Book C
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Book C
1891

BOOK 1891

FIELD NOTES

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	AS SURVEYED John F. Hesse	, United States Deput	
nder his Contra	AS SURVEYED, John F. Hesse ct No. 125 , dated Ja	, United States Deput	, †90
nder his Contra	AS SURVEYED John F. Hesse	, United States Deput	, †90
nder his Contra	AS SURVEYED, John F. Hosse ct No. 125 , dated Ja d April 7, 1905.	, United States Deput	, †90
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NAMES AND DUTIES OF ASSISTANTS.

		·····	OALWARD MER.		
	в. м. н у с	le	Chainman.		
	Juan Nune) Z	Moundman.		
	L. G. Sm	ith	Flagman.		
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6151	•				

PRELIMINARY OATHS OF ASSISTANTS.

BOOK 1891

$_{ m WE,}$ W. W. Oliver	and B. M. Hyde
	xecute the duties of chainmen; that we will level the
•	ally pins, either by sticking or dropping the same; that
-	
	ets, 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 subdivisional lines of Tp. 16	S. Rg. 19 E.
	1) W. Oliver, Chainman.
	M. Chainman.
	B. M. Hyde , Chainman.
· · · · · · · · · · · · · · · · · · ·	, Oncommun.
Subscribed and sworn to before me this7th.	
day of, 190 5	S 00 00 11
	John H. Hesse U. S. Deputy surveyo
東東京東京 W SEAL (W	
	U. S. Deputy Surveyo
WE, Juan Nunez	andand
	rform the duties of moundmen in the establishment
•	to the best of our skill and ability, in the survey of
of corners, according to the instructions given us,	to the best of our skill and ability, in the survey of
the subdivisional lines of Tp. 16	S. Rg. 19 E.
	1 92 red Wandward
	Juan Fried, Moundman
	, Moundman.
	,
Subscribed and sworn to before me this 7th.	.)
day of April , 190 5.	
, , , , , , , , , , , , , , , , , , ,	John 4. Hesse
SEAL (
	U. S. Deputy Surveyor.
**	and .
	and the data of armon in the establishment of armons
• -	m 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
	4
	, Axman.
	, Axman.
	,
Subscribed and sworn to before me this	
day of, 190	
day of, 100	

(*) SEAL (*) ***********************************	
I,	do solemnly swear that I will well and truly
	ons given me, to the best of my skill and ability, in the
survey of the subdivisional lines of	
	To Sweeth
	Little , Flagman.
Subscribed and sworn to before me this7th.	
Subscribed and sworn to before me this	
Subscribed and sworn to before me this	
•	
•	

No notary available without loss of time and great expense.

BOOK 1891

Book No 1891

INDEX DIAGRAM.

L			hip 1	6 Sou	th	·····•	Rang	ge 19	East	,	***************************************	
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Meanders Page.

Survey commenced April #, 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 observationsmade during a. m. and p. m. hours, with a meridian determined by observations on Polaris, I proceed as follows:

At the cor. of Tps. 16 and 17 S. Rgs. 19 and 20 E. latitude 31° 59' 04" N., longitude 110° 20' 55" W., at 6h. 18. 72 m. p. m. by my watch, which has correct 1. m. t., I observe Polaris at western 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. April 7, 1905: At 7 h. 30 m. a. m. i.m.t., I lay off the azimuth of Polaris, 1° 25' to the East, and mark the meridian April 8: thus determined, by cutting a small groove in a stone

firmly set in the ground 5 chs. N. of my station.

At 8 h. 00 m. a.m. l.m.t., I set off 31° 59' N. 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 determined by the Polaris observation.

The magnetic bearing of the true meridian, at 8 h. 30 m. a. m., is N.12° 45' W.; the angle thus determined gives the mag. dec'l. 12° 45' E.

At 3h. 00. p.m. 1.m.t., I set off 31° 59' N. on the lat. arc; 7° 14' N. 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 determined 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 instru ment are satisfactory.

April 8, 1905.

April 9, 1905; The cor. of Tps. 16 and 17 S. Rgs. 19 and 20 E. is a stake nearly obliterated, and witnessed by one bearing tree, the others having been destroyed, therefore I re-establish this cor. as follows: set a limestone 18x14x6 ins., 12 ins. in the ground for cor. of Tps. 16 and 17 S. Rgs. 19 and 20 E., marked with 6 notches on each edge; from which set

A mesquite 4 ins. diam. brs. N. 67 1/2° R. 199 lks.

dist. marked Tl6SR20ES31BT.

A mesquite 4 ins, diam. bears S. 17 1/2° E. 86 lks. dist. marked TIESR20ES6BT.

A mesquite 6 ins. diam. bears S. 41 1/2° W. 135 1ks. dist. marked T17SR19ES1BT.

A mesquite 4 ins. diam. bears N. 26° W. 1841ks. dist. marked Tl6SR19ES36BT.

As these bearing trees are not very large I.also dig As these bearing trees are not very large 1.also dispits 24x24x12 ins., on each line, N., E., and W., 4 ft. and S. of stone 8 ft. dist.; and raise a mound of earth 5 ft. base, 2 1/2 ft. high. S. of cor. At this cor. I set off si 59 N. on the lat. arc; 70 50 W. on the decl. arc; and at 7h. 00m. a.m. 1.m.t. determine a meridian with the solar; preliminary to

Resurvey of the south boundary of Tp. 16 S. Rg. 19 E.

commencing the subdivision of Tp. 16 S. Rg. 19 E., I run west on a blank line, on the south boundary of sec. 36; at 40.02 I find a trace of the 1 sec. cor. and at 80.01 a trace of the cor. of secs. 1, 2, 35, and 36; therefore I continue my line west, and find all of the At 5 miles 78.60 chs., cors. nearly obliterated. Intersect west boundary of township 34 1ks. S. of the cor. of Tps. 16 and 17 S. Rgs. 18and 19 E. april 9, 1905.

April 10; At 7h. 00m. a.m. l.m.t., I set off 31° 59'N. on the lat. arc; 7° 52'/N. on the decl. arc; and determine a meridian with the solar at the cor. of Tps. 16 and 17 S. Rgs. 19 and 20 E.

Thence I run

west bet. secs. 1 and 36.

Over rolling land through dense mesquite brush. Cross wire fence bears N. 79° 15' W. and S. 79° 15' E. Cross telegraph line bears N. 79° 15' W. and S. 79° 15' E. Cross S. P. R. R. bears N. 79° 15' W. and S. 79° 15' E. Cross telegraph line bears N. 79° 15' W. and S. 79° 15. E. Cross wire fence bears N. 79° 15' W. and S. 79° 15. E.

Cross wash 25 lks. wide, course N. E. I find a trace of the 4 sec. cor. and set, in the same place, a quartz stone 18x 6 x 5 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face; from which a mesquite 4 ins. dism. bears N. 57 3/4° E. 98 lks. dist. marked $\frac{1}{4}$ S 5 6 B T

A mesquite 6 ins. dism. bears S. 1 1/2° E. 121 lks. dist. marked 1 S 1 B T.
A point 12 lks. S. of a trace of the cor. of secs. 1,

35 and 36. I destroy all traces of the old cor. and in the same place set a granite stone 18 x 10 x 10 ins. 12 ins. in the ground for cor. of secs. 1, 2, 35, and 36 marked with 5 notches on W. and 1 notch on west edges; from which

A mesquite 8ins. diam, bears N. 82 3/4° E. 213 lks. dist. marked TIESR19ES36BT.

A mesquite 4 ins. diam. bears 8. 35° E. 114 lks. dist. marked T17SR19ES1BT.

A mesquite 4 ins. diem. bears S. 84 1/4° W. 326 lks. dist. marked T175R19ESSBT.

A mesquite 4 ins. dimm. bears N. 5° W. 146 lks. dist. marked Tl6SR19ES35BT.

The course of this half mile is N. 89° 50' W. and the distance 39,99 chs.

Land, rolling.

soil, gravelly; 2nd. rate.

No timber.

Undergrowth, mesquite.

Land covered with dense undergrowth 80. Ol chains.

west bet. secs. 2 and 35. Over rolling land through dense mesquite brush. cross wash 25 lks. tde course N. A point 12 lks. S. of a trace of the 2 sec. cor. I destroy

all traces of the cor. and set, in the same place, a granite 18 x 8x 6 ins. 12 ins. in the ground for \$\frac{1}{2}\$ sec. cor. marked \$\frac{1}{2}\$ on N. face; dig pits 18 x 18 x 12 ins. E. and W. of stone, \$ ft. dist. and raise a mound of earth \$1/2 ft. base 1 1/2 ft. high, N. of cor.

The course of this half mile is N. 89° 50' W. and

the distance 40.02 chains.

Thence West from 1 sec. cor. cross wash 30 lks. wide course N. cross wash 30 lks. wide bourse N. 12.70

23. 25 Cross wash 50 lks. wide course N. E.
40.00 A point 10 lks. S. of a trace of the cor. of secs. 2, 5, 3
54, and 55. I destroy all traces of the old cor. and in the same place, set a granite stone 18 x 8 x 6 ins. 12

BOOK 1891

T

2.00

6.75 10.40

14.00

16.00 37.75 40.08

17.60 40.02

7.00

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Resurvey of the South Boundary of Tp. 16 S. Rg. 19 E.
                  ins. in the ground for cor. of secs. 2, 3, 34, and 35
                 marked with 4 notches on W. and 2 notches on E. edges;
                  from which
                 A mesquite 6 ins. dimm. bears S. 54 1/2° E. 401 lks. dist marked TISER19ES2BT.

No other trees available. Dig pits 18 x 18 x 12 ins.
                  in each sec. 5 1/2 ft, dist; and raise a mound of
                 earth 4 ft. base, 2 ft. high, W. of cor.
The course of this half mile is N. 89° 51' W. and the
                  distance is 40.00 chains
                 Land, nearly level, rolling.
                 Soil, loamy; lst. rate, we tember. Undergrowth, mesquite.
                 Land covered with dense undergrowth 80. 02 chains.
                 West bet. secs. 3 and 34,
                 appending over rolling foothills.
                 Cross wash, 100 lks. wide, course N. wind a trace of $\frac{1}{4}$ sec. cor. and in the same place,
 22.00
 40.00
                 set a granite stone 16 x 8x 5 ins. 11 ins. in the 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 stone 3 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high
                 N. of cor.
   51.50
                 Cross wash 50 lks. wide course N.
                 Find a trace of the cor. of seds. 3, 4, 35, and 34,
  80.03
                 and destroy all traces of the old cor. and, in the same place, set a granite 18 x 6 x 6 ins. 12 ins. in the
                ground, for cer. of secs. 3, 4, 35, and 34, marked with 5 notches on E. and W. edges; dig pits 18 x 18 x 12 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, mountainous,
               Woll, rocky and sandy: 2nd. and 4th. rate.
                 Mountainous land 80.03 chains.
                West bet. secs. 4 and 58.
                             www.over rolling foothills.
21.00
                 Cross wash 75 lks. wide course N.
                Cross wire fence hears N. E. and S. W.

Cross S.P.R.R. sourse N.89°K. and S.89° W.

I find a trace of the 1 sec. cor. I destroy all traces of the old cor. and, in the same place, set a granite stone 18x 6 x 6 ins. 12 ins. in the ground for 1 sec.
24.85
31.50
40. 00
    stone 18x 6 x 6 ins. 12 ins. in the ground for 1 sec.

cor. marked 1 on N. face; dig pits 18 x 18 x 12 ins.

E. and W. of stone 3 ft. dist. and raise a mound of
earth 3 1/2 ft. base 1 1/2 ft. high, N. of cor.

Cross telegraph line, N.89° E. and S. 89° W.

I find a trace of the cor. of secs. 4, 5, 32 and 33.

I destroy all1 traces of the cld cor. and, in the same
place, set granite 16 x 8x 5 ins. 11 ins. in the ground
for cor. of secs. 4, 5, 32, and 33 marked with 4 notch
es on E. and 2 notches cor.
  73.50
  80.00
                 es on E. and 2 notches on W. edges; dig pits 18 x 18 x
                18 ins. in each sec. 5 1/2 ft. dist; and raise a mound of earth 4 ft. base 2 ft. high W. of cor.
18 4 9 BI
                Land mountainous.
                Soil, sandy, 2nd. rate.
                No timber.
                Mountainous land 80.00 chains.
                West bet. secs. 5 and 32.
  0.75
                 According over rolling foothills.
                cross telegraph line bears S.99E. and N.89° W.
                Cross wire fence, bears N.E. and S.W.
  1.15
```

Cross gully N. E. and S. W. 50 lks. wide.

gross S. P. R. R. bears N. W. and S. E.

cross wire fence N. W. and S. E.

1.65

2.25

17.40

78.60

Resurvey of the South Boundary of Tp. 16 S. Rg. 19 E.

Cross S. P. R. R. bears N. H. and S. W. 29.50 **51.00** Cross telegraph lim bears N. E. and S. W. Cross wire fence bears N. E. and S. W. 38.75 I find a trace of the 2 sec. cor. I destroy all 40.04 traces of the cor. and, in the same place, set a granite 18x 7 x 5 ins. 12 ins. in the ground, for \(\frac{1}{2} \) sec. cor. marked \(\frac{1}{2} \) on N. face; and dig pits 18 x 18 x 12 ins. E. and W. of stone, 5 ft. dist. and raise a mound of earth 5 1/2 ft. base, 1 1/2 ft. high, N. of cor. Cross fence bears N. and S. 41.90 Cross fence bears N. E. and S. W. I find a trace of the cor. of secs. 5, 6, 31, and 32. 43. 25 80.07 I destroy all traces of the old cor. and, in the same place, set a granite stone 18 x 12 x 6 ins. 12 ins in the ground, for cor. of secs. 5, 6, 31, and 32, marked with 5 notches on E. and 1 notch on W. edges; dig pits 18 x 18x 12 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, mountainous. Soil, sandy, 2nd. rate. No timber. Mountainous land 80.07 chains. west bet. secs. 6 and 31. Assending over rolling foothills. Cross road bears N. and S. **58.50** 40.00

I find a trace of the 1 sec. cor. I destroy all traces of the old cor. and, in the same place set a granite 18 x 8x 4 ins. 12 ins. in the ground for 1 sec. cor. marked 1 on W. face; dig pits 18 x 18 x 12 ins. E. and W. of stone; 3 ft. dist; and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high W. of cor. A point 5 lks. South of a trace of the cor. of Tps. 16 and 17 S. Rgs. 18 and 19 E. I destroy all traces of the old cor. and, in the same place, set a flint stone 16 x 6 x 6 ins., ll ins. in the ground for cor. of Tps. 16 and 17 S. Rgs. 18 and 19 E. marked with 6 mutches on each edge; dig pits 24 x 24 x 12 ins. on each line N. E., and W., afft. and S. of stone 8 ft. dist.; and raise a mound of earth 5 ft. base, 2 1/2 ft. high, S. of cor. The course of the half mile id N.89° 20'W. and the distance is 58.60 chains. Land, rolling foothills.

Soil sandy, 2nd. rate. No timber. Mountainous land, 40.00 chains.

April 10, 1905.

1

April 11: At 7h. 00m. a. m. l.m.t. I set off 31° 59. N. on the lat. arc; 8° law N. on the decl. arc; and determine a meridian with the solar at the cor. of Tps. 16 and 17 S. Rgs. 18and 19 E. Thence I run North bet. secs. 31 and 36 Over rolling land. A point 3 lks. W. of a trace of the 1 sec. cer. I destroy all traces of the cor. and, in the same place, set a granite stone 16 x 8 x 4 ins. 11 ins. in the ground 40.06 ground, for 1 sec. cor. marked 1 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 thes half mile is N. 0° 5' E. and the distance 40.06 chains.

Thence I continue my line North.

A point 7 lks. W. of a trace of the cor. of secs. 25, x 30, 31, and 36. I destroy all traces of the old cor. and, in the same place, set a granite 18 x 6 x 4 ins. 80.08 12 ing, in the ground for cor, of secs. 25, 30, 31 and 56, marked with 1 notch on S. and 5 notches on N. edges dig pits 18x 18 x 12 ins. in each sec. 5 1/2 ft. dist. and raise a mound of earth 4 ft. base 2 ft high, w. of cer. The course of this half mile is N. Q° 3' A. and tho distance is 40.02 chains. Land rolling. Soil, loamy 1st. rate. No timber. North bet. secs. 25 and 30. Over rolling land. A point 2/ks. west of the f sec. cor. I find a trace of the f sec. cor. and destroy it and, in the same place set a granite lex 7 x 6 ins. 12 ins. in the groun for f sec. cor. marked f on w. face; dig pits 18 x 18 x 12 ins. N. and S. of stone 3 ft. dist.; and raise a meund of earth 3 1/2 ft. base 1 1/2ft. high, w. of 40.05. COT The course of thes half mile is N. . 02 . and the distance 40.03 chains. Thence I continue my line N. A point 7 lks. W. of a trace of the cor. of secs. 19, 24, 25 and 30. I destroy all traces of the old 80.03 cor. and, in the same place, set a Quartz stone 18 \times 6 \times 5 ins. 12ins. 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 dig pits 18 x 18 x 12 ins. in each sec. 5 1/2 ft. dist.; and raise a mound of earth 4 ft. base, 2 ft. high, w. of cor.
The course of this half mile is N.0° 04' #. and the distance 40.00 chains. Land, rolling. Soil, sandy; 2nd. rate. No timber. North bet. secs. 19 and 24. Over rolling land. 39.96

A point 1 lk. W. of a trace of the \(\frac{1}{2}\) sec. cor. I destricted all traces of the old cor. and , in the same place set a quartz 20 x 6 x 6 ins. 15 ins in the ground for \(\frac{1}{2}\) sec. cor. marked \(\frac{1}{2}\) on W. face; dig pits 18 x 18 x 12 ins. N. and S. of stone, 5 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 N.O° 01' &. and the distance 30.06 mhains.

the tolling foot hills.

```
Resurvey of the West Boundary of Tp. 16 S. Rg. 19 E.
          67088 road, bears E. and W.
59.90
          A point 3 lks. W. of a trace of the cor. of secs. 15, 18, 19, and 24. I destroy all traces of the eld cos.
80.01
          and, in the same place, set a granite 18 x 7 x 4 ins. 12 ins. in the ground, for cor. of secs. 13, 18, 19,
          and 24; marked with 5 notches on S. and N. edges;
          dig pits 18 x 18x 12 ins. in each sec,, 5 1/2 ft. dist; and raise a mound of earth 4 ft. base 2 ft. high, W.
          of cor.
          The course of this half mile is N.0° 03' A. and the
          distance 40.05 chains.
          Land, rolling.
          Soil, sandy; 2nd. rate
          No timber.
          North bet. secs. 13 and 18.
          Over rolling mountainous land.
          Cross wash 551ks. wide course N. E.
 13.50
          cross wash 30 lks. wide course S. E.
 34.50
          A point 7 lks. W. of & sec. cor. a granite stone, with
 35.12
          marks nearly obliterated, lying on top of ground. I re-mark a granite stone 20 x 8 x 6 ins. with 1 on W. face; and set the stone 15 ins. in the ground for 1
          sec. cor.; 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. 06 H. and the
          distance is 35.12, chains.
          Thence I continue my lineworth.
          cross wash 20 lks. wide course S. E.
 54.00
          cross wash 10 lks. wide course S. E.
 58.75
          Cross wash 15 lks. wide course S. E. A point 15 lks. west of the cor. of secs. %, 12, 15, and 18, a granite stone set loosely in the ground;
 66.50
 74.60
          with marks still discornable, and the remains of a
          mound of stone N. of the stone. I destroy the old cor.
          and in the same place, set a granite 20 x 6 x 6 ins. in the ground, for dor, of secs. 7, 12, 18, and
          18; marked with 4 notches on S. and 2 notehes on N. edges; and raise a mound of stome 2 ft. base, 1 1/2
          ft. high, w. of cor. Pits impracticable,
          The course of this half mile is N.O° OCT and the dis
          tance 39.48 chains.
          Land mountainous.
          Soil rocky; 4th. rate.
          No timber.
          Mountainous land, 74.60 chains.

At this cor. I set off 8° 17 1/2' N. on the dec'l.
          arc; and observe the sun on the meridian at moon; the
          resulting latitude is 52° 2 1/2' N.
          North bet. secs. 7 and 13.
           Ascending over rough mountainous land.
  1.90
          cross wash 81ks. wide course S. E.
          cross wash 20 lks. wide course S. E.
  12.65
          Cross wash 15 lks. wide course S. W. A point 2 lks. E. of \frac{1}{4} sec. cor. a granite stone with m
  32.90
  39.56
          marks nearly obliterated and the remains of a mound of
           stone N. of the cor. I destroy the old cor. and, in the same place, set a a granite stone 18 x $ x 6 fms. 12 ins. in the ground, for $ sec. cor. marked $ on W. face
           and raise a mound of stone 2 ft. base, 1 1/2 2. high,
           w. of cor. Pits impracticable.
           The course of this half mile is N. O. 020 W. and the
           distance 39.56 chains.
           Thence I continue my line North.
```

of the cor. I destroy all traces lof the old cor. and, in the same place set a granite stone $18 \times 6 \times 6$ ins. 12 ins. in the ground for cor. of secs. 1, 8, 7, and 12; marked with 5 notches on S. and 1 notch on N. 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. 0° 09' E. and the distance 39.55 chains. Land, mountainous. Soil, rocky; 4th. rate, No timber. Mountainous land, 78.11chains.

3.29

North bet. secs 1 and 6. Top of mountain bears N. E. and S. W. and descend rough N. E. slope of mountain.

33.54 **38.**66 Cross wash 20 lks. wide course N. E. A point 81ks. W. of 1 sec. cor. a post with marks almost obliterated, lying on a mound of stone. I destroy the old cor. and set, in the same place, a granite stone 24 x 8 x 6 ins. 18 ins in the ground, for 1 sec. cor. marked 1 on W. face; and raise a mound of stone 2 ft. base 1 1/2 ft. high, W. of cor. Pits impracticable. From which

An oak 8 ins. diam. bears S. 37 1/2° W. 108 lks. dist. marked 1 S 1 B T we ther wees within limits. The course of this line is N.0° 07'E. and the distance and the distance 38.66 chains.

Thence I run North from the 1 sec. cor.

52.63

0.65 lksCross wash 15 lks. wide course N. E. 12.78 | Cross wash 10 lks. wide course N. E.

Cross Picheco Creek, running stream, 50 lks. wide,

course S. E.

47.85

Intersect 3rd. Standard Parallel South, 7,66 chains W. of the Standard Cor. of Tps. 15 S. Rgs. 18 and 19 R. and set a granite stone 26 x 8 x 6 ins. 21 ins. in the ground for closing cor. of Tps.16 S. Rgs. 18 and 19 K., marked with 6 grooves on S. E. and W. faces; and C.C. on the S. face; and raise a mound of stone 2 ft. b base, 1 1/2 ft. high, S. of cor. Pits impracticable. The course of this mile is North and the distance is 47.85 chains. DILIGENT SEARCH DID NOT MEVERL BLD. GLOSING COMMENTS, mountainous.

Soil, rocky; 4th. rate.

No timber.

Mountainous land 86.49 chains.

April 11, 1905.

Resurvey of the East Boundary of Tp. 16 S. Rg. 19 R. April 12; At 7h. 00' a.m. l.m.t. I set off 31° 59'N. on the lat. arc; 8° 56'(N. on the dec'l. arc; and determine a meridian with the solar at the cor. of Tps. 16 and 17 S. Rgs. 19 and 20 E. This line coincides with the meridian established April 8, by the Polaris observation from this cor. From this cor. I now run North bet. secs. 31 and 36. Over rolling land through dense mesquite brush. Cross wash 20 lks. wide course N. E. A point 82 lks. east of the 1 sec. cor. nearly oblit-36.00 39.90 erated. I destroy all traces of the old cor. and, in the same place, set a granite stone 18 x 7 x 4 ins. 12 ins. in the ground, for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face; from which A mesquite 8 ins. diam. bears S.70 1/2° W. 151 1ks. dist. marked 1 S 5 6 B T. No other tree available. 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 N. 0 1 w. and the distance 39.90 chains: Thence I continue my line North.

Cross wash 25 lks. wide course N. E.

A point 8 lks. east of a trace of the cor. of secs.

25, 30, 31, and 36. I destroy all traces of the old cor. and, in the same place, set a granite 18 x 7 x 4 45.75 79.90 ins. 12 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; dig pits 18 x 18 x 12 ins. in each sec. 5 1/2 ft. dist.; and raise a mound of earth 4 ft. base, 2 ft high, W. of cor. The course of this half mile is N. 0° 21' E. and the distance 40.00 chains. Land, rolling. Soil, sandy; 2nd. rate. Worthmber. Undergrowth, mesquite and greasewood. Land covered with dense undergrowth, 79.90 chains. North bet. secs. 25 and 30. Over rolling land through dense brush. Over broken land. 21.00 Cross wash 20 lks. wide course N. E. 22.00 Cross wash, 30 lks. wide, course N. 24.00 27.50 Cross dry creek 100 lks. wide course N. E. A point 64 lks. east of a trace of the 4 sec. cor. destroy all traces of the old cor. and, in the same place, set a limie stone 20 x 8 x 4 ins. 15 ins. in the ground for 7 sec. cor. marked 2 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. high, w. of cor.
The course of this half mile is N.0° 55' w. and the distance is 40.02. Thence I continue my line North. Cross dry creek 60 lks. wide, course E.

A point 22 lks. east of a trace of the cor. of secs.

19, 24, 25 and 50. I destroy all traces of the old cor. and, in the same place, set a lime stone 20 x 6 x 4 ins. 15 ins. in the ground for cor. of secs. 19, 24, 55.50 79.96 25, and 30, marked with 2 notches on S. and 4 notches on N. edges; dig pits 18 x 18 x 12 ins. in each sec. 5 1/2 ft. dist.; and raise a mound of earth 4 ft. base 2 ft. high, W. of cor. The course of this half male is N.0° 36' E. and the distance is 39.94 chains. Land, rolling and broken. Soil, sandy; 2nd. rate.

No timber.

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Resurvey of the East Boundary of Tp. 16 S. Rg. 19 E.
     Undergrawth, mesquite and greasewood.

Mountainous land and land covered with dense under-
     growth 79.96 chains.
     April 12; at this cor. I set off 8° 39 1/2' N. on the
     decl. arc; and observe the sun on the meridian at neon
      the resulting latitude is 32°01'NV
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39.92

North bet. secs. 19 and 24.

Over broken land through heavy brush.

A point 90 lks. E. of a trace of the 1 sec. cor. I

destroy all traces of the old cor. and, in the same ground, for 1 sec. cor. marked 1 on W. face; from which

A mesquite 9 ins. diam. bears west 126 lks: dist. marked \(\frac{1}{4} \) S 2 \(\frac{1}{4} \) B T . No other tree available. 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 N.1° w. and the distance is 50.22 chains.

Thence I continue my line North

44.50 48.50 80:01

Cross dry creek 40 lks. wide course E.

Cross dry creek 25 lks. wide course S. E.

A point 68 lks. east of a trace of the cor. of secs. 15

18, 19, and 24. I.destroy all traces of the old cor.

and, in the same place, set a lime 18 x 7 x 4 ins.

12 ins in the ground for cor. of secs. 13, 18, 19, and 24, marked with 3 notches on N. and S. edges; dig pits 18 x 18 x 12 ins. in each sec.; and raise a mound of earth 4 ft. base, 2 ft. high. W. of cor. The course of this half mile is N. 0° 19' E. and the

distance is 40.09 chains.

Land, mountainous. Soil, sandy; 2nd. rate. No timber.

Undergrowth, greasewood and mesquite.
Mountainous land and land covered with dense undergrowth, 80.01 chains.

At the cor. of Tps. 16 and 17 S. Rgs. 19 and 20 E. I set off 31° 59' N. on the lat. arc; 8° 45' N. on the decl. arc; and at 5h. 00' p.m. 1. m. t., determine a meridian with the solar, and shaine coincides with the meridian established April 8 th. by the Polaris observation.

April 12, 1905.

April 13: At 7h. 00m. a.m. I.m.t. I set off 32° 02° W. on the lat. arc; 8° 58' N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 13, 18, 19 and 24.

Thence I run

North bet. secs. 13 and 18.

Over rolling land through dense mesquite and greasewood

40.01

brush.
A point 65 lks. E, of a trace of the † sec. cer. I
destroy all traces of the old cer. and, in the same
place, set a lime stome 18 x 14 x 6 ins. 12 ins. in the
ground for † sec. cor. marked † on w. face; from which
A mesquite 8 ins. diam. bears N. 58° 15' w. 99
lks. dist. marked † S 1 S B T
No other tree available. Raise a mound of stame 2 ft.
base 1 1/2 ft. high, w. of cor. Pits impractigable.
The course of this half mile is N.0° 56' w. and the
distance is 40.01.

distance is 40.01.

Thence I continue my line North over broken land.

44.40 cross wash 15 lks. wide course N. E. 48.00 cross wash 10 lks. wide course N. E. 51.35 cross wash 15 lks. wide course N. E.

57.00 cross dry creek 45 lks. wide course N. E.

Cross dry creek 60 lks. wide course N. E. 60.00

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Resurvey of the East Boundary of Tp. 16 S. Rg. 19 E.
Chains.
              Cross wash 15 lks. wide course N. E. Cross wash 10 lks. wide course N. E.
67.30
 71.00
               Over level land through dense brush.
 78.00
               A point 3 lks. E. of a trace of the cor. of secs. 7,
 80.02
              12, 13; and 18. I destroy all traces of the old cor.
and; in the same place, set a lime stone 20 x 6 x 4 ins
15 ins. in the ground for cor. of secs. 7, 12, 13, and
18; marked with 4 notches on S. and 2 notches on N.
edges; dig pits 18 x 18 x 12 ins. in each sec. 5 1/2
              ft. dist.; and raise a mound of capth 4 ft. base 2 ft.
              high, W. of cor.
              The course of this half mile is N. 0° 53' E. and the
              distance is 40.01 chains.
              Land, level rolling and broken.
              Soil, sandy; 2nd. and 4th. rate.
              No timber.
             Undergrowth, greasewood and mesquite.
Mountainous land or land covered with dense undergrowth
              80.02 chains.
              Worth bet. secs. 7 and 12 Over level land through dense mesquite brush.
              Cross read bears E. and W.
 18.35
 19.80
              Cross fence bears E. and W.
             A point 26 lks. E. of a trace of the \(\frac{1}{4}\) sec. cor. I destroy all traces of the old cor. and, in the same place, set a granite 18 x 10 x 5 ins. 12 ins. in the ground for \(\frac{1}{4}\) sec. cor. marked \(\frac{1}{4}\) on W. face; dig pits 18 x 18 x 12 ins. N. and S. of stone 3 ft. dist.;
 59.80
              and raise a mound of sarth 3 1/2 ft. base, 1 1/2 ft.
             high, W. of cor.
              The course of this half mile is N.0° 22' W. and the
              distance id 39.20 chains.
              Thence I continue my line North.
             Cross fence bears E. and W.
 59.60
             Along W. slope of hills. ascending
60.35
62.00
            A point 66 lks. E. of a trace of the cor. of secs. 1
79.34
             6, 7, and 12. I destroy all traces of the old cor.
             and, in the same place, seta granite stone 18 \times 8 \times
             6 ins. 12 ins. in the ground for cor. of secs. 6 and 7
             marked with 5 notches on S. and 1 notch on N. 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. 0° 25' W. and the
             distance is 39.54 chains.
             Land, level and hilly.
             Soil, sandy; lst. rate.
             No timber.
             Undergrowth, mesquite.
Mountainous land and land covered with dense under-
             growth 79.34 chains.
             April 13: At this cor I set off 9° 01 1/2' N. on the
             decl. arc; and observe the sun on the meridian at noon
             the resulting latitude is 32° 03 1/2' N.
             North bet. secs. 1 and 6.
Along W. slope of hills, through dense brush. descending
            Cross road bears N. E. and S. W. and over level land.
Cross road bears N. E. and S. W.
Cross Picheco Creek, dry, at forks, course E., one
17.90
19.00
27.00
             branch bears N. W. and the other S. W.
$5.75
             Cross fence bears E. and W.
            A trace of the $\frac{1}{4}$ sec. cor. I destroy all traces of the old cor. and set a granite $18 \times 8 \times 6$ ins. $12$ ins. in the ground, for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on $\times$. face; dig pits $18 \times 12$ ins. $\times$. and $\frac{1}{2}$. of stone $3$ ft. dist
40.00
             and raise a mound of earth 3 1/2 ft. base 1 1/2 ft.
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high W. of cor.

70.00 80. 22 80. 24

Resurvey of the East boundary of Tp. 16 S. Rg. 19 E.

Ruins of adobe house bear E. 2.50 chains dist.

Cross fence bears E. and W. Auth
Intersect 3rd. Standard Parallelal4.52 chains W. of
the Standard Cor. of Tps. 15 N. Rgs. 19 and 20 E.
and set a granite stone 18 x 8 x 6 ins. 12 ins. in
the ground for. closing cor. of Tps. 16 S. Rgs. 19 and
20 E., marked CCon S.; with 6 grooves on S., E., and W.
faces; dig pits 30 x 24 x 12 ins. crosswise on each
line, E., and W., 4 ft. and S. of stone, 8 ft. dist.:;
and raise a mound of earth 5 ft. base, 2 1/2 ft. high,
S. of cor. DINGERT SEARCH ON NOT REVEAL OF CLOSING COT.
Land, level and mountainous.
Soil, sandy; lst. rate.
No timber.
Undergrowth, mesquite.
Mountainous land or land covered with dense undergrowth
80.34 chains.

April 13, 1905.

) V:

180

9i

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The Standard Cor. of Tps. 15 S. Rgs. 19 and 20 E. is a post 10 ins. above ground, 4 ins. sq. with the marks almost illegible. I re-establish this cor. as follows set a granite stone, in the same place, 18 x 12 x 6 ins. 12 ins. in the ground, for standard cor. of Tps. 15 S. Rgs. 19 and 20 E., marked S.C on N.; with 6

grooves on N., E., and W. faces; from which A mesquite 6 ins. diam. bears N. 43 1/4° E. 95 lks. dist., marked SCT15ER20ES31BT.
A mesquite 6 ins. diam. bears N. 78° 10' W. 174 lk lks. dist., marked SCT15SR19ES36BT.

I destroy the old cor.
April 14: At this cor. I set off 32° 04' N. on the lat.
arc; 9° 19 1/2' N. on the decl. arc; and determine. a meridian with the solar,

Thence I run West on a blank line and find that no part of the Standard is in alinement, and many of the cors. are gone.

At 6 miles chains I find the remains of the

Standard cor. of Tps.15 S. Rgs. 18 and 19 E. 13 lks.

North. As, the Township north of this line has not been

subdivided I re-establish this line upon a right line connecting the two standard township cors. The falling answers to a correction of 0°01' S.

per mile counting from the N. W. cor. of the township therefore I run S. 89° 59'E.

April 14, 1905.

April 15: At 7h. 00m. a.m. l.m.t. I set off 32° 04'N. on the lat. arc; 9° 41' N. on the decl. arc; and determine a meridian with the solar at the cor. of Tps. 15 S. Rgs. 18 and 19 E., which I re-establish in the same place as follows: Set a granite stone 20x 12 x6 ins. 12 ins. in the ground for standard cor. of Tps. 15 S. Rgs. 18 and 19 Er marked S C on N.; with 6 grooves on N., R., and W. faces; and raise a mound of stone 3 ft. base 2.ft. high N. of cor. pits impracticable. I destroy all traces of the old cor.

Thence I run S. 89° 59' E. on S. bdy. sec. 31. Ascend rough W. slope of mountain.
Top of ridge, bears N. and S. and descend. Cross creek, 5 lks. wide course S. and ascend. A cut slope.
Difference between measurements of 45.05 chains, by
two sets of chainmen is 20 lks; position of middle peint By 1st. set 43.05 chs.
By 2nd. set 43.55 chs.; the mean of which is

Set a granite stone 24 x 10 x 6 ins. 18 ins. in the ground for standard 1 sec. cor., marked S C 1 on N. face; and raise a mound of stone 2 ft. base 1 1/2 ft. high, N. and cor. Pits impracticable.
Cross wash 10 lks. wide, course S. along peut plopes
Difference between measurements of course shains, by two sets of chairmen is 18 lks; position of middle point

By 1st. set 33,74.
By 2nd. set 86.86 chs.; the mean of which is Set a granite stone 26 x 12 x 5 ins. 21 ins. in the ground for standard cor. of secs. 31 and 32 marked S C on N.; with 5 grooves 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.

In running this line I destroy all traces of the old 1 sec. sor. and sec. cor. Land, mountainous, Soil, rocky; 4th. rate. Mountainous land 80.85 chains. No timber

10.45 16.50

43.45 46.95

65.70

83.45 86.95

/3

Resurvey	of	the	Third	Parallel.	South,	through	Rg.19	E.
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S.89° 59' E. on S. bdy. sec. 32. Along S. slope of rough mountains, ascending.
Difference between measurements of 40.00 chs., by two sets of chaimnen is 12 1ks; position of middle point By 1st. set 40.06 chs.
By 2nd. set 59.94 chs.; the mean of which is 40.00 The point for cor. falls on a granite rock in place 6 x 5 x 3 ft. above ground. I mark a cross x for exact point for standard 4 sec. cor. and S C 1 N. of cross; and raise a mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable.
I destroy the old 1 sec. cor. Top of ridge bears N. and S. and along S slope, descend-45.00 ing. Top of saddle, bears N. W. and S. E. and descend along 68.00 Difference between measurements of 80.00 chs., by two sets of chairmen is 16 lks; position of middle point By 1st. set 80.08 chs. By 2nd. set 79.92 chs.; the mean of which is The point for cor. falls on a granite rock in place 80.00 8 x 4 x 3 ft. above ground. I mark a cross x for exact point for standard cor. of secs. 32 and 33, and S C N. of cross; with 4 grooves W. and 2 grooves W. of cross; and raise a mound of stone 2 ft. base 1 1/2 ft. high, N. of cor. Pits impracticable. I destroy the old cor. Land, mountainous. Soil, rocky; 4th. rate. No timber. Mountainous land, 80.00 chains. 'April 15; At this cor. I ste of 9° 45 1/2' N. on the decl. arc; and observe the sun on the meridian at noon the resulting latitude is 52° 04' N. S. 89° 59' E. on S. bdy. sec. 33. Descending over rough N.E. slope of mountain. Difference between measurements of 40.00 chains by two sets of chairmen is 16 lks.; position of middle point By 1st. set 40.08 chs. By 2nd. set 39.92 chs.; the maen of which is The point for cor. falls on a granite rock in place 40.00 3 x 2 x 1 1/2 ft. above ground. I mark a cross x for exact point for standard 2 see, cor. and S C 2 N. of cross; and raise a mound of stone 2 ft. base 1 1/2 ft. high, N. of cor. Pits impracticable. I destroy the old cor. cross wash 30 lks. wide course S. E. and over broken 64.75 land. Cross same wash 30 lks wide course N. E. Difference between measurements of 80.00 chains by two 72.00 sets of chairmen is 12 lks.; position of middle point By 1st. set 80.06 chs. By 2nd, set 79.94 chs.; the mean of which is Set a granite stane 20 x 10 x 4 ins. 15 ins. in the 80.00 ground for standard cor. of secs. 35 and 34 marked S C on N.face; with 3 grooves on E. and W. faces; and raise a mound of stone 2 ft. base 1 1/2 ft. high, N. of cor. Pits impracticable. I destroy the old cor. Land, mountainous. soil, rocky; 4th. rate. No timber. Mountainous land 80.00 chains. April 15, 1905. April 16: At 7h. 00m. a.m. l.m.t. I set off 32° 04'N. on the lat. arc; 10° 02 1/2 VN. on the decl. arc; and determine a meridian with the solar at the standard cor, of secs, 33 and 34

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Thence I run
S. 89° 59' E. on S. bdy. sec. 34.
          Over broken land.
 8000
          Cross wash 30 lks. wide course 8. E.
 115000 Cross wash 40 lks. wide course N. E. 16. 75 Cross wash 50 lks. wide course S. E. 35. 50 Cross wash 20 lks. wide course S. E.
          Difference between measurements of 40.00 chs. by two
          sets of chairmen is 10 lks.; position of middle point
                by 1st. set 40.05 chs.
         By 2nd. set 39.95 chs.; the mean of which is
Set a granite stone 20 x 10 x 4 ins. 15 ins. in the
ground for standard 2 sec. cor. marked S C 2 on N. face
40.00
          and raise a mound of stone 2 ft. base 1 1/2 ft. high
          W. of cor. Pits impracticable.
         I destroy the old cor.
Cross wash 75 lks. wide course S. E.
Cross wash 30 lks. wide course S. E.
 55.00
 72.75
          Difference between measurements of 80.00 chs. by two
          sets of chairmen is 8 lks.; position of middle point
                By 1st. set 40.04 chs.
         By 2nd. set 39.96 chs.; the mean of which is set a granite stone 18 x 12 x 4 ins. 12 ins. in the
80.00
         ground for standard cor. of secs. 34 and 35, marked
         S C on N. face; with 2grooves on E. and 4 grooves on
         W. faces; and raise a mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable.
               I. destroy the old cor.
         Land, mountainous.
         Soil, rooky; 4th. rate.
         No timber.
         Mountainous land 80.00 chains.
         S. 89° 59' E. on S. bdy. sec. 35.
         Over broken land.
 7.00
         Cross wash 75 lks. wide course S. E.
 19.80
         Cross road bears N. W. and S. E.
 25.50
         Cross wash 20 lks. wide course S. E.
         Difference between measurements of 40.00 chs. by two
         sets of chairmen is 10 lks.; position of middle point
               By 1st. set 40.05 chs.
               By 2nd. set 39.95 chs.; the mean of which is
40.00
         Set a granite stone 24 x 12 x 6 ins. 18 ins in the
         ground for standard \frac{1}{4} sec. cor. marked S C \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.
               I destroy the old cor.
         Over level land through dense mesquite brush.
 45.00
 67.00
         Cross wash 8 lks. wide course S. E.
79.00
         Cross wash 15 lks. wide course S. E.
         Difference between measurements of 80.00 chs. by two
         sets of chainmen is 4 lks.; position of middle point
               By 1st. set 80.02 chs.
               By 2nd. set 79.98 chs.; the mean of which is
         Set a granite stone 18 x 12 x 4 ins. 12 ins, in the ground for standard cor. of secs. 35 and 36 marked
80.00
         S C on N. face; with 1 groove on E. and 5 grooves on
         W. faces; dig pits, 24 x 18 x 12 ins. crosswise on
         each line E. and W. 5 ft. and N. of stone 7 ft. dist.; and raise a mound of sarth 4 ft. base 2 ft. high, N. of
         cor.
               I destroy the old cor.
         Land, mountainous and level.
         Soil, rocky and sandy; 2nd. and 4th. rate.
         No timber.
         Undergrowth, mesquite.
         Mountainous land or land covered with dense undergrowth 80.00 chains.
         Aprill6: At this cor. I set off 10° 06' N. on the decl.
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Resurvey of the Third Standard Parallel S. through Rg 19 E.

- abadia	
	arc; and observe the sun on the meridian at noon, the resulting latitude is 32° 04' N. V
	- 000 rotm
	S.89° 59'E. on S. bdy. sec. 36.
0- 00	Over level land through dense mesquite brush.
25.00	Cross wash 15 lks. wide course S. E.
	Difference between measurements of 40.00 chs. by two
	sets of chairmen is 2 lks.; position of middle point
	By 1st. set 40.01 chs.
	By 2nd. set 39.99 chs.; the mean of which is
40.00	Set a granite stone 18x 12 x 4 ins. 12 ins. in the.
	ground for standard & sec. cor. marked & C & on N. face
1 1	from which
	A mesquite 12 ins. diam. bears N. 10 1/2° E.68
	lks. dist. marked S C 2 S 5 6 B T.
	I destroy the old cor.
63.90	Cross road bears N.E and S. W.
	Difference between measurements of 80.00 chs. by two
	sets of chainmen is 2 lks.; position of middle point
	By 1st. set 80.01 ohs.
	By 2nd. set 79.99 chs.; the mean of which is
80.00	The standard cor. of Tps. 15 S. Rgs. 19 and 20 E.
	Land level.
1.	Soil, sandy; lst. rate.
	No timber.
	Undergrowth, mesquite.
	Land covered with dense undergrowth, 80.00 chains.
	April 16, 1905.
1	

Survey commenced April 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. 35 and 36 on the S. bdy. of the Tp. latitude/31° 59' 04" N., longitude 110° 20' 53" W. at 5h.41.54m. a.m. by my watch which has correct 1.m.t., I observe Polaris at eastern elongation, in accordance with Manual of Instructuons, and mark a point in the line thus determined, on a peg driven

in the ground, 5 chs. N. of my station.

At 7h. 30m. a.m. l.m.t., I lay off the azimuth of Polaris, 1° 25" to the west, and mark the meridian thus determined, by cutting a small groove in a stone

set firmly in the ground 5 chs. N. of my station.

At 8h. 00m. a.m. l.m.t., I set off 31° 59' N.

on the lat. arc; 10° 24 1/2' N. on the decl. 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 magnetic bearing of the true meridian, at 8 h. 50 m. a.m., is N. 12° 45' W.; the angle thus determined gives the mag. decl. 12° 45' E.

At 4h. 00m. p.m. l.m.g., I set off 31° 59' N. on the lat. arc; 10° 31' N. on the decl. 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 a.m. and p. m. observation defines positions for meridians which coincide with the meridian established by the Polaris observation; therefore I conclude that the adjustments of the instru ment are satisfactory.

April 17, 1905.

I commence at the cor. of secs. 1, 2, 35, and 36 on the S. bdy. of the township

Thence I run N.0° 01' W., bet secs 35 and 36.

ding over rolling foothills through dense mesquite brush.

Cross fence bears E. and W. 14.50

15.00 Cross S.P.R.R. bears E. and W.

Cross telegraph line bears E. and W. Cross fence bears E. and W. 15.80

16.60

40.00

31.00

Cross wash 60 lks. wide course N. E.

Set a limestone 18 x 8 x 6 ins. 12 ins. in the ground

for 1 sec. cor. marked 1 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.

42.50

67.00

Cross wash 20 lks. wide course N. E. Cross wash 20 lks. wide course N. E. Set a granite stone 18 x 12 x 12 ins. 12 ins. in the 80.00 ground for cor. of secs. 25, 26, 35, and 36 marked with 1 notch on S. and E. edges; dig pits $18 \times 18 \times 12$ 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. pit

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34
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BOOK 1891 Subdivision of Tp. 16 S. Rg. 19 E.
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RELIES
             Land, mountainous.
             Soil, stony; 3rd. rate.
             No timber.
             Undergrowth, mesquite.
Mountainous kand or land covered with dense undergrowth
             80100 chains.
             S.89° 55' E. on a random line bet. secs. 25 and 36 Set. temp. 4 sec. cor. Intersect E. bdy. of Tp. 2 lks. S. of the cor. of secs.
40.00
79.90
             25, 30, 31 and 36. Thence I run
              N.89° 56'W. on a true line bet. secs. 25 and 36.
             and greasewood brush.
5.40 .
             Cross wash 10 lks. wide course N. E.
21.75
             Cross wash 20 lks. wide course N. R.
28.60
             Cross wash 25 lks. wide course N. E.
<del>89.9</del>5
39.96
             Set a granite stone 18x 8 x 4 ins. 12 ins. in the 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 stone 5 ft. dist. and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high,
             N. of cor.
52.00
             Cross wash 20 lks. wide course N. E. Cross gully 8 lks. wide course N. E.
79.00
             The cor.of secs. 25, 26, 55, and 36.
79.90
             Land, mountainous.
             Soil, rocky; 2nd. rate.
             No timber.
             Undergrowth, mesquite and greasewood.

Mountainous land or land covered with dense undergrowth
             79.90 chains.
             At this cor. I set off 10° 48' N. on the decl. arc; and observe the sun on the meridian at noon April, 18 the resulting latitude is 32° 00' N.
             April 18; At lh.00m. p.m. l.m.t., I set off 32° 00'N. on the lat. arc; 10° 49'N. on the decl. arc; and
             determine a meridian with the solar at the cor. of secs
             25, 26, 35, and 36.
             Thence I run
N.0° 01' W. bet. secs. 25 and 26.
             Over rolling foothills.
             Cross wash 15 lks. wide course N. W.
8.50
             Cross same wash 15 lks. wide course N. E.
12.00
16.00
             cross dry creek 300 lks. wide course E.
31.00
             Cross wash 10 lks. wide course E.
             Set a sandstone 18 x 8x 6 ins. 12 ins in the ground for \frac{1}{2} sec. cor. marked \frac{1}{4} on W. face; and 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.
40.00
             of cor.
52. 50 Cross wash 20 lks. wide course N. 64.85 Cross wash 15 lks. wide course N. E.
             Cross wash 20 lks. wide course N. E.
             Set a sand stone 24 x 6 x 4 ins. 18 ins. in the ground
80.00
             for cor. of secs. 23, 24, 25, and 26, marked with 2 netches on S. and 1 notch on E. edges; dig pits 18 x 18 x 12 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, mountainous.
             soil, sandy 2nd. rate.
             No timber.
             Undergrowth cat claw.
             Mountainous land 80.00 chains.
             S.89° 56'E. on a random line bet. secs. 24 and 25.
40.00 set temp. } sec. cor.
79.74
             Interseat
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BOOK 1891
             Subdivisions of Tp. 16 S. Rg. 19 E.
                                                                                              18
 JIZGELLE
             Intersect E. bdy. of Tp. 2 lks. S. of the cor. of secs
79.74
             19, 24, 25 and 30.
            Thence I run.

N. 89° 57' W. on a true line bet. secs. 24 and 25.
            Over rolling land through dense greasewood brush. Set a limestone 18 x 8 x 4 ins. 12 ins. in the ground
39.74
<del>39.87</del>
             for \frac{1}{4} sec. cor. marked \frac{1}{4} on N. face and mig pits 18 x
            18 x 12 ins. E. and W. of stone 3 ft. dist. and raise a mound of earth 3/ft. base 1 1/2 ft. high, N. of cor. The cor. of secs. 23, 24, 25 and 26.
79.74
            Land, rolling.
            Soil, sandy, 2nd. rate.
            No timber.
            Land covered with dense undergrowth 79.74 chains.
April 18, 1907
            April 19:
            on the lat. arc; 11° 05 1/2'/N. on the decl. arc;
            and determine a meridian with the solar at the cor.
            of secs. 23, $4, 25 and 26.
            Thence I run
N.0° 01' W. bet. secs. 23 and 24.
           . Over rolling foothills through dense greasewood brush.
            Cross wash 20 lks. wide course N. W. Cross wash 25 ks. wide course W.
22,10
28 ..40
            Cross wash 20 lks. wide course S. W.
30.60
            set a limestone 20 x 6 x 5 ins. 15 ins. in the ground
40.00
            for 1 sec. cor. marked 1 on W. face; digepits 18 x 18 x
            12 ins. N. and S. of stone 3 ft. dist. and raise a monud of earth 3 1/2 ft. base 1 1/2 ft. high. w. of
            cor.
            Over broken land.
64.00
            Enter wash bears S. E. and cross and re- cross same to
65.00
            Leave wash 25 lks. wide course N. W. Cross wash 10 lks. wide course N. W.
75.00
77.80
            Cross wash 10 lks. wide cousre N. W.
78.80
            Set a limestone 20 x 6 x 5 ins. 15 ins. in the ground
80.00
            for. cor. of secs. 13, 14,23, and 24 marked with 3 notches on S. and 1 notch on E. edges; from which A cedar 5 ins. diam. bears S. 48° E. 140 lks.
                          dist. marked Tl6SR19ES24BT.
            No other trees available. Dig pits 18 x 18 x 12 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, hilly and broken.
            Soil, sandy: 2nd. rate.
            No timber.
            Undergrowth, greasewood.

Mountainous land or land covered with dense undergrowth
            80.00 chains.
            S. 89° 57' E. on a random line bet. secs. 13 and 24. Set temp. } sec. cor.
Intersect E. pay. of Tp. 4 lks. S. of the cor. of secs
40.00
79.16
            N. 89°.59' W. on a true line bet a secs. 13 and 24. Cross wash 15 lks. wide course N. W. set a lime.
38.75
37.15 dross wash 15 lks. wide course N. W.
39.16
            set a limestone 18 x 6 x 5 ins. 12 ins. in the ground
            for \frac{1}{4} sec cor. marked \frac{1}{4} on N. face; and dig pits 18 x 18 x 12 ins. R. and W. of stone 3 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high
            N. of cor.
39.56
            Cross wash 25 lks. wide course N. W.
            Cross wash 35 lks. wide course N. E.
41.56
68.41
            Over broken land.
71.15
            Cross wash 10 lks. wide course N. W..
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Cross wash 10 lks. wide course N.W.

cross wash 10 lks, wide course N. W.

74.15 75.45.

Subdivision of Tp. 16 S. Rg 19 Z

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78,15
           Touls Cross wash 10 lks. wide course N. W.
           The cor. of secs. 13, 14, 23, and 24.
79.16
           Land, rough and broken.
           Soil, sandy, 2nd. and 4th. rate.
           No timber.
           Undergrowth greasewood.
           Mountainous land and land covered with dense undergrowt
           79.16 chains.
           April 19; At this cor. I set off 11° 09' N. on the decl. arc; and observe the sun on the meridian at
           neen, the resulting latitude is 32° 01 1/2' N.
          N. 0° Q1' W. bet. secs 13 and 14. Over rough broken land.
           Cross wash 8 lks. wide course N. W.
1.00
3.00 cross same wash 8 lks. wide course N. E. 10.00 cross dry creek 70 lks. wide course N. E.
          Cross wash 10 lks. wide course S. E. Cross wash 10 lks. wide course S. E. Cross wash 10 lks. wide course S. E.
32.50
37.00
39.00
40.00
           Set a limestone 20 x 6 x 5 ins. 15 ins. in the ground
           for 1 sec. cor. marked 1 on W. face; from which
                  A mesquite 6 ins. diam. bears S. 6 1/2° W. 27 lks. dist. marked 2 S 1 4 B T
           No otherstree available. 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. high 1 1/2 ft. bear W. of cor.
           Cross wash 10 lks. wide course N. E.
58.00
          Cross wash 10 lks. wide course N. E. Cross wash 10 lks. wide course N. E.
70.00
77.00
        cross wash 10 lks. wide course N. E.
79.00
80.00
           Set a limestone 18 x 8 x 4 ins. 12 ins. in the ground
           for cor. of secs. 11, 12, 13 and 14, marked with 4 notches on S. and 1 metch on E. edges; dig pits 18 x 18
           x 12 ins. in each sec. 5 1/2 ft. dist. and raise a moun
           of earth 4 ft. base 2 ft. high W. of cor. p
           Land, mountainous.
           Soil, sandy; 3rd. rate.
           No timber.
           Undergrowth, greasewood.
           Mountainous land. 80.00 chains.
          Ses89° 59' E. on a random line bet. secs. 12 and 13. Set temp \( \frac{1}{4} \) sec. cor.
Intersect E. bdy. of Tp. 2 lks. S. of the cor. of
40.00
79.30
          secs. 7, 12,13, and 18. Thence I run
           West on a true line bet. secs. 12 and 13.
           Over level land, through dense mesquite brush.
          Cross wash 20 lks. wide course N. E. Land becomes rough and broken.
10.00
14.00
          Cross wash 10 lks. wide course N. W.
Set a limestone 18 x8 x 4 ins. 12 ins. in the ground.
for \( \frac{1}{4} \) sec. dor. marked. \( \frac{1}{4} \) on N. Eace; from which
38,00
39.30
                  A mesquite 4 ins. diam. bears S. 61 1/2 R. 441ks dist. marked 2 S 1 3 B T
          No other tree available. Dig pits 18 x 188x.12 ins. E. and W. of stone 5 ft. dist. and raise a mound of .
           earth 3 1/2 ft. base 1 1/2 ft. high N. of cor.
60,00 dross dry creek 100 lks. wide course N.
          The N. W. cor. of an adebe house bears N. 176 lks.dist
The cor. of secs. 11, 12, 15, and 14.
Land, level and broken.
66.00
79.50
           Soil, sandy; 2nd. and 4th. rate.
           No timber.
          Undergrowth, mesquite.

Mountainous land and land covered with dense winder.
           growth 79.30 chains.
                                                   reaceteral lira.
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April 20: At 7h. 00m. a.m. l.m.t., I set off 32° 03' 1/2' N. on the lat. arc; 11° 26 1/2' N. on the decl.
               arc; and determine a meridian with the selar at the
               cor. of secs. 11, 12, 13, and 14.
               Thence I .run
               N. 0° 01' W. bet. secs. 11 and 12.
Over broken land through dense mesquite brush.
               Cross wash 20 lks. wide course N. W. A point from which the N. E. cor. of M.Picheco's. house bears S. 86°.51'W.15.20 chs. dist.
 24.00
 27.78
               N. E. .cor. of B. Tautimo's house bears N. 16° 15' W.
          cross road, bears N. E. and S. W. and over level land.
 31.00
 33.00
               Cross wash 20 lks. wide course N. E.
               Cross road bears N. E. and S. W.
 38.00
               get a granite stone 18 x 6 x 5 ins. 12 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on w. face; from which A mesquite 4 ins. diam. bears S. 40 $\frac{1}{2}$° E. 7 lks. dist. marked $\frac{1}{4}$ S 1 1 B T

A mesquite 12 ins. diam. bears N. 78° w. 50 lks. dist. marked $\frac{1}{4}$ S 1 2 B T
 40.00
 42.00
              Cross road bears N. E. and S. W. Cross road bears N. E. and S. W.
 61.00
               Cross Picheco creek, dry, 50 lks. wide course E.
70.00
               Cross old fence bears E. and W.
71.50
75.50
               Cross old road bears E. and W.
80.00
              Set a granite stone 18 x 10 x 6 ins. 12ins. in the
              ground for cor. of secs. 1, 2, 11, and 12. marked with 5 metches on S. and 1 notch on E. edged; dig pits 18 x 18 x 12 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, broken and level.
              Soil, sandy; 2nd. rate.
              Undergrowth, mesquite.
              Mountainous land or land covered with dense undergrowth
              80.00 chains...
              East on a true line bet. secs. 1 and 12.
              Over level land through brush.
  5.75
              Cross old fence bears N. W. and S. E.
17.00
              Cross wash bears N. E. 15 lks. wide.
22.00
              Cross Picheco Creek, dry, 45 lks. wide course N. E.
             Cross Picheco Creek, dry, ab 185. wide course N. E.

Cross wash 15 lks. wide, course N. E.

Set a limestone 18 x 10 x 4 ins. 12 ins. in the ground

for 2 sec. cor. marked 2 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. ef cor.
39.00
40.00
              M. Vernals house bears S. 4.00 chs. dist.
57.50
              Cross road bears N. and S. ascend
70.30
              Intersect E. bdy. of Tp. 70.1ks. N. of the cor. of secs. 6 and 7, and set.a sand stone 20 x 10 x 4 ins. 15 ins. in the ground for closing cor. of secs. 1 and
78.50
             18, marked C C on W. with 5 grooves on S. and 1 groove
              en M. faces; and raise a mound of stone 2 ft. base
              1 1/2 ft. high w. of cor. Pits impracticable.
              Land level.
              Soil, sandy; 1st. rate.
              No timber.
            Undergrowth, mesquite.
Land covered with dense undergrowth, 78.50 chains.
April 20: At this cer. I set off 11° 29 1/2' N. on the decl. arc; and observe the sun on the meridian at
              noon, the resulting latitude is 32° 03 1/2' N.
             .No:0° 01' W. bet. secs. 1 and 2.
              Over level land through dense brush. Cross fence bears E. and W.
7.75
8.50 Cross read socars E. sand W. and mascend.
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Top of mound peak and descend!

BOOK 1891

Subdivision of	Tp.	16	S.	Rg.	19	E.
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	Subdivisien of Tp. 16 S. Rg. 19 E.
chains.	
20.00	Over level land through dense mesquite brush.
40.00	Set a granite stone 18 x 6 x 6 ins. 12 ins. in the
	ground for \(\frac{1}{2}\) sec. cor. marked \(\frac{1}{2}\) on W. face; from
	which
	A mesquite 5 ins. diam. bears S. 5140 E. 38 lks.
	dist. marked & S 1.B T
	A mesquite 4 ins. diam. bears S. 34 1/2° W.127
	lks. dist. marked 1 S 2 B T
54.60	Cross wash 10 lks. wide course S. E.
79.65	Intersect Third Standard Parallel South 13.05 chs. w.
10,00	of the standard cor. of secs 35, and 36. As the point
	for closing cor. falls in wash, 8 lks. wide course S. E
	at
79.45	Set a granite stone 20 x 12 x 8 ins. 15 ins. in the
	ground for witness cer. to clesing cer. of secs. 1 and
	2, marked C C W C on S. face; with 1 groove on E. and
	5 grooves on W. faces; from which
•	A mesquite 6 ins. diam. bears S. 32 1/2° E. 152
	lks. dist. marked WCCCT16SR19ES1BT.
	A mesquite 6 ins. diam. bears S. 65° W. 516 lks.
	dist. marked WCCCT16SR19ES2BT.
	Land, Mountainous and level.
,	Soil, sandy; 2nd. rate.
	No timber.
1	Undergrowth, mesquite.
	Mountainous land or land covered with dense undergrowth
	79.65 chains.
	April 20, 1905.
	· · · · · · · · · · · · · · · · · · ·
	April 21: At 7b.00m. a.m l.m.t I set off 31° 59' N.
	on the lat. arc; 11° 47. N. on the decl. arc; and
	determine a meridian with the solar at the cor. of
	secs. 2, 3, 34, and 35 on the S. bdy. of the Tp.
4, 1	Thence I run
9	N.0° 01' W. bet. secs. 34 and 35.
12	Assending over rolling foothills, through mesquite
	brush.
18.00	Cross wash 15 lks. wide course N. E.
26.40	Cross fence bears E. and W.
27.10	Cross S. P. R. R. bears E. and W.
27.75	Cross telegraph line bears E. and W.
28.20	Cross fence bears E. and W.
40.00	
ŀ	Set a granitge stene 18 x 6 x 4 ins. 12 ins. in the
	ground for, 1 sec. cor. marked ton W. face; dig pits
	18 x 18 x 12 ins. N. and S. of stone 5 ft. dist. and
1	raise a mound of earth 3 1/2.ft. base 1 1/2 ft. high
	W. of.cor.
49.00	Cross wash 50 lks. wide course E.
55.00	Gross wash 10 lkswide course W. E.
79,00	Cress gully, 5 lks. wide course N. E.
80.00	Set a line, 20 x 6 x 5 ins. 15 ins. in the ground for.
	cor. of secs. 26, 27, 34, and 55, marked with 1 notch
	on S. and 2 notches on E. faces; dig pits 18 x 18 x 12
	ins. in each sec. 5 1/2 ft. dist. and raise a mound
	of earth 4 ft. base 2 ft. high W. of cer. p
	Land, rolling.
	Soil, gravelly; 2nd. rate.
I	2011, Stavetty, Mid- tage.
1	No timber.
	No timber.
•	No timber. Undergrowth, mesquite.
•	No timber.
	No timber. Undergrowth, mesquite.
	No timber. Undergrowth, mesquite. Land covered with dense undergrowth, 80.00 chains.
	No timber. Undergrowth, mesquite. Land covered with dense undergrowth, 80.00 chains.
40.00	Undergrowth, mesquite. Land covered with dense undergrowth, 80.00 chains. S. 89° 51' E. on a random line bet. secs. 26 and 35. Set temp. \(\frac{1}{4} \) sec. cor.
40.00 80.02	No timber. Undergrowth, mesquite.
	No timber. Undergrowth, mesquite. Land covered with dense undergrowth, 80.00 chains. S. 89° 51' E. on a random line bet. secs. 26 and 55. Set temp. ‡ sec. cor. Intersect N. and S. line b4 lks. S. of the cor. of
	Undergrowth, mesquite. Land covered with dense undergrowth, 80.00 chains. S. 89° 51' E. on a random line bet. secs. 26 and 35. Set temp. \(\frac{1}{4} \) sec. cor.
	No timber. Undergrowth, mesquite. Land covered with dense undergrowth, 80.00 chains. S. 89° 51' E. on a random line bet. secs. 26 and 35. Set temp. \(\frac{1}{4}\) sec. cer. Intersect N. and S. line 14 lks. S. of the cer. of secs. 25, 26, 25 and 36. Thence I run
	No timber. Undergrowth, mesquite. Land covered with dense undergrowth, 80.00 chains. S. 89° 51' E. on a random line bet. secs. 26 and 35. Set temp. ½ sec. cor. Intersect N. and S. line b4 lks. S. of the cer. of secs. 25, 26, 35 and 36. Thence I run N. 89° 57'W. on a true line bet. secs. 26 and 35.
	No timber. Undergrowth, mesquite. Land covered with dense undergrowth, 80.00 chains. S. 89° 51' E. on a random line bet. secs. 26 and 35. Set temp. \(\frac{1}{4}\) sec. cer. Intersect N. and S. line 14 lks. S. of the cer. of secs. 25, 26, 25 and 36. Thence I run

	Chaine	Subdivision of Tp. 16 S. Rg. 19 E.
	,	Character and the second of th
	13.00	Cross dry creek, 100 lks. wide course N. E.
	25.65	Cross wash 35 lks. wide course N. E.
	40.01	Set a limestone 18 x 7 x 6 ins. 12 ins. in the ground
		for. domecofeer. marked 1 on N. face; dig pits 18 x 18
		x 12 ins. E. and W. of stone 3 ft. dist.; and raise a
	0= 00	mound of earth 3 1/2 ft base 1 1/2 ft. high N. of cor.
	63.60	Cress wash 25 lks. wide course S. E.
	71.00	Cross wash 20 lks. wide course S. E.
	80.02	The cor. of secs. 26, 27, 34, and 35.
		Land, rolling.
		Soil, stony 3rd. rate. No.timber.
		Undergrowth, mesquite. Land covered with dense undergrowth, 80.02 chains.
•		April 21: At this cor. I set off 11° 50' N. on the
		decl. arc; and observe the sun on the meridian at
		noon, the resulting lat. is 52° 00' N.
	· .	moon, one resulting late is on it.
		N.0° 01'W. bet. secs. 26 and 27.
		Over relling foothills.
	40.00	39:09 Rimestono 18 y 13
		Set a limestone 18 x 6 x 6 ins. 12 ins. in the ground
		for 1 sec. cor. marked 1 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. night, w. of cor.
	66.50	Cross wash 15 lks. wide course N. E.
	72.00	cross wash 20 lks. wide course N. E.
	79.50	Cross gully 3 lks, wide course N. E.
	80.00	Set a limestene 18 x 8 x 6 ins. 12 ins. in the ground
		fer cor. of secs 22, 25, 26 amd 27, marked with 2
		notches on S. and E. edges; dig pits 18 x 18 x 12 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 foethills.
	•	Soil sandy; 2nd. rate.
		Mo timber. Mountainous land 80.00 chains.
		mountainus, iana ov. vo charis.
		S. 89° 57' E. on a random line bet. secs. 25 and 26.
	40.00	Set temp. 1 sec. cor.
	80.00	Intersect N. and S. line 2 lks.S.of the cor. of secs.
		25, 24, 25, and 26.
		Thence I. run
	. 2¥3 + 3 ×	N. 398 58' W. on a true line bet. secs. 23 and 26.
•		Over rolling foothills.
	5.10	Cross old road bears N. E. and S.W.
•	9.80	Cross golly 7.1ks. wide course N. E.
	18.00	Cross gully 10 lks. wide course N.
	35.00	Cross wash 40.1ks. wide course N.
	40.00	Set a limestone 18 x 6 x 5 ins. 12 ins. in the ground
		set a limestone 18 x 6 x 5 ins. 12 ins. in the ground for sec. cor. marked 1 on N. face; and raise a mound
	A 604 A	or earth 3 1/2 ft. base 1 1/2 ft. high N. or cor.
	47.45	Cross wash 20 lks. wide course N. E.
	56.70	Cross wash 15 lks. wide course N. E.
	78.90	.Gross wash 20 lks. wide course N. E.
	80.00	Shemeoffines secs. 22, 25, 26and 27.
•		Land, hilly. Soil, sandy; 2nd. rate.
		No timber.
		Mountainous land 80.00 chains.
		April 21, 1905.
		Why TT MT * TOAD*
		April 22,: At 7b000m. a.m. l.m.t., I set off 32° 01'
,		W. on the lat arc; 12° 07 N. on the decl. arc; and
	fa e c	determine a meridian with the solar at the cor. of
		- secs. 22, 25, 26, and 27.
		Therice I run
		N.Oº Ql'W. bet. secs 22 and 23.
	•	Over chepped broken land.
Net term		

```
Chains.
22.75
27.75
            Cross dry creek 30 lks. wide course N. E.
           Cross wash 20 lms. wide course N. E.

Set a limestone 12 x 8 x 8 ins. 8 Ins. in the ground
for. 2 sec. cor. marked 2 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
40.00
            cer.
            Cross dry creek 75 lks. wide course N. E.
44 .00
48.25
           Cross same course N. W.
54.25
            Cross same cousre N. E.
80.00
            Set a granite stone 18 x 6 x 6 ins. 12 ins. in the
           ground for. cor. of secs. 14, 15, 22 and 25, marked with 3 notches on S. and 2 notches on E. edges; from
            which
                   A cedar 4 ins. diam. bears N. 63 1/2° E. 56 lks.
                          dist. marked T16SR19ES14BT.
                   A cedar 4 ins. diam. bears S. 40° E. 56 lks.
                          dist. marked Tl6SR19ES23BT.
                   A cedar 5 ins. dimm. bears S. 84 3/4° W. 114 lks.
                           dist. marked Tl6SR19ES22BT.
                   A cedar 4 ins. diam. bears N. 24 3/4^{\circ} W. 31 lks.
                          dist. marked T16SR19ES15BT.
           Land chopped and broken.
            Soil, sandy; 2nd. rate.
           No timber.
           Undergrowth, mesquite.
Mountainous land 80 .00 chains.
           S.89° 58'E. on a random line bet. secs. 14 and 23. Set temp. ½ sec. cor. Intersect N. and S. line 2 lks. S. of the cor. of secs.
40.00
80.04
            13, 14, 28, and 24.
            Thence I run
           N. 89° 59' W. on a true line bet. secs. 14 and 23.
            Over broken land.
            Cross wash 8 lks. wide course N. W.
1.50
           Cross wash 10 lks. wide course N. Cross dry creek 20 lks. wide course N.
7.40
10.00
           Cross wash 10 lks. wide course N. E.

Cross wash 10 lks. wide course N. E.

Set a limestone 22 x 6 x 4 ins. 16 ins. in the ground

for \( \frac{1}{4} \) sec. cor. marked \( \frac{1}{4} \) pn N. face; dig pits 18 x 18 x
27.20
36.30
40.02
           12 ins. E. and W. of stone 3 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high. W. of cor.
42.00
           Cross wash 7 lks. wide course S. E.
57.60
           Cross wash 20 1kg. wide course N. E.
           Cross wash 10 lks. wide sourse N. W.
69.00
74.00
           Cross wash 10 lks wide course No W.
77.80
           Cross wash 10.1ks. wide course N.
80.04
           The cor, of secs. 14, 15, 22, and 25.
           Land broken,
           Soil, sandy; 2nd. rate.
           No timber.
           Mountainous land 80.04 chains.

April 22; at this cor. I set off 12° 19 1/2 . on the decl. are; and observe the sun on the meridian at noon, the resulting lat. is 32° 01 1/2! No
           N. 0° 01' W. bet. secs. 14 and 15.
           Over broken country.
           Gross dry creek 75 lks. wide course N. E.
 6.50
 10.00
           Cross wash 8 Iks. wide course E.
           Cross wash 15 lks. wide course E.
 17,60
           Set a granite stone 18 x 6 x 6 ins. 18 ins. in the ground for toses of comes marked ton W. face; dig pits
 40.00
            18 x 18 x 12 ins. N. and S. of stone 5 ft. dist. and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high
            w. of cor.
            And over level land through dense mesquite brush.
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Subdivisionof Tp. 16 S. Rg. 19 E.
53.50 Cross wash 10 lks. wid e course N. E.
63.00
                     Cross wash 20 lks. wide course N. E.
                     Cross wash 15 lks. wide course N. E. Cross wash 15 lks. wide course N. E.
71.15
77.00
                    Set a granite stone 18 x 8 x 4 ins. 12 ins. in the ground for cor. of secs. 10, 11, 14 and 15, marked
80.00
                     with 4 notches on S. and 2 notches on E. edges; from
                    which
                                  A mesquite 5 ins. diam. bears N.86 1/2° E. 991ks. dist. marked T16SR19ES11BT.
                                  A hackberry 12 ins. diam. bears S. 87 7 E. 185
                                               lks. dist. marked Tl6SR19ES14BT.
                                  A Willow 4 ins. diam. bears S. 86 1/2° W. 58 lks. dist. marked T16SR19ES15BT.
                                  A willow 4 ins. diam. bears N.82 1/2° W. 55
                                               lks. dist. marked T16SR19ES10BT.
                    Land level and broken.
                    Soil, sandy; 2nd. rate. No timber.
                    Undergrowth, mesquite.
                    Mountainous land and land covered with dense under-
                     growth 80.00 chains.
                    S. 89° 59'E. on a random line bet. secs. 11 and 14.
  40.00
                    Set temp. + sec. cor.
                    Intersect N. and S. line 2 lks. N. of the cor. of
  80.12
                    secs. 11, 12, 13 and 14.
Thence I run
N. 89° 58' W. on a true line bet. secs. 11 and 14.
                    Over broken country.
                   Cross wash 35 lks. wide course N. Cross wash 40 lks. wide course Nl Set a quartz stone 24 x 8 x 5 ins. 18 ins. in the ground for \(\frac{1}{2}\) sec. cor. marked \(\frac{1}{2}\) on N. face; and raise a mound of stone 2 ft. base, 1 1/2 ft. high, N. of
 28.72
 36.75
  40.06
                    cor. Pits impracticable.
                   Cross wash 8 lks. wide course N. Cross road bears N. and S. Cross dry creek, 75 lks. wide course N.
  50.00
  75.50
 78.50
 80.12
                    The cor. of secs. 10, 11, 14 and 15.
                    Land broken.
                    Soil, sand
                                 sandy; 3rd. rate.
                   Mountainous land, 80.12 chains.
                                                                                                     April 22, 1905.
                    April 23: At 7h. 00' a.m. l.m.t., I set off 52° 02 1/2' N. on the lat. arc; 12° 27'/N. on the decl. arc; and
                    determine a meridian with the solar at the cor. of secs
                    10, 11, 14, and 15.
                   Thence I run
N. 0° 01' W. bet. secs. 10 and 11.
Over broken land.
Cross wash 50 lks. wide course E.
        ine
 3,367
13,80
                   Cross road bears N. E. and S. W.
15.30 Cross wash 30 lks. wide course N. E. and over level

15.30 Cross wash 30 lks. wide course N. E. and over level

1and through dense mesquite brush.

40.00 Faint for 1 sec. cor. falls in Picheco Creek, running

140.50 still quartz stone 18 x 8 x 4 ins. 12 ins. in the

15.31 could for withess cor. to 1 sec. cor. marked w w 1

15.30 cross wash 30 lks. wide course N. E. and over level

15.30 cross wash 30 lks. wide course N. E. and over level

15.30 cross wash 30 lks. wide course N. E. and over level

15.30 cross wash 30 lks. wide course N. E. and over level

15.30 cross wash 30 lks. wide course N. E. and over level

15.30 cross wash 30 lks. wide course N. E. and over level

15.30 cross wash 30 lks. wide course N. E. and over level

15.30 cross wash 30 lks. wide course N. E. and over level

15.30 cross wash 30 lks. wide course N. E. and over level

15.30 cross wash 30 lks. wide course N. E. and over level

15.30 cross wash 30 lks. wide course N. E. and over level

15.30 cross wash 30 lks. wide course N. E. and over level

15.30 cross wash 30 lks. wide course N. E. and over level

15.30 cross wash 30 lks. wide course N. E. and over level

15.30 cross wash 30 lks. wide course N. E. and over level

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15.30 cross wash 30 lks. wide course N. E. and over level

15.30 cross wash 30 lks. wide course N. E. and over level

15.30 cross wash 30 lks. wide course N. E. and over level

15.30 cross wash 30 lks. wide course N. E. and over level

15.30 cross wash 30 lks. wide course N. E. and over level

15.30 cross wash 30 lks. wide course N. E. and over level

15.30 cross wash 30 lks. wide course N. E. and over level

15.30 cross wash 30 lks. wide course N. E. and over level

15.30 cross wash 30 lks. wide course N. E. and over level

15.30 cross wash 30 lks. wide course N. E. and over level

15.30 cross wash 30 lks. wide course N. E. and over level

15.30 cross wash 30 lks. wide course N. E. and over level

15.30 cross wash 30 lks. wide course N. E. and over level

15.3
        . W 83
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	cubdivision of Trile C. Do 10 F
Chains.	
	A A mesquite 12 ins. diam. bears N. 64° E. 248
	lks. dist. marked T.16SR19ES2BT.
	A mesquite 5 ins. diam. bears S. 44 1/2° E. 289 lks. dist. marked Tl6SR19ES11ET.
	A mesquite 5 ins. diam. bears S. 44 ½ W. 78
	lks. dist. marked Tl6SR19ES10BT.
·	A mesquite 5 ins. diam. bears N.67 1 w. 110
	lks. dist. marked Tl6SR19ES3BT.
	Land level and broken.
	Soil, sandy; 2nd. rate. Timber, a few hackberrys along creek.
	Undergrowth, mesquite.
	Mountainous land and land covered with dense under-
	growth 80.00 chains.
	S.89° 58' E. on a random line bet. secs. 2 and 11.
40.00	Set temp. 1 sec. cor.
80.02	Intersect N. and S. line 5 lks. S. of the cor. of
	secs. 1, 2, 11, and 12.
	From this cor. the Nl E. cer. of B. Tautimo's house bears S. 77 1/2° W.
	From this cor. I new run
	West bet. secs. 2 and 11.
	Over level land through dense cockle brush.
11.60	Cross old fence bears N. and S., and over broken land
10.05	through dense mesquite brush.
12.85 40.01	Cross road bears N. and S. Set a granite stone 20 x 6 x 5 ins. 15 ins. in the
30.02	ground for ½ sec. cor marked ½ on N. face: from
	which
	Amesquite 4 ins. diam. bears N. 18 ° W. 70
	lks. dist, marked 1 S 2 B T
	A mesquite 4 ins. diam. bears S. 29 1/2 ° E. 130 lks. dist. marked 2 S 1 1 B T
49.75	Cross dry creek, 30 lks.wide course'S.
69.60	Cross old road bears N. W. and S. E.
80.02	The cor. of secs. 2, 3, 10, and 11.
	Land, broken and level.
	Soil, sandy; 2nd. rate.
	Undergrowth, mesquite.
	Mountainous land and land covered with dense under-
	growth 80.02 chains.
	April 23; at this cor. I set off 12° 30 1/2' N. on
	the decl. arc; and observe the sun on the meridian at noon, the resulting lat. is 32° 05 1/2' N.
	at noon, one result and rate of the
	N. 0° Ol'W. bet. secs. 2 and 3.
6 00	Over broken land. Cross road bears N. W. and S. E.
6.00 40.00	Set a granite stone 18 x 6 x 5 ins. 12 ins. In the
10.00	Set a granite stone 18 x 6 x 5 ins. 12 ins. in the ground for 1 sec. cor. marked 1 on W. face; and raise
	a mound of stone 2 ft. base 1 1/2 ft. high we or see.
~~ ~~	Pits impracticable.
79. 73	Intersect Third Standard Parallel Seuth 13.06 Hes. W. of the standard cor. od secs. 35 and at a
	Sand stone 24 x 12 x 4 ins. 18 in the reason
	for closing cor. of secs. 2 and 5 harked with 2 grooves
	Sand stone 24 x 12 x 4 ins 18 in the trained for closing cor. of secs. 2 and 3 marked vith 2 grooves on E. and 4 grooves on W. races: and C.C. on S. face: and raise a mound of stone 2 ft. base 1 1/2 to high
	and raise a mound of stone 2 ft. Dass 1 1/2 75. high
	S. of cor. Pits impracticable. Land broken.
	CAIL COANT Sud water
	No timber:
	Mountainous land 79.73 chains.
4 /	APP 31 25 180 93
	April 24: At 7h. 00m a.m. 1,met. Frant off 51° 59°W.
	on the lat. arc; 12° 47 / s. on the decl. arc; and

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Subdivision of Tp. 16'S. Rg. 19 E.
chains.
              determine a meridian with the solar at the cor. of
              secs. 3, 4, 38, and 34.
Thence I run
N. 0° 02' W. bet. secs 33 and 34.
              Assembling over rolling foothills.
              Cross wash 40 lks. wide course N. E.
 10.00
 10.85
              Cross fence bears E. and W.
 12.00
              Cross S. P. R. R. bears E. and W.
 12.55
              Cross telegraph line bears E. and W.
             Cross fence bears E. and W. Cross dry creek, 1001ks. wide course S. E.
 13.25
 18.75
 30.00
              Cross wash 10 lks. wide course S. W.
            Set a limestone 20 x 6 x 3 ins. 15 ins. in the ground for \frac{1}{2} sec. cor. marked \frac{1}{2} on W. face; dig pits 18 x 18 x 12 ins. N. and S. of cor. 3 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high W. of
 40.00
             cor.
             Cross wash 10 lks. wide course S. W. Cross wash 20 lks. wide course E.
 41.00
 61.50
             Cross wash 20 lks. wide course S. E.
 76.00
             Set a limestone 18 x 6 x 6 ins. 12 ins. in the ground
80.00
             for cor. of secs. 27, 28, 35, and 34 marked with 1 notch on S. and 3 notches on E. edges; dig pits 18 x 18
             x 12 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 foothills.
             Soil, sandy; 2nd. rate.
             No timber.
             Mountainous land 80.00 chains.
             East on a random line bet. secs. 27 am 34.
             Set temp. 1 sec. cor.
Intersect N. and S. line 7 lks. S. of the cor. of secs.
40.00
79.96
             26, 27, 34, and 35.
             Thence I run
                 9° 57' W. on a true line bet. secs. 27 and 34.
                   nding over rolling foothills, through dense
             mesquite brush.
20.00
             Leave brush.
             Set a limestone 20 x 6 x 5 ins. 15 ins. in the ground
39.98
            For 1 sec. cor. marked 1 on N. face; dig pits 18 x 18 x 12 ins. E. and W. of stone 3 ft. dist. and raise a mound of earth 4 ft. base 1 1/2 ft. high, N. of cor.
            Cross gully 15 lks. wide course S. E. The cor. of secs. 27, 28, 38, and 34. Land, rolling foothills.
67.36
79.96.
             Soil, sandy; 3rd. rate.
             No timber.
             Undergrowth, mesquite.
             Mountainous land or land covered with dense under-
             growth 79.96 chains.
            April 24; at this cor. I set off 12° 50 1/2' N. on the
             decl. arc; and observe the sun on the meridian at noon
             the resulting latitude is 32° 00' N.V
            W. 10° 22' W. Bet. secs. 27 and 28.
2.00
            Press wash 10 lks. wide course N. E.
5.60
             Cross wash 8 lks. wide course N. E.
30.00
             Cross wash 30 lks. wide course N. E.
            Cross wash 8 lks. wide course N. W.
Set a limestone 18 x8 x 6 ins. 12 ins. in the ground
for \( \frac{1}{2} \) sec. cor. marked \( \frac{1}{2} \) on W. face; dig pits 18 x 18
x 12 ins. N. and S. of atone 3ft. dist. and raise a
mound of earth 3 1/2 ft. base 1 1/2 ft. high W. of cor
59.40
40.00
44.00
            Cross wash 5 lks. wide course N. W.
48.70
57.20
            Cross wash 10 lks. wide course N. E. Cross wash 8 lks. wide course N. W. Cross wash 10 lks. wide course N. E.
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63.00

Subdivision of Tp. 16 S. Rg. 19 E.

	Subdivision of Tp. 16 S. Rg. 19 E.
68.80 73.00 80.00	Cross wash 10 lks. wide course N. E. Cross wash 10 lks. wide wourse N. E. Set a limestome 18 x 6 x 6 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; dig pits 18 x 18 x 12 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, Mountainous. Soil, rocky: 4th. rate. No timber. Mountainous land 80.00 chains.
40.00 80.08	N. 89° 57' E. on a random line bet. secs. 22 and 27. Set temp. ½ sec. cer. Intersect N. and S. line 5 lks. N. of the cor. of secs. 22, 23, 26 and 27. Thence I run S. 89° 59' W. on a true line bet. secs. 22 and 27.
11.00 23.30	Over rolling foothills. tross wash 15 lks. wide course N. E. and cross and re- cross same wash to
30.00	Leave wash bears N. W. Set a lime stone 18 x 6 x 5 ins. 12 ins. in the 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 stone 3 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high
47.70 58.00 80.08	N. of cor. Cross wash 25 lks. wide course N. E. Cross wash 30 lks. wide course N. E. The cor. of secs. 21, 22, 27, and 28. Land, Mountainous. Soil, stony, 3rd. rate. No timber. Mountainous land 80.08 chains.
1.85 15.75 C 38.80 40.00	April, 24, 1905. April 25; At 7h. 00m. a.m. 1.m.t., I set off 32° 01!w. on the lat. arc; 13° 06 1/2'vN. on the decl. arc; and determine a meridian with the solar at the cer. af secs. 21, 22, 27 and 28. Thence I run N. 0° 02' W, bet secs. 21 and 22. Over rolling foothills. Cross wash 15 lks. wide course N. E. Cross wash 20 lks. wide course S. E. Set a granite stone 18 x 8 x 6 ins, 12 ins. in the ground for ½ sec. cer. marked ½ en W. face; dig pits 18 x 18 x 12 ins. N. and S. of stane 5 ft. dist. and raise a mound of carth 3 1/2 ft. base 1 1/2 ft. high W. of cer. Cross wash 20 lks. wide course S. E. Set a granite stone 30 x 16 x 16 ins. 28 ins. in the ground for cor. of secs 15, 16, 21 and 22, marked 16 S. on N. E. and 19 E. on S. E. faces; with 3 notches on S. and E. edges; dig pits 18 x 18 x 12 ins. in each sec. 5 1/2 ft. dist. and raise a mound of carth 4 ft. base 2 ft. high W. of cor. Land, Mountainous. Soil, sandy; 2nd. rate. Mountainous land 80.00 chains.
40.00 80.05	N.89° 59' E. on a random line bet. secs. 15 and 22. Set temp. 1 sec. cor. Intersect N. and S. line 5 lks. N. of the cor. of secs. 14, 15, 22 and 25.

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chains.
                Thence I run
               N. 89° 59 W. on a true line bet. secs. 15 and 22.
                Over Chopped broken land.
              Cross wash 15 lks. wide course N. W. Cross dry creek 40 lks. wide course N. W. Cross wash 50 lks. wide course N. E.
  2.50
  4.50
  11.50
                Cross wash 30 lks. wide course S. E.
  22.50
  28.00
                Cross same wash course N. E.
                Cross wash 15 lks. wide course S. E.
  39.75
               Set a granite stone 16 x 14 x 4 ins. 11 ins. in the ground for. 4 sec. cor. marked 4 on N. face; dig pits 18 x 18 x 12 ins. E. and W. of stone 3 ft. dist. and raise a mound of samh 3 1/2 ft. base 1 1/2 ft. high
  40.025
               N. of cor.
               Cross wash 15 lks. wide course S. E. Cross wash 10 lks. wide course S. E. Cross wash 10 lks. wide course S. E. and assend over
  44.00
  50.00
  56.00
               rolling foothills.
              The cor. of secs. 15, 16, 21 and 22. Land, hilly and broken.
 80.05
               Soil, sandy; 2nd. bate.
               No timber.
               Mountainous land, 80.05 chains.
               April 25: at this cor. I set off 13° 10' N. on the decl. arc; and observe the sun on the meridian at noon the resulting latitude is 32° 01 1/2 ' N.
               N. 0° 02' W. bet. secs. 15 and 16.
               according over rolling foothills.
 2.50
               Cross dry creek 40 lks. wid e course N. E. Cross wash 20 lks. wide course N. E.
 19.00
 27.50
              Gress old read bears N. E. and S. W.
               Oross wash 10 lks. wide course N. E.
 32.00
 40.00 Set a granite stone 18 x 12 x 6 ins. 12 ins. in the ground for \(\frac{1}{2}\) sec. cor. marked \(\frac{1}{2}\) on W. face; dig pits 18 x 18 x 12 ins. W. and S. of stone 3 ft. dist. and relies a mound of earth 3 1/2 ft. base 1 1/2 ft. high
             W. of cor. Cross dry creek 45 lks. wide course N. E.
 42.50
 45.80
              Cross read bears E. and W.
 48.00 cross wash 10 lks. wide course E. and ascend rough S. slope
              of mountain.
51.00
              Cross wash 8 lks. wide course S. E.
              Cross wash 8 lks. wide course S. E. Cross wash 15 lks. wide course S. E.
65.50
70.60
              Point for cor. falls on a granite rock in place 18 x 8
80.00
              x 4 ins. above ground. Imark a cross x at exact point
              for cor. of secs. 9, 10, 15 and 16 and 4 groves S. and 3 groves E. of cross; and raise a mound of stone 2 ft. base 1 1/2 ft. high, w. of cor. Pits impracti-
              From this cor. J. K. Corbett's house bears N. 68° 42'E.
              Land, Mountainous.
             Soil, sand
No timber.
                      sandy and rocky; 2nd. and 4th. rate.
             Mountainous land 80.00 chains.
             S. 89° 59' E. on a random line bet. secs. 10 and 15. Set temp. 1 sec. cor. Intersect N. and S. line 4 lks. S. of the cor. of secs.
 40.00
 80.08
             10, 11, 14 and 15.
             Thence I run
S. 89° 59'W. on a true line bet. secs. 10 and 15.
             Over broken land.
             Cross wash 10 lks. wide course N. E.
2.15
             Cress road bears N. E. and S. W.
 11.30
             Cress wash 35 lks. wide course N. E. Peint fer cor. falls in wash course S. E. 10 lks. wide
 35.00
40.04
             so at
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Subdivision of Tp. 16 S. Rg. 19 E.

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mains.
             Set a granite stone 18 x 12 x 6 ins. 12 ins. in the grant for witness \( \frac{1}{2} \) sec. cor. marked \( \mathbb{C} \) \( \frac{1}{2} \) on N. face;
 40.20
             from which
                     A cedar 4 ins. diam. bears N. 31 1/2° W. 45
             lks. dist. marked W C 1 S 1 O B T
A cedar 4 ins. diam. bears S. 35 3/4 ° E. 124
lks. dist. marked W C 1 S 1 5 B T
Cross wash 15 lks. wide course N. E.
51.30
             Cross old road bears N. and S.
54.00
96.70
             A point from which J. K. Corbett's house bears N. 19°
             50' W.
             Cross wash 20 lks. wide course N. E. Cross wash 30 lks. wide course N. E. and ascend rough
57,60
62.50
             E. slope of mountain.
80.08
             The cor. of secs. 9, 10, 15 and 16.
             Land, Mountainous.
             Soil, sandy; and rocky; 2nd. and 4th. rate. No timber.
             Mountainous land 80.08 chains.
                                                               April 25, 1905.
             April 26: At 7h. 00m. a.m. l.m.t. I set off 32° 02 1/2' N. on the lat. arc; 13° 26'\N. on the decl. 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. Along rough E. slope of mountain.
             Cross wash 8 lks. wide course N. E.
21.90
             Cross wash 20 lks. wide course S. E.
25.20
             Change to N. slope and descend.

Set a quartz stone 28 x 6 x 6 ins. in a mound of stone
for 1 sec. cor. marked 1 on W. face; and raise a mound
of stone 2 ft. base 1 1/2 ft. high W. of oor. Pits
36.00
40.00
             impracticable.
55.00
             Cross Picheco Creek, running stream, 50 lks. wide,
            course E., and ascend rough S. slope of mountain.
Set a granite stone 24 x 6 x 5 ins. 18 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.
80.00
             Pits impracticable.
             Land mountainous.
             Soil rocky; 4th. rate.
             No timber.
             Mountainous land 80.00 chains.
            N.89° 59'E. on a random line bet. secs. 3 and 10. Set temp. + sec. cor.
40,00
80.04
             Intersect N. and S. line 5 lks. S. of the cor, of secs.
            2, 5, 10, and 11.
Thence I run
S. 89° 57' W. on a true line bet. secs. 3 and 10.
             Over broken land.
             Crosswash 30 lks. wide course S. Cross and re- cross wash 6 lks. wide course S. E. to
2.70
19.00
             Leave wash bears S. W.
24.00
             Cross wash 30 lks. wide course S. Cross wash 30 lks. wide course S.
30.50
39.50
             Set a granite stone 18 x 8 x6 ing. 12 ins. in the orground for 1 sec. cor. marked 1 on N. face; and raise a mound of stone 2 ft. base 1 1/2 ft. high N. of cor.
40.02
             Pits impracticable.
52.00 ·
             Cross wash 30 lks wide course S. E. and ascend rough
            E. shope of mountain.
The cor. of secs. 3,
80.04
                                              4, 9and 10.
             Land mountainous.
             Soil, rocky; 3rd. rate.
            No timber.
            Mountainous land 80 04 chains
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Subdivision of Tp.16 S. Rg 19 E.

April 26; at this cor. I set off 13° 29 1/2' N. on the decl. arc; and observe the sun on the meridian at noon, the resulting latitude is 32° 03 1/2' N. N. 0° 02' W. bet. secs. 3 and 4. Ascending rough S. slope of mountain. 7.00 Along rough E. slpoe. Descend N. E. slope. 36.00 Set a granite stone 18 x 8x 4 ins. 12 ins. in the ground for 1 sec. cor. marked 1 on w. face; and raise a mound of stone 2 ft. base 1 1/2 ft. high w. of cor. 40.00 Pits impracticable. Cross wash 10 lks. wide course N. E. Cross wash 15 lks. wide course N. E. Cross wash 10 lks. wide course N. E. 56.30 64.00 75 20 Intersect Third Standard Parallel South 13.08 chs. w. 80.18 of the standard cor. of secs. 33 and 34, and set granite stone 24 x 8 x 6 ins. in a mound of stone for closing cor. of secs. 3 and 4, marked C C on S. with a grooves on E. and W. faces; and raise a mound of stone 2 ft. base 1 1/2 ft. high S. of cer. .Pits impracticable. Land, mountainous.
Soil, rocky; 4th. rate.
No timber. Mountaineus land 80.18 chs. April 26, 1905. April 27: At 7h. 00m. a.m. l.m.t., I set off 31° 59' won the lat. arc; 13° 45 1/2' N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 4. 5. 32 and 33 on the S. bdy. of the Tp. Thence I run N. 0° 02' W. bet. secs 32 and 35. Ascending over rolling foothills. Cross fence bears E. and W. 0.80 1.40 Cross wash 40 lks. wide course E. Set a limestone 18 x6 x 6 ins. 12 ins. in the ground for 2 sec. cor. marked 2 on W. face; dig pits 18 x 18 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. 40.00 **62.3**5 Cross wash 10 lks. wide course N. E. Cross wash 20 lks. wide course E.

Set a limestone 16 x 12 x 10 ins. 11 ins. in the

ground for cer. of secs. 28, 29, 32 and 33 marked with

1 notch on S. and 4 notches on E. edges; and dig pits

18 x 18 x 12 ins. in each sec. 5 1/2 ft. dist. and 73.00 80.00 raise a mound of earth 4 ft. base 2 ft. high w. of cor. Land, Mountainous. soil, gravelly; 3rd. rate. No timber. Mountainous land 80.00 chains. East on a random line bet. secs. 28 and 33. Set temp. \(\frac{1}{2}\) sec. cor.
Intersect N. and S. line 2 lks. N. of the cor. of secs. 40.00 80.02 27, 28, 33 and 34.
Thence I rum.
N. 89° 59' W. on a true line bet. secs. 28 and 33, Over rolling footbills. Set a limestone 24 x 7 x 4 ins. 18 ins. in the ground 40.01 for 1 sec. cor. marked 1 on N. face; dig pits 18 x 18 x 12 ins. E. and W. of stone 5 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high, N. of cer. 41.00 Cross wash 100 lks. wide course S. E. Cross wash 25 lks. wide course S. E. The cor. of secs. 28, 29, 32and 35. 80.02

Land, mountainous.

Soil, sandy; 2nd. rate,

Subdivision of Tp 16 Sl Rg. 19 E.

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CHE LES
           No timber.
           Mountainous land 80.02 chains.
            April 27: at this cor. I set off 13° 48 1/2' N. on
            the decl. arc; and observe the sun on the meridian
            at noon, the resulting latitude is 32° 00' N.
           N. 0° 02' W. bet. secs. 28and 29. Ascending over rolling foothills.
            cross gully 10 lks. wide course N. E.
 18.00
           Set a granite stone 16 x 8 x 6 ins. 11 ins. in the ground for \frac{1}{4} sec. cor. marked \frac{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
 40.00
            w. of cor.
            cross wash 10 1 ks. wide course N. E.
 52.30
           Cross wash 20 lks. wide course E. Set a white quartz stone 16 x 8 x $ ins. 11 ins. in
 65.35
 80.00
            the ground for cor. of secs. 20, 21 28 and 29, marked
           with 2 notches on S. and 4 notches on E. edges; dig pits 18 x 18 x 12 ins. in each sec. 5 1/2 ft. dist.
            and raise a mound of earth 4 ft. base 2 fth high W.
            of cor.
            Land rolling hills.
            Soil, gravelly; 3rd. rate.
            No timber.
            Mountainous land 80.00 chains.
            S. 89° 59' E. on a random line bet. secs. 21 and 28. Set temp. 2 sec. cor.
 40.00
            Intersect N. and S. line 2 lks. S. of the cor. of secs.
 79.94
            21, 22, 27 and 28.
            Thence I run
            west on a true line bet. secs. 21 and 28.
            Over rolling foothills.
            cross wash 20 lks. wide course N. E.
 1.40
            Set a granite stone 16 x 10 x 5 ins. 11 ins. in the ground for 1 sec. cor. marked 1 on N. face; dig pits 19
 39.97
            x 18 x 12 ins. E. and W. of stone 3 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high
            N. of cor.
            Cross wash 25 lks. wide course N. E.
 52.00
         cross wash 15 lks. wide course N. W.
 72.60
 79.70
           Cross wash 7 lks. wide course W. W.
            The cor, of secs. 20, 21, 28, and 29.
 79.94
            Land hilly.
           Soil, gravelly; 3rd. rate. No timber.
            Mountainous land 79.94 chains.
                                                          April 27, 1905.
            april 28: At 7h. 00m. a.m.l.m.t., I set eff 32° 01' N. on the lat. arc; 14° 04 1/2 'N. on the decl. arc;
            and determine a meridian with the solar at the cor.
            of secs. 20, 21, 28, and 29.
           · Thence I .run
            N. 0° 02' W. bet. secs. 20 and 21
            Over rolling foothills.
            Gross wash 10 lks. wide course N. E.
 0.65
 6.50
            cross wash 15 lks. wide course N. E.
          Cross wash 20 lks. wide course N. R.
 25. 25
 35.50.
            cross wash 8 lks. wide course N. W.
            Set a granite stone 18 x 6 x 4 ins. 12 ins. in the ground for 1 sec. cor. marked 1 on W. face; dig pits 18 x 18 x 12 ins. N. and S. of cor. 3 ft. dist. and raise a mound of earth 5 1/2 ft. base 1 1/2 ft. high
 40.00
            w. of cor.
 49.50
            cross wash 10 lks. wide course N. W.
            Cross wash 15 lks. wide wourse Naw.
 68.00
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#100× F 7755
79.00
            Cross wash 15 lks. wide course w.
79.25
            Cross road bears E. and W.
            Set a granite stone 18 x 12 x 4 ins. 12 ins. in the
80.00
            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 1/2 ft. high w.
            of cor. Pits impracticable.
            Land hilly.
            Soil, sandy and stony; 2nd. and 4th. rate.
            No timber.
            Mountainous land 80. 00 chains.
            East on a random line bet. secs. 16 and 21.
 40.00
            Set temp. 4 sec. cor.
 80.04
            Intersect N. and S. line 2 lks. S. of cor. of secs.
            15, 16, 21 and 22.
            Thence I run
S. 89° 59' W. on a true line bet. secs. 16 and 21.
            Over rolling foothills.
 1.60
            Cross dry creek 35 lks.wide course N. E.
           Cross same 20 lks. wide course S. E. Cross same 10 lks. wide course N. E. Set a granite 18 x 12 x 5 ins. 12 ins. in the ground
21.50
26.40
 40.02
            for 1 sec. cor. marked 1 on N. face; dig pits 18 x 18
           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
           Cross wash 7 lks. wide course n.
53.00
       cross wash 10 lks. wide course N. E.
58.00
           Cross road bears . N . . E: and S . . W .
70.50
80.04 th The cor. of secs. 16, 17, 20 and 21.
           Land, hilly.
           Soil sandy; 2nd. rate.
           No timber.
           Mountainous land, 80.04 chains.
           April 28: at this cor. I set off 14° 07 1/2' N. on the decl. arc; and observe the sun on the meridian at noon; the resulting latitude is 32° 01 1/2' N.
           N.0° 02' W. bet. secs. 16 and 17.
           Over rolling foothills through mesquite brush.
       Cross wash 8 lks. wide course N. W.

Set a granite stone 18 x 6 x 5 ins. 12 ins. in the ground for 1 sec. cor. marked 1 en 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.
10.15
40.00
41.00
           Cross wash 15 lks. wide course N. W.
           Cross dry creek 100 lks. wide course N. E.
55.00
77.50
           Cross Picheco Creek, running stream, 75 lks. wide count
           course E.
           Set a granite stone 20 x 6 x 5 ins. 15 ins. in the
80.00
          pround for cor. of secs 8, 9, 16 and 17 marked with 4 netches on S. and E. edges; from which
                A cumero 10 ins. diam bears N. 84 1/2° E. 318
           lks. dist. marked Tl6SR19ES9BT.
                 A cumaro 10 ins. diam. bears S. 82 3/4^{\circ} E. 277
                      lks. dist marked Tl6SR19ES16BT.
                 Amesquite 4 ins. diam. bears S. 21 3/4° w. 80
                       lks. dist. marked T16SR19ES17BT
                 A mesquite 4 ins. diam. bears N. 60 3/4° W. 104
                       lks. dist. marked Tl6SR19ES8BT.
           Land, rolling.
          Soil, sandy; 2nd. rate.
          No timber.
          Undergrowth, mesquite.
           Land covered with dense undergrowth, 80.00 chains.
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N.89° 59' E. on a random line bet. secs. 9 and 16.

Subdivision of Tp. 16 S. Rg. 19 E.

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set temp. 1 sec. cor.
Intersect N. and S. line 1/2 lks. N. of the cor. of
40.00
79.96
            secs. 9, 10, 15 and 16.
            Thence I run
N. 89° 57' W. on a true line bet. secs. 9 and 16.
            Ascending steep E. slope of mountain.
            Cross wash 12 lks. wide course S. E.
12.50
            Top of high ridge bears N. and S. and descend ro ugh
21.50
            Set a Quartz stone 18 x 8 x 6 ins. 12 ins. in the ground for 1 sec cor. marked 1 on N. face; and raise a mound of stone 2 ft. base 1 1/2 ft. high N. of cor.
39.98
            Pits impracticable.
            Cross wash 15 lks. wide course S. W. Cross Picheco Creek, running stream, 75 lks. wide.
51.85
59.75
            course N. E. and over rolling land through dense mesquite brush.
            Cross Picheco Creek in bend course S. E. bears S. W.
64.50
            running stream 75 lks. wide.
            The cor. of secs. 8, 9, 16, and 17.
79.86
            Land rolling and mountainous. Soil, sandy and rocky; 2nd. and 4th. rate.
            Timber, a few oaks along creek.
            Undergrowth, meaquite.
Mountainous land or land covered with dense under-
            growth 79.96 chains.
                                                           April, 28, 1905.
            April 29: At 7h. 00m. a.m. 1.m.t., I set eff 32° 02 1/2 N. on the lat. arc; 14° 25 1/2' N. on the decl. arc;
            and determine a meridian with the selar at the cor.
            of secs. 8, 9, 16, and 17.
            Thence I run
            N. 0° 02'W. bet. secs. 8 and 9.
            Ascending S. slope of mountains.
Set a granite stone 30 x 15 x 7 ins. 22 ins. in the ground for 1 sec. cer. marked 1 en W. face; and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cer.
40.00
            Pits impracticable.
49.00
            Cross wash 10 lks. wide course S. E. and slope becomes
            rough.
80.00
           Set a granite stone 26 x 10 x 6ins. 19 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.
            Soil, rocky; 4th. rate.
            No timber.
            Mountainous land 80.00 chains.
            S. 89° 57' E. on a random line bet. secs. 4 and 9. Set temp. 1 sec. cor. Intersect N. and S. line at the cor. of secs 3, 4, 9
 40.00
 80.18
            and 101
            Thence I run
            N.89° 57' W. on a true line bet. secs. 4 and 9. Along S. slope of rough mountains.
            Cross wash 12 lks. wide course S. E.
 11.60
           Cross wash 20 lks.wide course S. E.

The point for \(\frac{1}{4}\) sec. cer. falls on a granite rock in place 6 x 4 x 4 ft. above ground, I mark a gress x for exact point for \(\frac{1}{4}\) sec. cer. and \(\frac{1}{4}\) N. of cross; and raise a mound of stone 2 ft. base 1 1/2 ft. high
 19.25
 40.09
            N. of cor. pits impracticable.
Cross wash 20 lks. wide course S. E.
 42.75
 80.18
            The cor. of secs. 4, 5, 8 and 9.
            Land, mountainous.
            Soil, rocky; 4th. rate.
           No timber.
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Subdivision of To. 16 S. Rg.
Chains
              Mountainous land 80.18 chains.
                                                               April 29, 1905.
              April 30: At 7h. 00' a.m. l.m.t., I set. off 14° 42'N on the decl. arc; 32° 03 1/2 'N. on the lat. arc:
               and determine a meridian with the selar at the cor.
              of secs. 4, 5, 8 and 9.
              Thence I run
N. 0° 02' W. bet. secs. 4 and 5.
              Ascending over rough mountains.
              Set a granite stone 24 x 8 x 6 ins. 18 ins. in the ground for \frac{1}{4} sec. cor. marked \frac{1}{4} en w. face; and raise a mound of stone 2 ft. base, 1 1/2 ft. high, w. of cor.
40.00
              Pits impracticable.
              Top of peak and descend.
42.50
 51.40
              Cross wash 10 lks. wide course S. W. and ascend.
              Intersect Third Standard Parallel South 13.15 chs.w.
 80.24
              of the standard cor. of secs. 32 and 35, and set a
             granite stone 20 x 10 x 6 ins. 15 ins. in the ground for closing cor. of secs. 4 and 5, marked C C on S. 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, S.
              of cor. Pits impracticable.
              Land mountainous.
              Soil rocky; 4th. rate.
             No timber.
             Mountainous land 80.24 chains.
             From the cor. of secs. 5, 6, 31 and 32 on the S. bdy.
             of the Tp.
             I now run.
N. 0° 03' W. bet. secs. 31 and 32.

***Conding over rolling foothills.
             Set a granite stone 28 x 5 x 4 ins. 21 ins. in the ground for 1 sec. cor. marked 1 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.
 40.00
             Set a granite stone 14 x 10 x 4 ins. 9 ins. in the
80.00
             ground for cor. of secs. 29, 30, 31 and 32, marked
             with 1 notch on S. and 5 notches on E. edges; dig pits 18 x 18 x 12 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, hilly.
             Soil, sandy and loamy; 1st. rate.
             No timber.
             Mountainous land 80.00 chains.
             April 30; at this cor. I set off 14° 45 % on the decl. arc; and observe the sun on the meridian at neen; the
             resulting latitude is 32° 00' N.
            East on a random line bet. secs. 29 and 32.
            Set temp. 4 sec. cor.
Intersect N. and S. line 7 lks. S. of the cor. of
secs. 28, 29, 32 and 33.
40.00
80.02
           Thence I run

N. 89° 57' W. on a true line bet. secs. 29 and 32.
  5.
            Over rolling foothills.
            Set a granite stone 16 x 8 x 5 ins. 11 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on $\frac{1}{4}$. face; dig pits 18 x 18 x 12 ins. E. and W. of cer. 3 ft. dist.; and raraise a mound of earth $5 1/2 ft. base 1 1/2 ft. high
40.01
            N. of cor.
80.02
            The cor. of secs. 29, 30, 31 and 32.
            Land, Mountainous.
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Soil, grayelly; 3rd. rate.

No timber.

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		cubdivision of an 16 c Pe 10 a
	Chains	Mountainous land 80.02 chains.
	40.00 78.54	West on a random line bet. secs. 30 and 31 Set temp. \(\frac{1}{2}\) sec. cor. Intersect W. bdy. of Tp. 9 lks. S. of the cor. of secs. 25, 30, 31 and 35. Thence I run
	38.54	S. 89° 56' E. on a true line bet. secs. 30 and 31. Over rolling foothills. Set a granite stone 14 x 10 x 4 ins. 9 ins. in the ground for ½ sec. cor. marked ½ on N. face; dig pits 18 x 18 x 12 ins. E. and W. of stone 3 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft.
	78.54	high N. of cor. The cor. of secs. 29; 30, 31 and 32. Land mountainous. Seil, sandy 2nd. rate. No timber. Mountainous land 78.54 chains.
	•	
	30.00 40.00	N.0° W. bet. secs. 29 and 30. ***Cross wash 30 lks. wide course N. E. Set a granite stone 20 x 6 x 5 ins. 15 ins. in the ground for \$\frac{1}{2}\$ sec. cor. marked \$\frac{1}{2}\$ on W. face; dig pits
		18 x 18 x 12 ins. N. and S. of cor. 3 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high W. of cor.
	50.40 61.75 80.00	Cross wash 10 lks. wide course N. E. Cross wash 80 lks. wide course E. Set a granite stone 15 x 12 x 3 ins. 9 ins. in the ground for cer. of secs. 19, 20, 29 and 30 marked with 2 netches on S. and 5 netches on E. edges; dig pits 18 x 18 x 12 ins. in each sec 5 1/2 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high W. of cer. Land, mountainous. Soil. sandy; 2nd. rate.
•		No timber. Mountainous land 80.00 chains. April 30,1905.
		May 1: At 7h. 00m. a.m. l.m.t. 1 set off 32° 01' N. on the lat. arc; 15° 00 1/2' N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 19, 20, 29 and 30. Thence I run
	40.00 79.90	N. 89° 57' E. on a random line bet. secs. 20 and 29. Set temp. } sec. cor. Intersect N. and S. line 12 lks. S. of the cor. of secs. 20, 21, 28 and 29. Thence I run
	0.14	S. 89° 52' W. on a true line bet. secs. 20 and 29. (Over rolling foothills. Ords wash 6 lks. wide course N. Cross wash 15 lks. wide course N. E.
•	27.50 39.95	Cross wash 10 1ks. wide course N. E. Set a granite stone 18 x 6 x 4 ins. 12 ins. in the ground for 1 sec. cor. marked 1 on N. face; dig pits 18 x 18 x 12 ins. E. and W. of stone 3 ft. dist.; and raise a mound of earth 3 1/2 ft. base 1 121/2 ft. high N. of cor.
	41.85 46.40 49.75 51.25 58.60	Cross wash 10 lks. wide course N. W. Cross wash 15 lks. wide course N. E. Cross dry creek 25 lks. wide course N. W. Cross wash 15 lks. wide course N. E. Cross dry creek 30 lks. wide course N. E.
	.72.50	Cross wash 10 lks. wide o urse N. E.
	79.90	The cor. of secs, 19, 20, 29 and 50,

Subdivision of Tp. 16 S. Rg. 19 E.

	Subdivision of Tp. 16 S. Rg. 19 E.
Onamo	Land, Mountainous. Soil, sandy; 2nd. rate. No timber.
,	Mountainous land, 79.90 chains.
40.00	
78.43	secs. 19, 24, 25 and 30. Thence I run
58.45	S. 89° 58' E. on a true line bet. secs. 19 and 30. Over relling foothills. Set a granite stone 18 x 12 x 6 ins. 12 ins. in the
2551	ground for 1 sec. cor. marked 1 on N. face; dig pits 18 x 18 x 12 ins. R. and W. of stone 3 ft. dist. and
39.45	
60.95 73.85 78.43	Cross wash 20 lks. wide course N. E.
	Land hilly. Soil, sandy; 2nd. rate. No timber.
	Mountainous land %8.45 chains.
	N.0° 03' W. bet. secs. 19 and 20.
7.00	Cross wash 40 lks. wide course N. E. Set a granite stone 18 x 8 x 6 ins. 12 ins in the ground for 1 sec. cor. marked 1 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.
41.25	Cross wash 20 lks. wide course N. E. Cross same wash course N. W.
45.60 51.50 59.00	Cross wash 20 lks. wide course N. E. Cross wash 25 lks. wide course N. E.
61.00 69.45 75.000	Cross mash 10 lks. wide course E.
78.7 5	Cross Wash 5 lks. wide course S. E.
•	raise a mound of stone 2 ft. base 1 1/2 ft. high w
	of cor. Pits impracticable. Land Mountainous. Soil, stony; 4th. rate.
	Mountainous land 80.00 chains. May 1: at this cor. I set off 15° 03' N. on the decl.
	arc; and observe the sun on the meridian at noon; the resulting lat. is 32° 01 1/2' N.
40.00	N.89° 52' E. on a random line bet. secs. 17 and 20. Set temp. 4 sec. cor.
79.82	Intersect N. and S. line 9 lks. N. of the cer. of secs. 16, 17, 20 and 21. Thence I run
8.00	S. 89° 56' W. on a true line bet. secs. 17 and 20. Over rolling feethills. Cross dry creek 30 1ks. wide course N.
22:00 51.50	Gross wash 20 lks. wid ecourse N. E. Cross wash in bend 15 lks. wide, course N. E. bears N. W.
39.91	Set a granite stone 20 x 10 x 4 ins. 15 ins. in the ground for \(\frac{1}{2}\) sec, cor. marked \(\frac{1}{2}\) on N, face; dig pits

Subdivision of Tp. 16 S. Rg. 19 E.

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18 x 18 x 12 ins. E. and W. of stone 3 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high
            N. of cor.
            Cross wash 25 lks. wide course N. E. Cross wash 20 lks. wide course S. E.
51.00
56.50
             cross wash 10 lks. wide course S. E.
75.00
             The cor. of secs. 17, 18,19 and 20.
79.82
            Land hilly.
            soil, sandy; 2nd. rate.
             No timber.
             Mountainous land 79.82 chains.
         N.29° 58° W. on a random line bet. secs. 18 and 19. seset temp. 2 sec. cor. Intersect W. bdy. of Tp. 5 lks. N. of the cer. of secs.
40.00
78.30
           13, 18, 19 and 24.
             Thence I run
             East on a true line bet. secs. 18 and 19.
            Over rolling foothills.
Cross wash 10 1ks. wide course N. E.
10.50
             cross wash 25 lks. wide course N. E.
27.00
          cross wash 10 lks. wide course N. E. cross wash 20 lks. wide course N. Cross wash 10 lks. wide course N. W.
31.90
34.70
36.80
             Set a granite stone 18 x 6 x 4 ins. 12 ins. in the
38.30
             ground for \frac{1}{4} sec. eer. marked \frac{1}{4} on N. face; dig pits 18 x 18 x 12 ins. E. and W. od stone 3 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft.
             high N. of cor.
             cross wash'8 lks. wide course N. E.
45.20
             cross wash 10 lks. wide course N. E.
49.25
             Cross wash 5 lks. wide course S. E. The cor. of secs. 17, 18, 19 and 20.
76.80
78.30
             Land, mountainous.
             Soil, stony; 4th. rate.
             No timber.
             Mountainous land 78.30 chains.
             N.0° QE" W. bet. secs. 17 and 18.
             Over rolling mountainous land:
            Cross wash 10 lks. wide course N. E.

Cross wash 15 lks. wide course N. E.

Cross dry creek 25 lks. wide course N. E. and catend

set a granite stone 26 x 8 x 6 ins. 19 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.
  5.25
 12.00
 32.00
  40.00
             Pits impracticable:
             Top of ridge bears N. W. and S. E. and descend.
  49.50
             cross wash 8 1ks. wide course'N. E. and ascend.
  57.40
  65.00
             Top of ridge E. and W. and descend.
            cross wash 8 lks. wide course N. E. and account set a granite 20 x 8 x 4 ins. 15 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
  71.00
  80.00
             mound of stone 2 ft. base 1 1/2 ft. high w. of cor.
             Pats impractacable.
             Land mountainous.
             Soil rocky; 4th. rate.
             No timber.
             Mountainous land 80.00 chains.
                                                                 May 1: 1905
             May 2: At 7h. 00m. a.m. l.m.t., I set off 52° 02 1/2' N. on the lat. arc; 15° 18 1/2 N. on the decl arc; and determine a meridian with the solar at the cor.
             of secs. 7, 8, 17 and 18
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Thence I run N. 89 56 E. on a random line bet. secs. 8 and 17.

		BOOK 1891
_		Subdivision of Tp. 16 S. Rg. 19 E.
	40.00	Set temp. ½ sec cor.
	79.80	Intercect N and C. line W like N
	10.00	Intersect N. and S. line 7 lks. N. of the cor. of secs. 8, 9, 16 and 17.
		Thence I run
		C 900 : 50 W on a two I the hat
		S. 89° 59' W. on a true line bet. secs. 8 and 17. Over valley through dense brush.
	1.40	Cross creek 4 lks. wide lin. deep course s.
	27.00	Cross Picheco Creek, running stream 50 lks. wide course
	2	S. E.
	39.90	
		ground for 1 sec. cor. marked 1 on N. face; dig pits
		18 x 18 x 12 ins. E. and W. of stone 3 ft. dist. and
		raise a moundof earth 3 1/2 ft. base 1 1/2 ft. high.
		N, of cor.
		Thence ascend over mountainous land and leave brush.
	42.00	Cross wash 10 lks. wide course N. E.
	51.50	Cross wash 8 lks. wide course N. E.
	58.00	Cross wash 15 lks. wide course N. E.
	79.80	The cor. of secs. 7, 8, 17 and 18.
		Land, level and mountainous.
		Soil, sandy and rocky; 2nd. and 4th. rate.
		Mo few oaks along creek.
		Undergrowth mesquite.
	1	Mountainous land or land covered with dense undergrowth
		79.80 chains.
		West on a true line bet. secs 7 and 18.
	33.00	Ascending rough E. slope of mountain.
	11.00	A small spring bears S. 1.00 chn. dist. stream runs
	31.00	
	40.00	Top of mountain ridge bears N. W. and S. E. and descend
	10.00	Set a granite stone 20 x 10 x 6 ins. in a mound of stone for 1 sec. cor. marked 1 on N. face; and raise a
٠		mound of stone 2 ft. base 1 1/2 ft. high N. of cor.
		Pitd impracticable.
	60.00	Cross wash 25 lks. wide course S. E.
	75.00	Cross wash 20 lks. wide course S. E.
	78.25	Intersect W. bdy. of Tp. 5.40 chains N. of the cor.
		secs. 12 and 13 and Set a granite 18 x 12 x 6 ins.
	. —	ins. in the ground for closing cor. of secs 7 and 18
		marked C C on E. face; and 4 grooves on S. and 2 groove
		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, rocky; 4th. rate.
		No timber.
	7.0	Mountainous land 78.25 chains.
	1.0	
		N 00 001 W 1-4
		N. 0° 03' W. bet. secs. 7 and 8
	7.00	Descending N. slpoe of mountain.
	15.20	Cross wash 10 lks. wide course N. E.
	26.45	Cross wash 10 lks. wide course N. E.
·	39.00	Cross Richeco Creek munning street N. E.
	00.00	Cross Picheco Creek, running stream. 75 lks. wide
	40.00	course S. E. and ascend rough S. slpoe of mountain. 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 W. face: from
		which
		A sycamore 12 ins. diam bears S. 36 1/2° E. 19
		lks. dist. marked $\frac{1}{4}$ S 8 B T
		A sycamore 12 ins. diam. bears N. 67 \(\frac{1}{4}\) \(\frac{1}{4}\) \(\frac{1}{4}\)
1		lks. dist. marked 4 S 7 B T
	45.00	Cross road bears N. W. and S. E.
	50.00	Cross wash 8 lks. wide course S. E.
	57.40	Cross same wash 8 lks. wide course S. W.
	1.75	the contract of the contract o

57.40 65.25 80.00

Cross same tash 8 lks. wide course S. W. Crass wash 10 lks. wide course S. W. Set a granite stone 18 x 12 x 4 ins. 12 ins. in the ground for cor. of secs. 5, 6, 7 and 8, marked with

5 Detahes an

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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. the N. E. cor. of M. Picheco's house
             bears S. 31° 52' W. 14.80 chains dist.
             Land mountainous.
             Soil, rocky; 4th. rate.
             A few sycamores along creek.
             Mountainous land 80.00 chains.
             May 2: at this cor. I set off 15° 21' N. on the decl.
             arc; and observe the sun on the meridian at noon;
             the resulting latitude is 32° 03 1/2' N.
             N. 89° 59' E. on a random line bet. secs. 5 and 8. Set temp. 4 sec. cor.
40.00
             Intersect N. and S. line 3 lks. S. of the cor. of secs.
79.90
             4, 5, 8, and 9. Thence I run S. 29° 58' W. on a true line bet. secs.
              5 and 8.
             Over rough S. slope of mountains. Cross wash 20 lks. wide course S.
8.20
             cross wash 20 lks. wide course S.
34.40
             Set a granite stone 26 x 8 x 6 ins. 19 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.
39,95
             Pits impracticable.
             Cross wash 20 lks. wide course S. E.
58.40
69.70
             Cross wash 8 lks. wide course S. E. The cor. of secs. 5, 6, 7 and 8.
79.90
             Land mountainous.
             Soil, rocky; 4th. rate.
             No timber.
             Mountainous land 79.90 chains.
             west on a true line bet secs. 6 and 7.
             Descending rough S. W. slope of mountain.
3.00
             Cross gulch 10 lks. wide course Cross road bears N. W. and S. E.
             Cross road bears N. W. and S. E.
Cross Picheco Creek, running stream 50 lks. lide
course S. E. and ascend rough E. slope of mintains.
17.50
23.50
             Set a granite stone 20 x 8 x 6 ins. 15 ins. in the ground for 1 sec. cor. marked 1 on N. face; and raise a mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable.
40,00
             Intersect W. bdy. of Tp. 6.51 chains N. of the cor. of secs. 1 and 12. and set a granite stene 18 x 12 x 5
  78.11
             ins. 12 ins. in the ground for cor. of secs. 6 and 7: marked C C on E. and 5 grooves on S. and 1 greove 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, rocky; 4 th. rate.
              A few sycamores along creek.
              Mountainous land 78.11 chains.
              N. 0° 03' W. bet. secs. 5 and 6.
Ascending rough S. W. slope of mountains.
              Set a granite stone 28 x 14 x 7 ins. in a mound of stone for 1 sec. cor. marked 1 on W. face; and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor.
  40.00
              Pits impracticable.
              Intersect Third Standard Parallel South 13.07 chs. W.
  80.05
              of the cor. of secs. 31 and 32 and set a granite stone 24 x 10 x 4 ins. 18 ins. in the ground for closing cor. of secs. 5 and 6 marked C C on S. and 5 grooves on E. and 1 groove on W. faces; and raise a mou
              mound of stone 2 ft. base 1 1/2 ft. high S. of cor.
              Pits impracticable
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Subdivision of Tp. 16 S. Rg. 19 E.

Land mountainous.

Soil rocky; 4th. rate.

No timber.

Mountainous land 80.05 chains

General Les Cription 1905.

This Township is broken and mountainous in the northern part and rolling foothills in the southern part, and the soil ranges from a sandy loam to worthless.,

There are a few scattered oaks and sycamores along Picheco Creek but no other timber.

The Tp. is watered by Picheco Creek, which runs through the northern portion, during the wet season, at other times it is dry. There is no other water in the Tp.

There is one settler each in secs. 7, 10, and 12 and two in sec. 11.

U. S. Deputy Surveyor.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

BOOK	1891	
BOOK	109	•

LIST OF NAMES.

A list of the names of the individuals employed by John F. Hesse	***************************************
United States Deputy Surveyor, to assist in 1	running, measuring, and
narking the lines and corners described in the foregoing field notes of the survey	,
onal lines of Tp. 16 S. Rg. 19 E.	
howing the respective capacities in which they acted:	
W. W. Oliver	
F. M. Hyde	
J. I. Nunez	
T O on the	
L. G. Smith	$\dots, Flagman.$
FINAL OATH OF ASSISTANTS.	
We hereby certify that we assisted John F. Hesse	· · · · · · · · · · · · · · · · · · ·
, United States Deputy Sur	rveyor, in surveying all
nose parts or portions of the subdivisional lines of Tp. 16 S. R	······································
d Salt River meridian, Territory of Arizona	of the G11a , which are represented
the foregoing field notes as having been surveyed by him and under his direction s been in all respects, to the best of our knowledge and belief, well and faithf	, which are represented a; and that said survey fully surveyed, and the
the foregoing field notes as having been surveyed by him and under his direction is been in all respects, to the best of our knowledge and belief, well and faithfuner monuments established, according to the instructions furnished by the Universal for Arizona	, which are represented a; and that said survey fully surveyed, and the United States Surveyor
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the foregoing field notes as having been surveyed by him and under his direction is been in all respects, to the best of our knowledge and belief, well and faithfuner monuments established, according to the instructions furnished by the University of Mariana and Mariana. M. M. M. Hydle J.	of the G11a , which are represented a; and that said survey fully surveyed, and the United States Surveyor , Chainman. , Chainman. , Moundman.
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the foregoing field notes as having been surveyed by him and under his direction is been in all respects, to the best of our knowledge and belief, well and faithfuner monuments established, according to the instructions furnished by the Uneral for Arizona W. W. W. J.	of the G11a , which are represented a; and that said survey fully surveyed, and the United States Surveyor , Chainman. , Chainman. , Moundman.
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the foregoing field notes as having been surveyed by him and under his direction as been in all respects, to the best of our knowledge and belief, well and faithfuner monuments established, according to the instructions furnished by the University of Marie Arizona W. W. W. S. M. Hyde J. J	of the G11a which are represented a; and that said survey fully surveyed, and the United States Surveyor Chainman. Chainman. Moundman. Moundman. Axman.
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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR. **BOOK** 1891 I, John F. Hosse , 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 24th. day of January , 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 Subdivisional lines of Tp. 16 S. Rg. 19 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 I. Kesse United States Deputy Surveyor. Subscribed by said John & Hessa, and sworn to before me) Trank & Ingalled W & Dikroey ov Ganeral for armona APPROVAL. OFFICE OF THE UNITED STATES SURVEYOR GENERAL Phrenix at Spril 5, 1906 The foregoing field notes of the survey of the subdivisional lines of 116 D., Q. 19 E., of the Gila and Dalt Piver Base and Meredian in the territory of arizona.

the security of the field potes of the above described surveys in

Las been correctly copied from the original notes on file in this office.

United States Surveyor General.