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JUL 22 1910

Accepted, S.G.O. letter &
July 27, 1912

2243

Book B.

BOOK 2243

FIELD NOTES

OF THE SURVEY OF THE

North and East boundaries of Tp. 6 N. Rg. 2 E. the

North, East and West boundaries of Tp. 7 N. Rg. 2 E. and the

East and West boundaries of Tp. 8 N. Rg. 2 E.

2243

2243

Of the Gila and Salt River Meridian,

Territory of Arizona

AS SURVEYED BY

Alfred N. Oliver, United States Deputy Surveyor,

Under his Contract No. 161, dated January 5, 1910., 189

Survey commenced May 7, 1910., 189

Survey completed May 25, 1910., 189

2243

2243

NAMES AND DUTIES OF ASSISTANTS.

BOOK 2243

Len Hall

Chainman.

A. E. Lyon

Chainman

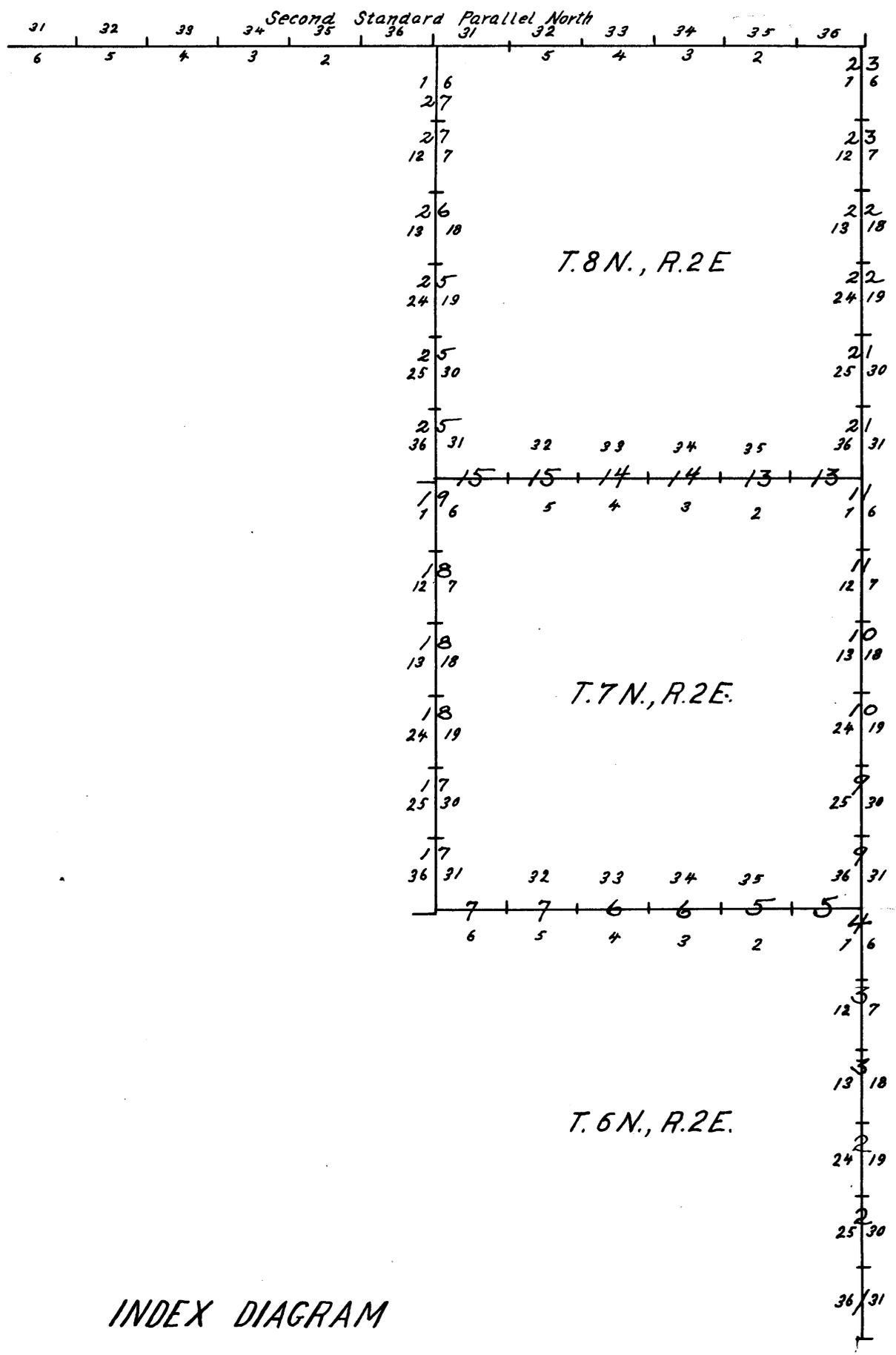
H. T. Hartwell

Axman

R. A. Coombs.

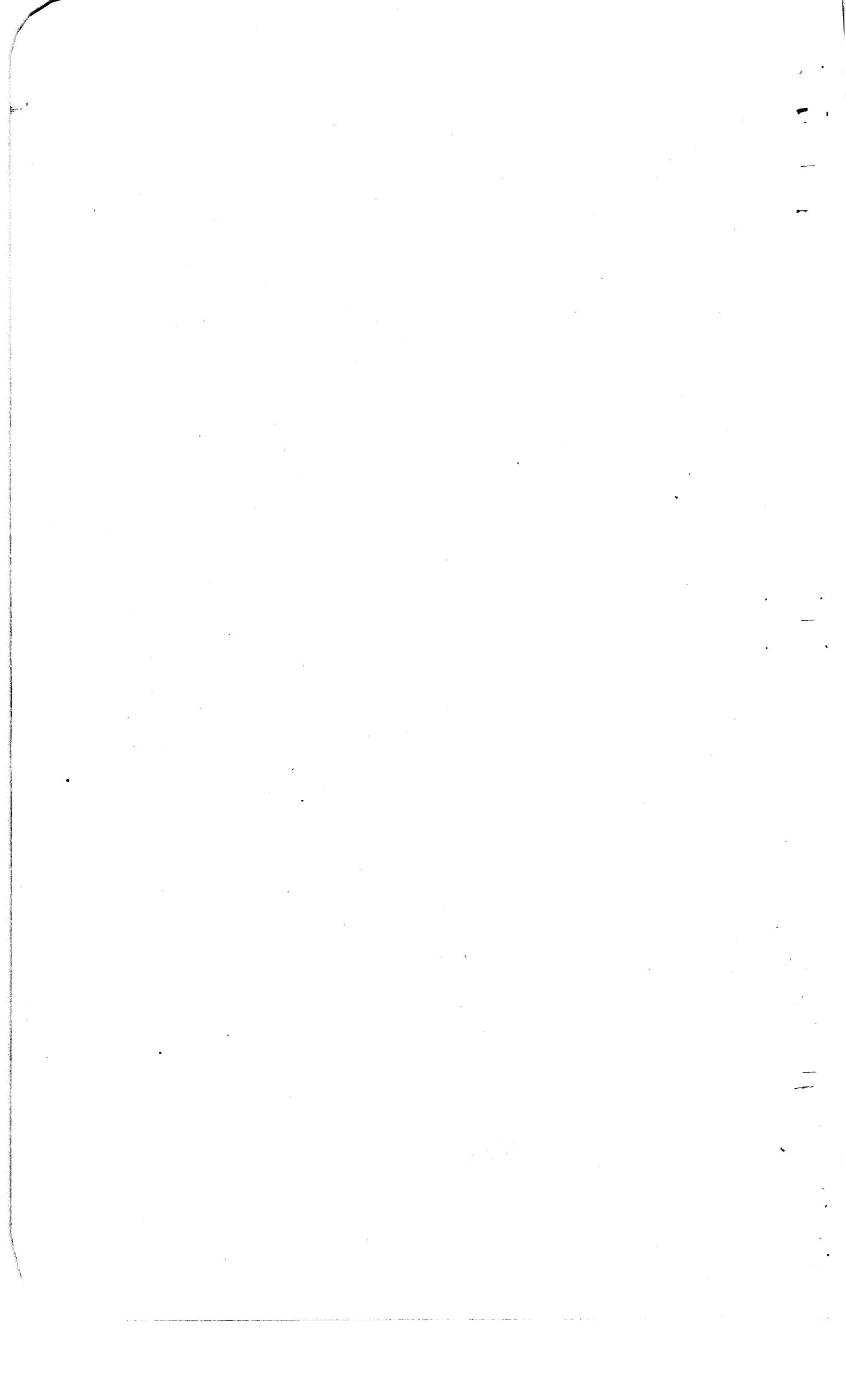
Flagman

BOOK 2243



INDEX DIAGRAM

S. N. 2 E



INDEX DIAGRAM.

Township....., *Range*.....

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Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

1058
BOOK 2243

WE, Len Hall and A. E. Lyon

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of The N. and E. Bdry. of Tp. 6 N. Rg. 2 E. the N., E. and W. bdry. of Tp. 7 N. Rg. 2 E. and the E. and W. bdry. of Tp. 8 N. Rg. 2 E.

Len Hall, Chainman.
A. E. Lyon, Chainman.

Subscribed and sworn to before me this 7th. day of May, 1910, 189



Alfred N. Oliver
U.S. Deputy Surveyor.

WE, _____ and _____

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of _____

_____, Moundman.
_____, Moundman.

Subscribed and sworn to before me this _____ day of _____, 189



WE, I, H. T. Hartwell and _____

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given me, to the best of my skill and ability, in the survey of the N. and E. bdry. of Tp. 6 N. Rg. 2 E. the N., E. and W. bdry. of Tp. 7 N. Rg. 2 E. and the E. and W. bdry. of Tp. 8 N. Rg. 2 E.

H. T. Hartwell, Axman.
_____, Axman.

Subscribed and sworn to before me this 7th. day of May, 1910., 189



Alfred N. Oliver
U.S. Deputy Surveyor.

I, R. A. Coombs, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of the N. and E. bdry. of Tp. 6 N. Rg. 2 E. the N., E. and W. bdry. of Tp. 7 N. Rg. 2 E. and the E. and W. bdry. of Tp. 8 N. Rg. 2 E.

R. A. Coombs, Flagman.

Subscribed and sworn to before me this 7th. day of May, 1910., 189



Alfred N. Oliver
U.S. Deputy Surveyor.

No notary available without loss of time and great expense.

East boundary of Tp. 6 N. Rg. 2 E.

Chains. Survey commenced May 7, 1910, and executed with a Lietz Co. light mountain transit, No. 5631, 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 Tps. 5 and 6 N., Rgs. 2 and 3 E. which is a granite stone 12 x 10 x 6 ins. above ground, firmly set and marked and witnessed as described by the surveyor general; latitude $33^{\circ} 48' 41''$ N., longitude $112^{\circ} 05' 52''$ W.; I set off $33^{\circ} 48\frac{1}{2}'$ N. on the lat. arc; $16^{\circ} 48\frac{1}{2}'$ N. on the decl. arc; and at 5h. 00m. p.m., l.m.t. determine with the solar a meridian and mark a point thereof, on a stone firmly set in the ground, 5 chs. N. of the cor.

May 7. 1910.

May 8: At 4h. 29 $\frac{1}{2}$ a.m. by my watch, which has correct l.m.t., I observe Polaris at eastern elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined, on a peg driven in the ground, 5 chs. N. of my station.

At 6 a.m., l.m.t., I lay off the azimuth of Polaris, $1^{\circ} 25'$ to the west, and mark the meridian thus determined by cutting a small groove in the stone set May 7, on which the meridian coincides with the mark determined by the solar.

At 7h. 00m. a.m., l.m.t., I set off $33^{\circ} 48\frac{1}{2}'$ N. on the lat. arc; $16^{\circ} 58\frac{1}{2}'$ 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 solar apparatus, by p.m., and a.m., observations defines positions for meridians, respectively, 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. $14^{\circ} 30'$ W.; the angle thus determined gives the mag. decl. $14^{\circ} 30'$ E.

The cor. of Tps. 5 and 6 N. Rgs. 2 and 3 E. is marked with 6 notches on each edge, I mark 6N on N. E., 3E on S. E. 5N on S. W. and 2E on N. W. faces; and take a bearing tree as follows;

a paloverde 4 ins. diam., bears S. $36\frac{1}{4}^{\circ}$ E. 49 lks. dist., marked T5NR3ES6BT.

From this cor. I now run North bet. secs. 31 and 36. Descending N. slope of mountain through dense brush over loose rocks.

34. 50 Cross wash 25 lks. wide course W. and over rolling land.
40.00 Set a malpais 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 mesquite 7 ins. diam., bears S. 55° E. 57 lks. dist., marked $\frac{1}{4}$ S31BT.

a paloverde 6 ins. diam., bears S. 88° W. 100 lks. dist., marked $\frac{1}{4}$ S36BT.

East boundary of Tp. 6 N. Rg. 2 E.

Chains. 80.00	<p>Set a malpais stone 24 x 12 x 6 ins. 18 ins. in the ground for cor. of secs. 25, 30, 31 and 36, marked with 1 notch on S. and 5 notches on N. edges; from which</p> <p>A paloverde 8 ins. diam., bears N. 60° E. 188 lks. dist., marked T6NR3ES30BT.</p> <p>A paloverde 8 ins. diam., bears N. 11½° W. 333 lks. dist., marked T6NR2ES25BT</p> <p>No other trees available. Raise a mound of stone 2 ft. base 1½ ft. high, W. of cor. Pits impracticable. Land, rolling and mountainous. Soil, rocky; 4th. rate. No timber. Undergrowth, greasewood, paloverde, and mesquite. Mountainous land, land covered with dense undergrowth and loose rocks, exceptionally difficult to survey, 80.00 chs.</p>
40.00	<p>North bet. secs. 25 and 30 Over level land covered with loose rocks, through dense undergrowth.</p> <p>Set a malpais stone 18 x 8 x 6 ins. 12 ins. in the ground for ¼ sec. cor., marked ¼ on W. face; from which</p> <p>A paloverde 8 ins. diam. bears N. 12½° E. 83 lks. dist., marked ¼S30BT.</p> <p>A paloverde 9 ins. diam., bears N. 64° W. 110 lks. dist., marked ¼S25BT</p>
44.50	Cross wash 90 lks. wide course S. W.
53.00	Cross wash 20 lks. wide course S. W.
60.30	Cross wash 100 lks. wide course S. W.
80.00	<p>Set a malpais stone 20 x 8 x 8 ins. 15 ins. in the ground for cor. of secs. 19, 24, 25 and 30, marked with 2 notches on S. and 4 notches on N. edges; and raise a mound of stone 2 ft. base 1½ ft. high, W. of cor. Pits impracticable.</p> <p>Land, rolling and covered with loose rock. Soil, rocky; 4th. rate. No timber. Undergrowth, greasewood, paloverde and mesquite. Land covered with dense undergrowth and loose rock, exceptionally difficult to survey 80.00 chs. May 8: At this cor. I set off 17° 01' N. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is 33° 50½' N.</p>
40.00	<p>North bet. secs. 19 and 24. Over rolling land covered with loose rock, through dense brush.</p> <p>Set a malpais stone 18 x 8 x 6 ins. 12 ins. in the ground for ¼ sec. cor., marked ¼ on W. face; from which</p> <p>A mesquite 6 ins. diam., bears S. 17¼° W. 185 lks. dist., marked ¼S24BT.</p> <p>A mesquite 4 ins. diam., bears N. 38¾° E. 163 lks. dist., marked ¼S19BT.</p>
80.00	<p>Set a malpais stone 18 x 8 x 5 ins. 12 ins. in the ground for cor. of secs. 13, 18, 19 and 24, marked with 3 notches on N. and S. edges; from which</p> <p>A paloverde 5 ins. diam., bears N. 16¾° E. 97 lks. dist., marked T6NR3ES18BT.</p> <p>An ironwood 10 ins. diam., bears S. 62¼° E. 303 lks. dist., marked T6NR3ES19BT.</p> <p>A ploverde 6 ins. diam., bears S. 33¼° W. 145 lks. dist., marked T6NR2ES24BT.</p> <p>A paloverde 5 ins. diam., bears N. 89¼° W. 117 lks. dist., marked T6NR2ES13BT.</p>

East boundary of Tp. 6 N. Rg. 2 E.

Chains.	Land, rolling and covered with loose rock. Soil, rocky; 4th. rate. No timber. Undergrowth, greasewood, paloverde and mesquite. Land covered with dense undergrowth and loose rock, exceptionally difficult to survey, 80.00 chs.
	May 8, 1910.

	May 9: At 7h. 00m., a.m., l.m.t., I set off $33^{\circ} 51\frac{1}{2}'$ N. on the lat. arc; $17^{\circ} 14\frac{1}{2}'$ 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 covered with loose rocks through dense brush.
10.73	Cross wash 20 lks. wide course S. W.
35.05	Cross wash 50 lks. wide course S. W. and ascend S. W. slope of mountain.
40.00	Set a malpais stone 20 x 6 x 6 ins. 15 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; from which A paloverde 6 ins. diam., bears N. $34\frac{1}{2}^{\circ}$ E. 148 lks. dist., marked $\frac{1}{4}$ S18BT. A paloverde 8 ins. diam., bears S. $30\frac{1}{2}^{\circ}$ W. 108 lks. dist., marked $\frac{1}{4}$ S13BT.
78.00	Ridge bears E. and W. descend.
80.00	Set a granite stone 18 x 10 x 10 ins. 12 ins. in the ground for cor. of secs. 7, 12, 13 and 18, marked with 2 notches on N. and 4 notches on S. edges; from which A paloverde 6 ins. diam., bears N. $28\frac{1}{2}^{\circ}$ E. 58 lks. dist., marked T6NR3ES7BT. A paloverde 5 ins. diam., bears S. 9° E. 87 lks. dist., marked T6NR3ES18BT. An ironwood 4 ins. diam., bears S. $58\frac{1}{2}^{\circ}$ W. 18 lks. dist., marked T6NR2ES13BT. An ironwood 6 ins. diam., bears N. $74\frac{1}{2}^{\circ}$ W. 33 lks. dist., marked T6NR2ES12BT.
	Land, rolling and mountainous, and covered with loose rock. Soil, rocky; 4th. rate. No timber. Undergrowth, paloverde, mesquite and greasewood. Mountainous land and land covered with dense undergrowth and loose rock, exceptionally difficult to survey 80.00 chs.

	North bet. secs. 7 and 12 Descending over loose rocks through dense undergrowth
1.40	Cross wash 20 lks. wide course S. E. and ascend.
17.65	Cross drain 7 lks. wide course S. E.
26.30	Ridge bears E. and W. and ascend along S. W. slope of mountain.
37.00	Cross drain 6 lks. wide course S. W.
40.00	Set a granite stone 24 x 10 x 8 ins. 18 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
49.25	Top of mountain and along E. slope of mountain.
53.50	Cross drain 6 lks. wide course E.
57.60	Cross drain 5 lks. wide course E.
76.20	Cross drain 5 lks. wide course E.
80.00	Marka cross on a granite rock in place 4 x 3 x 3 ft. above ground for exact point for cor. of secs. 1, 6, 7 and 12, marked with 5 grooves on S. and 1 groove on N. of cross; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high

East boundary of Tp. 6 N. Rg. 2 E.

Chains. W. of cor. Pits impracticable.
 Land, mountainous.
 Soil, rocky; 4th. rate.
 No timber.
 Undergrowth, greasewood, paloverde and mesquite.
 Mountainous land and land covered with dense undergrowth
 and loose rocks, exceptionally difficult to survey
 80.00 chs.
 May 9: At this cor. I set off 17° 17' N. on the decl.
 arc; and observe the sun on the meridian at noon; the
 resulting lat. is 33° 53' N.

North bet. secs. 1 and 6.
 Along rough E. slope of mountain over loose rocks.
 11.20 Ridge bears N. E. and descend.
 40.00 Set a granite stone 20 x 8 x 4 ins. 15 ins. in the
 ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise
 a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor.
 Pits impracticable.
 61.40 Cross wash 100 lks. wide course E.
 73.30 Cross wash 20 lks. wide course N. E.
 80.00 Set a granite stone 20 x 8 x 6 ins. 15 ins. in the
 ground for cor. of Tps. 6 and 7 N. Rgs. 2 and 3 E.,
 marked with 6 notches on each edge; from which
 A paloverde 6 ins. diam., bears N. 60 $\frac{3}{4}$ ° E. 163
 lks. dist., marked T7NR3ES31BT.
 A paloverde 6 ins. diam., bears S. 40° E. 253
 lks. dist., marked T6NR3ES6BT
 No other trees available. Raise a mound of stone 2 ft.
 base $1\frac{1}{2}$ ft. high, S. of cor. Pits impracticable.
 Land, mountainous and covered with loose rock.
 Soil, rocky; 4th. rate.
 No timber.
 Undergrowth, paloverde.
 Mountainous land and land covered with loose rocks,
 exceptionally difficult to survey 80.00 chs.

May 9, 1910.

North boundary of Tp. 6 N. Rg. 2 E.

Chains.

May 10: At 7h. 00m. a.m., l.m.t., I set off 33° 54' N. on the lat. arc; 17° 30½' N. on the decl. arc; and determine a meridian with the solar at the cor. of Tps. 6 and 7 N. Rgs. 2 and 3 E., previously described.

Thence I run

West on a random line, along the N. bdy. of Tp. 6 N. Rg. 2 E. setting temp. ¼ sec. and sec. cors. at intervals of 40.00 chs.; and at 475.32 chs., intersect the E. bdy. of Tp. 7 N. Rg. 1 E. 4.54 chs. N. of the cor. of Tps. 6 and 7 N. Rgs. 1 and 2 E.

May 10, 1910.

May 11: At 7h. 00m. a.m., l.m.t., I set off 33° 54' N. on the lat. arc; 17° 46' N. on the decl. arc; and determine a meridian with the solar at the cor. of Tps. 6 and 7 N. Rgs. 2 and 3 E.

Thence I run

West bet. secs. 1 and 36, marking and blazing true line. Ascending rocky N. E. slope of mountain, through dense brush over loose rocks.

1.75	Ridge bears N. and S. descend.
10.00	Cross wash 25 lks. wide course N. E. ascend.
19.00	Ridge bears N. and S. descend.
25.00	Cross wash 20 lks. wide course N. E.
29.00	Cross wash 20 lks. wide course N. E.
32.70	Cross wash 20 lks. wide course N. E.
40.00	Set a schist stone 18 x 8 x 5 ins. 12 ins. in the ground for ¼ sec. cor., marked ¼ on N. face; from which A paloverde 7 ins. diam., bears S. 11¼° W. 115 lks. dist., marked ¼ S1BT. A paloverde 7 ins. diam., bears N. 47° W. 88 lks. dist., marked ¼ S36BT.
41.45	Cross wash 15 lks. wide course N. E.
51.00	Cross wash 15 lks. wide course N. E. and ascend.
68.50	Ridge bears N. and S. descend.
78.00	Wash 20 lks. wide course S. W. and ascend.
80.00	Set a schist stone 18 x 10 x 4 ins. 12 ins. in the ground for cor. of secs. 1, 2, 35 and 36, marked with 1 notch on E. and 5 notches on W. edges; and raise a mound of stone 2 ft. base 1½ ft. high, W. of cor. Pits impracticable. Land, mountainous and covered with loose rock. Soil; rocky; 4th. rate. No timber. Undergrowth, paloverde and greasewood. Mountainous land and land covered with dense undergrowth and loose rock, exceptionally difficult to survey, 80.00 chs.

West bet. secs. 2 and 35

Ascending along N. slope of mountain through dense brush over loose rocks.

4.40	Cross drain 5 lks. wide course N.
6.40	Cross drain 5 lks. wide course N.
11.30	Cross drain 5 lks. wide course N.
14.50	Cross drain 5 lks. wide course N.
18.55	Cross drain 5 lks. wide course N.
21.70	Ridge bears N. and S. descend.
38.00	Cross road bears N. E. and S. W.
40.00	Set a granite stone 18 x 8 x 5 ins. 12 ins. in the ground for ¼ sec. cor., marked ¼ on N. face; from which A paloverde 4 ins. diam., bears S. 45° E. 50 lks. dist., marked ¼ S2BT. A paloverde 5 ins. diam., bears N. 48° W. 113

North boundary of Tp. 6 N. Rg. 2 E.

Chains.	lks. dist., marked $\frac{1}{4}$ S35BT..
46.50	Cross wash 40 lks. wide course S. W. and along S, W. slope of mountains.
80.00	Set a malpais stone 24 x 12 x 6 ins. 18 ins. in the ground for cor. of secs. 2, 3, 34 and 35, marked with 2 notches on E. and 4 notches on W. edges; From which A paloverde 5 ins. diam., bears N. 58° E. 56 lks. dist., marked T7NR2ES35BT. A paloverde .5 ins. diam., bears S. 5° E. 189 lks. dist., marked T6NR2ES2BT. A paloverde 6 ins. diam., bears S. 84 $\frac{3}{4}$ ° W. 141 lks. dist., marked T6NR2ES3BT A paloverde 4 ins. diam., bears N. 40 $\frac{1}{4}$ ° W. 51 lks. dist., marked T7NR2ES34BT. Land, mountainous and covered with loose rock. Soil, rocky; 4th. rate. No timber. Undergrowth, greasewood, paloverde and mesquite. Mountainous land and land covered with dense undergrowth and loose rocks, exceptionally difficult to survey 80.00 chs. Mayll: At this cor. I set off 17° 48 $\frac{1}{2}$ ' N. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is 33° 54' N.

	West bet. secs. 3 and 34 Over rolling land covered with loose rocks, through dense brush.
6.30	Cross wash 40 lks. wide course N.
18.00	Cross wash 50 lks. wide course N.
18.80	Cross road bears N. W. and S. E.
38.00	Ridge bears N. W. and S. E.
40.00	Set a malpais stone 18 x 10 x 6 ins. 12 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; from which A paloverde 5 ins. diam., bears S. 34° W. 112 lks. dist., marked $\frac{1}{4}$ S3BT. A mesquite 7 ins. diam., bears N. 11 $\frac{1}{2}$ ° W 60 lks. dist., marked $\frac{1}{4}$ S34BT.
48.50	Road Phoenix to Prescott bears N. and S.
56.20	Old road bears N. and S.
62.00	Cross New River Wash, 200 lks. wide course S.
80.00	Set a granite stone 18 x 8 x 8 ins. 12 ins. in the ground for cor. of secs. 3, 4, 33 and 34, marked with 3 notches on E. and W. edges; from which A paloverde 4 ins. diam., bears N. 3° E. 119 lks. dist., marked T7NR2ES34BT. No other bearings available. Raise a mound of stone 2 ft. base 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, rolling, and covered with loose rocks. Soil, rocky; 4th. rate. No timber. Undergrowth, greasewood and paloverde. Land covered with loose rocks and dense undergrowth, exceptionally difficult to survey 80.00 chs.
	May 11, 1910.

	May 12: At 7h. 00m. a.m., l.m.t., I set off 33° 54' N. on the lat. arc: 18° 01 $\frac{1}{2}$ ' N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 3, 4, 33 and 34, Thence I run West bet. secs. 4 and 33 Over level river bottom through very dense brush. Ascend steep rocky E. slope.
10.00	

North boundary of Tp. 6 N. Rg. 2 E.

Chains.	
16.00	Top and over mesa covered with loose rocks, through dense brush.
40.00	Set a granite stone 20 x 12 x 8 ins. 15 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; from which A paloverde 5 ins. diam., bears S. $12\frac{1}{4}^{\circ}$ E. 53 lks. dist., marked $\frac{1}{4}$ S4BT A paloverde 4 ins. diam., bears N. $74\frac{3}{4}^{\circ}$ E. 103 lks. dist., marked $\frac{1}{4}$ S33BT.
66.00	Cross wash 25 lks. wide course S. W.
80.00	Set a granite stone 18 x 8 x 6 ins. 12 ins. in the ground for cor. of secs. 4, 5, 32 and 33, marked with 4 notches on E. and 2 notches on W. edges; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, level, and covered with loose rocks. Soil, rocky; 4th. rate. No timber. Undergrowth, greasewood and paloverde and mesquite. Land covered with loose rock and dense undergrowth, exceptionally difficult to survey 80.00 chs.
	<hr/>
	West bet. secs. 5 and 32 Over level land covered with loose rocks through dense brush.
19.00	Enter wash 200 lks. wide course S. W.
30.00	Leave wash.
40.00	Set a granite stone 20 x 8 x 8 ins. 15 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; from which An ironwood 5 ins. diam., bears S. $36\frac{1}{4}^{\circ}$ W. 81 lks. dist., marked $\frac{1}{4}$ S5BT. A paloverde 4 ins. diam., bears N. $61\frac{1}{4}^{\circ}$ W. 110 lks. dist., marked $\frac{1}{4}$ S32BT
40.60	Cross wash 50 lks. wide course S. W.
58.75	Cross wash 50 lks. wide course S. W.
66.00	Cross wash 50 lks. wide course S. W.
76.00	Ridge bears N. and S.
80.00	Set a malpais stone 18 x 10 x 8 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; from which A paloverde 4 ins. diam., bears N. $35\frac{1}{2}^{\circ}$ E. 114 lks. dist., marked T7NR2ES32BT A paloverde 6 ins. diam., bears S. 5° E. 98 lks. dist., marked T6NR2ES5BT. A mesquite 8 ins. diam., bears S. $53\frac{1}{4}^{\circ}$ W. 200 lks. dist., marked T6NR2ES6BT. A paloverde 5 ins. diam., bears N. $13\frac{1}{4}^{\circ}$ W. 91 lks. dist., marked T7NR2ES31BT. Land, level and rolling and covered with loose rocks. Soil, rocky: 4th. rate. No timber. Undergrowth, greasewood and paloverde. Land covered with loose rocks and dense undergrowth, exceptionally difficult to survey 80.00 chs. May 12: At this cor. I set off $18^{\circ} 04'$ N. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is $33^{\circ} 54'$ N.
	<hr/>
	West bet. secs. 6 and 31 Over rolling land through dense brush, over loose rocks.
3.00	Cross wash 20 lks. wide course S. W.
30.00	Ridge bears N. and S.
40.00	Set a malpais stone 18 x 8 x 6 ins. 12 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; from which A paloverde 5 ins. diam., bears N. 21° E. 29

North boundary of Tp. 6 N. Rg. 2 E.

Chains.

41.40
75.32

lks. dist., marked $\frac{1}{4}$ S31BT.
 A paloverde 4 ins. diam., bears S. 12° W. 37
 lks. dist., marked $\frac{1}{4}$ S6BT.
 Cross wash 60 lks. wide course S. W.
 Intersect E. bdy. of Tp. 7 N. Rg. 1 E. 4.54 chs. N. of
 the cor. of Tps. 6 and 7 N. Rgs. 1 and 2 E. which is a
 stone, firmly set, and marked and witnessed as described
 by the surveyor general. I obliterate the marks referring
 to the Rgs. E. of the line.
 Set a malpais stone 20 x 10 x 6 ins. 15 ins. in the
 ground for closing cor. of Tps. 6 and 7 N. Rgs. 2 E..
 marked CC on E., with 6 grooves on N., S. and E. faces;
 from which
 A paloverde 6 ins. diam., bears N. 4 $\frac{1}{2}$ ° E. 169
 lks. dist., marked CCT7NR2ES31BT.
 No other bearings available. Raise a mound of stone 2
 ft. base 1 $\frac{1}{2}$ ft. high, E. of cor. Pits impracticable.
 Land rolling and covered with loose rock.
 Soil, rocky; 4th. rate.
 No timber.
 Undergrowth, Greasewood and paloverde.
 Land covered with dense undergrowth and loose rocks,
 exceptionally difficult to survey 75.32 chs.

May 12, 1910.

GENERAL DESCRIPTION.

This Township is rough and mountainous in the N. E. cor.
 The rest of the township is rolling. There is no water
 or timber in the township and the soil is rocky and of
 no value.

East boundary of Tp 7 N. Rg. 2 E.

Chains.	May 13: At 7h. 00m., a.m., l.m.t., I set off 33° 54' N. on the lat. arc; 18° 17' N. on the decl. arc; and determine a meridian with the solar at the cor. of Tps. 6 and 7 N. Rgs. 2 and 3 E. previously described. Thence I run North bet. secs. 31 and 36. Over rolling land, covered with loose rocks, through dense brush
3.00	Cross wash 10 lks. wide course N. E.
18.40	Cross wash 20 lks. wide course E.
21.50	Rocky ridge bears E. and W.
30.50	Cross wash 25 lks. wide course N. W.
33.30	Cross same wash course N. E.
40.00	Set a malpais stone 20 x 12 x 8 ins. 15 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; from which A paloverde 8 ins. diam., bears S. 25° E. 87 lks. dist., marked $\frac{1}{4}$ S31BT. A paloverde 6 ins. diam., bears N. 79 $\frac{1}{2}$ ° W. 87 lks. dist., marked $\frac{1}{4}$ S36BT.
56.00	Ridge bears E. and W.
69.35	Cross wash 10 lks. wide course N. W.
80.00	Set a granite stone 18 x 8 x 6 ins. 12 ins. in the ground for cor. of secs. 25, 30, 31 and 36, marked with 1 notch on S. and 5 notches on N. edges; from which A mesquite 4 ins. diam., bears N. 46 $\frac{1}{2}$ ° E. 205 lks. dist., marked T7NR3ES30BT. A paloverde 6 ins. diam., bears S. 47° E. 274 lks. dist., marked T7NR3ES31BT. A mesquite 6 ins. diam., bears S. 35 $\frac{1}{2}$ ° W. 300 lks. dist., marked T7NR2ES36BT. A mesquite 5 ins. diam., bears N. 50° W. 179 lks. dist., marked T6NR2ES25BT. Land rolling and covered with loose rocks. Soil, rocky; 4th. rate. No timber. Undergrowth, greasewood, paloverde and mesquite. Land covered with dense undergrowth and loose rocks, exceptionally difficult to survey 80.00 chs.
	North bet. secs. 25 and 30 Descending over loose rocks, through dense undergrowth.
17.50	Cross wash 20 lks. wide course S. W. and ascend.
23.00	Cross wash 10 lks. wide course S. W.
28.00	Cross wash 10 lks. wide course S. W.
40.00	Set a malpais stone 20 x 8 x 6 ins. 15 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; from which A paloverde 5 ins. diam., bears S. 47° E. 68 lks. dist., marked $\frac{1}{4}$ S30BT. A paloverde 4 ins. diam., bears S. 74° W. 55 lks. dist., marked $\frac{1}{4}$ S25BT.
43.45	Cross drain 5 lks. wide course S. W.
48.00	Ridge bears E. and W. descend.
59.55	Cross wash 20 lks. wide course S. W. and ascend.
70.00	Ridge bears E. and W. descend.
80.00	Set a malpais stone 18 x 6 x 6 ins. 12 ins. in the ground for cor. of secs. 19, 24, 25 and 30, marked with 2 notches on S. and 4 notches on N. edges; from which A paloverde 5 ins. diam., bears N. 21 $\frac{1}{2}$ ° E. 27 lks. dist., marked T7NR3ES19BT. A paloverde 5 ins. diam., bears S. 63° E. 200 lks. dist., marked T7NR3ES30BT. A paloverde 4 ins. diam., bears N. 47° W. 196 lks. dist., marked T7NR2ES24BT. No other bearings available. Raise a mound of stone 2 ft. base $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, mountainous and covered with loose rocks. Soil, rocky; 4th. rate. No timber.

East boundary of Tp. 7 N. Rg. 2 E.

Chains. Undergrowth, paloverde, greasewood and mesquite.
 Mountainous land and land covered with dense undergrowth
 and loose rocks 80.00 chs.
 May 13: At this cor. I set off 18° 19' N. on the decl.
 arc: and observe the sun on the meridian at noon, the
 resulting lat. is 33° 55½' N.

North bet. secs. 19 and 24
 Descending over loose rocks, through dense brush.
 10.45 Cross wash 15 lks. wide course S. W. and ascend.
 15.26 Cross road bears S. E. and N. W.
 18.00 Ridge bears N. E. and S. W. and descend.
 40.00 Set a malpais stone 18 x 12 x 6 ins. 12 ins. in the
 ground for ¼ sec. cor., marked ¼ on W. face; from which
 A paloverde 5 ins. diam., bears S. 5° E. 27 lks.
 dist., marked ¼ S19BT.
 A paloverde 6 ins. diam., bears S. 80° W. 172 lks.
 dist., marked ¼ S24BT.
 43.45 Cross wash 40 lks. wide course S. W. ascend.
 47.65 Cross road bears E. and W.
 65.00 Ridge bears E. and W. descend.
 67.00 Cross wash 20 lks. wide course S. W.
 77.00 Cross wash 15 lks. wide course S. W. and ascend S. W.
 slope:
 80.00 Set a granite stone 20 x 10 x 8 ins. 15 ins. in the
 ground for cor. of secs. 13, 18, 19 and 24, marked with
 3 notches on N. and S. edges: and raise a mound of stone
 2 ft. base 1½ ft. high, W. of cor. Pits impracticable.
 Land, mountainous and covered with loose rocks.
 Soil, rocky: 4th. rate.
 No timber.
 Undergrowth, greasewood, paloverde and mesquite.
 Mountainous land and land covered with dense undergrowth
 and loose rocks, exceptionally difficult to survey 80.00
 chs.

May 13, 1910.

May 14: At 7h. 00m., a.m., 1, m.t., I set off 33° 56½' N
 on the lat. arc; 18° 31½' 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
 Ascending along S. W. slope of mountain covered with lo
 100se rocks, through dense undergrowth.
 9.65 Cross wash 10 lks. wide course S. W.
 23.50 Ridge bears S. W. and N. E. descend.
 32.37 Cross wash 50 lks. wide course S. W. ascend.
 40.00 Set a granite stone 18 x 12 x 8 ins. 12 ins. in the
 ground for ¼ sec. cor., marked ¼ on W. face; from which
 A paloverde 4 ins. diam., bears N. 45° E. 76
 lks. dist., marked ¼ S18BT.
 A paloverde 5 ins. diam., bears S. 74½° W. 123
 lks. dist., marked ¼ S13BT.
 45.00 Ridge bears E. and W. descend.
 49.35 Cross wash 20 lks. wide course S. W. ascend.
 59.80 Ridge bears E. and W. descend.
 80.00 Set a malpais stone 18 x 8 x 6 ins. 12 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; and raise a
~~mound of stone 2 ft. base 1½ ft. high, W. of cor. Pits~~
 impracticable.
 Land, mountainous and covered with loose rocks.
 Soil, rocky; 4th. rate.

10A From which A palo verde 3 ins. in diam. bears N. $13\frac{1}{2}^{\circ}$ E. 96 lks.
 dist. marked T 7 N., R 3 E S 7 B T
 A mesquite 4 ins. in diam. bears S. $7\frac{1}{4}^{\circ}$ E. 62 lks.
 dist. marked T 7 N R 3 E S 18 B T
 A mesquite 4 ins. in diam. bears S $23\frac{1}{2}^{\circ}$ W. 132 lks.
 dist. marked T 7 N R 2 E S 13 B T and
 A mesquite 4 ins in diam bears N $19\frac{1}{2}^{\circ}$ W 106 lks
 dist marked T 7 N R 2 E S 12 B T

BOOK

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East boundary of Tp. 7 N. Rg. 2 E.

Chains.	<p>No timber. Undergrowth, greasewood, paloverde and mesquite. Mountainous land and land covered with dense undergrowth and loose rocks, exceptionally difficult to survey 80.00 chs.</p>
	—————
	<p>North bet. secs. 7 and 12 Ascending along S. W. slope of mountain covered with loose rocks, through dense brush.</p>
8.75	Cross wash 20 lks. wide course S. W. ascend.
25.30	Top of mountain descend.
30.00	Saddle and ascend S. E. slope of mountain.
40.00	Set a quartz stone 18 x 12 x 8 ins. 12 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; from which A paloverde 4 ins. diam., bears East 165 lks. dist., marked $\frac{1}{4}$ S 7 B T. A paloverde 5 ins. diam., bears S. $59\frac{1}{4}^{\circ}$ W. 104 lks. dist., marked $\frac{1}{4}$ S12BT.
42.00	Ridge bears E. and W. descend.
65.67	Cross wash 20 lks. wide course N. E. and ascend.
73.00	Ridge bears E. and W. descend.
80.00	Set a malpais stone 18 x 8 x 6 ins. 12 ins. in the ground for cor. of secs. 1, 6, 7 and 12, marked with 1 notch on N. and 5 notches on S. edges; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, mountainous and covered with loose rocks. Soil, rocky; 4th. rate. No timber. Undergrowth, greasewood, paloverde and mesquite. Mountainous land and land covered with dense undergrowth and loose rocks, exceptionally difficult to survey 80.00 chs.
	<p>May 14; At this cor. I set off $18^{\circ} 33\frac{1}{2}'$ N. On the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is $33^{\circ} 58'$ N.</p>
	—————
	<p>North bet. secs. 1 and 6 Descend steep rocky slope of mountain through dense brush.</p>
0.73	Left bank of New River Wash, dry, course W.
6.82	Right bank of New River Wash
9.83	Cross wash 25 lks. wide course S. W
11.00	Leave wash and along E. slope of mountains.
33.00	Cross drain 5 lks. wide course N. E.
40.00	Set a granite stone 18 x 10 x 6 ins. 12 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; from which A paloverde 5 ins. diam., bears N. $87\frac{1}{2}^{\circ}$ E. 123 lks. dist., marked $\frac{1}{4}$ S6BT. An ironwood 6 ins. diam., bears N. $0\frac{1}{2}^{\circ}$ W. 110 lks. dist., marked $\frac{1}{4}$ S1BT.
52.22	Deserted house bears S. $36^{\circ} 38'$ W.
71.62	Same house bears S. 29° W.
72.00	Top of long ridge bears E. and W. descend.
80.00	Set a granite stone 20 x 8 x 8 ins. 15 ins. in the ground for cor. of Tps. 7 and 8 N. Rgs. 2 and 3 E. marked 8N on N. E., 3E on S. E., 7N on S. W. and 2E on N. W. faces, with 6 notches on each edge; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, S. of cor. Pits impracticable. Land, mountainous and covered with loose rocks. Soil, rocky; 4th. rate. No timber. Undergrowth, paloverde, mesquite and greasewood. Mountainous land and land covered with dense undergrowth

East boundary of Tp. 7 N. Rg. 2 E.

Chains.

and loose rocks exceptionally difficult to survey. 80.00
chs.

May 14, 1910.



North boundary of Tp. 7 N. Rg. 3 E. ✓

Chains.	May 16: At 7h. 00m., a.m., 1.m.t., I set off 33° 59' N. on the lat. arc; 19° 00' N. on the decl. arc; and determine a meridian with the solar at the cor. of Tps. 7 and 8 N. Rgs. 2 and 3 E. Previously described.
	Thence I run
	West bet. secs. 1 and 36
	Ascending along n. slope of ridge over loose rocks, through dense undergrowth.
4.80	Cross drain 5 lks. wide course N.
15.00	Spur runs N. W. and descend.
19.75	Cross drain 6 lks. wide course N.
32.00	Cross drain 5 lks. wide course N.
36.45	Cross drain 6 lks. wide course N.
40.00	Set a granite stone 24 x 12 x 10 ins. 18 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
44.20	Cross wash 15 lks. wide course N. ascend.
50.00	Spur bears N.
55.30	Cross wash 15 lks. wide course N. ascend.
56.20	Cross drain 7 lks. wide course N.
61.75	Cross drain 5 lks. wide course N.
67.60	Cross drain 7 lks. wide course N.
71.30	Spur bears N. descend.
73.30	Cross wash 15 lks. wide course N. ascend.
79.00	Spur bears N. descend.
80.00	Set a malpais stone 24 x 8 x 6 ins. 18 ins. in the ground for cor. of secs. 1, 2, 35 and 36, marked with 1 notch on E. and 5 notches on W. edges; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
	Land, mountainous and covered with loose rocks.
	Soil, rocky; 4th. rate.
	No timber.
	Undergrowth, greasewood, paloverde and mesquite.
	Mountainous land and land covered with dense undergrowth and loose rocks, exceptionally difficult to survey 80.00 chs.
	<u>West bet. secs. 2 and 35.</u>
	Descending over loose rocks, through dense brush.
2.50	Cross wash 15 lks. wide course N.
6.00	Spur bears N.
7.90	Cross drain 6 lks. wide course N.
12.00	Spur bears N. W. and descend.
21.75	Cross wash 50 lks. wide course N. W.
33.00	Cross wash 50 lks. wide course N. W. and ascend.
38.00	Ridge bears N. and S. descend.
40.00	Set a granite stone 18 x 8 x 8 ins. 12 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; from which A paloverde 5 ins. diam., bears N. 74° W. 94 lks. dist., marked $\frac{1}{4}$ S35BT.
	no other bearing available. Raise a mound of stone 2 ft base $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
43.00	Cross drain 6 lks. wide course N.
48.50	Cross drain 6 lks. wide course N.
52.25	Enter wash 25 lks. wide course N. W. and along same to
76.00	Leave wash course N. W. ascend.
80.00	Set a granite stone 18 x 8 x 5 ins. 12 ins. in the ground for cor. of secs. 2, 3, 34 and 35, marked with 2 notches on E. and 4 notches on W. edges; from which A paloverde 4 ins. diam., bears N. 3° W. 56 lks. dist., marked T8NR2ES34BT.
	No other bearings available. 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.

North boundary of Tp. 7 N. Rg. 2 E.

Chains.	Undergrowth, Greasewood and paloverde. Mountainous land and land covered with dense undergrowth and loose rocks, exceptionally difficult to survey 80.00 chs. May 16: At this cor. I set off 19° 02' N. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is 33° 59' N.
	West bet. secs. 3 and 34 Ascending E. slope over loose rocks through dense brush.
10.50	Cross wash 10 lks. wide course N. W. ascend.
16.00	Ridge bears N. W. and S. E. descend.
33.00	Cross wash 25 lks. wide course S. W. and over rolling land.
40.00	Set a granite stone 18 x 10 x 6 ins. 12 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; from which A mesquite 6 ins. diam., bears N. 73 $\frac{1}{4}$ ° E. 45 lks. dist., marked $\frac{1}{4}$ S34BT. A mesquite 6 ins. diam., bears S 25 $\frac{1}{4}$ ° W. 150 lks. dist., marked $\frac{1}{4}$ S3BT.
55.58	Cross road Phoenix to Prescott bears N. W. and S. E.
63.20	Cross drain 6 lks. wide course S. W.
66.70	Cross drain 6 lks. wide course S. W.
80.00	Set a malpais stone 18 x 8 x 4 ins. 12 ins. in the ground for cor. of secs. 3, 4, 33 and 34, marked with 3 notches on E. and W. edges; from which A paloverde 5 ins. diam., bears N. 50° E. 73 lks. dist., marked T8NR2ES34BT. A paloverde 5 ins. diam., bears N. 12° W. 105 lks. dist., marked T8NR2ES33BT. No other bearings available. Raise a mound of stone 2 ft base $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, mountainous and rolling and covered with loose rocks. Soil, rocky; 4th. rate. No timber. Undergrowth, greasewood, paloverde and mesquite. Mountainous land and land covered with dense undergrowth and loose rocks, exceptionally difficult to survey 80.00 chs.
	May 16, 1910.
	May 17: At 7h. 00m., a.m., 1.m.t., I set off 33° 59' N. on the lat. arc: 19° 14' N. on the decl. arc: and determine a meridian with the solar at the cor. of secs. 3, 4, 33 and 34 Thence I run West bet. secs. 4 and 33 Over rolling land through dense brush over loose rocks.
9.00	Enter wash 25 lks. wide course N. W.
16.00	Leave wash course N. W, ascend.
30.00	Ridge bears N. and S. descend.
40.00	Set a malpais stone 18 x 10 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 6 ins. diam., bears S. 47 $\frac{1}{2}$ ° E. 82 lks. dist., marked $\frac{1}{4}$ S4BT. A paloverde 6 ins. diam., bears N. 70 $\frac{1}{4}$ ° W. 94 lks. dist., marked $\frac{1}{4}$ S33BT.
51.00	Cross wash 15 lks. wide course N. W. ascend.
56.00	Cross drain 5 lks. wide course N. W.
62.00	Ridge bears N. and S. descend.
70.00	Wash 25 lks. wide course N. W.
80.00	Set a malpais stone 18 x 6 x 6 ins. 12 ins. in the ground for cor. of secs. 4, 5, 32 and 33, marked with

North boundary of Tp. 7 N. Rg. 2 E.

Chains.	4 notches on E. and 2 notches on W. edges; from which A mesquite 6 ins. diam.; bears N. $69\frac{1}{4}^{\circ}$ E. 153 lks: dist., marked T8NR2ES33BT. A mesquite 4 ins. diam, bears S. $10\frac{1}{4}^{\circ}$ E. 71 lks: dist., marked T7NR2ES4BT. A mesquite 4 ins. diam., bears S. $56\frac{1}{2}^{\circ}$ W. 130 lks. dist., marked T7NR2ES5BT. A mesquite 4 ins. diam., bears N. $51\frac{1}{2}^{\circ}$ W. 193 lks. dist., marked T8NR2ES32BT. Land, rolling and mountainous and covered with loose rock Soil, rocky; 4th. rate. No timber. Undergrowth, mesquite, greasewood and paloverde. Mountainous alnd and land covered with dense undergrowth and loose rocks, exceptionally difficult to survey 80.00 chs.
	West bet. secs. 5 and 32 Over level land covered with loose rocks, through dense brush.
14.40	Cross wash 20 lks. wide course N. W.
18.30	Cross wash 20 lks. wide course N. W.
22.50	Cross wash 20 lks. wide course N. W. and ascend.
33.50	Ridge bears N. and S. descend.
40.00	Set a slate stone 20 x 8 x 4 ins. 15 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; from which A paloverde 6 ins. diam, bears S. $37\frac{1}{2}^{\circ}$ E. 88 lks. dist., marked $\frac{1}{4}$ S5BT. A paloverde 5 ins. diam., bears N. $11\frac{1}{4}^{\circ}$ E. 75 lks. dist., marked $\frac{1}{4}$ S32BT.
45.45	Cross wash 20 lks. wide course N. W. ascend.
50.00	Ridge bears N. and S. descend.
66.15	Cross road bears N. W. and S. E.
79.75	Cross wash 10 lks. wide course S. W.
80.00	Set a malpais stone 20 x 8 x 4 ins. 15 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; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, level and mountainous and covered with loose rocks. Soil; rocky; 4th. rate. No timber. Undergrowth, greasewood, paloverde and mesquite Mountainous land and land covered with dense undergrowth and loose rocks, exceptionally difficult to survey 80.00 chs. May 17: At this cor. I set off $19^{\circ} 16'$ N. on the decl. arc; and observe the sun on the meridian at noon, the resulting lat. is $33^{\circ} 59'$ N.
	West bet. secs. 6 and 31 Over rolling land covered with loose rocks, through dense brush.
10.00	Ridge bears N. and S.
25.00	Left bank of Agua Fria River.
28.00	Running water in river bed 75 lks. wide course S, W.
32.00	Right bank of Agua Fria River.
40.00	Set a malpais stone 18 x 10 x 4 ins. 12 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; from which A paloverde 5 ins. diam., bears S. $71\frac{1}{4}^{\circ}$ W. 63 lks. dist., marked $\frac{1}{4}$ S6BT. A paloverde 6 ins. diam., bears N. 9° W. 72 lks. dist., marked $\frac{1}{4}$ S31BT.
41.00	Ridge bears N. and S.
54.60	Cross road bears N. and S.

North boundary of Tp. 7 N. Rg. 2 E.

Chains.
55.20
62.65
70.00
73.10

Cross wash 30 lks. wide course S.
 Cross wash 30 lks. wide course S.
 Ridge bears N. and S.
 Intersect E. bdy. of Tp. 8 N. Rg. 1 E. 6.12 chs. N. of
 the cor. of Tps. 7 and 8 N. Rgs. 1 and 2 E. which is
 a granite stone marked and witnessed as described by the
 surveyor general. I obliterate the marks referring to
 the Tps. E. of the Line, and set a malpais stone 20 x 10
 x 10 ins. 15 ins. in the ground for closing cor. of Tps.
 7 and 8 N. Rgs. 2 E. marked with 6 grooves on N., E.,
 and S. faces and CC on E. face; from which
 An ironwood 6 ins. diam., bears N. $64\frac{3}{4}^{\circ}$ E. 93
 lks. dist., marked CCT8NR2ES31BT.
 A paloverde 6 ins. diam., bears S. $57\frac{1}{2}^{\circ}$ E. 159
 lks. dist., marked CCT7NR2ES6BT.
 Land, rolling, and covered with loose rocks.
 Soil, rocky; 4th. rate.
 No timber.
 Undergrowth, mesquite, paloverde and greasewood.
 Land covered with dense undergrowth and loose rocks,
 exceptionally difficult to survey 73.10 chs.

May 17, 1910.

East boundary of Tp. 7 N. Rg. 1 E.

Chains.	<p>May 23: At 7h. 00m., a.m., l.m.t., I set off $33^{\circ} 54\frac{1}{2}'$ N. on the lat. arc; $20^{\circ} 30'$ N. on the decl. arc; and determine a meridian with the solar at the $\frac{1}{4}$ sec. cor. bet. secs. 31 and 36 on the W. bdy. of the Tp. which is a granite stone, marked and witnessed as described by the surveyor general</p> <p>Thence I run North on a random line along the W. bdy. of Tp. 7 N. Rg. 2 E. setting temp. $\frac{1}{4}$ sec. and sec. cors. at intervals of 40.00 chs.; and at 320.92 chs. fall 196 lks. W. of the $\frac{1}{4}$ sec. cor. bet. secs. 7 and 12 which is a rock in place marked and witnessed as described by the surveyor general. The falling answers to a correction of $0^{\circ} 21'$, or 49 lks. E. per mile counting from the $\frac{1}{4}$ sec. cor. bet. secs. 31 and 36.</p> <p style="text-align: right;">May 23. 1910.</p> <hr/> <p>May 24: At 7h. 00m. a.m., l.m.t., I set off $33^{\circ} 54\frac{1}{2}'$ N. on the lat. arc; $20^{\circ} 41\frac{1}{2}'$ N. on the decl. arc; and determine a meridian with the solar at the $\frac{1}{4}$ sec. cor. bet. secs. 31 and 36</p> <p>Thence I run N. $0^{\circ} 21'$ E. bet. secs. 31 and 36, marking and blazing true line Ascending steep rocky S. E. slope of mountain over loose rocks.</p> <p>8.00 Top ridge and descend Steep rocky N. slope. 28.00 Cross wash 20 lks. wide course N. E. and ascend steep slope. 40.00 Set a malpais stone 24 x 10 x 10 ins. 18 ins. in the ground for cor. of secs. 25, 30, 31 and 36, marked with 1 notch on S. and 5 notches on N. edges; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, mountainous and rough and covered with loose rocks. Soil, rocky; 4th. rate. No timber Undergrowth, paloverde and greasewood. Mountainous land covered with loose rocks, exceptionally difficult to survey 40.00 chs.</p> <hr/> <p>N. $0^{\circ} 21'$ E. bet. secs. 25 and 30 Ascending S. E. slope of mountain through dense brush, over loose rocks.</p> <p>6.00 Ridge bears E. and W. 11.50 Cross wash 25 lks. wide course N. E. and ascend along E. slope of ridge. 40.00 Set a malpais stone 20 x 14 x 6 ins. 15 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Descend N. E. slope of ridge. 52.00 Cross wash 25 lks. wide course E. ascend S. E. slope of high peak. 77.00 Top of peak and descend N. E. slope. 80.00 Set a malpais stone 24 x 12 x 12 ins. 18 ins. in the ground for cor. of secs. 19, 24, 25 and 30, marked with 2 notches on S. and 4 notches on N. edges; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, rough and mountainous and covered with loose rocks. Soil, rocky; 4th. rate. No timber.</p>
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East boundary of Tp. 7 N. Rg. 1 E.

Chains.	Undergrowth, greasewood and paloverde. Mountainous land and land covered with dense undergrowth and loose rocks, exceptionally difficult to survey 80.00 chs. May 24: at this cor I set off $20^{\circ} 43'$ N. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is $33^{\circ} 55\frac{1}{2}'$ N.
13.00	N. $0^{\circ} 21'$ E. bet. secs. 19 and 24. Descending N. E. slope of peak over loose rocks and through dense undergrowth Cross wash 20 lks. wide course S. W. and along S. W. slope of mountain.
23.00	Cross wash 15 lks. wide course S. W.
40.00	Set a malpais stone 18 x 10 x 6 ins. 12 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high W. of cor. Pits impracticable.
41.00	Cross drain 6 lks. wide course S. W.
80.00	Set a malpais stone 28 x 24 x 24 ins. 21 ins. in the ground for cor. of secs. 13, 18, 19 and 24, marked with 3 notches on S. and N. edges; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, rough and mountainous and covered with loose rocks. Soil, rocky; 4th. rate. No timber. Undergrowth, greasewood and paloverde. Mountainous land and land covered with dense undergrowth and loose rocks, exceptionally difficult to survey 80.00 chs.
	May 24, 1910.
	May 25: At 7h. 00m., a.m., l.m.t., I set off $33^{\circ} 56\frac{1}{2}'$ N. on the lat. arc; $20^{\circ} 53'$ 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 N. $0^{\circ} 21'$ E. bet. secs. 13 and 18 Descending N. W. slope over loose rocks, through dense brush
7.50	Cross wash 20 lks. wide course S. W. and ascend.
25.80	Rim of mesa and over top of mesa.
40.00	Set a malpais stone 20 x 10 x 10 ins. 15 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
66.00	Cross wash 25 lks. wide course N. E.
80.00	Set a malpais stone 36 x 34 x 32 ins. 27 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; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, mountainous and covered with loose rock. Soil, rocky; 4th. rate. No timber. Undergrowth, greasewood and paloverde. Mountainous land and alnd covered with dense undergrowth and loose rocks, exceptionally difficult to survey 80.00 chs.
	N. $0^{\circ} 21'$ E. bet. secs. 7 and 12 Over mesa through dense brush, over loose rocks.

East boundary Of Tp. 7 N. Rg. 1 E.

Chains.		
29.27	Descend steep rocky N. slope.	
40.92	The $\frac{1}{4}$ sec. cor. bet. secs. 7 and 12, previously described.	SEE TOP OF PAGE 17
	Thence from $\frac{1}{4}$ sec. cor. I run North	
32.00	Left bank of Agua Fria River, course W.	
38.75	Right bank of Agua Fria River	
39.86	Cross fence bears E. and W.	
39.90	I find trace of old cor. 14 lks. W. which I destroy and reestablish in the same place as follows;	
	Set a malpais stone 18 x 8 x 8 ins. 12 ins. in the ground for cor. of secs. 1, 6, 7 and 12, marked with 5 notches on S. and 1 notch on N. edges; from which	
	A mesquite 12 ins. diam., bears S. 65° W. 167 lks. dist., marked T7NR1ES12BT.	
	No other bearings 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.	
	Course of this half mile is N. 0° 12' W. 39.90 chs.	
	Land, mountainous, and covered with loose rock.	
	Soil, rocky; 4th. rate,	
	No timber.	
	Undergrowth, Greasewood, paloverde, catclaw and mesquite.	
	Mountainous land and land covered with dense undergrowth and loose rocks, exceptionally difficult to survey 80.82 chs.	
	May 25: At this cor. I set off 20° 54' N. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is 33° 58' N.	

	North bet. secs. 1 and 6	
	over level cultivated land.	
2.15	Cross ditch bears E. and W 5 lks. wide.	
6.25	Cross fence bears E. and W. and over rolling land through dense brush over loose rocks.	
12.50	Cross drain 5 lks. wide course S. E.	
16.80	Cross drain 5 lks. wide course S. E.	
30.50	Ridge bears N. W. and S. E.	
39.00	Cross wash 15 lks. wide course N. E.	
39.94	Fall 14 lks. E. of the remains of old $\frac{1}{4}$ sec. cor., which I destroy and reestablish in the same place as follows;	
	Set a malpais stone 20 x 10 x 10 ins. 15 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; from which	
	An ironwood 4 ins. diam., bears S. 62 $\frac{1}{4}$ ° E. 48 lks. dist., marked $\frac{1}{4}$ S6BT.	
	An ironwood 8 ins. diam., bears N. 85 $\frac{1}{4}$ ° W. 105 lks. dist., marked $\frac{1}{4}$ S1BT.	
	Course of this half mile is N. 0° 12' W. 39.94 chs.	
	Thence from $\frac{1}{4}$ sec. cor. North	
9.30	Cross drain 5 lks. wide course S. E.	
16.70	Cross wash 10 lks. wide course N. E.	
20.00	Cross wash 15 lks. wide course N. E.	
22.30	Cross wash 25 lks. wide course S. E.	
39.25	Fall 14 lks. E. of the cor. of Tps. 7 and 8 N. Rg. 1 E. previously described. Course of this $\frac{1}{2}$ mile is N. 0° 12' W, 39.25 chs.	
	Land, level and rolling.	
	Soil, rocky and loamy; 1st. and 4th. rate.	
	No timber.	
	Undergrowth, paloverde, greasewood, mesquite and catclaw	
	Land covered with dense undergrowth and loose rocks, exceptionally difficult to survey 72.94 chs.	

May 25, 1910.

*Boundaries of T. 7 N., R. 2 E.
Latitudes, departures and closing errors.*

Line designated	True bearing	Distance	Latitudes		Departures	
			N.	S.	E.	W.
		Chs.	Chs.	Chs.	Chs.	Chs.
N. bdy. T. 7 N., R. 2 E.	West	473.10				473.10
W. bdy. T. 7 N., R. 2 E.,	South	6.12		6.12		
	S 0°12'E.	119.09		119.09	42	
	S 0°21'W.	320.92		320.92		1.96
	South	35.46		35.46		
S. bdy. T. 7 N., R. 2 E.	East	475.32			475.32	
E. bdy. T. 7 N., R. 2 E.	North	480.00	480.00			
Convergency						.49
Totals			480.00	481.59	475.74	475.55
				480.00	475.55	
Error in lat.				1.59	.19	Error dep.

GENERAL DESCRIPTION.

This Township is rough and mountainous. There is no water in the township except during the rainy season. there is no timber in the township.

East boundary of Tp. 8 N. Rg. 2 E.

Chains.	May 19: At 7h. 00m. a.m., l.m.t., I set off 33° 59' N. ✓ on the lat. arc; 19° 41' N. ✓ on the decl. arc; and determine a meridiain with the solar at the cor. of Tps. 7 and 8 N. Rgs. 2 and 3 E., previously described. Thence I run North bet. secs. 31 and 36 Descending steep slope over loose rocks, through dense brush 9.75 Cross wash 20 lks. wide course N. E. ascend. 14.50 Ridge bears N. E. and S. W. descend. 40.00 Set a granite stone 18 x 8 x 5 ins. 12 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; from which A mesquite 12 ins. diam., bears N. 59 $\frac{1}{2}$ ° E. 91 lks. dist., marked $\frac{1}{4}$ S31BT A mesquite 10 ins. diam., bears N. 84° W. 123 lks. dist., marked $\frac{1}{4}$ S36BT. 40.60 Cross wash 100 lks. wide course W. ascend. 45.55 Cross road bears E. and W. 56.40 Cross drain 5 lks. wide course S. E. Ascend. 68.00 Ridge bears E. and W. descend. 76.75 Cross wash 15 lks. wide course N. W. ascend. 80.00 Set a malpais stone 18 x 10 x 8 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; from which A paloverde 4 ins. diam. bears N. 76 $\frac{1}{2}$ ° E. 21 lks. dist., marked T8NR3ES3OBT. A paloverde 5 ins. diam. bears S. 85 $\frac{1}{4}$ ° W. 120 lks. dist., marked T8NR2ES36BT. A paloverde 5 ins. diam., bears N. 31° W. 132 lks. dist., marked T8NR2ES25BT. No other bearings available. Raise a mound of stone 2 ft. base 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, mountainous, and covered with loose rocks. Soil, rocky; 4th. rate. No timber. Undergrowth, paloverde, mesquite and greasewood. Mountainous land and land covered with dense undergrowth and loose rocks, exceptionally difficult to survey, 80.00 chs.
	North bet. secs. 25 and 30 Ascending over loose rocks, through dense undergrowth. 11.00 Ridge bears N. E. and S. W. descend. 15.30 Cross wash 25 lks. wide course S. W. ascend. 24.80 N. E. cor. of house. 25.40 Cross road bears E. and W. 38.50 Ridge bears E. and W. descend. 40.00 Set a quartz stone 20 x 8 x 5 ins. 15 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; from which A paloverde 4 ins. diam., bears S. 34 $\frac{1}{2}$ ° W. 108 lks. dist. marked $\frac{1}{4}$ S25BT. No other bearings available. Raise a mound of stone 2 ft. base 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. From this cor. gallows frame on shaft bears N. 26° 04' W. 43.25 Cross drain 5 lks. wide course S. W. 45.63 Ridge bears E. and W. descend. Gallows frame on shaft bears N. 39° 12' W. 55.25 Cross drain bears S. W. 71.40 Cross wash 35 lks. wide course S. W. and ascend along S. E. slope. 80.00 Set a granite stone 20 x 10 x 8 ins. 15 ins. in the ground for cor. of secs. 19, 24, 25 and 30, marked with 2 notches on S. and 4 notches on N. edges; from which A aploverde 5 ins. diam., bears N. 63 $\frac{1}{4}$ ° E. 153 lks. dist., marked T8NR3ES19BT. A paloverde 4 ins. diam., bears S. 27° E. 23 lks. dist., marked T8NR3ES3OBT. A paloverde 4 ins. diam., bears S. 61 $\frac{3}{4}$ ° W. 133

East boundary of Tp. 8 N. Rg. 3 E.

Chains.

lks. dist., marked T8NR2ES25BT.
 A paloverde 4 ins. diam., bears N. $51\frac{7}{8}^\circ$ W. 79
 lks. dist., marked T8NR2ES24BT.
 Land, mountainous and covered with loose rocks.
 Soil, rocky; 4th. rate.
 No timber.
 Undergrowth, graesewood, mesquite, paloverde and oak.
 Mountainous land and land covered with dense undergrowth
 and loose rocks, exceptionally difficult to survey 80.00
 Chs.
 May 19: At thsi cor. I set off $19^\circ 42\frac{1}{2}'$ N. on the decl.
 arc; and observe the sun on the meridian at noon; the
 resulting lat. is $34^\circ 01'$ N.

North bet. secs. 19 and 24.

Descending along N. E. slope, over loose rocks, through
dense undergrowth.

5.35 Cross drain 5 lks. wide course E.
 17.00 Granite Knoll descend.
 25.40 Cross wash 25 lks. wide course S. W. ascend.
 38.40 Ridge bears E. and W. descend.
 40.00 Set a granite stone 20 x 10 x 8 ins. 15 ins. in the
 ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; from which
 A paloverde 5 ins. diam., bears N. 80° E. 59
 lks. dist., marked $\frac{1}{4}$ S19BT
 A paloverde 5 ins. diam., bears N. $8\frac{1}{2}^\circ$ W. 80
 lks. dist., marked $\frac{1}{4}$ S24BT.
 44.85 Cross drain 6 lks. wide course N. W.
 45.10 Cross drain 6 lks. wide course N. W.
 50.50 Cross drain 6 lks. wide course N. W.
 58.00 Cross drain 7 lks. wide course N. W. and ascend.
 67.40 Ridge bears N. W. and S. E.
 80.00 Set a granite stone 18 x 8 x 8 ins. 12 ins. in the
 ground for cor. of secs. 13, 18, 19 and 24, marked with
 3 notches on S. and N. edges; from which
 A paloverde 5 ins. diam., bears N. $71\frac{3}{4}^\circ$ E. 117
 lks. dist., marked T8NR3ES18BT.
 No other bearings available. Raise a mound of stone 2
 ft. base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
 Land, mountainous and covered with loose rocks.
 Soil, rocky; 4th. rate.
 No timber.
 Undergrowth, greasewood, paloverde and catclaw.
 Mountainous alnd and land covered with dense undergrowth
 and loose rocks, 80.00 chs.

May 19, 1910.

May 20; At 7h. 00m., a.m., 1.m.t., I set off $34^\circ 01\frac{1}{2}'$ /
 N. on the lat. arc; $19^\circ 53\frac{1}{2}'$ 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

Descending along N. W. slope of mountain, covered with
loose rocks, through dense brush.

32.50 Cross wash 150 lks. wide course S. W. ascend.
 40.00 Set a granite stone 18 x 8 x 6 ins. 12 ins. in the
 ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; from which
 A mesquite 6 ins. diam., bears N. 74° E. 73
 lks. dist., marked $\frac{1}{4}$ S18BT.
 A mesquite 4 ins. diam., bears N. $84\frac{1}{4}^\circ$ W. 77
 lks. dist., marked $\frac{1}{4}$ S13BT.
 52.00 Ridge bears S. W. and N. E. descend.
 58.00 Cross wash 50 lks. wide course S. W. ascend.
 67.20 Cross drain 6 lks. wide course S. W.

East boundary of Tp. 8 N. Rg. 2 E.

Chains.	
71.85	Ridge bears N. E. and S. W. descend.
75.00	Cross wash 20 lks. wide course S. W. ascend.
80.00	Set a malpais stone 20 x 8 x 8 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; from which An ironwood 10 ins. diam., bears N. $49\frac{3}{4}^{\circ}$ E. 233 lks. dist., marked T8NR3ES7BT. An ironwood 10 ins. diam., bears S. $83\frac{1}{4}^{\circ}$ E. 250 lks. dist., marked T8NR3ES18BT. A paloverde 4 ins. diam., bears S. 65° W. 53 lks. dist., marked T8NR2ES13BT. A paloverde 5 ins. diam., bears N. $31\frac{1}{2}^{\circ}$ W. 175 lks. dist., marked T8NR2ES12BT.
	Land, mountainous and covered with loose rocks. Soil, rocky; 4th. rate. No timber. Undergrowth, paloverde, ironwood, greasewood and mesquite. Mountainous land and land covered with dense undergrowth and loose rocks, exceptionally difficult to survey 80.00 chs.
	—————
	North bet. secs. 7 and 12
13.50	Ascending over loose rocks through dense brush
15.00	Rim of mesa and over mesa.
23.00	Rim of mesa and descend.
40.00	Ascend. Set a malpais stone 18 x 10 x 6 ins. 12 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high; W. of cor. Pits impracticable.
50.00	Ridge bears N. E. and S. W. descend.
61.20	Cross wash 20 lks. wide course W. ascend.
78.50	Ridge bears E. and W. descend.
80.00	Set a granite stone 20 x 12 x 10 ins. 15 ins. in the ground for cor. of secs. 1, 6, 7 and 12, marked with 5 notches on S. and 1 notch on N. edges; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, mountainous and covered with loose rocks. Soil, rocky; 4th. rate. No timber. Undergrowth greasewood, paloverde and catclaw. Mountainous land and land covered with dense undergrowth and loose rocks, exceptionally difficult to survey 80.00 chs. May 20; At this cor. I set off $19^{\circ} 55\frac{1}{2}'$ N. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is $34^{\circ} 03\frac{1}{2}'$ N.
	—————
	North bet. secs. 1 and 6
	Descending N. slope over loose rocks, through dense brush
22.30	Cross wash 40 lks. wide course N. W.
37.20	Cross wash 50 lks. wide course S. W.
40.00	Set a malpais stone 20 x 12 x 4 ins. 15 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; from which A paloverde 4 ins. diam., bears S. $32^{\circ} 55' E.$ 46 lks. dist., marked $\frac{1}{4}$ S6BT. A paloverde 6 ins. diam., bears S. $5^{\circ} 44' W.$ 102 lks. dist., marked $\frac{1}{4}$ S1BT.
45.00	Cross drain 6 lks. wide course S. E.
58.92	Intersect Second Standard Parallel North 5.02 chs. W. of the standard cor. of Tps. 9 N. Rgs. 2 and 3 E. ,

East boundary of Tp. 8 N. Rg. 2 E.

Chains.

previously described, and set a malpais stone 24 x 10 x 10 ins. 18 ins. in the ground for closing cor. of Tps. 8 N, Rgs. 2 and 3 E., marked cc 18N on S. 3E. on E., and 2E on W. faces; with 6 grooves on S., E., and W. faces; and raise a mound of stone 2 ft. base 1 1/2 ft. high, S. of cor. Pits impracticable.

Land, mountainous, and covered with loose rocks.

Soil, rocky; 4th. rate.

No timber.

Undergrowth, Greasewood, paloverde, mesquite, catclaw and oak.

Mountainous land, and land covered with dense undergrowth and loose rocks, exceptionally difficult to survey

58.92 chs.

May 20, 1910.

East boundary of Tp. 8 N. Rg. 1 E. ✓

Chains.	May 21; At 7h. oom., a.m., l.m.t., I set off 33° 59' N. on the lat. arc; 20° 06' N. on the decl. arc; and determine a meridian with the solar at the cor. of Tps. 7 and 8 N. Rgs. 1 E., previously described.
	Thence I run
	North bet. secs. 31 and 36
6.12	Ascending over loose rocks through dense brush. The closing cor. of Tps. 7 and 8 N. Rgs. 2 E. previously described.
20.00	Ridge bears N. W. and S. E. descend.
29.92	Cross road bears N. W. and S. E.
31.75	Cross wash 25 lks. wide course S. E. ascend.
35.00	Ridge bears E. and W. descend.
40.00	Set a malpais stone 20 x 6 x 4 ins. 15 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
43.15	Cross wash 25 lks. wide course S. E. ascend.
53.00	Cross ridge bears S. E. and N. W. descend.
56.75	Cross wash 20 lks. wide course S. E. ascend.
65.00	Ridge bears E. and W. descend.
80.00	Set a malpais stone 18 x 10 x 8 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; from which A paloverde 5 ins. diam., bears S. 45 $\frac{1}{2}$ ° W. 25 lks. dist., marked T8NR1ES36BT. An ironwood 12 ins. diam., bears N. 58° W. 252 lks. dist., marked T8NR1ES25BT. No other bearings available. Raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, mountainous and covered with loose rocks. Soil, rocky; 4th. rate. No timber. Undergrowth, paloverde, mesquite and greasewood. Mountainous alnd and land covered with dense undergrowth and loose rocks, exceptionally difficult to survey 80.00 chs.

	North bet. secs. 25 and 30
	Descending over loose rocks, through dense brush
5.40	Cross wash 15 lks. wide course S. E. ascend.
13.00	Ridge bears E. and W. descend.
33.25	Cross wash 25 lks. wide course S. E. ascend.
40.00	Set a malpais stone 18 x 10 x 8 ins. 12 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
71.50	top of mesa bears E. and W. and over mesa.
80.00	Set a malpais stone 20 x 8 x 6 ins. 15 ins. in the ground for cor. of secs. 19, 24, 25 and 30, marked with 2 notches on S. and 4 notches on N. edges; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, mountainous and covered with loose rocks. Soil, rocky; 4th. rate. No timber. Undergrowth, greasewood, paloverde and mesquite. Mountainous alnd and land covered with dense undergrowth 80.00 chs.
	May 20: At this cor. I set off 20° 08' N. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is 34° 01' N. ✓

	North bet. secs. 19 and 24.
	Over mesa covered with loose rocks, through dense brush.

East boundary of Tp. 8 N. Rg. 1 E.

Chains.	
10.00	Cross wash 20 lks. wide course E.
18.50	Edge of mesa, hrs. E. and W.; descend.
39.70	Cross wash 25 lks. wide course E. ascend.
40.00	Set a malpais stone 20 x 10 x 8 ins. 15 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. pits impracticable.
45.13	Ridge bears E. and W. descend.
54.20	Cross wash 20 lks. wide course N. E. ascend.
63.00	Ridge bears E. and W. descend.
68.20	Cross wash 25 lks. wide course E. ascend.
78.00	Ridge bears E. and W. descend.
80.00	Set a malpais stone 20 x 8 x 8 ins. 15 ins. in the ground for cor. of secs. 13, 18, 19 and 24; marked with 3 notches on S. and N. edges; from which A paloverde 6 ins. diam., bears S. $64\frac{3}{4}^{\circ}$ W. 169 lks. dist., marked T8NR1ES34BT. No other bearings available. Raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, mountainous and covered with loose rocks. Soil, rocky: 4th. rate. No timber. Undergrowth, greasewood and paloverde. Mountainous land and land covered with dense undergrowth and loose rocks, exceptionally difficult to survey 80.00 chs.
	May 21, 1910
	May 22: At 7h. 00m., a.m., l.m.t., I set off $34^{\circ} 01\frac{1}{2}'$ N on the lat. arc; $20^{\circ} 18\frac{1}{2}'$ 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 . Descending over loose rocks, through dense brush.
18.75	Cross wash 25 lks. wide course N. E. ascend.
29.75	Ridge bears E. and W. descend.
40.00	Set a malpais stone 24 x 12 x 4 ins. 18 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; from which A paloverde 4 ins. diam., bears S. $19\frac{1}{2}^{\circ}$ E. 54 lks. dist., marked $\frac{1}{4}$ S18BT. A paloverde 4 ins. diam., bears S. 51° W. 68 lks. dist., marked $\frac{1}{4}$ S13BT.
40.15	Cross wash 10 lks. wide course E. ascend.
41.00	Road bears N. W. and S. E.
48.00	Ridge bears N. E. and S. W. descend.
54.00	Cross wash 10 lks. wide course E. ascend.
57.00	Ridge bears E. and W. descend.
59.50	Cross wash 25 lks. wide course S. E. ascend.
69.60	Ridge bears E. and W. descend.
72.70	Cross wash 20 lks. wide course S. E. ascend.
80.00	Mark a cross on a granite rock in place 24 x 20 x 18 ins. above ground for exact point for cor. of secs. 7, 12, 13 and 18, marked with 4 grooves on S. and 2 grooves on N. of cross; from which An ironwood 10 ins. diam., bears N. $40\frac{1}{2}^{\circ}$ E. 13 lks. dist., marked T8NR2ES7BT. An ironwood 10 ins. diam., bears S. 28° E. 68 lks. dist., marked T8NR2ES18BT. An ironwood 12 ins. diam., bears S. 70° W. 24 lks. dist., marked T8NR1ES13BT. A paloverde 4 ins. diam., bears N. 24° W. 88 lks. dist., marked T8NR1ES12BT. Land, mountainous and covered with loose rocks. Soil, rocky; 4th. rate. No timber.

East boundary of Tp. 8 N. Rg. 1 E.

Chains.	Undergrowth, paloverde, ironwood, and mesquite. Mountainous land and land covered with dense undergrowth and loose rocks, exceptionally difficult to survey 80.00 chs.
	—————
	North bet. secs. 7 and 12
8.00	Ascending over loose rocks, through dense brush.
38.30	Granite peak and along N. W. slope, descending.
40.000	Cross wash 25 lks. wide course E. ascend.
	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; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
47.50	Ridge bears E. and W. descend.
65.00	Cross wash 20 lks. wide course N. E. ascend.
67.00	Ridge bears E, and W. descend.
75.50	Cross wash 25 lks. wide course S. E. ascend.
79.00	Ridge bears E. and W. ; descend.
80.00	Mark a cross on a granite rock in place $3\frac{1}{2}$ x 3 x $2\frac{1}{2}$ ft. above ground for exact point for cor. of secs. 1, 6, 7 and 12, marked with 5 notches on S. and 1 notch on N. of cross; 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, paloverde, mesquite and catclaw.
	Mountainous alnd and land covered with dense undergrowth and loose rocks, exceptionally difficult to survey 80.00 chs.
	May 22: At this cor. I set off $20^{\circ} 20'$ N. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is $34^{\circ} 03\frac{1}{2}'$ N.
	—————
	North bet. secs. 1 and 6
24.50	Ascending over loose rocks, through dense brush.
40.00	Top rocky peak and descend along N. E. slope.
	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; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
53.50	Cross wash 25 lks. wide course E. ascend.
59.00	Ridge bears E. and W. descend.
65.40	Intersect Second Standard Parallel North 67 lks. E. of the standard cor. of Tps. 9 N. Rgs. 1 and 2 E. previously described, and mark a cross on a granite rock in place 5 x $2\frac{1}{2}$ x $1\frac{1}{2}$ ft. above ground for exact point for closing cor. of Tps. 8 N. Rgs. 1 and 2 E.; marked CC8N on S., 2E on E. and 1E on W. of cross, with 6 grooves on S., E. and W. of cross; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, S. of cor. Pits impracticable.
	Land, mountainous, and covered with loose rocks.
	Soil, rocky; 4th. rate.
	No timber.
	Undergrowth, Paloverde, mesquite, catclaw and oak.
	Mountainous land and land covered with dense undergrowth and loose rocks, exceptionally difficult to survey 65.40 chs.

May 22, 1910

East boundary of Tp. 8 N. Rg. 1 W.

*Boundaries of T. 8 N., R. 2 E.
Latitudes, departures, and closing errors.*

<i>Line Designated</i>	<i>True Bearing</i>	<i>Distance</i>	<i>Latitudes</i>		<i>Departures</i>	
			<i>N.</i>	<i>S.</i>	<i>E.</i>	<i>W.</i>
		<i>Chs.</i>	<i>Chs.</i>	<i>Chs.</i>	<i>Chs.</i>	<i>Chs.</i>
<i>Second Standard Parallel N.</i>	<i>West</i>	<i>474.31</i>				<i>474.31</i>
<i>W. bdy. T. 8 N., R. 2 E.</i>	<i>South</i>	<i>459.28</i>		<i>459.28</i>		
<i>S. bdy. T. 8 N., R. 2 E.</i>	<i>East</i>	<i>473.10</i>			<i>473.10</i>	
<i>E. bdy. T. 8 N., R. 2 E.</i>	<i>North</i>	<i>458.92</i>	<i>458.92</i>			
<i>Convergency</i>						<i>.49</i>
<i>Totals</i>			<i>458.92</i>	<i>459.28</i>	<i>473.10</i>	<i>474.80</i>
				<i>458.92</i>		<i>473.10</i>
<i>Error in lat.</i>				<i>.36</i>	<i>Error dep.</i>	<i>1.70</i>

GENERAL DESCRIPTION

Township 8 N. Rg. 2 E. is rough and mountainous. There is no timber in the township. The Agua Fria river runs through the western part of the township but has no water excepting in the rainy season.

Alfred W. Glass
U. S. Deputy Surveyor.

LIST OF NAMES.

A list of the names of the individuals employed by Alfred N. Oliver
 _____, 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 N. and E.
bdrys. of Tp. 6 N. Rg. 3 E., the N., E., and W. bdrys. of Tp. 7 N.
Rg. 3 E. and the E. and W. bdrys of Tp. 8 N. Rg. 3 E.
 showing the respective capacities in which they acted:

- Len Hall _____, *Chainman.*
A. E. Lyon _____, *Chainman.*
 _____, *Moundman.*
 _____, *Moundman.*
H. T. Hartwell _____, *Arman.*
 _____, *Arman.*
R. A. Coombs _____, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Alfred N. Oliver
 _____, United States Deputy Surveyor, in surveying all
 those parts or portions of the the N. and E. bdrys. of Tp. 6 N. Rg. 3 E. the N.,
E. and W. bdrys. of Tp. 7 N. Rg. 3 E. and the E. and W. bdrys. of
Tp. 8 N. Rg. 2 E.
 _____ of the Gila and
Salt River _____ meridian, Territory of Arizona _____, which are represented
 in the foregoing field notes as having been surveyed by him and under his direction; and that said survey
 has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the
 corner monuments established, according to the instructions furnished by the United States Surveyor
 General for Arizona.

- Len Hall _____, *Chainman.*
A. E. Lyon _____, *Chainman.*
 _____, *Moundman.*
 _____, *Moundman.*
H. T. Hartwell _____, *Arman.*
 _____, *Arman.*
R. A. Coombs _____, *Flagman.*

Subscribed and sworn to before me this 26th.
 day of May, 1910. _____, 189

Alfred N. Oliver

 U.S. Deputy Surveyor.



BOOK 2243

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Alfred N. Oliver, 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 5th day of January, 1910, 189, 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 Arizona, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the N. and E. bdrys. of Tp. 6 N. Rg. 2 E. the N. E. and W. bdrys. of Tp. 7 N. Rg. 2 E. and the E. and W. bdrys. of Tp. 8 N. Rg. 2 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; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Alfred N. Oliver
United States Deputy Surveyor.

Subscribed by said Alfred N. Oliver, and sworn to before me }
this 26th day of July, 1910

Frank S. Ingalls
U.S. Surveyor General



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix Ariz. July 11, 189 1911
The foregoing field notes of the survey of the North and East bdrys of Tp. 6 N. Rg. 2 E., the North, East and West bdrys. of Tp. 7 N. Rg. 2 E. and East and West bdrys. of Tp. 8 N. Rg. 2 E. Gila and Salt River Base and Meridian, Arizona

executed by Alfred N. Oliver, U.S. Deputy Surveyor, under his contract No. 161, dated January 5, 1910, 190, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Frank S. Ingalls
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in, has been correctly copied from the original notes on file in this office.

United States Surveyor General.