2269 Accepted May 31-19/2

FIELD NOTES

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Alfred	A Oliver		
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n the capacity of U.S. Surveyor	man)	The flag	+1/
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ssued by the United States	Surveyor General t	o govern/surveys	included
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INDEX DIAGRAM.

Townsh	hip		., Range		
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INDEX DIAGRAM

Towns	ship		, Range		
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Meanders Page

6—151

PRELIMINARY OATHS OF ASSISTANTS.

	and Clay Dodlow and C.S. Crower-
do solemnly swear that we will well and faithfully ex-	ecute the duties of chainmen; that we will level the
chain upon even and uneven ground, and plumb the tal	
we will report the true distances to all notable object	s, and the true lengths of all lines that we assist in
measuring, to the best of our skill and ability, and in a	ccordance with instructions given us, in the survey of
the Phird Guide Meridian Week	
16% W.	1. U. Coonto., Chainman.
	MD Janne, Chainman.
· · · · · · · · · · · · · · · · · · ·	1 l + marlson
Subscribed and sworn to before me this 23 nd	le la
day of april , 1911	Court
day or	alfred M. Oliver
W SEAL W	11. Fransitman
後後後後後	M. J. Burne
·· -)	and
do solemnly swear that we will well and truly per	form the duties of moundmen in the establishment
of corners, according to the instructions given us, t	so the best of our skill and ability, in the survey of
the Phind Guide Meredian Wes	through Ips 13, 14, 15, 16 and
161/2 20.	R. L. Bales, Moundman.
·	19 - p. 10 ases, Mounaman.
	, Moundman.
and the second this 23rd	•
Subscribed and sworn to before me this 23 nd	{
day of	ally of Oliver
	1100 '+
**************************************	4. S. mansuman
WE, Ed. Brockway	and Q.O. Ellis
	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
	through Pps. 13, 14, 15, 16 and
me mun saud - andicoro o	
16 1/2 71.	
16½ W.	Ed Brockway, Axman.
16½ W.	
Subscribed and sworn to before me this 23 dd	
Subscribed and sworn to before me this 23 4	
Subscribed and sworn to before me this 23 id day of fill 1911	Elling, Axman. J. Clling, Axman. M. Clins M. Clins M. S. Transituran
Subscribed and sworn to before me this 23 rd day of April , 1911 I, Manufessel	Substance Axman. Axman. Axman. Axman. Axman. Axman. MS Instantionan do solemnly swear that I will well and truly
Subscribed and sworn to before me this 23 dd day of first the last the seal of	Axman. Axman. Axman. Axman. Axman. Mosolemnly swear that I will well and truly ons given me, to the best of my skill and ability, in the
Subscribed and sworn to before me this 23 dd day of first the last the seal of	Substance Axman. Axman. Axman. Axman. Axman. Axman. MS Instantionan do solemnly swear that I will well and truly
Subscribed and sworn to before me this 23 dd day of first the last the seal of	Axman. Axman.
Subscribed and sworn to before me this 23 dd day of April ,1911 I, Shunfessel perform the duties of flagman according to instruction survey of the Mand Suide Mendian and 16 2 M.	Asman. Asman.
Subscribed and sworn to before me this 23 dd day of April ,1911 I, Shunfessel perform the duties of flagman according to instruction survey of the line Guide Mendian and 16 2 M.	Axman. Axman. Axman. Axman. Axman. Axman. Mosolemnly swear that I will well and truly ons given me, to the best of my skill and ability, in the West through Pps. 13.14.15.16. Axman.
Subscribed and sworn to before me this 23 rd day of April , 1911 I, Shunfessel perform the duties of flagman according to instruction survey of the third Suide Meridian and 16 2 20. Subscribed and sworn to before me this 23 rd.	Axman. Axman. Axman. Axman. Axman. Axman. Mosolemnly swear that I will well and truly ons given me, to the best of my skill and ability, in the West through Pps. 13.14.15.16. Axman.
Subscribed and sworn to before me this 23 dd day of April ,1911 I, Shunfessel perform the duties of flagman according to instruction survey of the line Guide Mendian and 16 2 M.	Axman. Axman. Axman. Axman. Axman. Axman. Mosolemnly swear that I will well and truly ons given me, to the best of my skill and ability, in the West through Pps. 13.14.15.16. Axman.

TIJA. R 13W. T/6/2 R/3W. T/6/27. RIZW. T167. R13W. T1671.RIW. 24 25 36 T15-7.R13W. TISA. RIZW 25 36 31 T14 71. R13W TI49: R12W 36

T1371. R. 13W.

7/3 n. R12 W.

25 V 3.

36 January Par. N.

Third Guide Meradian West through Tp. 13 N.

Chains.

Survey commenced April 23, 1911, and executed with a W. and L. E. Gurley solar compass, not numbered. herizontal 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 and approved by the super-

vising surveyor for Arizona

I examine the adjustments of the compass 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 Standard cor. of Tps. 13 N. Rgs. 12 and 13 W. A latitude 34° 25' 09" N.; longitude 113° 33' 24" W.; I set off 34° 25' N. on the lat. arc: 12° 26½' N. on the decl. arc: and. at 5h. 00m. p.m. lemate. determine with

decl. arc; and, at 5h. OOm. p.m., l.m.t., determine with the solar a meridian and mark a point thereof, on a stone firmly set in the ground, 5 chs. N. of my station.

April 23, 1911

April 24: At 5h. 25m. a.m., by my watch which has correct 1.m.t., I observe Polaris at eastern elongation, in accordance with Manual of instructions, and mark a point in the line thus determined, on a peg driven in the

ground 5 chs. N. of my station.

At 6h. 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 the stone set April 23, on which the meridian coincides with the mark determined by the solar.

At 7h. 00m. a.m., l.m.t., I set off 34° 25' N. on the lat. arc; 12° 38½' 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 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 instrument are satisfactory.

The magnetic bearing of the true meridian at 7h. 15m. a.m. is N. 14° 30' W.; the angle thus determined gives the mag. decl. 14° 30' E.

From the standard cor. of Tps. 13 N. Rgs. 12 and 13 W. I now run

North bet. secs. 31 and 36

Ascending steep rocky ridge.
Cross drain 10 lks. wide course S. E.
Ridge bears N. W. and S. E. and along E. slope of mount-

Difference between measurements of 40.00 chs. by two sets of chainmen 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 an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for 4 sec. cor., marked on brass cap 4836 in W. and S31 in E. half; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Ridge bears E. and W. and along W. slope of ridge.

Drain 5 lks. wide course S. W. Drain 5 lks. wide course S. W.

Ridge bears E. and W. Descend through granite boulders. Cross wash 15 lks. wide course W. and ascend. Difference between measurements of 80.00 chs. by two

sets of chainmen is 12 lks.; position of middle point

30.00

7.55

40.00

43.50 54.50

59.00 70.80

77.00

Third Guide Meridian West, through Tp. 13 N. chains. By 1st. set 80.06 chs.

By 2nd. set 79.94 chs.; the mean of which is
Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in
the ground for cor. of secs. 25, 30, 31 and 36, marked 80.00 on brass cap Tl3N in N. half; 825 in N. W. \$30 in N. E. 931 in S. E. and S36 in S. W. quadrant; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, mountainous. Soil, rocky; 4th. rate. No timber. Undergrowth, greasewood, paloverde, mesquite and cactus. North bet. secs.255 and 30 Ascend steep rocky S. W. slope of mountain. .33.00 Top monntain and descend. Difference between measurements of 40.00 chs. by two sets of chainmen is 10 lks. position of middle point By 1st. set 40.05 chs. By 2nd. set \$9.95 chs.; the mean of which is Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for \$\frac{1}{4}\$ sec. cor., marked on brass cap \$\frac{1}{4}\$S25 in W. and S30 in E. half; and raise a mound of stone 2 ft. base \$1\frac{1}{2}\$ ft. high, W. of cor. Pits impracticable. 40.00 Wash 30 lks. wide course N. W. 55,60 68.70 Cross wash 25 lks. wide course W. and ascend. Difference between measurements of 80.00 chs. by two sets of chainmen is 14 lks. position of middle point By 1st. set 80.07 chs. By 2nd. set 79.93 chs.; the mean of which is Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 19, 24, 25 and 30, marked 80.00 on brass cap T13N in N. half; R13WS24 in N. W. Rlaws19 in N. E. S30 in S. E. and S25 in S. W. quadrant; and raise a mound of stone 2 ft. base 12 ft. high, W. of cor. Pits impracticable. Land, Mountainous. Soil, rocks; 4th. rate. No timber. Undergrowth, greasewood, paloverde and cactus.

April 24: At this cor. I set off 12° 412' N. on the decl arc; and observe the sun on the meridian at noon; the resulting lat. is 34° 27' N. North bet. secs. 19 and 24 Ascending steep S. E. slope of mountain through dense brush. Difference between measurements of 40.00 chs. by two sets of chainmen 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 an iron post 3 ft. long, 1 in. diam., 26 ins. in
the ground for t sec. cor., marked on brass cap t524 in
W. and S19 in E. half; and raise a mound of stone 2 ft. 40.00 base 12 ft. high, W. of cor. Pits impracticable. Ridge bears E. and W. descend. Cross wash 25 lks. wide course W. ascend. Cross wash 25 lks. wide course S.W. 48.70 65.50 75.85 Difference between measurements of 80.00 che. by two sets of chainmen is 12 lks. position of middle point

By 1st. set 80.06 chs.

3

Third Guide Meridian West, through Tp. 13 N. Chains. By 2nd. set 79.94 chs.; the mean of which is Set an iron post 3 ft. long, 3 ins. diam. 24 ins. in the ground for cor. of secs. 13, 18, 19 and 24, marked 80.00 on brass cap Tl3N in N. half; Bl3WSl3 in N. W. Rl2WSl8 in N. E. \$19 in S. E. and \$24 in S. W. quadrant; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, mountainous. Soil, decomposed granite and rocks; 4th. rate. No timber. Undergrowth, greasewood, paloverde and mesquite. North bet. secs. 13 and 18 Ascending steep rocky S. slope through dense brush. Ridge bears E. and W. descend. 5.00 Cross wash 25 lks. wide course N. W. ascend. Ridge bears E. and W. descend. 28.00 34.50 Difference between measurements of 40.00 chs. by two sets of chainmen is 4 lks. position of middle point By 1st. set 40.02 chs. By 2nd. set 39.98 chs.; the mean of which is Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for \$\frac{1}{4}\$ sec. cor., marked on brass cap \$\frac{1}{4}\$S13 in W. and \$S18 in F. half; and raise a mound of stone 2 ft. 40.00 base 12 ft. high, W. of cor. Pits impracticable. Cross wash 100 lks. wide course W. ascend. Cross drain 7 lks. wide course S. W. 41.00 47.00 Ridge bears E. and W. descend along N. W. slope. 52.00 56.50 Cross drain 6 lks. wide course N. W. Cross wash 50 lks. wide course W. and ascend along S. W. 69.00 slope Difference between measurements of 80.00 chs. by two sets of chainmen is 6 lks. position of middle point By 1st. set 80.03 chs. By 3nd. set 79.97 chs.; the mean of which is Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 7, 12, 13 and 18, marked 80.00 on brass cap Tl3N in N. half; R13WS12 in N. W. R12WS7 in N. E. S. 18 in S. E. and \$13 in S. W. quadrant; and raise a mound of stone 2 ft. base 12 ft. high, W. of cor. Pits impracticable. Land, mountainous. Soil, decomposed granite and boulders; 4th. rate. No timber. Undergrowth, greasewood, paloverde, mesquite and cactus. April 24, 1911. April 25: At 7h. 00m. a.m., l.m.t., I set off 34° $28\frac{1}{2}^{\circ}$ N. on the lat. arc; 12° 58' N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 7, 12, 13 and 18 Thence I run

North bet. secs. 7 and 12

Ascending along S. W. slope
Ridge bears E. and W. descend along N. W. slope.
Cross wash 30 lks. wide course W.
Ridge hears E. and W. 6.00 21.00

23.50

Cross wash 60 lks. wide course W. 26.00

35.50 Ridge bears E. and W.

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Third Guide Meridian West, through Tp. 13 N.
Chains
            Cross wash 20 lks. wide course S. W.
 38.00
            Difference between measurements of 40.00 chs. by two sets
            of chainmen 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 an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$S12 in W. and $7 in E. half; and raise a mound of stone 2 ft.
 40.00
              base 12 ft. high W. of cor. Pits impracticable.
             Cross wash 20 lks. wide course S. W. Ridge bears E. and W.
 43.85
 48.00
              Cross wash course S. W.
 50.00
             Ridge bears E. and W.
 55.00
              Cross wash 15 lks. wide course S. W.
 57.00
             Ridge bears E. and W.
 66.50
             Cross road bears E. and W. from Hillside to Signal. Difference between measurements of 80.00 chs. by two
 73.15
              sets of chainmen is 10 lks. position of middle point
                        By 1st. set 80.05 chs.
             By 2nd. set 79.95 chs.; the mean of which is Point for cor. of secs. 1, 6, 7 and 12 falls in wash 75 lks. wide course S. W. I chain S. 50 lks. and at Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for witness cor. to cor. of secs. 1, 6, 7
 80.00
 79.50
              and 12 marked on brass cap
              WC S. of center; Tl3N in N. half;
              R13WS1 in N. W.
              R12WS6 in N. E.
              S7 in S. E. and
             S13 in S. W. quadrant; and raise a mound of stone 2 ft. base 1\frac{1}{2} ft. high, W. of cor. Pits impracticable.
              Land, mountainous.
              Soil, decomposed granite and rocks; 4th. rate.
              No timber.
              Undergrowth, greasewood, paloverde, mesquite and cactus.
              North bet. secs. 1 and 6
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Ascending through dense brush.

4.30 Ridge bears E. and W.

Cross wash 30 lks. wide course W. 11.50

Ridge bears E. and W. descend. 18.00

28.00

Cross drain 5 lks. wide course N. W. Cross wash 25 lks. wide course S. W. ascend. Difference between measurements of 40.00 chs. by two 35.15 sets of chainmen is 4 lks. position of middle point By 1st. set 40.02 chs.

By 2nd. set 40.02 cns.

By 2nd. set 39.98 chs.; the mean of which is

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

ground for 4 sec. cor., marked on brass cap 481 in W.

and 86 in E. half; and raise a mound of stone 2 ft. base

1½ ft. high, W. of cor. Pits impracticable.

Ridge bears E. and W.

Cross wash 30 lks. wide course W. and accord atom. 40.00

43.25

Cross wash 30 lks. wide course W. and ascend steep rocky 50.00 hill.

63.00 Top of hill. Descend.

Cross wash 15 lks. wide course W. 73.00

79.00 Ridge bears E. and W. Difference between measurements of 80.00 chs. by two sets of chainmen 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 an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of Tps. 13 and 14 N. Rgs. 12 and 13 80.00 W. marked on brass cap Tl4N in N. R12W in E. T13N in S. and

Third Guide Meridian West, through Tp. 13 N.

5

Chains.

RISW in W. half;
S36 in N. W.
S31 in N. E.
S6 in S. E. and
S1 in S. W. quadrant; and raise a mound of stone 2 ft.
base 1½ ft. high, S. of cor. Pits impracticable.
Land, mountainous
Soil, rocks and decomposed gravel; 4th. rate.
No timber.
Undergrowth, greasewood, paloverde, mesquite and cactus.
April 25: At this cor. I set off 13° 01' N. on the decl.
arc; and observe the sun on the meridian at noon; the resulting lat. is 34° 30½' N.

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Third Guide Meridian West, through Tp. 14 N.
               North bet. secs. 31 and 36
Over rough broken land, through dense brush
Cross drain 6 lks. wide course W.
Chains,
 1.75
               Ridge bears E. and W.
10.50
               Wash 70 lks. wide course W.
13.00
               Cross wash 40 lks. wide course N. W. Ridge bears E. and W.
17.50
28.00
               Cross wash 30 lks. wide course W.
34.00
               Cross drain 5 lks. wide course N. E.
39.40
               Difference between measurements of 40.00 chs. by two
               sets of chainmen is 8 lks. position of middle point
               By 1st. set 40.04 chs.

By 3nd. set 39.96 chs.; the mean of which is

Set an iron post 3 ft. long, 1 in. diam., 26 ins. in
the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$S6
in W. and S31 in E. half; and raise a mound of stone 2

ft. base 14 ft. bigh W. of cor. Bita immediately.
40.00
               ft. base la ft. high, W. of cor. Pits impracticable. Cross old road bears N. E. and S. W.
45.75
48.00
               Cross wash 10 lks. wide course W.
               Ridge bears E. and W.
56.00
               Cross wash 15 lks. wide course W. Ridge bears E. and W. Cross wash 50 lks. wide course W.
57.00
67.00
73.00
78.50
               Ridge bears E. and W.
                Fifference between measurements of 80.00 chs. by two
               sets of chainmen is 14 lks. position of middle point

By 1st. set 80.07 chs.

By 2nd. set 79.93 chs.; the mean of which is

Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in
the ground for cor. of secs. 25, 30, 31 and 36, marked
80.00
                on brass cap
                Tl4N in N. half;
                $25 in N. W.
                S30 in N. E.
                S31 in S. E. and S36 in S. W. quadrant; and raise a mound of stone 2 ft. base 1½ ft. high, W. of cor. Pits impracticable. Land, rough and broken.
                Soil, rocks and decomposed granite, 4th. rate.
                No timber.
                Undergrowth, greasewood, paloverde, mesquite and cactus.
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North bet. secs. 25 and 30
              Over rough broken land. Cross wash 15 lks. wide course W.
 1.90
              Ridge bears E. and W.
 6.40
              Cross wash 50 lks. wide course N. W.
12.50
16.00
              Ridge bears E. and W.
              Cross wash 15 lks. wide course W. Ridge bears E. and W. Cross wash 15 lks. wide course N. W.
18.40
22.50
25.75
              Ridge bears E. and W.
28.00
              Cross wash 50 lks. wide course N. W.
33.00
              Difference between measurements of 40.00 chs. by two
              By 1st. set 40.03 chs.

By 2nd. set 39.97 chs.; the mean of which is

Set an iron post 3 ft. long, 1 in. diam., 36 ins. in
the ground for $\frac{1}{2}$ sec. cor., marked on brass cap $\frac{1}{2}$S5 in
W. and $S50 in E. half; and raise a mound of stone 2 ft.
base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.

Ridge bears N. W. and S. E.
40.00
              Ridge bears N. W. and S. E.
42.20
              Cross wash 20 lks. wide course N. W.
48.50
              Ridge bears N. W. and S. E. Cross wash 15 lks. wide course N. W.
59.00
72.00
              Ridge bears S. E. and N. W.
75.00
              Difference between measurements of 80.00 chs. by two set
              sets of chainmen is 10 lks. position of middle point
                        By 1st. set 80.05 chs.
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BOOK 2269 Third Guide Meridian West, through Tr. 14 N. By 3nd. set 79.95 chs.; the mean of which is Point for cor. of secs. 19, 24, 25 and 30 falls in wash 00.08 20 lks. wide course N. W. Land, mountainous. Soil, decomposed granite and rocks; 4th. rate. No timber. Undergrowth, greasewood, paloverde, mesquite and cactus. April 25, 1911. April 26: At 7h. 00m., a.m., l.m.t., I set off 34° 32' N. on the lat. arc; 13° 18' N. on the decl. arc; and determine a meridian with the solar at the true point for cor. of secs. 19, 24, 25 and 30 Thence I run. North bet. secs. 19 and 24.

Pescending along N. W. slope of ridge.

Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for witness cor. to cor. of secs. 19, 24, 25 and 30, marked on brass cap 1.50 WC S. of center; Tl4N in N. half; R13W824 in N. W. R12W819 in N. F. \$30 in S. E. and S25 in S. W. quadrant; and raise a mound of stone 2 ft. base 12 ft. high, W. of cor. Pits impracticable. Leave hills and over level land. 23.50 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for witness & sec. cor., marked on brass cap WC in N. half; S19 in S. E. and S24 in S. W. quadrant; 38.50 dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist. and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high, W. of cor. 39.00 Left bank of Burro Creek course W. Difference between measurements of 40.00 chs. by two sets of chainmen is 2 lks. position of middle point By lat. set 40.01 chs. By 2nd. set 39.99 chs.; the mean of which is Point for t sec. cor., falls in bed of Eurro Creek. Cross water in bed of creek, 30 lks. wide 2 ins. deep, 40.00 53.50 course W. 64.00 Right bank of Burro Creek. Difference between measurements of 80.00 chs. by two sets of chainmen is 2 lks., positione of middle point By lst. set 80.01 chs. By 2nd. set 79.99 chs.; the mean of which is Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 13, 18, 19 and 24, marked 80.00 on brass cap Tl4N in N. half; R13WS13 in N. W. R12WS18 in N. E. \$19 in S. F. and \$24 in S. W. quadrant; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
Land, mountainous and level.
Soil, S. 23.50 chs. rocky; N. 56.50 chs. sand and gravel 4th. rate. NO timber. Undergrowth, greasewood, paloverde, mesquite and cactus.

North bet. secs. 13 and 18 Over level land through dense brush. 25.00 Cross wash 30 lks. wide course 'Sw.. and over rolling land. Ridge bears N. F. and S. W.

32.00

8

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Third Guide Meridian West, through Tp. 14 N.
Chains.
               Difference between measurements of 40.00 chs. by two
                sets of chairmen is 6 lks. position of middle point
               Sets of chairmen is 6 lks. position of middle point

By 1st. set 40.03 chs.

By 2nd. set 39.97 chs.; the mean of which is

Set an iron post 3 ft. long, 1 in. diam., 26 ins. in
the ground for t sec. cor., marked on brass cap tS13 in
W. and S18 in E. half; and raise a mound of stone 2 ft.
base 1 ft. high, W. of cor. Pits impracticable.

Cross wash 20 lks. wide course S. W.

Bidge hears N. E. and S. W.
40.00
67.85
73.00
                Ridge bears N. F. and S. W.
                Cross wash 15 lks. wide course S. W.
78.75
                Difference between measurements of 80.00 chs. by two
                sets of chainmen is 8 lks. position of middle point
                          By 1st. set 80.04 chs.
                By 2nd. set 79.96 chs.; the mean of which is Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 7, 12, 13 and 18, marked
80.00
                on brass cap
                Tl4N in N. half;
                R13WS12 in N. W.
                Rlaws7 in N. E.
                S18 in S. E. and
S13 in S. W. quadrant; and raise a mound of stone 2 ft.
base 12 ft. high, W. of cor. Pits impracticable.
                Land, level and rolling.
                Soil, Sandy and rocky; 4th. rate.
                No timber.
               Undergrowth, greasewood, raloverde, mesquite and cactus. April 26: At this cor. I set off13° 21' N. on the decl. arc; and observe the sun on the meridian at noon; the
                resulting lat. is 34° .. 34'N.
                North bet. secs. 7 and 12 Ascending through dense brush.
                Cross drain 5 lks. wide course S. W. Ridge bears N. E. and S. W. descend.
  5.75
 17.20
                Cross wash 30 lks. wide course S. W. ascend steeply.
 19.15
                Cross drain 5 lks. wide course S. W.
 39.00
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North bet. secs. 7 and 12
Ascending through dense brush.

Cross drain 5 lks. wide course S. W.
Ridge bears N. E. and S. W. descend.

Cross wash 30 lks. wide course S. W. ascend steeply.

Cross drain 5 lks. wide course S. W. ascend steeply.

Cross drain 5 lks. wide course S. W.
Difference between measurements of 40.00 chs. by two sets of chainmen is 6 lks. position of middle point.

By lst. set 40.03 chs.

By 2nd. set 39.97 chs.; the mean of which is

40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for t sec. cor., marked on brass cap tS12 in W. and S7 in E. half; and raise a mound of stone 2 ft. base 1/2 ft. high, W. of cor. Pits.impracticable.

Ridge bears N. E. and S. W. Descend steeply.

Cross wash 30 lks. wide course N. W.

63.50 Cross drain 5 lks. wide course N. W.

67.75 Ridge bears N. W. and S. E.

Dross drain 5 lks. wide course S. W.
Difference between measurements of 80.00 chs. by two sets of chainmen is 14 lks. position of middle point

By 1st. set 80.07 chs.

By 2nd. set 79.93 chs.; the mean of which is

80.00 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 1, 6, 7 and 12, marked on brass cap

T14N in N. half;
R13WS1 in N. W.
R12WS6 in N. E.

S12 In S. W. quadrant; and raise a mound of stone 2 ft.

base 12 ft. high, W. of cor. Pits impracticable.

Soil, decomposed granite and rocks; 4th. rate.

Undergrowth, greasewood, paloverde and cactus.

S7 in S. E. and

Land, mountainous.

-	Third Guide Meridian West, through Tp. 14 N.
Chains.	
	North bet. secs. 1 and 6
	Descending through dense brush.
1.25	Cross wash 30 lks. wide course W. ascend.
17.30	Ridge bears E. and W. descend.
35.00	Cross wash 20 lks. wide course S. W. ascend.
1	Difference between measurements of 40.00 chs. by two
•	sets of chainmen is 4 lks. position of middle point
	By 1st. set 40.02 chs.
	By 2nd. set 39.98 chs.; the mean of which is
40.00	Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for t sec. cor., marked on brass cap tS1 in
1	the ground for t sec. cor., marked on brass cap tSl in
1	W. and S6 in E. half; and raise a mound of stone 2 ft.
10.50	base la ft. high, W. of cor. Pits impracticable.
48.30	Ridge bears N. E. and S. W.
51.00	Cross wash 25 lks. wide course S. W.
67.00	Ridge bears N. E. and S. W.
72.00	Cross wash 15 lks. wide course S. W.
•	Difference between measurements of 80.00 chs. by two
	sets of chainmen is 8 lks., position of middle point
	By 1st. set 80.04 chs.
00.00	By 2nd. set 79.96 chs.; the mean of which is
80.00	Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in
	the ground for cor. of Tps. 14 and 15 N. Rgs. 12 and 13
	W. marked on brass cap
i .	TI5N in N.
•	R12W in E.
	T14N in S. and
94	R13W in W. half;
	\$36 in N. W.
	831 in N. E.
1	S6 in S. E. and
	Sl in S. W. quadrant; and raise a mound of stone 2 ft.
	base la ft. high, S. of cor. Pits impracticable.
	Land, mountainous.
	Soil, decomposed granite and rocks; 4th. rate.
f	No timber.
	Undergrowth, greasewood, paloverde, mesquite and cactus.

April 26, 1911.

R12WS19 in N. E. S30 in S. E. and

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Third Guide Meridian West, through Tp. 15 N.
Chaine .
             April 27: At 7h. 00m., a.m., l.m.t., I set off34° 35½' N. on the lat. arc; 13° 37½' N. on the decl. arc; and determine a meridian with the solar at the cor. of Tps.
             14 and 15 N. Rgs. 12 and 13 W.
                       Thence I run
            North bet. secs. 31 and 36
Descending through dense brush.
              Cross drain 5 lks. wide course S. W.
 2.20
             Ridge bears E. and W.
18.00
             Cross wash 15 lks. wide course S. E.
31.00
             Difference between measurements of 40.00 chs. by two
              sets of chainmen is 2 lks. position of middle point
                       By 1st. set 39.99 chs.
             By 2nd. set 40.01 chs.; the mean of which is Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for t sec. cor., marked on brass cap t$36 in W. and $31 in E. half; and raise a mound of stone 2 ft. base 12 ft. high, W. of cor. Pits impracticable.
40.00
41.00
              Ridge bears E. and W.
              Cross wash 30 lks. wide course E.
53.00
              Ridge bears E. and W.
65.00
              Difference between measurements of 80.00 chs. by two
              sets of chainmen is 6 lks. position of middle point
                       By 1st. set 79.97 chs.
              By 2nd. set 80.03 chs.; the mean of which is Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 25, 30, 31 and 36, marked
80.00
              on brass cap
              TISN in N. half;
S35 in N. W.
S30 in N. E.
S31 in S. E. and
S36 in S. W. quadrant; and raise a mound of stone 2 ft.
base 1½ ft. high, W. of cor. Pits impracticable.
              Land, mountainous.
              Soil, decomposed granite and rocks; 4th. rate.
              No timber.
              Undergrowth, greasewood, paloverde, mesquite and cactus.
              North bet. secs. 25 and 30.
              Descending through dense brush.
              Cross drain 5 lks. wide course N. E.
 1.75
              Cross wash 20 lks. wide course W.
 19.00
              Ridge bears N. E. and S. W.
 35.00
              Difference between measurements of 40.00 chs. by two
              sets of chainmen is 4 lks. position of middle point
                       By 1st. set 39.98 chs.
                       By 2nd. set 40.02 chs.; the mean of which is
              Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for t sec. cor., marked on brass cap tS25 in W. and S30 in E. half; and raise a mound of stone 2 ft. base 12 ft. high, W. of cor. Pits impracticable.
40.00
               Cross drain 5 lks. wide course N. W.
 41.00
              Cross wash 100 lks. wide course W. Cross old road bears E. and W.
 62.00
 67.54
              Ridge bears E. and W. Cross wash 15 lks. wide course S. W.
 71.20
 79.00
              Pifference between measurements of 80.00 chs. by two
               sets of chainmen is 2 lks. position of middle point
              By 1st. set 80.01 chs.

By 2nd. set 79.99 chs.; the mean of which is

Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in
the ground for cor. of secs. 19, 24, 25 and 30, marked
 80.00
               on brass cap
               T15N in N. half;
               R13WS24 in N. W.
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\$25 in S. W. quadrant; and raise a mound of stone 2 ft.

11.

Third Guide Meridian West, through Tp. 15 N.

Chains.

base 1 ft. high, W. of cor. Pits impracticable. Land, mountainous. Soil, decomposed granite and rocks; 4th. rate.

No timber.

Undergrowth, greasewood, paloverde mesquite and cactus. April 27: At this cor. I set off 13° 40' N. on the declarc; and observe the sun on the meridian at noon; the resulting lat. is 34° 37½' N.

North bet. secs. 19 and 24

Over rolling land through dense brush. Ridge bears N. E. and S. W.

6.00

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

18.15

29.70

31.25

Cross wash 20 lks. wide course S. W. House bears N. 33° 30' W. Cross wash 10 lks. wide course S. W. Difference between measurements of 40.00 chs. by two sets of chainmen is 2 lks. position of middle point

By 1st. set 40.01 chs.

By 2nd. set 39.99 chs.; the mean of which is Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for t sec. cor., marked on brass cap t524 in 40.00 W. and S19 in E. half; dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist., and raise a mound of earth 32 ft base 12 ft. high, W. of cor.

Cross wash 15 1ks. wide course S. W.

41.00

58.85 Cross wash 20 lks. wide course S. W. 62.50 Cross wash 10 lks. wide course S. W.

Left bank of Big Sandy Riverand over dry bed of river. 76.82 Difference between measurements of 80.00 chs. by two sets of chainmen is 6 lks. position of middle point

By 1st. set 80.03 chs.

By 2nd. set 79.97 chs.; the mean of which is Point for cor. of secs. 13, 18, 19 and 34 falls in bed 80.00

of river. Irun S. 4.00 chs. and at
Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in
the ground for witness cor. to cor of secs. 13, 18, 19 76.00 and 24, marked on brass cap

WC S. of center; T15N in N. half; R13WS13 in N. W.

R12WS18 in N. E.

S19 in S. E. and

\$24 in S. W. quadrant; from which

A mescuite 6 ins. diam., bears S. $71\frac{3}{4}$ W. 124 lks. dist., marked WCT15NR13WS24BT.

No other trees available. Dig pits 18 x 18 x 12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base 2 ft high W of cor base 2 ft. high, W. of cor. From this cor., house noted above bears N. 77° 15' W.

Land, rolling.

Soil, sandy and gravelly; 3rd. rate.

No timber.

Undergrowth, greasewood, paloverde and cactus.

North bet. secs. 13 and 18
From true point for cor.
Over dry bed of river.
Left bank of Big Sandy River course S. E. and over 39.33 cultivated land. Difference between measurements of 40.00 chs. by two sets of chainmen is 2 lks. position of middle point

By 1st. set 39.99 chs.

By 2nd. set 40.01 chs.; the mean of which is

Set and iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for \(\frac{1}{4}\) sec. cor., marked on brass cap \(\frac{1}{4}\)S13 in

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BOOK 2269
                 Third Guide Meridian West, through Tp. 15 N.
             W. and S18 in E. half; from which
                     A cottonwood 24 ins. diam., bears N 16% W. 553
                             lks. dist., marked #$13BT.
             No other trees available. Dig pits 18 x 18 x 13 ins.
            N. and S. of post 3 ft. dist., and raise a mound of earth 3\frac{1}{2} ft. base 1\frac{1}{2} ft. high, W. of cor. From this cor. Telly Bland house bears N. 11° W. Cross fence bears N. W. and S. E. and ascend.
47.19
             Ridge bears E. and W.
54.85
             Cross wash 10 lks. wide course W.
57.25
            Ridge bears E. and W. Cross wash 25 lks. wide course S. W. Difference betweeh measurements of 80.00 chs. by two
59.00
68.50
             sets of chainmen is 6 lks. Position of middle point
                     By 1st. set 80.03 chs.
             By 2nd. set 79.97 chs.; the mean of which is
Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in
the ground for cor. of secs. 7, 12, 13 and 18, marked
00.08
             on brass cap
             Tl5N in N.half;
             R13WS12 in N. W.
             Rl2WS7 in N. E.
             S18 in S. E. and
             S13 in S. W. quadrant; from which
                      A paloverde 4 ins. diam., bears S. 49° E. 65
                     lks. dist., marked T15NR12WS18BT.

A paloverde 4 ins. diam., bears S. 242 W. 134
lks. dist., marked T15NR13WS13BT.
             No other trees available. Raise a mound of stone 2 ft.
             base 1\frac{1}{2} ft. high, W. of cor. Pits impracticable.
             Land, level and rolling.
             Soil, S. 39.33 chs. loose sand, worthless; middle 7.86 chs. rich sandy loam, dry, fine texture, 1st. rate;
             N. 32.81 chs. rocks and gravel; 4th. rate.
             No timber.
             Undergrowth, greasewood, paloverde and mesquite.
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April 27, 1911.

April 28: At 7h. 00m. a.m., l.m.t., I set off 34° 39' N. on the lat. arc; 13° 56g' N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 7, 12, 13 and 18, Thence I run

North bet. secs. 7 and 12

Over rolling land through dense brush.

Cross wash 125 lks. wide course W. 11.00 35.00 Cross wash 35 lks. wide course W.

Difference between measurements of 40.00 chs. by two

sets of chainmen is 4 lks. position of middle point

By 1st. set 40.03 chs.

By 2nd. set 39.98 chs.; the mean of which is

Set an iron post 3 ft. long, 1 in. diam., 36 ins. in
the ground for \$\frac{1}{4}\$ sec. cor., marked on brass cap \$\frac{1}{4}\$S12 in

W. and \$7\$ in E. half; and raise a mound of stone 3 ft.
base \$1\frac{1}{2}\$ ft. high, W. of cor. Pits impracticable.

Cross wash 40 lks. wide course \$5. W. 40.00

56.00 Cross wash 40 lks. wide course S. W. Cross wash 12 1ks. wide course S. W. 68.50

Difference between measurements of 80.00 chs. by two sets of chainmen is 8 lks. position of middle point

By 1st. set 80.04 chs.

By 2nd. set 79.96 chs.; the mean of which is Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 1, 6, 7 and 12, marked 80.00 on brass cap Tl5N in N. half; R13WSl in N. W. R12WS6 in N. E. 87 in S. E. and

Third Guide Meridian West, through Tp. 15 N

Chains.

28.60

S12 in S. W. quadrant; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, rolling. Soil, decomposed granite and loose rock; 4th. rate. No timber. Undergrowth, greasewood, paloverde and cactus.

North bet. secs. 1 and 6 Over rolling land through dense brush. Cross wash 70 lks. wide course S. W. Difference between measurements of 40.00 chs. by two sets of chainmen is 6 lks. position of middle point

By 1st. set 39.97 chs.

By 2nd. set 40.03 chs.; the mean of which is

Set an iron post 3 ft. long, 1 in. diam., 26 ins. in
the ground for t sec. cor., marked on brass cap tS1 in
W. and S6 in E. half; and raise a mound of stone 2 ft.
base 12 ft. high, W. of cor. Pits impracticable.

Cross wash 15 lks. wide course S. W. 40.00

Cross wash 15 lks. wide course S. W. 56.45 Cross wash 30 lks. wide course S. W. Cross wash 30 lks. wide course S. W. 67.00 77.00

Difference between measurements of 80.00 chs. by two sets of chainmen is 8 lks, position of middle point b
By 1st. set 79.96 chs.

By 2nd. set 80.04 chs.; the mean of which is Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of Tps. 15 and 16 N. Rgs. 13 and 80.00 13 W. marked on brass cap

Tl6N in N.

RISW in E.
TISN in S. and
RISW in W. half;
S36 in N. W.

S31 in N. E.

S6 in S. E. and S1 in S. W. quadrant; and raise a mound of stone 2 ft. base 12 ft. high, S. of cor. Pits impracticable.

Land, rolling Soil, gravel and loose rock; 4th. rate.

No timber.

Undergrowth, greasewood, paloverde and cactus.
April 38: At this cor. I set off 15° 59½' N. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is 34° 41' N.

vin. 5.0. T. a. i, 2 . a test Sar alt to 241 last a. to be to 1. co; emd Tay will be to the to be sor. of

S30 in S. E. and

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Third Guide Meridian West, through Tp. 16 N.
Chains.
             April 39: At 7h. oom. a.m., l.m.t., I so t off 34° 41' N. on the lat. arc; 14° 15z' N. on the decl. arc; and
             determine a meridian with the solar at the cor. of
             Tps. 15 and 16 N. Rgs. 13 and 13 W. Thence I run
             North bet. secs. 31 and 36.
             Over rough broken land through dense brush.
             Cross wash 30 lks. wide course S. W.
  9.50
             Ridge bears N. E. and S. W. Cross wash 25 lks. wide course S. W.
 19.00
 25.00
             Ridge bears N. E. and S. W.
 37.00
             Difference between measurements of 40.00 chs. by two
              sets of chainmen is 6 lks. position of middle point
             By 1st. set 40.03 chs.

By 2nd. set 39.97 chs.; the mean of which is

Set an iron post 3 ft. long, 1 in. diam., 36 ins. in
the ground for t sec. cor., marked on brass cap 1836 in
W. and 831 in E. half; and raise a mound of stone 2 ft.
 40.00
             base 12 ft. high, W. of cor. Pits impracticable. Cross wash 250 lks. wide course W. Ridhe bears N. E. and S. W.
 56.60
 61.00
             Cross wash 40 lks. wide course S. W.
 65.00
              Difference between measurements of 80.00 chs. by two
              sets of chainmen is 12 lks. position of middle point
             By 1st. set 80.06 chs.

By 2nd. set 39.94 chs.; the mean of which is
Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in
the ground for cor. of secs. 25, 30, 31 and 36, marked
 80.00
              on brass cap
             Tl6N in N. half; Rl3WS25 in N. W.
              R12WS30 in N. E.
             S31 in S. E. and S36 in S. W. quadrant; and raise a mound of stone 2 ft base 1\frac{1}{2} ft. high W. of cor. Pits impracticable.
              Land, rough and broken.
              Soil, gravel and loose rock; 4th. rate.
              No timber.
              Undergrowth, greasewood, paloverde, mesquite and cactus.
              North bet. secs. 35. and 30
             Over rolling land through dense brush Ridge bears N. E. and S. W. Cross road bears N. E. and S. W.
  10.00
  26.85
              Difference between measurements of 40.00 chs. by two
              sets of chainmen is 4 lks. position of middle point
                       By 1st. set 39.98 chs.
              By 3nd. set 40.02 chs.; the mean of which is Set an iron post 3 ft. long, 1 in. diam., 36 ins. in the ground for 4 sec. cor., marked on brass cap 4825 in W. and 830 in E. half; from which
  40.00
                       A mesquite 6 ins. diam., bears N. 672 W. 137 lks. dist., marked #S25BT
                       A mesquite 5 ins. diam., bears lks. dist., marked $\frac{1}{4}$S3OBT.
                                                             bears N. 801 F. 134
              Cross wash 700 lks. wide course S. W.
  44.80
  60.00
              Ridge bears E. and W.
              Difference between measurements of of 80.00 chs. by two
              sets of chainmen is 10 lks. position of middle point
                       By 1st. set 79.95 chs.
              By 2nd. set 80.05 chs.; the mean of which is
Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in
the ground for cor. of secs. 19, 24, 25 and 30, marked
 80.00
              on brass cap
              Tl6N in N. half;
              R13WS24Tin N. W.
              RISWS19 in N. E.
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Third Guide Meridian West, through Tp. 16 N.

Chains.

\$35 in S. W. quadrant; and raise a mound of stone 2 ft. base 12 ft. high, W. of cor. Pits impracticable. Land, rolling. Soil, gravel and rocks; 4th. rate. No timber. Undergrowth, greasewood, paloverde and mesquite.
April, 29: At this cor. I set off 14: 18! N. on the decl arc; and observe the sun on the meridian at noon; the resulting lat. is 34° 422' N.

North bet. secs. 19 and 24. Over rolling hilly land through dense brush Difference between measurements of 40.00 chs. by two sets of chainmen is 2 lks. position of middle point By 1st. set 40.01 chs.

By Snd. set 39199 chs.; the mean of which is Set an iron post 3 ft. long, 1 in. diam., 36 ins. in the ground for t sec. cor., marked on brass cap \$534 in W. and S19 in E. half; and raise a mound of stone 3 ft. 40.00

60.00

62.00

base 12 ft. high, W. of cor. Pits impracticable. Cross wash 12 lks. wide course N. W. Ridge bears N. E. and S. W. Cross wash 65 lks. wide course S. W. 68.75 Difference between measurements of 80.00 chs. by two sets of chainmen is 6 lks. position of middle point

By 1st. set 80.03 chs.

By 2nd. set 79.97 chs.; the mean of which is
Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in
the ground for cor. of secs. 13, 18, 19 and 24, marked 80.00 on brass cap Tl6N in N. half; RIZWS13 in N. W. RIZWS18 in N. E. S19 in S. E. and \$24 in S. W. quadrant; and raise a mound of stone 2 ft base la ft. high, W. of cor. Pits impracticable. Land, hilly; Soil, rocks and gravel; 4th. rate.

No timber.

Undergrowth, mescuite, paloverde, greasewood and cactus.

North bet. secs. 13 and 18 Ascending S. E. slope of ridge. Difference between measurements of 40.00 chs. by two sets of chainmen 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 an iron post 3 ft. long, 1 in. diam., 26 ins. in
the ground for t sec. cor., marked on brass cap t513 in
W. and S18 in E. half; and raise a mound of stone 2 ft.
base 12 ft. high, W. of cor. Pits impracticable.
Ridge bears N. E. and S. W. descend.

Cross wash 15 lks. wide course S. W. 40.00

52.00 Cross wash 15 lks. wide course S. W. 76.20 Difference between measurements of 80.00 chs. by two

sets of chainmen is 10 lks. position of middle point By lst. set 80.05 chs.

By 2nd. set 79.95 chs.; the mean of which is 80.00 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 7, 12, 13 and 18, marked on brass cap Tl6N in N. half; R13WS12 in N. W.

R12WS7 in N. E.

S18 in S. E. and S13 in S. W. quadrant; and raise a mound of stone 2 ft. base ly ft. high, W. of cor. Pits impracticable.

Third Guide Meridian West, through Tp. 16 N

Chains.

Land, mountainous.

Soil, gravel and loose rocks; 4th. rate.

No timber.

Undergrowth, greasewood, paloverde, mesquite and cactus.

April 29, 1911.

May 1: At 7h. 00m. a.m., l.m.t., I set off 34° 44' N. on the lat. arc; 14° 532' N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 7, 12, 13 and 18

Thence I run

North bet. secs. 7 and 12. Over high nearly level land sloping S. W. through dense

Cross wash 10 lks. wide course S. W. Cross wash 10 lks. wide course S. W. 13.00

35.25

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

By 1st. set 40.01 chs.

By 2nd. set 39.99 chs.; the mean of which is Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for 4 sec. cor., marked on brass cap 4812 in 40.00 W. and S7 in F. half; and raise a mound of stone 2 ft. base 12 ft. high, W. of cor. Pits impracticable.

52.00

Over rolling land. Cross wash 175 lks. wide course W. Ridge bears N. E. and S. W. 56.20

62.00

Cross wash 50 lks. wide course S. W. 72.00 Difference between measurements of 80.00 chs. by two sets of chainmen is 8 lks. position of middle point

By 1st. set 79.96 chs.

By 2nd. set 80.04 chs.; the mean of which is
Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in
the ground for cor. of secs. 1, 6, 7 and 12, marked 80.00 on brass cap

Tl6N in N. half; R13WS1 in N. W. R12WS6 in N. E.

S7 in S. E. and

S13 in S. W. quadrant; and raise a mound of stone 3 ft. base la ft. high, W. of cor. Pits impracticable. Land, level and rolling. Soil, loose rock and gravel; 4th. rate.

No timber.

Undergrowth, greasewood, paloverde, mesquite and cactus. May 1: At this cor. I set off 14° $55\frac{1}{2}$! N. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is 34° 45' N./

North bet. secs. 1 and 6 Over rolling land through dense brush.

Ridge bears N. E. and S. W. 2.00

5.45

9.00

Cross wash 8 lks. wide course W. Ridge bears N. E. and S. W. Cross wash 400 lks. wide course S. W. 20.00

Ridge bears N. E. and S. W. 30.00

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

By 1st. set 40.03 chs.
By 2nd. set 39.97 chs.; the mean of which is Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for t sec. cor., marked on brass cap tS1 in W. and S6 in E. half; and raise a mound of stone 2 ft. base 1½ ft. high, W. of cor. Pits impracticable. Cross wash 15 lks. wide course S. W. 40.00

43.00

	Third Guide Meridian West, through Tp. 16 N.
Chains.	
52.00	Ridge bears N. E. and S. W.
57.15	CIOSS WASh 10 lks. wide course S W
68.00	-Ridge bears N. E. and S. W
୍ 7ଥ.୪୦ 🍦	Cross wash 25 lks. wide course S. W.
	Difference between measurements of 80.00 chs. by two
	sets of chainmen is 10 lks. position of middle point
	By 1st. set 80.05 chs.
	By 2nd, set 79 95 ohs the man of its
80.00	By 2nd. set 79.95 chs.; the mean of which is
	Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of Tps. 16 and 162 N. Rgs. 12 and
:	13 W.marked on brass cap
	T162N in N.
	Rlaw in E.
1	T16N in S.
	R13W in W. half;
1	\$36 in N. W.
	S31 in N. E.
	S6 in S. E. and
	Sling W madrant, and
	Sl in S. W. quadrant; and raise a mound of stone 2 ft.
	- Value - 12 - 10 · Alexa o OF Cor. Hits imprectionals
	name torring.
	Soil, loose rocks and gravel; 4th. rate.
	No timber.
1	Undergrowth, greasewood, paloverde, mesquite, and cactus.

May 1, 1911

80.00

18

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Third Guide Meridian West, through Tp. 16 N.
Chains
               May 3: At 7h. 00m., a.m., l.m.t., I set off 34° 46' N. on the lat. arc; 15° 28½' N. on the decl. arc; and determine a meridian with the solar at the cor. of Tps. 16 and 16 N. Pres. 12 and 12 W.
               16 and 16 N. Rgs. 13 and 13 W.
Thence I run
               North bet. secs. 31 and 36
               Over rolling land, through dense brush. Ridge bears N. E. and S. W. Cross wash 40 lks. wide course S. W.
  5.00
25.70
                Difference between measurements of 40.00 chs. by two
                sets of chainmen 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 an iron post 3 ft. long, 1 in. diam., 26 ins. in
the ground for t sec. cor., marked on brass cap $36
in W. and $31 in F. half; and raise a mound of stone 3
40.00
                ft. base 12 ft. high W. of cor. Pits impracticable.
Ridge bears N. E. and S. W.
Cross wash 25 lks. wide course S. W.
Ridge bears N. E. and S. W.
41.50
52.50
69.80
                Cross wash 18 lks. wide course S. W.
 75.50
                Ridge bears N. E. and S. W.
 79.85
                Difference between measurements of 80.00 chs. by two
                sets of chainmen 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 an iron post 3 ft. long, 3 ins. diam., 24 ins. in
the ground for cor. of secs. 25, 30, 31 and 36, marked
 80.00
                 on brass cap
                 T16th in N. half;
                 $30 in N. E.
                 S31 in S. E. and
                 S36 in S. W. quadrant; and raise a mound of stone 2 ft.
                 base 1\frac{1}{2} ft. high, W. of cor. Pits impracticable.
                 Land, hilly.
                 Soil, gravel and loose rock; 4th. rate.
                 No timber.
                 Undergrowth, greasewood, raloverde and cactus.
                 North bet. secs. 25 and 30
Over rough hilly land through dense brush.
Cross wash 200 lks. wide course S. W.
Ridge bears N. E. and S. W.
  11.00
  19.00
                  Cross wash 35 lks. wide course S. W.
  23.00
                  Ridge bears N. E. and S. W.
  28.00
                 Cross wash 15 l/s. wide course S. W. Ridge bears N. E. and S. W. Difference between measurements of 40.00 chs. by two
  33.00
  36.00
                  sets of chainmen is 4 lks. position of middle point
                  By 1st. set 39.98 lks.

By 2nd. set 40.02 chs.; the mean of which is

Set an iron post 3 ft. long, 1 in. diam., 26 ins. in
the ground for 4 sec. cor., marked on brass cap 4835 in
W. and $30 in F. half; and raise a mound of stone 2 ft.
  40.00
                  base 12 ft. high, W. of cor. Pits impracticable.
                  Cross wash 70 lks. wide course S. W. Ridge bears N. E. and S. W. Cross wash 10 lks. wide course S. W.
   41.00
   50.90
   55.25
                  Ridge bears N. E. and S. W. Cross wash 12 lks. wide course S. W.
   58.00
   59.80
                   Ridge bears N. E. and S. W. Cross wash 15 lks. wide course S. W.
   64.30
   66.15
                   Ridge bears N. E. and S. W.
   69.75
                   Difference between measurements of 80.00 chs. by two
                   sets of chainmen is 14 lks. position of middle point

By lst. set 80.07 chs.

By 2nd. set 79.93 chs.; the mean of which is

Setan iron post 3 ft. long, 3 ins. diam., 24 ins. in
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Third Guide Meridian West, through Tp. 16 N.
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Chains.

6.50

40.00

the ground for cor. of secs. 19, 24, 25 and 30, marked on brass cap Tl62N in N. half; R13WS24 in N. W. R12WS19 in N. E.

S30 in S. E. and \$25 in S. W. quadrant; from which

A cedar 6 ins. diam., bears S. 15° F. 76 lks. dist., marked T162NR12WS3OBT.

A cedar 4 ins. diam., bears S. 94° W. 80 lks. dist., marked T162NR13WS25BT.

No other trees available. Raise a mound of stone 2 ft. base 12 ft. high, W. of cor. Pits impracticable. Land, hilly.

Soil, rocks and gravel; 4th. rate. Timber, a few scattering cedars.

Undergrowth, paloverde, mesquite and greasewood. May3; At this cor. I set off 15° 31½' N. on the decl. a arc; and observe the sun on the meridian at noon; the resulting lat. is 34° 48' N.

North bet. secs. 19 and 24 Over rough broken land through dense brush Cross wash 100 lks. wide course N. W.

13.63 Ridge bears N. E. and S. W.

Cross wash 35 lks. wide course S. W. Ridge bears N. E. and S. W. 22.00

28.50

Difference between measurements of 40.00 chs. by two sets of chainmen 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 an iron post 3 ft. long, 1 in. diam., 26 ins. in
the ground for t sec. cor., marked on brass cap t \$24 in
W. and \$19 in E. half; from which

A cedar 4 ins. diam., bears S. 34° W. 74 lks. dist., marked \$34BT

A cedar 4 ins. diam., bears S. 61° E. 75 lks. dist., marked \$\$19BT.

Cross wash 12 lks. wide course S. W. 40.65

50.00 Ridge bears N. E. and S. W.

56.40 Cross wash 10 lks. wide course W.

59.25

Ridge bears N. E. and S. W. Cross wash 15 lks. wide course S. W. 68.40

Difference between measurements of 69.40 chs. by two sets of chainmen is 10 lks. position of middle point

By 1st. set 69.45 chs.

By 2nd. set 69.35 chs.; the mean of which is Intersect 4th. Standard Parallel North 2 miles Oochs. 69.40 21 lkg; E_B of_R the cor. of Tps. 17 N. Rgs. 12 and 13 W. and set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for closing cor. of Tps. 162 N. Rgs. 12 and 13 W. marked on brass cap

CC S. of center;

T.17 N. R.12 W S 32 S 33 in N.half;

T164N in S. half:

Tl6 in S. half;

S19R12W in S. E. and S24R13W in S. W. quadrant; and raise a mound of stone 2 ft. base 12 ft. high, S. of cor. Pits impracticable. Land, mountainous.

Soil, loose rocks and gravel; 4th. rate.

No timber.

Undegrowth, greasewood, paloverde, mesquite and cactus.

May 3, 1911.

GENERAL DESCRIPTION.

2269 BOOK

Third Guide Meridian West, through Tp. 16 N.

Chains.

Through Tps. 13 to $16\frac{1}{2}$ N. this line runs along the west slope of rough mountains. The land east of the line is rough and mountainous, while to the west is the valley of the Big Sandy River. There is no timber.

Uffird M. Oliver U.S. Transitman.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

BOOK 2269

LIST OF NAMES.

A list of the names of the individuals employed by Affeld M. C	lwer
United States Deputy Surveyor, to assist in running,	measuring, and
marking the lines and corners described in the foregoing field notes of the survey of the	Phird
Guide Mendian West through Pls 13, 14, 15, 16 and 161/2	
showing the respective capacities in which they acted:	
. R. a. Cooules Clay Dodson	, Chainman.
W. O. Panner, C. S. Crowen	, Chainman.
Q. L. Bates	
•	
Ed Brockway	1 mm am
9. C. Ellis D. Shinfersel	, Axman.
ν	, Flagman.
FINAL OATH OF ASSISTANTS.	<i>a</i>
We hereby certify that we assisted Afred M. Olive Mansitman	~
, United States Deputy Surveyor,	
those parts or portions of the Mind Guide Mendian West through	h Tgo.
12 14 15 11 and 16/2 Mi	
13, 14, 15, 16 and 1612 W.	
of the	Gila and
of the Oall River meridian, Persetory of Cryona, which in the foregoing field notes as having been surveyed by him and under his direction; and	are represented
of the Oll River meridian, Perutory of Cryona, which in the foregoing field notes as having been surveyed by him and under his direction; and has been in all respects, to the best of our knowledge and belief, well and faithfully sur	are represented that said survey rveyed, and the
of the Oll River meridian, Personal of Congruence, which in the foregoing field notes as having been surveyed by him and under his direction; and has been in all respects, to the best of our knowledge and belief, well and faithfully surcorner monuments established, according to the instructions furnished by the United	are represented that said survey rveyed, and the
of the Oll River meridian, Perutory of Cryona, which in the foregoing field notes as having been surveyed by him and under his direction; and has been in all respects, to the best of our knowledge and belief, well and faithfully surcorner monuments established, according to the instructions furnished by the United General for Cayona	are represented that said survey rveyed, and the States Surveyor
Orld River meridian, Penetory of Cryona, which in the foregoing field notes as having been surveyed by him and under his direction; and has been in all respects, to the best of our knowledge and belief, well and faithfully surcorner monuments established, according to the instructions furnished by the United General for Chryona.	are represented that said survey rveyed, and the States Surveyor, Chainman.
of the Call River meridian, Penilony of Cayona, which in the foregoing field notes as having been surveyed by him and under his direction; and has been in all respects, to the best of our knowledge and belief, well and faithfully su corner monuments established, according to the instructions furnished by the United General for Cayona. Constant R. A. Ceonafo. Long Dayona Long D	are represented that said survey rveyed, and the States Surveyor, Chainman.
of the Oll River meridian, Puntage of Cayona, which in the foregoing field notes as having been surveyed by him and under his direction; and has been in all respects, to the best of our knowledge and belief, well and faithfully su corner monuments established, according to the instructions furnished by the United Seneral for Cayona Comments of the Olympian and Under his direction; and has been in all respects, to the best of our knowledge and belief, well and faithfully su corner monuments established, according to the instructions furnished by the United Seneral for Cayona Comments of the Olympian and Under his direction; and has been in all respects, to the best of our knowledge and belief, well and faithfully su corner monuments established, according to the instructions furnished by the United Seneral for Cayona Comments of the Olympian and Under his direction; and has been in all respects, to the best of our knowledge and belief, well and faithfully su corner monuments established, according to the instructions furnished by the United Seneral for Cayona Comments of the Olympian and Under his direction; and has been in all respects, to the best of our knowledge and belief, well and faithfully su corner monuments established, according to the instructions furnished by the United Seneral for Cayona Comments of the Olympian and Under his direction; and the Olympian and Under his directio	are represented that said survey rveyed, and the States Surveyor, Chainman, Chainman, Moundman.
of the Call River meridian, Punctory of Cayona, which in the foregoing field notes as having been surveyed by him and under his direction; and has been in all respects, to the best of our knowledge and belief, well and faithfully su corner monuments established, according to the instructions furnished by the United General for Cayona Control	are represented that said survey rveyed, and the States Surveyor, Chainman, Chainman, Moundman, Moundman.
of the Old River meridian, Puntary of Riyona, which in the foregoing field notes as having been surveyed by him and under his direction; and has been in all respects, to the best of our knowledge and belief, well and faithfully su corner monuments established, according to the instructions furnished by the United General for Riyona R. A. Geornafo. Lelay Brodson A. January D. A. Constants.	are represented that said survey rveyed, and the States Surveyor, Chainman, Chainman, Moundman, Moundman, Axman.
of the Old River meridian, Puntary of Riyona, which in the foregoing field notes as having been surveyed by him and under his direction; and has been in all respects, to the best of our knowledge and belief, well and faithfully su corner monuments established, according to the instructions furnished by the United General for Riyona R. A. Geornafo. Lelay Brodson A. January D. A. Constants.	are represented that said survey rveyed, and the States Surveyor, Chainman, Chainman, Moundman, Moundman, Axman.
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of the Call River meridian, Rentory of Cryona, which in the foregoing field notes as having been surveyed by him and under his direction; and has been in all respects, to the best of our knowledge and belief, well and faithfully su corner monuments established, according to the instructions furnished by the United Science of Control of Con	are represented that said survey rveyed, and the States Surveyor, Chainman, Chainman, Moundman, Moundman, Axman.
of the Call River meridian, Rentory of Cryona, which in the foregoing field notes as having been surveyed by him and under his direction; and has been in all respects, to the best of our knowledge and belief, well and faithfully su corner monuments established, according to the instructions furnished by the United Science of Control of Con	are represented that said survey rveyed, and the States Surveyor, Chainman, Chainman, Moundman, Moundman, Axman.

BOOK 2	269				\mathcal{A}
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solemnly sw	ear that, in pursuance	of a contract receiv	ed from		mall
	es Surveyor General for			-	bearing date of
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United State	es, surveyed all those p	parts or portions of .	the thi	ed Guide	Meridian
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\sim	amined, and the necess		explanations	made, the said	field notes, and
surveys they	describe, are hereby a	pproved.	_		
i.			•	TImilai Cu I	
			•	Onitea State	s Surveyor Gene
\ I certi	fy that the foregoing to	ranscript of the field	l notes of the a	bove-described s	urveys in
A = 00101.					
	, h	as been correctly co	pied from the	original notes on	file in this office