

Book E.

2113

BOOK 2113

# FIELD NOTES

OF THE SURVEY OF THE

2113

2113

North, East and West boundaries of  
Sp. 9 N., R 13 E. and North boundary  
of Sp. 9 N., R. 14 E.

2113

Of the Gila & Salt River Basins Meridian,  
Arizona

AS SURVEYED BY

Edgar C. Dietrich, United States Deputy Surveyor,

Under his Contract No. 140, dated May 2, 1906

Survey commenced August 1st, 1907

Survey completed August 9th, 1907

2113

2113

2113

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NAMES AND DUTIES OF ASSISTANTS.

James B. Boley -	John Harding (Culin)	} Chairmen
H. P. Steele -	Fred Smith	
John M. Trayer -		Moundmen
A. H. Sanford		axman
L. C. Braun		Flagman

BOOK 2113

Book No. 2113

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Township 9 North, Range 14 East

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WE, James B. Boley - John Harding Culin - W.P. Steele & Fred Smith  
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of N. E. & W. bdy of Tp. 9 N., R. 13 E., and N. bdy. Tp. 9 N., R. 14 E.

James B. Boley John Harding Culin Chairman.  
W.P. Steele Fred Smith Chairman.

Subscribed and sworn to before me this 10<sup>th</sup>  
day of July, 1907



Edgar E. Dietrich  
U.S. Deputy Surveyor  
no Notary available

I, John M. Frayer  
do solemnly swear that I 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 N. E. & W. bdy. Tp. 9 N., R. 13 E., and N. bdy. Tp. 9 N., R. 14 E.

John M. Frayer Moundman.  
John M. Frayer Moundman.

Subscribed and sworn to before me this 10<sup>th</sup>  
day of July, 1907



Edgar E. Dietrich  
U.S. Deputy Surveyor  
no Notary available

I, A. H. Sanford  
do solemnly swear that I will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of N. E. & W. bdy. Tp. 9 N., R. 13 E., & N. bdy. Tp. 9 N., R. 14 E.

A H Sanford Axman.  
A H Sanford Axman.

Subscribed and sworn to before me this 10<sup>th</sup>  
day of July, 1907



Edgar E. Dietrich  
U.S. Deputy Surveyor  
no Notary available

I, L. C. Braun  
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 N. E. & W. bdy. Tp. 9 N., R. 13 E., and N. bdy. Tp. 9 N., R. 14 E.

L. C. Braun Flagman.

Subscribed and sworn to before me this 10<sup>th</sup>  
day of July, 1907



Edgar E. Dietrich  
U.S. Deputy Surveyor  
no Notary available

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West Boundary of Township 9 North, Range 13 East.

chains

Survey commenced August 1st, 1907, and executed with a Queen light mountain transit, with Burts' solar attachment No. 4607. 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 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, July 15, 1907.

I examine the adjustments of the transit, and correct the level and collimation errors, 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 made on Polaris, I proceed as follows:-

I begin at the Standard cor. of Tps. 9 North, Rs. 12 and 13 E., latitude 34° 04' 20" N., longitude 111° 03' 05" W., and set off 34° 04' N. on the lat. arc, and 18° 09' N. on the decl. arc, and at 5 h. p.m., l.m.t., determine with the solar a meridian and mark a point thereof, on a stone firmly set in the ground, 5.00 chs. N. of the cor.

At 10h 52' p.m., by my watch, which is correct, I observe Polaris at eastern elongation, in accordance with the 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 1, 1907.

August 2, 1907. At 6 a.m. l.m.t., I lay off the azimuth of Polaris 1° 26' to the west, and mark the meridian thus determined, by cutting a small groove in the stone set last night, on which the meridian coincides with the meridian determined by the solar.

At 8h 30m a.m., l.m.t., I set off 34° 04' N. on the lat. arc, 17° 58' 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, which coincides with the meridian established by Polaris observation.

The magnetic bearing of the true meridian, at 8h. 30m a.m. is N. 14° 30' W.; the angle thus determined gives the magnetic declination 14° 30' E.

Upon the completion by U. S. Deputy Surveyor W. L. Marcy of the 3rd Guide Meridian thro Tps. 5, 6, 7, 8, N., Rs. 12 and 13 E., 2nd Parallel South, Rs. 13, 14, 15 E., which he did at my urgent request, prior to the approval of his contract No. 147, so as to enable me to proceed with my work; I begin at the Standard cor. of Tps. 9 N., Rs. 12 and 13 E. and run, (as recently established by Deputy Marcy) North, bet. secs. 31 and 36 on the West Bdy. of Tp. Over mountainous land, ascending through scattering timber.

- 4.30 Spur, extends W., begin steep descent through heavy timber and oak brush.
- 21.40 Gulch, 1.00 ch. wide, course NW, running water in gulch. Begin steep ascent.
- 27.00 Leave heavy timber, extends NW. and SE.
- 37.00 Spur extends W., descend.

## West Boundary of Township 9 North, Range 13 East.

chains	
40.00	Set a quartzite porphyry stone, 21 X 8 X 8 ins., 16 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, from which An oak, 9 ins. diam., brs. N. $6\frac{1}{2}^{\circ}$ E., 79 lks. dist., marked $\frac{1}{4}$ S 31 B T. An oak, 30 ins. diam., brs. S. $37\frac{1}{2}^{\circ}$ W., 44 lks. dist., marked $\frac{1}{4}$ S 36 B T.
50.70	Gulch, 25 lks. wide, course W., leave timber, ascend.
76.00	Re-enter timber, extends E. and W.
79.65	Top of sharp, rocky ridge, 600 feet above gulch, extends E. and W. As point for cor. of secs. 25, 30, 31 and 36 is impracticable to establish, I mark a sandstone in place, 30 X 20 X 12 ins. above ground, for witness cor. to cor. of secs. 25, 30, 31 and 36, with a cross (X), and W C, with 1 groove S. and 5 grooves N. of cross, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of stone. Pits impracticable. An oak, 10 ins. diam., brs. S. $41\frac{1}{2}^{\circ}$ E., 97 lks. dist., marked T 9 N R 13 E S 31 W C B T.
80.00	No other trees available. Point for cor. of secs. 25, 30, 31 and 36 falls on edge of bluff in an insecure place. Land, mountainous. Soil, gravelly and stony, 3rd and 4th rate. Timber, oak; undergrowth; oak, mesquite, teaota, cacti. Mountainous land, exceptionally difficult to survey, 80.00 chs.
	----- August 2; At noon, I set off $17^{\circ} 56'$ N. on the decl. arc, and observe the sun on the meridian; the resulting lat. is $34^{\circ} 05'$ N. North, from cor. point, bet. secs. 25 and 30. Descending abruptly 40 ft., thence steep descent through oak and juniper timber and dense brush to Little Walnut Creek Canyon, 500 feet below top of ridge, 80 lks. wide, course W., running water in canyon; leave dense brush, ascend steeply.
18.00	Ridge, 450 feet above canyon, extends E. and W., descend.
36.00	
40.00	Set a porphyry stone, 21 X 8 X 5 ins., 16 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. An oak, 20 ins. diam., brs. S. $48\frac{1}{2}^{\circ}$ E., 149 lks. dist., marked $\frac{1}{4}$ S 30 B T.
57.30	No other tree available.
73.00	Gulch, 40 lks. wide, course W., ascend. Old road, from Spring Creek to Pleasant Valley, Brs. E. and W.
77.60	Mail trail, from Young to Payson, brs. E. and W.
79.00	Gulch, 15 lks. wide, course SSE.
80.00	Set a porphyry stone, 18 X 10 X 5 ins., 12 ins. in the ground, for cor. of secs. 19, 24, 25 and 30, marked with 2 notches on the S. and 4 notches on the N. edge, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, mountainous, Soil, gravelly, stony and rocky; 3rd and 4th rate. Timber, oak and juniper; undergrowth, oak, manzanita, mesquite. Mountainous land, covered with dense undrgrowth, exceptionally difficult to survey, 80.00 chs. August 2, 1907.
	-----

West Boundary of Township 9 North, Range 13 East

chains

August 3, 1907. At 7h a.m., l.m.t., I set off 17° 45' N. on the decl. arc and 34° 06' N. on the lat. arc, and determine a true meridian with the solar at the cor. of secs. 19, 24, 25 and 30.

Thence I run, North, bet. secs. 19 and 24.

Over mountainous land, ascending through scattering timber.

11.40

Top of ridge, extends NW. and SE., descend.

19.35

Trail from Pleasant Valley to Spring Creek, brs. NW. and SE., set a point on line.

24.50

Set a sandstone, 18 X 14 X 6 ins., 12 ins. in the ground, for witness cor. to 1/4 sec. cor., marked W C 1/4 on W. face, from which

An oak, 18 ins. diam., brs. S. 55° E. 117 lks. dist., marked W C 1/4 S 19 B T.

A juniper, 8 ins. diam., brs. N. 67° W., 137 Lks. dist., marked W C 1/4 S 24 B T.

25.00

Edge of Walnut Creek Canyon, 600 feet deep, course NW.

40.00

Point for 1/4 sec. cor. falls in canyon.

To determine the distance across I set a flag on line on North side; return to point 19.35 previously set on line, then measure a base, west, 20.00 chs., to a point from which flag brs. N. 23° 40' E.; from the flag the west end of the base brs. S. 23° 40' W., therefore the dist. is tangent 66° 20' X base, or 2.28167 X 20 which is 45.63 chs., which, added to the 19.35 chs. gives

64.98

To top of bluff on N. side of canyon; enter mesa.

80.00

Set a quartzite stone, 21 X 8 X 8 ins., 16 ins. in the ground, for cor. of secs. 13, 18, 19 and 24, marked with 3 notches on the N. and S. edges, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable.

Land, mountainous and level.

Soil, gravelly and stony and rocky; 3rd and 4th rate.

Timber, oak and juniper; undergrowth, oak and manzanita.

Mountainous land, 64.98 chs.

August 3, 1907. At noon, I set off 17° 41' N. on the decl. arc, and observe the sun on the meridian, the resulting lat. is 34° 07' N.

North, bet. secs. 13 and 18.

Over mesa.

12.00

Ascend, brs. E. and W.

36.00

Enter scattering timber, extends E. and W.

40.00

Set a porphyry stone, 24 X 12 X 8 ins., 18 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable.

53.60

Top of W. slope of ridge, 1800 feet above canyon, Extends N. and S.

57.00

Enter dense oak brush, extends NW. and SE.

74.00

Leave dense brush, extends NW. and SE.; descend.

79.00

Dry wash, 15 lks. wide, course W., ascend.

80.00

Set a quartz stone, 18 X 8 X 6 ins., 12 ins. in the ground, for cor. of secs. 7, 12, 13 and 18, marked with 4 notches on the S. and 2 notches on the N., and raise a mound of stone, 2 ft. high, 1 1/2 ft. base, W. of cor. Pits impracticable.

An oak, 16 ins. diam., brs. S. 40° E., 75 lks. dist., marked T 9 N R 13 E S 18 B T.

No other trees available.

Land, mountainous and level.

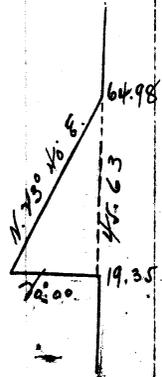
Soil, gravelly and stony; 3rd and 4th rate.

Timber, oak and juniper; undergrowth, oak and manzanita.

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

68.00 chs.

August 3, 1907.



## West Boundary of Township 9 North, Range 13 East.

chains	
	August 4, 1907. At 7h a.m., l.m.t., I set off 17° 29' N. on the decl. arc, and 34° 08' N. on the lat. arc, and determine a true meridian with the solar at the cor. of secs. 7, 12, 13 and 18.
	Thence I run, North, bet. secs. 7 and 12. Over mountainous land, through scattering timber.
9.00	Spur, extends E. and W.; descend.
17.90	Gulch, 20 lks. wide, course W.; ascend.
30.00	Top of ridge, extends N. and S., thence along top of ridge, through dense brush.
40.00	Set a sandstone, 18 X 12 X 5 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, from which A pinon, 13 ins. diam., brs. S. 49° E., 53 lks. dist., marked $\frac{1}{4}$ S 7 B T. A juniper, 7 ins. diam., brs. S. 76° W., 27 lks. dist., marked $\frac{1}{4}$ S 12 B T.
58.00	Descend.
80.00	Set a sandstone, 24 X 10 X 6 ins., 18 ins. in the ground, for cor. of secs. 1, 6, 7 and 12, marked with 5 notches on the S. and 1 notch on the N. edge, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. A juniper, 7 ins. diam., brs. N. 49° E., 90 lks. dist., marked T 9 N R 13 E S 6 B T. An oak, 9 ins. diam., brs. S. 64° W., 88 lks. dist., marked T 9 N R 12 E S 12 B T. A juniper, 14 ins. diam., brs. N. 28 $\frac{1}{2}$ ° W., 215 lks. dist., marked T 9 N R 12 E S 1 B T. No other tree available. Land, mountainous. Soil, gravelly, stony and rocky; 3rd and 4th rate. Timber, oak, juniper, pinon and pine; undergrowth, oak, and manzanita. Mountainous land, covered with dense undergrowth, exceptionally difficult to survey, 80.00 chs.
	August 4, 1907. At noon, I set off 17° 25' N. on the decl. arc and observe the sun on the meridian; the resulting lat. is 34° 09' N.
	----- North, bet. secs. 1 and 6. Descending through heavy timber and dense brush, Leave heavy timber, brs. NE. and SW.
9.60	Gulch, 60 lks. wide, course NW., ascend.
38.40	Set a sandstone, 18 X 6 X 6 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. An oak, 10 ins. diam., brs. S. 22° W., 154 lks. dist., marked $\frac{1}{4}$ S 1 B T.
40.00	Spur, extends W.; descend.
46.80	Gulch, 30 lks. wide, course W., ascend.
53.70	Spur, extends W., descend.
59.00	Gulch, 20 lks. wide, course W., leave dense brush; ascend.
65.00	Set a quartzite porphyry stone, 21 X 8 X 8 ins., 16 ins. in the ground, for cor. of Tps. 9 and 10 N., Rs. 12 and 13 E., marked with 6 notches on each edge, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, S. of cor. Pits impracticable. A juniper, 18 ins. diam., brs. S. 75° W., 230 lks. dist., marked T 9 N R 12 E S 1 B T.
80.00	Land, mountainous. Soil, gravelly, stony and rocky, 3rd and 4th rate. Timber, oak, juniper, pine; undergrowth, oak, manzanita. Mountainous land, covered with dense undergrowth, exceptionally difficult to survey, 80.00 chs. August 4, 1907. -----

East Boundary of Township 9 North, Range 13 East.

chains	At the standard cor. of Tps. 9 N., Rs. 13 and 14 E., marked and witnessed as described by the Surveyor General, I set off on August 5, 1907, 17° 13' N. on the decl. arc, and 34° 04' N. on the lat. arc, and determine a true meridian with the solar.
	Thence I run,
	North, bet. secs. 31 and 36.
2.60	Top of ridge, extends ENE, and WSW.
5.30	Trail from Pleasant Valley to Spring Creek, brs. NE. and SW.
8.00	Descend; brs. NE. and SW.
10.00	Enter heavy timber, brs. NW. and SE.
14.00	Dry wash, 15 lks. wide, course W., leave dense brush. ascend along W. slope of ridge, brs. SSE. and NNW.
24.25	Dry wash, 15 lks. wide, course W.
33.40	Top of slope; descend.
35.64	Wire fence, brs. NW. and SE.
40.00	Set a silica stone, 18 X 12 X 7 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, from which
	An oak, 7 ins. diam., brs. N. 89° E., 27 lks. dist. marked $\frac{1}{4}$ S 31 B T.
	A pine, 20 ins. diam., brs. S. 78° W., 76 lks. dist., marked $\frac{1}{4}$ S 36 B T.
51.70	Dry wash, 40 lks. wide, course NE. Enter bottom.
61.30	Leave bottom, enter rolling land.
80.00	Set a silicate stone, 24 X 8 X 8 ins., 18 ins. in the ground, for cor. of secs. 25, 30, 31 and 36, marked with 1 notch on the S. and 5 notches on the N. edge, from which
	An oak, 7 ins. diam., brs. N. 67 $\frac{1}{2}$ ° E., 211 lks. dist., marked T 9 N R 14 E S 30 B T.
	An oak, 12 ins. diam., brs. S. 22° E., 198 lks. dist., marked T 9 N R 14 E S 31 B T.
	An oak, 7 ins. diam., brs. S. 38° W., 260 lks. dist., marked T 9 N R 13 E S 36 B T.
	An oak, 20 ins. diam., brs. N. 4 $\frac{1}{2}$ ° W., 110 lks. dist., marked T 9 N R 13 E S 25 B T.
	Land, mountainous, rolling and level.
	Soil, gravelly, stony and rocky; 3rd and 4th rate.
	Timber, oak, juniper and pine; undergrowth, oak, pine, manzanita and mesquite.
	Mountainous land, heavily timbered or covered with dense undergrowth, exceptionally difficult to survey, 80.00 chs.
	-----
	North, bet. secs. 25 and 30.
	Descending over rolling land, through oak timber.
3.00	Alongside of old stone foundation, east of line.
7.00	Leave old stone foundation
8.00	Leave oak timber, extends NE. and SW.
11.70	Dry wash, 20 lks. wide, course NE. Enter level land.
21.00	Dry wash, 30 lks. wide, course NE.
29.60	Wire fence, extends E. and W.
39.00	Enter corn field, extends E. and W.
40.00	Set a granite stone, 18 X 8 X 6 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and dig pits, 18 X 18 X 12 ins., N. and S. of stone, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
44.60	Barn, Brs. W. 8.00 chs. dist.
44.77	Wire fence, brs. E. and W. Leave field.
49.00	George Hubbard's ranch house, brs. W. 7.00 chs. dist.
52.50	Dry wash, 60 lks. wide, course E.
60.00	Corral, brs. W. 12.00 chs. dist.
61.50	Dry wash, 30 lks. wide, course SE.
69.50	Wire fence, brs. E. and W.
70.55	Old road, brs. E. and W.

East Boundary of Township 9 North, Range 13 East.

chains	Trail from Young to Spring Creek, brs. ENE. and WSW.
78.50	Set a silicate stone, 24 X 6 X 5 ins., 18 ins. in the ground, for cor. of secs. 19, 24, 25 X 30, marked with 2 notches on the S., and 4 notches on the N. edge; dig pits, 18 X 18 X 12 ins., in each sec., 5 1/2 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor.
80.00	land, level and gently rolling. Soil, rich and gravelly loam, 1st, 2nd and 3rd rate. Timber, oak and juniper; undergrowth, pine and mesquite.
	-----
	North, bet. secs. 19 and 24.
	Over nearly level land.
22.00	Begin ascent over rolling land.
22.35	Old road from Spring Creek to Pleasant Valley, and mail trail from Young to Payson, brs. E and W.
40.00	Set a silicate stone, 18 X 6 X 6 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face; dig pits, 18 X 18 X 12 ins., N. and S., of stone, 3 ft. dist., and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.
41.75	Dry wash, 40 lks. wide, course SE.
66.70	Dry wash, 15 lks. wide, course SE.
76.25	Dry wash, 15 lks. wide, course SE.
80.00	Set a silicate stone, 21 X 8 X 6 ins., 16 ins. in the ground, for cor. of secs 13, 18, 19 and 24, marked with 3 notches on N. and S. edges; dig pits, 18 X 18 X 12 ins. in each sec., 5 1/2 ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. An oak, 9 ins. diam., brs. N. 71 1/2° E., 305 lks. dist., marked T 9 N R 14 E S 18 B T. An oak, 24 ins. diam., brs. S. 77 3/4° E., 490 lks. dist., marked T 9 N R 14 E S 19 B T. An oak, 12 lks. diam., brs. N. 55° W., 365 lks. dist., marked T 9 N R 13 E S 13 B T. No other tree available. Land, rolling and nearly level. Soil, rich and gravelly loam. 1st, 2nd and 3rd rate. Timber, scattering juniper and oak; undergrowth, oak, pine and mesquite. August 5: At noon, I set off 17° 09' N. on the decl. arc, and observe the sun on the meridian; the resulting lat. is 34° 07' N.
	-----
	North, bet. secs. 13 and 18.
	Over rolling land, through scattering oak and juniper timber.
8.40	Dry wash, 30 lks. wide, course SE.
12.00	Begin gradual ascent.
40.00	Set a granite stone, 18 X 8 X 8 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face from which An oak, 18 ins. diam. brs. N. 27 3/4° E., 147 lks. dist., marked 1/4 S 18 B T. An oak, 13 ins. diam., brs. N 56 1/2° W., 14 lks. dist., marked 1/4 S 13 B T.
60.35	Dry wash, 30 lks. wide, course SE., Ascend S. slope of ridge.
80.00	Set a sandstone, 24 X 8 X 6 ins., in a mound of stone, for cor. of secs. 7, 12, 13 and 18, marked with 4 notches on the S. and 2 notches on the N. edge, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable. A juniper, 18 ins. diam., brs. N. 31° W., 252 lks dist., marked T 9 N R 13 E S 12 B T. No other trees available.

East Boundary of Township 9 North, Range 13 East.

chains

Land, rolling and mountainous.  
Soil, gravelly loam and stony; 2nd, 3rd and 4th rate.  
Timber, scattering oak and juniper; undergrowth,  
oak and pine.  
Mountainous land, 19.65 chs.

-----  
North, bet. secs. 7 and 12.  
Over mountainous land, ascending.

8.00 Enter heavy timber, brs. E. and W., ascend steeper  
slope over granite rocks.

18.00 Top of ridge, 600 ft. above wash, extends E. and W.

21.00 Descend.

26.00 Leave rocks.

36.00 Leave timber; extends E. and W.

40.00 Set a sandstone, 18 X 8 X 6 ins., 12 ins. in the  
ground, for  $\frac{1}{2}$  sec. cor., marked  $\frac{1}{2}$  on W. face, and  
raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high,  
W. of cor. Pits impracticable.

80.00 Set a sandstone, 30 X 8 X 6 ins., 22 ins. in the  
ground, for cor. of secs. 1, 6, 7 and 12, marked with  
5 notches on the S. and 1 notch on the N edge, and  
raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W  
of cor. Pits impracticable.

A juniper, 40 ins. diam., brs. N.  $41\frac{1}{2}^\circ$  W., 225  
lks. dist., marked T 9 N R 13 E S 1 B T.

Land, mountainous.  
Soil, gravelly, stony and rocky; 3rd and 4th rate.  
Timber, oak and juniper; undergrowth, oak and manzanita.  
Mountainous land, and land heavily timbered, 80.00 chs.

-----  
North, bet. secs. 1 and 6.  
Over mountainous land; descending.

5.50 Dry wash, 20 lks. wide, course NE. Thence over  
gently rolling land.

8.00 Enter heavy timber, brs. E. and W.

15.30 Same wash, 20 lks. wide, course NW.

17.00 Leave heavy timber, extends E. and W.

22.45 Trail, brs. NW. and SE., road Brs. NW. and SE.

27.20 Dry wash, 20 lks. wide, course N.W.

40.00 Set a metamorphic stone, 24 X 8 X 8 ins., 18 ins. in  
the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on W. face,  
and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high,  
W. of cor. Pits impracticable.

46.50 Dry wash, 30 lks. wide, course W.

80.00 Set a sandstone, 18 X 8 X 8 ins., 12 ins. in the ground,  
for cor. of Tps. 9 and 10 N., Rs. 13 and 14 E.,  
marked with 6 notches on each edge, and raise a  
mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, S. of cor.  
Pits impracticable.

An oak, 18 ins. diam., brs. N.  $47\frac{1}{2}^\circ$  E., 116 lks.  
dist., marked T 10 N R 13 E S 31 B T.

An oak, 9 ins. diam., brs. S.  $40\frac{1}{2}^\circ$  E., 93 lks.  
dist., marked T 9 N R 14 E S 6 B T.

No other trees available.

Land, gently and heavily rolling.

Soil, gravelly and sandy loam ~~and gravelly~~; 2nd, 3rd  
and 4th rate.

Timber, oak and pine; undergrowth, oak.

Heavily timbered land, 9.00 chs.

August 5, 1907.

-----

## North Boundary Township 9 North, Range 13 East.

chains

August 6, 1907. At 7h. a.m., l.m.t., I set off  $16^{\circ} 57'$  N. on the decl. arc, and  $34^{\circ} 10'$  N. on the lat. arc, and determine a true meridian with the solar at the cor. of Tps. 9 and 10 N., Rs. 13 and 14 E.

Thence I run

West, on a random line, along the N. bdy. of Tp. 9 N., R. 13 E., setting temp  $\frac{1}{4}$  sec. and sec. cors, at intervals of 40.00 chs..

At 320.00 chs. I camp for the night, and on August 7, 1907. At 7h. a.m., l.m.t., I set off  $16^{\circ} 41'$  N. on the decl. arc, and  $34^{\circ} 10'$  N. on the lat. arc, and determine a true meridian with the solar at the 320.00 chs. cor.

Thence I continue on random West, and at 479.03 chs. intersect the cor. of Tps. 9 and 10 N., Rs. 12 and 13 E., which is a quartzite porphyry stone, previously described, at a point 42 lks. S. of cor.

The falling answers to a correction of  $3'$  or  $7'$  lks. per mile, counting from the NE. cor. of Tp.

August 7, 1907.

August 8, 1907. At 7h. a.m., l.m.t., I set off  $16^{\circ} 24'$  N. on the decl. arc, and  $34^{\circ} 10'$  N. on the lat. arc, and determine a true meridian with the solar at the NW. cor. of Tp. 9 N., R. 13 E.

Thence I run,

S.  $89^{\circ} 57'$  E. on a true line bet. secs. 6 and 31. Over mountainous land, descending through scattering timber and brush.

7.75 Dry wash, 15 lks. wide, course S., ascend.  
14.70 Top of S. slope of spur, extends S.  
26.00 Enter dense oak brush;  
31.30 Dry wash, 20 lks. wide, course WSW, ascend steep slope.  
39.03 Set a porphyry-schist stone, 18 X 8 X 5 ins., in a mound of stone, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on N. face, from which

A juniper, 7 ins. diam., brs. S.  $38^{\circ}$  E., 96 lks. dist., marked  $\frac{1}{4}$  S 6 B T.

No other tree available. Raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor. Pits impracticable.

48.50 Ridge, 400 ft. above wash, extends N. and S.; descend.  
61.60 Gulch, 15 lks. wide, course ENE, thence along S. side of same.

71.40 Same gulch, 15 lks. wide, course ESE.

75.20 Same gulch, 20 lks. wide, course ENE.; mouth of gulch from S.; ascent steep slope.

79.03 Point for cor. of secs. 5, 6, 31 and 32, falls on porphyry rock in place, 5 X 3 X 3 ft. above ground, which I mark with a cross (X) for cor. point, 1 notch on W. edge and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft high, W. of cor. Pits impracticable.

A juniper, 20 ins. diam., brs. N.  $59\frac{1}{2}^{\circ}$  W., 46 lks. dist., marked T 9 N R 13 E S 31 B T.

No other trees available.

Land, mountainous.

Soil, gravelly, stony and rocky, 3rd and 4th rate.

Timber, oak, juniper, pine and pinon; undergrowth, oak, and manzanita.

Mountainous land, covered with dense undergrowth, exceptionally difficult to survey, 79.03 chs.

-----  
S.  $89^{\circ} 57'$  E. bet. secs. 5 and 32.

Over mountainous land, ascending through oak and pinon timber and dense brush.

North Boundary Township 9 North, Range 13 East.

chains  
5.25 Top of N. slope of ridge; descend steep slope.  
16.20 Gulch, 30 lks. wide, course N., leave dense brush, ascend over rocks.  
32.00 Top of rim of rock, extends Ne. and SW; ascend.  
40.00 Set a porphyry stone, 18 X 8 X 6 ins., 12 ins. in the ground, for  $\frac{1}{2}$  sec. cor., marked  $\frac{1}{4}$  on N. face, from which  
    A juniper, 30 ins. diam., brs. S.  $30\frac{1}{2}^{\circ}$  E., 69 lks. dist., marked  $\frac{1}{4}$  S 5 B T.  
    An oak, 12 ins. diam., brs. N.  $34\frac{1}{2}^{\circ}$  W., 79 lks. dist., marked  $\frac{1}{4}$  S 32 B T.  
56.00 Ridge, extends N. and S.  
59.00 Descend.  
62.00 Enter dense oak brush, extends N<sup>E</sup>. and SW.  
73.50 Gulch, 20 lks. wide, course ENE; ascend.  
80.00 Top of N. slope of ridge.  
Set a guartz stone, 18 X 8 X 8 ins., 12 ins. in the ground, for cor. of secs. 4, 5, 32 and 33, marked with 2 notches on the W. and 4 notches on the E. edge and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.  
    A pine, 30 ins. diam., brs. S.  $36\frac{3}{4}^{\circ}$  E., 195 lks. dist., marked T 9 N R 13 E S 4 B T.  
    An oak, 14 ins. diam., brs. S.  $61\frac{1}{2}^{\circ}$  W., 122 lks. dist., marked T 9 N R 13 E S 5 B T.  
No other trees available.  
Land, mountainous.  
Soil, gravelly, stony and rocky; 3rd and 4th rate.  
Timber, oak, pine, juniper and pinon; undergrowth, oak and manzanita.  
Mountainous land, covered with dense undergrowth, exceptionally difficult to survey, 80.00 chs.  
August 8; At noon, I set off  $16^{\circ} 20'$  N on the decl. arc, and observe the sun on the meridian; the resulting lat. is  $34^{\circ} 10'$  N.  
-----  
S.  $89^{\circ} 57'$  E., bet. secs. 4 and 33.  
Over mountainous land, through scattering timber and dense brush.  
4.50 Box Canyon, 40 feet deep, 60 lks. wide, course N., leave dense brush and ascend.  
9.70 Ridge, extends N. and S.; descend.  
13.80 Trail from Paulsall's ranch to Young, brs. N. and S.  
15.18 Wire fence, brs. N. and S., Enter heavy timber.  
20.00 J. Paulsall's ranch house, brs. N. 12.00 chs. dist.  
21.10 Dry wash, 15 lks. wide, course N., enter gently rolling land.  
27.60 Dry wash, 15 lks. wide, course N., enter dense oak brush  
31.30 Dry wash, 20 lks. wide, course NNW., ascend.  
40.00 Set a granite stone, 18 X 10 X 6 ins., 12 ins. in the ground, for  $\frac{1}{2}$  sec. cor., marked  $\frac{1}{4}$  on N. face, from which  
    A pine, 10 ins. diam., brs. S.  $39\frac{1}{2}^{\circ}$  W., 66 lks. dist., marked  $\frac{1}{4}$  S 4 B T.  
    An oak, 12 ins. diam., brs. N.  $35\frac{1}{2}^{\circ}$  W., 48 lks. dist., marked  $\frac{1}{4}$  S 33 B T.  
Raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor. Pits impracticable.  
53.40 Ridge, extends N<sup>E</sup>. and SW. Descend.  
57.89 Wire fence, brs. N. and S.  
69.80 Gulch, 20 lks. wide, course N. Ascend.  
75.70 Spur, extends N.; descend.  
80.00 Set a sandstone, 24 X 8 X 8 ins., 18 ins. in the ground, for cor. of secs. 3, 4, 33 and 34, marked with 3 notches on E. and W. edges, from which

North Boundary of Township 9 North, Range 13 East.

chains

An oak, 8 ins. diam., brs. N. 31° E., 67 lks.  
dist., marked T 10 N R 13 E S 33 B T.  
An oak, 12 ins. diam., brs. S. 66° E., 57 lks.  
dist., marked T 9 N R 13 E S 4 B T.  
An oak, 7 ins. diam., brs. S. 27½° W., 56 lks.  
dist., marked T 9 N R 13 E S 5 B T.  
An oak, 14 ins. diam., brs. N. 71½° W., 44 lks.  
dist., marked T 10 N R 13 E S 32 B T.

Land, mountainous and gently rolling.  
Soil, gravelly, stony and rocky; 3rd and 4th rate.  
Timber, oak, pine, juniper and pinon; undergrowth, oak  
and manzanita.  
Mountainous land; heavily timbered and covered with  
dense undergrowth, exceptionally difficult to survey,  
80.00 chs.

-----  
S. 89° 57' E., bet. secs. 3 and 34.  
Over mountainous land, descending through heavy  
timber and dense brush.  
5.00 Gulch, 40 lks. wide, course N., ascend.  
24.00 Spur, extends N., leave dense brush; descend.  
30.00 Head of gulch, course N., ascend.  
39.00 Ridge, extends NE. and SW, leave heavy timber; reenter  
dense brush; descend.  
40.00 Set a quartz stone, 18 X 10 X 7 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.  
A pine, 7 ins. diam., brs. S. 62¾° W., 120 lks.  
dist., marked ¼ S 3 B T.  
50.00 Dry wash, 20 lks. wide, course N., ascend.  
69.00 Spur, extends N., descend.  
75.60 Dry wash, 20 lks. wide, course N., asc end.  
80.00 Set a quartzite stone, 18 X 10 X 6 ins., 12 ins. in the  
ground, for cor. of secs. 2, 3, 34 and 35, marked  
with 4 notches on the W. and 2 notches on the E,  
edge, and raise a mound of stone, 2 ft. base, 1½  
ft. high, W. of cor. Pits impracticable.  
A juniper, 6 ins. diam., brs. S. 31½° E., 57 lks.  
dist., marked T 9 N R 13 E S 2 B T.  
A juniper, 12 ins. diam., brs. N. 56½° W., 67 lks.  
dist., marked T 10 N R 13 E S 34 B T.  
No other trees available.  
Land, mountainous.  
Soil, gravelly, stony and rocky; 3rd and 4th rate.  
Timber, oak, pine, juniper and pinon; undergrowth,  
oak, manzanita and tesotilla.  
Mountainous, or heavily timbered or covered with dense  
undergrowth, exceptionally difficult to survey, 80.00  
chs.

-----  
S. 89° 57' E., bet. secs. 2 and 35.  
Over mountainous land, ascending through oak and pine  
timber and dense brush.  
4.00 Spur, extends NE., descend.  
10.15 Gulch, 15 lks. wide, course NE., ascend.  
17.00 Spur, extends NNE., descend.  
27.80 Gulch, 40 lks. wide, course N., thence NW.  
32.70 Same gulch, 40 lks. wide, course WSW.  
39.00 Same gulch, 40 lks. wide, course WNW; begin steep ascent.  
40.00 Set a quartzite stone, 21 X 10 X 8 ins., 16 ins. in  
the ground, for ¼ sec. cor., marked ¼ on N. face,  
from which  
A pine, 12 ins. diam., brs. S. 51° W., 41 lks.  
dist., marked ¼ S 2 B T.  
An oak, 9 ins. diam., brs. N. 4° W., 142 lks.  
dist., marked ¼ S 35 B T.  
73.00 Top of N. slope of high ridge; descend.  
80.00 Set a sandstone, 18 X 8 X 8 ins., 12 ins. in the  
ground, for cor. of secs. 1, 2, 35 and 36, marked

North Boundary of Township 9 North, Range 13 East.

chains

with 5 notches on the W. and 1 notch on the E. edge, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable.

A juniper, 10 ins. diam., brs. N. 40 3/4° E., 75 lks. dist., marked T 10 N R 13 E S 36 B T

An oak, 12 ins. diam., brs. N. 63 1/4° W., 53 lks. dist., marked T 10 N R 13 E S 35 B T.

No other trees available.

Land, mountainous.

Soil, gravelly, stony and rocky; 3rd and 4th rate.

Timber, oak, juniper, pine and pinon; undergrowth, oak and manzanita.

Mountainous land, covered with dense und ergrowth, exceptionally difficult to survdy, 80.00 chs.

S. 89° 57' E., bet, secs. 1 and 36.

Over mountainous land, through dense manzanita and oak undergrowth.

14.00 Enter heavy timber, brs. N and S.

22.00 South fork of Marsh Creek, 40 lks. wide, course NNW; leave dense brush; thence over rolling land.

40.00 Bet a porphyry stone, 21 X 10 X 8 ins., 16 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor. Pits impracticable.

43.50 Dry wash, 15 lks. wide, course NW.

53.00 Leave heavy timber, extends N. and S.

62.20 Trail, brs. N. and S.

62.90 Old road, brs. N. and S.

80.00 Intersect the cor. of Tps. 9 and 10 N., Rs. 13 and 14 E., which is a sandstone, previously described.

Land, rolling and mountainous.

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

Timber, oak, pine, juniper; undergrowth, oak and manzanita.

Mountainous land, exceptionally difficult to survey, 40.00 chs.

August 8, 1907.

Boundaries of Tp. 9 North, R. 13 East.

Latitudes, Departures and closing errors.

Line Designated	True Bearing	Distance	Latitudes		Departures	
			N.	S.	E.	W.
2nd Stan. Par. N.	West	480 ✓				480 ✓
West Bdy.	North	480 ✓	480 ✓			
North Bdy.	S89°57'E	479.03 ✓		.42	479.03 ✓	
East Bdy	South	480		480		
Convergence						.49
		<del>480</del>	480	.42	479.52	480
			480			479.52
				.42		48

General description.

This township is rolling, hilly and mountainous, well timbered and covered with a good growth of grass. There are four settlers in this township.

Edgar C. Dietrich  
U. S. Deputy Surveyor.

chains

Survey commence August 23, 1907, and executed with a Queen light mountain transit, with Burt's solar attachment No. 4607. 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 latitude and declination arcs.

The instrument was examined, tested on the true meridian at Phoenix, found correct and was approved by the Surveyor General of Arizona, July 15, 1907. I examine the adjustments of the transit, and correct the level and collimation errors, 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 made on Polaris, I proceed as follows:-

I begin at the NW. cor. of Township N. R. 14 E. prev. desc. lat.  $34^{\circ} 09' 32''$  N., longitude  $110^{\circ} 56' 48''$  and set off  $34^{\circ} 10' N.$  on the lat. arc,  $11^{\circ} 37' N.$  on the decl. arc, and at 4h 30m. p.m., l.m.t., determine with the solar a meridian, and mark a point thereof, on a stone, firmly set in the ground 5.00 chs. N. of the cor.

At 9h.26m. p.m., by my watch, which is correct, I observe Polaris at eastern elongation, in accordance with the Manual of instructions, and mark a point in the line thus determined, on a peg driven in the ground, 5.00 chs. N. of my station.

August 23, 1907.

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 August 24, 1907. At 6h. a.m., l.m.t., I lay off the azimuth of Polaris  $1^{\circ} 26'$  to the west, and mark the meridian thus determined, by cutting a small groove in the stone set last night, on which the meridian coincides with the meridian determined by the solar. At 8h 30m. a.m., l.m.t., I set off  $11^{\circ} 23' N.$  of the decl. arc, and  $34^{\circ} 10' N.$  on the lat. arc, and mark a point in the meridian determined with the solar, by a cross on the stone already set 5.00 chs. N. of my station, which coincides with the meridian established by Polaris observation. The magnetic bearing of the true meridian, at 8h.30m a.m., is N.  $14^{\circ} 30' W.$ , the angle thus determined gives the magnetic declination  $14^{\circ} 30' E.$

-----  
 Thence I run, East, on a random line, along the N. Bdy. of Tp. 9 n., R. 14 East, setting temp.  $\frac{1}{4}$  sec. cors., and sec. cors at intervals of 40.00 chs., and at 479.91 chs. intersect the E. Bdy. of Tp. at a point 42 lks. S. of the NE. cor. of the Tp., desc. by Surveyor General. August 26, 1907. At 7h. a.m., l.m.t. I set off  $10^{\circ} 44' N.$  on the decl. arc, and  $34^{\circ} 10' N.$  on the lat. arc, and determine a true meridian with the solar at the N.E. cor. of Tp.

Thence I run, S.  $89^{\circ} 57' W.$ , on the N. Bdy. of Tp. bet. secs. 1 and 36. Over mess land, descending gradually through heavy timber and brush.

16.50

Descend steeply.

24.05

Gulch, 20 lks. wide, course SSW.

36.00

Gulch, 60 lks. wide, course NW., water in tanks; ascend.

13. North Boundary of T<sub>p</sub>. 9 North. R. 14 East.

chains	
40.00	Set a granite stone, 18 X 10 X 5 ins., in mound of stone, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, from which A pine, 26 ins. diam., brs. S. $73\frac{1}{2}^{\circ}$ W., 36 lks. dist., marked $\frac{1}{4}$ S 1 B T. A pine, 30 ins. diam., brs. N. $36\frac{1}{2}^{\circ}$ E., 49 lks. dist., marked $\frac{1}{4}$ S 36 B T.
46.70	Spur, extends N., descend.
55.75	Gulch, 20 lks. wide, course N., ascend.
76.35	Ridge, extends NW. and SE., descend.
77.40	Road from Pleasant Valley to Holbrook, brs. SE. and NW.
80.00	Set a sandstone, 18 X 8 X 8 ins., 12 ins. in the ground, for cor. of secs. 1, 2, 35 and 36, marked with 1 notch on the E. and 5 notches on the W. edges and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor. Pits impracticable. A pine, 24 ins. diam., brs. N. $79\frac{1}{2}^{\circ}$ E., 210 lks. dist., marked T 10 N R 14 E S 36 B T. A pine, 14 ins. diam., brs. S $51^{\circ}$ E. 171 lks. dist., marked T 9 N R 14 E S 1 B T. An oak, 18 ins. diam., brs. S. $24\frac{1}{2}^{\circ}$ W., 35 lks. dist., marked T 9 N R 14 E S 2 B T. A pine, 14 ins. diam., brs. N. $54\frac{1}{2}^{\circ}$ W., 125 lks. dist., marked T 10 N R 14 E S 35 B T.
	Land, mountainous and gently rolling. Soil, gravelly, stony and rocky; 2nd. 3rd and 4th rate Timber, pine, juniper and oak; undergrowth, oak, buck brush and pine. Mountainous land, heavily timbered, exceptionally difficult to survey, 80.00 chs.
	----- S. $89^{\circ} 57'$ W. on a true line, bet. secs. 2 and 35. Over mountainous land, descending through oak and pine timber and brush.
12.00	Foot, brs. N. and S., enter gently rolling land and heavy timber.
18.20	Dry wash, 15 lks. wide, course S.,
25.85	Dry wash, 15 lks. wide, course S., ascend.
32.30	Spur, extends S., descend steep slope.
40.00	Set a porphyry stone 18 X 12 X 5 ins., in mound of stone, 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. A pine, 26 ins. diam., brs. S. $70^{\circ}$ E., 102 lks. dist., marked $\frac{1}{4}$ S 2 B T. An oak, 12 ins. diam., brs. N. $46\frac{1}{2}^{\circ}$ E., 104 lks. dist., marked $\frac{1}{4}$ S 35 B T.
	Leave heavy timber; extends NE and SW.
43.00	Dry wash, 20 lks. wide, course S., ascend steeply.
57.40	Sharp ridge, extends N. and S., descend.
62.50	Head of wash, course S., ascend.
67.00	Spur, extends S., descend through dense oak brush.
79.40	Dry wash, 15 lks. wide, course S., thence over gently rolling and broken land.
80.00	Set a quartz stone, 18 X 8 X 8 ins., in mound of the stone, for cor. of secs., 2, 334 and 35, marked with 2 notches on the E. and 4 notches on the W. edge, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. An oak, 10 ins. diam., brs. S. $94^{\circ}$ E., 13 lks. dist., Marked T 9 N R 14 E S 2 B T.
	No other trees available.

chains

Land, mountainous, gently rolling and broken.  
Soil, gravelly, stony and rocky; 3rd and 4th rate.  
Timber, oak, juniper and pine; undergrowth, oak and buck brush.  
Mountainous land, heavily timbered and covered with dense undergrowth, exceptionally difficult to survey.  
80.00 chs.

August 26: At noon, I set off 10° 38' N. on the decl. arc, and observe the sun on the meridian; the resulting lat. is 34° 10' N.

S. 89° 57' W. bet. secs. 3 and 34.

Over broken ground, through scattering timber and dense oak brush.

22.00  
37.00  
40.00

Enter wash, course West, water in holes.  
Leave wash, course SW., thence along S. slope of ridge.  
Set a trachyte stone, 18 X 8 X 5 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor. Pits impracticable.

A pine, 9 ins. diam., brs. N. 66 1/2° W., 100 lks. dist., marked 1/4 S 34 B T.

No other trees available.

46.00  
58 70  
61.90  
66.55  
71.30  
80.00

Dry wash, 15 lks. wide, course S., ascend.  
Spur, extends S., descend.  
Dry wash, 15 lks. wide, course S., ascend.  
Road from Pleasant Valley to Holbrook, brs. NE. and SW. Ridge, extends WSW and ENE., descend steeply.  
Point for cor. of secs., 3, 4, 33 and 34, falls on E. face of granite rock, 10 X 6 X 6 ft. above ground, which I mark with a cross for exact cor. point, with 3 grooves on E. and W. faces, from which

A sycamore, 14 ins. diam., brs. N. 25° E., 146 lks. dist., marked T 10 N. R. 14 E S 34 B T.

A juniper, 30 ins. diam., brs. S. 60° E., 76 lks. dist., marked T 9 N R 14 E S 3 B T.

A pine, 24 ins. diam., brs. S. 30° W., 54 lks. dist., marked T 9 N R 14 E S 4 B T.

A sycamore, 10 ins. diam., brs. N. 69° W., 127 lks. dist., marked T 10 N R 14 E S 33 B T.

Land, mountainous, gently rolling and broken.  
Soil, sandy, gravelly, stony and rocky; 3rd and 4th rate.

Timber, Scattering oak, juniper, pine and pinon; undergrowth, oak and buck brush.

Mountainous land, covered with dense undergrowth, exceptionally difficult to survey, 80.00 chs.

August 26, 1907.

August 27, 1907. At 7h a.m., l.m.t., I set off 10° 23' N. on the decl. arc, and 34° 10' N. on the lat. arc, and determine a true meridian with the solar at the cor. of secs. 3, 4, 33 and 34 on the N. Bdy. of Tp.

Thence I run, S. 89° 57' W. on a true line bet. secs. 4 and 33.

Over mountainous land, descending steeply.

1.50

Cherry Creek, 90 lks. wide, dry, course SW, enter heavy timber.

10.50

Dry wash, 40 lks. wide, course S., leave heavy timber, enter dense oak brush; ascend.

29.35

Large granite boulder brs. N. 15 lks. dist.

40.00

Ridge, extends NE and SW.

Set a granite porphyry stone, 16 X 16 X 8 ins., 11 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stones, 2 ft. base, 1 1/2 ft. high N. of cor. Pits impracticable.

chains	<p>An oak, 18 ins. diam., brs. N. 59° E., 64 lks. dist., marked <math>\frac{1}{4}</math> S 33 B T.</p> <p>An oak, 16 ins. diam., brs. S. 10° W., 68 lks. dist., marked <math>\frac{1}{4}</math> S 4 B T.</p> <p>Descend.</p>
67.55	Dry wash, 15 lks. wide, course SW.
68.60	Dry wash, 15 lks. wide, course S., leave dense brush, ascend through heavy oak timber.
80 00	<p>Set a granite porphyry stone, 18 X 8 X 8 ins., 12 ins. in the ground, for cor. of secs. 4, 5, 32 and 33, marked with 4 notches on the E and 2 notches on the W. edges, and raise a mound of stone, 2 ft. base, <math>1\frac{1}{2}</math> ft. high, W. of cor.</p> <p>A juniper, 36 ins. diam., brs. N. 28° E., 166 lks dist., marked T 10 N R 14 E S 33 B T.</p> <p>An oak, 20 ins. diam., brs. S. 53° E., 132 lks. dist., marked T 9 N R 14 E S 4 B T.</p> <p>An oak, 12 ins. diam., brs. S. 27° W., 34 lks. dist., marked T 9 N R 14 E S 5 B T.</p> <p>An oak, 14 ins. diam., brs. N. 21° W., 67 lks. dist., marked T 10 N R 14 E S 32. B T.</p> <p>Land, mountainous and nearly level. Soil, sandy, gravelly and stony; 3rd and 4th rate. Timber, oak, juniper, pine; undergrowth, oak, manzanita and buck brush. Mountainous land, heavily timbered or covered with dense undergrowth, exceptionally difficult to survey, 80.00 chs.</p> <p>-----</p> <p>S. 89° 57' W., bet. secs. 5 and 32. Ascending through heavy oak timber.</p>
3.20	Top of nearly level mesa, extends N. and S., leave timber.
40.00	Set a sandstone, 24 X 16 X 5 ins., 18 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
53.00	Enter gently rolling land and scattering oak timber, extending NE. and SW.
70.55	Dry wash, 15 lks. wide, course NW.
80.00	<p>Set a quartzite stone, 18 X 10 X 8 ins., 12 ins. in the ground, for cor. of secs., 5, 6, 31 and 32, marked with 5 notches on the E and 1 notch on the W. edge, and raise a mound of stone, 2 ft. base, <math>1\frac{1}{2}</math> ft. high W. of cor. Pits impracticable.</p> <p>A juniper, 9 ins. diam., brs. S. 2° E., 449 lks. dist., marked T 9 N R 14 E S 5 B T.</p> <p>A juniper, 8 ins. diam., brs. N. 50<math>\frac{1}{2}</math>° W., 264 lks. dist., marked T 10 N R 14 E S 31 B T.</p> <p>No other trees available. Land, nearly level and gently rolling. Soil, gravelly and stony; 2nd, 3rd and 4th rate Timber, scattering oak and juniper; undergrowth, oak.</p> <p>-----</p> <p>August 27: At noon. 1 Set off 10° 17' N. on the decl. arc, and observe the sun on the meridian; the resulting lat. is 34° 10' N.</p>
4.65	<p>S. 89° 57' W. bet. secs. 6 and 31. Over rolling land, through scattering oak timber. Dry wash, 20 lks. wide, course NNW.</p>

chains  
40.00

Set a quartzite stone, 18 X 8 X 8 ins., 12 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on N. face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$  ft. high, N. of cor. Pits impracticable.

An oak, 12 ins. diam., brs. S. 25 $\frac{1}{2}$ ° W., 138 lks. dist., marked  $\frac{1}{4}$  S 6 B T.

An oak, 12 ins. diam., brs. N. 38 $\frac{1}{2}$ ° W., 121 lks. dist., marked  $\frac{1}{4}$  S 31 B T.

42.00

Enter heavy oak timber, extends NE. and SW.

48.15

Dry wash, 15 lks. wide, course NNW.

50.10

Dry wash, 15 lks. wide, course N.

76.75

Dry wash, 15 lks. wide, course N.

79.91

The cor. of Tps. 9 and 10 N., Rs. 13 and 14 East.

Land, rolling.

Soil, gravelly and stony; 2nd, 3rd and 4th rate.

Timber, oak; undergrowth, oak.

Land heavily timbered, 37.91 chs.

August 27, 1907.

General Description.

Township 9 North, Range 14 East is mountainous in northeastern portion and gently rolling in the northwestern portion.

Boundaries of Township 9 North, R. 14 East.

Latitudes, Departures and closing errors.

Line Designated	True bearing	Distance	Latitudes		Departures	
			N.	S.	E.	W.
2nd Stan Par	N. East	480.			480.00	
East Bdy	North	480	480			
N. Bdy	S. 89° 57' W	479.91		.42		479.91
West Bdy	South	480		480.00		
Convergency						.49
		480		480.42	480	480.40
				480.00		480.00
				.42		.40

*Edgar C. Dieck*  
U. S. Deputy Surveyor.

LIST OF NAMES:

A list of the names of the individuals employed by Edgar C. Dietrich

....., 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 N. Ex W

bds. Sp. 9 N., R. 13 E. and N. bdy Sp. 9 N., R. 14 E.

showing the respective capacities in which they acted:

James B. Boley - John Harding Culin, Chainman.

M. P. Steele - Fred Smith, Chainman.

John M. Trayer, Moundman.

A. H. Sanford, Axman.

L. C. Braun, Axman.

....., Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Edgar C. Dietrich

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

those parts or portions of the N. Ex W. bds of Sp. 9 N. R. 13 E.,

and N. bdy Sp. 9 N., R. 14 E.

..... of the Gila

Salt River Base 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

James B. Boley - John Harding Culin, Chainman.

M. P. Steele, Fred Smith, Chainman.

John M. Trayer, Moundman.

....., Moundman.

A. H. Sanford, Axman.

....., Axman.

L. C. Braun, Flagman.

Subscribed and sworn to before me this 15<sup>th</sup>

day of November, 1907



Edgar C. Dietrich  
U. S. Deputy Surveyor  
no notary available

BOOK 2113

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Edgar C. Dietrich 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 7<sup>th</sup> day of May, 1906, 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 N. E. W. bdy. of Tp. 9 N., R. 13 E., and N. bdy. of Tp. 9 N., R. 14 E.

River Base of the Gila & Salt 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.

Edgar C. Dietrich  
United States Deputy Surveyor.

Subscribed by said Edgar C. Dietrich, and sworn to before me }  
this 21<sup>st</sup> day of November, 1907

James R. W. ...  
U. S. Commissioner 1st Jud. Dist,  
Territory of Arizona.



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Ariz. March 27, 1909

The foregoing field notes of the survey of N. E. and W. boundaries of Tp. 9 N., R. 13 E. and N. bdy. of Tp. 9 N., R. 14 E. Gila and Salt River Base and Meridian, Arizona

executed by Edgar C. Dietrich, U.S. Deputy Surveyor under his contract No. 140, dated May 7, 1906, 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.