

Jan 4/07  
see pages 10 & 26

Book 20

4-679.

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E. P. [unclear] July  
22/07. (1)

2052

BOOK 2052

# FIELD NOTES

OF THE SURVEY OF THE

Subdivision Lines

of

Township No. 1 South, Range No. 14 East

2052

2052

2052

Of the Gila and Salt River Basins and Meridian,

in the Territory of Arizona

AS SURVEYED BY

Philip C. [unclear]

United States Deputy Surveyor,

Under his Contract No. 138, dated April 12<sup>th</sup>, 1906.

Survey commenced August 26<sup>th</sup>, 1906.

Survey completed October 1<sup>st</sup>, 1906.

2052

NAMES AND DUTIES OF ASSISTANTS.

John M. Drayton,

Chairman

Arthur E. Egan,

Chairman

George Davis,

Member

John E. Brown,

Member

George Lindsay

Member

BOOK 2052

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Township 50 N 20 W, Range 10 E 21 S

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PRELIMINARY OATHS OF ASSISTANTS.

WE, John M. Engen and Arthur Poque  
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

The Subdivision Lines of S. 1 S., R. 14 E.  
....., Chainman.  
John M. Engen  
Arthur Poque....., Chainman.

Subscribed and sworn to before me this 11  
day of August, 1906



H. G. Power  
Notary Public, Pima County, Arizona Territory.  
My Commission Expires April 27th, 1906.

WE, George Davis and  
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given me to the best of my skill and ability, in the survey of

The Subdivision Lines of S. 1 S., R. 14 E.  
....., Moundman.  
George Davis  
....., Moundman.

Subscribed and sworn to before me this 11  
day of August, 1906



H. G. Power  
Notary Public, Pima County, Arizona Territory.  
My Commission Expires April 27th, 1906.

WE, Los E. Boren and  
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given me to the best of my skill and ability, in the survey of

The Subdivision Lines of S. 1 S., R. 14 E.  
....., Axman.  
Los E. Boren  
....., Axman.

Subscribed and sworn to before me this 11  
day of August, 1906



H. G. Power  
Notary Public, Pima County, Arizona Territory.  
My Commission Expires April 27th, 1906.

I, George Chedsey, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

The Subdivision Lines of S. 1 S., R. 14 E.  
....., Flagman.  
George Chedsey

Subscribed and sworn to before me this 11  
day of August, 1906



H. G. Power  
Notary Public, Pima County, Arizona Territory.  
My Commission Expires April 27th, 1906.



Subdivision of Tp. 1-South, R. 14-E.

Survey commenced August 26, 1906, and executed with a Young & Sons light mountain transit, with Smith solar attachment No. 5609. 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, Arizona, found correct, and was approved by the Surveyor General for Arizona, August 8, 1906. I examine the adjustment 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 cor. of secs. 1, 2, 35 and 36 on the South boundary of Tp. 1-South, of R. 14-East, latitude  $33^{\circ} 17' 28''$  N. and longitude  $110^{\circ} 58' 09''$  W., I set off  $33^{\circ} 17' N.$  on the lat. arc, and  $10^{\circ} 30' N.$  on the decl. arc; and at 4 hrs., p.m., l.m.t., I determine with the solar a meridian and mark a point thereof on a stone firmly set in the ground, 5 chs. north of the cor.

At 9 h. 13m., p.m., by my watch, which agrees with l.m.t., I observe Polaris at eastern elongation, in accordance with the Manual of Instructions, and mark a point on the line thus determined on a peg driven in the ground, 5 chs. north of my station.

August 26, 1906.

August 27: At 6 h. 15 m., a.m., l.m.t., I lay off the Azimuth of Polaris  $1^{\circ} 26'$  to the west, and mark the meridian thus determined, by cutting a small groove in the stone set August 26th, on which the meridian falls 0.5 ins. west of the mark determined by the solar.

At 7 h., 00 m., a.m., l.m.t., I set off  $33^{\circ} 17' N.$  on the lat. arc, and  $10^{\circ} 30' N.$  on the decl. arc; and mark a point in the meridian determined with the solar, by a cross on the stone already set 5.00 chs. N. of my station. This mark falls 0.4 ins. west of the meridian established by Polaris observation.

The solar apparatus by p.m. and a.m. observations, defines positions of meridians, respectively about  $26^{\circ}$  East and  $21^{\circ}$  west of the meridian established by Polaris observations; therefore I conclude that the adjustments of the instruments are satisfactory.

Magnetic bearing of the meridian at 8 hrs. a.m., is N.  $13^{\circ} 45' W.$ , the angle thus determined gives the magnetic declination  $13^{\circ} 45' E.$



chains

N. 0° 1' W. bet. secs. 25 and 26.  
 From the cor. point in gulch, ascending through dense brush.

35.00 Top, brs. E. and W.; thence over rolling ground, 600 feet above gulch.

40.00 Set a granite stone, 18 X 8 X 8 ins., 12 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on W. face, from which  
 An oak, 5 ins. diam., brs. N. 71 $\frac{1}{2}$ ° E., 12 lks. dist., marked  $\frac{1}{4}$  S 25 B T.,  
 An oak, 6 ins. diam., brs. S. 53 $\frac{1}{2}$ ° W., 35 lks. dist., marked  $\frac{1}{4}$  S 26 B T.

48.15 Head of gulch, course S.W.

60.40 Ridge, brs. N.W. and S.E.; watershed between Gila and Salt Rivers; descend.

67.00 Gulch, 15 lks. wide, course N.E.

80.00 Set a granite stone, 18 X 8 X 6 ins., 12 ins. in the ground, for cor. of secs. 23, 24, 25 and 26, marked with 1 notch on the E. and 2 notches on the S. edges, from which  
 A juniper, 28 ins. diam., brs. N. 44° E., 28 $\frac{1}{2}$  lks. dist., marked T 1 S R 14 E S 24 B T,  
 An oak, 5 ins. diam., brs. S. 76 $\frac{1}{2}$ ° E., 54 lks. dist., marked T 1 S R 14 E S 25 B T,  
 An oak, 5 ins. diam., brs. S. 15° W., 13 lks. dist., marked T 1 S R 14 E S 26 B T,  
 An oak, 5 ins. diam., brs. N. 79 $\frac{1}{2}$ ° W., 38 lks. dist., marked T 1 S R 14 E S 23 B T.

Raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor.

Land, mountainous and rolling,  
 Soil, gravelly, stony and rocky; 3 and 4 rate.  
 Timber, scattering oak and juniper; undergrowth, oak, manzanito, laurel, mezquite and Spanish bayonet.  
 Mountainous land, covered with dense undergrowth, exceptionally difficult to survey. 80.00 chs.  
 August 26, 1906.

August 27: At 7:50 a.m. I set off 10° 18' N. on the decl. arc and 33° 19' on the lat. arc, and determine a true meridian with the solar at the cor. of secs. 23, 24, 25 and 26.  
 Thence I run  
 S. 89° 58' W. on a true line bet. secs. 24 and 25.  
 Over mountainous land, descending through heavy timber and dense brush.

40.00 Gulch, 20 lks. wide, course N. W., ascend. (Lyon's Canyon)

79.96 Search for a granite stone on a random line bet. secs. 24 and 25. Set temp.  $\frac{1}{4}$  sec. cor. Intersect the East bdy. of Tp. 7 lks. S. of the cor. of secs. 19, 24, 25 and 30, previously described, thence I run  
 S. 89° 58' W. on a true line bet. secs. 24 and 25.  
 Over mountainous land, descending through heavy timber and dense brush.

1.50 Gulch, 20 lks. wide, course N. W., ascend. (Lyon's Canyon)

26.00 Search for a granite stone on a random line bet. secs. 24 and 25.

36.00 Search for a granite stone on a random line bet. secs. 24 and 25.

40.00 Search for a granite stone on a random line bet. secs. 24 and 25.

27.00 Search for a granite stone on a random line bet. secs. 24 and 25.

40.00 Search for a granite stone on a random line bet. secs. 24 and 25.

An oak, 9 ins. diam. brs. S. 44 $\frac{1}{2}$ ° E., 50 lks. dist., marked  $\frac{1}{4}$  S 25 B T.  
 A juniper, 28 ins. diam., brs. N. 44 $\frac{1}{2}$ ° W., 6 lks. dist., marked  $\frac{1}{4}$  S 24 B T.  
 This  $\frac{1}{4}$  sec. cor. is 350 feet below sec. cor.

42.00 Top of long spur extends N., leave timber and descend through dense manzanito and oak brush.

75.50 Gulch, 600 ft. below ridge, 30 lks. wide, course N.; trail brs. E. and S.; ascend.

79.96 The cor. of secs. 23, 24, 25 and 26.  
 Land, mountainous.  
 Timber, pine, oak and juniper; undergrowth, oak, manzanito, laurel, pine, tesetilla, locust, buck brush, mezquite, Spanish bayonet and oak.

Subdivision of T. 1 S., R. 14 E.

chains	Soil, gravelly, stony and rocky; 3rd and 4th rate. Mountainous land, covered with dense undergrowth and exceptionally difficult to survey, 89.96 chs.
10.00 23.00 26.00 30.00 32.15 32.90 33.80 40.00	<p>N. 0° 1' W bet. secs. 23 and 24. Over mountainous land, descending through scattering timber and dense manzanita brush. Gulch, 40 lks. wide, course N.W.; ascend. Ridge, brs. N.W. and S.E.; descend. Enter heavy timber, brs. N.W. and S.E. Foot of descent, brs. E. and W. Pinto Creek, course W., 45 lks. wide. Road, brs. E. and W. Ascend. Set a quartzite stone, 18 X 12 X 5 ins., 12 ins. in the ground for <math>\frac{1}{4}</math> sec. cor., marked <math>\frac{1}{4}</math> on W face, from which An oak, 14 ins. diam., brs. N. 50° E., 6 lks. dist., marked <math>\frac{1}{4}</math> S 24 B T, An oak, 20 ins. diam., brs. S. 84° W., 17 lks. dist., marked <math>\frac{1}{4}</math> S 23 B T. Leave heavy timber, brs. N.W. and S.E. Ridge, brs. E. and W.; descend. Gulch, 15 lks. wide, course W., ascend. Ridge brs. E. and W.; descend. Gulch, 20 lks. wide, course S.W.; ascend. Set a granite stone, 18 X 10 X 10 ins., 12 ins. in the ground, for cor. of secs. 13, 14, 23 and 24, marked with 1 notch on the E. and 3 notches on the S. edges, and raise amount of stone, 2 ft. base, 1<math>\frac{1}{2}</math> ft. high, W. of cor. Pits impracticable.</p>
47.00 51.20 67.40 76.90 80.00	<p>Land, mountainous. Soil, gravelly and stony; 3rd and 4th rate. Timber, scattering oak, juniper and pine; undergrowth, oak, manzanita, laurel, tesotilla and Spanish bayonet. Mountainous land, heavily timbered or covered with dense undergrowth, exceptionally difficult to survey, 80.00 chs. August 27: At 12 h., 2 m.l.m.t., p.m., I set off 10° 12' N. on the decl. arc and observe the sun at the meridian; the resulting lat. is 33° 20' N.</p>
40.00 80.02  11.20 20.15 37.00 40.00	<p>Set <del>temp.</del> <math>\frac{1}{4}</math> sec. cor. Intersect the East bdy. 7 lks. S. of the cor. of secs. 13, 18, 19 and 24. previously described. Thence I run S. 89° 55' W. on a true line bet. secs. 13 and 24. Over mountainous land, descending through scattering oak timber and brush. Gulch, 300 feet below sec. cor. 15 lks. wide, course S.; ascend. Spur extends S., descend through dense brush. Gulch, 20 lks. wide, course S.W. Set a quartzite stone 18 X 6 X 6 ins, 12 ins. in the ground, for <math>\frac{1}{4}</math> sec. cor., marked <math>\frac{1}{4}</math> on N. face, from which An oak, 5 ins. diam., brs. S. 65° W., 23 lks. dist., marked <math>\frac{1}{4}</math> S 24 B T., An oak, 9 ins. diam., brs. N. 30° W., 20 lks. dist., marked <math>\frac{1}{4}</math> S 13 B T. Gulch, 400 feet below spur, 15 lks. wide, course S. Ascend. Ridge, extends N.W.; descend. Gulch, 50 lks. wide, course S.W.; ascend.</p>
42.80 55.00 60.20	



chains  
80.00

The cor. of secs. 13, 14, 23 and 24.  
Land, mountainous.  
Soil, gravelly and stoney; 3rd and 4th rate.  
Timber, scattering oak, pine and juniper; undergrowth,  
oak, jehava, tesetilla, laurel, mezquite, Spanish bayonet,  
and caoti.  
Mountainous land, covered with dense undergrowth,  
exceptionally difficult to survey, 80.02 chs.  
August 27, 1906.

August 28: At 7 a.m., I set off 9° 57' N. on the decl.  
arc and 33° 20' N. on the lat. arc, and determine a true  
meridian with the solar at the cor. of secs. 13, 14, 23  
and 24.

Thence I run

N. 0° 1' W. bet. secs. 13 and 14.

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

Trail brs. NE. and SW.

Spur extends N.E.; enter scattering pines, descend.

Gulch, 10 lks. wide, course N.W.

Deep gulch 20 lks. wide, course W., ascend steep

Spur, extends W., descend.

Some ~~quartzite~~ rocksecs. falls on granite rock in place.

24 X 12 X 18 ins. above ground, which I mark with (X) for  
exact  $\frac{1}{4}$  sec. cor. point, and W. of cor., from which

An oak, 14 ins. diam., brs. S. 21° E., 33 lks. dist.,  
marked  $\frac{1}{4}$  S 21° E T.

An oak, 12 ins. diam., brs. N. 31° W., 15 lks. dist.,  
marked  $\frac{1}{4}$  S 31° W T.

Raise a mound of stone, 2 ft. base, 11 ft. high, W. of  
cor.

Gulch, 30 lks. wide, course N.W.; ascend.

Trail brs. N.W. and S.E.

Spur extends N.W.N.; descend.

Deep gulch, 25 lks. wide, course W.N.W.; ascend.

Spur, extends W.N.W.; descend.

Gulch, 30 lks. wide, course W.N.W.; ascend.

Ridge extends N.E.

Set a quartzite stone, 18 X 10 X 6 ins. in mound of  
stone, for cor. of secs. 11, 12 13 and 14, marked with  
1 notch on the E. and 4 notches on the S. edge, and raise  
a mound of stone, 2 ft. base, 11 ft. high, W. of cor.

Pits impracticable. *Impossible to set on ground.*

Land, mountainous.

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

Timber, oak and scattering pine and juniper; undergrowth,  
oak, manzanita, jehava, tesetilla, mezquite, Spanish  
bayonet and caoti.

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

At 10° 25' N. on a decl. arc and 13° 15' N. on the lat. arc, bet. secs. 12 and 13.

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

Intersect the East boundary of Tp. 35 lks. N. of cor. of  
secs. 7, 12, 13 and 18.

Thence I run

N. 85° 50' W. on a true line bet. secs. 12 and 13.

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

Trail brs. N.W. and S.S.E.

Gulch, 30 lks. wide, course N.; ascend.

Spur extends N.; descend.

Gulch, 25 lks. wide, course N.E.; ascend.

Ridge extends N. and S.; 300 feet above gulch; descend  
steep

Set a gneiss stone 18 X 8 X 8 ins., in mound of stone,  
for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  S 85° W. face, exact  $\frac{1}{4}$  sec. cor. point  
from which

An oak, 6 ins. diam. brs. S. 81° W., 17 lks. dist.

4.85  
5.30  
9.70  
27.00  
33.50  
40.00

41.35  
41.70  
48.60  
52.50  
61.00  
68.80  
80.00

40.00  
79.92

4.85  
8.00  
12.70  
24.00  
39.80

Subdivision of Tp. 1 S., R. 14 E.

chains  
 marked  $\frac{1}{4}$  S 15 B T.  
 A juniper, 14 ins. diam., brs. N. 80° W., 70 lks.  
 dist., marked  $\frac{1}{4}$  S 12 B T.

60.20 Gulch, 20 lks. wide, course W.S.W., 300 feet below  $\frac{1}{4}$  sec. cor.; ascend.

69.00 Gulch, 15 lks. wide, course S.

76.60 Ridge, extends N.E., descend.

79.92 Cor. 11, 12, 13 and 14.  
 Land, mountainous.  
 Soil, gravelly, stony and rocky; 3rd and 4th rate.  
 Timber, scattering oak, juniper and pine; undergrowth, oak, manzanito, johova, tesotilla, mezquite, Spanish bayonet and cacti.  
 Mountainous land, covered with dense undergrowth, exceptionally difficult to survey, 79.92 chs.  
 August 28: At 12 m, l.m., l.m.t., I set off 9° 51' N. on the decl. arc, and observe the sun at the meridian; the resulting lat. is 33° 21' N.

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N. 0° 1' W bet. secs. 11 and 12.  
 Over mountainous land, descending through dense brush.

4.40 Gulch, 10 lks. wide, course W.; ascend.

10.00 Ridge, extends E. and W.; descend.

13.70 Gulch, 15 lks. wide, course S.W.; ascend.

28.30 Ridge extends N.N.W. and S.S.E.; descend.

40.00 Set a gneiss rock, 16 X 10 X 10 ins., 11 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on W. face, from which  
 A juniper, 6 ins. diam, brs. S. 79° 45' E., 32 lks. dist., marked  $\frac{1}{4}$  S 12 B T. No other trees within limits. Raise a mound of stone, 2 ft. base, 1  $\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.

49.25 Gulch, 15 lks. wide, course N.E.; thence N.

60.20 Gulch, 15 lks. wide, course N.E.

80.00 Set a granite stone, 18 X 10 X 10 ins., 12 ins. in the ground, for cor. of secs. 1, 2, 11 and 12, marked with 1 notch on the E. and 5 notches on the S. edges and raise a mound of stone, 2 feet base, 1  $\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.  
 Land, mountainous.  
 Soil, gravelly, stony and rocky; 3rd and 4th rate.  
 Timber, a few juniper and oak; manzanito, tesotilla, johova, Spanish bayonet and cacti, undergrowth.  
 Mountainous land, covered with dense undergrowth and exceptionally difficult to survey, 80.00 chs.  
 August 28, 1906.

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August 29: At 7 a.m., l.m.t., I set off 9° 35' N. on the decl. arc and 33° 22' N. on the lat. arc and determine a true meridian with the solar at the cor. of secs. 1, 2, 11 and 12.  
 Thence I run  
 N. 89° 45' W. on a true line bet. secs. 1 and 12.  
 Over mountainous land, along N. slope of mountain, through scattering oak timber and oak brush.

40.00 Enter at  $\frac{1}{4}$  sec. cor.

79.80 Intersect the East bdy. of tp. // lks. N. of cor. of secs. 1, 6, 7 and 12.  
 Thence I run  
 N. 89° 45' W. on a true line bet. secs. 1 and 12.  
 Over mountainous land, along N. slope of mountain, through scattering oak timber and oak brush.

7.00 Descent, brs. N. and S.

12.10 Gulch, 30 lks. wide, course N.; ascend.

18.00 Spur, extends N. and S.; descend.

26.20 Gulch, 30 lks. wide, course N.E.; ascend trail brs. N.E. and S.W.

39.90 Top of S. slope of mountain.

32

chains

Set a quartzite rock in place, 30 X 20 X 16 ins. above ground mark for exact point for ~~possession~~ with  $\frac{1}{4}$  on N. face, and raise a mound of stones, 2 ft. base, 1 1/2 ft. high, N. of cor. Pits impracticable. Enter dense brush and descend.

51.40 Gulch, 20 lks. wide, course N.; ascend.

62.00 Spur, extends N. and S.; descend.

75.20 Gulch, 20 lks. wide, course N.E.; ascend.

79.80 The cor. of secs. 1, 2, 11 and 12.

Land, mountainous.

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

Timber, scattering oak and some juniper; undergrowth, oak, manzanita, tesetilla, laurel, mezquite, Spanish bayonet and cacti.

Mountainous land, or land heavily covered with dense

undergrowth, exceptionally difficult to survey, 79.80 chs.

August-29: At 11h, 1 m., p.m., 1.m.t., I set off 9° 30'

N. of the decl. arc, and observe the sun on the meridian,

the resulting lat. is 33° 22' N. ✓

N. 0° 1' W. bet. secs. 1 and 2.

Over mountainous land, descending along E. slope of ridge over boulders and through dense oak brush.

21.00 Gulch, 20 lks. wide, course, E.; ascend.

39.00 Rocky ridge extends E. and W.; descend.

Set a granite stone, 18 X 10 X 8 ins., 12 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on W. face, from which

A chaparral, 4 ins. diam., brs. S. 25° 45' E., 130 lks. dist., marked  $\frac{1}{4}$  S 1 B T.

A chaparral, 4 ins. diam., brs. S. 80° W., 25 lks. dist., marked  $\frac{1}{4}$  S 2 B T.

76.55 Intersect N. bdy. of Tp. at a point from which  $\frac{1}{4}$  sec. cor. of Tp. 1 N., R. 14 E., brs. W. 15.87 chs. dist.

Point for closing cor. falls on a granite stone in place, 18 X 6 X 8 ins., above ground, ~~marked  $\frac{1}{4}$  on W. face~~ for exact point

with 0 on S. with 1 groove on E., and 5 grooves on W. faces and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, S. of cor. Pits impracticable.

Land, mountainous.

Soil, stony and rocky; 4th rate.

Timber, a few junipers; undergrowth, oak, laurel, tesetilla, manzanita, Spanish bayonet, mezquite and cacti.

Mountainous land, covered with dense undergrowth, ex-

ceptionally difficult to survey, 76.55 chs.

August 29, 1906.

August 30: At 7 h., a.m., 1.m.t., I set off 9° 10' N. on the decl. arc, and 33° 17' N. on the lat. arc and determine the meridian at the cor. of secs. 2, 3, 11 and 12.

Since I run

N. 0° 1' W. bet. secs. 34 and 35.

Set a granite stone, through oak brush

2.15 Gulch 20 lks. wide, course S.W.; begin ascent.

19.00 Ridge extends N.N.E. and S.S.W.; descend along west slope through dense oak and manzanita brush.

25.00 Trail brs. N.E. and S.W.

32.70 Gulch, 15 lks. wide, course W.N.W. and

36.00 Set a schist stone, 18 X 10 X 10 ins., 12 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on W. face and raise a mound of stone, 2 feet base, 1 1/2 feet high, N. of cor. Pits impracticable.

37.55 Loose Canyon, 30 lks. wide, course S.W.; ascend.

50.00 Point for sec. cor. falls on granite rock in place, 24 X 16 X 12 ins., ~~marked  $\frac{1}{4}$  on W. face~~ with a groove (X) at exact cor. point, with 2 notches on the N. and 3 notches on the E. edges, and

raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor., Pits impracticable.

Land, mountainous.

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



Subdivision of Tp. 1 South, R. 14 East.

chains	<p>Timber, a few oak and juniper; undergrowth, oak, manzanita, tesotilla, mezcal, Spanish bayonet and cacti.          Mountainous land, covered with dense undergrowth, exceptionally difficult to survey, 80.00 chs.</p> <hr/> <p>East on a random bet. secs. 26 and 35.          Set temp. <math>\frac{1}{4}</math> sec. cor.          40.00 Intersect N. and S. line, 13 lks. N. of cor. of secs.          80.06 25, 26, 35 and 36.          Thence I run N. 89° 55' W. on a true line bet. secs. 26 and 35., from cor. point in gulch,          Ascending through dense brush          8.00 Spur, extends S., thence along S. slope of ridge, over spurs extending South.          17.00 Gulch, 20 lks. wide, course S.S.E.          33.00 Gulch, 25 lks. wide, course S.          39.55 Gulch, 20 lks. wide, course S.          40.03 Set a granite stone, 16 X 10 X 8 ins. in mound of stone, for <math>\frac{1}{4}</math> sec. cor., marked <math>\frac{1}{4}</math> on N. face, and raise a mound of stone, 2 ft. base, 1<math>\frac{1}{2}</math> ft. high, N. of cor.          Pits impracticable.          68.80 Gulch, 15 lks. wide, course S.          76.30 Descend, course N. and S.          80.06 Cor. of secs. 26, 27, 34 and 35.          Land, mountainous.          Soil, gravelly, stony and rocky; 3rd and 4th rate.          Timber, a few oak, undergrowth; oak, manzanita, laurel, mezcal, Spanish bayonet and cacti.          Mountainous land, covered with dense undergrowth, exceptionally difficult to survey, 80.06 chs.</p> <hr/> <p>August 30: At 12:30 PM I set off 9° 9' N. on the decl. arc, and observe the sun on the meridian, the resulting lat. is 33° 18' N.          N. 0° 1' W. bet. secs. 26 and 27.          Over mountainous land, ascending over granite boulders and through dense brush.          2.00 Spur, extends W., descend.          9.15 Gulch, 20 lks. wide, course S.S.W.; ascend.          36.40 Ridge, 400 ft. above gulch, extends E. and W., descend.          40.00 Set a granite stone, 18 X 10 X 5 ins., in mound of stone, marked <math>\frac{1}{4}</math> on W. face, from which          An oak tree, 5 ins. diam., brs. N. 67° E., 21 lks. dist., marked <math>\frac{1}{4}</math> on W. face.          An oak, 5 ins. diam., brs. N. 61<math>\frac{1}{2}</math>° W., 37 lks. dist., marked <math>\frac{1}{4}</math> on W. face.          43.30 A gulch, 20 lks. wide, course W.; ascend.          52.00 Ridge extends E. and W.; descend over rolling and broken ground.          80.00 Paint surveyor's of secs. 22, 23, 26 and 27 falls on granite boulder in place, 9 X 6 X 4 ft. above ground, marked with cross (x) for exact cor. point, marked with 2 notches on the S. and E. edges, from which          An oak, 5 ins. diam., brs. N. 27° E., 116 lks. dist., marked T 1 S R 14 E S 23 B T,          An oak, 5 ins. diam., brs. S. 68° E., 11 lks. dist., marked T 1 S R 14 E S 26 B T,          An oak, 5 ins. diam., brs. N. 32° W., 97 lks. dist., marked T 1 E R 14 E S 22 B T. and raise a mound of stone 2 ft. base, 1<math>\frac{1}{2}</math> ft. high, W. of cor. Pits impracticable.          Land, mountainous, rolling and broken.          Soil, gravelly, stony and rocky; 3rd and 4th rate.          Timber, scattering oak and juniper; undergrowth, oak, manzanita, laurel, tesotilla, mezcal, Spanish bayonet and cacti.          Mountainous land, covered with dense undergrowth, 80.00 chs.</p>
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August 30, 1906



Subdivision of T. 1 South, R. 14 E.

chains

August 31: At 7 a.m., l.m.t., I set off  $8^{\circ} 53' N.$  on the decl. arc and  $35^{\circ} 19' N.$  on the lat. arc and determine a true meridian with the solar at the cor. of secs. 22, 23, 26 and 27.

Thence I run, S.  $89^{\circ} 55' E.$  on a random line bet. secs. 23 and 26.

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

79.95 Intersect the N. and S. line 14 lks. S. of cor. of secs. 23, 24, 25 and 26.

Thence I run S.  $89^{\circ} 59' W.$ , on a true line bet. secs. 23 and 26.

Over mountainous land, ascending through dense manzanita brush.

10.00 Top of ridge, extends N. and S.

15.60 Descend ridge, extends N. and S.

25.60 Gulch, 25 lks. wide, course N., ascend.

33.20 Gulch, 20 lks. wide, course N.

37.00 Ridge, extends N.N.W. and S.S.E.

39.975 Set a granite stone, 18 X 6 X 6 ins., in mound of stone, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on N. face, from which

An oak tree, 6 ins. diam., brs. N.  $58\frac{1}{2}^{\circ} E.$ , 17 lks. dist., marked  $\frac{1}{4}$  S 23 B T.

An juniper tree, 5 ins. diam., brs. S.  $84\frac{1}{2}^{\circ} W.$ , 89 lks. dist., marked  $\frac{1}{4}$  S 26 B T.

Enter granite boulders.

44.60 Descend, brs. N. and S.

66.40 Gulch, 20 lks. wide, course N., ascend.

70.30 Ridge, extends N. and S., descend.

72.40 Juniper tree, 24 ins. diam., on line, marked with 2 notches on the East & West faces.

73.20 A gulch, 15 lks. wide, course N.

72.30 A gulch, 15 lks. wide, course N.N.W.

79.95 The cor. of secs. 22, 23, 26 and 27.

Land, mountainous, rough and broken.

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

Timber, scattering oak and juniper; undergrowth, oak, manzanita, mesoal, Spanish bayonet and cacti.

Mountainous land, covered with dense undergrowth, exceptionally difficult to survey, 79.95 chs.

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August 31 At 12h. P.M. I set off  $8^{\circ} 47' N.$  on the decl. arc, and observe the sun on the meridian; the resulting lat. is  $35^{\circ} 19' N.$

North  $0^{\circ} 1' W.$ , bet. secs. 28 and 25.

Over mountainous land, through scattering timber and dense brush, over granite boulders.

3.30 Gulch, 15 lks. wide, course N.N.W.

13.00 Enter heavy timber, extends E. and W.

16.30 Pinto creek, 50 lks. wide, course W., thence N.W., ascend, leave boulders.

16.40 Road, brs. E. and W.

18.00 Road, brs. N.E. and S.W.

23.00 Leave heavy timber, extends N.E. and S.W.

30.45 Ridge, 400 ft. above creek, course N.S.W.; descend.

35.00 Gulch, 15 lks. wide, course N.W.; ascend.

35.55 Open cut on line.

36.80 Spur, extends W., descend.

38.60 Gulch, 15 lks. wide, course W., ascend.

40.00 Set a quartzite stone, 18 X 7 X 6 ins., 18 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on W. face, from which

An oak tree, 7 ins. diam., brs. N.  $51^{\circ} E.$ , 58 lks. dist., marked  $\frac{1}{4}$  S 25 B T.

An oak tree, 9 ins. diam., brs. S.  $39^{\circ} W.$ , 19 lks. dist., marked  $\frac{1}{4}$  S 22 B T.

47.00 A ridge extends E. and W.; ascend.

Subdivision of T. 1 S., R. 14 E.

chains	
52.20	Gulch, 15 lks. wide, course N.W.; ascend.
56.00	Spur, extends N.W.; descend.
80.00	Point for cor. of secs. 14, 15, 22 and 23 falls on schist stone in place, 24 X 18 X 12 ins. above ground, I cut a cross (x) for exact cor. point and mark with 3 grooves on the S. and 2 grooves on the E. edges, from which An oak tree, 18 ins. diam., brs. N. 64° E., 22 lks. dist., marked T 1 S R 14 E S 14 B T, An oak tree, 5 ins. diam., brs. S. 39° 45' E., 28 lks. dist., marked T 1 S R 14 E S 23 B T, An oak, 10 ins. diam., brs. S. 27° 45' W., 98 lks. dist., marked T 1 S R 14 E S 22 B T, An oak tree, 5 ins. diam., brs. N. 46 1/4° W., 42 lks. dist., marked T 1 S R 14 E S 15 B T. Raise a mound of stone 2 ft. base, 1 1/2 ft. high, W. of cor. Land, mountainous. No other trees available. Soil, gravelly, stony and rocky; 3rd and 4th rate. Timber, scattering oak, juniper, pine and cedar. Undergrowth, oak, manzanita, tesotilla and cacti. Mountainous land, covered with dense undergrowth, exceptionally difficult to survey, 80.00 chs. August 31, 1906.
40.00	September 15: At 7 h. a.m., l.m.t., I set off 5° 17' N. on the decl. arc and 33° 20' N. on the lat. and determine a true meridian with the solar at the cor. of secs. 14, 15, 22 and 23.
80.00	Thence I run E. 89° 59' E. on a random line bet. secs. 14 and 23. Set temp. 1/4 sec. cor. Intersect the N. and S. lines 16 lks. S. of cor. of secs. 15, 14 23 and 26. Thence I run S. 89° 51' W. on a true line bet. secs. 14 and 23. Over level land, descending through oak timber and dense brush.
9.35	Trail brs. N. and S.
16.00	Spur extends N.E., thence ascending along N. slope of ridge through scattering pines.
40.00	Set a quartzite stone, 18 X 8 X 8 ins. 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, from which An oak tree, 20 ins. diam., brs. N. 67 1/2° E., 41 lks. dist., marked 1/4 S 14 B T, An oak tree, 9 ins. diam., brs. S. 66 1/2° E., 29 lks. dist., marked 1/4 S 23 B T.
41.00	Top of ridge, extends W.N.W. and E.S.E.
44.00	Descend E. slope.
77.70	Gulch, 25 lks. wide, course N.; ascend.
80.00	The cor. of secs. 14, 15, 22 and 23. Land, mountainous. Soil, gravelly, stony and rocky; 3rd and 4th rate. Timber, oak, and scattering pine and juniper. Undergrowth, oak, manzanita, tesotilla, laurel, mezcal, Spanish bayonet and cacti. Mountainous land, covered with dense undergrowth, exceptionally difficult to survey, 80.00 chs.
2.00	North 0° 1' W., bet. secs. 14 and 15.
4.30	Over mountainous land, ascending through scattering timber and dense brush.
7.00	Spur, extends E., descend.
8.70	Gulch, 30 lks. wide, course N.N.W.; ascend.
18.40	Spur, extends W., descend.
26.70	Gulch, 20 lks. wide, course W., ascend.
31.90	Spur, extends N.W.; descend.
40.00	Gulch, 30 lks. wide, course N.W.; ascend. Gulch, 15 lks. wide, course N.W.; ascend. Set a quartzite stone, 18 X 6 X 6 ins., in mound of stone, for 1/4 sec. cor., marked 1/4 on W. face, from which A juniper tree, 5 ins. diam., brs. N. 71 1/2° E., 156 lks.

Subdivision of T. 1S., R. 14 E.

chains

marked  $\frac{1}{4}$  S 14 B T,  
 An oak tree, 6 ins., diam., brs. S. 59° W., 71 lks.  
 dist., marked  $\frac{1}{4}$  S 15 B T,  
 43.00 Ridge extends N.W.; descend.  
 61.40 Gulch, 30 lks. wide, course N.W.  
 63.75 Gulch, 15 lks. wide, course W., ascend.  
 74.00 Spur, extends E. and W.; descend.  
 80.00 Set a granite stone, 16 X 9 X 8 ins., in mound of  
 stone, for cor. ed secs. 10, 11, 14 and 15, marked  
 with 4 notches on the S. and E. notches on the E.  
 edges, and raise a mound of stone, 2 ft. high,  $1\frac{1}{2}$  ft.  
 high, W. of cor. Pits impracticable.  
 A cedar tree, 7 ins. diam., brs. S. 89° W., 164 lks.  
 dist., marked T 1 S R 14 E S 15 B T,  
 A juniper tree, 7 ins. diam., brs. N. 45° W., 211 lks.  
 dist., marked T 1 S R 14 E S 10 B T.  
 Land, mountainous.  
 Soil, gravelly, stony and rocky, 3rd and 4th rate.  
 Timber, scattering oak, juniper and pine. undergrowth,  
 oak, manzanita, tesotilla, laurel, mezoal, Spanish  
 bayonet and cacti.  
 Mountainous land, covered with dense undergrowth, ex-  
 ceptionally difficult to survey, 80.00 chs.

September 15: At noon, I set off ~~35~~ 33° N. on the decl. arc,  
 and observe the sun on the meridian; the resulting lat.  
 is 33° 21' N.

N. 89° 51' E. on a random line bet. secs. 11 and 14.

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

80.00 Intersect the N. and S. line 25 lks. S. of cor. of  
 secs. 11, 12, 13 and 14.

Thence I run, S. 89° 52' W., on a true line, bet. secs.  
 11 and 14.

Over mountainous land, descending through dense brush.

10.25 Gulch, 15 lks. wide, course S.W.; ascend.

18.00 Top of S. slope of ridge; descend.

39.70 Gulch, 15 lks. wide, course S.W.

40.00 Point for  $\frac{1}{4}$  sec. cor. falls on a granite stone in place,  
 10 X 10 X 6 ins. above ground, which I mark with cross  
 (x) for exact point and  $\frac{1}{4}$  S on N., from which  
 An oak tree, 6 ins. diam., brs. S. 45° W., 58 lks. dist.,  
 marked  $\frac{1}{4}$  S 14 B T,

A pinon tree, 10 ins. diam., brs. N. 72 $\frac{1}{2}$ ° W., 64 lks.  
 dist., marked  $\frac{1}{4}$  S 11 B T,

42.00 Old road brs. N.W. and S.E.

42.60 East fork of Bloody Tank wash, 45 lks. wide, course N.W.,  
 Ascend along N.E. slope of ridge.

73.00 Spur, extends N.; descend.

80.00 The cor. of secs. 10, 11, 14 and 15.

Land, mountainous.

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

Timber, scattering oak and juniper; undergrowth, oak,  
 manzanita, laurel, tesotilla, johava, mezoal, Spanish  
 bayonet and cacti.

Mountainous land, covered with dense undergrowth, except-  
 ionally difficult to survey, 80.00 chs.

September 15, 1906.

September 18 At 7 a.m., l.m.t., I set off ~~35~~ 33° N. on the  
 decl. arc and 33° 21' N. on the lat. arc and determine  
 a true meridian with the solar at the cor. of secs.  
 10, 11, 14 and 15.

Thence I run,

N. 0° 1' W. bet. secs. 10 and 11.

Over mountainous land, descending through dense oak brush.

12.80 Gulch, 15 lks. wide, course N.E.; ascend.

19.30 Spur, extends E.; descend.

23.35 Gulch 10 lks. wide, course E., ascend over boulders.

chains  
26.60 Ridge extends N.W.; descend.  
40.00 Set a gneiss stone, 18 X 6 X 6 ins., 12 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on W. face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.  
Leave boulders.  
44.70 East fork of Bloody Tank wash, 60 lks. wide, course N.W. Ascend.  
45.20 Old road, brs. N.N.W. and S.S.E.  
48.00 Spur extends W.; descend.  
52.30 Same wash, 50 lks. wide, course N.E.; ascend.  
55.60 Top of hill, descend.  
74.35 Same wash, 40 lks. wide, course N.W.; ascend.  
80.00 Set a gneiss stone, 18 X 8 X 6 ins., 12 ins. in the ground for cor. of secs. 2, 3, 10 and 11, marked with 5 grooves on S. and 2 grooves on E. edges, from which  
An oak tree, 6 ins. diam., brs. S. 61 $\frac{1}{2}$ ° E., 84 lks. dist., marked T 1 S R 14 E S 11 B T,  
An oak tree, 6 ins. diam., brs. S. 55° W., 237 lks. dist., marked T 1 S R 14 E S 10 B T.  
Raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor. Pits impracticable. ~~No other trees available.~~  
Land, mountainous,  
Soil, gravelly, stony and rocky; 3rd and 4th rate.  
Timber, scattering oak, juniper and sycamore in wash.  
Undergrowth, oak, manzanita, laurel, tesatilla, johava, mezcal, Spanish bayonet and cacti.  
Mountainous land, covered with dense undergrowth, exceptionally difficult to survey, 80.00 chs.  
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40.00 N. 89° 52' E., on a random line bet. secs. 2 and 11.  
80.00 Set temp.  $\frac{1}{4}$  sec. cor.  
Intersect the N. and S. line, 12 lks. N. of cor. of secs. 1, 2, 11 and 12.  
Thence I run,  
S. 89° 57' W., on a true line bet. secs. 2 and 11.  
Over mountainous land, ascending over granite boulders through dense oak brush.  
10.00 Ridge, extends N. and S.; begin steep rocky descent.  
24.60 Gulch, 400 ft. below ridge, 20 lks. wide, course N.W. Ascend.  
25.80 Spur, extends N.; descend; leave boulders.  
28.85 Gulch, 20 lks. wide, course N.; ascend.  
31.00 Spur, extends N. descend.  
34.00 Gulch, 20 lks. wide, course N. ascend.  
39.40 Spur, extends N., descend.  
40.00 Set a granite stone, 16 X 12 X 10 ins., 12 ins. above ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on N. face, from which  
A pine tree, 9 ins. diam., brs. N. 24 $\frac{1}{2}$ ° E., 36 lks. dist. marked  $\frac{1}{4}$  S 2 B T,  
Raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$  ft. high, N. of cor. ~~No other trees available.~~  
40.70 Small gulch, course N.; ascend.  
46.00 Ridge, extends N. and S.; descend.  
62.80 Gulch, 15 lks. wide, course N. ascend.  
67.30 Ridge, extends N. and S.; descend.  
73.75 Gulch, 10 lks. wide, course N. ascend.  
77.80 Ridge, extends N. and S., descend.  
80.00 The cor. of 2, 3, 10 and 11.  
Land, mountainous.  
Soil, gravelly, stony and rocky; 3rd and 4th rate.  
Timber, a few oak, juniper and pine.  
Undergrowth, oak, laurel, manzanita, tesotilla, Spanish bayonet and cacti.  
Mountainous land, covered with dense undergrowth, exceptionally difficult to survey, 80.00 chs.  
September 13<sup>th</sup> AT 4:55 P.M. I set off ~~at~~ N. on the decl. arc, and observe the sun on the meridian, the resulting lat. is 33° 22' N. /  
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N. 0° 1' W., bet. secs. 2 and 3.



## Subdivision T. 1 South, R. 14 East.

chains	Over mountainous land, ascending through dense oak brush.
2.00	Ridge, extends N.N.W. and S.S.E. descend.
16.85	Gulch, 10 lks. wide, course N.W.; ascend.
19.00	Spur, extends, W.; descend.
37.60	Road, brs. N.E. and S.W.; windmill brs. West 6.00 chs.
38.00	Foot of descent, extends N.E. and S.W.; leave dense brush.
38.63	Wire fence brs. E. and W., enter scattering oak timber.
38.80	Enter Bloody Tank wash, course E. N.E.
40.00	Point for $\frac{1}{4}$ sec. cor. falls in wash.
44.00	Leave wash and enter cleared land.
45.00	Set a granite stone, 18 X 7 X 6 ins., 12 ins. in the ground, for witness cor. to $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ C $\frac{1}{4}$ on W. face, from which an
	An oak tree, 20 ins. diam., brs. S. $45\frac{1}{2}^{\circ}$ E., 178 lks. dist., marked W C $\frac{1}{4}$ S, S B T
	An oak, 14 ins. diam., brs. S. $59^{\circ}$ W., 138 lks. dist., marked W C $\frac{1}{4}$ S, S B T.
	Raise a mound of stone, 2 ft. base; $1\frac{1}{2}$ ft. high, N.W. of cor.
	Schultz's house brs. S. $83^{\circ}$ E., 10.00 chs. dist.
50.95	Wire fence brs. E. and W., leave cleared land.
51.10	Old road brs. E. and W.
52.70	Dry wash, 80 lks. wide, course S.E.; ascend through scrub pinons, oak and manzanita brush.
53.50	Open cut, 50 lks. wide, course W.
58.23	Wire fence brs. E. and W.
67.80	Open cut, 70 lks. wide, course W.
68.75	Ridge extends E. and W., descend over broken ground.
74.50	Open cut, 30 lks. wide, course W.
75.89	Intersect N. boundary 16.10 chs. E. of $\frac{1}{4}$ sec. cor. of sec. 34.
	Set a quartzite stone, 18 X 9 X 5 ins., 12 ins. in the ground, marking cor. of secs. 2 & 3, and S. 75, 34 E., marked C C on S. face, with 5 grooves on W. and 2 grooves E. face, from which
	A pinon tree, 7 ins. diam., brs. S. $38\frac{1}{2}^{\circ}$ E., 18 lks. dist., marked T 1 S R 14 E S 2 B T.
	A pinon tree, 7 ins. diam., brs. S. $85\frac{1}{2}^{\circ}$ W., 81 lks. dist., marked T 1 S R 14 E S 3 B T.
	Land, mountainous.
	Soil, sandy and gravelly loam, and stony; 2nd, 3rd and 4th rate.
	Timber, scattering pinon, juniper and oak; undergrowth, oak, laurel, tesetilla, manzanita; mezcal; Spanish bayonet and cacti.
	Mountainous land, or land covered with dense undergrowth, exceptionally difficult to survey, 75.89 chs.
	September 16, 1906.
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	September 17: At 7 a.m., l.m.t., I set off $2^{\circ} 31' N.$ on the decl. arc and $35^{\circ} 17' N.$ on the lat. arc, and determine a true meridian with the solar at the cor. of secs. 3, 4, 33 and 34.
	Thence I run,
	From the cor. of secs. 3, 4, 33 and 34, on the S. hdy. of the Tp; which is a schist stone, previously described, N. $0^{\circ} 2' W.$ , bet. secs. 33 and 34.
	Over mountainous land, ascending along E. slope of spur, through dense johava brush.
7.10	Top of spur, extends S.W., trail bra. S.W. and N.E.
	Thence ascend along W. slope of ridge over broken ground, leave dense undergrowth.
27.30	Sharp and dump bra. East 40 lks. dist.
28.95	Trail bra. E. and W.; descend.
35.70	Gulch, 30 lks. wide, course S.S.W.; ascend along E. slope of ridge.
40.00	Set a schist stone, 18 X 6 X 5 ins., in mound of stone, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, from which
	A laurel tree, 6 ins. diam., brs. N. $34^{\circ} 30' E.$ , 106 lks. dist., marked $\frac{1}{4}$ S 34 B T.
	A tesetilla tree, 6 ins. diam., brs. N. $45^{\circ} W.$ , 6 lks. dist., marked $\frac{1}{4}$ S 33 B T.

chains

40.80 Gulch, 15 lks. wide, course S.E.

71.00 Spur, extends E., descend.

75.80 Gulch, 15 lks. wide, course E.S.E.; ascend.

80.00 Set a silicate stone, 18 X 10 X 8 ins., in mound of stone, for cor. of secs. 27, 28, 33 and 34, marked with 3 gotches on the E. and 1 notch on the S. edges, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.

Land, mountainous.

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

Timber, scattering cedar and mesquite; undergrowth, laurel, oak, mesquite, tesotilla, mezcal, Spanish bayonet, and cacti.

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

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2  
40.00 East on a random line bet. secs. 27 and 34.

79.90 Set temp. ¼ sec. cor.

Intersect the N. and S. line 9 lks. S. of cor. of secs. 26, 27, 34 and 35.

Thence I run,

S. 89° 56' W., on a true line bet. secs. 27 and 34.

Over mountainous land, descending steep slope through dense brush and granite boulders.

6.00 Gulch, 30 lks. wide, course S., thence over gently rolling land.

10.00 Leave boulders, brs. N. and S.

18.00 Gulch, 20 lks. wide, course S.; leave dense undergrowth. Ascend.

32.00 Ridge extends N. and S., re-enter dense brush, begin steep descent.

39.95 Set a schist stone, 18 X 8 X 5 ins. in mound of stone, for ¼ sec. cor., marked ¼ on W. face, from which,

A cedar, 10 ins. diam., brs. S. 87½° W., 125 lks. dist., marked ¼ S 34 B T,

A cedar, 14 ins. diam., brs. N. 4° W., 65 lks. dist., marked ¼ S 27 B T.

48.65 Deep gulch, 430 ft. below ridge, 30 lks. wide, course S., ascend steep slope.

57.80 Road, brs. N. and S.

58.50 Ridge 400 ft. above gulch, extends N. and S., leave dense undergrowth, ascend steep slope.

67.00 Deep gulch, 300 ft. below ridge, 20 lks. wide, course S. Ascend.

77.30 Spur extends S., descend.

79.80 Gulch, 15 lks. wide, course S.S.E.; ascend.

79.90 The cor. of secs. 27, 28, 33 and 34.

Land, mountainous and gently rolling.

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

Timber, a few cedars; undergrowth, oak, laurel, tesotilla, mezcal, Spanish bayonet and cacti.

Mountainous land, <sup>or</sup> covered with dense undergrowth, exceptionally difficult to survey, 79.90 chs.

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September 17: At 11h 55m AM set off 2-22 on the decl. arc and observe the sun on the meridian; the resulting lat. is 33° 18' N. ✓

N. 0° 2' W., bet. secs. 27 and 28.

Over mountainous land, ascending.

1.00 Gulch, 15 lks. wide, course S.S.E.

6.60 Same gulch, 15 lks. wide, course S.W.

15.10 Head of gulch, course W.

17.00 Shaft and dump, brs. East 1.00 ch. dist.

37.60 Ridge, 700 ft. above cor. of secs. 27 and 28, 33 and 34, extends E. and W., descend.

40

Subdivision of T. 1 South, R. 14 East.

chsins Set  
40.00 A schist stone, 18 X 8 X 5 ins., 12 ins. in the ground, for ~~sec. cor.~~ marked  $\frac{1}{4}$  on W. face, from which A cedar, 8 ins. diam., brs. N. 57° E., 80 lks. dist., marked  $\frac{1}{4}$  S 27 B T, No other trees within limits. Raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor. Pit's impracticable. Enter dense brush.

59.40 Gulch, 25 lks. wide, course W.S.W.; ascend.  
73.60 Spur, exten s N.W.; descend.  
77.00 Gulch, 20 lks. wide, course N.W.; ascend.  
80.00 Ridge extends E. and W.

Set a porphyry schist stone, 18 X 8 X 5 ins. in mound of stone, for cor. of secs. 21, 22, 27 and 28, marked with 2 notches on the S. and 3 notches on the E. edges. from which

A juniper tree, 6 ins. diam., brs. N. 86 $\frac{1}{2}$ ° E., 119 lks. dist., marked T 1 S R 14 E S 22 B T,  
A juniper tree, 10 ins. diam., brs. S. 56° E., 59 lks. dist. marked T 1 S R 14 E S 27 B T,  
A juniper tree, 5 ins. diam., brs. S. 3 $\frac{1}{4}$ ° W., 119 lks. dist., marked T 1 S R 14 E S 28 B T,  
A juniper tree, 6 ins. diam., brs. N. 30° W., 206 lks. dist., marked T 1 S R 14 E S 21 B T.

Land, mountainous.  
Soil, gravelly, stony and rocky; 3rd and 4th rate.  
Timber, scattering juniper, and cedar; undergrowth, oak, manzanita, laurel, mezcal, Spanish bayonet and cacti.  
Mountainous land, covered with dense undergrowth, 80.00 chs. September 17, 1906.

September  
September 18 At 7 a.m., l.m.t., I set off ~~2° 08' N.~~ on the decl. arc and 33° 19' N. on the lat. arc and determine a true meridian with the solar at the cor. of secs. 21, 22, 27 and 28. Thence I run, N. 89° 57' E., on a random line bet. secs. 22 and 27.

40.00 Set temp'  $\frac{1}{4}$  sec. cor.  
80.06 Intersect the N. and S. line 16 lks. N. of cor. of secs. 22, 23, 26 and 27. Thence I run, N. 89° 57' W., on a true line bet. secs. 22 and 27. Over mountainous land, descending through dense oak and manzanita brush.

17.00 Gulch, 15 lks. wide, course S.S.W.; ascend.  
26.15 Ridge extends N.E. and S.W.  
40.03 Set a schist stone, 18 X 6 X 6 ins., 12 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on W. face, from which A juniper tree, 24 ins. diam., brs. S. 15° 45' W., 134 lks. dist., marked  $\frac{1}{4}$  S 27 B T, An oak, 8 ins. diam., brs. N. 48° 45' W., 60 lks. dist., marked  $\frac{1}{4}$  S 22 B T.

42.65 Road, brs. S.E. and N.W.  
47.60 Gulch, 15 lks. wide, course N.W.  
51.00 Gulch, 15 lks. wide, course N.; ascend.  
55.00 Ridge, extends N. and S.; descend.  
59.80 Gulch, 15 lks. wide, course N.; ascend.  
62.70 Ridge, extends N. and S.; descend.  
74.00 Gulch, 25 lks. wide, course N.; ascend.  
80.06 The cor. of secs. 21, 22, 27 and 28. Land, mountainous. Soil, gravelly, stony and rocky; 3rd and 4th rate. Timber, scattering juniper and oak; undergrowth, oak, manzanita, laurel, tesetilla, mezcal, Spanish bayonet, and cacti. Mountainous land, covered with dense undergrowth, exceptionally difficult to survey, 80.00 chs.

41

Subdivision of T. 1 South, R. 14 E.

chains	N. 0° 2' W., bet. secs. 21 and 22. Over mountainous land, along top of ridge, through scattering timber and dense brush.
5.00	Descent, brs. E. and W.
15.15	Road brs. N.W. and S.E.
15.30	Gulch, 20 lks. wide, course W., thence N.W.; ascend.
18.00	Top of ridge, extends E. and W.; thence along west slope of ridge.
25.00	Begin steep descent, brs. N.W. and S.E.
31.85	Pinto Creek, 60 lks. wide, course W., thence N.W.; ascend.
32.20	Ridge, extends E. and W.
34.00	Spur, extends W.; descend.
37.20	Foot of descent, extends E. and W., ascend.
40.00	Set a quartzite stone, 18 X 10 X 5 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, from which An oak, 18 ins. diam., brs. N. 14° 45' E., 64 lks. dist., marked $\frac{1}{4}$ S 22 B T, An oak, 10 ins. diam., brs. S. 80 $\frac{1}{2}$ ° W., 35 lks. dist., marked $\frac{1}{4}$ S 21 B T.
42.90	Open out on line, ascent steeper.
45.25	Mining camp brs. S. 54° W., about 18.00 chs. dist.
47.50	Ridge extends E. and W.; descend.
51.15	Gulch, 15 lks. wide, course W.; ascend.
54.25	Sharp ridge, extends E. and W., descend steep slope.
59.80	Gulch, 15 lks. wide, course W.; ascend.
64.00	Ridge, extends E. and W.; descent steep.
76.80	Gulch, 25 lks. wide, course N.W.; ascend.
80.00	Set a porphyry schist stone, 18 X 6 X 6 ins., in mound of stone for cor. of secs. 15, 16, 21 and 22, marked with 3 notches on S. and E. edges, from which An oak tree, 10 ins. diam., brs. N. 63° E., 47 lks. dist., marked T 1 N R 14 E S 15 B T. An oak, 5 ins. diam., brs. S. 86° 45' E., 47 lks. dist., marked T 1 N R 14 E S 22 B T, An oak, 5 ins. diam., brs. S. 75 $\frac{1}{2}$ ° W., 69 lks. dist., marked T 1 S R 14 E S 21 B T, An oak, 7 ins. diam., brs. N. 36 $\frac{1}{2}$ ° W., 60 lks. dist., marked T. 1 N R 14 E S 16 B T.
	Land, mountainous, soil gravelly, stony and rocky; 3rd and 4th rate. Timber, oak, and scattering juniper and cedar; some sycamore and ash along creek; undergrowth, oak, laurel, tetilla manzanita; mezcal, Spanish bayonet and cacti. Mountainous land, covered with dense undergrowth, exceptionally difficult to survey, 80.00 chs.
	September 16: 4h54mAM. I set off 2° 01' N. on the decl. arc, and observe the sun on the meridian; the resulting lat. is 33° 20' N. ✓
40.00	S. 89° 57' E., on a random line bet. secs. 15 and 22. Set temp. $\frac{1}{4}$ sec. cor.
79.92	Intersect the N. and S. line, 9 lks. S. of the cor. of secs. 14, 15, 22 and 23. Thence I run, S. 89° 59' W., on a true line bet. secs. 15 and 22.
4.30	Over mountainous land, ascending through dense brush. Ridge, extends N. and S.; descend.
10.00	Gulch, 25 lks. wide, course N.; ascend.
13.00	Ridge extends N. and S.; descend.
22.90	Gulch, 25 lks. wide, course N.; thence N.W.
34.85	Ridge, extends N. and S.; descend.
59.96	Set a schist stone, 16 X 10 X 6 ins., in mound of stone, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, from which A juniper tree, 6 ins. diam., brs. N. 85 $\frac{1}{2}$ ° E., 49 lks. dist., marked $\frac{1}{4}$ S 15 B T, A juniper tree, 5 ins. diam., brs. S. 20° 45' W., 80 lks. dist., marked $\frac{1}{4}$ S 22 B T.
51.80	A gulch, 20 lks. wide, course N.W.; ascend.
57.00	Ridge extends N. and S.; descend.



Subdivision of T. 1 South, R. 14 East.

chains  
59.00  
65.85  
79.92

Gulch, 10 lks. wide, course N; ascend.  
Ridge extends N.W. and SE.; descend.  
The cor. of secs. 15, 16 21 and 22.  
Land, mountainous.  
Soil, gravelly, stony and rocky; 3rd and 4th rate.  
Timber, scattering oak and juniper; undergrowth, oak, manzanita, laurel, tesotilla, mezcal, Spanish bayonet and cacti.  
Mountainous land, covered with dense undergrowth, exceptionally difficult to survey, 79.92 chs.  
September 18 1906.

8.00  
14.20  
18.00  
25.00  
29.98  
40.00  
40.50

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September 19 At 7 a.m., I set off 1.44' N. on the decl. arc and 33° 20' N. on the lat. arc and determine a true meridian with the solar at the cor. of secs. 15, 16, 21 and 22.  
Thence I run,  
N. 0° 2' W., bet. secs. 15 and 16.  
Over mountainous land, ascending through scattering oak timber and dense brush.  
Ridge, extends E. and W., descend.  
Gulch, 20 lks. wide, course W; ascend.  
Ridge extends E. and W., descend.  
Gulch, 15 lks. wide, course W.; ascend.  
Ridge, extends E. and W.; descend.  
Point for 1/4 sec. cor. falls in gulch, 25 lks. wide, course W.N.W.; ascend. *Fiegle's Camp brs. S45°W. 1500 chs.*  
Set a schist stone, 21 X 6 X 6 ins., 16 ins. in the ground, for witness cor. to 1/4 sec. cor., marked W C 1/4 S on W. face, from which  
An oak, 9 ins. diam., brs. N. 84 1/2° E., 93 lks. dist., 1/4 S 15 W 10 B T, (marked)  
An oak, 12 ins. diam., brs. S. 11 1/2° W., 20 lks. dist., marked 1/4 S 16 W C B T,  
Raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.  
Sharp spur, extends W., descend.  
Gulch, 20 lks. wide, course W., ascend.  
Spur, extends W., descend.  
Shaft and dump, 20 lks. west 20 lks. dist.  
Gulch, 15 lks. wide, course W., Trail brs. N.E. and S.W.  
Top of W. slope of ridge.

53.00  
61.00  
69.40  
72.30  
73.00  
80.00

Point for stone of secs. 9, 10, 21 5 X and 18 falls even ground, quartz rock in place, 24 X 20 X 18 ins., above ground, which I mark with a cross (x) for exact cor. of secs. with 4 notches S. of cross and 3 notches E. of cross, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable.  
Land, mountainous.  
Soil, gravelly and stony, 3rd and 4th rate.  
Timber, scattering juniper and oak; undergrowth, oak, tesotilla, laurel, manzanita, Spanish bayonet and cacti.  
Mountainous land, covered with dense undergrowth; exceptionally difficult to survey, 80.00 chs.

40.00  
80.02  
5.70  
8.20  
29.30  
40.01

-----  
September 19, 1906 I set off 1.45' N. on the decl. arc, and observe the sun on the meridian; the resulting lat. is 33° 21' N.  
N. 89° 59' E. on a random line bet. secs. 10 and 15.  
Set temp. 1/4 sec. cor.  
Intersect the N. and S. line 7 lks. S of cor. of secs. 10, 11, 14 and 15.  
Thence I run,  
S. 89° 56' W., on a true line bet. secs. 10 and 15.  
Over mountainous land, descending through dense oak brush.  
Gulch, 15 lks. wide, course W.W.; descend.  
Ridge, extends N. and S., descend.  
Bloody Tank wash, 50 lks. wide, course N.N.W., ascend.  
Set a schist stone, 18 X 8 X 8 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound

Subdivision of T. 1 South, R. 14 East.

chains.	of stone, 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable.
47.20	Ridge extends N. and S., descend.
74.80	Trail brs. N.E. and S.W.
76.00	Ridge, extends N. and S., descend.
80.02	The cor. of secs. 9, 10, 15 and 16. Land, mountainous. Soil, gravelly and stony; 3rd and 4th rate. Timber, scattering oak and juniper; undergrowth, oak, manzanita, laurel, tesotilla, mezoal, Spanish bayonet, nad cacti. Mountainous land, covered with dense undergrowth, exceptionally difficult to survey; 80.02 chs.
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	N. 0° 2' W., bet. secs. 9 and 10. Over mountainous land, descending through dense brush.
4.65	Gulch, 15 lks. wide, course N.W.; thence W., ascend.
6.40	Ridge, extends E. and W., descend over granite boulders.
26.40	Top of round hill on ridge, extending E. and W.
40.00	Set a granite stone, 18 X 10 X 5 ins., 12 ins. in the ground, for ¼ sec. cor., marked ¼ on W face, from which A juniper, 6 ins. diam., brs. S. 84° E., 16 lks. dist., marked ¼ S 10 B T, A palo negro, 5 ins. diam., brs. N. 83½° W., 106 lks. dist., marked ¼ S 9 B T.
79.25	Gulch, 20 lks. wide, course N.E.
80.00	Point for cor. of secs. 3, 4, 9 and 10 falls on granite stone in place, 30 X 30 X 30 ins. above ground, which I mark with a cross (x) for exact cor. point and 5 grooves on S. and 3 grooves E. of cross, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable. This cor. stands 700 feet below ridge. Land, mountainous. Soil, gravelly, stony and rocky; 3rd and 4th rate. Timber, scattering juniper and oak; undergrowth, oak, hohava, tesotilla, laurel, mezoal, Spanish bayonet and cacti. Mountainous land, covered with dense undergrowth, exceptionally difficult to survey, 80.00 chs. September 19 1906.
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	September 20: At 7 a.m., I set off a <del>11</del> 11' N. on the decl. arc and 33° 22' N. on the lat. arc and determine a true meridian with the solar at the cor. of Secs. 3, 4, 9 and 10 Thence I run, N. 89° 56' E. on a random line bet. secs. 3 and 10.
40.00	Set temp. ¼ sec. cor.
80.20	Intersect the N. and S. line 19 lks. N. of cor. of secs. 2, 3, 10 and 11. Thence I run, N. 89° 56' W. on a true line bet. secs. 3 and 10. Over mountainous land, descending through dense oak brush.
7.00	Foot of ridge, extends N. and S., thence over gently rolling land.
15.60	Road brs. N. and S.; ascend.
18.00	Ridge, extends N.E. and S.W.; descend.
21.20	Trail, brs. N.E. and S.W.
21.60	Bloody Tank wash, 80 lks. wide, course N.E.; ascend over boulders.
40.10	Set a gneiss stone, 18 X 6 X 10 ins. 12 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable.
45.90	Ridge, extends N. and S., descend.
49.20	Gulch, 10 lks. wide, course N.; ascend.
68.60	Spur, extends N.; descent steep.
74.00	Gulch, 20 lks. wide, course N.; ascend.
78.20	Spur, extends N.; descend.

## Subdivision of T. 1 S., R. 14 E.

chains	
79.90	Gulch, 15 lks. wide, course N., thence N.E.; ascend.
80.20	The cor. of secs. 3, 4, 9 and 10. Land, mountainous and gently rolling. Soil, gravelly, stony and rocky; 3rd and 4th rate. Timber, a few oak and juniper; undergrowth, oak, manzanita, tesotilla, laurel, Spanish bayonet and cacti. Mountainous land, covered with dense undergrowth, exceptionally difficult to survey, 80.20 chs.
	----- September 20 At 11h54mAM. set off 1°14' N. on the decl. arc and observe the sun on the meridian; the resulting lat. is 33° 22' N. N0° 2' W bet. secs. 3 and 4. Over mountainous land, ascending through dense brush and over boulders.
3.00	Gulch, 21 lks. wide, course E.
10.00	Spur, extends E; road brs. E. and W.; descend.
13.60	Gulch, 15 lks. wide, course E., thence S.E., ascend, leave dense brush.
40.00	Set a granite stone, 18 X 10 X 8 ins. in mound of stone, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
40.60	Spur, extends S.E.; descend.
44.65	A gulch, 10 lks. wide, course S.E.; ascend.
55.50	Ridge, extends N.W. and S.E., descend through dense oak brush.
67.35	Gulch, 15 lks. wide, course E., ascend.
75.94	Intersect the N. bdy. 15.95 chs., E. of Standard $\frac{1}{4}$ sec. cor., of Sec. 33, T. 1 N., R. 14 E. Set a granite stone, 18 X 6 X 6 ins., in mound of stone, for closing cor. of secs. 3 and 4, marked C C on S. with 3 grooves on E. and W. faces, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, S. of cor. Pits impracticable. Land, mountainous. Soil, gravelly, stony and rocky, 3rd and 4th rate. No timber; undergrowth, oak, tesotilla, manzanita, laurel, johava, Spanish bayonet and cacti. Mountainous land, or land covered with dense undergrowth, exceptionally difficult to survey, 75.94 chs. September 20 1906.
	----- September 21, At 7 a.m., l.m.t., I set off 0° 53' N. on the decl. arc, and 33° 17' N. on the lat. arc, and determine a true meridian with the solar at the cor. of secs. 4, 5, 32 and 33 on the S. bdy. of Tp., which is a schist stone, previously described. Thence I run, N. 0° 2' W., bet. secs. 32 and 33. Over mountainous land, ascending.
15.40	Ridge, extends N. East and S.W.; descend.
20.70	Gulch, 15 lks. wide, course W., ascend.
25.00	Ridge 400 ft. above secs. cor., extends S.S.E. and N.N.W. Thence along E. slope of ridge, over spurs, extending E.
35.40	Gulch, 20 lks. wide, course E.
40.00	Set a silicate stone, 18 X 6 X 6 ins. 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
40.75	Gulch, 15 lks. wide, course E.
43.45	Descend steep slope,
46.40	Gulch, 25 lks. wide, course S.E., ascend.
66.50	Top of ridge, extends N.W. and S.E.; thence along E. slope of ridge, broken ground, through dense brush.
77.00	Leave dense brush, extends N.W. and S.E.
80.00	Set a porphyry schist stone, 18 X 5 X 5 ins., 12 ins. in the ground, for cor. of secs. 28, 29, 32 and 33, marked with 1 notch on S. and 4 notches on E. edges, from which

Subdivision of T. 1 South, R. 14 East.

chains	<p>A cedar tree, 12 ins. diam., brs. N. 87½° E., 80 lks. dist., marked T 1 S R 14 E S 28 B T,  A cedar tree, 9 ins. diam., brs. S. 25½° E., 148 lks. dist., marked T 1 S R 14 E S 33 B T.  Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor., pits impracticable.  This cor. stands 700 ft. above gulch.  Land, mountainous.  Soil, gravelly, stony and rocky; 3rd and 4th rate.  Timber, scattering cedar; undergrowth, johava, tesotilla, mesquite, mezcal, Spanish bayonet and cacti.  Mountainous land, covered with dense undergrowth, exceptionally difficult to survey, 80.00 chs.</p> <hr/> <p>September 21: At 11:53 AM I set off 0° 51' 3" N. on the decl. arc and observe the sun on the meridian; the resulting lat. is 33° 18' N.  East on a random bet. secs. 28 and 33.  Set temp. ¼ sec. cor.  Intersect the N. and S. line 7 lks. N. of cor. of secs. 27, 28, 33 and 34.  Thence I run,  N. 89° 57' W. on a true line bet. secs. 28 and 33.  Over mountainous land, ascending.  Top of ascent, brs. N.E. and S.W.; descend.  Gulch, 15 lks. wide, course S.W.; ascend.  Ridge, extends N. and S.; descend.  Gulch, 25 lks. wide, course S; ascend.  Ridge extends N. and S.; begin steep descent through dense brush.  Set a schist stone, 18 X 8 X 6 ins., 12 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face, from which  A laurel, 7 ins. diam., brs. S. 31° E., 87 lks. dist., marked ¼ S 33 B T,  A cedar, 5 ins. diam., brs. N. 22½° W., 79 lks. dist., marked ¼ S 28 B T,  A gulch, 45 lks. wide, course S., leave dense brush; ascend.  Spur, extends S.E., descend.  Gulch, 15 lks. wide, course S.S.E.; ascend.  The cor. of secs. 28, 29, 32 and 33.  Land, mountainous.  Soil, gravelly, stony and rocky; 3rd and 4th rate.  Timber, a few cedar and oak; undergrowth, laurel, oak, johava, mezcal, Spanish bayonet and cacti.  Mountainous, or land covered with dense undergrowth, exceptionally difficult to survey, 79.90 chs.  September 21, 1906.</p> <hr/> <p>September 22: At 7 a.m., I set off 0° 34' 3" N. on the decl. arc, and 33° 18' N. on the lat. arc, and determine a true meridian with the solar at the cor. of secs. 28, 29, 32 and 33.  Thence I run,  N. 0° 2' W., bet. secs. 28 and 29.  Over mountainous land, ascending.  Ridge, extends S.S.W. and N.N.E.; ascend steeper along W. slope of ridge.  Spur, extends W., descend.  Tunnel brs. E. 270 lks. dist.  Deep gulch, 25 lks. wide, course W., thence S.W.; ascend.  Trail, brs. E. and W.  Set a schist stone, 18 X 6 X 6, ins., in mound of stone, for ¼ sec. cor., marked ¼ on W. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits. impracticable.  Same trail brs. N.E. and S.W.  Same trail, brs. N.W. and S.E.  Top of ridge, brs. N.W. and S.E.; same trail brs. E.N.E. and S.W.S.; descend through dense brush.</p>
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40.00  
79.90

3.00  
8.20  
11.60  
17.80  
28.80

39.95

55.00  
70.00  
78.00  
79.90

22.00  
36.00  
38.00  
38.60  
39.95  
40.00  
46.00  
50.85  
57.00



## Subdivision of T. 1 South, R. 14 East.

chains	
64.00	Gulch, 20 lks. wide, course W., ascend.
73.00	Spur, extends W.; begin steep descent.
80.00	Set a silicate stone, 18 X 10 X 8 ins., 12 ins. in the ground, for cor. of secs. 20, 21, 28 and 29, marked with 2 notches on S. and 4 notches on E. edge, from which A juniper tree, 14 ins. diam., brs. N. 79½° E., 125 lks. dist., marked T 1 S R 14 E S 21 B T, A juniper tree, 12 ins. diam., brs. S. 80° 45' E., 80 lks. dist., marked T 1 S R 14 E S 28 B T, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor., pits impracticable. No other trees within limits. Land, mountainous. Soil, gravelly, stony and rocky, 3rd and 4th rate. Timber, scattering juniper and oak; undergrowth, johava, laurel, manzanita, mesquite, tesotilla, mezcal, Spanish bayonet and cacti. Mountainous, or land covered with dense undergrowth, exceptionally difficult to survey, 80.00 chs.
40.00	S. 89° 57' E., on a random line bet. secs. 21 and 28. Set temp. ¼ sec. cor.
80.10	Intersect the N. and S. line 2 lks. N. of cor. of secs. 21, 22, 27 and 28. Thence I run, N. 89° 56' W., on a true line bet. secs. 21 and 28. Over mountainous land, descending through dense brush.
3.20	Gulch, 20 lks. wide, course N.W.; ascend.
6.70	Spur, extends N.W.; descend.
19.70	Gulch, 30 lks. wide, course S.; ascend.
40.00	Small gulch, course S.
40.05	Set a porphyry stone, 18 X 6 X 6 ins. 12 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face, and raise a mound of stones, 2 ft. base, 1½ ft. high, N. of cor.; pits impracticable.
47.00	Ridge, extends N.E. and S.W.; descend.
49.80	Trail brs. N.E. and S.W.
61.00	Gulch, 20 lks. wide, course N.N.W.
75.40	Gulch, 15 lks. wide, course N.; ascend.
80.10	The cor. of secs. 20, 21, 28 and 29. Land, mountainous. Soil, gravelly, stony and rocky; 3rd and 4th rate. Timber, scattering oak, juniper and cedar; undergrowth, oak, laurel, manzanita, tesotilla, mezcal, Spanish bayonet and cacti. Mountainous land, covered with dense undergrowth, exceptionally difficult to survey, 80.10 chs.
5.30	September 22 At 11:53 AM I set off 6° 22' N. on the decl. arc, and observe the sun on the meridian; the resulting lat. is 33° 19' N. ✓ N. 0° 2' W., bet. secs. 20 and 21. Over mountainous land descending through dense brush.
9.20	Gulch, 20 lks. wide, course N.W.; ascend.
13.00	Spur, extends N.W.; descend.
40.00	Gulch, 60 lks. wide, course S.; Tunnel, brs. East, 3.00 chs. dist. Begin steep ascent; leave dense brush. Ridge, 600 ft. above gulch, extends E. and W. Set a quartzite stone, 18 X 6 X 6 ins., 12 ins. in the ground, for ¼ sec. cor., mark ¼ on W. face, from which An oak, 12 ins. diam., brs. N. 54½° E., 108 chs. dist., marked ¼ S 21 B T, A cedar, 6 ins. diam., brs. N. 30° W., 109 lks. dist., marked ¼ S 20 B T. Thence along West slope of connecting ridge, through dense brush.
41.80	Trail, brs. E. N. E.
45.80	Shaft and dump, brs. W. 150 lks. dist.
50.80	Trail, brs. N.W. and S.E.; shaft and dump brs. West, 150 lks. dist.

Subdivision of T. 1 South. R. 14 East.

51.00  
 55.00  
 58.00  
 60.00  
 62.00  
 64.00  
 66.00  
 68.00  
 70.00  
 72.00  
 74.00  
 76.00  
 78.00  
 80.00  
  
 40.00  
 79.88  
  
 7.00  
 9.00  
 16.00  
 16.60  
  
 24.40  
 27.30  
 37.30  
 39.80  
 39.94  
  
 41.70  
 44.70  
 52.00  
 55.15  
 58.00  
 60.70  
 69.00  
 75.10  
 79.88

Same trail, brs. N.E. and S.W.  
 Descend along E. slope of ridge.  
 Road, brs. N.W. and S.E.; head of gulch, course N.N.E.  
 Whalen's stone brs. East, 210 lks. dist.  
 Set a quartzite stone, 18 X 10 X 8 ins., 12 ins. in the ground for cor. of secs. 16, 17, 20 and 21, marked with 3 notches on S. and 4 notches on E. edges, from which  
 A juniper, 14 ins. diam., brs. N. 26½° E., 86 lks. dist., marked ½ E 16 B T,  
 An oak, 7 ins. diam., brs. S. 9½° E., 142 lks. dist., marked T 1 S R 14 E S 21 B T,  
 An oak, 7 ins. diam., brs. S. 61° W., 25 lks. dist., marked T 1 S R 14 E S 20 B T,  
 An oak, 6 ins. diam., brs. N. 8° W., 87 lks. dist., marked T 1 S R 14 E S 17 B T.  
 Land, mountainous.  
 Soil, gravelly, stony and rocky, 3rd and 4th rate.  
 Timber, scattering oak, juniper and cedar; undergrowth, oak, laurel, mesquite, tesotilla, manzanita, mezoal, Spanish bayonet and cacti.  
 Mountainous land, covered with dense undergrowth, exceptionally difficult to survey, 80.00 chs.  
 September 22, 1906.

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September 23. At 7 a.m., l.m.t., I set off 30° 11' N on the decl. arc, and 33° 20' N on the decl. arc and determine a true meridian with the solar at the cor., of secs. 16, 17, 20 and 21.  
 Thence I run,  
 S. 89° 56' E. on a random line bet. secs. 16 and 21.  
 Set temp. ¼ sec. cor.  
 Intersect the N. and S. line 32 lks. S. of cor. of secs. 15, 16, 21 and 22.  
 Thence I run,  
 S. 89° 50' W. on a true line bet. secs. 16 and 21.  
 Over mountainous land, descending along S. slope of ridge, through scattering timber and dense brush.  
 Gulch, 30 lks. wide, course N.W.; trail brs. N.W. and S.E.  
 Ascend.  
 Top of N. slope of ridge; descend.  
 Road, brs. N.E. and S.W.  
 Pinto Creek, dry, 60 lks. wide, course N.E., thence N.  
 Ascend.  
 Ridge, extends N. and S.; descend.  
 Road, brs. N.E. and S.W.  
 Gulch, 25 lks. wide, course N.N.E.; ascend.  
 Ridge, extends N.W. and S.E.; descend.  
 Set a porphyry schist stone, 18 X 10 X 5 ins., 12 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face, from which  
 An oak, 5 ins. diam., brs. N. 13½° E., 94 lks. dist., marked ½ S 16 B T,  
 A juniper, 7 ins. diam., brs. S. 43½° W., 178 lks. dist., marked ¼ S 21 B T.  
 From this cor. Gibson's camp brs. S. about 20 chs. dist.  
 Gulch, 15 lks. wide, course N.E.  
 Same gulch, 15 lks. wide, course S.E.; ascend.  
 Ridge, extends N. and S.; descend.  
 Gulch, 15 lks. wide, course N.N.E.; ascend.  
 Ridge, extends N. and S., descend.  
 Gulch, 15 lks. wide, course N.E. ascend.  
 Spur, extends N.E.; descend.  
 Gulch, 20 lks. wide, course N.N.E.; ascend.  
 The cor. of secs. 16, 17, 20 and 21.

Subdivision of T. 1 South, R. 14 East.

chains

Land, mountainous.  
Soil, gravelly, stony and rocky; 3rd and 4th rate.  
Timber, scattering oak, juniper and cedar, sycamore and ash on Pinto Creek; undergrowth, oak, laurel, manzanita, tesotilla, mezcal, Spanish bayonet and cacti.  
Mountainous land, covered with dense undergrowth, exceptionally difficult to survey, 79.88 chs.

N. 0° 2' W., bet. secs. 16 and 17.  
Over mountainous land, along E. slope of ridge, through scattering timber and dense brush.

5.05  
5.20  
16.40  
28.50  
33.00  
34.70  
39.00  
40.00

Gulch, 20 lks. wide, course E.; ascend.  
Trail, brs. E.N.E. and W.S.W.  
Spur, extends N.E.; descend.  
Gulch, 30 lks. wide, course E.S.E.; ascend.  
Spur, extends E.; descend.  
Gulch, 20 lks. wide, course E; ascend.  
Spur, extends E.; descend.  
Point for  $\frac{1}{4}$  sec. cor. falls on a porphyry stone in place, 18 X 10 X 12 ins. above ground, which I mark with cross (x) and  $\frac{1}{4}$  W. of cross, from which  
An oak, 7 ins. diam., brs. N. 88° E. 29 lks. dist., marked  $\frac{1}{4}$  S 16 B T.  
An oak, 9 ins. diam., brs. N. 44° 45' W., 11 lks. dist., marked  $\frac{1}{4}$  S 17 B T.

44.30  
45.00  
55.00  
57.00  
64.30  
67.50  
74.00  
79.00  
80.00

Gulch, 20 lks. wide, course E.N.E.; ascend.  
Trail brs. E.N.E. and W.S.W.  
Road, brs. E. and W.  
Spur, extends N.E.; descend.  
Gulch, 20 lks. wide, course N.E.; ascend.  
Spur, extends E.N.E.; descend steep slope.  
Gulch, 20 lks. wide, course E.; ascent steep slope.  
Spur, extends E.; descend.  
Set a porphyry stone, 18 X 10 X 8 ins., 12 ins. in the ground for cor. of secs. 8, 9, 16 and 17, marked with 4 notches on the S. and E. edges, from which  
An oak, 18 ins. diam., brs. N. 11 1/2° E., 27 lks. dist., marked T 1 S R 14 E S 9 B T.  
An oak, 18 ins. diam., brs. S. 81 1/2° E., 29 lks. dist., marked T 1 S R 14 E S 16 B T.  
An oak, 5 ins. diam., brs. S. 88 1/2° W., 67 lks. dist., marked T 1 S R 14 E S 17 B T.  
An oak, 18 ins. diam., brs. N. 80° W., 25 lks. dist., marked T 1 S R 14 E S 8 B T.

Land, mountainous.  
Soil, gravelly, stony and rocky, 3rd and 4th rate.  
Timber, scattering oak, juniper and cedar; undergrowth, oak, laurel, tesotilla, johava, manzanita, mezcal Spanish bayonet and cacti.  
Mountainous land, covered with dense undergrowth, exceptionally difficult to survey, 80.00 chs.

September 22 AMI set off 0° 24' N. on the decl. arc, and observe the sun on the meridian; the resulting lat. is 33° 21' N.

40.00  
80.00

Run a random line bet. secs. 9 and 16.  
Set temp.  $\frac{1}{4}$  sec. cor.  
Intersect the N. and S. line 25 lks. N. of cor. of secs. 9, 10, 15 and 16.

8.40  
15.70  
21.80  
26.00  
31.45

Thence I run  
West on a true line bet. secs. 9 and 16.  
Over mountainous land, descending through dense brush.  
Gulch, 15 lks. wide, course E.N.W.; ascend.  
Top of N. slope of ridge, descend.  
Gulch, 30 lks. wide, course W.S.W.; ascend.  
S. slope of spur, descend.  
Gulch, 45 lks. wide, course N.N.W.

chmins	
31.80	Road brs. N.N.W.; ascend.
40.02	Point for $\frac{1}{4}$ sec. cor. falls on diorite stone in place, 18 X 18 X 16 ins. above the ground, marked with cross (x) for exact cor. point and $\frac{1}{4}$ N. of cross, from which A juniper, 30 ins. diam, brs. N. 20° E., 38 lks. dist., marked $\frac{1}{4}$ S 9 B T, A juniper, 6 ins. diam., brs. S. 21 $\frac{1}{2}$ ° E., 35 lks. dist., marked $\frac{1}{4}$ S 16 B T.
65.00	Ridge, extends N. and S.; descend.
73.65	Pinto Creek, 30 lks. wide, course N., thence N.E.; ascend.
80.02	The cor. of secs. 8, 9, 16 and 17. Land, mountainous. Soil, gravelly, stony and rocky, 3rd and 4th rate. Timber, scattering oak, pine and juniper, undergrowth, oak, manzanita, tesotilla, laurel, mezcal, Spanish bayonet and nopal cactus. Mountainous land, covered with dense undergrowth, exceptionally difficult to survey, 80.04 chs. September 23, 1906.
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	September 24, 1906. At 7 a.m., l.m.t., I set off 6° 12' 9" on the decl. arc and 33° 21' N. on the lat. arc and determine a true meridian with the solar at the cor. of secs. 8, 9, 16 and 17. Thence I run, N. 0° 2' W., bet. secs. 8 and 9. Over mountainous land, descending through dense brush, Gulch, 20 lks. wide, course E.; ascend steep slope. 2.00 12.70 Spur, extends E.; descend. 28.00 Gulch, 20 lks. wide, course E., ascend. 33.80 Trail, brs. E. and W. 39.00 Spur, extends E., begin steep, rocky descent. 40.00 Set a granite stone, 18 X 7 X 5 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high. W. of cor. Pits impracticable. 54.80 Pinto creek, 450 feet below top of spur, 25 lks. wide, course N.W.; leave dense brush; ascend steep grade. 63.80 Ridge, brs. E. and W., reenter dense brush; descend. 75.70 Tunnel, brs. East, 5.00 chs. dist. 78.00 Trail, brs. E. and W. 79.55 Tunnel, 20 lks. wide, course W. 80.00 Set a quartzite stone, 21 X 8 X 5 ins., 16 ins. in the ground, at cor. of secs. 4, 5, 8 and 9, marked with 5 notches on the S. and 4 notches on the E. edges, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, mountainous. Soil, stony and rocky; 4th grade. Timber, a few oak, juniper and cedar and some sycamore and ash in Pinto Creek canyon; undergrowth, oak, manzanita, laurel, tesotilla, Spanish bayonet, mezcal and cacti. Mountainous land, covered with dense undergrowth, exceptionally difficult to survey, 80.00 chs.
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	September 24, 1906. At 5:52 AM, I set off 6° 10' 3" on the decl. arc and observe the sun on the meridian; the resulting lat. is 33° 22' N. East on a random bet. secs. 4 and 9. 40.00 Set top $\frac{1}{4}$ sec. cor. 80.02 Intersect the N. and S. line at the cor. of secs. 3, 4, 9 and 10. Thence I run, West on a true line bet. secs. 4 and 9. Over mountainous land, ascending over granite boulders and dense brush. 2.50 Gulch, 20 lks. wide, course N., thence N.E. 7.70 Open cut, 15 lks. wide, course N.



Subdivision of T. 1 South, R. 14 East.

chains	
10.00	Shaft on line.
10.55	Shaft on line.
18.55	Ridge, extends N.N.E. and S.S.W
24.00	Ridge, extends N.E.
28.00	Descend.
40.01	Set a granite stone, 18 X 8 X 6 ins., in mound of stone, for <del>sec. cor.</del> 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.
55.00	Trail, brs. S.E. and N.W.
60.00	Gulch, 35 lks. wide, course N.; ascend.
70.00	Ridge, extends N. and S.; descend.
77.20	Gulch, 15 lks. wide, course N.; ascend.
	Trail brs. N. and S.
80.02	The cor. of secs, 4, 5, 8 and 9. Land, mountainous. Soil, gravelly, stony and rocky; 3rd and 4th rate. Timber, a few cedar, juniper and oak; undergrowth, oak, manzanita, laurel, tesotilla, Spanish bayonet and cactus. Mountainous land, covered with dense undergrowth, exceptionally difficult to survey, 80.02 chs.
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	N. 90° 2' W., bet. secs. 4 and 5. Over mountainous land, descending through dense brush.
.70	Gulch, 15 lks. wide, course E.; ascend.
6.00	Spur, extends E.; thence descend along east slope of ridge bearing N. and S.
35.50	Gulch, 25 lks. wide, course W., ascend.
40.00	Set a granite stone, 18 X 10 X 5 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
40.20	Ridge, extends E. and W.; descend.
53.70	Gulch, 10 lks. wide, course S.W.; ascend.
61.40	Ridge, extends E. and W.; descend.
66.50	Gulch, 25 lks. wide, course N.W., thence S.W.; ascend.
75.70	Intersect the N. bdy. of Tp. 15.80 chs. E. of Standard $\frac{1}{4}$ of sec. 32, T. 1 N. R. 14 E.  Set a granite stone, 16 X 10 X 10 ins., in mound of stone, for closing cor. of secs. 4 and 5, marked C C on S., with 2 grooves on W. and 4 grooves on E. faces, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, S. of cor. Pits impracticable. Land, mountainous. Soil, gravelly, stony and rocky; 3rd and 4th rate. Timber, scattering oak, juniper and cedar; undergrowth, oak, manzanita, laurel, tesotilla, Spanish bayonet, and cacti. Mountainous land, covered with dense undergrowth, exceptionally difficult to survey, 75.70 chs.
September 24, 1906.	
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September 24: At 7 a.m., I set off on a trip on the decl. arc and 33° 17' N. on the lat. arc and determine a true meridian with the solar at the cor. of secs. 4, 5, 31 and 32, on the S. bdy. of tp. Thence I run N. 90° 2' W. bet. secs. 31 and 32. Over mountainous land, descending.	
2.50	Gulch, 20 lks. wide, course E.; ascend.
7.00	Spur, extends E.; descend.
12.00	Gulch, 20 lks. wide, course E., ascend.
16.00	Spur, extends E., descend through heavy timber; ascend.

Subdivision of T. 1 South, R. 14 East.

chains

26.00

Gulch, 20 lks. wide, course E., descend; through heavy cedar timber.

28.00

Spur, extends E.; descend.

31.70

Gulch, 20 lks. wide, course S.E.; ascend.

40.00

Set a granite stone, 18 X 8 X 8 ins., in mound of stone, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on W. face, from which

A palo verde, 6 ins. diam., brs. S. 37° E., 51 lks. dist., marked  $\frac{1}{4}$  S 32 B T,

A cedar, 10 ins. diam., brs. N. 10 $\frac{1}{2}$ ° W., 123 lks. dist., marked  $\frac{1}{4}$  S 31 B T, and raise a mound of stone,

2 ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor.

53.00

Rocky ridge, extends S.E. and N.W., thence descend along E. slope of ridge, over spurs, extending east.

64.00

Gulch, 20 lks. wide, course E.

68.40

Gulch 20 lks. wide, course E.

73.70

Gulch, 20 lks. wide, course E.

80.00

Set a sandstone, 18 X 10 X 10 ins., 12 ins. in the ground, for the cor. of secs. 29, 30, 31 and 32, marked with 1 notch on S. and 5 notches on E. edges, from which

An oak, 6 ins. diam., brs. N. 59° W., 94 lks. dist., marked T 1 S R 14 E S 30 B T, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor., pits impracticable. No other trees available.

Land, mountainous.  
Soil, gravelly, stony and rocky; 3rd and 4th rate.  
Timber, cedar and scattering oak; palo verde and mesquite; undergrowth, oak, johava, mesquite, tesotilla, mezcal, Spanish bayonet and cacti.  
Mountainous land, heavily timbered or covered with dense undergrowth, exceptionally difficult to survey,  
80.00 chs.

40.00

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Back on a random line bet. secs. 29 and 32.

80.04

Intersect at the E. and S. line at the cor. of secs. 28, 29, 32 and 33.

Thence I run,

Back on a true line bet. secs. 29 and 32.

Over mountainous land, ascending.

3.60

Ridge extends N. and S.; descend along N. slope of spur.

5.70

Trail brs. N. and S.

28.00

Gulch, 30 lks. wide, course S.; thence W.S.W.; ascend.

36.00

Spur, extends S.; descend.

51.60

Gulch, 50 lks. wide, course S., thence W.S.W.; ascend.

40.02

Set a silicate stone, 18 X 7 X 5 ins. 12 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on N. face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$  ft. high, N. of cor. Pits impracticable.

44.00

N. side of same gulch; ascend.

48.40

Ridge, extends S.W. and N.E.; descend.

53.00

Dry fork of Mineral Creek, 60 lks. wide, course S.W. Ascend.

60.65

Ridge, extends N. and S.; trail brs. N. and S.; descend.

67.70

Gulch, 40 lks. wide, course S.; ascend.

71.00

Spur, extends S.E.; descend.

75.30

Gulch, 30 lks. wide, course S.E.; ascend.

80.04

The cor. of secs. 29, 30, 31 and 32.

Land, mountainous.

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

Timber, scattering cedar and mesquite; undergrowth, oak, johava, mesquite, tesotilla, mezcal, Spanish bayonet and cactus.

Mountainous land, exceptionally difficult to survey,  
80.04 chs.

chains

40.00  
78.45

29.20  
37.60  
38.45

39.20  
55.90

78.45

September 25: At 11:52 A.M. I set off  $8^{\circ}42'30''$  S. on the decl. arc and observe the sun on the meridian; the resulting lat. is  $35^{\circ}18' N.$

West on a random line bet. secs. 30 and 31.

Intersect the W. bdy. of the tp. 47 lks. N. of the cor. of secs. 29, 30, 31 and 32, which is a cross on a granite boulder, 16 X 8 X 12, ins. above ground, marked and witnessed as described by the surveyor general.

Thence I run, N.  $89^{\circ}40'$  E., on a true line bet. secs. 30 and 31. Over mountainous land, descending over large boulders. Enter draw and dense brush, extends N. and S. Gulch, 40 lks. wide, course S.

Point for  $\frac{1}{4}$  sec. cor. falls on a blanket sandstone ledge, which I mark with cross (x) for exact  $\frac{1}{4}$  sec. cor. point, from which

- A mesquite tree, 8 ins. diam., brs. N.  $14\frac{1}{2}^{\circ}$  E., 205 lks. dist., marked  $\frac{1}{4}$  S 30 B T,
- A mesquite tree, 5 ins. diam., brs. S.  $63\frac{1}{2}^{\circ}$  W., 209 lks. dist., marked  $\frac{1}{4}$  S 31 B T, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

Leave draw and dense brush; ascend. Ridge, extends N. and S.; begin steep descent through dense oak and johava brush.

The cor. of secs. 29, 30, 31 and 32. Land, mountainous and level. Soil, gravelly, stony and rocky; 3rd and 4th rate. Timber, scattering oak, cedar and mesquite; undergrowth, oak, johava, mesquite, tesotilla, Spanish bayonet manzanita and casti.

Mountainous, or land covered with dense undergrowth, exceptionally difficult to survey, 45 chs.

September 25, 1906.

September 26: At 7 a.m., I set off  $8^{\circ}42'30''$  S. on the decl. arc, and  $35^{\circ}18' N.$  on the lat. arc and determine a true meridian with the solar at the cor. of secs. 29, 30, 31 and 32.

Thence I run, N.  $0^{\circ}5'$  W., bet. secs. 29 and 30. Over mountainous land, descending along E. slope of ridge.

- Gulch, 20 lks. wide, course E.S.E.; ascend.
- Spur, extends E.; descend.
- Gulch, 20 lks. wide, course E.; ascend.
- Spur, extends S.E.; descend over small spurs extending E.
- Gulch, 40 lks. wide, course S.S.E.; begin ascent along W. slope of ridge.

Point for  $\frac{1}{4}$  sec. cor. falls on blanket ledge of slaty rock, which I mark with cross (x) for exact  $\frac{1}{4}$  sec. cor. point and  $\frac{1}{4}$  W. of cross, from which

- A cedar, 12 ins. diam., brs. S.  $46\frac{1}{2}^{\circ}$  W., 74 lks. dist., marked  $\frac{1}{4}$  S 30 B T, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor. No other tree available.

- Gulch, 30 lks. wide, course W.
- Top of W. slope of ridge; descend through dense brush.
- Gulch, 30 lks. wide, course S.W.; leave dense brush and ascend steep slope.

Set a sand stone, 18 X 10 X 5 ins., 12 ins. <sup>in the ground</sup> diam., for cor. of secs. 19, 20, 29 and 30, marked with 2 notches on S. and 5 notches on E. edge, and raise a mound of stone, 3 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.

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

2.00  
3.80  
5.00  
10.45  
34.40  
40.00  
55.00  
59.50  
66.40  
80.00

Subdivision of T. 1 South, R. 14 East.

chains	<p>Timber, scattering cedar; undergrowth, oak, johava, mezoal, Spanish bayonet and cacti.</p> <p>Mountainous land, or land covered with dense undergrowth, exceptionally difficult to survey, 80.00 chs.</p> <p>-----</p> <p>September 25 11h52mAM., I set off 1° 28' S N. on the decl. arc, and observe the sun on the meridian; the resulting lat. is 35° 19' N.</p> <p>East on a random line bet. secs. 20 and 29.</p> <p>40.00 Set temp. 1/4 sec. cor.</p> <p>80.12 Intersect the N. and S. line 14 lks. S. of cor. of secs. 20, 21, 28 and 29.</p> <p>Thence I run,</p> <p>S. 89° 54' W., on a true line bet. secs. 20 and 29.</p> <p>Over mountainous land, ascending through dense brush.</p> <p>1.80 Top of ascent, brs. N. and S., thence descending along N. slope of spur; extending W., along S. side of gulch, course W.</p> <p>40.06 Set a silicate stone, 18 X 6 X 6 ins., in mound of stone, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor. Pits impracticable.</p> <p>41.35 Gulch, 30 lks. wide, course S.W.; ascend.</p> <p>43.40 Spur, extends S.W.; descend.</p> <p>47.00 Dry fork of Mineral Creek, 60 lks. wide, course S.S.E.; begin steep ascent.</p> <p>67.20 Trail, brs. N.N.W. and S.S.E.</p> <p>70.00 Ridge, 600 ft. above creek, extends E.S.E. and W.N.W., thence along S. slope of ridge.</p> <p>80.12 The cor. of secs. 19, 20, 29 and 30.</p> <p>Land, mountainous.</p> <p>Soil, gravelly, stony and rocky; 3rd and 4th rate.</p> <p>Timber, a few cedar and mesquite; undergrowth, oak, johava, manzanita, mesquite; tesotilla, Spanish bayonet mesoal and cacti.</p> <p>Mountainous land, exceptionally difficult to survey, 80.12 chs.</p> <p>-----</p> <p>September 26, 1906.</p> <p>-----</p> <p>September 27; At 7 a.m., 1.m.t., I set off 1° 28' S N. on the decl. arc and 35° 19' N. on the lat. arc and determine a true meridian with the solar at the cor. of secs. 19, 20, 29 and 30.</p> <p>Thence I run,</p> <p>S. 89° 49' W. on a random line bet. secs. 19 and 30.</p> <p>40.00 Set temp. 1/4 sec. cor.</p> <p>78.50 Intersect the W. bdy. of the tp. 23 lks. S. of the cor. of secs. 15, 18, 19 and 24, which is a granite stone, in a mound of stone, marked and witnessed as described by the Surveyor General.</p> <p>Thence I run,</p> <p>N. 89° 50' E., on a true line bet. secs. 19 and 30.</p> <p>Over mountainous land, descending over rocky ground.</p> <p>12.00 Descend over bluffs.</p> <p>17.00 Foot of bluffs.</p> <p>20.00 Enter dense brush, brs. N. and S.</p> <p>22.50 Point for 1/4 sec. cor. falls on porphyry rock in place, 18 X 18 X 18 ins. above ground, which I mark with a cross (x) for exact cor. point and 1/4 N. of cross, from which</p> <p>A manzanita tree, 12 ins. diam., brs. N. 1° E., 18 lks. dist., marked 1/4 S 19 B T,</p> <p>A manzanita tree, 10 ins. diam., brs. S. 83 1/2° E., 52 lks. dist., marked 1/4 S 30 B T, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.</p> <p>42.75 Gulch, 30 lks. wide, course E.S.E.; ascend through dense brush.</p> <p>46.25 Spur, extends S.S.E.; descend.</p> <p>49.65 Gulch, 40 lks. wide, course S.; ascend.</p> <p>53.25 Tunnel, brs. S., 8.00 chs. dist.</p> <p>62.25 Spur, extends S., leave dense brush, thence along S. slope of ridge.</p>
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Subdivision of T. 1 South, R. 14 East.

chains	
65.00	Gulch, 20 lks. wide, course S.; ascend.
69.50	Spur, extends S., descend.
71.65	Gulch, 20 lks. wide, course S.; ascend.
78.50	The cor. of secs. 19, 20, 29 and 30. Land, mountainous. Soil, gravelly, stony and rocky; 3rd and 4th rate. Timber, scattering cedar; undergrowth, oak, johava, mesquite, tesotilla, Spanish bayonet, manzanita, mezcal and cacti. Mountainous land, or land covered with dense undergrowth, exceptionally difficult to survey, 78.50 chs.
-----	
	N. 0° 3' W., bet. secs. 19 and 20. Over mountainous land, ascending.
7.90	Trail brs. N.W. and S.E.
11.00	Ridge, extends N.W. and S.E.; descend through dense brush.
18.40	Gulch, 20 lks. wide, course N.E.
24.80	Gulch, 30 lks. wide, course E; begin steep ascent.
26.00	Leave dense brush, extends E. and W.
40.00	Set a quartzite stone, 18 X 12 X 10 ins., in mound of stone, for $\frac{1}{2}$ sec. cor., marked $\frac{1}{2}$ on W. face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
41.00	Reenter dense brush, brs. S.E. and N.W.
42.85	Open out on line.
51.00	Spur, extends S.E., thence along E. slope.
55.00	Trail, brs. N.N.E. and S.S.W.
61.50	Gulch, 20 lks. wide, course E.
78.50	Crenshaw's camp brs. E., 6.00 chs. dist.
77.40	Gulch, 20 lks. wide, course S.S.E.; ascend.
80.00	Set a quartzite stone, 18 X 8 X 8 ins., in mound of stone, for cor. of secs. 17, 18, 19 and 20, marked with 3 notches on S. and 5 notches on E. edges, from which An oak, 8 ins. diam., brs. N. 78° E., 137 lks. dist., marked T I S R 14 E S 17 B T, An oak, 5 ins. diam., brs. S. 35° E., 62 lks. dist., marked T I S R 14 E S 20 B T, An oak, 6 ins. diam., brs. W. 78° W., 30 lks. dist., marked T I S R 14 E S 19 B T, An oak, 5 ins. diam., brs. N. 24° W., 30 lks. dist., marked T I S R 14 E S 18 B T, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Land, mountainous. Soil, gravelly and stony; 3rd and 4th rate. Timber, scattering cedar and oak; undergrowth, oak, johava, manzanita, mezcal and cacti. Mountainous land, or land covered with dense undergrowth, exceptionally difficult to survey, 80.00 chs.
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	September 25: 11:51 AM. I set off 1:55° E. on the decl. arc, and observe the sun on the meridian, the resulting lat. is 35° 20' N. N. 50° 54' E. on a random line bet. secs. 17 and 20.
40.00	Set temp. $\frac{1}{2}$ sec. cor.
80.26	Intersect the N. and S. line 14 lks. N. of cor. of secs. 16, 17, 20 and 21. Thence I run S. 89° 18' W. on a true line bet. secs. 17 and 20. Over mountainous land, ascending through dense brush.
2.20	Ridge, extends N. and S.; shaft on line; descend.
3.00	Gulch, 20 lks. wide, course N.E.; ascend.
6.20	Spur, brs. S. 160 lks. dist.
8.20	Spur, brs. N. and S.; descend.
12.00	Spur, brs. S. and E.
14.40	Spur, brs. E. 220 lks. dist.

Subdivision of T. 1 South, R. 14 East.

chains  
24.20 Gulch, 20 lks. wide, course S.; ascend.  
29.80 Spur, extends S.E.; descend.  
35.40 Gulch, 20 lks. wide, course S.E.; ascend.  
40.00 Spur, extends S.E.  
40.13 Set a schist stone, 18 X 10 X 5 ins., in mound of stone, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on N. face, and raise a mound of stone, 3 ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.  
Descend.  
47.40 Tunnel, brs. S. 7.00 chs. dist.  
49.60 Gulch, 20 lks. wide, course S.E.; leave dense brush; ascend.  
49.80 Open cut, brs. N. 80 lks. dist.  
49.90 Open cut, brs. S. 60 lks. dist.  
51.60 Spur, extends S.E.; descend; trail brs. N. and S.  
52.40 Tunnel, brs. N. 2.00 chs. dist.  
53.60 Shaft, brs. N. 7.00 chs. dist. Beck's camp brs. N. 10.00 chs. dist.  
56.60 Gulch, 20 lks. wide, course S.E.; ascend through dense brush.  
59.70 Trail, brs. N. and S.  
64.40 Spur, extends S.; descend.  
71.10 Dry fork of Mineral Creek course S. 20 lks. wide ascend.  
75.40 Spur, extends S.; descend.  
77.35 Trail, brs. N. and S.  
80.26 The cor. of secs. 17, 18, 19 and 20.  
Land, mountainous.  
Soil, gravelly, stony and rocky; 3rd and 4th rate.  
Timber, scattering oak, cedar and juniper; undergrowth oak, laurel, johava, manzanita, mezcal, Spanish bayonet, and cacti.  
Mountainous, or land covered with dense undergrowth, exceptionally difficult to survey. 80.26 chs.  
September 27, 1906.

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September 28, 1906. At 7 a.m., l.m.t., I set off  $45^{\circ} 13'$  N. on the decl. arc and  $33^{\circ} 20'$  N. on the lat. arc and determine a true meridian with the solar at the cor. of secs. 17, 18, 19 and 20.  
Thence I run,  
S.  $89^{\circ} 50'$  W., on a random line bet. secs. 18 and 19.  
40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
78.57 Intersect the W. bdy. of tp. 12 lks. N. of cor. of secs. 15, 18, 19 and 24, which is a granite stone, 10 X 5 X 12 ins. above ground, marked and witnessed as described by the Surveyor General.  
Thence I run,  
N.  $89^{\circ} 30'$  E. on a true line bet. secs. 18 and 19.  
Over mountainous land, ascending through scattering timber and oak brush.  
11.00 Gulch, 20 lks. wide, course N.  
13.00 Camp of the American Copper Co. brs. S. 50 chs. dist.  
18.70 Trail, brs. N. W. and S.E.  
38.00 Gulch, 15 lks. wide, course N.W. ascend steeper.  
38.57 Spring ~~granite~~ falls on a granite stone in place, 30 X 24 X 18 ins. above ground, which I mark with cross (x) for exact  $\frac{1}{4}$  sec. cor. point, and  $\frac{1}{4}$  N. of cross, from which  
An oak, 6 ins. diam., brs. S.  $30^{\circ}$  E., 96 lks. dist., marked  $\frac{1}{4}$  S 19 B T,  
An oak, 6 ins. diam., brs. N.  $73^{\circ}$  W., 19 lks. dist., marked  $\frac{1}{4}$  S 19 B T.  
49.70 Same gulch, 15 lks. wide, course S.W.  
44.30 Spur, extends S., thence along S. slope of ridge.  
45.60 Road, brs. W.S.W. and E.N.E. to mining camp.  
53.10 Gulch, 15 lks. wide, course S.  
57.45 Gulch, 20 lks. wide, course S.; ascend.  
70.00 Begin steep descent.

Subdivision of T. 1 South, R. 14 East.

chains	Trail brs. N. and S.
72.95	Gulch, 20 lks. wide, course S.; ascend.
76.80	The cor. of secs. 17, 18, 19 and 20.
78.37	Land, mountainous. Soil, gravelly, stony and rocky; 3rd and 4th rate. Timber, scattering oak and cedar; undergrowth, oak, mescal, yohave, manzanita, Spanish bayonet and cacti. Mountainous land, exceptionally difficult to survey, 78.57 chs.
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	N. 0° 5' W., bet. secs. 17 and 18. Over mountainous land, ascending through scattering oak timber and dense brush.
4.10	Trail brs. N.W. and S.E.
10.50	Same trail, brs. N.E. and S.W.
15.30	Ridge, brs. E. and W.
17.70	Ridge, extends E. and W.; descend.
20.00	Gulch, 15 lks. wide, course N.N.E.
23.20	Same gulch, 15 lks. wide, course N.N.W.
29.40	Open cut, 60 lks. wide, course W.
33.70	Gulch, 20 lks. wide, course W.N.W.; ascend.
38.00	Top of N. slope of spur, extends W.; descend.
40.00	Set a porphyry stone, 18 X 6 X 6 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, from which A cedar, 20 ins. diam., brs. S. 7 $\frac{1}{2}$ ° E., 120 lks. dist., marked $\frac{1}{4}$ S 17 B T. A cedar, 8 ins. diam., brs. S. 84 $\frac{1}{2}$ ° W., 135 lks. dist., marked $\frac{1}{4}$ S 18 B T.
55.10	Gulch, 30 lks. wide, course N.E.; ascend over granite boulders.
64.50	Rocky ridge, extends E. and W.; descend.
80.00	Point for cor. of secs. 7, 8, 17 and 18 falls on granite boulder in place, 24 X 24 X 20 ins. above ground, which I mark with cross (x) for exact cor. point, and a groove S. and 5 grooves E. of cross, and raise a mound of stone, 2 ft. base, 12 ft. high, N. of cor. Pits insignificant. Land, mountainous. Soil, gravelly, stony and rocky; 3rd and 4th rate. Timber, scattering oak, juniper and cedar; undergrowth, oak, manzanita, laurel, tesotilla, mescal, Spanish bayonet and cacti. Mountainous land, covered with dense undergrowth, exceptionally difficult to survey, 80.00 chs.
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	September 28, 1880. I set off on the decl. arc, and the resulting lat. is 53° 20' N. N. 89° 48' E. on a random line bet. secs. 8 and 17.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.95	Intersect the N. and S. line 37 lks. N. of cor. of secs. 8 and 17. This line is on a true line bet. sec. 8 and 17. Mountainous land, ascending through scattering oak timber and dense brush.
19.00	Spur, 400 ft. above sec. cor., extends E.
33.00	Ascend, brs. N.W.
37.00	Trail brs. N. and S.
41.50	Point for $\frac{1}{4}$ sec. cor. falls on granite boulder in place, 30 X 30 X 15 ins. above ground, which I mark with cross (x) for exact cor. point, and 5 grooves E. of cross, and 1 groove S. of cross, and raise a mound of stone, 2 ft. base, 12 ft. high, N. of cor. which I mark with cross (x) for exact cor. point, and a groove S. and 5 grooves E. of cross, and raise a mound of stone, 2 ft. base, 12 ft. high, N. of cor. Pits insignificant. An oak, 12 ins. diam., brs. S. 81° E., 121 lks. dist., marked $\frac{1}{4}$ S 17 B T.
42.70	Enter district covered with granite boulders.
50.00	Gulch, 30 lks. wide, course N., ascend.
64.70	Spur, extends E., descend. Rocky gulch, 30 lks. wide, course N.; ascend.



Subdivision of T. 1 South, R. 14 East.

BOOK 2052

chains

68.00  
70.80  
78.00  
79.98

Leave boulders, extend N. and S.  
Ridge, extends N. and S.; reenter boulders; descend.  
Gulch, 15 lks. wide, course N.W.  
The cor. of secs. 7, 8, 17 and 18.  
Land, mountainous.  
Soil, stony and rocky; 4th rate.  
Timber, scattering oak and cedar; undergrowth, oak, laurel, manzanita, johava, tesotilla, mezcal, Spanish bayonet and cacti.  
Mountainous land, covered with dense undergrowth, exceptionally difficult to survey, 79.98 chs.  
September 28, 1906.

September 29: At 7 a.m., l.m.t., I set off 2° 09' S. on the decl. arc and 33° 21' N. on the lat. arc and determine a true meridian with the solar at the cor. of secs. 7, 8, 17 and 18.

Thence I run, S. 89° 45' W., on a true line bet. secs. 7 and 18. Descending through heavy timber and dense brush.

2.80  
11.10  
28.10  
35.10

Gulch, 30 lks. wide, course, N. ascend.  
Ridge, extends N and S.; descend.  
Gulch, 30 lks. wide, course N.N.E.; ascend.  
Rocky spur; extends N. and S. & begins descend over granite boulders.

45.00

Point for 1/4 sec. cor., falls on granite rock in place, 5 X 4 X 2 ft. above ground, marked with cross (x) for exact 1/4 cor. point, and 1/4 S N. of cross, from which

An oak tree, 6 ins. diam., brs. N. 28° E., 65 lks. dist., marked 1/4 S 7 B T.  
An oak tree, 5 ins. diam., brs. S. 36° E., 16 lks. dist., marked 1/4 S 18 B T.

51.10

Head of wash brs. S. 1.00 ch. dist.

53.10

Leave granite boulders; ascend along N. side of wash.

65.00

Draw, 30 lks. wide, course W N W;

78.10

Set a trachyte stone, 18 X 8 X 8 ins., 12 ins. in the ground, for closing cor. of secs. 7 and 18, marked C C on E., with 4 grooves on S. and 2 grooves on N. faces, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, E. of cor. C. C. is 80 lks. N. of cor. to secs. Land, mountainous. (12 & 13 as described by the Surveyor Genl Soil, sandy, gravelly, stony and rocky; 3rd and 4th rate.

Timber; oak and scattering juniper, cedar and pinon. Undergrowth; oak, laurel, manzanita, mezcal, tesotilla, johava, mesquite, Spanish bayonet and cacti. Mountainous, heavily timbered land, covered with dense undergrowth, exceptionally difficult to survey, 78.10 chs.

September 29: 11h51m AM I set off 2° 16' S. on the decl. arc, and observe the sun on the meridian; the resulting lat. is 33° 21' N.

N. 9° 5' W., bet. secs. 7 and 8.

Over mountainous land, descending through scattering oak timber and dense brush, over granite boulders.

8.00

Gulch, 15 lks. wide, course N.W.; ascend.

7.40

Mining camp, brs. W. 8.00 chs. dist.

11.20

Road, brs. E. and W.

12.00

Frame house, shaft and dump br. W. 8.00 chs. dist.

18.00

Rocky spur, extends N.W.; descend.

26.00

Gulch, 40 lks. wide, course N.W.; ascend.

28.40

Road, brs. NW and S.E.

31.50

Shaft and dump br, W., 3.00 chs. dist.

36.00

Top of rocky knoll; descend.

38.20

Foot of descent; brs. E. and W.

40.00

Tent, brs. W., 1.00 ch. dist.

42.00

Road, brs. E. and W.



chains  
40.00 Set a quartzite stone, 18 X 8 X 6 ins., 12 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on W. face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor., Pits impracticable.  
An oak tree, 5 ins. diam., brs. N. 67° E., 118 lks. dist., marked  $\frac{1}{4}$  S 8 B T, No other tree in limits.  
A tent, brs. W., 40 lks. dist.  
N.E. cor. of frame house, brs. N. 11 $\frac{1}{2}$ ° W., 63 lks. dist.

41.80 Ascend 60 feet.  
42.00 Top of ascent, brs. E. and W.; thence over plateau.  
64.00 Begin rocky descent.  
70.60 Mining camp, brs. W., 6.00 chs. dist.  
73.70 Shaft and dump, br. W., 5.00 chs. dist.; descend.  
77.00 Descent steeper.  
80.00 Set a granite stone, 18 X 10 X 7 ins., 12 ins. in the ground for cor. of secs. 5, 6, 7 and 8, marked with 5 notches on S. and E. edges, from which  
A cedar tree, 12 ins. diam., brs. N, 83° E., 127 lks. dist., marked T 1 S R 14 E S 5 B T,  
An oak tree, 8 ins. diam., brs. S, 44° E., 195 lks. dist., marked T 1 S R 14 E S 6 B T,  
An oak tree, 10 ins. diam., brs. S, 45° W., 121 lks. dist., marked T 1 S R 14 E S 7 B T,  
An oak tree, 5 ins. diam., brs. N, 50° W., 56 lks. dist., marked T 1 S R 14 E S 6 B T.

Land, mountainous.  
Soil, stony and rocky; 4th rate.  
Timber, scattering oak, juniper and cedar; undergrowth, oak, manzanita, tesotilla, laurel, mesquit, Spanish bayonet and cacti.  
Mountainous, or heavily timbered land, or land covered with dense undergrowth, exceptionally difficult to survey, 80.00 chs.

September 29, 1906.

September 30: At 7 a.m., l.m.t., I set off 2° 32' S. on the decl. arc and 33° 23' N. on the lat. arc and determine a true meridian with the solar at the cor. of secs. 5, 6, 7 and 8.  
Thence I run,  
S. 89° 55' E. on a random line bet. secs. 5 and 8.  
40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
80.02 Intersect the N. and S. line 14 lks. S. of cor. of secs. 4, 5, 8 and 9.  
Thence I run,  
S. 89° 55' W., on a true line bet. secs. 5 and 8,  
over mountainous land, ascending through dense brush.  
7.00 Spur, extends W.; descend.  
10.55 Gulch, 30 lks. wide, course E.N.E.; ascend.  
13.75 Ridge, extends N. and S.; descend.  
32.70 Pinto creek, 400 feet below ridge, 60 lks. wide, course N.W.; ascend steep.  
40.01 Set a granite stone, 18 X 6 X 6 ins., 12 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  S on E. face, from which  
A cedar tree, 5 ins. diam., brs. S, 53° E., 95 lks. dist., marked  $\frac{1}{4}$  S 8 B T,  
A cedar tree, 12 ins. diam., brs. N, 71° 45' W., 234 lks. dist., marked  $\frac{1}{4}$  S 5 B T.  
56.80 A ridge, extends N. and S.; descend.  
63.80 Rocky gulch, 30 lks. wide, course N.; begin steep ascent over large boulders.  
70.40 Top of ascent, extends N. and S.; thence along N. slope of ridge.  
80.02 The cor. of secs. 5, 6, 7 and 8.  
Land, mountainous.

Subdivision of T. 1 South, R. 14 East.

chains	
	Soil, stony and rocky; 4th rate. Timber, scattering oak, cedar and juniper; undergrowth, oak, manzanita, laurel, tesotilla, mezcal, Spanish bayonet and cacti. Mountainous land, covered with dense undergrowth, exceptionally difficult to survey 80.02 chs. September 30: <del>Alhambra</del> set off 2° 39' S. on the decl. arc and observe the sun on the meridian; the resulting lat. is 53° 22' N.
	----- S. 89° 45' W. on a true line bet secs. 6 and 7. Over mountainous land, descending through scattering timber and dense brush.
20.35	Gulch, 15 lks. wide, course N. ascend, along N. slope of ridge.
22.10	Top, extends N. and S. Descend.
31.90	Gulch, 30 lks. wide, course N., thence N.W. Ascend.
34.05	Spor, extends N., descend.
39.00	Point for 1/4 sec. cor. falls on granite stone in place, 30 X 30 X 18 ins. above ground, which I mark with a cross (x) for exact 1/4 sec. cor. point and 1/4 S N. of cross, from which
40.00	A cedar tree, 5 ins. diam., brs. S. 25° 45' W., 138 lks. dist., marked 1/4 S B T, An oak tree, 5 ins. diam., brs. N 0° 30' W., 70 lks. dist., marked 1/4 S B T.
42.55	Gulch, 40 lks. wide, course N., ascend.
51.91	Ridge, extends N. and S.; descend, over granite boulders.
55.25	Gulch, 10 lks. wide, course N.; ascend.
61.25	Wood, brs. N. and S.
62.00	Ridge, extends N.N.W. and S.S.E., leave granite boulders.
66.35	Gravel road, brs. S.W. and N.E.
68.10	Spur, and dump; br. S., 2.00 chs. dist.
75.00	Intersect the W. bdy. of tp, where I set a quartz stone, 12 X 10 X 7, 12 ins. in the ground, for closing cor. of secs. 6 and 7, marked C C on E. face, and with 5 grooves on S. and 1 groove on N. faces, and raise a band of stone, 2 ft. base, 1 1/2 ft. high, E. of cor. Fits impracticable. C. C. is 1.10 lks. N. of the cor. of land, mountainous. (secs. 1 & 12 as described by Surv. Genl. Soil, gravelly, stony and rocky; 3rd and 4th rat C. Timber, scattering oak, cedar and juniper; undergrowth, oak, manzanita, laurel, tesotilla, mezcal, Spanish bayonet and cacti. Mountainous land, covered with dense undergrowth, exceptionally difficult to survey, 78.28 chs.
	----- N. 0° 3' W. on true line bet. secs. 5 and 6. Over mountainous land, descending through dense brush over granite boulders.
34.00	Leave boulders, extend E. and W.
40.00	Set a granite stone, 18 X 10 X 8 ins. 12 ins. in the ground for 1/4 sec. cor., marked 1/4 on W. face, from which A cedar tree, 20 ins. diam., brs. S. 8 1/2° E., 105 lks. dist., marked 1/4 S 5 B T, A cedar tree, 8 ins. diam., brs. S. 46° 1/2 W., 75 lks. dist., marked 1/4 S 6 B T. This cor. stands 600 ft. below sec. cor. and 50 ft. above creek.
41.00	Pinto creek, dry, 80 lks. wide, course W., thence N.W. Ascend.
48.15	Gulch, 20 lks. wide, course W.S.W.
57.30	Gulch, 20 lks. wide, course S.W.

Begin

Subdivision of T. 1 South, R. 14 East.

chains  
70.60  
73.00  
75.50

Same gulch, 20 lks. wide, course E.S.E. Ridge, 600 ft. above creek, extends E. and W., descend. Intersect the Gila and Salt River Base Line, 15.92 chs. E. of the 1/4 sec. cor. of secs. 31, T. 1 N. R. 14 E., which is a granite stone, 8 X 6 X 10 ins. above ground, marked and witnessed as established by surveyor General. I set a granite stone, 18 X 8 X 8 ins., 18 ins. in the ground, for closing cor. of secs. 5 and 6, marked with C on S. face, and 5 grooves on E. and 1 groove on W. face, from which

An oak tree, 9 ins. diam., brs. S. 3/4 W., 61 lks. dist., marked T 1 S R 14 E S 6 B 1.

Raise a mound of stone, 4 ft. base, 2 ft. high, S. of cor. Pits impracticable. No other trees available.

Land, mountainous. Soil, gravelly, stony and rocky, 5th and 14th base. Timber; scattering oak, cedar and juniper; undergrowth, oak, laurel, manzanita, tesotilla, mesquite, Spanish bayonet and cacti.

Mountainous land covered with dense undergrowth, exceptionally difficult to survey, 75.50 chs. September 30, 1906.

**General Description.**  
This township is mountainous. The soil is mostly gravelly, stony and rocky. Pine timber is found in the eastern part of the township on the western slope of Pinal mountains. Oak, and scattering juniper and cedar is found in all parts of the township, and some mesquite, ash and walnut in the canyons and patches. The township is very hilly. Pine wood runs through it from S.E. to N.W.; water is found at intervals in this wood the year round. The western part of the township is drained by the dry Gila and Salt River, toward South, while the Pinal Mountains run across the northern part of the township. There are quite a number of canyons in the township; Pinal's range is in the northern part of the township; several in Sec. 2, several in Sec. 3, and five in Sec. 4. In Sec. 5, position Camp in Sec. 6, the Pinal Mountains are in Sec. 7, position Camp in Sec. 8, and the Pinal Mountains are in Sec. 9. In Sec. 10, position Camp in Sec. 11. The tp. is chiefly valuable for its mines and timber. Beck's Camp is in Sec. 11.

U. S. Deputy Mineral Surveyor.

*Philip Conner*

4



Retracement of Portion of the West Bdy. of Tp. 1-S., R. 14-E.

(X)

chains	
	There appearing to be a discrepancy in the measurement of a portion of the West Bdy. of this township, I proceed to cor. of secs. 13, 18, 19 and 24 on the West bdy., which is a trachyte stone, 12 X 8 X 6 ins., above ground, marked and witnessed as described by the Surveyor General.
	October 1, 1906. At 7 h 30 m, a.m., l.m.t., I set off 2° 56' S. on the decl. arc and 33° 21' N. on the lat. arc and determine a true meridian with the solar at the cor. of secs. 13, 18, 19 and 24.
	Thence I run, North bet. secs. 13 and 18. Over level land.
32.05	Wash, 20 lks. wide, course W.S.W.; ascend.
39.66	Find $\frac{1}{4}$ sec. cor., which is a trachyte stone, 8 X 6 X 6 ins. above ground, marked and witnessed as described by the Surveyor General.
	Thence I continue from $\frac{1}{4}$ sec. cor. north, Top and along west slope.
45.03	Descend.
31.50	
39.60	Cor. of secs. 7, 13, 13 and 18, which is a trachyte stone, 8 X 6 X 8 ins., above ground, marked and witnessed as described by the Surveyor General.
-----	
	North bet. secs. 7 and 12, ascending.
11.30	Road brs. E. and W.
22.50	Ridge, brs. E. and W.; descend.
40.32	The $\frac{1}{4}$ sec. cor., which is a trachyte stone, 10 X 5 X 6 ins., above ground, marked and witnessed as described by the Surveyor General.
	Thence I continue north from the $\frac{1}{4}$ sec. cor.; ascending.
20.75	Sharp ridge, extends N.E. and S.W.; descend.
29.15	Dry wash, course W., 30 lks. wide; ascend.
39.43	The cor. of secs. 1, 6, 7 and 12, which is a quartzite stone, 10 X 5 X 6 ins. above ground, marked and witnessed as described by the Surveyor General.
-----	
	North bet. secs. 1 and 6; ascending.
10.70	Spur, sloping S.W.
14.90	Wash, 10 lks. wide, course W., ascend.
30.25	Ridge, extends E. and W., descend over broken slope.
38.48	The $\frac{1}{4}$ sec. cor., which is a quartzite stone, 8 X 6 X 6 ins. above ground, marked and witnessed as described by the Surveyor General.
	Thence I continue North from the $\frac{1}{4}$ sec. cor.
3.10	Bottom of descent; ascend.
11.15	Top of ridge, extends W.S.W. and E.N.E.; descend.
22.15	Dry wash, 40 lks. wide, course S.W.; ascend.
31.20	Top of ascent; descend.
38.58	Closing tp. cor., which is a quartzite stone, 8 X 6 X 6 ins. above ground, marked and witnessed as described by the Surveyor General.
	From this cor. the Standard tp. cor. brs. East 30.68 chs. dist.
	Note: Old cors. were changed to correspond to two sections only, and $\frac{1}{4}$ sec. cors. to one sec. only.
	Oct. 1, 1906.
-----	

from

to



FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Philip Bantz

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 1 S, R 14 E

showing the respective capacities in which they acted:

- John M. Grayson, Chairman.
- Arthur Pugh, Chairman.
- George Davis, Moundman.
- George Davis, Moundman.
- Wm. E. Boren, Axman.
- Wm. E. Boren, Axman.
- George Chudsey, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Philip Bantz

United States Deputy Surveyor, in surveying all those parts or portions of the

subdivision lines  
T 1 S, R 14 E

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

- John M. Grayson, Chairman. ✓
- Arthur Pugh, Chairman. ✓
- George Davis, Moundman. ✓
- George Davis, Moundman.
- Wm. E. Boren, Axman. ✓
- Wm. E. Boren, Axman.
- George Chudsey, Flagman. ✓

Subscribed and sworn to before me this 30<sup>th</sup> day of October, 1906. ✓

W. G. Power



63 (38)  
BOOK 2052

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Philip Centzen, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Frank D. Ingalls United States Surveyor General for Arizona, bearing date of the 17 day of April, 1906, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Arizona, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of The Subdivision Lines Trumship No. 1 South, Range No. 14 East of the Gila and Salt River Basin 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.

Philip Centzen  
United States Deputy Surveyor.

Subscribed by said Philip Centzen, and sworn to before me }  
this 27<sup>th</sup> day of December, 1906

W. C. Pritchard  
U.S. Commissioner



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Ar., March 30<sup>th</sup>, 1907

The foregoing field notes of the survey of the subdivisions of T. 1 S., R. 14 E., of the Gila and Salt River Basin and Meridian, in the territory of Arizona.

executed by Philip Centzen, U.S. deputy surveyor under his contract No. 138, dated April 12, 1906, 190, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Frank D. Ingalls  
United States Surveyor General.

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

United States Surveyor General.