

APR 15 1910

Book C.
2209

Accepted Letter E.
Aug. 10 - 1911

FIELD NOTES

2209

OF THE SURVEY OF THE

2209

*Subdivision Lines of Twp. 8 N.
Rg. 5 W.*

2209

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

AS SURVEYED BY

John A. Hesse, United States Deputy Surveyor,

Under his Contract No. *158*, dated *June 4, 1909*, 189

Survey commenced *August 25, 1909*, 189

Survey completed *September 12, 1909*, 189

2209

2209

NAMES AND DUTIES OF ASSISTANTS.

BOOK 2209

Fred Kest

Chairman

Fred W. Rodolf

L. Kaufman

Secretary

J. H. DeLwaler

Stagman

BOOK 2209

INDEX DIAGRAM.

Township 8 N., Range 5 W.

6	34	5	25	4	20	3	14	2	8	1
33		33		25		19		13		7
7	32	8	24	9	19	10	13	11	7	12
32		31		24		18		12		6
18	31	17	23	16	18	15	12	14	6	13
30		30		23		17		11		4
19	29	20	22	21	17	22	11	23	4	24
29		28		22		16		10		3
30	28	29	21	28	15	27	9	26	2	25
27		26		21		15		9		2
31	26	32	20	33	15	34	8	35	1	36

Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

WE, Fred Kest and Fred W. Rodolf

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 subdivision lines of Tp. 8 N. Rg. 5 W.

Fred Kest, Chairman.
Fred W. Rodolf, Chairman.

Subscribed and sworn to before me this 12th day of August 1909, 189



John P. Hesse
U. S. Dep. 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, C. Kaufman and _____

do solemnly swear that we will well and truly perform the duties of axman 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 subdivision lines of Tp. 8 N. Rg. 5 W.

C. Kaufman, Axman.
_____, Axman.

Subscribed and sworn to before me this 12th day of August 1909, 189



John P. Hesse
U. S. Dep. Surveyor

I, P. W. Schwaln, 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 _____

survey of the subdivision lines of Tp. 8 N. Rg. 5 W.
P. W. Schwaln, Flagman.

Subscribed and sworn to before me this 12th day of August 1909, 189



John P. Hesse
U. S. Dep. Surveyor

No notary available without great expense and loss of time.

Subdivision of Tp. 8 N. Rg. 5 W.

Chains.

Survey commenced August 25, 1909 and executed with a Young and Sons light mountain transit No. 7532, with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

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

I examine the adjustments of the transit, and find them correct, then, to test the solar apparatus, by comparing its indications, resulting from solar observations made during a.m., and p.m., hours, with a meridian determined by observations on Polaris, I proceed as follows;

At the cor. of secs. 1, 2, 35 and 36 on the S. bdy. of the township, latitude $33^{\circ} 59' 08''$ N., longitude $112^{\circ} 44' 31''$ W.: I set off $33^{\circ} 59'$ N. on the lat. arc; $16^{\circ} 46'$ N. on the decl. arc; and, at 3h.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 my station.

At 9h. 17m. p.m., by my watch, which has correct l.m.t. I observe Polaris at eastern elongation, in accordance with manual of instructions, and mark a point in the line thus determined, on a peg driven in the ground, 5 chs. N. of my station.

August 25, 1909.

August 26; At 6h. 00m. 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 August 25, on which the meridian agrees with the mark determined by the solar.

At 7h. 00m. a.m., l.m.t., I set off $33^{\circ} 59'$ N. on the lat. arc; $10^{\circ} 33'$ 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 observations; 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. $14^{\circ} 30'$ E.

I commence at the cor. of secs. 1, 2, 35 and 36 on the S. bdy. of the Tp., which has been previously described.

Thence I run

North bet. secs. 35 and 36 on sectional correction line.

Over level land through dense brush

12.15

Cross fence bears E. and W.

12.48

Cross fence bears N. W. and S. E.

13.60

River bank bears N. W. and S. E.

14.88

Small stream of running water, course S. E. 60 lks. wide.

18.00

N. bank of Hassayampa River bears N. W. and S. E. and over level land through dense brush.

21.70

Cross old road bears N. W. and S. E.

23.30

Cross fence bears N. W. and S. E.

30.85

Cross fence bears E. and W. and across field.

40.00

Set a granite 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; dig pits 18 x 18 x 12 ins. N. and S. of stone 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high W. of cor.

Subdivision of Tp. 8 N. Rg. 5 W.

Chains.

48.70 Leave field and ascend steep S. slope through dense brush.
 49.60 Cross fence bears E. and W.
 50.00 Daniel's house bears W. 7.60 chs. dist.
 51.00 Ridge bears E. and W. and descend.
 55.00 Brush fence bears S. W. and N. E.
 57.00 Cross wash 25 lks. wide course S. E. and ascend.
 60.00 Robert's house bears S. 71° W. 38.00 chs. dist.
 74.50 Ridge bears N. E. and S. W. and descend.
 80.00 Set a granite stone 24 x 8 x 8 ins. 18 ins. in the ground for cor. of secs. 25, 26, 35 and 36, marked with 1 notch on S. and E. edges; and raise a mound of stone 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable. Land, mountainous and level. Soil, Stony and loamy and sandy; 1st. and 4th. rate. No timber. Undergrowth, mesquite, greasewood and paloverde. Mountainous land and land covered with dense brush 80.00 chs.

East on a random line bet. secs. 25 and 36

Ascending steep N. W. slope through dense brush.
 40.00 Set temp. ¼ sec. cor.
 80.06 Intersect E. bdy. of Tp. at the cor. of secs. 25, 30, 31, and 36.
 Thence I run

West on a true line bet. secs. 25 and 36.

Descending through dense brush.
 2.40 Cross drain 5 lks. wide course S. and ascend.
 7.00 Cross ridge bears N. W. and S. E. and descend.
 12.00 Cross power transmission line bears N. and S.
 15.40 Cross drain 5 lks. wide course S. W.
 20.25 Cross same drain course N. W.
 24.60 Cross same drain course S. W. and ascend.
 28.00 Cross ridge bears N. and S. and descend.
 32.00 Cross drain 5 lks. wide course N. W.
 35.00 Cross telephone line bears N. and S.
 38.25 Cross wash 10 lks. wide course S. W. and ascend.
 40.06 Set a granite stone 18 x 10 x 6 ins. 12 ins. in the ground for ¼ sec. cor., marked ¼ on N. face; from which
 A paloverde 6 ins. diam., bears N. 32° E. 65 lks. dist., marked ¼S25BT.
 A mesquite 6 ins. diam., bears S. 28° W. 114 lks. dist., marked ¼S36BT.

40.25 Ridge bears N. E. and S. W. and descend.
 45.00 Cross drain 5 lks. wide course S.
 54.15 Cross wash 25 lks. wide course S. W. and ascend.
 54.25 Cross road bears N. E. and S. W.
 61.15 Ridge bears N. and S. and descend.
 62.10 Cross drain 5 lks. wide course S. and ascend.
 65.50 Ridge bears N. and S. and descend.
 67.70 Cross wash 10 lks. wide course S. and ascend.
 72.50 Ridge bears N. E. and S. W. and descend.
 80.06 The cor. of secs. 25, 26, 35 and 36.
 Land, mountainous.
 Soil, rocky; 4th. rate.
 No timber.
 Undergrowth, paloverde, mesquite and greasewood.
 August 26; At this cor. I set off 10° 27½' N. on the decl. arc; and observe the sun on the meridian at noon the resulting lat. is 34° 00' N. ✓

North bmt. secs. 25 and 26 on sectional correction line
 Descend steep slope through dense underbrush.

Subdivision of Tp. 8 N. Rg. 5 W.

Chains.	
14.85	Cross wash 30 lks. wide course S. W. and ascend.
22.00	Ridge bears E. and W. and descend.
26.75	Cross wash 30 lks. wide course N. W. and ascend.
37.00	Cross telephone line bears S. W. and N. E. and over rolling broken land.
38.00	Cross drain 6 lks. wide course S. W.
40.00	Set a malpais stone 34 x 10 x 8 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. 84° E. 100 lks. dist., marked $\frac{1}{4}$ S25BT A paloverde 5 ins. diam., bears S. 59° W. 27 lks. dist., marked $\frac{1}{4}$ S26BT. From this cor. Lee's house bears N. 63 $\frac{1}{2}$ ° W. Robert's house bears S. 35 $\frac{1}{2}$ ° W.
40.20	Ridge bears E. and W. and descend.
42.80	Cross drain 5 lks. wide course W. and ascend.
44.20	Cross road bears E. and W. and descend.
55.80	Cross wash 30 lks. wide course S. W. and ascend.
56.75	Ridge bears E. and W. and descend.
66.25	Cross drain 5 lks. wide course W. and ascend.
71.25	Ridge bears N. W. and S. E. and descend.
76.50	Ascend steep slope.
78.75	Cross road bears E. and W.
80.00	Set a malpais stone 18 x 8 x 8 ins. 12 ins. in the ground for cor. of secs. 23, 24, 25, and 26, marked with 2 notches on S. and 1 notch on E. edges; and raise a mound of stone 2 ft. base 1 $\frac{1}{2}$ ft. high, W. of cor., Pits impracticable. Land, mountainous. Soil, stony; 4th. rate. No timber. Undergrowth, paloverde, mesquite and greasewood. Mountainous land and land covered with dense undergrowth 80.00 chs.
	August 26, 1909.
	—
	August 27; At 7h. 00m., a.m., l.m.t., I set off 34° 01' N. on the lat. arc; 10° 12' N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 23, 24, 25 and 26, Thence I run East on a random line bet. secs. 24, and 25.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.98	Intersect E. bdy. of Tp. 5 lks. S. of the cor. of secs. 19, 24, 25 and 30. Thence I run S. 89° 58' W. on a true line bet. secs. 24 and 25, Descend steep slope through dense brush.
2.80	Cross drain 5 lks. wide course S. W. and ascend.
4.00	Top N. end of ridge extends S. and descend.
7.60	Cross power transmission line bears N. and S.
9.00	Cross wash 25 lks. wide course S. W. and ascend.
16.35	Ridge bears N. E. and S. W.
21.40	Cross drain 5 lks. wide course S. and ascend.
24.25	Ridge bears N. and S. and descend.
25.85	Cross drain 5 lks. wide course S. and ascend.
26.55	Ridge bears N. and S. and descend.
26.80	Over level land.
30.90	Cross telephone line bears N. and S.
35.20	Cross road bears N. W. and S. E.
38.00	Ascend steep slope.
39.98	Set a malpais 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 4 ins. diam., bears N. 75° E. 38 lks. dist., marked $\frac{1}{4}$ S24BT.

Subdivision of Tp. 8 N. Rg. 5 W.

Chains	A paloverde 5 ins. diam., bears S. $43\frac{1}{2}^{\circ}$ W. 40 lks. dist., marked $\frac{1}{4}$ S25BT.
40.50	Cross ridge bears N. and S. and descend.
46.50	Cross wash 20 lks. wide course S. W. and ascend.
55.00	Ridge bears N. and S. and descend.
65.00	Cross telephone line bears N. and S.
72.00	Cross road bears N. E. and S. W.
73.00	Cross wash 40 lks. wide course S. W.
76.00	Cross road bears N. E. and S. W. and ascend steep S. E. slope.
79.98	The cor. of secs. 23, 24, 25 and 26. Land, mountainous. Soil, stony; 4th. rate. No timber. Undergrowth, mesquite, paloverde and greasewood. Mountainous land and land covered with dense undergrowth 79.98 chs.

	North bet. secs. 23 and 24. on sectional correction line. Ascend steep slope through dense brush.
2.00	Cross ridge bears E. and W. and descend.
3.40	Cross drain 5 lks. wide course E. and ascend.
27.00	Ridge bears N. E. and S. W. and descend.
30.70	Smith's house bears N. $33^{\circ} 40'$ W.
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 6 ins. diam., bears N. $72\frac{1}{4}^{\circ}$ E. 104 lks. dist., marked $\frac{1}{4}$ S24BT. A paloverde 4 ins. diam., bears S. $69\frac{1}{4}^{\circ}$ W. 140 lks. dist., marked $\frac{1}{4}$ S23BT.
44.00	Cross drain 5 lks. wide course W. and ascend.
44.60	Ridge bears E. and W. and descend.
46.00	Cross wash 25 lks. wide course S. W. and ascend.
50.00	Ridge bears E. and W. descend.
58.25	Cross wash 30 lks. wide course W. and ascend.
80.00	Set a granite stone 18 x 10 x 8 ins. 12 ins. in the ground for cor. of secs. 13, 14, 23 and 24, marked with 3 notches on S. and 1 notch on E. edges; from which A paloverde 6 ins. diam., bears N. 67° E. 58 lks. dist., marked T8NR5WS13BT. A paloverde 4 ins. diam., bears S. $8\frac{1}{2}^{\circ}$ E. 67 lks. dist., marked T8NR5WS24BT. A paloverde 6 ins. diam., bears S. 56° W. 142 lks. dist., marked T8NR5WS23BT. A paloverde 5 ins. diam., bears N. $34\frac{1}{2}^{\circ}$ W. 54 lks. dist., marked T8NR5WS14BT Land, mountainous. Soil, rocky; 4th. rate. No timber. Undergrowth, paloverde, mesquite and greasewood. Mountainous land and land covered with dense undergrowth 80.00 chs. August 27; At this cor. I set off $10^{\circ} 06\frac{1}{2}'$ N. on the decl. arc; and observe the sun on the meridian at noon the resulting lat. is $34^{\circ} 01\frac{1}{2}'$ N.

40.00	N. $89^{\circ} 58'$ E. on a random line bet. secs. 13 and 24. Set temp. $\frac{1}{4}$ sec. cor.
79.92	Intersect E. bdy. of Tp. 7 lks. S. of the cor. of secs. 13, 18, 19 and 24. Thence I run S. $89^{\circ} 55'$ W. on a true line bet. secs. 13 and 24. Ascending through dense underbrush.
1.00	Descend.
1.30	A point from which

Subdivision of Tp. 8 N., Rg. 5 W.

Chains	Water tank bears N. 52° 30' W. Watchmans house bears S. 75° 50' W. Barn bears S. 71° W. House bears S. 65° 30' W. Office bears S. 62° 30' W. Stamp mill bears S. 60° 30' W. Boarding house bears S. 52° 30' W. Bunk house bears S. 45° W. Club house bears S. 45° 30' W. Building bears S. 46° W. Building bears S. 46½° W. all belonging to the Ore Grande Mine.
2.37	Power transmission line bears N. and S.
5.47	Intersect N. end line of the Alma claim, Sur. 1587A at S. 56° E. 1.76 chs. from cor. No. 4 of Alma.
7.50	Cross drain 5 lks. wide course S.
7.58	Intersect line bet. Alma and Copperhead claims, Sur. 1587A, at S. 34° W. 118 lks. from cor. No. 4 of Alma.
10.17	Intersect E. side line of Nigger Ben claim, Sur. 1587A at N. 13° 40' E. 3.50 chs. from cor. No. 1 of Nigger Ben.
11.00	Cross trail bears N. E. and S. W.
12.34	Cross telephone line bears N. and S.
13.32	Cross road bears N. and S.
14.00	Cross wash 10 lks. wide course S. and ascend.
18.54	Intersect W. side line of Copperhead claim, Sur. 1587A at S. 34° W. 7.32 chs. from the N. W. cor. of claim.
19.33	A point from which Water tank bears N. 44° E. Watchman's house bears S. 65° 50' E. Barn bears S. 9° W. House bears S. 36¼° E. Office bears S. 39° E. Stamp mill bears S. 1½° W. Boarding house bears S. 24½° E. Bunk house bears S. 11° 50' E. Club house bears S. 1½° W. Building bears S. 8¼° W. Building bears S. 14° W. Shaft house bears S. 10° 15' E. all belonging to the Ore Grande Mine.
19.19	Intersect W. side line of Nigger ben claim, Sur. 1587A at N. 13° 40' E. 1.37 chs. from cor. No. 4 of claim.
22.22	Intersect N. end line of Oro Grande claim, Sur. No. 1587A, at S. 36° E. 3.325 chs. from cor. No. 4 of claim.
24.20	Ridge bears N. and S. and descend. Shaft house bears S. 40½° E.
26.54	Intersect E. side line of Colossal claim, Sur. No. 1587A, at S. 42° W. 7.26 chs. from cor. No. 1 of claim.
28.10	Intersect W. side line of Oro Grande claim, Sur. No. 1587A, at S. 56° W. 4.81 chs. from cor. No. 4 of claim.
29.80	Cross old road bears N. and S.
30.70	Cross telephone line bears N. and S.
34.50	Along N. slope of ridge.
38.87	Intersect W. side line of Colossal claim, Sur. 1587A, at N. 42° E. 7.27 chs. from cor. No. 3 of claim.
39.92	Set a granite stone 18 x 8 x 5 ins. 12 ins. in the ground for ¼ sec. cor., marked ¼ on N. face; and raise a mound of stone 2 ft. base 1½ ft. high N. of cor. Pits impracticable.
50.00	Shaft bears N. 2.25 chs.
63.50	Ridge bears N. W. and S. E. and descend.
76.00	Cross wash 25 lks. wide course S. and ascend.
79.92	Ridge bears N. and S. and descend. The cor. of secs. 13, 14, 23 and 24. Land, mountainous. Soil, rocky; 4th. rate. No timber. Undergrowth, paloverde, greasewood and mesquite. Land covered with dense undergrowth and mountainous

123

Subdivision of Tp. 8 N. Rg. 5 W.

Chains. land 79.92 chs.

August 27, 1909.

August 28; At 7h. oom., a.m., l.m.t., I set off $34^{\circ} 01\frac{1}{2}'$ N. on the lat. arc; $9^{\circ} 51'$ N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 13, 14, 23 and 24.

Thence I run
 North bet. secs. 13 and 14 on sectional correction line.
 Descend along N. W. slope, through dense brush.

11.50 Cross drain 5 lks. wide course W.
 17.00 Along E. edge of flat in river bottom.
 30.00 Ascend along W. slope.
 40.00 Drain 5 lks. wide course W.
 40.50 Set a granite stone 20 x 8 x 5 ins. 15 ins. in the ground for witness $\frac{1}{4}$ sec. cor., marked W C $\frac{1}{4}$ on W. face; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor., pits impracticable.

43.00 Cross wash 30 lks. wide course W.
 54.00 Cross drain 5 lks. wide course W.
 58.50 Descend along W. slope.
 62.00 High hill bears E. 30.00 chs.
 75.00 Across river bottom.
 80.00 Point for cor. falls in Hassayampa River, running water 60 lks. wide 10 ins. deep, course S. W. so at
 86.00 Set a granite stone 18 x 8 x 6 ins. 12 ins. in the ground for witness cor. to cor. of secs. 11, 12, 13 and 14, marked W C on N. E. face; with 4 notches on S. and 1 notch on E. edges; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor., pits impracticable.
 Land, mountainous.
 Soil, rocky and sandy; 4th. rate.
 No timber.
 undergrowth, paloverde, greasewood and mesquite.
 Mountainous land and land covered with dense undergrowth
 80.00 chs.

From true point for cor. of secs. 11, 12, 13 & 14, I run
 N. $89^{\circ} 55'$ E. on a random line bet. secs. 12 and 13 .

40.00 Set temp. $\frac{1}{4}$ sec. cor.,
 80.10 Intersect E. bdy. of Tp. 28 lks. N. of the cor. of secs. 7, 12, 13 and 18..
 Thence I run
 W. $89^{\circ} 53'$ W. on a true line bet. secs. 12 and 13.
 Descend steep slope through dense brush

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

39.40 Cross telephone line bears N. and S. over level land.
 40.10 Point for $\frac{1}{4}$ sec. cor. falls on land subject to overflow.
 43.00 Running water 60 lks. wide 10 ins. deep, course S. W.
 50.00 Cross stream of water, 60 lks. wide 10 ins. deep, course N. W.
 53.00 High hill bears S. 28.00 chs. dist.
 65.00 Cross stream of water 75 lks. wide 10 ins. deep, course S.
 68.00 Cross road bears N. E. and S. W.
 80.10 Point for cor. of secs. 11, 12, 13 and 14.
 Land, mountainous and level.
 Soil, stony and sand; 4th. rate.
 No timber.
 Undergrowth, Mesquite, paloverde, greasewood and aldess.
 Mountainous land and land covered with dense undergrowth
 80.10 chs.
 August 28; At this cor. I set off $9^{\circ} 45\frac{1}{2}'$ N. on the

Subdivision of Tp. 8 N. Rg. 5 W.

Chains.	decl. arc; and observe the sun on the meridian at noon the resulting lat. is $34^{\circ} 03\frac{1}{2}'$ N.
	From true point for cor. of secs. 11, 12, 13 & 14, I run North bet. secs. 11 and 12 on sectional corr. line.
	Across river bottom.
5.00	Ascend steep slope through dense brush.
6.00	Witness cor. to cor. of secs. 11, 12, 13 and 14, previously described.
13.30	Cross drain 5 lks. wide course E.
23.00	Ridge bears E. and W. and descend.
24.65	Cross drain 5 lks. wide course E. and ascend.
28.40	Ridge bears E. and W. and descend.
35.40	Cross drain 5 lks. wide course E. and ascend.
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; and raise a mound of stone 3 ft. base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
44.00	Ridge bears N. W. and S. E. and descend.
47.70	Cross drain 5 lks. wide course E.
58.20	Cross drain 5 lks. wide course E. and ascend.
65.10	Cross wash 20 lks. wide course S. E. and along toe of W. slope. High hill bears E. 22 chs.
75.00	Cross drain 5 lks. wide course S. W. and ascend.
80.00	Set a malpais stone 18 x 14 x 11 ins. 12 ins. in the ground for cor. of secs. 1, 2, 11 and 12, marked with 5 notches on S. and 1 notch on E. edges; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
	Land, mountainous and level.
	Soil, rocky and sandy; 4th. rate.
	No timber.
	Undergrowth, mesquite, paloverde and greasewood.
	Mountainous land and land covered with dense undergrowth
	80.00 chs.
	August 28, 1909.

	August 29; At 7h. 00m., a.m., l.m.t., I set off $34^{\circ} 03\frac{1}{2}'$ N. on the lat. arc; $9^{\circ} 30'$ N. on the decl. arc: and determine a meridian with the solar at the cor. of secs. 1, 2, 11 and 12.
	Thence I run
	S. $89^{\circ} 53'$ E. on a random line bet. secs. 1 and 12.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.80	Intersect E. bdy. of Tp. 12 lks. N. of the cor. of secs. 1, 6, 7 and 12.
	Thence I run
	N. $89^{\circ} 48'$ W. on a true line bet. secs. 1 and 12.
	Descending through dense brush
3.80	Cross wash 25 lks. wide course S. and ascend.
9.00	Ridge bears N. W. and S. E. and descend.
20.30	Cross wash 75 lks. wide course S. W. and ascend.
26.00	Ridge bears N. W. and S. E. and descend.
34.40	Cross wash 40 lks. wide course S. E. and ascend.
35.75	Cross wash 50 lks. wide course S. E.
39.80	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; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
41.58	Ridge bears N. W. and S. E. and descend.
46.20	Cross wash 40 lks. wide course S. and over broken land.
46.98	Cross telephone line bears N. and S.
56.00	Cross wash 50 lks. wide course S. E. and ascend.

125

Subdivision of Tp. 8 N. Rg. 5 W.

Chains.

74.00 Drain 5 lks. wide course S. W. ascend S. E. slope.
 79.80 The cor. of secs. 1, 2, 11 and 12.
 Land, mountainous.
 Soil, rocky; 4th. rate.
 No timber.
 Undergrowth, mesquite, paloverde and greasewood.
 Mountainous land and land covered with dense undergrowth
 79.80 chs.

North bet. secs. 1 and 2. on sectional correction line.
 Ascend steep slope through dense brush.
 3.00 Ridge bears E. and W. and descend.
 15.00 Cross wash 30 lks. wide course S. E. and ascend.
 16.35 Ridge bears E. and W. and descend.
 19.40 Cross drain 5 lks. wide course S. E.
 40.00 Set a malpais stone 18 x 12 x 8 ins. 12 ins. in the
 ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; from which
 A paloverde 5 ins. diam., bears N. $86\frac{1}{4}^{\circ}$ E. 45
 lks. dist., marked $\frac{1}{4}$ S1BT.
 A paloverde 6 ins. diam., bears N. 54° W. 47
 lks. dist., marked $\frac{1}{4}$ S2BT.

48.00 Cross wash in bend 25 lks. wide course S. E. bears N. E
 and ascend.

63.45 Cross drain 5 lks. wide course S. E.
 72.70 Intersect 2nd. Standard Parallel N. 1.90 lks. N. $89^{\circ} 34'$
 W. of the standard cor. of secs. 35 and 36 and set a
 malpais stone 18 x 10 x 8 ins. 12 ins. in the ground for
 closing cor. of secs. 1 and 2, marked C C on S., with 1
 groove on E. and 5 grooves on W. faces: from which
 A paloverde 5 ins. diam., bears S. $33\frac{1}{2}^{\circ}$ E. 120
 lks. dist., marked CCT8NR5WS1BT.
 A paloverde 5 ins. diam., bears S. $17\frac{1}{2}^{\circ}$ W. 88
 lks. dist., marked CCT8NR5WS2BT.

Land, mountainous.
 Soil, stony; 4th. rate.
 No timber.
 Undergrowth, paloverde, mesquite, and greasewood.
 Mountainous land, and land covered with dense undergrowth
 72.70 chs.
 August 29: At this cor. I set off $9^{\circ} 24'$ N. on the decl.
 arc; and observe the sun on the meridian at noon, the
 resulting lat. is $34^{\circ} 04\frac{1}{2}'$ N.

August 29, 1909.

August 30: At 7h. 00m., a.m., l.m.t., I set off $33^{\circ} 59' N.$
 on the lat. arc: $9^{\circ} 08\frac{1}{2}' N.$ on the decl. arc; and deter-
 mine a meridian with the solar at the cor. of secs. 2,
 3, 34 and 35 on the S. bdy. of the Tp.

Thence I run
 N. $0^{\circ} 01'$ W. bet. secs. 34 and 35.
 Ascend steep slope through dense brush
 1.10 Ridge bears E. and W. and descend.
 5.80 Cross wash 10 lks. wide course E.
 14.00 Ridge bears E. and W. and descend.
 25.65 Cross wash 35 lks. wide course S. E. and ascend.
 27.85 Cross road bears E. and W.
 35.00 Ridge bears N. W. and S. E. and descend.
 38.35 Cross wash 10 lks. wide course S. E. and over level land.
 40.00 Set a granite stone 18 x 12 x 6 ins. 12 ins. in the
 ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; dig pits
 18 x 18 x 12 ins. N. and S. of stone 3 ft. dist., and
 raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of
 cor.

43.00 Cross wash 20 lks. wide course S. E. and ascend.

Subdivision of Tp. 8 N. Rg. 5 W.

Chains.	
53.00	Cross ridge bears E. and W. and descend.
66.00	Cross drain 5 lks. wide course E. ascend,
67.00	Ridge bears E. and W. descend.
70.40	Cross wash 25 lks. wide course S. E. ascend.
73.60	Ridge bears N. W. and S. E. descend.
79.25	Cross wash 40 lks. wide course S. E. over level land.
80.00	Set a granite stone 24 x 6 x 5 ins. 18 ins. in the ground for cor. of secs. 26, 27, 34 and 35, marked with 1 notch on S. and 2 notches on E. edges; from which A mesquite 6 ins. diam., bears N. $52\frac{1}{2}^{\circ}$ E. 141 lks. dist., marked T8NR5WS26BT. A mesquite 5 ins. diam., bears S. $46\frac{1}{2}^{\circ}$ E. 118 lks. dist., marked T8NR5WS35BT. A mesquite 5 ins. diam., bears S. $48\frac{1}{2}^{\circ}$ W. 127 lks. dist., marked T8NR5WS34BT. A mesquite 5 ins. diam., bears N. $11\frac{1}{4}^{\circ}$ W. 136 lks. dist., marked T8NR5WS27BT.
	Land, mountainous. Soil, stony; 4th. rate. No timber. Undergrowth, mesquite, paloverde and greasewood. Mountainous land and land covered with dense undergrowth 80.00 chs.
	—————
40.00	S. $89^{\circ} 58'$ E. on a random line bet. secs. 26 and 35 Set temp. $\frac{1}{4}$ sec. cor.
80.02	Intersect N. and S. line 7 lks. S. of the cor. of secs. 25, 26, 35, and 36. Thence I run S. $89^{\circ} 59'$ W. on a true line bet. secs. 26 and 35. Descend steep slope through dense brush.
23.50	Cross wash 10 lks. wide course S. W.
27.01.	Set a granite stone 18 x 14 x 6 ins. 12 ins. in the ground for witness cor. to $\frac{1}{4}$ sec. cor., marked W.C $\frac{1}{4}$ on N. face; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high N. of cor. Pits impracticable.
27.90	Cross irrigating ditch 4 lks. wide course S. and over level land.
28.20	E. bank of Hassayampa River.
33.10	Running stream 50 lks. wide 10 ins. deep course S.
39.00	W. bank of river, and over land subject to overflow.
40.01	Point for $\frac{1}{4}$ sec. cor. falls on land subject to overflow.
42.40	Road bears N. W. and S. E. and over level land.
44.00	Cross road bears N. E. and S. W.
64.75	Cross road bears N. W. and S. E.
73.00	Cross wash 40 lks. wide course N. E.
80.02	The cor. of secs. 26, 27, 34 and 35. Land, mountainous, and level. Soil, loamy and rocky and sandy; 1st. and 4th. rate. No timber. Undergrowth, mesquite, paloverde and greasewood. Mountainous land and land covered with dense undergrowth 80.02 chs. August 30: At this cor. I set off $9^{\circ} 02\frac{1}{2}'$ N. on the decl. arc: and observe the sun on the meridian at noon, the resulting lat. is $34^{\circ} 00'$ N.
	—————
11.90	N. $0^{\circ} 01'$ W. bet. secs. 26 and 27. Over level land through dense brush.
20.00	Cross road bears E. and W.
26.60	Cross road bears N. W. and S. E.
34.00	Cross Martinez Wash 300 lks. wide course S. E. and ascend
35.60	Ridge bears N. W. and S. E. and descend. Cross drain 5 lks. wide course E. and ascend.

Subdivision of Tp. 8 N. Rg. 5 W.

Chains	
40.00	Set a malpais stone 24 x 9 x 7 ins. 18 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 S. $62\frac{1}{4}^{\circ}$ E. 87 lks. dist., marked $\frac{1}{4}$ S26BT A paloverde 4 ins. diam., bears S. $38\frac{1}{2}^{\circ}$ W. 43 lks. dist., marked $\frac{1}{4}$ S27BT. This cor. is on top of ridge bears E. and W.
53.30	Descend.
55.65	Cross wash 20 lks. wide course E. and ascend.
59.00	Cross ridge bears E. and W. and descend.
62.00	Cross wash 25 lks. wide course E. and ascend.
67.00	Ridge bears E. and W. and descend.
70.60	Cross drain 5 lks. wide course E. and ascend.
71.45	Ridge bears E. and W. descend.
75.50	Cross wash 25 lks. wide course S. E. ascend.
80.00	Set a malpais stone 20 x 9 x 6 ins. 15 ins. in the ground for cor. of secs. 22, 23, 26 and 27, marked with 2 notches on S. and E. edges; 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, sandy and stony; 1st. and 4th. rate. No timber. Undergrowth, mesquite, paloverde and greasewood. Mountainous land and land covered with dense undergrowth 80.00 chs.
	<hr/>
40.00	N. $89^{\circ} 59'$ E. on a random line bet. secs. 23 and 26 Set temp. $\frac{1}{4}$ sec. cor.
79.98	Intersect N. and S. line 7 lks. N. of the cor. of secs. 23, 24, 25 and 26. Thence I run N. $89^{\circ} 58'$ W. on a true line bet. secs. 23 and 26. Descending steep S. W. slope through dense brush.
3.50	Ascend steep S. E. slope.
11.00	Cross ridge bears N. and S. and descend.
15.50	Cross wash 25 lks. wide course S. W. and ascend.
22.00	Ridge bears N. and S. and descend.
25.00	Drain 5 lks. wide course S. W. ascend.
26.75	Ridge bears N. E. and S. W. and descend. Lee's house bears S. 16° E.
28.15	Over over rolling land.
28.25	Cross road bears N. and S.
28.85	Cross fence bears N. E. and S. W. and across S. end of field. Leave brush.
31.85	Cross wire fence bears N. W. and S. E. and through dense brush.
39.99	Set a granite stone 18 x 8 x 6 ins. 12 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable
47.00	E. bank of Hassayampa river.
55.00	Cross running stream 50 lks. wide 10 ins. deep, course S.
63.00	W. bank of Hassayampa River. Ascend steep slope
69.00	Ridge bears N. W. and S. E. and descend.
71.00	Cross drain 5 lks. wide course S. E. and ascend.
79.98	The cor. of secs. 22, 23, 26 and 27. Land, mountainous and level. Soil, rocky; sandy, and loamy; 1st. and 4th. rate. No timber. Underbrush, mesquite, greasewood, paloverde and alders. Mountainous land and land covered with dense undergrowth 79.98 chs.

August 30, 1909.

Subdivision of Tp. 8 N Rg. 5 W.

Chains.	August 31: At 7h. 00m., a.m., l.m.t., I set off 34° 01' N. on the lat. arc: 8° 47' N. on the decl. arc: and determine a meridian with the solar at the cor. of secs. 22, 23, 26 and 27
	Thence I run
	N. 0° 01' W. bet. secs. 22 and 23.
	Ascending through dense brush.
2.00	Ridge bears E. and W. and descend.
7.00	Cross drain 5 lks. wide course E. and ascend.
10.00	Ridge bears E. and W. and descend.
21.50	Cross wash 50 lks. wide course S. E. and ascend.
29.00	Ridge bears N. W. and S. E. and descend.
34.75	Cross wash 25 lks. wide course E. and ascend.
40.00	Set a quartzite 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 S. 39 $\frac{1}{2}$ ° E. 18 lks. dist., marked $\frac{1}{4}$ S23BT
	A paloverde 10 ins. diam., bears N. 54° W. 99 lks. dist., marked $\frac{1}{4}$ S22BT.
41.00	Ridge bears N. W. and S. E. and descend.
48.00	Cross wash 8 lks. wide course E. and ascend.
51.00	Ridge bears E. and W. and descend.
56.00	Cross drain 5 lks. wide course E. and ascend.
63.50	Ridge bears N. W. and S. E. and descend.
67.30	Cross drain 5 lks. wide course E. and Ascend.
69.80	Ridge bears E. and W. and descend.
74.00	Cross drain 5 lks. wide course E.
76.00	Cross drain 5 lks. wide course E.
79.00	Ridge bears E. and W. and descend.
80.00	Point for cor. falls in wash 20 lks. wide course S. E.
82.25	Set a malpais stone 18 x 10 x 8 ins. 12 ins. in the ground for witness cor. to cor. of secs. 14, 15, 22 and 23, marked W C. on N. E. face; with 3 notches on S. and 2 notches on E. edges; and raise a mound of stone 2 ft. base 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
	Land, mountainous.
	Soil, stony and gravelly; 2nd. and 3rd. rate.
	Timber, paloverde.
	Undergrowth, mesquite, greasewood and paloverde.
	Mountainous land and land covered with dense undergrowth
	80.00 chs.
	<hr/>
	S. 89° 58' E. on a random line bet. secs. 14 and 23.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.04	Intersect N. and S. lines 2 lks. N. of the cor. of secs. 13, 14, 23 and 24.
	Thence I run
	N. 89° 57' W. on a true line bet. secs. 14 and 23.
	Descending through dense brush
23.00	House bears N. 20° 30' E.
23.50	Descend into river.
25.70	Across dry bed of Hassayampa river.
28.35	Cross road bears N. and S.
29.50	Cross running stream 50 lks. wide 8 ins. deep course S.
44.00	Cross fence bears N. E. and S. W.
45.00	Leave River. Ascend.
47.02	Set a granite stone 18 x 8 x 6 ins. 12 ins. in the ground for witness cor. to $\frac{1}{4}$ sec. cor., marked WC $\frac{1}{4}$ on N. face; and raise a mound of stone 2 ft. base 1 $\frac{1}{2}$ ft. high N. of cor. Pits impracticable.
50.00	Ridge bears N. and S. and descend.
60.00	Cross wash 20 lks. wide course S. E. and ascend.
77.00	Ridge bears N. and S. and descend.
80.04	The true point for cor. of secs. 14, 15, 22 and 23.
	Land, mountainous and level.
	Soil, Sandy and rocky; 4th. rate.
	Timber, paloverde.
	Undergrowth, mesquite, greasewood and paloverde.

Subdivision of Tp. 8 N. Rg. 5 W.

Chains	Mountainous land and land covered with dense undergrowth 80.04 chs. August 31; At this cor. I set off $8^{\circ} 41'$ N. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is $34^{\circ} 01\frac{1}{2}'$ N.

	N. $0^{\circ} 01'$ W. bet. secs. 14 and 15 From true point for cor. Ascending through dense brush.
2.25	Witness cor. to cor. of secs. 14, 15, 22 and 23, pre- viously described.
13.00	Cross drain 5 lks. wide course E.
18.80	Cross wash 20 lks. wide course S. E.
28.00	Cross drain 5 lks. wide course N. E.
30.60	Cross wash 25 lks. wide course E. ascend.
34.75	Cross ridge bears E. and W. and descend.
36.00	Cross drain 5 lks. wide course N. E.
37.00	Cross drain 5 lks. wide course S. E. and ascend.
40.00	Set a granite 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; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
40.50	Ridge bears E. and W. and descend.
43.00	Cross drain 5 lks. wide course E ascend.
44.00	Ridge bears E. and W. descend.
45.00	Drain 5 lks. wide course E. ascend.
51.00	Ridge bears E. and W. descend.
52.50	Cross drain 5 lks. wide course E. ascend.
53.50	Ridge bears E. and W. descend.
54.50	Drain 5 lks. wide course E. ascend.
72.25	Cross drain 5 lks. wide course E.
77.00	Cross ridge bears E. and W. descend.
80.00	Set a malpais stone 18 x 14 x 10 ins. 12 ins. in the ground for cor. of secs. 10, 11, 14 and 15, marked with 4 notches on S. and 2 notches on E. edges; from which A paloverde 7 ins. diam., bears S. $25\frac{1}{4}^{\circ}$ W. 50 lks. dist., marked T8NR5WS15BT. A paloverde 5 ins. diam., bears N. $2\frac{1}{2}^{\circ}$ E. 38 lks. dist., marked T8NR5WS11BT. No other trees available. Raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, Hilly. Soil, Stony and gravelly; 3rd. and 4th. rate. Timber, paloverde. Undergrowth, paloverde, mesquite and greasewood. Land covered with dense undergrowth, 80.00 chs.

40.00	S. $89^{\circ} 57'$ E. on a random line bet. secs. 11 and 14. Set temp. $\frac{1}{4}$ sec. cor.
79.96	Intersect N. and S. line 9 lks. S. of true point for cor. of secs. 11, 12, 13 and 14. Thence I run S. $89^{\circ} 59'$ W. on a true line bet. secs. 11 and 14 from true point for cor. Across river bottom.
4.00	Ascend steep slope.
7.00	Set a granite stone 18 x 8 x 8 ins. 12 ins. in the ground for witness cor. to cor. of secs. 11, 12, 13 and 14, marked WC on N. E. face; with 4 notches on S. and 1 notch on E. edges; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. pits impracticable.
10.00	Cross drain 5 lks. wide course S.
13.00	Ridge bears N. and S. and descend.
17.00	Cross wash 50 lks. wide course S. E. and ascend.
28.00	Cross drain 5 lks. wide course S.
31.00	Ridge bears N. and S. and descend.
33.00	Cross wash 30 lks. wide course S. E. ascend.

Subdivision of Tp. 8 N. Rg. 5 W.

Chains.
38.50 Cross drain 5 lks. wide course N. E.
39.98 Set a malpais stone 18 x 9 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 6 ins. diam., bears N. $24\frac{1}{2}^\circ$ E. 89 lks. dist. marked $\frac{1}{4}$ S11BT.
A paloverde 9 ins. diam., bears S. $33\frac{1}{2}^\circ$ W. 37 lks. dist., marked $\frac{1}{4}$ S14BT.
44.00 Cross ridge bears N. W. and S. E. and descend.
50.00 Cross wash 30 lks. wide course S. E. ascend.
56.50 Cross drain 5 lks. wide course N. E.
63.00 Ridge bears N. W. and S. E. descend.
72.25 Cross drain 5 lks. wide course S. E. ascend.
79.96 The cor. of secs. 10, 11, 14 and 15.
Land, mountainous.
Soil, stony and gravelly; 3rd. and 4th. rate.
Timber, paloverde.
Undergrowth, paloverde, mesquite and greasewood.
Mountainous land and land covered with dense undergrowth
79.96 chs.

August 31, 1909.

September 1: At 7h. oom., a.m., l.m.t., I set off 34° $02\frac{1}{2}'$ N. on the lat. arc: $8^\circ 25'$ N on the decl. arc: and determine a meridian with the solar at the cor. of secs. 10, 11, 14 and 15.

Thence I run

N. $0^\circ 01'$ W. bet. secs. 10 and 11
Descend steep slope through dense brush
2.80 Cross drain 5 lks. wide course E. ascend.
7.00 Ridge bears E. and W. descend.
14.00 Cross wash 30 lks. wide course E. ascend.
21.00 Ridge bears E. and W. and descend along N. E. slope.
24.00 Ascend S. E. slope.
29.00 Ridge bears N. E. and S. W. and descend.
40.00 Set a malpais stone 18 x 10 x 10 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 S. $88\frac{1}{2}^\circ$ E. 59 lks. dist., marked $\frac{1}{4}$ S11BT
A paloverde 5 ins. diam., bears S. 58° W. 35 lks. dist., marked $\frac{1}{4}$ S10BT.
42.50 Cross drain 5 lks. wide course S. W. and ascend.
49.00 Along W. slope of ridge.
63.40 Cross drain 5 lks. wide course W.
76.40 Cross drain 5 lks. wide course W.
80.00 Set a granite stone 20 x 10 x 10 ins. 15 ins. in the ground for cor. of secs. 2, 3, 10 and 11, marked with 5 notches on S. and 2 notches on E. edges; from which
A paloverde 6 ins. diam., bears N. 60° E. 131 lks. dist., marked T8NR5WS2BT.
A paloverde 5 ins. diam., bears S. 23° E. 29 lks. dist., marked T8NR5WS11BT
A paloverde 5 ins. diam., bears S. 72° W. 133 lks. dist., marked T8NR5WS10BT
A paloverde 5 ins. diam., bears N. $22\frac{1}{4}^\circ$ W. 30 lks. dist., marked T8NR5WS3BT.
Land, mountainous.
Soil, stony and gravelly; 2nd. and 3rd. rate.
Timber, paloverde.
Undergrowth, mesquite, paloverde and greasewood.
Mountainous land and land covered with dense undergrowth
80.00 chs.

N. $89^\circ 59'$ E. on a random line bet. secs. 2 and 11
40.00 Set temp. $\frac{1}{4}$ sec. cor.

Subdivision of Tp. 8 N., Rg. 5 W.

Chains	
80.04	Intersect N. and S. line 16 lks. N. of the cor. of secs. 1, 2, 11 and 12. Thence I run N. $89^{\circ} 54'$ W. on a true line bet. secs. 2 and 11 Along S. slope, through dense brush.
11.50	Descend into wash.
18.00	Cross wash 10 lks. wide course S. and ascend.
31.30	Cross ridge bears N. W. and S. E.
33.50	Cross drain 5 lks. wide course S. E. ascend.
35.15	Top of granite knoll.
40.02	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; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
40.50	Ascend along N. E. slope.
71.00	Ridge bears N. and S. and descend.
80.04	The cor. of secs. 2, 3, 10 and 11. Land, hilly. Soil, rocky and gravelly; 2nd. and 4th. rate. No timber. Undergrowth, mesquite, greasewood and paloverde. September 1; At this cor. I set off $8^{\circ} 19\frac{1}{2}'$ 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.
	<hr/>
	N. $0^{\circ} 17'$ W. bet. secs. 2 and 3. Descending through dense brush.
2.00	Cross drain 5 lks. wide course S. W.
5.00	Ridge bears E. and W. ascend.
8.70	Cross drain 5 lks. wide course N. E.
11.90	Cross drain 5 lks. wide course E. ascend.
18.00	Ridge bears E. and W. descend.
22.50	Cross drain 6 lks. wide course E.
28.25	Cross drain 5 lks. wide course E. ascend.
33.00	Ridge bears E. and W. descend.
38.50	Cross drain 5 lks. wide course E. and ascend. S. E. slope.
40.00	Set a granite 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 6 ins. diam., bears S. 13° E. 123 lks. dist., marked $\frac{1}{4}$ S2BT. A paloverde 5 ins. diam., bears S. $3\frac{3}{4}^{\circ}$ W. 49 lks. dist., marked $\frac{1}{4}$ S3BT.
44.00	Descend N. E. slope.
49.00	Cross drain 5 lks. wide course S. E. ascend.
50.60	Cross old road bears N. W. and S. E.
60.00	Ridge bears E. and W. descend.
68.00	Cross wash 30 lks. wide course N. W. ascend.
72.66	Intersect 2nd. Standard Parallel N. 185 lks. S. $89^{\circ} 40'$ W. of the standard cor. of secs. 34 and 35, and set a quartzite stone 18 x 6 x 6 ins. 12 ins. in the ground for closing cor. of secs. 2 and 3, marked C C on S.; with 2 grooves on E. and 4 grooves on W. faces; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, S. of cor. Pits impracticable. Land, rolling hills. Soil, gravelly and stony; 3rd. and 4th. rate. Timber, paloverde. Undergrowth, mesquite, paloverde and greasewood. Land covered with dense undergrowth 72.66 chs.

September 1, 1909

September 2; At 7h. 00m., a.m., l.m.t., I set off $33^{\circ} 59'$ N. on the lat. arc: $8^{\circ} 03\frac{1}{2}'$ N. on the decl arc; and

Subdivision of Tp. 8 N. Rg. 5 W.

Chains.	determine a meridian with the solar at the cor. of secs. 3, 4, 33 and 34, on the S. bdy. of the township, Thence I run N. 0° 01' W. bet. secs. 33 and 34. Over rolling hilly land through dense underbrush. Cross drain 5 lks. wide course S. W. Ridge bears E. and W. Cross wash 10 lks. wide course S. W. Cross same wash Course S. E. Cross same wash course S. W. Cross same wash Course S. E. Cross same wash course S. W. Ridge bears E. and W. Cross drain 5 lks. wide course W. Ridge bears E. and W. 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 W. face; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Cross wash 50 lks. wide course E. Ridge bears E. and W. Cross drain 5 lks. wide course S. E. Set a malpais stone 18 x 10 x 6 ins. 12 ins. in the ground for cor. of secs. 27, 28, 33 and 34, marked with 1 notch on S. and 3 notches on E. edges; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, rolling. Soil, stony and gravelly; 3rd. and 4th. rate. Timber paloverde. Undergrowth, mesquite, paloverde and greasewood. Land covered with dense undergrowth, 80.00 chs.
0.50	
3.00	
4.75	
9.00	
14.40	
14.80	
18.75	
23.00	
23.40	
26.50	
40.00	
50.00	
60.00	
71.75	
80.00	
40.00	S. 89° 58' E. on a random line bet. secs. 27 and 34. Set temp. $\frac{1}{4}$ sec. cor.
79.96	Intersect N. and S. line 2 lks. S. of the cor. of secs. 26, 27, 34 and 35. Thence I run N. 89° 59' W. on a true line bet. secs. 27 and 34 Over rolling hilly land through dense brush. Cross drain 5 lks. wide course S. E. Ridge bears E. and W. Cross wash 10 lks. wide course N. E. Set a malpaps stone 18 x 10 x 6 ins. 12 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable. Ridge bears N. W. and S. E. Cross drain 6 lks. wide course S. Cross road bears N. W. and S. E. Ridge bears N. W. and S. E. Cross drain 5 lks. wide course S. Ridge bears N. and S. The cor. of secs. 27, 28, 33 and 34. Land, rolling. Soil, stony and gravelly; 3rd. and 4th. rate. Timber, paloverde. Undergrowth, mesquite, greasewood and paloverde. Land covered with dense undergrowth, 79.96 chs. September 3; At this cor. I set off 7° 57 $\frac{1}{2}$ ' N. On the decl. arc; and observe the sun on the meridian at noon, The resulting lat. is 34° 00' N.
2.00	
18.00	
21.60	
39.98	
45.00	
59.00	
64.55	
65.00	
70.25	
76.00	
79.96	
	N. 0° 01' W. bet. secs. 27 and 28 Over rolling hilly land, through dense underbrush.

Subdivision of Tp. 8 N. Rg. 5 W.

Chains	
0.50	Cross wash 15 lks. wide course S. W.
10.00	Ridge bears N. W. and S. E.
13.20	Cross drain 5 lks. wide course S. E.
19.20	Cross road bears N. W. and S. E.
32.75	Cross drain 5 lks. wide course E.
40.00	Set a malpais stone 18 x 8 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.
48.00	Cross Wash 20 lks. wide course E.
53.00	Across Martinez Wash, dry, course S. E.
69.00	Leave Martinez Wash
80.00	Set a malpais stone 24 x 8 x 8 ins. 18 ins. in the ground for cor. of secs. 21, 22, 27 and 28, marked with 2 notches on S. and 3 notches on E. edges; from which A paloverde 5 ins. diam., bears N. 49° E. 74 lks. dist., marked T8NR5WS22BT. A paloverde 6 ins. diam., bears S. $29\frac{1}{4}^{\circ}$ E. 55 lks. dist., marked T8NR5WS27BT. A paloverde 5 ins. diam., bears S. $33\frac{3}{4}^{\circ}$ W. 63 lks. dist., marked T8NR5WS28BT. A paloverde 5 ins. diam., bears N. $45\frac{3}{4}^{\circ}$ W. 99 lks. dist., marked T8NR5WS21BT.
	Land, rolling. Soil, stony, sandy and gravelly; 3rd. and 4th. rate. Timber, paloverde. Undergrowth, paloverde greasewood, and mesquite. Land covered with dense undergrowth 80.00 chs.
	—————
40.00	S. $89^{\circ} 59'$ E. on a random line bet. secs. 22 and 27. Set temp. $\frac{1}{4}$ sec. cor.
80.02	Intersect N. and S. line 5 lks. N. of the cor. of secs. 22, 23, 26 and 27. Thence I run N. $89^{\circ} 57'$ W. on a true line bet. secs. 22 and 27 Over rolling land through dense brush.
2.00	Cross ridge bears N. and S.
7.00	Cross wash 10 lks. wide course S. E.
8.50	Ridge bears N. and S.
11.00	Cross drain 5 lks. wide course S.
13.00	Ridge bears N. W. and S. E.
18.00	Cross wash 20 lks. wide course S. E.
35.00	Cross drain 5 lks. wide course S.
38.50	Cross drain 5 lks. wide course S.
40.01	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; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
42.00	Ridge bears N. W. and S. E.
46.80	Cross drain course S. E. 5 lks. wide
51.75	Ridge bears N. W. and S. E.
52.20	Cross wash 10 lks. wide course S. E.
58.00	Ridge bears N. and S.
65.15	Cross road bears N. W. and S. E.
68.80	Cross wash 20 lks. wide course S.
78.00	Ridge bears N. and S.
80.02	The cor. of secs. 21, 22, 27 and 28. Land, rolling. Soil, sandy, gravelly and stony; 3rd. and 4th. rate. Timber, paloverde. Undergrowth, mesquite, paloverde and greasewood. Land covered with dense undergrowth, 80.02 chs.

September 2, 1909.

Subdivision of Tp. 8 N. Rg. 5 W.

Chains.	September 3: At 7h. 00m., a.m., l.m.t., I set off 34° 01' N. on the lat. arc: 7° 41½' N. on the decl. arc, and determine a meridian with the solar at the cor. of secs. 21, 22, 27 and 28. Thence I run N. 0° 01' W. bet. secs. 21 and 22. Over rolling hilly land through dense underbrush.
5.50	Ridge bears E. and W.
16.15	Cross drain 5 lks. wide course E.
17.00	Ridge bears E. and W.
22.40	Cross wash 30 lks. wide course S. E.
28.00	Top of knoll.
29.50	Cross drain 5 lks. wide course S. E.
34.50	Top of knoll, descend.
40.00	Set a malpais stone 20 x 8 x 8 ins. 15 ins. in the ground for ¼ sec. cor., marked ¼ on W. face; and raise a mound of stone 2 ft. base 1½ ft. high, W. of cor. Pits impracticable. Ascend.
41.00	Top of knoll.
44.50	Cross wash 25 lks. wide course S. W.
62.00	Cross same wash course S. E.
64.90	Cross same wash course S. W.
80.00	Set a malpais stone 20 x 10 x 8 ins. 15 ins. in the ground for cor. of secs. 15, 16, 21 and 22, marked with 3 notches on S. and E. edges; from which A paloverde 5 ins. diam., bears N. 68° E. 102 lks. dist., marked T8NR5WS15BT A paloverde 6 ins. diam., bears S. 10½° E. 131 lks. dist., marked T8NR5WS22BT No other trees available. Raise a mound of stone 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable. Land, rolling hills. Soil, stony sandy and gravelly; 3rd. and 4th. rate. Timber, paloverde. Undergrowth, paloverde, greasewood and mesquite. Land covered with dense undergrowth, 80.00 chs.
40.00	S. 89° 57' E. on a random line bet. secs. 15 and 22. Set temp. ¼ sec. cor.
79.96	Intersect N. and S. line 7 lks. N. of the true point for cor. of secs. 14, 15, 22 and 23. Thence I run N. 89° 54' W. bet. secs. 15 and 22, from true point for cor. Ascending through dense brush.
0.80	Set a malpais stone 20 x 10 x 5 ins. 15 ins. in the ground for witness cor. to cor. of secs. 14, 15, 22 and 23, marked W C on N. E. face; with 3 notches on S. and 2 notches on E. edges; from which A paloverde 4 ins. diam., bears S. 30° E. 32 lks. dist. marked WCT8NR5WS22BT. No other trees available. Raise a mound of stone 2 ft. base 1½ ft. high, W. of cor. Pits impracticable.
4.00	Ridge bears N. W. and S. E. descend.
5.00	Cross drain 5 lks. wide course S. ascend.
7.00	Cross drain 5 lks. wide course S.
8.30	Cross drain 5 lks. wide course S.
14.20	Cross wash 25 lks. wide course S. E.
17.10	Cross same wash course N. E.
17.75	Cross same wash course S. E.
23.00	Ridge bears N. W. and S. E. descend.
25.40	Drain 5 lks. wide course S. E.
30.00	Cross drain 5 lks. wide course S. E. ascend.
31.00	Cross drain 5 lks. wide course S. E.
34.00	Ridge bears N. and S.
39.98	Point for ¼ sec. cor. falls in wash 20 lks. wide course S. so at
40.98	Set a granite stone 18 x 8 x 6 ins. 12 ins. in the

Subdivision of Tp. 8 N. Rg. 5 W.

Chains.	ground for witness cor. to $\frac{1}{4}$ sec. cor., marked W C $\frac{1}{4}$ on N. face; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high N. of cor. pits impracticable.
41.75	Cross drain 5 lks. wide course S. E.
50.00	Ridge bears N. and S.
55.50	Cross drain 5 lks. wide course S.
62.00	Ridge bears N. and S.
76.00	Cross wash 25 lks. wide course S.
79.96	The cor. of secs. 15, 16, 21 and 22. Land, hilly. Soil, sandy, gravelly and stony; 3rd. and 4th. rate. Timber, paloverde. Undergrowth, mesquite, greasewood and paloverde. Land covered with dense undergrowth 79.96 chs. September 3: At this cor. I set off $7^{\circ} 35\frac{1}{2}'$ N. on the decl. arc; and observe the sun on the meridian at noon the resulting lat. is $34^{\circ} 01\frac{1}{2}'$ N.

	N. $0^{\circ} 01'$ W. bet. secs. 15 and 16. Over rolling hilly land through dense underbrush.
11.00	Ridge bears N. W. and S. E.
25.50	Cross drain 5 lks. wide course W.
30.50	Cross wash 100 lks. wide course S. W.
33.50	Ridge bears N. E. and S. W.
35.50	Cross drain 5 lks. wide course S. W.
40.00	Point for $\frac{1}{4}$ sec. cor. falls in drain 8 lks. wide course S. W. so at
41.00	Set a malpais stone 24 x 10 x 6 ins. 18 ins. in the ground for witness cor. to $\frac{1}{4}$ sec. cor., marked W C $\frac{1}{4}$ on W. face; from which A paloverde 4 ins. diam., bears S. $59\frac{1}{2}^{\circ}$ E. 110 lks. dist., marked W C $\frac{1}{4}$ S15BT. A paloverde 8 ins. diam., bears N. 85° W. 44 lks. dist., marked W C $\frac{1}{4}$ S16BT.
44.00	Ridge bears N. W. and S. E.
48.20	Cross wash 25 lks. wide course S. E.
52.50	Ridge bears E. and W.
62.50	Ridge bears E. and W.
71.20	Cross drain 5 lks. wide course E.
77.00	Ridge bears N. W. and S. E.
80.00	Set a malpais stone 20 x 12 x 8 ins. 15 ins. in the ground for cor. of secs. 9, 10, 15 and 16, marked with 4 notches on S. and 3 notches on E. edges; from which A paloverde 4 ins. diam., bears N. $68\frac{1}{2}^{\circ}$ E. 54 lks. dist., marked T8NR5WS10BT. A paloverde 4 ins. diam., bears S. 48° E. 166 lks. dist., marked T8NR5WS15BT. A paloverde 4 ins. diam., bears S. $26\frac{1}{2}^{\circ}$ W. 33 lks. dist., marked T8NR5WS16BT. A paloverde 8 ins. diam., bears N. 26° W. 87 lks. dist., marked T8NR5WS9BT. Land, hilly. Soil, gravelly and stony; 2nd. and 4th. rate. Timber, paloverde. Undergrowth, paloverde, mesquite and greasewood. land covered with dense undergrowth 80.00 chs.

40.00	S. $89^{\circ} 54'$ E. on a random line bet. secs. 10 and 15 Set temp. $\frac{1}{4}$ sec. cor.
79.92	Intersect N. and S. line 12 lks. S. of the cor. of secs 10, 11, 14 and 15. Thence I run N. $89^{\circ} 59'$ W. on a true line bet. secs. 10 and 15. Over rolling land through dense brush.
7.50	Ridge bears N. and S.

Subdivision of Tp. 8 N Rg. 5 W.

Chains.	
32.70	Cross wash 20 lks. wide course S. W.
39.96	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; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
68.50	Cross drain 5 lks. wide course S. E. ascend.
79.92	The cor. of secs. 9, 10, 15 and 16 Land, rolling. Soil, sandy and gravelly: 3rd. and 4th. rate. Timber, paloverde. Undergrowth, paloverde, greasewood and mesquite. Land covered with dense undergrowth, 79.92 chs.
	September, 3, 1909.
	September 4: At 7h. 00m., a.m., 1.m.t., I set off $34^{\circ} 02\frac{1}{2}'$ N. on the lat. arc: $7^{\circ} 20'$ N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 9, 10, 15 and 16 Thence I run N. $0^{\circ} 01'$ W. bet. secs. 9 and 10 Over rolling hilly land, through dense brush.
16.00	Ridge bears N.N.E. and S.S.W.
36.00	Ridge bears S. W. and N. E.
40.00	Set a malpais stone 28 x 12 x 10 ins. 31 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. $54\frac{1}{4}^{\circ}$ E. 76 lks. dist., marked $\frac{1}{4}$ S10BT A paloverde 5 ins. diam., bears N. $15\frac{1}{2}^{\circ}$ W. 54 lks. dist., marked $\frac{1}{4}$ S9BT.
48.50	Cross drain 5 lks. wide course W.
55.00	Ridge bears E. and W.
64.00	Cross drain 5 lks. wide course S. W.
68.25	Ridge bears N. E. and S. W.
74.40	Ridge bears E. and W.
80.00	Set a malpais stone 18 x 12 x 8 ins. 12 ins. in the ground for cor. of secs. 3, 4, 9 and 10, marked with 5 notches on S. and 3 notches on E. edges; from which A paloverde 6 ins. diam., bears N. 41° E. 60 lks. dist., marked T8NR5WS3BT. A paloverde 4 ins. diam., bears S. $44\frac{1}{2}^{\circ}$ E. 79 lks. dist., marked T8NR5WS10BT A paloverde 5 ins. diam., bears S. $68\frac{1}{2}^{\circ}$ W. 65 lks. dist., marked T8NR5WS9BT. A paloverde 4 ins. diam., bears N. 68° W. 61 lks. dist., marked T8NR5WS4BT. Land, rolling hills. Soil, stony and gravelly; 3rd. and 4th. rate. Timber, paloverde. Undergrowth, paloverde, greasewood and mesquite. Land covered with dense undergrowth, 80.00 chs.
	S. $89^{\circ} 59'$ E. on a random line bet. secs. 3 and 10
40.00	Set temp. $\frac{1}{4}$ sec. cor.,
79.98	Intersect N. and S. line 16 lks. N. of the cor. of secs. 2, 3, 10, and 11. Thence I run N. $89^{\circ} 52'$ W. on a true line bet. secs. 3, and 10. Over rolling hilly land, through dense brush.
6.50	Cross drain 5 lks. wide course S.W..
9.00	Ridge bears N. and S.
12.00	Cross drain 5 lks. wide course S. E.
18.00	Ridge bears N. and S.
26.20	Cross drain 5 lks. wide course S. over rolling land.
39.99	Set a malpais stone 18 x 10 x 10 ins. 12 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; from which

Subdivision of Tp. 8 N. Rg. 5 W.

Chains.	A paloverde 5 ins. diam., bears N. $23\frac{1}{4}^{\circ}$ E. 196 Lks. dist., marked $\frac{1}{4}$ S3BT. A paloverde 4 ins. diam. bears S. 61° W. 127 lks. dist., marked $\frac{1}{4}$ S10BT.
53.00	Cross drain 8 lks. wide course N. W. Ascend.
65.00	Ridge bears N. W. and S. E.
74.40	Cross drain 6 lks. wide course N. W.
79.85	Cross drain 6 lks. wide course N. W.
79.98	The cor. of secs. 3, 4, 9 and 10. Land, rolling. Soil, gravelly and stony; 3rd. and 4th. rate. Timber, paloverde. Undergrowth, mesquite, greasewood and paloverde. Land covered with dense undergrowth 79.98 chs. September 4: At this cor. I set off $7^{\circ} 14'$ 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.
	<hr/>
	N $0^{\circ} 1'$ W. bet. secs. 3 and 4
	Over rolling hilly land through dense underbrush
0.30	Cross drain 5 lks. wide course N. W.
2.00	Cross drain 6 lks. wide course N. W.
7.00	Ridge bears E. and W.
16.00	Cross wash 200 lks. wide course W.
22.00	Cross wash 100 lks. wide course S. W.
27.00	Ridge bears E. and W.
37.75	Along drain 5 lks. wide course S. W.
39.00	Leave drain.
40.00	Set a granite 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 S. 31° E. 79 lks. dist., marked $\frac{1}{4}$ S3BT A paloverde 5 ins. diam., bears S. $52\frac{1}{4}^{\circ}$ W 90 lks. dist., marked $\frac{1}{4}$ S4BT.
40.30	Cross drain 5 lks. wide course S. W.
46.00	Ridge bears E. and W. High hill bears E. 40.00 chs.
47.00	A Cross wash 150 lks. wide course S. W.
54.00	Leave wash.
72.47	Intersect 2nd. Standard Parallel North 215 lks. S. $89^{\circ} 45'$ W. of the standard cor. of secs. 33 and 34 and set a granite stone 18 x 10 x 8 ins. 12 ins. in the ground for closing cor. of secs. 3 and 4, marked C C on S., with 3 grooves on E. and W. faces; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, S. of cor., pits impracticable. Land, rolling hills. Soil, stony and gravelly; 3rd. and 4th. rate. Timber, paloverde. Undergrowth, paloverde, mesquite, and greasewood. Land covered with dense undergrowth 72.47 chs.
	September 4, 1909.
	<hr/>
	September 5: At 7h. 00m., a.m., l.m.t., I set off $33^{\circ} 59'$ N. on the lat. arc: $6^{\circ} 57\frac{1}{2}'$ N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 4, 5 32 and 33 on the S. bdy. of the township. Thence I run N. $0^{\circ} 02'$ W. bet. secs. 32 and 33 Over hilly land through dense brush.
3.00	Ridge bears N. E and S. W.
5.50	Cross telephone line bears N. W. and S. E.
6.10	Cross S. F. P. & P. Ry. bears N. W. and S. E. and across flat.
10.00	Cross road bears N. W. and S. E.

Subdivision of Tr. 8 N. Rg. 5 W.

Chains.	
14.50	Cross wash 40 lks. wide course S. E.
16.30	Cross wash 30 lks. wide course S. E. and over hilly land.
40.00	Set a malpais stone 18 x 6 x 6 ins. 12 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; from which A paloverde 7 ins. diam., bears S. 16° E. 46 lks. dist., marked $\frac{1}{4}$ S33BT. A paloverde 5 ins. diam., bears S. 32° W. 43 lks. dist., marked $\frac{1}{4}$ S32BT.
53.00	Ridge bears N. W. and S. E.
65.00	Cross drain 5 lks. wide course E.
73.00	Ridge bears E. and W.
80.00	Set a malpais stone 18 x 8 x 6 ins. 12 ins. in the ground for cor. of secs. 28, 29, 32 and 33, marked with 1 notch on S. and 4 notches on E. edges; from which A paloverde 4 ins. diam., bears N. 30° W. 5 lks. dist., marked T8NR5WS29BT. 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 hilly. Soil, sandy, gravelly and stony; 2nd. and 4th. rate. Timber, paloverde. Undergrowth, mesquite, greasewood and paloverde. Land covered with dense undergrowth, 80.00 chs.
40.00	S. 89° 58' E. on a random line bet. secs. 28 and 33 Set temp. $\frac{1}{4}$ sec. cor.
79.86	Intersect N. and S. line 5 lks. S. of the cor. of secs. 27, 28, 33 and 34. Thence I run West on a true line bet. secs. 28 and 33.
0.50	Cross wash 15 lks. wide course S.
4.75	Ridge bears N. and S.
8.10	Cross wash 15 lks. wide course S. E.
17.00	Ridge bears N. and S.
28.70	Cross wash 30 lks. wide course S. E.
39.93	Set a malpais stone 24 x 10 x 10 ins. 18 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. 30° E. 60 lks. dist., marked $\frac{1}{4}$ S38BT. A paloverde 4 ins. diam., bears S. 12° E. 77 lks. dist., marked $\frac{1}{4}$ S33BT.
58.75	Cross drain 8 lks. wide course south.
60.75	Cross drain 6 lks. wide course S. E.
66.00	Cross same drain 6 lks. wide course N. E.
79.86	The cor. of secs. 28, 29, 32 and 33. Land, rolling. Soil, gravelly and stony; 3rd. and 4th. rate. Timber, paloverde. Undergrowth, mesquite, paloverde and greasewood. Land covered with dense undergrowth, 79.86 chs. September 5; At this cor. I set off 6° 51 $\frac{1}{2}$ ' N. on the decl. arc; and observe the sun on the meridian at noon, the resulting lat. is 34° 00' N.
10.50	N. 0° 02' W. bet. secs. 28 and 29 Over hilly land through dense underbrush.
15.50	Cross drain 6 lks. wide course E.
16.40	Ridge bears E. and W.
18.00	Cross drain 6 lks. wide course E.
20.60	Ridge bears E. and W.
26.00	Cross drain 6 lks. wide course E.
32.00	Ridge bears E. and W.
40.00	Cross drain 5 lks. wide course E. Set a malpais stone 18 x 8 x 8 ins. 12 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; from which

Subdivision of Tp. 8 N. Rg. 5 W.

Chains.	A paloverde 4 ins. diam., bears S. 50° E. 53 lks. dist., marked $\frac{1}{4}$ S28BT.
	A paloverde 6 ins. diam., bears N. 41 $\frac{1}{2}$ ° W. 141 lks. dist., marked $\frac{1}{4}$ S29BT.
44.50	Cross drain 8 lks. wide course E.
50.00	Cross drain 6 lks. wide course E.
58.00	Cross ridge bears E. and W.
64.00	Cross road bears N. W. and S. E.
67.00	Ridge bears N. W. and S. E.
77.80	Cross drain 5 lks. wide course S. E.
80.00	Set a malpais stone 18 x 8 x 8 ins. 12 ins. in the ground for cor. of secs. 20, 21, 28 and 29, marked with 2 notches on S. and 4 notches on E. edges; from which A paloverde 6 ins. diam., bears N. 11 $\frac{1}{2}$ ° E. 131 lks. dist., marked T8NR5WS21BT A paloverde 4 ins. diam., bears S. 45 $\frac{1}{2}$ ° E. 53 lks. dist., marked T8NR5WS28BT. A paloverde 6 ins. diam., bears S. 62 $\frac{1}{2}$ ° W. 63 lks. dist., marked T8NR5WS29BT. A paloverde 5 ins. diam., bears N. 39 $\frac{1}{4}$ ° W. 153 lks. dist., marked T8NR5WS20BT.

Land, hilly.
Soil, stony and gravelly; 3rd. and 4th. rate.
Timber, paloverde.
Undergrowth, mesquite, greasewood and paloverde.
Land covered with dense undergrowth, 80.00 chs.

40.00	East on a random line bet. secs. 21 and 28 Set temp. $\frac{1}{4}$ sec. cor.,
79.96	Intersect N. and S. line 7 lks. S. of the cor. of secs. 21, 22, 27 and 28: Thence I run S. 89° 57' W. on a true line bet. secs. 21 and 28 Descend steep slope through dense brush.
10.45	Across Martinez Wash course S. E.
33.00	Leave Martinez Wash and ascend steep slope.
36.50	Over rolling land.
39.98	Set a malpais stone 20 x 12 x 7 ins. 15 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; from which A paloverde 4 ins. diam., bears S. 86° W. 61 lks. dist., marked $\frac{1}{4}$ S28BT A paloverde 5 ins. diam., bears N. 54 $\frac{1}{4}$ ° W. 81 lks. dist., marked $\frac{1}{4}$ S21BT.
50.25	Cross wash 20 lks. wide course N. E.
61.10	Cross wash 25 lks. wide course N. E.
79.96	The cor. of secs. 20, 21, 28 and 29. Land, rolling and hilly. Soil, sandy and gravelly and stony; 2nd. 3rd. and 4th. rate. Timber, paloverde. Undergrowth, mesquite, greasewood and paloverde. Land covered with dense undergrowth, 79.96 chs.

September 5, 1909.

September 6: At 7h. 00m., a.m., l.m.t., I set off 34°
01' N. on the lat. arc: 6° 35 $\frac{1}{2}$ ' N. on the decl. arc:
and determine a meridian with the solar at the cor. of
secs. 20, 21, 28 and 29.

	Thence I run N. 0° 02' W. bet. secs. 20 and 21 Over rolling land through dense brush.
2.00	Descend into wash.
12.00	Across Martinez Wash course S. E.
33.50	Leave Martinez Wash.
40.00	Set a malpais stone 20 x 10 x 6 ins. 15 ins. in the

Subdivision of Tp. 8 N. Rg. 5 W.

Chains	ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; from which A paloverde 5 ins. diam., bears S. $18\frac{1}{2}^{\circ}$ E. 74 lks. dist., marked $\frac{1}{4}$ S21BT. A paloverde 4 ins. diam., bears S. $49\frac{3}{4}^{\circ}$ W. 96 lks. dist., marked $\frac{1}{4}$ S20 BT.
48.40	Cross drain 5 lks. wide course S. E. and ascend steep slope.
67.15	Cross drain 5 lks. wide course S. W.
78.00	Top of high malpais ridge bears SE. and NW.
80.00	Set a malpais stone 24 x 14 x 10 ins. 18 ins. in the ground for cor. of secs. 16, 17, 20 and 21, marked with 3 notches on S. and 4 notches on E. edges; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, rolling and hilly. Soil, gravelly and stony; 3rd. and 4th. rate. Timber, paloverde. Undergrowth, paloverde, mesquite and greasewood.
40/00	N. $89^{\circ} 57'$ E. on a random line bet. secs. 16 and 21. Set temp. $\frac{1}{4}$ sec. cor.
80.02	Intersect N. and S. line 23 lks. N. of the cor. of secs. 15, 16, 21 and 22 Thence I run N. $89^{\circ} 53'$ W. on a true line bet. secs. 16 and 21. Ascending steep slope through dense brush.
5.60	Ridge bears N. and S. and descend.
17.00	Cross wash 20 lks. wide course S. and over rolling land.
18.50	Cross wash 20 lks. wide course S.
23.50	Ridge bears N. and S.
26.00	Cross drain 5 lks. wide course S.
29.50	Ridge bears N. and S.
33.90	Cross drain 5 lks. wide course S.
34.75	Ridge bears N. and S.
38.20	Cross drain 5 lks. wide course S.
39.00	Cross drain 5 lks. wide course S.
40.01	Set a malpais stone 18 x 12 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 6 ins. diam., bears N. 10° E. 30 lks. dist., marked $\frac{1}{4}$ S16BT. A catclaw 6 ins. diam., bears S. 86° E. 33 lks. dist., marked $\frac{1}{4}$ S21BT.
41.50	Ridge bears N. and S.
50.00	Cross drain 5 lks. wide course S.
58.00	Ridge bears N. and S.
66.00	Cross wash 15 lks. wide course S. ascend.
80.02	The cor. of secs. 16, 17, 20 and 21. Land, rolling and hilly. Soil, stony and gravelly; 3rd. and 4th. rate. Timber, paloverde. Undergrowth, mesquite, paloverde and greasewood. Land covered with dense undergrowth, 80.02 chs. September 6: At this cor. I set off $6^{\circ} 29'$ N. on the decl. arc: and observe the sun on the meridian at noon, the resulting lat. is $34^{\circ} 01\frac{1}{2}'$ N.
10.30	N. $0^{\circ} 02'$ W. bet. secs. 16 and 17. Over rolling hilly land through dense brush.
16.75	Cross drain 5 lks. wide course N. W.
20.00	Ridge bears N. W. and S. E.
33.00	Across flat. Set a granite stone 18 x 12 x 10 ins. 12 ins. in the ground for witness cor. to $\frac{1}{4}$ sec. cor., marked W C $\frac{1}{4}$ on W. face; from which A mesquite 6 ins. diam., bears S $15\frac{1}{2}^{\circ}$ E. 204

Subdivision of Tp. 8 N. Rg. 5 W.

Chains. lks. dist., marked WC $\frac{1}{4}$ S16BT.
 A mesquite 6 ins. diam., bears S. 60° W. 118
 lks. dist., marked WC $\frac{1}{4}$ S17BT.
 33.75 Across Martinez Wash, course S. W.
 40.00 Point for $\frac{1}{4}$ sec. cor. falls in wash
 46.00 Leave Martinez Wash and along wash running into
 Martinez Wash at point of junction. Course of Martinez
 Wash S. W.
 55.00 Leave wash 150 lks. wide bears N. E.
 71.00 Along E. side of wash 25 lks. wide course S. W.
 74.00 Leave wash bears N. W.
 80.00 Set a malpais stone 20 x 8 x 8 ins. 12 ins. in the
 ground for cor. of secs. 8, 9, 16 and 17, marked with
 4 notches on S. and E. edges; and raise a mound of
 stone 2 ft. base 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracti-
 cable.
 Land, rolling and hilly.
 Soil, sandy, gravelly and stony; 3rd. and 4th. rate.
 Timber, paloverde.
 Undergrowth, paloverde, mesquite and greasewood.
 Land covered with dense undergrowth 80.00 chs.

 S. 89° 53' E. on a random line bet. secs. 9 and 16
 40.00 Set temp. $\frac{1}{4}$ sec. cor.,
 79.96 Intersect N. and S. line 5 lks. N. of the cor. of secs.
 9, 10, 15 and 16.
 Thence I run

 N. 89° 51' W. on a true line bet. secs. 9 and 16.
 Over rolling hilly land through dense brush.
 2.75 Ridge bears N. and S.
 13.30 Cross wash 30 lks. wide course S.
 25.00 Ridge bears N. and S.
 39.98 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 N. face; from which
 A paloverde 4 ins. diam., bears N. 80° E. 31
 lks. dist., marked $\frac{1}{4}$ S9BT
 A paloverde 5 ins. diam., bears S. 9 $\frac{1}{2}$ ° W. 104
 lks. dist., marked $\frac{1}{4}$ S16BT.

49.90 Cross road bears N. and S.
 51.00 Across Martinez Wash course S. W.
 67.00 Leave wash.
 73.00 Ridge bears N. and S.
 77.00 Cross road bears N. W. and S. E.
 78.50 Cross drain 5 lks. wide course S.
 79.96 The cor. of secs. 8, 9, 16 and 17.
 Land, rolling and hilly.
 Soil, sandy, gravelly, and rocky; 3rd. and 4th. rate.
 Timber, paloverde.
 Undergrowth, paloverde, mesquite and greasewood.

September 6, 1909.

September 7: At 7h. 00m., a.m., l.m.t., I set off 34°
 02 $\frac{1}{2}$ ' N. on the lat. arc: 6° 13' N. on the decl. arc;
 and determine a meridian with the solar at the cor. of
 secs. 8, 9, 16 and 17.

Thence I run

 N. 0° 02' W. bet. secs. 8 and 9.
 Over rolling land through dense brush.
 5.75 Cross road bears N. W. and S. E.
 7.00 Cross wash 30 lks. wide course S. W.
 28.25 Cross drain 6 lks. wide course S. W.
 33.30 Ridge bears N. E. and S. W.
 40.00 Set a limestone 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 paloverde 6 ins. diam., bears S. 31 $\frac{1}{4}$ ° E. 69

Subdivision of Tp. 8 N. Rg. 5 W.

Chains.	lks. dist., marked $\frac{1}{4}$ S9BT
	A mesquite 5 ins. diam., bears N. $77\frac{1}{2}^{\circ}$ W. 139
	lks. dist., marked $\frac{1}{4}$ S8BT.
40.85	Cross drain 5 lks. wide course S. W.
70.00	Ridge bears N. E. and S. W.
80.00	Set a malpais stone 18 x 13 x 8 ins. 12 ins. in the ground for cor. of secs. 4, 5, 8 and 9, marked with 5 notches on S. and 4 notches on E. edges; from which.
	A paloverde 5 ins. diam., bears N. $23\frac{1}{2}^{\circ}$ E. 54
	lks. dist., marked T8NR5WS4BT.
	A paloverde 5 ins. diam., bears S. $54\frac{1}{4}^{\circ}$ E. 30
	lks. dist., marked T8NR5WS9BT.
	A paloverde 6 ins. diam., bears S. $46\frac{3}{4}^{\circ}$ W. 132
	lks. dist., marked T8NR5WS8BT.
	A paloverde 5 ins. diam., bears N. 63° W. 196
	lks. dist., marked T8NR5WS5BT.
	Land, rolling.
	Soil, gravelly and stony; 3rd. and 4th. rate.
	Timber, paloverde.
	Undergrowth, paloverde, greasewood, and mesquite.
	Land covered with dense undergrowth, 80.00 chs.
	<hr/>
	S. $89^{\circ} 51'$ E. on a random line bet. secs. 4 and 9
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.06	Intersect N. and S. line 5 lks. N. of the cor. of secs. 3, 4, 9 and 10,
	Thence I run
	N. $89^{\circ} 49'$ W. on a true line bet. secs. 4 and 9
	Over rolling hilly land, through dense undergrowth
3.30	Cross drain 8 lks. wide course S. W.
5.00	Ridge bears N. E. and S. W.
5.60	Cross drain 10 lks. wide course S.
8.00	Ridge bears N. E. and S. W.
13.00	Cross drain 7 lks. wide course S. W.
28.00	Across Martinez Wash course S.
40.03	Point for $\frac{1}{4}$ sec. cor. falls in wash
43.50	Leave Martinez Wash.
48.03	Set a malpais stone 20 x 14 x 8 ins. 15 ins. in the ground for witness cor. to $\frac{1}{4}$ sec. cor., marked WC $\frac{1}{4}$ on N. face; from which
	A paloverde 5 ins. diam., bears S. 11° E. 48
	lks. dist., marked WC $\frac{1}{4}$ S9BT.
	A paloverde 5 ins. diam., bears N. $5\frac{1}{2}^{\circ}$ W. 26
	lks. dist., marked WC $\frac{1}{4}$ S4BT.
49.00	Ridge bears N. and S.
56.00	Cross drain 8 lks. wide course S.
59.00	Ridge bears N. and S.
63.00	Cross drain 8 lks. wide course S. Ascend.
79.00	Ridge bears N. and S.
80.06	The cor. of secs. 4, 5, 8 and 9.
	Land, rolling and hilly.
	Soil, gravelly, sandy, and stony; 3rd. and 4th. rate.
	Timber, paloverde.
	Undergrowth, mesquite, paloverde and greasewood.
	Land covered with dense undergrowth, 80.06 chs.
	September 7; At. this cor. I set off $6^{\circ} 07'$ 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.
	<hr/>
	N $0^{\circ} 2'$ W bet. secs. 4 and 5.
	Over rolling land through dense brush.
4.00	Ridge bears E. and W.
16.40	Cross drain 10 lks. wide course E.
18.00	Ridge bears E. and W.
21.00	Cross wash 10 lks. wide course S. E.

Subdivision of Tp. 8 N. Rg. 5 W.

Chains.

40.00 Set a malpais stone 18 x 12 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 6 ins. diam., bears S. 52° E. 189 lks. dist., marked $\frac{1}{4}$ S4BT.
 A paloverde 5 ins. diam., bears S. 53 $\frac{1}{2}$ ° W. 114 lks. dist., marked $\frac{1}{4}$ S5BT.

72.00 Intersect 2nd. Standard Parallel North 156 lks. N. 89° 34' W. of the standard cor. of secs. 32 and 33, and set a malpais stone 20 x 12 x 8 ins. 15 ins. in the ground for closing cor. of secs. 4 and 5, marked C C on S. with 4 grooves on E. and 2 grooves on W. faces; from which
 A paloverde 5 ins. diam., bears S. 79° E. 82 lks. dist., marked CCT8NR5WS4BT.
 A paloverde 5 ins. diam., bears S. 19 $\frac{1}{2}$ ° W. 26 lks. dist., marked CCT8NR5WS5BT.

Land, rolling.
 Soil, gravelly and stony; 3rd. and 4th. rate.
 Timber, paloverde.
 Undergrowth, mesquite, paloverde and greasewood.
 Land covered with dense undergrowth 72.00 chs.

September 7, 1909.

September 8; At 7h. 00m., a.m., l.m.t., I set off 33° 59' N. on the dat. arc; 5° 50 $\frac{1}{2}$ ' N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 31 and 32 on the S. bdy. of the Tp.

Thence I run
 N. 02' W. bet. secs. 31 and 32.
 Over rolling land through dense brush.

.0.60 Ridge bears E. and W.
 20.00 Cross wash 150 lks. wide course S. E.
 24.75 Cross wash 50 lks. wide course S. E.
 28.25 Cross old road bears N. W. and S. E.
 34.77 Cross telegraph line bears N. W. and S. E.
 35.46 Cross S. F. P. & P. Ry. 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 W. face; and raise a mound of stone 2 ft. base 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
 Station building at A. & C. Junction bears N. 73° W. 15.00 chs. dist.

50.00 Ridge bears E. and W.
 52.40 Cross drain 5 lks. wide course S. E.
 56.50 Ridge bears E. and W.
 59.00 Cross drain 6 lks. wide course E.
 62.00 Ridge bears E. and W.
 70.15 Cross drain 5 lks. wide course E.
 73.00 Ridge bears E. and W.
 75.00 Cross drain 5 lks. wide course E.
 77.00 Ridge bears E. and W.
 80.00 Set a malpais stone 18 x 8 x 6 ins. 12 ins. in the ground for cor. of secs. 29, 30, 31 and 32, marked with 1 notch on S. and 5 notches on E. edges; and raise a mound of stone 2 ft. base 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
 Land rolling.
 Soil, stony and gravelly; 3rd. and 4th. rate.
 Timber, paloverde.
 Undergrowth, paloverde, mesquite and greasewood.
 Land covered with dense undergrowth, 80.00 chs.

S. 89° 58' E. on a random line bet. secs. 29 and 32.

Subdivision of Tp. 8 N. Rg. 5 W.

Chains.	September 9: at 7h. oom., a.m., l.m.t., I set off $34^{\circ} 00'$ N. on the lat. arc: $5^{\circ} 28'$ N. on the decl. arc: and determine a meridian with the solar at the cor. of secs. 29, 30, 31 and 32. Thence I run N. $0^{\circ} 02'$ W. bet. secs. 29 and 30 Over rolling land through dense undergrowth.
0.10	Cross drain 5 lks. wide course E.
2.60	Ridge bears E. and W.
4.00	Cross drain 5 lks. wide course E.
10.00	Ridge bears E. and W.
12.20	Cross drain 5 lks. wide course E.
14.00	Cross ridge bears E. and W.
16.50	Cross drain 5 lks. wide course E.
19.00	Ridge bears E. and W.
32.00	Cross wash 15 lks. wide course S. E.
39.00	Ridge bears E. and W.
39.75	Cross wash 15 lks. wide course 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.
59.75	Cross wash 15 lks. wide course S. E.
60.25	Cross wash 15 lks. wide course S. W.
64.00	Ridge bears E. and W.
67.00	Cross drain 5 lks. wide course S. W.
72.00	Ridge bears E. and W.
79.60	Cross drain 6 lks. wide course W.
80.00	Set a malpais stone 18 x 10 x 6 ins. 12 ins. in the ground for cor. of secs. 19 20, 29 and 30, marked with 2 notches on S. and 5 notches on E. edges: and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, rolling. Soil, stony and gravelly; 3rd. and 4th. rate. Timber, paloverde. Undergrowth, paloverde, mesquite and greasewood. Land covered with dense undergrowth 80.00 chs.
40.00	East on a random line bet. secs. 20 and 29 Set temp. $\frac{1}{4}$ sec. cor.
80.00	Intersect N. and S. line 2 lks. N. of the cor. of secs. 20, 21, 28 and 29. Thence I run N. $89^{\circ} 59'$ W. on a true line bet. secs. 20 and 29 Over rolling land, through dense brush.
12.00	Ridge bears N. and S.
22.90	Cross drain 8 lks. wide course N.
33.90	Cross road bears N. W. and S. E.
35.00	Ridge bears N. W. and S. E.
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 N. face; from which A paloverde 8 ins. diam., bears N. $39\frac{1}{2}^{\circ}$ E. 119 lks. dist., marked $\frac{1}{4}$ S20BT. A paloverde 6 ins. diam., bears S. $4\frac{1}{2}^{\circ}$ W. 23 lks. dist., marked $\frac{1}{4}$ S29BT.
41.25	Cross drain 5 lks. wide course S.
48.50	Ridge bears N. and S.
59.20	Cross wash 15 lks. wide course S.
70.00	Cross drain 8 lks. wide course S.
76.00	Ridge bears N. and S.
80.00	The cor. of secs. 19, 20, 29 and 30. Land, rolling. Soil, gravelly and stony; 3rd. and 4th. rate. Timber, paloverde. Undergrowth, paloverde, mesquite and greasewood. September 9: At this cor. I set off $5^{\circ} 21\frac{1}{2}'$ N. on the

Subdivision of Tp. 8 N. Rg. 5 W.

Chains.	decl. arc: and observe the sun on the meridian at noon, the resulting lat. is 34° 01' N.
40.00	S. 89° 50' W. on a random line bet. secs. 19 and 30
80.12	Set temp. $\frac{1}{4}$ sec. cor., Intersect W. bdy. of Tp. 16 lks. S. of the cor. of secs. 19, 24, 25 and 30. Thence I run N. 89° 57' E. on a true line bet. secs. 19 and 30. Over rolling land through dense brush.
12.00	Cross drain 8 lks. wide course S.
23.00	Cross drain 6 lks. wide course S.
25.00	Cross telephone line bears N. W. and S. E.
31.00	Cross drain 5 lks. wide course S.
40.12	Set a malpais stone 18 x 10 x 10 ins. 12 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; dig pits 18 x 18 x 12 ins. E. and W. of stone 3 ft. dist; and raise a mound of earth 3 $\frac{1}{2}$ ft. base 1 $\frac{1}{2}$ ft. high, N. of cor.
40.90	Cross drain 7 lks. wide course S.
48.50	Cross wash 75 lks. wide course S.
48.78	Cross telegraph line bears N. and S.
49.36	Cross S. F. P. & P. Ry. bears N. and S.
50.00	Cross wash 30 lks. wide course S.
51.50	Cross wash 50 lks. wide course S.
67.00	Cross drain 5 lks. wide course S.
80.12	The cor. of secs. 19, 20, 29 and 30. Land, rolling. Soil, stony and gravelly; 3rd. and 4th. rate. Timber, paloverde. Undergrowth, mesquite, paloverde, and greasewood. Land covered with dense undergrowth 80.12 chs.
	September 9, 1909.
	September 10: At 7h.00M. a.m., l.m.t., I set off 34° 01' N. on the lat. arc: 5° 05' N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 19, 20, 29 and 30 Thence I run N. 0° 02' W. bet. secs. 19 and 20 Over rolling land through dense brush.
1.00	Ridge bears E. and W.
10.00	Cross drain 6 lks. wide course E.
15.00	Ridge bears E. and W.
21.00	Cross drain 6 lks. wide course E.
33.00	Ridge bears E. and W.
38.00	Cross drain 6 lks. wide course E.
38.10	Cross road bears N. W. and S. E.
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; dig pits 18 x 18 x 12 ins. N. and S. of stone 3 ft. dist., and raise a mound of earth 3 $\frac{1}{2}$ ft. base 1 $\frac{1}{2}$ ft. high, W. of cor.
50.75	Road bears E. and W.
56.00	Ridge bears E. and W.
61.35	Cross drain 6 lks. wide course E.
63.00	Ridge bears E. and W.
69.50	Cross drain 6 lks. wide course E.
75.00	Ridge bears E. and W.
78.00	Cross drain 6 lks. wide course E.
79.00	Ridge bears E. and W.
80.00	Set a malpais stone 18 x 8 x 6 ins. 12 ins. in the ground for cor. of secs. 17, 18, 19 and 20, marked with 3 notches on S. and 5 notches on E. edges; from which

Subdivision of Tp. 8 N. Rg. 5 W.

Chains	<p>A paloverde 5 ins. diam., bears N. $69\frac{1}{2}^{\circ}$ E. 44 lks. dist., marked T8NR5WS17BT. A paloverde 5 ins. diam., bears S. 71° E. 70 lks. dist., marked T8NR5WS20BT. A paloverde 6 ins. diam., bears S. 60° W. 91 lks. dist., marked T8NR5WS19BT. A paloverde 6 ins. diam., bears N. $76\frac{3}{4}^{\circ}$ W. 88 lks. dist., marked T8NR5WS18BT.</p> <p>Land, rolling. Soil, stony and gravelly; 2nd. and 3rd. rate. Timber, paloverde. Undergrowth, paloverde, mesquite and greasewood. Land covered with dense undergrowth 80.00 chs.</p>
40.00	S. $89^{\circ} 59'$ E. on a random line bet. secs. 17 and 20
80.04	Set temp. $\frac{1}{4}$ sec. cor. Intersect N. and S. line 7 lks. S. of the cor. of secs. 16, 17, 20 and 21 Thence I run
2.00	S. $89^{\circ} 58'$ W. on a true line bet. secs. 17 and 20
6.00	Over rolling land, through dense brush. Ridge bears N. W. and S. E.
9.00	Top of bluff
24.00	Across Martinez Wash course S. W.
30.60	Leave Martinez Wash. Ridge bears N. E. and S. W.
35.00	Cross drain 6 lks. wide course S. E.
38.50	Ridge bears N. W. and S. E.
40.02	Set a malpais stone 24 x 12 x 5 ins. 18 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. 23° E. 30 lks. dist., marked $\frac{1}{4}$ S17BT A paloverde 7 ins. diam., bears S. $82\frac{1}{4}^{\circ}$ E. 52 lks. dist., marked $\frac{1}{4}$ S20BT
53.00	Cross wash 40 lks. wide course S. E.
80.04	The cor. of secs. 17, 18, 19 and 20. Land, rolling. Soil, gravelly and stony; 3rd. and rth. rate. Timber, paloverde. Undergrowth, paloverde, mesquite and greasewood. Land covered with dense undergrowth, 80.04 chs. September 10: At this cor. I set off $4^{\circ} 59'$ N. on the decl. arc: and observe the sun on the meridian at noon, the resulting lat. is $34^{\circ} 01\frac{1}{2}'$ N.
40.00	S. $89^{\circ} 57'$ W. on a random line bet. secs. 18 and 19.
80.06	Set temp. $\frac{1}{4}$ sec. cor. Intersect W. bdy. of Tp. 9 lks. S. of the cor. of secs. 13, 18, 19 and 24. Thence I run
3.00	S. $89^{\circ} 59'$ E. on a true line bet. secs. 18 and 19.
13.00	Over rolling land, through dense brush.
31.65	Cross telephone line bears N. and S.
32.25	Cross telegraph line bears N. and S.
34.00	Cross S. F. P. & P. Ry. bears N. and S.
35.00	Cross wash 50 lks. wide course S.
35.35	Cross wash 20 lks. wide course S.
40.06	Cross road bears N. and S. 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; and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
45.50	Cross drain 5 lks. wide course S.
54.00	Cross wash 50 lks. wide course S.

Subdivision of Twp. 8 N., Rg. 5 W.

Chains.	
55.50	Cross road bears N. and S.
70.75	Cross drain 5 lks. wide course S.
80.06	The cor. of secs. 17, 18, 19 and 20. Land, rolling. Soil, stony and gravelly; 3rd. and 4th. rate. Timber, paloverde. Undergrowth, paloverde., mesquite and greasewood. Land covered with dense undergrowth 80.06 chs. September 10, 1909.
	<hr/>
	September 11; At 7h. 00m. a.m., l.m.t., I set off 34° oll' N. on the lat. arc: 4° 42' N. on the decl. arc: and determine a meridian with the solar at the cor. of secs. 17, 18, 19 and 20 Thence I run N. 0° 03' W. bet. secs. 17 and 18 Over rolling land through dense brush. Cross drain 5 lks. wide course E. Ridge bears E. and W. Cross drain 6 lks. wide course E. Cross wash 30 lks. wide course E. Ridge beras E. and W. Cross wash 30 lks. wide course E. Cross ridge bears E. and W. Point for ¼ sec. cor. falls in wash 20 lks. wide course S. E. 41.00 Set a malpais stone 18 x 10 x 8 ins. 12 ins. in the ground for Witness cor. to ¼ sec. cor., marked W C ¼ on W. face; from which A paloverde 5 ins. diam., bears N. 67½° E. 79 lks. dist., marked WC¼S17BT. A paloverde 6 ins. diam., bears N. 68½° W. 24 lks. dist., marked WC¼S18BT. 47.00 Ridge bears E. and W. 64.80 Cross drain 6 lks. wide course E. 80.00 Set a malpais stone 20 x 12 x 8 ins. 15 ins. in the ground for cor. of secs. 7, 8, 17 and 18, marked with 4 notches on S. and 5 notches on E. edges; from which A paloverde 5 ins. diam., bears N. 6¼° E. 43 lks. dist., marked T8NR5WS8BT. A paloverde 4 ins. diam., bears S. 73° E. 37 lks. dist., marked T8NR5WS17BT. A paloverde 5 ins. diam., bears S 62¼° W. 115 lks. dist., marked T8NR5WS18BT. A paloverde 5 ins. diam., bears N. 24½° W. 79 lks. dist., marked T8NR5WS7BT. Land, rolling. Soil, gravelly and stony; 3rd. and 4th. rate. Timber, paloverde. Undergrowth, paloverde, mesquite and greasewood. Land covered with dense undergrowth 80.00 chs.
	<hr/>
40.00	N. 89° 58' E. on a random line bet. secs. 8 and 17. Set temp. ¼ sec. cor.
79.98	Intersect N. and S. line 7 lks. N. of the cor. of secs. 8, 9, 16 and 17. Thence I run N. 89° 59' W. on a true line bet. secs. 8 and 17. Over rolling land, through dense brush. 1.00 Cross wash 20 lks. wide course S. 7.00 Cross wash 100 lks. wide course S. E. 23.50 Cross wash 100 lks. wide course S. E. 39.99 Set a malpais stone 20 x 10 x 8 ins. 15 ins. in the ground for ¼ sec. cor., marked ¼ on N. face; dig pits

Subdivision of Tp. 8 N. Rg. 5 W.

Chains	18 x 18 x 12 ins. E. and W. of stone 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high, N. of cor.
40.70	Cross old road bears N. and S.
44.00	Cross wash 20 lks. wide course S.
57.00	Cross drain 6 lks. wide course S. E.
67.00	Cross wash 15 lks. wide course S.
77.00	Cross wash 20 lks. wide course S.
79.98	The cor. of secs. 7, 8, 17 and 18. Land, rolling. Soil, stony and gravelly; 3rd. and 4th. rate. Timber, paloverde. Undergrowth, paloverde, mesquite and greasewood. Land covered with dense undergrowth, 79.98 chs. September 11; At this cor. I set off $4^{\circ} 36'$ N. on the decl. arc; and observe the sun on the meridian at noon the resulting lat. is $34^{\circ} 02\frac{1}{2}'$ N.
	—————
	N. $89^{\circ} 59'$ W. on a random line bet. secs. 7 and 18.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.02	Intersect W. bdy. of Tp. 2 lks. N. of the cor. of secs. 7, 12, 13 and 18. Thence I run East on a true line bet. secs. 7 and 18.
1.30	Cross telephone line bears N. and S.
9.00	Cross drain 6 lks. wide course S.
29.40	Cross wash 25 lks. wide course S.
32.20	Cross road bears N. and S.
34.00	Cross telegraph line bears N. and S.
34.55	Cross S. F. P. & P. Ry. bears N. and S.
40.02	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 paloverde 7 ins. diam., bears S. 58° E. 110 lks. dist., marked $\frac{1}{4}$ S18BT. A paloverde 6 ins. diam., bears N. 56° W. 40 lks. dist., marked $\frac{1}{4}$ S7BT.
49.20	Cross wash 20 lks. wide course S.
56.22	Cross wash 20 lks. wide course S.
70.50	Cross wash 20 lks. wide course S.
80.02	The cor. of secs. 7, 8, 17 and 18. Land, rolling. Soil, gravelly and stony; 3rd. and 4th. rate. Timber, paloverde. Undergrowth, paloverde, greasewood and mesquite. Land covered with dense undergrowth 80.02 chs.
	September 11, 1909.
	—————
	September 12: At 7h. 00m., a.m., 1.m.t., I set off $34^{\circ} 02\frac{1}{2}'$ N. on the lat. arc; $4^{\circ} 19\frac{1}{2}'$ N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 7, 8, 17 and 18. Thence I run N. $0^{\circ} 02'$ W. bet. secs. 7 and 8/ Over rolling land through dense underbrush.
15.50	Cross drain 5 lks. wide course W.
21.60	Cross drain 6 lks. wide course W.
30.35	Cross draw 60 lks. wide course W.
40.00	Set a malpais stone 18 x 12 x 12 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 S. 62° E. 113 lks. dist., marked $\frac{1}{4}$ S8BT. A paloverde 5 ins. diam., bears N. $46\frac{1}{2}^{\circ}$ W. 15 lks. dist., marked $\frac{1}{4}$ S7BT.
76.50	Cross wash 30 lks. wide course S. E.

Subdivision of Tp. 8 N. Rg. 5 W.

Chains. 80.00	Set a malpais stone 18 x 8 x 6 ins. 12 ins. in the ground for cor. of secs. 5, 6, 7 and 8, marked with 5 notches on S. and E. edges; and raise a mound of stone 3 ft. base 1½ ft. high, W. of cor. Pits impracticable. Land, rolling.. Soil, gravelly and stony; 3rd. and 4th. rate. Timber, paloverde. Undergrowth, mesquite, greasewood and paloverde. Land coverde with dense undergrowth 80.00 chs.
40.00 80.10	S, 89° 59' E. on a random line bet. secs. 5 and 8. Set temp. ¼ sec. cor. Intersect N. and S. line 7 lks. S. of the cor. of secs. 4, 5, 8 and 9. Thence I run S. 89° 58' W. on a true line bet. secs. 5 and 8. Over rolling land through dense brush.
4.20 14.50 40.05	Cross drain 8 lks. wide course S. Cross drain 7 lks. wide course S. Set a malpais stone 18 x 12 x 12 ins. 12 ins. in the ground for ¼ sec. cor., marked ¼ on N. face; from which A mesquite 6 ins. diam., bears S. 74° W. 42 lks. dist., marked ¼ S8BT.
41.00 62.50 68.00 72.00 76.25 79.75 80.10	No other tree available. Raise a mound of stone 3 ft. base 1½ ft. high, N. of cor. Pits impracticable. Cross wash 100 lks. wide course S. E. Cross road bears N. W. and S. E. Cross drain 6 lks. wide course S. Cross drain 5 lks. wide course S. Cross road bears N. W. and S. E. 72.7 Cross wash 15 lks. wide course S. E. The cor. of secs. 5, 6, 7, and 8, Land, rolling. Soil, gravelly and stony; 3rd. and 4th. rate. Timber, paloverde. Undergrowth, paloverde, mesquite and greasewood. Land covered with dense undergrowth, 80.10 chs. September 12; At this cor. I set off 4° 13½' N. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is 34° 03½' N.
40.00 79.98	West on a random line bet. secs. 6 and 7 Set temp. ¼ sec. cor. Intersect W. bdy. of Tp. 5 lks. N. of ^{cor. of} secs. 1, 6, 7 and 12. Thence I run
15.19 15.40 15.91 33.80 39.98	N. 89° 58' E. on a true line bet. secs. 6 and 7. Over rolling land through dense brush. Cross road bears N. and S. Cross telegraph line bears N. and S. Cross S. F. P. & P. Ry. bears N. and S. Cross drain 5 lks. wide course S.
79.98	Set a malpais stone 20 x 10 x 8 ins. 15 ins. in the ground for ¼ sec. cor., marked ¼ on N. face; dig pits 18 x 18 x 12 ins. E. and W. of stone 3 ft. dist., and raise a mound of earth 3½ ft. base 1½ ft. high, N. of cor. The cor. of secs. 5, 6, 7 and 8. Land, rolling. Soil, gravelly and stony; 3rd. and 4th. rate. Timber, paloverde. Undergrowth, paloverde, mesquite, and greasewood. Land covered with dense undergrowth 79.98 chs.

Subdivision of Tp. 8 N. Rg. 5 W.

Chains.	NO 21 ¹ / ₂ Wet. secs. 5 and 6. Over rolling land through dense brush.
0.25	Cross wash 15 lks. wide course S. E.
2.45	Cross road bears N. W. and S. E.
7.10	Cross drain 6 lks. wide course S. E.
27.70	Cross road bears N. W. and S. E.
39.80	Cross drain 5 lks. wide course S. E.
40.00	Set a granite stone 18 x 12 x 10 ins. 12 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; from which A mesquite 10 ins. diam., bears N. 31° E. 114 lks. dist., marked $\frac{1}{4}$ S5BT A paloverde 7 ins. diam., bears S. 23 $\frac{1}{4}$ ° W. 71 lks. dist., marked $\frac{1}{4}$ S6BT
42.00	Cross drain 5 lks. wide course S. E.
47.00	Cross drain 5 lks. wide course E.
57.20	Cross wash 40 lks. wide course S. E.
71.00	Cross wash 25 lks. wide course S. E.
71.50	Set a malpais stone 24 x 10 x 6 ins. 18 ins. in the ground for witness cor. to closing cor. of secs. 5 and 6, marked WCCC on S. with 5 grooves on E. and 1 groove on W. faces; from which A mesquite 4 ins. diam., bears S. 37° W. 140 lks. dist., marked WCCCT8NR5WS6BT. No other tree available. Dig pits 24 x 18 x 12 ins. crosswise on each line E. and W. 3 ft. and S. of stone 7 ft. dist.; and raise a mound of earth 4 ft. base 2 ft. high S. of cor.
72.23	Intersect 2nd. Standard Parallel North 179 lks. N. 89° 52' W. of the standard cor. of secs. 31 and 32. This point falls in wash 40 lks. wide course S. E. Land, rolling. Soil, gravelly and stony; 3rd. and 4th. rate. Timber, paloverde. Undergrowth, paloverde, mesquite and greasewood. Land covered with dense undergrowth, 72.23 chs.

September 12, 1909.

GENERAL DESCRIPTION.

The eastern portion of this township is mountainous and the rest of the township is hilly and rolling. The soil is gravelly and stony excepting along the Hassayampa River where the soil is sandy loam and very fertile. There is no timber in the township excepting paloverde which is of no value excepting for fuel. Copper was found in secs. 13 and 24. The Hassayampa River runs through the eastern part of the township.

There are two settlers in sec 35 and one in secs 23. & 26

John P. Hesse
U. S. Deputy Surveyor.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

1852

LIST OF NAMES.

BOOK 2209

A list of the names of the individuals employed by

John P. Hesse

....., United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of *the subdivision lines of T^p. 8 N. R^y. 5 W.* showing the respective capacities in which they acted:

Fred Kest, Chairman.

Fred W. Rodolf, Chairman.

....., Moundman.

....., Moundman.

....., Axman.

C. Kaufman, Axman.

F. W. Schwalbe, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted

John P. Hesse

....., United States Deputy Surveyor, in surveying all those parts or portions of the *subdivision lines of T^p. 8 N. R^y. 5 W.*

..... 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*

Fred Kest, Chairman.

Fred W. Rodolf, Chairman.

....., Moundman.

....., Moundman.

....., Axman.

C. Kaufman, Axman.

F. W. Schwalbe, Flagman.

Subscribed and sworn to before me this *12th* day of *September 1909*, 189

John P. Hesse
U.S. Dep. Surveyor



No notary available without great expense and loss of time

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

BOOK 2209

I, John P. Hesse, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Frank S. Ingalls United States Surveyor General for Arizona, bearing date of the 4th day of June 1909, 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 subdivision lines of Twp. 8 N. Rg. 5 W.

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.

John P. Hesse
United States Deputy Surveyor.

Subscribed by said John P. Hesse, and sworn to before me }
this ninth day of May, 1910.

Frank S. Ingalls
U.S. Surveyor General
for Arizona



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Ariz June 17, 189-1910.

The foregoing field notes of the survey of the subdivision lines of Twp. 8 N. Rg. 5 W. of the Gila and Salt River Base and Meridian, Arizona

executed by John P. Hesse, U.S. Deputy Surveyor under his contract No. 158, dated June 4, 1909, 189, 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.