

D. W. Shick & J. ... 1857

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1857

Book "C."

BOOK 1857

# FIELD NOTES

OF THE SURVEY OF THE

Subdivision lines of

T. 18 S. R. 16 E

1857

1857

Of the Gila and Salt River Meridian,

AS SURVEYED BY

Philip Couzner, United States Deputy Surveyor,

Under his Contract No. 115, dated March 15<sup>th</sup>, 1904

Survey commenced August 3<sup>rd</sup>, 1904

Survey completed August 15<sup>th</sup>, 1904

## NAMES AND DUTIES OF ASSISTANTS.

John M. Trayer, chairman

H. W. Higgins, chairman

A. A. Lyssight, roundman

Manuel Salazar, roundman

Charles M. Pogue, axeman

Tom Jones, axeman

Arthur Pogue, flagman

BOOK 1857

INDEX DIAGRAM.

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PRELIMINARY OATHS OF ASSISTANTS.

WE, John M. Trayer and H. M. Higgins 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

Subdivision lines of T. 18 S. R. 16 E

John M. Trayer, Chainman.  
H. M. Higgins, Chainman.

Subscribed and sworn to before me this 20<sup>th</sup> day of July, 18904



W. G. Power

NOTARY PUBLIC,  
PIMA COUNTY, ARIZONA  
MY COMMISSION EXPIRES

April 27<sup>th</sup> 1908

WE, A. A. Lyright and Manuel Salazar 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

Subdivision lines of T. 18 S. R. 16 E

A. A. Lyright, Moundman.  
Manuel Salazar, Moundman.

Subscribed and sworn to before me this 20<sup>th</sup> day of July, 18904



W. G. Power

NOTARY PUBLIC,  
PIMA COUNTY, ARIZONA  
MY COMMISSION EXPIRES

April 27<sup>th</sup> 1908

WE, Charles M. Pogue and Tom Jones do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

Subdivision lines of T. 18 S. R. 16 E

Chas M Pogue, Axman.  
Tom Jones, Axman.

Subscribed and sworn to before me this 20<sup>th</sup> day of July, 18904



W. G. Power

NOTARY PUBLIC,  
PIMA COUNTY, ARIZONA  
MY COMMISSION EXPIRES

April 27<sup>th</sup> 1908

I, Arthur Pogue, 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

Subdivision lines of T. 18 S. R. 16 E

Arthur Pogue, Flagman.

Subscribed and sworn to before me this 20<sup>th</sup> day of July, 18904



W. G. Power

NOTARY PUBLIC,  
PIMA COUNTY, ARIZONA  
MY COMMISSION EXPIRES

April 27<sup>th</sup> 1908

Chains

The East and South boundaries of this township being out in alignment and measurement, therefore in conformity with Manual of Instructions, I proceed to subdivide the same from the north to the south, beginning at the corner of sections 5, 6, 31 and 32 on the north boundary of the township,

Survey commenced August 2, 1904 and started with a Young and Sons light mountain transit, No. 5607 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, June 10, 1904.

I examined 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 on Polaris, I proceed as follows:

At the corner of sections 5, 6, 31 and 32, on the north boundary of the township, recently established by Mr. Patridge  $31^{\circ}54'$  N. longitude  $110^{\circ}44'$  W, I set off  ~~$17^{\circ}42'$~~   $31^{\circ}54'$  on the lat. arc.

$17^{\circ}42\frac{1}{2}'$  on the decl. arc, and at  $4^h 30^m$  p. m. l. m. t. determine with the solar a meridian and mark a point thereof, on a stone firmly set in the ground, 5 chs. N. of the cor.

At  $10^h 43^m$  p. m. l. m. t. by my watch, which is correct, 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. W. of my station.

August 2<sup>nd</sup> 1904.

August 3: At  $6:30$  a. m. l. m. t. I lay off the azimuth of Polaris  $1025'$  to the West, and mark the meridian thus determined, by cutting a small groove in the stone set July 20, on which the meridian falls 0.3 ins west of the mark determined by the solar.

At  $7^h 10^m$  a. m. l. m. t. I set off  $31^{\circ}54'$  on the lat. arc,  $17^{\circ}33'$  on the decl. arc, and mark a point in the meridian determined

Subdivision of S. 18 S., R. 16 E.

BOOK 1857

Chains

with the solar by a cross on the stone already set 5 chs. N. of my station, this mark falls 0.3 ins <sup>West</sup> east of the meridian established by the Solaris observation.

The solar apparatus by p. m. and a. m. observations, defines positions for meridians, respectively about 0.16" east and west of the meridian established by the Solaris observations, therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 7<sup>h</sup> 30<sup>m</sup> a. m. is N. 12° 44' N. the angle thus determined gives the mag. decl. 12° 44' E.

Stamer S 11111  
 S. 0° 01' N. bet. secs. 5 and 6.

30.00 Over mountainous land, descending S. slope of ridge  
 Gulch, 300 ft. below top of ridge, 20 lbs. wide course S. W. westerly; ascend.

38.00 Top of spur, 170 ft. above gulch, extending N. thence along N. slope of Mt. Pagan.

40.00 Set a porphyry stone, 18 x 8 x 6 ins., 12 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on W. face, and raise a mound of stone, 2 ft. base, 1  $\frac{1}{2}$  ft. high, W. of cor. Sets impracticable.

50.00 Gulch, 15 lbs. wide, course W. westerly.

68.00 Gulch, 20 lbs. wide, course W. westerly.

74.00 Gulch, 10 lbs. wide, course W. westerly.

80.00 Set a porphyry stone, 18 x 8 x 8 ins., 12 ins. in the ground for cor. of secs. 5, 6, 7 and 8, marked with 5 notches, on E. and S. edges, and raise a mound of stone 3 ft. base, 2 ft. high, W. of cor. Sets impracticable.

Land, mountainous.  
 Soil, gravelly and stony; 3rd and 4th rates.  
 Timber, a few oak in gulches; undergrowth, amole, Spanish bayonet, palmillo and cactis.  
 Mountainous land, 80.00 chs.

West, on a random line bet. secs. 6 and 7.

40.00 Set Imp.  $\frac{1}{4}$  sec. cor.  
 80.06 Entersect N. by. of the Sp. 4 lbs. S. of the cor. of secs. 5, 6, 7 and 8, as heretofore described.

Stamer S 11111  
 S. 89° 58' E., on a true line bet. secs. 6 and 7.

Chain  
 4.00 Over mountainous land, descending.  
 Gulch, 40 lbs. wide, course N. Westerly; ascend.  
 35.00 Top of N. slope of ridge, bars Northernly and Southernly, 300 ft. above gulch; thence along slope.  
 40.03 Set a granite stone, 18x8x6 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 1/2 ft. high, N. of cor. Pits impracticable.  
 60.00 Descend.  
 75.00 Gulch, 20 lbs. wide, course S. Westerly; begin ascent W. slope of Mt. Sagan.  
 80.06 Sh. cor. of secs. 5, 6, 7 and 8.  
 Land, mountainous.  
 Soil, gravelly and stony; 4th. rate.  
 Timber, a few oaks, undergrowth, amole, palmillo, Spanish bayonet, mesquite and cacti.  
 Mountainous land, 80.06 chs.

S. 0° 01' W., bet. secs. 7 and 8.

Over mountainous land, ascending along N. slope of Mt. Sagan.  
 2.00 Spur, extending Westerly; descend.  
 21.60 Gulch, 200 ft. below top of spur, 20 lbs. wide, course S. Westerly; ascend.  
 27.00 Spur, 80 ft. above gulch, extending Westerly; descend.  
 37.70 Gulch, 100 ft. below top of spur, 20 lbs. wide, course N. ascend.  
 40.00 Set a sandstone, 18x8x8 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 1/2 ft. high, N. of cor. Pits impracticable.  
 42.40 Gulch, 15 lbs. wide, course Westerly; enter scattering oak timber, bars E. and W. ascend.  
 46.70 Ridge, bars E. and W. descend.  
 54.70 Enter gulch course Westerly.  
 57.60 Broad gulch, ascend.  
 66.70 Ridge, bars Easterly and Westerly; descend.  
 76.70 Gulch, 160 ft. below top of ridge, 20 lbs. wide, course Westerly; ascend.  
 80.00 Set a granite stone, 18x8x8 ins., 12 ins. in the ground, for cor. of secs. 7, 8, 17 and 18, marked with 5 notches on E. and 4 notches on S. edge; from which  
 An oak, 12 ins. diam., bars N. 22 1/2° E., 44 lbs. dist., marked S 18 S R 16 E S 8 1/2 S.  
 An oak, 6 ins. diam., bars N. 5 3/4° W., 126 lbs. dist., marked S 18 S R 16 E S 7 1/2 S.; no other trees within limit; and raise a mound

Subdivision of S. 18 S., R. 16 E.

Chamis

OK

off stone 2 ft. base, 1 1/2 ft. high, N. of cor. Rts impracticable.  
Land, mountainous.

Soil, gravelly, stony and rocky; 3rd. and 4th. water.  
Timber, scattering oak; undergrowth, Spanish bayonet, amole,  
palmito and cacti.

Mountainous land 80.00 chs.

August 3: At this cor. I set off 17° 29' N. on the circ. arc and  
at 12 1/4 m l. w. t., observed the sun on the meridian, the resulting  
latitude is 31° 52' 9".

N. 89° 58' W., on a random line bet. secs. 7 and 18.

40.00 Set temp. 1/4 cor. cor.  
80.04 Intersect W. bdy. of the S. 1/4 S. of the cor. of secs. 7, 12, 15  
and 18, as hereof described.

Spur S. 89° 56' E., on a random line bet. secs. 7 and 18.

Over mountainous land ascending.  
12.60 Spur extending N. Easterly; descend.  
24.00 Gulch, 200 ft below top of spur, 40 lbs. wide, course Northwesterly;  
ascend.

81.00 N. slope of spur 100 ft. above gulch; descend.  
32.00 Enter scattering oak timber, bears N. Easterly and S. Westerly.

40.00 Set a sandstone, 18 x 8 x 6 ins, 12 ins. in the ground, for 1/4 sec. cor.  
OK marked 1/4 on N. face, from which  
An oak, 6 ins. diam., bears S. 50 1/4 W., 78 lbs. dist., marked 1/4 S 1/2  
B S.

An oak, 6 ins. diam., bears N. 59 1/4 W., 55 lbs. dist., marked  
1/4 S. 1/2 B S; and raise a mound of stone 2 ft. base 2 ft. high, N. of  
cor.

46.30 Gulch, 100 ft. below top of slope of spur, 20 lbs. wide, course  
N. Westerly; ascend.

6.00 Top of spur 160 ft. above gulch, extending N. Westerly; descend.

76.00 Gulch, 90 ft. below top of spur; ascend.

78.00 Spur, extending Northwesterly; descend.

80.04 E. cor. of secs. 7, 8, 17 and 18.

Land, mountainous.  
Soil, gravelly and stony; 4th. water.  
Timber, scattering oak; undergrowth, palmito, Spanish bayonet,  
amole and cacti.  
Mountainous land, 80.04 chs.



Chains	S. 0° 01' N., bet. secs. 17 and 18.
7.40	Over mountainous land, ascending through scattering oak timber.
11.30	Top of spur, extending Westerly; descend.
15.50	Small gulch, course Westerly; ascend.
20.20	Spur, extending Westerly; descend.
40.00	Gulch, 100 ft. below top of spur, 20 lbs. wide, course Westerly; begin steep ascent through dense laurel and oak brush.
42.70	The point for $\frac{1}{4}$ sec. ev. falls on a calcareous ledge, bearing N. E. and S. W. on which cut a cross (x) at the ev. point for $\frac{1}{4}$ sec. ev. marked $\frac{1}{4}$ on N. side of cross; and raise a mound of stone 3 ft. base, 2 ft. high, W. of ev. This impracticable.
51.80	Top of spur of ridge, 500 ft. above ev. of secs. 7, 8, 17 and 18, extending Westerly, bear dense brush and descend.
62.00	Gulch, 100 ft. below top of spur, 15 lbs. wide, course Westerly; ascend.
75.60	Ridge 300 ft. above gulch, bears N. E. and S. W.; begin descent of S. slope.
80.00	Gulch, 15 lbs. wide, course S. S. Westerly.
81	Set a granite stone, 18x8x8 ins., 12 ins. in the ground, for ev. of sec. 17, 18, 19 and 20, marked with 5 notches on E. and 3 notches on S. edge; from which
	An oak, 12 ins. diam., bears N. 57° E., 130 lbs. dist., marked S 18 S B 16 E S 17 B S.
	An oak, 6 ins. diam., bears S 27 $\frac{1}{4}$ ° E., 131 lbs. dist., marked S 18 S B 16 E S 20 B S.
	An oak, 8 ins. diam., bears S. 37 $\frac{3}{4}$ ° N., 116 lbs. dist., marked S 18 S. B 16 S 19 B S.
	An oak 10 ins. diam., bears N. 81° N., 55 lbs. dist., marked S 18 S B 16 E S 18 B S.; and raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of ev.
	Land, mountainous.
	Soil, gravelly, stony and pebbly; 2nd. and 4th. rate.
	Timber, scattering oak, cedar and laurel, undergrowth, laurel, oak, prairies, Spanish bayonet, myrtle and cacti.
	Mountainous, or land covered with dense undergrowth, 80.00 chs.
	August 3, 1904.
	August 4: At 7 <sup>h</sup> 15 <sup>m</sup> a.m., l.m.t., I set off 31° 52' N on the lat. arc, 17° 17' W on the decl. arc, and determine a meridian with the solar at the ev. of secs. 17, 18, 19 and 20.
	Plumer & Gunn

Chama

N. 89° 56' W, on a random line bet. secs. 18 and 19.  
 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
 80.10 Enter set N. by of pt. S. 14 lbs. N. of the cor. of secs. 13, 18, 19 and 24, as herebefore described.

Shma Burn

N. 89° 58' E, on a true line bet. secs. 18 and 19.  
 Over mountainous land, descending through scattering oak, cedar and Laurel timber and dense brush.

35.50 Deep gulch, 800 ft below top of mountain, 1 ch. wide, course N. Easterly; bare, dense brush and as usual.

40.05 Set a calcareous stone, 20x10x8 ins., 15 ins. in the ground, for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on N. face, and raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor. Pts impracticable.

50.00 Spring and Iron boiler garden, patch, bare about 6 chs. S.

60.70 Top of ridge, 600 ft. above gulch, bare N. Easterly and S. Westerly; descend.

79.00 Gulch, 175 ft. below top of ridge, 15 lbs. wide, course S. Easterly; descend.

80.10 S. cor. of secs. 17, 18, 19 and 20.  
 Land, mountainous.

Soil, gravelly, stony and rocky; 4th. rate.  
 Timber, scattering oak, cedar and Laurel, undergrowth, oak, Laurel, Spanish bayonet, palmello, amole, mycal and cacti.  
 Mountainous, or land covered with dense undergrowth, 80.10 ch.

S. 0° 01' W, bet. secs. 19 and 20.  
 Over mountainous land, descending through scattering oak timber.

18.00 Gulch, 20 lbs. wide, course Easterly; descend.

22.00 Top of ridge, bare Easterly and Westerly; descend.

26.00 Gulch, 20 lbs. wide, course Easterly; descend.

32.00 Ridge, bare Easterly and Westerly; descend.

39.00 Gulch, 20 lbs. wide, course S. Easterly; ascend through dense brush.

40.00 Set a porphyry stone, 18x12x6 ins., 12 ins. in the ground, for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on N. face, from which

An oak, 6 ins. diam, bare S. 79° E, 50 lbs. dist., marked  $\frac{1}{4}$  S. 20 B S.

An oak, 8 ins. diam, bare S. 58° W, 19 lbs. dist., marked  $\frac{1}{4}$  S. 19 B S.

45.00 Top of N. slope of mountain, descend.

71.15 Gulch, 300 ft. below top of slope, 15 lbs. wide, course E. & Easterly; bare dense brush, and ascend.

Chambers  
8070

OK

Set a sandstone, 18 x 8 x 7 ins., 12 ins. in the ground, for ev. of  
 sec. 19, 20, 29 and 30, marked with 5 notches on E. and 2 notches  
 on S. edge; from which  
 An oak, 10 ins. diam., bears N. 12° E., 161 lbs. dist., marked  
 S 18 S R 16 E S 25 B S.  
 An oak, 18 ins. diam., bears S. 69° N., 159 lbs. dist., marked  
 S 15 S R 16 E S 30 B S.; no other trees within limit; and raise a  
 mound of stone, 2 ft. base, 1 1/2 ft. high, N. of ev. Rts. impracticable.  
 Land, mountainous.  
 Soil, gravelly and stony; 4th rate.  
 Timber, scattering oak; mesquite, oak, laurel, Spanish bayonet,  
 palmilla and cacti.  
 Mountainous or land covered with dense undergrowth, 80.00 chs.  
 August 4: At this ev. I set off 17° 13' N. on the decl. arc, and  
 at 12<sup>h</sup> 5<sup>m</sup> l.m.t., observed the sun on the meridian. The resulting lati-  
 tude is 31° 51' N. or within 1' of the proper lat.

S. 89° 55' N., on a random line bet. sec. 19 and 30.  
 40.00 Set temp. 1/4 sec. ev.  
 49.98 Enteract N. base of the Sp. 3 lbs. N. of the ev. of sec. 19, 24,  
 25 and 30, as heretofore described.  
 Shower & rain  
 N. 89° 57' E., on a line bet. sec. 19 and 30.  
 Dry mountainous land, descending through scattering oak tim-  
 ber and dense brush.  
 12.00 Gulch, 20 lbs. wide, course N. E.; ascend gradually.  
 16.00 Old road, bears N. E. and S. N.  
 22.50 Ruins of old <sup>Log</sup> cabin, bears 40. lbs. S.  
 24.60 Wire fence, bears N. Easterly and S. Westerly.  
 27.00 Top of ridge, bears N. Easterly and S. Westerly; descend.  
 36.00 Spring, bears 4 chs. N.  
 38.50 Gulch, 45 lbs. wide, course S. Easterly; road, bears N. Westerly  
 and S. Easterly; broad dense brush and ascend  
 38.70 Ripr line from spring to Rosemont, bears N. Westerly and  
 S. Easterly.  
 39.99 Set a granite stone, 18 x 8 x 8 ins., 12 ins. in the ground, for 1/4 sec.  
 ev. marked 1/4 on N. face. from which  
 An oak, 14 ins. diam., bears S. 1° E., 52 lbs. dist., marked  
 1/4 S 30 B S.  
 An oak, 18 ins. diam., bears N. 54 1/4° N., 130 lbs. dist., marked  
 1/4 S 19 B S.; and raise a mound of stone, 2 ft. base, 1 1/2 ft. high,

Chams	Top of cr.
50.00	Top of ridge, 150 ft. above gulch, bears Northwly and Southwly; descend.
54.30	Prospect hole, bears 30 lbs. S.
58.00	Small gulch, 100 ft. below top of ridge, course S. E.; ascend.
60.50	Ridge, bears N. and S.; descend.
72.00	Gulch, 175 ft. below top of ridge, 10 lbs. wide, course S. Easterly; ascend.
79.98	Top cr. of sres. 19, 20, 29 and 30. Land, mountainous. Soil, gravelly loam, gravelly and stony; 2nd, 3rd and 4th rates Timber, scattering oak and cedar; undergrowth, oak, laurel, palmetto, Spanish bayonet and cacti. Mountainous, or land covered with dense undergrowth, 79.98 ch. August 4, 1904.

August 5: At 7<sup>00</sup> a.m., l.m.t., I set off  $31^{\circ} 51' 09''$  on the lat. arc,  $174^{\circ} 22'$  on the merid. arc, and determined a meridian with the solar at the cr. of sres. 19, 20, 29 and 30.

Placed 8 run  
S  $0^{\circ} 01'$  N, bet. sres. 29 and 30.  
Over mountainous land, ascending through scattering oak timber.

1.00	Top, thence along E. slope of ridge.
16.50	Descend.
18.70	Gulch, 20 lbs. wide, course Easterly; ascend.
22.00	Top of spur, extending N. E.; descend.
32.00	Gulch, 1 ch. wide, course Easterly; ascend through dense laurel and oak bush.
4.00	Set a sandstone, $15 \times 8 \times 7$ ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cr. marked $\frac{1}{4}$ on N. face; from which
5.00	An oak, 12 ins. diam., bears N. $12^{\circ} 2'$ E., 161 lbs. dist, marked $\frac{1}{4}$ S $29^{\circ}$ B S.
	An oak, 18 ins. diam., bears S. $69^{\circ} 2'$ N., 159 lbs. dist, marked $\frac{1}{4}$ S $30^{\circ}$ B S.; and raised a mound of stone 2 ft. base, $\frac{1}{2}$ ft. high, N. of cr.
41.00	Top of N. slope of ridge, 200 ft. above gulch; have dense bush and descend.
58.50	Dry wash, 20 lbs. wide, course S. Easterly.
70.60	Dry wash, 40 lbs. wide, course Easterly; ascend through dense bush.
71.00	Point, bears E. and N.
80.00	Set a sandstone, $18 \times 8 \times 6$ ins., 12 ins. in the ground, for cr. of sres.

Chain  
of  
line

29, 30, 31 and 32, marked with 5 notches on E. and 1 notch on S.  
rdgs; from which  
An oak 9 ins. diam., bears N.  $78\frac{1}{2}^{\circ}$  E; 61 lbs. dist., marked  
S 18 S R 16 E S 29 B S.  
An oak, 12 ins. diam., bears S.  $33\frac{3}{4}^{\circ}$  E, 100 lbs. dist., marked  
S 18 S R 16 E S 32 B S.  
An oak, 10 ins. diam., bears S.  $33\frac{1}{4}^{\circ}$  W, 137 lbs. dist., marked  
S 18 S R 16 E S 31 B S.  
An oak, 6 ins. diam., bears N.  $24\frac{1}{2}^{\circ}$  W, 89 lbs. dist., marked  
S 18 S R 16 E S 30 B S.  
Land, mountainous.  
Soil gravelly loam and stony; 2nd, 3rd. and 4th rats.  
Timber scattering oak and laurel; undergrowth, oak, laurel,  
palmillo and cactis.  
Mountainous or land covered with dense undergrowth, 8000 chs.

S  $89^{\circ}57'$  W, on a random line bet. sec. 30 and 31.  
4600 Set trap.  $\frac{1}{4}$  sec. cov.  
49.96 Enter set N. by. of the Sp. 17 lbs N. of the cov. of sec. 25, 30,  
31 and 36, as heretofore described.  
Shore & firm  
N.  $89^{\circ}50'$  E, on a true line bet. sec. 30 and 31.  
Over mountainous land, ascending through scattering oak timber.  
40 Top, thmes along S. slope of ridge.  
3000 Shore, bears 30 lbs. S.  
12.50 Shore, bears 60 lbs. S.  
23.00 Begin descent from slope.  
26.85 Dry wash, 10 lbs. wide, course S. E.; ascend.  
39.50 Ridge, 200 ft. above gulch, bears N. and S. descend.  
39.98 Set of sandstone, 18x10x5 ins., 12 ins. in the ground, for  $\frac{1}{4}$  sec.  
cov. marked  $\frac{1}{4}$  on N. face, and raised a mound of stone 2 ft.  
base, 12 ft. high, N. of cov. 120 imp. invariable.  
59.20 Dry wash 200 ft. below top of ridge, 40 lbs. wide, course N. E.;  
ascend through dense oak and laurel brush.  
59.75 Bend, bears N. E. and S. W.  
72.40 Top of N. slope of ridge; descend.  
79.96 The cov. of sec. 29, 30, 31 and 32.  
Land, mountainous.  
Soil, gravelly loam and stony; 2nd, 3rd. and 4th rats.  
Timber, oak and scattering laurel; undergrowth, oak, laurel, and  
palmillo and cactis.

see last page for  
mineral segregations.

B. 1. 1. 1.

Mountains or land covered with dense undergrowth, 79.90 chs.  
 August 5. At this cor. I set off  $16^{\circ} 57' N$  on the decl. arc. and at  
 12<sup>th</sup> 8<sup>th</sup> l. m. t., observed the sun on the meridian; the resulting lat.  
 is  $31^{\circ} 50' N$ .

S.  $0^{\circ} 01' N$ , on a true line bet. p. 21 and p. 22.

Over mountainous land, ascending through scattering oak timber  
 and dense oak and laurel bush.

3.40 Top of E. slope of ridge; low dense bush and descend.

3.50 Pine fence, bears E. and N.

21.50 Dry wash, 140 ft. below top of slope, 29 chs. wide, course E.; ascend.

25.00 Rise and spring bears E. about 5 chs. dist.

26.50 Windmill, bears E. about 20 chs. dist.

27.00 Top of spur extending easterly; descend.

31.00 Pails ranch, stubs and coral, bear about 16 chs. E.

36.00 Small dry wash, course E.; ascend.

37.35 Spur, extending E.; descend.

41.00 Set a limestone,  $18 \times 14 \times 12$  ins, 12 ins. in the ground, for  $\frac{1}{4}$  sec. cor.

marked  $\frac{1}{4}$  on N. face, from which

An oak, 12 ins. diam., bears  $N. 6^{\circ} E$ , 125 chs. dist., marked  $\frac{1}{4}$  S 32 B 3.

An oak, 10 ins. diam., bears  $S. 52^{\circ} W$ , 85 chs. dist., marked  $\frac{1}{4}$  S 31 B 3.

40.31 Pine fence, bears E. and N.

40.80 Draw, 1 ch. wide, course E.; ascend.

43.50 Top of spur, extending easterly; descend.

49.00 Draw, 2 chs wide, course easterly; begin ascent through cedar timber  
 and dense bush.

58.00 Top of ridge, 140 ft. above draw, bears easterly and westerly;  
 low cedar timber and dense bush and descend.

67.00 Enter Barred canyon, course N. easterly.

71.85 Road, bears N. easterly and S. westerly.

79.40 Enter at S. end of the  $117$  chs. E. of the cor. point of  
 sec. 5 and 6, Sp. 19 S., R. 16 E., as heretofore described.

Set a porphyry stone,  $18 \times 14 \times 10$  ins, 12 ins. in the ground, for closing  
 cor. of sec. 31 and 32, marked C C on N.; with 5 grooves on E. and 1  
 groove on W. face; from which

A jano, 6 ins. diam., bears  $N. 57^{\circ} W$ , 52 chs. dist., marked

D 18 S R 16 E S 31 B 3; no other tree within limit. and raise a

mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor. *Pit impracticable.*  
 Land, mountainous.

Soil, gravelly loam and stony; end 3rd. and 4th. part.

Timber, cedar, scattering oak and a few mesquite and jano in

B. 1857

canyon, undergrowth, oak, laurel, tisote and cacti.  
 Mountainous or land covered with dense undergrowth 79.40 chs  
 August 5, 1904.

August 6: At 7:20<sup>am</sup> a.m., l.m.t., I set off 31° 54' 7" on the lat. arc, <sup>16° 45' 7"</sup> ~~16° 47' 7"~~ on the decl. arc and determined a meridian with the solar at the cor. of secs. 4, 5, 32 and 33, on the N. side of the Pt., as heretofore described.

Plumer Brown

S. 0° 01' N., bet. secs. 4 and 5.

Over mountainous land, ascending.

- 100.00 Top of spur, extending Easterly; descend.
- 200.00 Gulch, 20 chs. wide, course N. Easterly; ascend.
- 400.00 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 N. face, and raise a mound of stone 3 ft. base, 2 ft. high, N. of cor. Sets impracticable.
- 423.30 Top of ascent, 200 ft. above gulch; Plumer along E. slope of Mt. Sagan.

58.70 Gulch, 15 chs. wide, course Easterly; ascend slightly

633.35 Begin descent from slope of mountain.

74.00 Gulch, 20 chs. wide, course Easterly; ascend.

800.00 Set a granite stone, 18 x 10 x 8 ins., 12 ins. in the ground, for cor. of secs. 4, 5, 8 and 9, marked with 4 notches on E. and 5 notches on S. edge; from which

An oak, 12 ins. diam., bears N. 25  $\frac{1}{4}$ ° E, 121 chs. dist., marked S 18 S R 16 E S 4 B S.

An oak, 10 ins. diam., bears S. 12  $\frac{1}{2}$ ° N., 179 chs. dist., marked S 18 S R 16 E S 8 B S.

An oak, 6 ins. diam., bears N. 25  $\frac{3}{4}$ ° N., 127 chs. dist., marked S 18 S R 16 E S 5 B S; in other trees within limits and raise a mound of stone, 2 ft. base, 1  $\frac{1}{2}$  ft. high, N. of cor. Sets impracticable. From this cor. the top of Mt. Sagan bears N. 48° N., about 30 chs. dist.

Land mountainous.

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

Shrub, scattering oak, undergrowth, palmito, mesquite, Spanish bayonet, amole and cacti.

Mountainous land, 800.00 chs.

West on a random line bet. secs. 5 and 8.

4000 Set  $\frac{1}{4}$  sec. cor.

Chains 80.08	Intersect N. and S. line 10 chs. N. of the cor. of sec. 5, 6, 7 and 8. Shovel & run N. $89^{\circ}56' E$ , on a true line bet. sec. 5 and 8. Over mountainous land, ascending.
16.00	Top of spur, 200 ft. above sec. cor., extending S. N. easterly, descend.
39.40	Gulch, 500 ft. below top of spur, 15 chs. wide, course Southerly; begin ascent along S. slope of Mt. Fagan.
41.04	Set a sandstone, $18 \times 10 \times 6$ ins., $1\frac{1}{2}$ 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.
54.50	Top of S. slope of mountain, 300 ft. above gulch, descend through scattering oak timber.
66.70	Gulch, 15 chs. wide, course S. Easterly.
70.00	Gulch, 15 chs. wide, course Southerly, 200 ft. below top of slope; ascend.
80.08	3rd cor. of sec. 4, 5, 8 and 9; 120 ft. above gulch. Land, mountainous. Soil, gravelly and stony; 3rd. and 4th. cuts. Timber, scattering oak, underground, palmetto, Spanish bayonet, amole, muskal and prairie. Mountainous land, 80.08 chs.
	$S 0^{\circ}01' N$ , bet. sec. 8 and 9. Over mountainous land, descending along N. slope of ridge, through scattering oak timber.
40.00	Set a granite stone, $18 \times 8 \times 6$ ins., $1\frac{1}{2}$ 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.
42.20	Gulch, 350 ft. below sec. cor., 20 chs. wide, course Westerly; ascend.
49.00	Top of ridge, 140 ft. above gulch, base E. and W.; descend.
60.00	Gulch, 180 ft. below top of ridge, 20 chs. wide, course S. Easterly, ascend.
80.00	Set a sandstone, $18 \times 8 \times 6$ ins., $1\frac{1}{2}$ ins. in the ground, for cor. of sec. 3, 9, 16 and 17, marked with 4 notches on E. and S. edges; from which An oak, 5 ins. diam., base N. $15^{\circ} E$ , 113 chs. dist., marked S 18 S R 16 E S 9 R 3. An oak, 10 ins. diam., base S. $58^{\circ} \frac{1}{4} N$ , 115 chs. dist., marked S 18 S R 16 E S 17 R 3. An oak, 10 ins. diam., base N. $48^{\circ} \frac{1}{2} N$ , 93 chs. dist., marked S 18 S R 16 E S 8 R 3; no other tree within limit, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.



6 hours

Land, mountainous.  
Soil, gravelly and stony; 3rd. and 4th rates.  
Timber, scattering oak; undergrowth, palmito, Spanish bayonet,  
mescal, amole and cacti.  
Mountainous land, 8000 chs.  
August 6. got this eve. & set off <sup>16° 41'</sup> on the gravel. road,  
and at 12<sup>30</sup> m. p. observed the sun on the meridian. the resulting  
lat. is 31° 52' N or within 1' of the proposed lat.

16° 41'

4.00

S 89° 58' N, on a random line bet. sec. 8 and 17.

Set temp.  $\frac{1}{4}$  sec. cor.

8.00

Intersect N. and S. line 5 chs. S. of the cor. of sec. 7, 8, 17  
and 18.

Shovel down

S 89° 58' E, on a true line bet. sec. 8 and 17

8.50

Over mountainous land, descending through scattering oak timber.

Deep gulch, 20 chs. wide, course N. Westerly; begin steep ascent.

07.00

Slope of mountain 700 ft. along gulch; descend.

4.00

In small gulch, course Northwesterly.

40.50

Set a porphyritic stone, 18x10x5 ins., 12 ins. in the ground, for  
reference cor. to  $\frac{1}{4}$  sec. cor. marked N 6  $\frac{1}{4}$  on N. face; from  
which

OK  
40

An oak, 8 ins. diam., bears S. 29  $\frac{1}{2}$ ° N., 33 chs. dist., marked  
N 6  $\frac{1}{4}$  S 17 B S.

An oak, 8 ins. diam., bears N 2  $\frac{1}{2}$ ° N., 45 chs. dist., marked  
N 6  $\frac{1}{4}$  S 8 B S.; and raise a mound of stone, 2 ft. base, 1  $\frac{1}{2}$  ft.  
high, N. of cor.

45.00

Gulch, 20 chs. wide, course S. Easterly; ascend.

49.00

Shrub, extending S. Easterly; descend.

55.00

Gulch, 20 chs. wide, course Southerly; ascend.

62.00

Bridge, bears N. and S.; descend.

68.00

Gulch, 15 chs. wide, course Southerly; ascend.

74.00

Bridge, bears N. and S.; descend.

8.00

On cor. of sec. 8, 9, 16 and 17.

Land, mountainous.

Soil, gravelly and stony; 3rd. and 4th rates.  
Timber, scattering oak; undergrowth, palmito, Spanish  
bayonet and cacti.  
Mountainous land, 8000 chs.

S. 0° 01' N., bet. sec. 16 and 17.

6 hrs

- Over mountainous land ascending through scattering oak timber.
- .50 Top of spur, extending Easterly; descend.
- 7.25 Gulch, 30 lbs. wide, course S. Easterly; descend over slope
- 34.20 Gulch, 30 lbs. wide, course Easterly; ascend.
- 40.00 Set a sandstone, 18x8x8 ins., 1 1/2 ins. in the ground, for 1/4 sec. cor. marked 1/4 on N. face; from which
- An oak, 7 ins. diam., bears N. 15 1/2° E., 47 lbs. dist.; marked 1/4 S 16 B 1.
- An oak, 8 ins. diam., bears N. 51 1/4° W., 66 lbs. dist.; marked 1/4 S 17 B 1; and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of ov.
- 42.50 Top of spur, 140 ft. above gulch, extending Easterly; descend.
- 48.00 Gulch, 10 lbs. wide, course Easterly; ascend.
- 54.00 Top of spur, extending Easterly; descend.
- 63.00 Gulch, 130 ft. below top of ridge, 20 lbs. wide, course Easterly; ascend.
- 72.00 Spur, bears N. W. and S. W.; descend.
- 75.20 Gulch, 15 lbs. wide, course N. Easterly; ascend.
- 80.00 Set a sandstone, 18x8x6 ins., 12 ins. in the ground, for cor. of sec. 16, 17, 20 and 21, marked with 4 notches on E. and 3 notches on S. edge; from which
- An oak, 7 ins. diam., bears S. 48° E., 234 lbs. dist.; marked S 18 S B 16 E S 21 B 1; no other trees within limit; and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of ov. Site in prairie with Band, mountainous.
- Soil, gravelly and stony; 3rd. and 4th. rgt.
- Timber, scattering oak, undergrowth, amole, palmilla and emb.
- Mountainous land, 80.00 hrs.

August 6, 1904.

- August 7 At 7<sup>10</sup> a.m. l.v.t. I set off 31° 51' N on the lat. and 16° 28' W on the decl. arc, and determine a meridian with the solar at the cor. of sec. 16, 17, 20 and 21.
- Shower 3 mm
- S. 89° 58' W, on a random line bet. sec. 17 and 20.
- 40.00 Set temp. 1/4 sec. cor.
- 50.12 Enter sec. N. and S. line 5 lbs. S. of the cor. of sec. 17, 18, 19 and 20.
- Shower 3 mm
- East on a true line bet. sec. 17 and 20.
- Over mountainous land, ascending through scattering oak timber.

6 hand  
8.00 Top of ridge, bears N. and S. descend.  
2.00 Gulch, 200 ft. below top of ridge, 20 lbs. wide, course Southwesterly  
ascend.  
34.50 Top of S. slope of stony ridge, descend.  
40.06 Set a sundstone, 20 x 8 x 5 ins., 15 ins. in the ground, for 1/4 sec. cor.  
marked 1/4 N. face, from which  
An oak, 7 ins. diam., bears S. 40° W., 89 lbs. dist., marked 1/4 S 20° E.  
An oak, 12 ins. diam., bears N. 23° W., 87 lbs. dist., marked 1/4 S 17° E.;  
and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.  
52.80 Gulch, 250 ft. below top of slope, 15 lbs. wide, course S. Easterly;  
ascend.  
54.40 Top of ridge, bears N. and S.; descend.  
62.85 Gulch, 100 ft. below top of ridge, 15 lbs. wide, course S. Easterly;  
ascend.  
64.00 Grass scattering oak timber, bears N. Westerly and S. Easterly.  
69.20 S. slope of ridge, descend.  
73.70 Head of gulch, course Southwesterly; ascend.  
80.12 Top cor. of secs. 16, 17, 20 and 21.  
Land, mountainous.  
Soil, gravelly loam and stony; 2nd, 3rd, and 4th natl.  
Timber, scattering oak, undergrowth, oak, mesquite, palmito,  
Spanish bayonet and cecily.  
Mountainous land, 80.12 chs.

S. 0° 01' W., bet secs. 20 and 21.  
Over mountainous land, ascending.  
2.00 Top of spur, extending N. Easterly; descend.  
3.70 Pine fence, bears N. E. and S. W.  
9.50 Gulch, 107 ft. below top of spur, 15 lbs. wide, course S. Easterly;  
ascend through scattering oak timber.  
20.00 Top of ridge, bears N. W. and S. E.; descend.  
27.30 Deep rocky gulch, 30 lbs. wide, course Easterly; begin steep ascent  
over gneiss boulders.  
40.00 Set a gneiss stone, 18 x 10 x 6 ins., 12 ins. in the ground, for 1/4 sec. cor.  
marked 1/4 on W. face, from which  
An oak, 10 ins. diam., bears S. 80° E., 92 lbs. dist., marked  
1/4 S. 21° E.  
An oak, 9 ins. diam., bears N. 32 1/4° W., 34 lbs. dist., marked  
1/4 S 20° E.; and raise a mound of stone, 2 ft. base, 1 1/2 ft. high,  
N. of cor.  
42.50 Top of S. slope of mountain, 200 ft. above gulch; descend.

See 1/4 sec. all  
supplement  
page 8

Subdivision of S. 13 S., R. 16 E.

6 hours  
57.00 Gulch, 170 ft. below top of slope, 15 lbs. wide, course Easterly; have boulders and ascend.  
59.30 Top of N. slope of round hill, descend.  
65.00 Gulch, 20 lbs. wide, course Easterly; ascend.  
72.00 Ridge, broad Easterly and Westerly; descend.  
80.00 Set a granite stone, 18 x 10 x 6 in., 12 in. in the ground, for cor. of sec. 20, 21, 28 and 29, marked with 4 notches on E. and 2 notches on S. side; and raise a mound of stone 2 ft. base, 1 1/2 ft. high N. of cor. Pits impracticable.  
Land, mountainous.  
Soil, gravelly loam, stony and rocky; 2nd, 3rd and 4th rates.  
Timber, scattering oak and cedar. Undergrowth, mesquite, Laurel, prairie, Spanish bayonet, yucca and etc.  
Mountainous land, 8.00 chs.

Dist. on a random line bet. sec. 20 and 29.  
4.00 Set turnp. 1/4 sec. cor.  
8.00 Enter N. and S. line at the cor. of sec. 19, 20, 29 and 30.  
Thence S. run  
East, on a true line bet. sec. 20 and 29.  
Over mountainous land, descending through scattering oak timber.  
1.20 Gulch, 20 lbs. wide, course S. S. Easterly; ascend.  
10.75 Top of S. slope of ridge, 20 ft. above gulch; descend.  
15.70 Gulch, 130 ft. below top of slope, 20 lbs. wide, <sup>course S.</sup> begin steep ascent.  
25.90 Top of sharp rocky ridge, 250 ft. above gulch; broad N. E. and S. W.; descend.  
40.01 Set a sandstone, 18 x 10 x 8 in., 12 in. in the ground, for 1/4 sec. cor. marked 1/4 on N. face; from which  
An oak 6 in. diam., bears N. 4° E., 64 lbs. dist., marked 1/4 S 20 B S.  
An oak, 10 in. diam., bears S 6 1/2° E., 68 lbs. dist., marked 1/4 S 29 B S.  
41.80 Gulch, 200 ft. below top of ridge, 10 lbs. wide, course S.; ascend.  
42.85 Top of spur, extending S.; descend.  
48.25 Gulch, 30 lbs. wide, course S. Easterly; ascend.  
51.00 Spring, in gulch, broad S. 250 lbs. dist.  
56.30 Top of S. slope of ridge, 100 ft. above gulch; descend.  
72.00 Gulch, 200 ft. below top of slope, <sup>in the wide, course S.</sup> ascend.  
76.10 Top of spur, extending S. Easterly; descend.  
77.65 Pin faced, broad N. W. and S. E.  
80.00 1/4 cor. of sec. 20, 21, 28 and 29.  
Land mountainous.  
Soil, stony; 4th rate.

3 or 1/4 cor. see  
supplemental notes  
page 8

Chains

Timber, scattering oak, undergrowth, oak, palmito and cacti.  
 Mountainous land, 80.00 chs.  
 August 7. At this eve., I set off <sup>16.24</sup> on the decl. ave. and  
 at 11<sup>57</sup> l. w. t. observed the sun on the meridian; the resulting lat.  
 is.  $31^{\circ} 50\frac{1}{2}' N.$

see page 7  
 supplemental notes  
 for this mile

S.  $0^{\circ} 01' N.$  bet. sec. 26 and 29.  
 Over mountainous land descending through scattering oak timber.  
 Wire fence, bars N. W. and S. E.  
 12.30 Gulch, 80 lbs. wide, course Easterly; ascend.  
 19.70 Spur, extending Easterly; descend.  
 23.00 Enter dense mosquito undergrowth, bars N. E. and S. W.  
 29.00 Mouth of draw 80 lbs. wide, course Easterly.  
 31.00 Enter Barrel canyon, course N. Easterly.  
 40.00 Set a sandstone,  $18 \times 10 \times 8$  in.,  $1\frac{1}{2}$  in. in the ground, for  $\frac{1}{4}$  sec.  
 ev. marked  $\frac{1}{4}$  on W. face, from which  
 A mosquito, 5 in. diam., bars N.  $85\frac{1}{2}^{\circ} E.$ , 67 lbs. dist, marked  
 $\frac{1}{4}$  S 28 B S.  
 A jam, 6 in. diam., bars S.  $43^{\circ} N.$ , 71 lbs. marked  $\frac{1}{4}$  S 29 B S.  
 41.77 Road, bars N. Easterly and S. Westerly.  
 42.30 Draw canyon and dense undergrowth; ascend.  
 46.00 Spur, extending Westerly; descend.  
 60.00 Gulch, 20 lbs. wide, course N. ascend.  
 74.00 Side of W. slope of ridge, 160 ft. above gulch, descend.  
 80.00 Set a limestone,  $18 \times 10 \times 8$  in.,  $1\frac{1}{2}$  in. in the ground, for ev. of sec.  
 28, 29, 32 and 33, marked with 4 notches on E. and 1 notch on S. edge  
 and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of ev. Site  
 impracticable.  
 Land, mountainous and level.  
 Soil, gravelly loam, stony and rocky; 2nd, 3rd. and 4th rate.  
 Timber, scattering, mosquito oak and jam; undergrowth, mosquito  
 tree, palmito, Spanish bayonet, and cacti.  
 Mountainous or land covered with dense undergrowth, 80.00 chs.

West, on a random line bet. sec. 29 and 32.  
 40.00 Set temp.  $\frac{1}{4}$  sec. ev.  
 80.10 Enter set N. and S. line 24 lbs. S. of the ev. of sec. 29, 30, 31 and 32.  
 Shows S. run  
 S.  $89^{\circ} 50' E.$ , on a true line bet. sec. 29 and 32.  
 Over mountainous land descending through scattering oak timber  
 and dense undergrowth.

Subdivision of S. 18 S., R. 16 E.

0.00	Chains	
5.00		Horse, bars N. about 6 chs. dist.
10.00		Horse, bars N. about 10 chs. dist.
12.00		Basement smaller bars N. about 15 chs. dist.
16.00		Bank house, bars N. 13 chs. dist.
17.00		Horse, bars N. 12 chs.
20.00		Basement hotel, bars N. 15 chs.
21.00		Horse, bars N. 13 chs.
24.00		Horse, bars N. 12 chs.
29.00		Enter Barred canyon 150 ft. below sec. cor., course N. Easterly, have dense undergrowth.
31.00		Basement school house bars 3 chs. N.
32.00		Pump house bars 15 chs. N. road, bars N. road S.
34.20		Barred canyon, begin steep ascent.
38.00		Top of ridge, 100 ft. above canyon, bars N. and S. descend.
40.05		Set a limestone, 18 x 10 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. <i>Pole impracticable.</i>
45.00		Enter dense brush, bars N. E. and S. W.
48.30		Small gulch, course N. Easterly; ascend.
55.00		Spur, extending N. Easterly; descend.
59.80		Gulch, 10 chs. wide, course N. Easterly; ascend.
64.00		Dense dense brush, bars N. E. and S. W.
66.30		Top of ridge, 100 ft. above gulch, bars N. and S.; descend.
74.00		Descend steeply.
75.50		Gulch, 100 ft. below top of ridge, 1 ch. wide, course N.; begin ascent of N. slope of ridge.
81.10		Top cor. of secs. 28, 29, 32 and 33. Land mountainous. Soil, gravelly loam and stony; 2nd, 3rd. and 4th rates. Timber, scattering oak and cedar, undergrowth, brodiaea, oak, laurel, palmetto, Spanish bayonet and casti. Mountainous or land covered with dense undergrowth, 80.10 chs.
		S. 0° 01' N. on a bar line bet. sec. 32 and 33. Dense mountainous land, descending.
7.00		E. bank of gulch; ascend gradually over gently rolling land, course W.
29.80		Enter bottom ground and scattering oak and cedar timber and dense oak brush, bar E. and W.
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 N. face, from which An oak, 12 ins. diam., bars S. 63° E., 56 chs., marked $\frac{1}{4}$ S 33 B S.

All supplemental notes page 8 for this mile

6.00  
 45.30  
 52.00  
 56.50  
 60.40  
 63.00  
 67.20  
 79.10

An oak, 12 ins. diam. base S. 17° N., 242 lbs. dist. marked  $\frac{1}{4}$  S 32 S. D.  
 Dry wash, 15 lbs. wide, course N. Easterly.  
 Dry wash, 10 lbs. wide, course N. Easterly; begin steep ascent.  
 Spur, extending N. Easterly; descend.  
 Gulch, 60 lbs. wide, course N. Easterly; ascend.  
 Ridge, base N. E. and S. W.; descend.  
 Draw, 40 lbs. wide, course N. E.; ascend  
 Intersect S. by of the Sp. 418 lbs. E. of the cr. of sec. 4 and 5  
 Sp. 19 S., R. 16 E., as heretofore described.  
 Set a granite stone, 18 x 8 x 8 ins., 12 ins. in the ground, for closing  
 cr. of sec. 32 and 33, marked C. C. on N.; with 4 grooves on E.  
 and 2 grooves on W. face; and raise a mound of stone, 3 ft. base,  
 2 ft. high, N. of cr.  
 Land mountainous, rolling and broken.  
 Soil, gravelly loam, and stony; 2nd, 3rd, and 4th rates.  
 Timber, scattering oak and cedar, undergrowth, oak and laurel.  
 Mountainous or land covered with dense undergrowth, 57.10 ch.  
 August 7, 1904.

August 8: At 7<sup>30</sup> a.m. l.m.t. I set off 31° 54' N on the lat. arc;  
 16° 0' N on the decl. arc, and determine a meridian with solar  
 at the cr. of sec. 3, 4, 33 and 34, on the N. by of the Sp., as  
 heretofore described.  
 Thence I run  
 S. 0° 02' N., bet. sec. 3 and 4.  
 Over mountainous land, descending.  
 1.50 Gulch, 20 lbs. wide, course N. Easterly; ascend.  
 16.00 Top of spur, 140 ft. above gulch, descend.  
 22.00 Gulch, 100 ft. below top of spur, 20 lbs. wide, course Easterly; ascend.  
 40.00 Set a sandstone, 18 x 10 x 7, 12 ins. in the ground, for  $\frac{1}{4}$  sec. cr.  
 marked  $\frac{1}{4}$  on N. face; from which  
 An oak 6 ins. diam. base S. 28° E., 62 lbs. dist. marked  $\frac{1}{4}$  S 33 S.  
 An oak, 6 ins. diam. base S. 15° N., 124 lbs. dist. marked  $\frac{1}{4}$  S 4 B S.  
 and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cr.  
 47.00 Top of spur, 400 ft. above gulch, extending N. Easterly; descend.  
 57.20 Gulch, 160 ft. below top of spur, 10 lbs. wide, course N. E.; ascend.  
 62.00 Top, thence along E. slope of mountain.  
 75.25 Descend.  
 80.00 Set a sandstone, 18 x 12 x 9 ins., 12 ins. in the ground, for cr. of sec.  
 3, 4, 9 and 10, marked with 3 notches, on E. and 5 notches on S. Edge.  
 and raise a mound of stone, 3 ft. base, 1 1/2 ft. high, N. of cr. Pit

Chains

impracticable.  
Land mountainous.  
Soil, gravelly and stony; 3rd. and 4th rates.  
Timber, scattering cypress and oak, undergrowth, mosquito, tola oak,  
palmilla Spanish bayonet and cacti.  
Mountainous land, 80.00 chs.

Dist. on a random line bet. secs. 4 and 9.

- 4.00 Set temp.  $\frac{1}{4}$  sec. ev.
- 79.92 Intersect N. and S. line 7 chs. N. of ev. of sec. 4, 5, 8 and 9.  
Bearing S. 79° 57' E., on a true line bet. secs. 4 and 9.  
Over mountainous land, ascending through scattering oak timber.
- 3.00 Top of N. slope of ridge; descend.
- 24.00 Enter gulch, course E.
- 26.00 Leave gulch, course N. E.
- 30.00 Leave scattering oak, bears N. Westerly and S. Easterly.
- 32.00 Same gulch, course S. Easterly.
- 39.96 Set a granite stone, 18x10x8 ins., 12 ins. in the ground, for  $\frac{1}{4}$  sec. ev.  
marked  $\frac{1}{4}$  on N. face and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of ev. Dist. impracticable.
- 41.40 Gulch, 600 ft. below ev. of sec. 4, 5, 8 and 9, 10 chs. wide, course S.; ascend.
- 61.00 Top of ridge, 400 ft. above gulch, bears N. and S.; descend.
- 73.00 Gulch, 200 ft. below top of ridge, 10 chs. wide, course S. Easterly; ascend.
- 76.00 Spur, extending S.; descend.
- 79.92 On ev. of sec. 3, 4, 9 and 10.

Land mountainous.  
Soil, gravelly, stony and rocky; 3rd. and 4th rates.  
Timber, scattering oak, undergrowth, palmilla, Spanish bayonet,  
mole, myrtle and cacti.  
Mountainous land, 79.92 chs.

S. 0° 21' N., bet. sec. 9 and 10.

- .30 Over mountainous land, descending.
- 16.00 Gulch, 30 chs. wide, course S. E.; ascend.
- 16.00 Top of E. slope of mountain; descend.
- 21.00 Wellbury spring bears N., about 25 chs. dist.
- 23.70 Gulch, 100 ft. below slope of mountain, 15 chs. wide, course N. Easterly; ascend.



Chain  
29.50 Dip of spur, extending N. Easterly; descend.  
34.45 Gulch, 10 lbs. wide, course Easterly; ascend  
39.00 E. slope of mountain; descend.  
40.00 Set a sandstone, 18 x 10 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 1/2 ft. high, N. of cor. Site impracticable.  
8000 Set a sandstone, 18 x 12 x 6 ins., 12 ins. in the ground, for cor. of  
sect. 9, 10, 15 and 16, marked with 3 notches on E. and 4 notches  
on S. edge. from which  
A mesquite, 6 ins. diam, bears S. 60° E., 25<sup>0</sup> lbs. dist, marked  
S 18 E R 16 S S 15 R 9.  
A mesquite, 5 ins. diam, bears N. 30° W., 39 lbs. dist, marked  
S 18 E R 16 S S 9 R 9; no other trees within limit. and raise a  
mound of stone, 2 ft. base, 1 1/2 high, N. of cor. Site impracticable.  
Land, mountainous.  
Soil, gravelly and stony; 3rd and 4th rates.  
Timber, scattering mesquite and cedar, mesquite, mesquite,  
trata, palmilla, Spanish bayonet, amole wood etc.  
Mountainous land, 8000 lbs.  
August: At this cor. I set off 16° 7' N on the decl. wire and  
at 12<sup>h</sup> 4<sup>m</sup> l. y. t., observe the sun on the meridian; the resulting  
lat. is 31° 52' N or within 1' of the proper lat.

X  
C. 89° 57' N, on a random line bet. sect. 9 and 16.  
112.00 Set temp.  $\frac{1}{4}$  sec. cor.  
79.98 Intersect N. and S. line 3 lbs. S. of the cor. of sect. 8, 9, 16  
and 17.  
Shower P. run  
N. 89° 58' E., on a true line bet. sect. 9 and 16  
Over mountainous land, descending through scattering oak  
timber.  
14.40 Gulch, 140 ft. below sec. cor. 30 lbs wide, course Easterly; ascend  
27.50 Dip of S. slope of ridge; descend.  
33.50 Gulch, 120 ft. below top of slope; ascend. course S. S. E.  
36.00 Dip of spur, extending E. descend.  
38.70 Gulch, 40 ft. deep, 30 lbs. wide course S. ascend.  
59.11 Set a sandstone, 18 x 8 x 6 ins., 12 ins. in the ground, for  $\frac{1}{4}$  sec. cor.  
marked  $\frac{1}{4}$  on N. face, from which  
A mesquite, 6 ins. diam., bears S. 37  $\frac{1}{4}$ ° N., 39 lbs. dist, marked  
 $\frac{1}{4}$  S. 18 E S. no other trees within limit. and raise a mound of stone,  
2 ft. base, 1 1/2 ft. high, N. of cor. Site impracticable.

Subdivision of S. 18 S., R. 16 E.

64.60 Top, thence along S. slope of mountain.  
55.00 Descend.  
62.00 Workman near base S. about 19 chs. dist.  
67.00 Mill and boarding house near base S. about 12 chs. dist.  
69.00 Gulch, 170 ft. below top of slope, 20 chs. wide, course S., ascend.  
77.00 Top of spur extending Southwly; descend.  
79.98 8 hr. cov. of sec. 9, 10, 15 and 16.  
Land, mountainous.  
Soil, gravelly and stony. 3rd. and 4th water.  
Timber, scattering mesquite.  
Mountainous land, 79.98 chs.

S. 1002 R., bet. sec. 15 and 16.  
In mountainous land descending.  
27.00 Gulch, 250 ft. below slope of mountain, 1 ch. wide, course Easterly, ascend.  
36.50 Top of E. slope of mountain; descend.  
40.00 Set a sandstone, 18 x 12 x 4 ins., 1 1/2 ins. in the ground, for 1/4 sec. cov. marked 1/4 on N. face; from which  
A mesquite, 8 ins. diam., bears S. 17 1/2° E., 92 chs. dist., marked 1/4 S. 15° B S.  
A mesquite, 6 ins. diam., bears N. 74 1/2° W., 119 chs. dist., marked 1/4 S. 16° B S.; and raised a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cov.  
46.50 Deep gulch, 150 ft. below slope of mountain, 40 chs. wide, course S. Easterly; ascend.  
50.00 Top of spur extending Easterly; descend.  
55.00 Gulch 30 chs. wide, course S. Easterly; ascend.  
70.00 Top of E. slope of ridge, 200 ft. above gulch, descend.  
80.00 Set a sandstone, 18 x 10 x 8 ins., 1 1/2 ins. in the ground, for cov. of sec. 15, 16, 21 and 22. marked  
S. 18 S. on N. E. and  
S. 16 E. on S. E. face with 3 notches on E. angle S. edge, from which  
A mesquite, 12 ins. diam., bears N. 7 1/4° E., 119 chs. dist., marked  
S. 18 S. 16 E. S. 15° B S.  
A mesquite, 6 ins. diam., bears S. 3 1/4° E., 205 chs. dist., marked  
S. 18 S. 16 E. S. 2 1/2° B S.  
A mesquite, 12 ins. diam., bears N. 7 3/4° W., 33 chs. dist., marked  
S. 18 S. 16 E. S. 16° B S. no other trees within living and raised a mound of stone, 3 ft. base, 2 ft. high, N. of cov. pit impracticable.  
Land, mountainous.

Chain

Soil, gravelly loam and stony; 2nd, 3rd and 4th rates.  
Timber scattering cedar, mesquite, oak and laurel, undergrowth, oak,  
mesquite, tesota, Laurel, hickory, spanish bayonet, smooth and cacti.  
Mountainous land, 8000 ch.

August 8, 1904.

31051'

August 8<sup>th</sup> At 7<sup>h</sup> 20<sup>m</sup> a.m. l.m.t. I set off ~~31° 58'~~<sup>31° 51' N</sup> for the lat. arc  
15° 54' N on the decl. arc and determine a meridian with the solar  
at the ev. of secs. 15, 16, 21 and 22.

Plumer B run  
S. 89° 58' W, on a random line bet. secs. 16 and 21.

4 000 Set camp  $\frac{1}{4}$  sec. cor.

8 000 Intersect N. and S. line 3 lbs. N. of the ev. of secs. 16, 17, 20  
and 21.

Plumer B run  
N. 89° 57' E, on a true line bet. secs. 16 and 21.

Over mountainous land, ascending through scattering oak timber.

1 000 Top of ridge bears N.E. and S.W.; descend.

3 700 Riv. furrow bears N.E. and S.W.

5 600 Small gulch, course N. Easterly; ascend

11 000 Top of ridge bears N. Easterly and S. Westerly; descend.

21 000 Small gulch, 150 ft. below top of ridge, course N. Easterly; ascend

26 300 Top of N. slope of ridge; Schofield's spring bears N. about 25 ch.  
dist.; descend.

33 000 Laurel scattering oak timber bears N. Easterly and S. Westerly.

36 810 Pipe line from spring to Schofield's ranch, bears N. Westerly  
and S. Easterly.

38 000 Gulch, 60 lbs. wide, course S. Easterly; ascend.

40 000 Set a sundstone, 18 x 12 x 8 ins., 12 ins. in the ground, for  $\frac{1}{4}$  sec.

ev. marked  $\frac{1}{4}$  on N. face, from which

A mesquite, 6 ins. diam, bears S. 19  $\frac{3}{4}$ ° W, 209 lbs. dist., marked  
 $\frac{1}{4}$  S 21 B S.

A mesquite, 6 ins. diam, bears N. 32  $\frac{3}{4}$ ° W, 222 lbs. dist., marked  
 $\frac{1}{4}$  S 16 B S; and raise a mound of stone, 2 ft. base, 1  $\frac{1}{2}$  ft. high,  
N. of ev.

40 320 Riv. furrow bears N. Westerly and S. Easterly.

46 000 Ridge, bears N. Westerly and S. Easterly; descend.

53 000 Gulch, 15 lbs. wide, course S. Easterly; ascend.

57 250 Spur, extending S. Easterly; descend.

66 000 Point bears N. and S.; ascend.

66 000 N. slope of ridge; descend.

6.41	Gulch, 15 lbs. wide course S. Easterly; ascend.
7.11.70	Ridge, broad N. Westerly and S. Easterly; descend.
7.6.00	Phos. of sres. 15, 16, 21 and 22.
8.11.04	Land mountainous. Soil, gravelly and stony; 3rd. and 4th rats. Timber, scattering oak and mesquite. Mountainous land, 80.0 + chs.
S. 0° 02' N., bet. sres. 21 and 22. Over mountainous land, descending.	
8.20	Gulch, 10 lbs. wide, course S. Easterly; ascend.
15.00	Spur, extending S. Easterly; descend.
17.00	Sw. Schuchfirdel house, broad N. about 15 chs. dist.
2.00	Gulch, 2 chs. wide, course Easterly; ascend through dense brush.
20.90	Road, broad E. and W.
27.69	Wine press, broad E. and W.; broad dense brush around structure.
28.70	Spur, extending Easterly; descend.
32.00	Gulch, 20 lbs. wide, course N. Easterly; ascend.
36.00	Ridge, broad N. E. and S. W.; descend.
38.00	Gulch, 20 lbs. wide, course N. Easterly; ascend.
4.00	Set a granite stone, 18 x 10 x 8 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cov. marked $\frac{1}{4}$ on N. face, from which A mesquite 12 ins. diam., broad S. 69° E., 34 lbs. dist., marked $\frac{1}{4}$ S 22° E. No other trees within limit, and raised a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cov. Sets impracticable.
51.00	Ridge, broad N. E. and S. W.; descend.
63.20	Small gulch, course N. E.; wine press, broad N. E. and S. W.; ascend.
64.75	Road, broad N. E. and S. W.
66.00	Ridge, broad N. E. and S. W.; descend.
67.50	Enter Barrel canyon, course N. Easterly.
68.50	Enter mesquite timber and dense brush, broad N. E. and S. W.
75.00	Leave canyon and dense brush; ascend.
8.00	Set a sandstone, 13 x 8 x 8 ins., 12 ins. in the ground, for cov. of sres. 21, 22, 27 and 28 marked with 3 notches on E. and 2 notches on S. edge; from which A mesquite, 8 ins. diam., broad S. 52 1/4° N., 142 lbs. dist., marked S 18 S R 16 E S 28 S D. A mesquite, 6 ins. diam., broad N. 12 1/4° W., 135 lbs. dist., marked S 18 S R 16 E S 21 S D.; no other trees within limit, and raised a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cov. Sets impracticable. Land, mountainous. Soil, sandy, gravelly and stony; 3rd and 4th rats.

6 hours

Timber, mesquite, undergrowth, mesquite and locust  
Mountains or land covered with dense undergrowth, 80.00 chs.

see page 6  
supplemental  
notes for this  
shp.

S. 89° 57' W., on a random line bet. secs. 21 and 28.

4.00 Set temp. 7 sec. cor.

8.00 Enter bet N. and S. line 7 lbs. S of the cor. of secs. 20, 21, 28 and 29.

Shaver & run

East, on a true line bet. secs. 21 and 28, through scattering oak timber.

Over mountainous land descending.

6.70 Guleh, 20 lbs. wide, course S. westerly; ascend.

12.30 Spur, extending easterly; descend.

34.00 Enter mesquite timber and dense undergrowth, bear N. W. and S. E.

39.00 Enter Barrel canyon, course N. E.

41.00 In small gulch, course S.

42.24 Set a sandstone, 18x8x6 ins., 12 ins. in the ground, for reference cor.  
to 4 sec. cor. marked W. 6 1/4 by N. face, from which  
A mesquite, 10 ins. diam., bears S. 51° E., 140 lbs. dist., marked  
W. 6 1/4 & 28 B B.

A willow, 8 ins. diam., bears N. 1 1/2° W., 110 lbs. dist., marked  
W. 6 1/4 & 21 B B.

48.28 River fence, bears N. E. and S. W.

52.70 Bear canyon and ascend.

52.75 Road, bears N. and S.

61.00 Corral, bears N. about 12 chs. dist.

63.00 Top of spur, extending S.; descend.

66.00 Reenter canyon, course N. easterly.

76.50 Leave canyon and ascend.

77.00 Leave mesquite timber and dense undergrowth, bear N. E. and S. W.

81.00 The cor. of secs. 21, 22, 27 and 28.

Land, mountainous and level.

Soil, sandy and gravelly loam and stony; 2nd, 3rd and 4th rate.  
Timber, mesquite and scattering oak, undergrowth, mesquite, locust  
and cacti.

Mountains, or land covered with dense undergrowth, 80.02 chs.

August 9. At this cor. I set off 15° 50' N on the decl. arc, and  
at 12<sup>h</sup> 4<sup>m</sup> l. m. t. observe the sun on the meridian; the resulting lat.  
is 31° 51' N.

S. 0° 02' W., bet secs. 27 and 28

Over mountainous land, ascending.

Spur, extending N. W.; descend.

Subdivision of S. 18 S., R. 16 E.

6 hrs  
29.00 Gulch, 20 lbs. wide, course N. Westerly; ascend.

40.00 Set a sundstone, 18x10x6 ins., 12 ins. in the ground, for  $\frac{1}{4}$  sec. cor.  
marked  $\frac{1}{4}$  on W. face, from which

8<sup>1/2</sup> A cedar, 8 ins. diam., bears N. 83° E., 14 lbs. dist., marked  $\frac{1}{4}$  S 27 B B.

A cedar, 8 ins. diam., bears N. 76° W., 179 lbs. dist., marked  $\frac{1}{4}$  S 28 B B,  
and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.

59.00 Top of ridge, 200 ft. above gulch, bears E. and W.; descend.

65.00 Gulch, 20 lbs. wide, course N. Easterly; ascend.

70.00 Ridge bears N. E. and S. W.; descend.

75.50 Gulch, 15 lbs. wide, course N. Easterly; ascend.

80.00 Top of spur, bears N. Easterly and S. Westerly; descend.

Set a sundstone, 18x10x6 ins., 12 ins. in the ground, for cor. of secs. 27, 28, 33  
and 34, marked with 3 notches on E. and 1 notch on S. edge, from which

An oak, 6 ins. diam., bears N. 15° E., 182 lbs. dist., marked  
S 18 S R 16 E S 27 B B.

An oak, 6 ins. diam., bears N. 10 3/4° W., 142 lbs. dist., marked  
S 18 S R 16 E S 28 B B; no other trees within limit, and raise a mound of  
stone, 2 ft. base, 1 1/2 ft. high, N. of cor. Not impracticable.

Land mountainous.  
Soil, gravelly loam and stony; 2nd, 3rd, and 4th rates.  
Timber, scattering oak and cedar in gulch; undergrowth, mesquite.  
Mountainous land, 30.00 chs.

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R. on a random line bet. secs. 28 and 33.

41.00 Set trap  $\frac{1}{4}$  sec. cor.

51.20 In respect N. and S. line at the cor. of secs. 28, 29, 32 and 33.  
Shower Run  
E. on a true line bet. secs. 28 and 33.  
Over mountainous land, ascending.

100 S. slope of ridge; descend.

10.00 Gulch, 20 lbs. wide, course N. Easterly; ascend.

13.00 Spur, extending N. Easterly; descend.

18.00 Draw, 20 chs. wide, course N. Easterly; ascend through oak timber and  
dense brush.

31.00 Spur, 200 ft. above draw extending northerly; bear dense brush; descend.

37.00 Draw, 100 ft. below top of spur, 40 lbs. wide, course N. Westerly; ascend.

40.10 Set a sundstone, 18x8x6 ins., 12 ins. in the ground, for  $\frac{1}{4}$  sec. cor. marked  
 $\frac{1}{4}$  on N. face, from which  
An oak, 10 ins. diam., bears S. 71 1/4° W., 253 lbs. dist., marked  
 $\frac{1}{4}$  S 33 B B.

8 hours

An oak, 10 in. diam., bears N.  $54\frac{1}{2}^{\circ}$  W., 138 lbs. dist., marked  $\frac{1}{4}$  S 28 13 S.; and raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of ev.

41.00 Sap of spur, extending N. Westward; descend.

42.70 Bunch 10 lbs. iron, corner Northward; ascend.

47.00 Sap of spur, extending Northward; thence along N. slope of ridge over sharp spur extending Northward.

81.20 S hr. ev. of sec. 27, 28, 33 and 34.

Land, mountainous.

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

Timber, oak and cedar; undergrowth, oak.

Mountainous land, or land covered with dense undergrowth, 81.20 chs.

S.  $11^{\circ} 12'$  W. on a true line bet. sec. 33 and 34.

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

41.00 Set a sandstone,  $18 \times 10 \times 6$  in., 12 in. in the ground, for  $\frac{1}{4}$  sec. ev.

marked  $\frac{1}{4}$  on W. face, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of ev. Site impracticable.

79.00 Intersect S. bdy. of the Sp. 5 chs. E. of the ev. of sec. 3 and 4, Sp. 19 S. R. 16 E., as heretofore described.

Set a sandstone,  $18 \times 10 \times 6$  in., 12 in. in the ground, for closing ev. of sec. 33 and 34, marked C C on N.; with 3 gages on E. and W. faces, from which

An oak, 10 in. diam., bears N.  $78^{\circ}$  E., 44 lbs. dist., marked S 13 S R 16 E S 34 13 S.

An oak, 12 in. diam., bears N.  $28\frac{1}{2}^{\circ}$  W., 70 lbs. dist., marked S 13 S R 16 E S 33 13 S.; and raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of ev. This ev. stands about 550 ft. above the ev. of sec. 27, 28, 33 and 34.

Land, mountainous.

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

Timber, oak; undergrowth, oak, mesquite and hickory.

Mountainous or land covered with dense undergrowth, 79.00 chs.

August 9, 1904.

August 10: At 25<sup>th</sup> m. w. m. l. m. t., set off  $31^{\circ} 54'$  on the lat.

arc;  $15^{\circ} 37' 17''$  on the decl. arc, and determine a meridian with the solar at the ev. of sec. 2, 3, 34 and 35 on the N. bdy. of the Sp. as heretofore described.

8 hours 8 min

S.  $0^{\circ} 02'$  W., bet. sec. 2 and 3.

Subdivision of P. 18 S., R. 16 E.

see page 4  
supplemental  
notes for this  
mile.

Over mountainous land, descending through scattering mosquito  
timber and dense brush.

16.00 Gulch, 20 lbs. wide, course N. Easterly.

34.00 Gulch, 15 lbs. wide, course N. Easterly; ascend.

40.00 Set a sandstone, 18x8x6 ins., 1 1/2 ins. in the ground, for 1/4 sec.  
cov. marked 4 on W. face and raise a mound of stone, 2 ft. base,  
1 1/2 ft. high, W. of cov. Pits impracticable.

56.00 Rocky ridge, 200 ft. above gulch, bears E. and W.; descend.

64.25 Gulch, 200 ft. below top of ridge, 15 lbs. wide, course S. Easterly;  
ascend.

71.00 Grow dense brush, bears N. Easterly and S. Westerly.

80.00 The point for sec. cov. falls on a granite ledge, 10 ft. long, 1 ft.  
high, bearing N. E. and S. W. on which  
cut a cross (x), at the exact cov. point for cov. of sec. 2, 3, 10  
and 11; marked with 2 notches on E. and 5 notches on S. side of  
cross; and raise a mound of stone, 3 ft. base, 2 ft. high, W. of cov.  
Pits impracticable.

Land, mountainous.

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

Timber, scattering mosquito, undergrowth, mosquito, tree, palm, etc.

Spruce, bayonet and cacti.

Mountainous or land covered with dense undergrowth, 80.00 chs.

West, on a random line bet. sec. 3 and 10.

40.00 Set temp. 1/4 sec. cov.

80.00 Enter set N. and S. line 24 lbs. N. of the cov. of sec. 3, 4, 9  
and 10.

Shore & run  
N. 89° 50' E., on a true line bet. sec. 3 and 10.

Over mountainous land, descending.

34.00 Small gulch, 600 ft. below the cov. of sec. 3, 4, 9 and 10, course  
S. Easterly; ascend.

35.00 Top of ridge, bears N. W. and S. E.; descend.

40.00 Set a sandstone, 18x10x10 ins., 1 1/2 ins. in the ground, for 1/4 sec. cov.  
marked 4 on W. face and raise a mound of stone, 2 ft. base, 1 1/2 ft.  
high W. of cov. Pits impracticable.

57.00 Gulch, 200 ft. below top of ridge, 10 lbs. wide, course N. Easterly;  
ascend.

65.00 Top of N. slope of ridge, 100 ft. above gulch, descend.

80.00 The cov. of sec. 2, 3, 10 and 11.

Land, mountainous.



Chains

Soil, gravelly loam stony; 2nd, 3rd. and 4th rate.  
Timber, scattering mesquite, undergrowth, mesquite, locust and  
cacti.  
Mountainous land, 80.00 chs.

see page 4  
supplemental notes  
for this  
mile

S. 0°02' W., bet. sec. 10 and 11.  
Over mountainous land, descending through dense brush.  
21.20  
Creek, 200 ft. below sec. cor., 20 lbs. wide, course Easterly;  
ascending.

25.70 Ridge, broad E. and W.; descend.  
37.00  
Creek, 180 ft. below top of ridge, 20 lbs. wide, course Easterly;  
ascending.

40.00 Set a sandstone, 18x8x7 in., 10 in. in the ground, for 1/4 sec. cor.  
marked 1/4 on N. face, from which  
A mesquite, 6 in. diam., bears  $N. 34 \frac{1}{4}^{\circ} E. 268$  lbs. dist., marked  
1/4 S. 11 B.S.  
A mesquite, 6 in. diam., bears  $N. 5^{\circ} W. 2.08$  lbs. dist., marked  
1/4 S. 10 B.S.

43.00 Spur, thence a long E. slope of ridge.

47.00 Begin descent through scattering mesquite timber and dense  
brush.

73.00  
Creek, 60 lbs. wide, course N. E. asterly; ascend through scattering  
oak.

75.70 Spur, extending N. Easterly; descend.

80.00 Set a sandstone, 16x10x5 in., 12 in. in the ground, for cor. of sec.  
12, 11, 14 and 15, marked with 2 notches on E. and 4 notches on S.  
edges, from which  
A cedar, 12 in. diam., bears S. 19 1/4° E., 38 lbs. dist. marked  
S. 15 S. 16 S. & 14 B.S. no other trees within limit. used as a  
ground of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Pits im-  
practicable.

Land, mountainous.  
Soil, gravelly loam, stony and rocky; 2nd, 3rd and 4th rate.  
Timber, scattering mesquite and cedar; undergrowth, mesquite,  
locust, palmito, Spanish bayonet and cacti.  
Mountainous or land covered with dense undergrowth, 80.00 chs.  
August 10: At this cor. I set off  $15^{\circ} 33' 7''$  on the decl. and  
and at 12<sup>30</sup> m. t., observe the sun on the meridian; the resulting  
lat. is  $31^{\circ} 52' 7''$  or within '1' of the proper lat.

S. 89°50' W., on a random line bet. sec. 10 and 15.

Chains  
 40.00 Set comp 1/4 sec. cor.  
 80.02 Enter set N. and S. line in lks. S of the cor. of sec. 9, 10, 15 and 16.  
 80.00 Lower S run  
 N. 89° 54' E., on a true line bet. sec. 10 and 15.  
 Over mountainous land, ascending.  
 .80 Gulch, 10 lks. wide, course S. westerly; ascend.  
 7.00 Bridge, across N. and S. descend.  
 13.30 Small gulch, course S. Easterly; ascend.  
 18.00 Top of S. slope of ridge, begin strip descent.  
 40.00 Set a sandstone, 18 x 10 x 8 ins., in mid. in the ground, for 1/4 sec. cor.  
 51.00 marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor. Site impracticable.  
 47.00 Enter scattering mesquite timber and dense brush, bear N. and S.  
 51.00 Enter gulch, 50 ft. below slope of ridge, course Easterly.  
 56.00 Lower gulch and ascend.  
 58.00 Top, across N. and S. descend.  
 68.00 Gulch, 1 ch. wide, course N. Easterly; ascend.  
 72.00 Top of spur extending N. Easterly; descend.  
 80.00 1/4 hr. cor. of sec. 10, 11, 14 and 15.  
 Land, mountainous.  
 Soil, gravelly loam, stony and rocky; 2nd, 3rd. and 4th rates.  
 Timber, scattering mesquite and cedar, undergrowth, mesquite, hola, amole, prachillo, Spanish bayonet and cacti.  
 Mountainous or land covered with dense undergrowth, 80.02 chs.

See page 5 for supplemental notes

See page 5 for supplemental notes for this mile.

S. 0° 00' N., bet. sec. 14 and 15.  
 Over mountainous land, ascending through scattering cedar and dry brush.  
 10.50 Lower scattering timber and dense brush, bear N. Westerly and S. Easterly.  
 17.50 Top, thence along E. slope of ridge.  
 22.50 Descend.  
 30.00 Small gulch, course Easterly; ascend.  
 38.00 Top of ridge, across E. and W., descend through dense twola brush.  
 40.00 Set a conglomerate stone, 18 x 12 x 5 ins., in mid. in the ground, for 1/4 sec. cor.  
 41.00 marked 1/4 on W. face; and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Site impracticable.  
 46.50 Gulch, 10 lks. wide, course S. Easterly; ascend.  
 50.70 Spur extending Easterly; descend.  
 56.00 Gulch, 10 lks. wide, course Easterly; ascend.

64.57 Spur, extending N. Easterly; descend.  
 64.00 Enter Brown canyon, course N. N. W.  
 64.65 Road, bears N. W. and S. W.  
 76.00 Broad canyon and ascend.  
 81.00 Set a sandstone, 18 x 14 x 4 in., 12 in. in the ground, for cor. of secs. 14, 15, 22 and 23, marked with 2 notches on E. and 3 notches on S. edges; from which  
 A rock, 8 in. diam., bears N. 66 1/2° E., 439 lbs. dist., marked S 18 S B 16 E S 14 B S.  
 A mesquite, 6 in. diam., bears S. 77 1/4° E., 85 lbs. dist., marked S 18 S B 16 E S 23 B S; no other trees available and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor. Pits impracticable.  
 Ground, mountainous and level.  
 Soil, generally and stony; 3rd. and 4th. cuts.  
 Scattering mesquite and cedar timber; undergrowth, mesquite, Yucca, Palo Verde, Spanish bayonet and cacti.  
 Mountainous or level covered with dense undergrowth, 81.00 chs.  
 August 10, 1904.

August 11: At 7:00 a.m. l.v.t. I set off ~~31° 51' N~~ on the lat. arc. 15° 19' N on the decl. arc, and determined a meridian with the polar at the cor. of secs. 14, 15, 22 and 23.

3 hauls  
 S. 89° 54' W., on a random line bet. secs 15 and 22.  
 40.00 Set trap. 1/4 sec. cor.  
 81.00 Intersect N. and S. line 11 lbs. N. of the cor. of secs. 15, 16, 21 and 22.  
 3 hauls  
 N. 89° 51' E., on a true line bet. secs. 15 and 22.  
 Over mountainous land, ascending.  
 8.57 Top of ridge, bears N. W. and S. E.; descend.  
 14.00 Gulch, 10 lbs. wide, course N. Easterly; ascend.  
 26.70 Top of N. slope of ridge; descend.  
 36.80 Gulch, 15 lbs. wide, course S.; enter dense brush.  
 39.00 Set a sandstone, 18 x 10 x 8 in., 12 in. in the ground, for witness cor. to 1/4 sec. cor. marked N. 6 1/4° on N. face; from which  
 A mesquite, 6 in. diam., bears N. 27° E., 93 lbs. dist., marked N. 6 1/4° S 15 B S.  
 A mesquite, 6 in. diam., bears S. 28 1/4° W., 117 lbs. dist., marked N. 6 1/4° S 22 B S; and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.  
 40.00 On edge of canyon.  
 41.00 Enter Brown canyon, course N. E.

67.00 Board, bars N. Easterly and S. Westerly.  
 68.50 Level canyon; ascend.  
 73.00 Level, dense brush, bars N. Easterly and S. Westerly.  
 77.80 Top of ridge, bars N. Easterly and S. Westerly; descend.  
 80.00 Set ev. of sec. 14, 15, 22 and 23.  
 Land, mountainous and level.  
 Soil, sandy and gravelly, 2nd, 3rd, and 4th rates.  
 Timber, scattering mesquite; undergrowth, mesquite, hots and cacti.  
 Mountainous or land covered with dense undergrowth, 80.00 chs.

S. 11° 12' N., bet. sec. 22 and 23.  
 Over mountainous land, descending through dense hots undergrowth.  
 800 Guleh, 12 lbs. high, course N. N. E.; ascend.  
 7.00 Level dense hots, bars N. E. and S. W.; ascend.  
 21.80 Top of ridge, 250 ft. above guleh, bars N. E. and S. W.; descend.  
 37.00 Bar, bars E. and W.; thence over rolling land.  
 40.00 Set a sandstone, 18x10x6 ins. in the ground, for 1/4 sec. ev. marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of ev. Pit impracticable.  
 80.00 Set a sandstone, 18x10x5 ins., 12 ins. in the ground, for ev. of sec. 22, 23, 26 and 27, marked with a notch on E. and S. edges, from which  
 A mesquite, 5 ins. diam., bar S. 10° E., 192 lbs. dist., marked S 18 S R 16 E S 26 B S; no other trees within limit, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of ev. Pit impracticable.  
 Land, rolling and mountainous.  
 Soil, gravelly loam and stony; 2nd, 3rd, and 4th rates.  
 Timber, a few mesquite and cedar; undergrowth, hots, yucca and ocotillo cactus.  
 Mountainous land, 37.00 chs.

August 11, 1904.

August 12: At 7<sup>h</sup> 15<sup>m</sup> a.m., l.m.t., set off 15° 2' on the lat. arc; 31° 50' 3/4 on the decl. arc; and determine a meridian with the solar at the ev. of sec. 22, 23, 26 and 27.  
 Plumer & Run  
 S. 89° 50' N., on a random line bet. sec. 22 and 27.  
 44.00 Set temp. 1/4 sec. ev.  
 80.00 Distinct N. and S. line 24 lbs. S. of the ev. of sec. 21, 22, 27 and 28.  
 Plumer & Run  
 East, on a true line bet. sec. 22 and 27.

Chain  
 2.00 Over mountainous land, ascending.  
 6.00 Dip of spur, extending Northwly; descend.  
 23.50 Draw, 1 ch. wide, course Northwly; ascend.  
 34.30 Dip of spur, extending Northwly; descend.  
 34.30 Gulch, 10 lbs. wide, course Northwly; ascend.  
 40.03 Set a sandstone, 18 x 10 x 9 in., 1 1/2 in. 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. Pith impracticable.  
 44.00 Dip of ridge, bears N. N. Easterly and S. S. Westerly; descend.  
 50.30 Dry wash, 15 lbs. wide, course N. E. asterly; ascend.  
 60.00 N. slope of ridge; descend.  
 80.06 In cor. of sec. 22, 23, 26 and 27.  
 Land, mountainous.  
 Soil, gravelly loam and stony; end. 3rd. and 4th water.  
 Timber, scattering cedar, undergrowth, bruta, mosquito and cacti.  
 Mountainous land, 80.06 ch.

S. 0° 02' N., bet. sec. 26 and 27.  
 Over rolling land, through dense brush.  
 7.20 Dry wash, 20 lbs. wide, course N. Easterly.  
 29.50 Dry wash, 30 lbs. wide, course N. Easterly.  
 40.00 Set a sandstone, 18 x 10 x 6 in., 1 1/2 in. in the ground, for 1/4 sec. cor. marked 1/4 on N. face, from which  
 An ash, 7 in. diam., bears N. 75° E., 176 lbs. dist., marked 1/4 S. 26 B. S.  
 An ash, 7 in. diam., bears S. 19° W., 267 lbs. dist., marked 1/4 S. 27 B. S.; and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.  
 45.00 Road less N. 1/2 and S. 1/2.  
 71.00 Water tank, bears 2 chs. N.  
 80.00 Set a limestone, 18 x 8 x 5 in., 1 1/2 in. in the ground, for cor. of sec. 26, 27, 34 and 35; marked with 2 notches on E. and 1 notch on S. ridge; and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor. Pith impracticable.  
 Land, rolling and broken.  
 Soil, gravelly loam and stony; end. 3rd. and 4th water.  
 Timber, scattering mosquito and cedar; undergrowth, mosquito, bruta and cacti.  
 Land covered with dense undergrowth, 80.00 ch.  
 August 12. At this cor. I set off 14° 57' N on the decl. arc; and at 11<sup>h</sup> 55<sup>m</sup> l. m. t., observed the sun on the meridian; the resulting lat. is 31° 50' N.

Chains Past, on a random line bet. sec. 27 and 34.  
 40.00 Set timber  $\frac{1}{4}$  sec. cor.  
 80.18 Enter sec N. and S. line at the cor. of sec. 27, 28, 33 and 34.  
 Thence E run  
 East, on a true line bet. sec 27 and 34.  
 Over mountainous land, descending.  
 35.00 Dry wash, 300 ft. below sec. cor. 50 lbs. wide, course N. Easterly; ascend.  
 40.09 Set a sandstone, 18x10x6 ins., 12 ins. in the ground, for  $\frac{1}{4}$  sec. cor.  
 marked  $\frac{1}{4}$  on N. face; from which  
 61 An oak, 10 ins. diam., bears N. 17° N., 308 lbs. dist., marked  
 $\frac{1}{4}$  S. 27° B. S. on other true and raise a mound of stone, 2 ft. base,  
 12 ft. high, N. of cor. Pits impracticable. From this cor. the  
 X Chapey house bears N. 34  $\frac{1}{2}$ ° E., about 30 chs. dist., descend.  
 44.30 Dry wash, 10 lbs. wide, course N. Westerly.  
 66.70 Enter wash, course Northerly.  
 67.70 Leave wash.  
 80.18 The cor. of sec. 26, 27, 34 and 35.  
 Land, mountainous.  
 Soil, gravelly loam and stony; 2nd, 3rd. and 4th rates.  
 Timber, scattering oak and mesquite; underground, mesquite,  
 mesota and cacti.  
 Mountainous land, 80.18 chs.

S. 0° 02' W. on a true line bet. sec. 34 and 35.  
 Over mountainous land, descending.  
 14.00 Gulch, 15 lbs. wide, course N. Easterly; ascend. N.E. slope of spur.  
 40.00 Set a sandstone, 18x10x8 ins., 12 ins. in the ground, for  $\frac{1}{4}$  sec.  
 61 cor. marked  $\frac{1}{4}$  on N. face; from which  
 An cedar, 24 ins. diam., bears N. 55° E., 324 lbs. dist., marked  
 $\frac{1}{4}$  S. 35° B. S. on other true. and raise a mound of stone, 2 ft.  
 base, 12 ft. high, W. of cor. Pits impracticable.  
 42.50 Gulch, 40 lbs. wide, course N. Easterly.  
 44.40 Top of ridge, 300 above gulch, bears E. and W.; descend.  
 55.50 Enter draw, course N. Easterly.  
 56.30 Old road, bears Easterly and Westerly.  
 59.70 Leave draw, ascend N. slope ridge  
 79.00 Enter sec S. bay of the Sp. 547 lbs. E. of the cor. of sec. 2  
 and 3, S 19 S. R. 16 E., as heretofore described.  
 Set a granite stone, 18x8x6 ins., 12 ins. in the ground, for closing  
 cor. of sec. 34 and 35; marked C C on N.; with 2 grooves on E.  
 and 4 grooves on W. face; and raise a mound of stone, 2 ft.

Chain

OK

Case, 1/2 ft. high, N. of cor. Sit. impracticable.  
Sand, mountains.  
Soil, gravelly loam and stony; 2nd., 3rd., and 4th. rates.  
Timber, scattering oak and cedar, undergrowth, oak and cacti.  
Mountainous land, 79.00 chs.

August 12, 1914.

August 13. At 4<sup>20</sup> a.m. l.m.t., I set off 31054' N on the  
lat. line 140° 43' N on the cor. and, and examine a series  
dip with the solar at the cor. of sres. 1, 2, 35 and 36 on the  
N. edge of the S.P.; as heretofore described.

For this mile  
see supplemental  
notes page 9.

Shower 3 mm  
S. 0° 03' N. lat. sres. 1 and 2.  
Over rolling land, through scattering mountain timber and  
dense brush.

11.00 Guleh, 20 lbs. wide, course N. Easterly; begin gradual ascent.

40.00 Set a post into stone, 18 x 12 x 8 ins., 12 ins. in the ground, for  
4 sres. cor. marked 4 on N. face and raise a mound of stone  
2 ft. base, 1 1/2 ft. high, N. of cor. Sit. impracticable.

52.00 Ridge, bars Easterly and Westerly; descend.

61.85 Guleh, 20 lbs. wide, course N. Easterly; ascend.

74.00 Dip, bars N. Easterly and S. Westerly; steeper over level land.

80.00 Set a sandstone, 20 x 12 x 8 ins., 15 ins. in the ground; for cor. of  
sres. 1, 2, 11 and 12, marked with 1 notch on E. and 5 notches on S.  
face; from which

A mesquite, 6 ins. diam., bears N 65 3/4 E, 182 lbs. dist., marked  
S 18 S R 16 E S 1 B S.

A mesquite, 6 ins. diam., bears N 27 1/2 W, 208 lbs. dist., marked  
S 18 S R 16 E S 2 B S; in other trees within limit and raised a  
mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor. Sit. impracticable.  
Land, rolling and level.

Soil, gravelly loam and stony; 2nd., 3rd. and 4th. rates.  
Timber, scattering mesquite. Undergrowth mesquite, tree, amole,  
palmito, Spanish bayonet and cacti.  
Land covered with dense undergrowth, 80.00 chs.

Wst. on a random line bet. sres. 2 and 11.

40.00 Set temp. 4 sres. cor.

80.00 Intersect N. and S. line 24 lbs. N. of the cor. of sres. 2, 3, 11  
and 11.

Shower 3 mm

Further mile  
see supplemental  
notes page 9.

6 hrs. N. 89° 50' E., on a true line bet. sec. 2 and 11.  
 Over mountainous land, ascending.  
 2.00 ✓ Dip of N. slope of ridge; descend.  
 3 2.00 ✓ Enter dense brush, bet. N. and S.  
 4 0.00 Set a sandstone, 18x10x8 ins., 12 ins. in the ground, for 1/4 sec. cor.  
 f1 marked 1/4 on N. face, and raise a mound of stone, 2 ft. base,  
 1 1/2 ft. high, N. of cor. Site impracticable.  
 4 2.00 Small dry wash, 200 ft. below slope of ridge, course N. Easterly;  
 ascend.  
 5 4.00 ✓ N. side of mound hill; descend.  
 7 2.00 ✓ Gully, 180 ft. below hill, 20 lbs. wide, course Northerly; thence  
 over level land.  
 8 0.00 ✓ 1/4 cor. of sec. 1, 2, 11 and 12.  
 Land mountainous and level.  
 Soil, sandy and gravelly loam and stony; 2nd, 3rd and  
 4th rates.  
 Timber, scattering cedar and mesquite; underground, mesquite,  
 Texas, prunella, Spanish bayonet and cacti.  
 Mountainous or land covered with dense undergrowth, 80.00 ch.

For this mile  
 see supplemental  
 notes page 10.

East, on a true line bet. sec. 1 and 12.  
 Over level land, through scattering mesquite timber and dense  
 brush.  
 3.00 ✓ Descend.  
 16.85 ✓ Enter Davidson's canyon, course Northerly.  
 27.15 ✓ Road, bet. Northerly and Southerly.  
 37.00 ✓ Leave canyon and dense brush; ascend.  
 39.50 ✓ The base N. and S. 11 miles over level land.  
 4 0.00 Set a sandstone, 18x8x5 ins., 12 ins. in the ground, for 1/4 sec. cor.  
 marked 1/4 on N. face; from which  
 A spale rock 6 ins. diam, bet. S. 42 1/4° E., 133 lbs. dist, marked  
 1/4 S. 12° 13' E.  
 A mesquite, 8 ins. diam, bet. N. 28 3/4° N., 227 lbs. dist, marked  
 1/4 S. 1° 13' E.  
 63.00 ✓ Dip gully, 30 lbs. wide; ascend. ~~Ascend~~  
 73.16 ✓ Enter ret. E. bay. of the Dr. 297 lbs. N. of the cor. of sec. 7 and  
 12, P. 18 S., R. 17 E., as heretofore described.  
 82 ✓ Set a granite stone, 18x10x6 ins., 12 ins. in the ground for closing  
 cor. of sec. 1 and 12, marked C Cor N.; with 1 groove on N.  
 and 5 grooves on S. face, and raise a mound of stone, 3 ft. base,  
 2 ft. high, N. of cor. Site impracticable.  
 Land, mountainous and level.



Chain

Soil, gravelly loam and stony; 2nd, 3rd. and 4th rats.  
Timber, scattering mesquite, undergrowth, mesquite, tosoa and cacti.  
Mountains or land covered with dense undergrowth, 49.66 chs.

S. 0° 13' W., bet. s res. 11 and 12.

Over level land, through scattering mesquite timber and dense bush.

8.00 Begin descent.

20.00 Enter Davidson's canyon, course N. Easterly.

25.30 Road, course N. N. Easterly and S. S. Westerly.

26.50 Leave canyon, ascend.

39.60 Set a sandstone, 20 x 8 x 6 ins., 15 ins. in the ground, for <sup>marker</sup> cor. of <sup>sec.</sup> 4 s res.  
OK cor. marked <sup>14.5</sup> on N. face and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable.

40.00 Small gulch, course N. S. Westerly; ascend.

52.10 Spur 200 ft. above gulch, extending N. Westerly; descend.

67.00 Enter draw, 100 ft. below spur, course Westerly.

73.00 Leave draw; ascend.

81.00 Set a sandstone, 18 x 8 x 6 ins., 12 ins. in the ground, for cor. of s res.  
OK 11, 12, 13 and 14, marked with 1 notch on E. and 4 notches on S. ridge, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable.

Land, mountains.

Soil, gravelly loam and stony; 2nd, 3rd. and 4th rats.  
Timber, scattering mesquite, undergrowth, mesquite, tosoa, Spanish bayonet, palmito and cacti.

Mountains or land covered with dense undergrowth, 80.00 chs.

August 13. At first cor. I set off 14° 39' N., on the decl. arc, and at 12 h 5 m l. m. t., observed the sun on the meridian; the resulting lat. is 31° 52' 32"

S. 89° 50' W., on a random line bet s res. 11 and 14.

40.00 Set temp. 1/4 s res. cor.

80.00 Intersect N. and S. line at the cor. of s res. 10, 11, 14 and 15.

Plumer & run

N. 89° 50' E., on a true line bet. s res. 11 and 14.

Over mountainous land, ascending through scattering mesquite timber and dense bush.

6.00 Gulch, 10 lbs. wide, course N. Easterly; ascend.

10.00 Spur, extending Northerly; descend.

16.00 Gulch, 15 lbs. wide, course Northerly; ascend.

24.00 Spur, extending Northerly; descend.

For this mile see supplemental notes page 11.

See 1/4 cor. per supplemental notes page 8

see supplemental notes page 6 for this mile;

Subdivision of S. 18 S., R. 16 E.

Chained  
28.00 Gulch, 20 lbs. wide, course Northwly, ascend.  
40.03 Set a sundstone, 18x12x10 ins., 1 1/2 ins. in the ground, for 1/4 sec. ev. marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of ev. Ditch impracticable.  
43.50 Top of ridge, cross Northwly and Southwly; begin steep descent.  
51.00 Enter Davidson's canyon, course Northwly.  
56.00 Road, cross Northwly and Southwly.  
59.70 Cross canyon; ascend.  
64.00 Land scattering timber and dense brush, cross Northwly and Southwly.  
65.20 Deep gulch, 20 lbs. wide, course N. Westerly.  
73.00 Top of N. slope of ridge.  
77.00 Descent.  
80.06 Top ev. of secs. 11, 12, 13 and 14.  
Land, mountainous.  
Soil, gravelly loam, stony and rocky; 2nd, 3rd and 4th rates.  
Timber, scattering mesquite, undergrowth, mesquite, tesota and cacti.  
Mountainous or land covered with dense undergrowth, 80.06 chd.

East, on a line bet. secs. 12 and 13.  
Over mountainous land, descending through scattering mesquite timber and dense undergrowth.

6.00 Gulch, 30 lbs. wide, course Northwly; ascend.  
13.00 Top, cross N. and S. thence ascend gradually.  
22.00 Land scattering timber and dense undergrowth, cross N. Easterly and S. Westerly.  
35.00 Gulch, 20 lbs. wide, course N. Westerly.  
40.00 Set a calceolium stone 18x8x8 ins., 1 1/2 ins. in the ground, for 1/4 sec. ev. marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of ev.  
68.40 Deep gulch, 20 lbs. wide, course N. Westerly; ascend.  
73.25 Put in set E. by of the Spr. 3.00 lbs. N. of the ev. of secs. 17 and 18, Spr. 18 S., 18 1/2 E. as heretofore described.  
Set a quartzite stone, 20x8x6 ins., 15 ins. in the ground, for showing ev. of secs. 12 and 13, marked 66 on N. with 2 grooves on N. and 4 grooves on S. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of ev. Ditch impracticable.  
Land, gently rolling, level and mountainous.  
Soil, gravelly loam, stony and rocky; 2nd, 3rd and 4th rates.  
Timber, scattering mesquite, undergrowth, mesquite, tesota and cacti.

See page 5  
supplemental  
notes for this  
mile.

6 hours.

Mountainous or land covered with dense undergrowth, 26.85 chs.  
August 13, 1904.

August 14: At 7<sup>10</sup> a.m., l.m.t., I set off 31°52' N on the lat. wire. 14°24' N. on the elev. wire and determined a meridian with the solar at the cor. of sec. 11, 12, 13 and 14.

Shaded 3 pm  
S. 0°03' W, bet. sec. 13 and 14.

Over mountainous land ascending.

- 2.00 Ridge, trend easterly and westerly, descend.
- 7.00 Trail begins as emb along <sup>w</sup> E slope of ridge.
- 24.00 Sides of slope; descend.
- 28.45 Small gulch, trend N. westerly; ascend.
- 34.00 Sides of W slope of ridge; descend.
- 35.40 Gulch, 15 lbs. wide, trend S. westerly; ascend.
- 36.00 Sides of E slope of ridge; descend.
- 39.00 Gulch, 15 lbs. wide, trend S. westerly.
- 41.00 Set a prophylaxy stone, 18x10x8 ins., 12 ins. in the ground, for cor. marked 4 on W. face and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor. Site impracticable.
- 43.20 Dry wash, 20 lbs. wide, trend westerly; ascend.
- 47.40 Dry wash, 20 lbs. wide, trend westerly.
- 60.00 Sides of high ridge, trend easterly and westerly; descend.
- 66.00 Trail, trend easterly and westerly; ascend.
- 70.00 Spur extending easterly; descend.
- 76.45 Gulch, 20 lbs. wide, trend S. westerly; ascend.
- 80.00 Set a sandstone, 20x8x6 ins., 15 ins. in the ground, for cor. of sec. 13, 14, 23 and 24; marked with 1 notch on E. and 3 notches on S. edge and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor. Site impracticable. This cor. stands 50 ft. above Davidson canyon.

Land mountainous.

Soil, generally lump and stony; 2nd, 3rd and 4th rates.

Timber, scattering mesquite, undergrowth, mesquite and cacti.

Mountainous land, 80.00 chs.

S. 89°50' W, on a random line bet. sec. 14 and 23.

40.00 Set kmp. A sec. cor.

80.04 Intersect. L. and S. line 5 lbs. S. of the cor. of sec. 14, 15, 22 and 23.

Shaded 3 pm

N. 89°52' E, on a true line bet. sec. 14 and 23.

For 1/4 cor. see supplemental notes page 8

Chains

- Over mountainous land, descending through dense brush.
- 1.85 Gulch, 10 lbs. wide, course N. West by; ascend.
- 5.55 Gulch, 10 lbs. wide, course West by.
- 11.00 S. slope of ridge; descend.
- 17.60 Gulch, 15 lbs. wide, course N. East by; begin ascent along N. slope of ridge.
- 32.00 Top of slope; descend.
- 40.00 Set a sandstone, 20 x 10 x 6 in., 15 in. in the ground, for 1/4 sec. ev. marked 4 on N. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of ev. Pits impracticable.
- 42.00 Gull bars North by and South by; ascend.
- 50.00 Top of spur, extending south by; descend.
- 55.00 Small gulch, course South by; descend.
- 61.00 Top, bars N. West by and S. East by; descend.
- 71.05 Road, bars N. West by and S. East by.
- 73.50 Davidson's canyon, 150 lbs. wide, course North by; ascend.
- 80.04 S. ev. of secs 13, 14, 23 and 24.

Land mountainous.  
 Soil, gravelly loam, stony and rocky; 2nd, 3rd and 4th rats.  
 Timber, scattering cedar and mesquite; undergrowth, mesquite, bush and cacti.  
 Mountainous land, 80.04 chs.

East, on a true line bet. secs. 13 and 24.

- Over mountainous land, ascending.
- 17.70 Top of S. slope of ridge, 300 ft. above sec. ev.; descend.
- 23.50 Gulch, 10 lbs. wide, course S. West by; ascend.
- 40.00 Set a paving stone, 15 x 10 x 8 in., 12 in. in the ground, for 1/4 sec. ev. marked 4 on N. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of ev. Pits impracticable.
- 63.20 Ridge, bars N. and S.; descend.
- 70.00 Gulch 15 lbs. wide, course S. East by, ascend.
- 73.40 Intersect E. by. of the Sp. 200 lbs. N. of the ev. of secs. 18 and 19, S. 18 S., R. 17 E., as heretofore described.
- Set a limestone, 18 x 8 x 6 in. in the ground, for closing ev. of secs. 13 and 24, marked 66 on N. with 3 grooves on N. and S. faces; and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of ev. Pits impracticable.

Land, mountainous.  
 Soil, gravelly, stony and rocky; 3rd and 4th rats.  
 Timber.  
 Mountainous land, 73.40 chs.

6 hours

August 17: At this ev. I set off  $14^{\circ} 20'$  N. on the decl. arc, and at  $12^h 2^m$  l. m. t., observed the sun on the meridian. The resulting lat. is  $31^{\circ} 52'$  N.

S.  $11^{\circ} 13'$  N., bet. sec. 23 and 24.

Over mountainous land, ascending

- 1.00 Spur, extending S. Westerly; descend
  - 4.65 Gulch, in the wide course Westerly; ascend
  - 9.00 Spur, runs N. Easterly and S. Westerly; descend.
  - 22.00 Gulch, in the wide course, Westerly; ascend.
  - 25.00 Spur, extending Westerly; enter scattering cedar and mesquite timber and dense undergrowth, run Easterly and Westerly; descend.
  - 27.40 Gulch, 20 lbs. wide, course S. Westerly; ascend.
  - 33.00 Spur, extending N. Westerly; descend.
  - 40.00 Set a sandstone,  $18 \times 6 \times 6$  in., 12 in. in the ground, for  $\frac{1}{4}$  sec. ev. marked  $\frac{1}{4}$  on N. face, from which  
A cedar, 8 in. diam., bears N.  $87^{\circ} \frac{1}{2}$  E., 250 lbs. dist., marked  $\frac{1}{4}$  S 24 B S.  
A mesquite, 12 in. diam., bears S.  $84^{\circ}$  N., 150 lbs. dist., marked  $\frac{1}{4}$  S 23 B S.
  - 44.00 Gulch, 60 lbs. wide course N. Westerly; ascend.
  - 50.80 Spur, extending N. Easterly; descend.
  - 51.50 Enter same gulch, course N. Easterly.
  - 55.00 Enter gulch, ascend.
  - 61.50 Top of round hill, descend over broken ground.
  - 75.50 Gulch, 40 lbs. wide, course N. Easterly; ascend.
  - 80.00 Set a sandstone,  $18 \times 8 \times 6$  in., 12 in. in the ground, for ev. of sec. 23, 24, 25 and 26; marked with 1 notch on E. and 2 notches on S. edge; from which  
A mesquite, 5 in. diam., bears S.  $9^{\circ} \frac{3}{4}$  E., 89 lbs. dist., marked B 18 S 16 E S 25 B S.  
A mesquite, 5 in. diam., bears S.  $50^{\circ} \frac{1}{2}$  N., 142 lbs. dist., marked S 18 S 16 E S 26 B S. in other trees within limit, and raise a square of stone, 2 ft. base,  $\frac{1}{2}$  ft. high, N. of ev. Side impracticable.
- Land, broken and mountainous.  
Soil, generally loam and stony; 2nd, 3rd. and 4th rates.  
Timber, scattering cedar and mesquite, undergrowth, mesquite, tisate and cacti.  
Mountainous or land covered with dense undergrowth, 80.00 lbs.

Subdivision of S. 18 S., R. 16 E.

6 hrs. / S. 89° 52' N., on a random line bet. secs 23 and 26.  
 40.00 Set temp. 4 sec. cor.  
 80.00 Enter sec N. and S. line ~~47~~<sup>10</sup> lbs. S. of the cor. of sec. 22, 23, 26 and 27.  
 Plumer & Gunn  
 N 89° 56' E., on a true line bet. secs. 23 and 26.  
 Over broken land, through scattering mesquite and cedar timber and dense brush.  
 34.00 Davidson's canyon, 2 chs. wide, course Northwly; thence over level land.  
 38.55 Road, bears Northwly and Southwly.  
 40.00 Set a sandstone 18x10x8 in., 12 in. in the ground, for 7 sec. cor. marked ~~4~~ ~~11~~ ~~from which~~  
~~A mesquite 10 in. diam., bears S 25° E., 37 lbs. dist., marked 7 S 25 B S.~~  
~~A mesquite 5 in. diam., bears N 38° W, 62 lbs. dist., marked 4 S 23 B S.~~  
 47.00 Road dense brush, bears N. Easterly and S. Westerly; ascend  
 64.00 Ridge, bears Northwly and Southwly; descend.  
 70.00 Enter dense brush, bears N. Easterly and S. Westerly.  
 75.30 Gulch, 40 lbs. wide, course Northwly; ascend.  
 80.00 The cor. of sec. 23, 24, 25 and 26.  
 Land broken, mountainous and level.  
 Soil, generally lumpy and stony; 2nd, 3rd and 4th rates.  
 Timber, scattering mesquite and cedar; undergrowth, mesquite and hickory.  
 Mountainous or land covered with dense undergrowth, 80.00 chs.  
 August 14, 1904.

August 15: At 7<sup>h</sup> 00<sup>m</sup> a.m. l.m.t., I set off 31° 50' N on the lat. and 140° 6' W on the circ. arc. and determine a meridian with the solar at the cor. of sec. 23, 24, 25 and 26.  
 Plumer & Gunn  
 East, on a true line bet. sec. 24 and 25.  
 Over mountainous land, ascending through scattering mesquite and cedar timber and dense brush.  
 12.00 Leave dense undergrowth, bears N. Easterly and S. Westerly.  
 20.30 Top of spur, 200 ft. above sec. cor.; bears N. Westerly and S. Easterly; descend.  
 25.50 Gulch, 100 ft. below top of spur, 15 lbs. wide, course Northwly; begin steep ascent.

6hains  
34.00 Top of ridge 2411 ft. above gulch, bears N. and S. descend.  
39.00 Gulch, 100 ft. below top of ridge; 15 lbs. wide, course N. Easterly; ascend.  
40.00 Set a sandstone 20x8x6 ins., 15 ins. in the ground, for 4 sec. ev. marked  $\frac{1}{4}$  on N. face; from which  
A rock, 6 ins. diam., bears N. 44° E., 47 lbs. dist., marked  $\frac{1}{4}$  S 24° S; no other trees within limit and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of ev. Pits impracticable.  
43.75 Spruce, extending Northwly; descend.  
52.70 Gulch 40 lbs. wide course Northwly; ascend.  
68.70 Top of N. slope of ridge; descend.  
73.60 Enter set E. base of the Sp. at the ev. of <sup>24, 25</sup> ~~sec. 24~~ and 30, Sp. 18 S., R. 17 E., as heretofore described.  
~~Set a sandstone, 20x8x6 ins., 15 ins. in the ground, for closing ev. of sec. 24 and as marked to E. on N. with 4 grooves on N. and 2 grooves in S. face and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of ev. Pits impracticable.~~  
Land, mountainous  
Soil, gravelly loam and stony; 2nd, 3rd and 4th rate.  
Timber, scattering musquitos and cedar; undergrowth, musquitos and brata.  
Mountainous or land covered with dense undergrowth, 73.60 chs.

S. 17° 03' N., bet. sec. 25 and 26.  
Over mountainous land, along N. slope of ridge, through dense brush.  
35.00 Descend.  
37.00 Set a sandstone, 18x8x6 ins., 12 ins. in the ground, for witness ev. to 4 sec. ev. marked N 6 1/4 on N. face, from which  
A musquitos, 12 ins. diam., bears N. 56° E., 147 lbs. dist., marked N 6 1/4 S 25° 13 S; no other trees within limit and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of ev. Pits impracticable.  
39.80 Enter dry wash, course N. Westerly.  
40.00 Cor. point falls in wash  
42.00 Leave wash.  
79.00 Enter dry wash, course N. N. Westerly.  
80.00 Cor. point falls in wash.  
81.50 Leave wash and ascend.  
81.00 Set a granite stone, 18x8x6 ins., 12 ins. in the ground, for witness ev. to ev. of <sup>mid 36</sup> sec. 25, 26, 35, marked N 6, with 1 notch on E. and S. ridges; from which  
A cedar, 8 ins. diam., bears N. 77° W., 157 lbs. dist., marked N 6 S 18 S R 16 E S 26° 13 S; no other trees within limits; and

6 hours  
 0/2  
 1  
 raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.  
 Site impracticable.  
 Land, mountainous.  
 Soil, gravelly, stony and rocky; 2nd, 3rd and 4th mats.  
 Timber scattering mesquite and cedar; undergrowth, mesquite,  
 taro and cacti.  
 Mountainous or land covered with dense undergrowth, 80.00 chd.

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40.00 S. 89° 56' W., on a random line bet. sec. 26 and 35; from cor. point  
 Set mark 1/4 sec. cor.  
 80.00 Intersect N. and S. line 10 lbs. N. of the cor. of sec. 26, 27, 34 and 35.  
 Placer & run  
 East, on a true line bet. sec. 26 and 35.  
 Over mountainous land ascending, through dense brush.  
 1.00 Spur, extending southerly; descend.  
 5.00 Small gulch, course southerly; ascend through heavy mesquite  
 timber.  
 8.00 Ridges, bear northerly and southerly; descend.  
 12.00 Enter Divisor's canyon, course northerly.  
 25.00 Leave canyon and timber; ascend.  
 27.00 Ridges, bear N. Westerly and S. Easterly.  
 28.50 Old road, bear N. Westerly and S. Easterly.  
 29.50 Descend.  
 31.00 Dry wash, 30 lbs. wide, course northerly; ascend  
 33.00 Spur, extending N. W.; descend.  
 40.00 Set a porphyry stone, 18 x 10 x 8 ins., 12 ins. in the ground, for 1/4 sec.  
 cor. marked 1/4 on N. face, from which  
 A tract, 5 mol. diam., bears S. 8° W., 210 lbs. dist., marked  
 1/4 S 35-B P.  
 A mesquite, 10 ins. diam., bears N. 34° W., 82 lbs. dist., marked  
 1/4 S 26 B S.; and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N.  
 of cor.  
 41.70 Dry wash, 20 lbs. wide, course S. Easterly; ascend.  
 43.00 Spur, extending northerly; descend.  
 43.70 Dry wash, 20 lbs. wide, course S. Easterly; ascend.  
 47.00 Ridges, bear N. Westerly and S. Easterly; descend.  
 48.50 Dry wash, 20 lbs. wide, course S. Easterly; ascend.  
 54.80 Bituminous cedar stumps, bears 10 lbs. N.  
 55.00 Ridges, bear N. and S.; descend.  
 59.15 Dry wash, 10 lbs. wide, course northerly.  
 64.50 Dry wash, 30 lbs. wide, course N. Easterly; ascend.



67.00 Spur, extending Northerly; descend.  
 71.70 Dry wash, 15 lbs. wide, course Northerly; ascend.  
 74.00 Ridge, bears Northerly and Southerly; descend.  
 81.00 1 hr. ev. point of sec. 25, 26, 35 and 36.  
 Land, mountainous.  
 Soil, gravelly loam and stony; 2nd, 3rd and 4th rates.  
 Timber, mesquite, undergrowth, mesquite, brush and pacts.  
 Mountains, heavily timbered or land covered with dense undergrowth, 80.00 hrs.  
 August 15: At this ev. I set off ~~14° 2'~~ <sup>14° 1' N</sup> in the pred. arc, and at 12<sup>h</sup> 4<sup>m</sup> l.m.t., observed the sun on the meridian, the resulting lat. is 31° 50' N or within 1' of the proper lat.

East, on a true line bet sec. 25 and 36, from ev. point.  
 Over mountainous land, ascending.  
 1.00 Ridge, bears Northerly and Southerly; descend.  
 2.00 Dry wash, 10 lbs. wide, course Northerly; ascend.  
 6.00 Top of round mountain; descend along S. slope.  
 9.00 Dry wash, 10 lbs. wide, course N. Easterly; ascend.  
 25.00 Dry wash, 15 lbs. wide, course Northerly.  
 26.00 Ridge, bears Northerly and Southerly; descend.  
 27.00 Dry wash, 10 lbs. wide, course N. Westerly; ascend.  
 31.40 Ridge, 300 ft. above sec. ev., bears N. Easterly and S. Westerly; stand descend along S. slope  
 41.00 Set a limestone, 15x10x8 ins., 12 ins. in the ground, for  $\frac{1}{4}$  sec. ev. marked  $\frac{1}{4}$  on N. face; from which  
 OK  
 A cedar, 10 ins. diam., bears S. 23  $\frac{1}{4}$ ° E., 317 lbs. dist., marked  $\frac{1}{4}$  S 36 B D.  
 A cedar, 10 ins. diam., bears N. 81° W., 134 lbs. dist., marked  $\frac{1}{4}$  S 25 B D.; and raise a mound of stone, 2 ft. base, 1  $\frac{1}{2}$  ft. high, N. of ev.  
 45.00 Small galeh, 200 ft. below top of ridge, course S. Easterly; ascend.  
 73.70 Intersect E. bdy of rfr sp. 87 hrs. S. of the ev. of sec. 30 and 31 sp. 15 S, 1814 E., as heretofore described.  
 Set a granite stone 28x18x7 ins., 21 ins. in the ground, for closing ev. of sec. 25 and 36, marked 66 on N.; with 5 grooves on N. and 1 groove on S. face, and raise a mound of stone, 3 ft. base, 2 ft. high, N. of ev. Set impracticable.  
 Land, mountainous.  
 Soil, gravelly loam and stony; 2nd, 3rd and 4th rates.  
 Timber, scattering oak, mesquite and cedar; undergrowth, mesquite,

6 hours

terrestrial and coacti.  
 Mountainous land, 73.711 chs.

S. 0° 03' N., on a true line bet. sec 35 and 36.  
 Over mountainous land, ascending through dense brush.

1.00 Natural corner.

20.00 1/4 of N. slope of ridge; descend.

24.34 Bush, 20 lbs. wide, corner N. Easterly; ascend.

41.00 Set a sandstone, 18 x 12 x 3 ins., 12 ins. in the ground, for a sec. ev.  
 marked 1/4 on N. face; from which  
 A corner, 26 ins. diam., bears N. 47 1/4° E., 26 lbs. dist., marked  
 1/4 S 36° 13' S.

A corner, 12 ins. diam., bears N. 4° N., 70 lbs. dist., marked  
 1/4 S 35° 13' S.; and raise a mound of stone, 2 ft. base, 1 1/2 ft. high,  
 N. of cor.

41.50 Ridge, bears Easterly and Westerly; descend.

51.71 Dry wash, 15 lbs. wide, corner S. Easterly.

56.20 Enter valley, corner Easterly; leave dense brush.

79.00 Enter sec. S. E. of the Sp. 6 chs. E. of the cor. of sec. 1 and 2,  
 S 19° S, R 16 E., as heretofore described.

Set a sandstone, 18 x 10 x 3 ins., 12 ins. in the ground, for closing cor.  
 of sec. 35 and 36, marked 66 on N.; with 1 groove on E. and 5  
 grooves on N. face; dig pits, 24 x 16 x 12, crosswise on each line,  
 E. and W. 3 ft., and N. of stone, 7 ft. dist.; and raise a mound  
 of earth 4 ft. base, 2 ft. high, N. of cor.

Land, mountainous and level.

Soil, generally loam and stony; and, soil, and 4th rate.

Timber, scattering oak and cedar; underground, mosquito, locust,  
 oak and coacti.

Mountainous or land covered with dense undergrowth, 56.20 chs.

August 15, 1914.

### General Description.

This township is mountainous. The soil is generally loam, stony  
 and rocky, covered in most places with an abundant growth of  
 rich and nutritious grasses. Oak and cedar timber abundant.

One good road traverses the Sp. from N. E. to S. W. There are several  
 settlements in the Sp. George Schulzfeld ranch is located in sec.  
 21, J. Marting in sec. 31, John Lopez in sec. 30, the Pail  
 ranch in sec. 32. The Rosemont camp is in sec. 29 and the Holmd  
 camp in sec. 16, and the Chapman house and spring in sec. 27.

The sp. is primarily valuable for mining and grazing purposes!

Philip Couzen

W. S. Deputy Surveyor.

For authority red ink corrections see deputy's letter of Jan'y. 26, 1903:

chains	Feet	August 15 1904
		From Cor. of secs. 29, 30, 31 and 32, the corner #1 of the Oregon M.S. Sur. No 1297 B. bears N58°17' E 1093.5 ft.
17.48	1153.7	From corner 25-30-31 and 36 on the West boundary of this township, I run North bet. secs. 25 and 30 Intersect line 3-4 Potomac lode Sur. No 1297 A. at a point S35°10' W (4.337 CHS) 286.3 ft. from Cor. No 3
22.57	1488.4	Intersect line 2-3 Potomac lode Sur. No 1297 A and line 1-4 Dan Webster lode Sur. No 1297 A. at a point N58°35' W (2.926 CHS) 193.2 ft from cor. 3-4 of said lodes
35.87	2367.4	Intersect line 1-2, Dan Webster lode, Sur. No 1297 A at a point S27°30' W (9.517 CHS) 628.1 ft from Cor. No 2
40.00	2640.0	To 1/4 sec. cor. bet. secs. 25 and 30
57.347	3784.9	Intersect line 1-4 Fork lode Sur. No 1297 A. at a point S43°5' W (3.112 CHS) 20.5 ft from Cor. No 4
57.84	3817.5	Intersect line 3-4 Fork lode, Sur. No 1297 A and line 1-2 Daylight lode, Sur. No 1297 A, at a point N58°30' W (3.412 CHS) 22.5 ft from Cor. 1 and 4 of said lodes
72.444	4781.3	Intersect line 3-4 Daylight lode, Sur. No 1297 A, at a point S38°30' E (9.212 CHS) 608.1 ft from Cor. No 3
80.000	5280.0	To cor. of secs. 19-24-25 and 30
		From corner of secs. 19-24-25 3/4 30 I run N89°57' E bet. secs. 19 3/4 30
25.25	1663.4	Intersect line 1-2 R. G. Lugeroll lode Sur. No 1297 A. at a point S12°15' W (4.212 CHS) 80.4 ft from Cor. No 2
34.312	2264.6	Intersect line 3-4 - R. G. Lugeroll lode, Sur. No 1297 A at a point S12°15' W (5.512 CHS) 56.3 ft from Cor. No 3
39.99	2639.34	To 1/4 sec. cor. bet. secs. 19 and 30

chain	feet	
		From cor. of sees. 19-24-25 and 30
		I run North bet. sees. 19 and 24
✓ 10.154	670.2	Intersect line 3-4 Ward lode Sur. No 1308 at a point $N 88^{\circ} 10' E$ 35 ft from Cor. No 4 <small>(.53 LKS)</small>
✓ 16.827	1110.6	Intersect line 2-3 Ward lode Sur. No 1308 at a point $S 29^{\circ} E$ 171.8 ft from Cor. No 2 <small>(2.607 CHS)</small>
✓ 20.113	1327.5	Intersect line 3-4 Malachite lode Sur. No 1308 at a point $N 67^{\circ} 40' E$ 102.4 ft from Cor. No 4 <small>(1.551 CHS)</small>
✓ 39.954	2637.0	Intersect line 2-3 Malachite lode, Sur. No 1308 and line 1-4 Amole lode, Sur. No 1308 at a point $S 22^{\circ} 20' E$ 288.7 ft from Cor. No 2 of the Malachite lode. <small>(4.373 CHS)</small>
✓ 40.00	2640	To $\frac{1}{4}$ sec. cor. bet. sees. 19 and 24
44.683	2949.1	Intersect line 3-4 Bonnie Blue lode, Sur. No 1308 at a point $S 67^{\circ} 40' W$ 161.4 ft from Cor. No 3 <small>(2.293 CHS)</small>
50.720	3347.5	Intersect line 2-3 Bonnie Blue lode, Sur. No 1308 at a point $N 22^{\circ} 20' W$ 368.5 ft from Cor. No 3 <small>(5.573 CHS)</small>
51.448	3395.6	Intersect line 1-2, Amole lode, Sur. No 1308 at a point $N 67^{\circ} 40' E$ 288.3 ft from Cor. No 1 <small>(4.368 CHS)</small>
✓ 80.00	5280	To cor. of sees. 13-18-19 and 24 August 15-1904

Philip Conzger  
 U. S. Deputy Surveyor.

LIST OF NAMES.

BOOK 1857

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A list of the names of the individuals employed by Philip Conzen, 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. 18 S. R. 16 E

showing the respective capacities in which they acted:

- John M. Tracy, Chainman.
- H. W. Huggins, Chainman.
- A. A. Lynght, Moundman.
- Manuel Salazar, Moundman.
- Chas. M. Pogue, Axman.
- Tom Jones, Axman.
- Arthur Pogue, Flagman.

FINAL OATH OF ASSISTANTS

We hereby certify that we assisted Philip Conzen, United States Deputy Surveyor, in surveying all

those parts or portions of the Subdivision lines of

T. 18 S. R. 16 E.

of the Gila

and Salt River meridian, Territory of Arizona, which are represented

in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for

- John M. Tracy, Chainman.
- H. W. Huggins, Chainman.
- A. A. Lynght, Moundman.
- Manuel Salazar, Moundman.
- Chas. M. Pogue, Axman.
- Tom Jones, Axman.
- Arthur Pogue, Flagman.

Subscribed and sworn to before me this 17th day of December, 1904



W. G. Powers, NOTARY PUBLIC, YUMA COUNTY, ARIZONA, MY COMMISSION EXPIRES April 27th 1908

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BOOK 1857

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Philip Contzen, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Frank S. Luggalls United States Surveyor General for Arizona, bearing date of the 15<sup>th</sup> day of March, 1894, 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 Sub-division lines of T. 18 S. R. 16 E

of the Gila & 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.

Philip Contzen  
United States Deputy Surveyor.

Subscribed by said Philip Contzen, and sworn to before me }  
this 17<sup>th</sup> day of December, 1894



Clinton W. Hoover,  
Clerk U. S. District Court,  
First District of Arizona.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, A.T., May 1<sup>st</sup> 1905

The foregoing field notes of the survey of the subdivisional lines of T. 18 S. R. 16 E. of the Gila and Salt River Base and Meridian in the Territory of Arizona

executed by Philip Contzen, U.S. deputy Surveyor under his contract No. 115, dated March 15, 1904, 1894, 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. Luggalls  
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.