

BOOK 1916  
4-679.

CO. No. 1010.1  
107  
APR 25 1907

1916

BOOK 1916

FIELD NOTES

OF THE SURVEY OF THE

Subdivisional lines of Tp 23 n., R 6 W.

1916

Of the Gila & Salt River Base & Meridian,

AS SURVEYED BY

Edgar C. Dietrich, United States Deputy Surveyor,

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

Survey commenced September 13, 1906

Survey completed September 30, 1906

708  
114

BOOK 1916

NAMES AND DUTIES OF ASSISTANTS.

O. A. McCathern }  
Clarence M. Poole } Chairmen,

Jean Mazarin Moundman  
Charles Gardner Axman  
Jim Mahon Flagman

BOOK 1916

INDEX DIAGRAM.

Township 23 N., Range 6 W.

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Meanders Page.....

#10  
BOOK 1916

PRELIMINARY OATHS OF ASSISTANTS.

WE, O. A. McCathern and Clarence M. Poole

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

Subdivisional lines of Sp 23 N., R. 6 W.

O. A. McCathern, Chainman.

Clarence M. Poole, Chainman.

Subscribed and sworn to before me this 1st day of September, 1906

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



~~WE~~ I, Jean Mazarin

do solemnly swear that ~~we~~ I will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given <sup>me</sup> ~~us~~, to the best of <sup>my</sup> ~~our~~ skill and ability, in the survey of

Subdivisional lines of Sp. 23 N., R. 6 W.

Jean Mazarin, Moundman.

Moundman.

Subscribed and sworn to before me this 1st day of September, 1906

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



~~WE~~ I, Charles Gardner

do solemnly swear that ~~we~~ I will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given <sup>me</sup> ~~us~~, to the best of <sup>my</sup> ~~our~~ skill and ability, in the survey of

Subdivisional lines Sp 23 N., R. 6 W.

Charles Gardner, Axman.

Axman.

Subscribed and sworn to before me this 1st day of September, 1906

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



I, Jim Mahon

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

Subdivisional lines Sp. 23 N., R. 6 W.

Jim Mahon, Flagman.

Flagman.

Subscribed and sworn to before me this 1st day of September, 1906

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



Survey commenced September 13, 1906, and executed with a Queen Light Mountain transit, with Burt's Solar attachment 4607. The horizontal limb is provided with two double verniers placed opposite to each other reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

I examine the adjustments of the transit, and correct the level and collimation errors: then to test the solar apparatus by comparing its indications resulting from Solar observations made during A. M. and P. M. hours, with a true meridian determined by observations on Polaris, I proceed as follows.

At the cor. of sec. 35 and 36 on the south boundary of the township as recently established by me, in latitude  $35^{\circ} 20' N.$  longitude.  $112^{\circ} 52' 04'' W.$  at 3 h 20m. P. M. l.m.t. I set off  $35^{\circ} 20' N.$  on the lat. arc.,  $3^{\circ} 54' N.$  on the dec'l. arc. and determine a meridian with the solar, and mark a point thereof on a stone firmly set in the ground, 5 chs. N. of my station.

At 8 h. 02m P. M. l. m. t. I observe Polaris at its Eastern elongation, in accordance with the Manual of Instructions, and mark a point on the line thus determined on a plug driven in the ground 5 chs. N. of my station.

September 13, 1906.

Sept. 14, 1906!

At 7 h. 30m A. M. l. m. t. I lay off the azimuth of Polaris  $1^{\circ} 27'$  to the west and mark the meridian thus determined, by cutting a small groove in the stone set yesterday, on which the meridian falls 0.1 ins. west of the mark determined by the Solar.

At 8 h. 25m. l. m. t. A. M. I set. off  $35^{\circ} 20' N.$  on the lat. arc.  $3^{\circ} 38' N.$  on the dec'l. arc. and determine a meridian with the Solar and mark a point thereof on the stone already set 5 chs. N. of my station. This mark falls 0.2 ins. east of the meridian established by the Polaris observation.

The Solar apparatus, by A. M. and P. M. observations defines positions for the true meridian about  $7' E$  and  $13' W.$  of the meridian established by the Polaris observation. I therefore conclude that the adjustments of my instrument are satisfactory.

The magnetic bearing of the true meridian at 9 h. 0 m. A. M. l. m. t. is  $14^{\circ} 28' E.$

From the cor, to secs. 35 and 36 as recently described and established by me I run N.  $0^{\circ} 1' W.$  bet. secs. 35 and 36. Over gently rolling land.

3.00	Dry wash 15 lks. wide course West.
12.20	A. T. & S. F. R. R. brs. N. $74^{\circ} 41' W.$ & S. $74^{\circ} 41' E.$
12.87	Telegraph line brs. N. $74^{\circ} 41' W.$ and S. $74^{\circ} 41' E.$
13.13	Telegraph line brs. N. $74^{\circ} 41' W.$ & S. $74^{\circ} 41' E.$
14.10	Road brs. E. & W.
21.40	Road brs. E. & W.
21.74	Wire fence brs. E. & W.
40.00	Set a malpais stone 18x8x8 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on the W. face: dug pits 18x12x12 ins. N. & S. of cor. and raised a mound of earth 3 ft. base 1 1/2 ft. high W. of cor.
58.74	Wire fence brs. N. E. & S. W.
74.00	Stony wash 40 lks. wide brs. Westerly. Road brs. N. N. E. and S. S. W.
80.00	Set a malpais stone 18x10x8 ins. 12 ins. in the ground for the cor. to secs. 25, 36 35 & 36., marked with one notch on the S. & E. edges and raised a mound of stone 2 ft. base. 1 1/2 ft. high W. of cor. Pits impracticable. Land gently rolling and nearly level. Soil gravelly loam, stony. 2nd. 3rd. & 4th. rates. No timber.

East on a random line bet. sec. 25 & 36.

40.00 Set temporary 1/4 sec. cor.

Chains. 80.02	Intersect the East boundary of the township 3 lks. N. of the cor. to secs. 25, 30, 31 & 36 as recently established by me. Thence I run N. 89° 59' W. on a true line bet. secs. 25 & 36. Over nearly level land.
2.00	Dry wash 15 lks. wide, course S. W.
40.01	Set a malpais stone 21x8x8 ins. 16 ins. in the ground for 1/4 sec. cor. marked 1/4 on the N. face., dug pits 18x18 x12 ins. E. & W. of cor. & raised a mound of earth 3 ft. base. 2 ft. high N. of cor.
79.45	Road brs. N. & S.
80.02	The cor. of sec. 25, 26, 35 & 36. Land nearly level. Soil rich, sandy loam. stony. 1st. 2nd. and 4 fth. rates. No timber.
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	Thence I run N. 0° 1' W. bet. secs. 25 & 26. Over gently rolling land.
4.00	Road brs. N. W. & S. E.
9.00	Draw 2 chs. wide course E.
20.00	Enter level land brs. S. S. W.
25.00	Mouth of draw 2 chs. wide, course W.
30.60	Chino wash 60 lks. wide, course W thence S. westerly.
40.00	Set a malpais stone 18x8x6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on the W. face., dug pits 18 x18x12 ins. N. & S. of cor. & raised a mound of earth 3 1/2 ft. base, 1 1/2 ft. high W. of cor.
52.70	Same wash 60 lks. wide, course S. E.
60.00	Leave level land and enter gently rolling land brs. W. & E.
78.00	Enter same wash 60 lks. wide, course. S. W.
80.00	Set a malpais stone 21x10x8 ins. 16 ins. in the ground for the cor. to secs. 23, 24, 25 & 26., marked with 2 notches on the S. & 1 notch on the E. edges and raised a mound of stone 3 ft. base 1 1/2 ft. high W. of cor. Pits impracticable. Land level & gently rolling. Soil sandy loam and stony. 2nd 3rd and 4th rates. No timber.
Sept. 14, 1906.	
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Sept. 15, 1906.	
	At 7h 35 m. A. M. 1. m. t. I set off 35° 22' N. on the lat. arc. 3° 16' N. on the dec'l. arc. and determine a true meridian with the solar at the cor. of secs. 23, 24, 25 & 26.
	Thence I run S. 89° 59' E. on a random line bet. secs. 24 & 25.
40.00	Set temp. 1/4 sec. cor.
79.96	Intersect the East boundary of the township 3 lks. N. of the cor. to secs. 19, 24, 25 & 30 as recently established by me. N. 89° 58' W. on a true line bet. secs. 24 & 25. Over rolling land descending.
30.00	Enter level land brs. N. E. & S. W.
39.98	A malpais stone in place, 24x18x6 ins. above ground which I mark cross (x) at the exact cor. point for 1/4 sec. cor. and 1/4 N. of cross: raised a mound of stone 2 1/2 ft. base, 1 1/2 ft. high N. of cor. Pits impracticable.
60.00	Descend bearing N. & S.
77.50	Enter Chino wash course S. W.
79.96	The cor. of secs. 23, 24, 25 & 26. Land rolling & level. Soil gravelly loam & stony. 2nd. 3rd. & 4th. rates. Timber, a few cedar.
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	N. 0° 1' W. bet. secs. 23 & 24. Over level land in Chino wash.
1.80	Road brs. N. E. & S. W.
3.00	Leave wash and ascend over malpais rocks.
9.00	Top brs. E. N. E. & W. S. W. enter mesa.
39.00	Descend from mesa.

Chc.	
40.00	Set a malpais stone 21x6x6 ins. 16 ins. in the ground for 1/4 sec. cor. marked 1/4 on the W. and raised a mound of stone 2 ft. base, 1 1/2 ft. high W. of cor. Pits impracticable. From this cor. a reservoir brs. 30 chs. E.
52.00	Foot brs. E. & W. thence over level land.
70.00	Enter gently rolling land brs. E. & W.
80.00	A malpais stone in place 24x18x6 ins. above the ground which I mark cross (X) for the exact cor. point, and for cor. to secs. 13, 14, 23 & 24. with 3 notches on the S. & 1 notch on the E. edges. raised a mound of stones 2 ft. base, 1 1/2 ft. high W. of cor. Pits impracticable. Land level & gently rolling. Soil sandy & gravelly loam, stony 2nd. 3rd. & 4th. rates.
	At the cor. of secs. 13, 14, 23 & 24, at 11:55 A. M. 1. m. t. I set off 3° 10' N. on the dec'l. arc. and observe the sun on the meridian, & read 35° 23' N. on the lat. arc. which is within 1 minute of the proper lat. S. 89° 58' E. on a random line bet. secs. 13 & 24.
40.00	Set a temp. 1/4 sec. cor.
80.00	Intersect the East bdy. of the township 3 lks. S. of the cor. to secs. 13, 18, 19 & 24 as recently established by me. Thence I run. N. 89° 59' W. on a true line bet. secs. 13 & 24. Over gently rolling land.
15.50	Draw 2 chs. wide, course Southerly.
40.00	Set a lime stone 17x14x9 ins. 12 ins. in the ground. for 1/4 sec. cor. marked 1/4 on the N. face. from which. A cedar 6 ins. in diam. brs. N. 39 1/2° W. 320 lks. marked 1/4 S. 13. B. T. No other trees within limits. Raised a mound of stones 2 ft. base. 1 1/2 ft. high N. of cor. Pits impracticable.
53.15	Draw 2 chs. wide, course S., Road brs. S. W. & N. E.
76.00	Draw 170 lks. wide, course S. E.
80.00	The cor. to secs. 13, 14, 23 & 24. Land gently rolling. Soil gravelly loam & stony. 2nd. 3rd. & 4th rates. Timber scattering cedar.
	Sept. 16. 1906.
	At 8 h. 05m. A. M. 1. m. t. I set off 35° 23' N. on the lat. arc. 2° 52' N. on the dec'l. arc. and determine a true meridian with the solar at the cor. of secs. 13, 14, 23 & 24. N. 0° 1' W. bet. secs. 13 & 14. Ascending gradually, through scattering cedar.
3.25	Dry wash 15 lks. wide, course. E.
5.00	Draw 1.00 chs. wide, course S. E.
40.00	Set a sandstone 24x8x6 ins. 18 ins. in the ground for 1/4 sec. cor. marked 1/4 on the W. and raised a mound of stones 2 ft. base, 1 1/2 ft. high W. of cor. Pits impracticable.
42.00	Dry wash 15 lks. wide, course. S. W.
44.00	Begin steep ascent of the south slope of Red Mesa.
62.80	Top of limestone escarpment 40 ft. high. brs. E. & W.
62.94	Wire-fence brs. W. N. W. & E. S. E. 2.00 chs. thence N.E.
64.00	Enter dense oak brush brs. N. E.
76.00	Top of mesa 500 ft. above the valley brs. E. & W. descend gradually.
80.00	Set a limestone 18x10x8 ins. 12 ins. in the ground for the cor. of secs. 11, 12, 13 & 14, marked with 4 notches on the S. & 1 notch on the E. edges. from which. A juniper 24 ins. in diam. brs. N. 23° 15' E. 278 lks. dist. marked T. 23. N. R. 6. W. S. 13 B. T. No other trees within limits. Raised a mound of stones 2 ft. base. 1 1/2 ft. high W. of cor. Pits impracticable. Land gently rolling & mountainous. Soil gravelly, stony & rocky. 3rd. & 4th rates. Scattering cedar & juniper. Undergrowth oak, cedar, sage brush & cactii. Mountainous land and land cover with dense brush 36.00 chs.

Chs.	
	At the cor. of secs. 11, 12, 13 & 14 at 11 h 55m
	A. M. l. m. t. I set off 2° 47' N. on the dec'l. arc. and observe the sun on the meridian. the reading on the lat. arc. is 35° 24' N. which is within 1 minute of the proper lat.
	S. 89° 59' E. on a random line bet. secs. 12 & 13.
40.00	Set a temp. 1/4 sec. cor.
80.04	Intersect the East bdy. of the township 3 lks. N. of the cor. to secs. 7, 12, 13 & 18 as recently established by me.
	Thence I run N. 89° 58' W. on a true line bet. secs. 12 & 13.
	Over mountainous land, ascending.
14.00	Spur extending S. and descend.
28.75	Road brs. N. & S.
32.40	Chino wash 60 lks. wide, course S. W. thence S. E. begin steep ascent over sandstone terraces, through heavy cedar & juniper timber.
40.02	Falls on E. face of limestone terrace, 30 ft. high.
40.40	Falls on a limestone rock in place 4x4x1 ft. above the ground, which I mark with a cross (x) at the exact point for W. C. to 1/4 sec. cor. with 1/4 to the N. of cross and W. C. on the N. E. of cross. from which, A cedar 7 ins. in diam. brs. S. 31° 30' E. 18 lks. dist. marked 1/4. S. 13. B. T. A cedar 6 ins. in diam. brs. N. 52° 45' W. 87 lks. dist. marked 1/4 S. 13 B. T.
47.30	Top of limestone escarpment 50 ft. high, brs. N. & S.
52.40	Top of Red Mesa, 400 ft. above the wash brs. N. & S.
58.00	Leave heavy timber brs. N. & S. enter dense undergrowth.
60.27	Wire fence brs. N. E. 60 lks., thence northerly. & S. S. W. for 3.00 chs. thence S. Wly.
73.00	Gulch 30 lks. wide, brs. N.
80.04	The cor. of secs. 11, 12, 13 & 14. Land mountainous 80.04 chs. Soil gravelly, stony & rocky. 3rd. & 4th rate. Timber cedar & pinon. Under growth oak, cedar, tesotilla, tarmillo & cactii. Mountainous, heavilly timbered, covered with dense brush & extremely difficult to survey 80.04 chs.
Sept. 17, 1906.	
	At 7h. 55m. A. M. l. m. t. I set off 35° 24' N. on the lat. arc., 2° 29' N. on the dec'l. arc. and determine a true meridian with the solar at the cor. of secs. 11, 12, 13 & 14.
	N. 0° 1' W. bet. secs. 11 & 12. 0
	Over mesa, descending gradually through scattering timber. & dense brush.
37.50	Leave dense brush brs. E. & W., descend steeper.
40.00	Chino wash 160 lks. wide, course E. Set a sandstone 21x10x8 ins. 16 ins. in the ground for 1/4 sec. cor. marked 1/4 S. on the W. face. & raised a mound of stones 2 ft. base, 1 1/2 ft. high. W. of cor. Pits impracticable.
40,20	Road brs. E. & W., begin ascent over limestone terraces.
48.00	Ridge brs. E. & W. descend.
69.00	Gulch 60 lks. wide, course Easterly., ascend through heavy cedar timber.
80.00	Set a limestone 18x8x5 ins. 12 ins. in the ground for the cor. to secs. 1, 2, 11 & 12. marked with 5 notches on the S. and 1 notch on the E. faces, from which A cedar 6 ins. in diam. brs. N. 12° 30' E. 90 lks. dist. marked T. 23. N. R. 6. W. S. 1. B. T. ✓ A cedar 14 ins. in diam. brs. S. 65° E. 111 1/2 lks. dist. marked T. 23, N. R. 6. W. S. 12. B. T. ✓ A cedar 6 ins. in diam. brs. S. 51° 45' W. 178 lks. dist. marked T. 23. N. R. 6. W. S. 11. B. T. ✓ A cedar 6 ins. in diam. brs. N. 68° 30' W. 75 lks. dist. marked T. 23. N. R. 6. W. S. 2. B. T. ✓ Land mountainous & rolling. Soil gravelly, stony & roaky. 3rd. & 4th. rate. Timber cedar & pinon.



Chc.	Undergrowth cedar, oak, sage brush palo verde & cactii. Mountainous land, heavily timbered and covered with dense undergrowth 80.00 chs. This mile is extremely difficult to survey.
40.00	S. 89° 58' E. on a random line bet. secs. 1 & 12. Set a temp. 1/4 sec. cor.
80.06	Intersect the East bdy. of the township 2 lks. S. of the cor. of secs. 1, 6, 7, & 12 as recently established by me. Thence I run N. 89° 59' W. on a true line bet. secs. 1 & 12. Over mountainous land, ascending through scattering cedar.
6.00	Ridge brs. N. & S. enter heavy cedar timber., descend.
13.00	Foot brs. N. & S. enter level land.
32.00	Descent brs. N. E. & S. W.
39.00	Deep gulch 60 lks. wide, course S. W. and ascend.
40.03	Set a limestone 24x10x8 ins. 18 ins. in the ground supported by a mound of stones, marked 1/4 on the N. face., and raised a mound of stones 2 ft. base, 1 1/2 ft. high N. of cor. Pits impracticable.
53.00	Top of spur extending S. thence over rolling land.
58.00	Gulch 40 lks. wide course S. E.
80.06	The cor. of secs. 1, 2, 11 & 12. Land mountainous & rolling. Soil gravelly loam, stony & rocky. 2nd. 3rd. & 4th. rate. Timber cedar. Undergrowth cedar, oak & cactii. Mountainous land and cover with heavy timber 80.06 chs. This mile was extremely difficult to survey.
40.00	N 0° 1' W. on a random line bet. secs. 1 & 2. Set a temporary 1/4 sec. cor.
79.88	Intersect the North bdy. of the township 10 lks. W. of the cor. to secs. 1, 2, 35 & 36 as recently established by me. Thence I run S. 0° 3' W. on a true line bet. secs. 1 & 2. Over high mesa.
39.88	Set a malpais stone 18x8x6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on the W. face, and raised a mound of stones 2 ft. base. 1 1/2 ft. high W. of cor. Pits impracticable.
61.00	Begin descent from mesa, through heavy cedar timber.
79.88	The cor. of secs. 1, 2, 11 & 12. Land nearly level & rolling. Soil gravelly loam & stony. 3rd. 3rd. & 4th. rates. Timber cedar. Undergrowth cedar, oak, palo verde & cactii. Heavily timbered land 18.88 chs.
11.05	Thence I return to the cor. of secs. 34 & 35 on the south bdy. as recently set by me and run. N. 0° 1' W. on a true line bet. secs. 34 & 35. Over gently rolling land. Road brs. E. & W. Thence over nearly level land.
19.30	Road brs. N. W. & S. E.
29.80	Telegraph line brs. N. 78° 30' W. & S. 78° 30' E.
30.45	R. R. brs. N. 78° 30' W. & S. 78° 30' E.
31.11	Telegraph line brs. N. 78° 30' W. & S. 78° 30' E.
40.00	Set a calcareous stone 18x10x5 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on the W. face and raised a mound of stones 2 ft. base, 1 1/2 ft. high W. of cor. Pits impracticable.
80.00	Set a malpais stone 21x7x6 ins. 16 ins. in the ground for the cor. to secs. 26, 27, 34 & 35. marked with one notch on the S. & two notches on the E. edges. and raised a mound of stones 2 ft. base 1 1/2 ft. high W. of cor. Land level & gently rolling. Soil gravelly loam. stony. 2nd. 3rd. & 4th rates. No timber.
	Sept. 18, 1906.
	At 8 h. Om A. M. 1. m. t. I set off 2° 6' N. on the dec'l arc. 35° 21' N. on the lat. arc. and determine a true meridian with the solar at the cor. of secs. 26, 27, 34 & 35.

Chains.	East on a random line bet. secs. 26 & 35.
40.00	Set a temporary 1/4 sec. cor.
80.02	In tersect the N. & S. line 7 lks. N. of the cor. of secs. 25, 26, 35 & 36. recently established by me. Thence I run N. 89° 57' W. on a true line bet. secs. 26 & 35.
	Over gently rolling land.
19.90	Road brs. S. E. & N. W.
25.00	Chino wash 60 lks. wide, course S. E. same road brs. N. E. & S. W.
27.00	Same road brs. S. E. & N. W.
32.00	Well brs. 9 chs. N.
35.00	Frame cabin brs. 11 chs. N.
40.01	Set a malpais stone 18x10x8 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on the N. face, and raised a mound of stones 2 ft. base, 1 1/2 ft. high N. of cor. Pits impracticable.
54.00	Draw 2 chs. wide course S. E.
68.00	Enter level land brs. N. & S.
80.02	The cor. to secs. 26, 27, 34, & 35. Land level & gently rolling. Soil loam, stony. 2nd. 3rd. & 4th rates. No timber.
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	N. 0° 1' W. on a true line bet. secs. 26 & 27.
	Over level land.
5.20	Old road brs. E. & W.
19.00	Enter scattering cedar timber brs. N. W. & S. E.
31.00	Leave scattering cedar timber brs. N. W. & S. E.
36.00	Draw 2 chs. wide, course S. E.
40.00	Set a malpais stone 21x8x8 ins. 16 ins. in the ground for 1/4 sec. cor. marked 1/4 on the W. face, dug pits 18x18x12 ins. N. & S. of cor. and raised a mound of earth 2 1/2 ft. base, 2. ft. high W. of cor.
80.00	Set a malpais stone 24x7x6 ins. 18 ins. in the ground for cor. to secs. 22, 23, 26, & 27, marked with 2 notches on the S. & E. edges. Dig pits in each secs. 5 1/2 ft. dist. (18x18x12 ins. ) and raised a mound of earth 4 ft. base, 2 ft. high W. of cor. Land level. Soil sandy loam. 2nd. & 3rd. rates. Timber scattering cedar.
	At this cor. at 11h54 m A. M. l. m. t. I. set off 2° 01' N. on the dec'l. arc. and observe the sun on the meridian. The resulting lat. is 35° 22' N. or within 1 minute of the proper lat.
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80.00	S. 89° 57' E. on a random line bet. secs. 23 & 26. Intersect the N. & S. line 3 lks. N. of the cor. to secs. 23, 24, 25 & 26. as recently established by me. Thence I run N. 89° 56' W. on a true line bet. secs. 23 & 26.
	Over level land in Chino wash.
2.50	Road brs. N. N. E. & S. S. W.
7.00	Leave wash and ascend over malpais rocks.
12.70	Top brs. N. E. & S. W. thence descend gradually.
26.00	Draw 1 chs. wide, course Southerly. enter level land.
40.00	Set a malpais stone 18x9x5 ins. 12 ins. in the ground, for. 1/4 sec. cor. marked 1/4 on the N. face, and raised a mound of earth 3 1/2 ft. base, 1 1/2 ft. high N. of cor. Dig pits 18x18x12 ins. E. & W. of cor.
80.00	The cor. of secs. 22, 23, 26 & 27. Land level & gently rolling. Soil sandy loam & stony. 2nd. 3rd. & 4th rates. No timber.
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	Sept. 19.
	At 7 h. 35' A. M. l. m. t. I set off 35° 22' N. on the lat. arc. 1° 43' N on the dec'l. arc. and determine a true meridian with the solar at the cor. to secs. 22,

Chains.	23, 26 & 27.
40.00	N. 0° 1' W. on a true line bet. secs. 22 & 23. Over level land. Set a <del>malpass</del> stone 18x10x5 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on the W. face. dug pits 18x18x12 ins. N. & S. of cor. and raised a mound of earth 3 1/2 ft. base. 1 1/2 ft. high W. of cor.
45.00	Ascend gradually.
66.70	Dry wash 30 lks. wide, course S. E.
73.00	Enter same wash brs. S. S. W. begin steep ascent of the South slope of Red Mesa.
77.20	Leave wash, course, S.
80.00	Set a limestone 18x8x6 ins. 12 ins. in the ground for the cor. of secs. 14, 15, 22 & 23, marked with 3 notches on the S. & 2 notches on the E. edges., and raised a mound of stones 3 ft. base, 1 1/2 ft. high. W. of cor. Pits impracticable. Land level, gently rolling & mountainous. Soil sandy loam, gravelly & stony. 2nd. 3rd. & 4th. rates No timber. Mountainous land 7.00 chs. exceptionally difficult to survey.
40.00	S. 89° 56' E. on a random line bet. secs. 14 & 23. Set a temp. 1/4 sec. cor.
79.94	Intersect the N. & S. line 2 lks. S. of the cor. to secs. 13, 14, 23 & 24 recently established by me. Thence I run N. 89° 57' W. on a true line bet. secs. 14 & 23. Ascending. Enter dense tesotillo brush brs. N. & S. Top of spur extends S. descend gradually. Dry wash 30 lks. wide, course S. & ascend. Top of spur extends South & descend. Set a sandstone 18x8x6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on the N. face, and raised a mound of stones 2 1/2 ft. base, 1 1/2 ft. high N. of cor. Pits impracticable.
12.00	Dry wash 30 lks. wide, course Southerly., leave dense brush & ascend.
18.00	Spur extends S. and descend.
30.00	Dry wash 60 lks. wide, course S. ascend.
37.00	Spur extends S. and descend.
39.97	Dry wash 25 lks. wide, course. S. W. and ascend. The cor. to secs. 14, 15, 22 & 23. Land mountainous. Soil gravelly and stony. 3rd. & 4th rates. Timber, a few cedar., Undergrowth, tesotillo, palmillo & cactii. Mountainous land covered with dense brush 79.94 chs! This mile is exceptionally difficult to survey.
50.00	
59.60	
65.00	
72.00	
78.80	
79.94	
3.00	Sept. 20, 1906. At 8 h. O. m. A. M. 1. m. t. I set off 35° 23' N. on the lat. arc. 1° 20' N. on the dec'l. arc. and determine a true meridian with the solar at the cor. of secs. 14, 15, 22 & 23. N. 0° 1' W. on a true line bet. secs. 14 & 15. Over mountainous land, ascending steep.
16.00	Enter heavy cedar timber brs. E. & W. Top of Red Mesa brs. E. & W. & enter dense cedar & Oak under brush.
40.00	Mark a cross (x) on a limestone in place 18x18x4 ins. above the ground for 1/4 sec. cor. with 1/4 W. of cross. from which, A cedar 9 ins. in diam. brs. N. 45° E. 35 lks. dist. marked 1/4. S. 14 B. T. A cedar 16 ins. in diam. brs. S. 49° 15' W. 44 lks. dist. marked 1/4 S. 15 B. T. and raised a mound of stones 2 1/2 ft. base. 1 1/2 ft. high W. of cor.
57.00	Gulch 40 lks. wide, course N. E. ascend.

Chains.  
60.00  
80.00

Leave heavy timber brs. N. E. & S. W.  
Set a sandstone 18x18x6 ins. 12 ins. in the ground for the cor. to secs. 10, 11, 14 & 15, marked with 4 notches on the S. & 2 notches on the E. edges, from which,  
A juniper 18 ins. in diam. brs. S. 48° 45' W. 99 lks. dist. marked T. 23. N. R. 6. W. S. 15. B. T. ✓  
A juniper 20 ins. in diam. brs. S. 70° E. 202 lks. dist. marked T. 23. N. R. 6. W. S. 14 B. T. ✓  
No other trees within limits.  
Raised amount of stone 2 1/2 ft. base, 1 1/2 ft. high W. of cor.  
Land rolling mesa & mountainous.  
Soil gravelly, stony & rocky. 3rd. & 4th rates.  
Timber cedar & pinon.  
Undergrowth, cedar, oak, mescal. sage brush, palo verde & cactii.  
Mountainous land, heavilly timbered and covered with dense brush. 80.00 chs.  
This mile was extremely difficult to survey.

40.00  
80.00

S 89° 57' E. on a random line bet. secs. 11 & 14.  
Set a temp. 1/4 sec. cor.  
Intersect the N. & S. line 4 lks. S. of the cor. to secs 11, 12, 13 & 14 recently set by me.  
Thence I run N. 89° 59' W. on a true line bet. secs. 11 & 14.  
Along top of mesa through scattering timber & dense undergrowth.

18.50  
40.00

Begin descent brs. N. & S.  
Set a limestone 18x10x6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on the N. face. from which,  
A cedar 6 ins. in diam. brs. S. 79° E. 53 lks. dist. marked 1/4 S. 14. B. T. ✓  
A cedar 10 ins. in diam. brs. N. 4° 15' E. 141 lks. dist. marked 1/4 S. 11. B. T. ✓

51.30  
56.50

Gulch 30 lks. wide, course. N. W.  
Gulch 40 lks. wide, course N. and ascend.  
Wire fence brs. N.W&. S.E.

68.50  
69.50  
80.00

Top brs. N. & S.  
Descend gradually.  
The cor. to secs. 10, 11, 14 & 15.  
Land rolling.  
Soil gravelly, stony & rocky. 3rd. & 4th rates.  
Timber scattering cedar & juniper.  
Undergrowth cedar, oak & cactii.  
Covered with dense brush 80.00 chs.  
This mile was extremely difficult to survey.

17.50

N. 0° 1' W. on a true line bet. secs. 10 & 11.  
Over rolling land, descending thro. scattering timber & dense brush.

23.50

Gulch 60 lks. wide, course. N. E. and ascend.  
Top brs. N. E. & S. W. thence over gently rolling land, thro. dense cedar undergrowth, descending.

40.00

Set a limestone 18x8x5 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on the W. face. from which,  
A juniper 20 ins. in diam. brs. S. 53° 30' E. 214 lks. dist. marked 1/4 S. 11 B. T. ✓  
No other trees within limits.  
Raised a mound of stones 2 1/2 ft. base, 1 1/2 ft. high W. of cor. Pits impracticable. descend.

65.00  
80.00

Gulch 60 lks. wide, course. E. thnce S. E.  
Set a limestone 18x8x8 ins. 12 ins. in the ground for the cor. to secs. 2, 3, 10 & 11, marked with 5 notches on the S. & 2 notches on the E. edges, from which,  
A cedar 6 ins. in diam brs. N. 67° 45' E. 194 lks. dist. marked T. 23. N. R. 6. W. S. 2. B. T. ✓  
A cedar 6 ins. in diam. brs. S. 39° E. 191 lks. dist. marked T. 23. N. R. 6. W. S. 11. B. T. ✓  
A cedar 6 ins. in diam. brs. S. 77° 30' W. 195 lks. dist. marked. T. 23. N. R. 6. W. S. 10 B. T. ✓  
A cedar 6 ins. in diam. brs. N. 44° 30' W. 78 lks. dist. marked. T. 23. N. R. 6. E. S. 3. B. T. ✓

## Chains.

Sept. 21, 1906.

At. 7h. 55m. A. M. 1. m. t. I set off  $35^{\circ} 24'$  N. on the lat. arc.  $0^{\circ} 56'$  W. on the dec'l. arc. and determine a true meridian with the solar at the cor. of secs. 2, 3, 10 & 11.

Land rolling.

Soil gravelly stony & rocky. 3rd. & 4th rates.

Timber scattering cedar & juniper.

Undergrowth cedar, oak, sage brush & cactii.

Land covered with dense undergrowth 80.00 chs.

This mile was exceptionally difficult to survey.

S  $89^{\circ} 59'$  E. on a random line bet. secs. 2 & 11.

40.00 Set a temp.  $1/4$  sec. cor.

79.96 Intersect the N. & S. line 3 lks. S. of the cor. to secs. 1, 2, 11 & 12 recently set by me.

Thence I run West on a true line bet. secs. 2 & 11.

Over rolling land, heavy cedar timber & dense cedar undergrowth, descending.

16.40 Gulch 40 lks. wide, course S. E.

39.98 Set a limestone  $18 \times 7 \times 6$  ins. 12 ins. in the ground for  $1/4$  sec. cor. marked  $1/4$  on N. face. from which,

A cedar 6 ins. in diam. brs. S.  $67^{\circ}$  W. 138 lks. dist. marked  $1/4$  S. 11 B. T.

A cedar 7 ins. in diam. brs. N.  $79^{\circ}$  W. 155 lks. dist. marked  $1/4$  S. 2. B. T.

49.00 Same gulch 40 lks. wide, course N. E.

59.00 Same gulch 40 lks. wide, course S. E.

70.00 Leave heavy timber brs. N. & S.

79.96 The cor. to secs. 2, 3, 10 & 11.

Land rolling.

Soil gravelly & stony. 3rd & 4th rates.

Timber cedar & pinon.

Undergrowth cedar, oak, sage brush, palo verde & cactii.

Land heavilly timber & covered with dense undergrowth 79.96 chs.

This mile was exceptionally difficult to survey.

N.  $0^{\circ} 1'$  W. on a random line bet. secs. 2 & 3.

40.00 Set a temp.  $1/4$  sec. cor.

79.90 Intersect the north bdy. of the townsh ip 4 lks. W. of the cor. to secs. 2, 3, 34 & 35 recently set by me.

Thence I run S.  $0^{\circ} 1'$  W. on a true line bet. secs. 2 & 3. Descending over rolling land.

Enter heavy cedar timber brs. E. & W.

3.00 Draw 160 lks. wide, course S. E. thence over rolling land.

24.00 Set a limestone  $21 \times 10 \times 8$  ins. 16 ins. in the ground for.

39.90  $1/4$  sec. cor. marked  $1/4$  on W. face, from which, A cedar 6 ins. in diam. brs. S.  $82^{\circ} 30'$  E. 50 lks. dist. marked  $1/4$ . S. 2. B. T.

A pinon 12 ins. in diam. brs. N.  $13^{\circ} 30'$  W. 46 lks. dist. marked  $1/4$  S. 3. B. T.

60.00 High knoll 9 chs. W.

65.50 Draw 1 chs. wide course S. E.

79.90 The cor. to secs. 2, 3, 10 & 11.

Land rolling.

Soil sandy & gravelly loam, stony. 2nd. 3rd & 4th rates.

Timber cedar & pinon.

Undergrowth cedar, oak, palo verde, sage brush & cactii.

Land heavilly timbered & covered with dense undergrowth 76.90 chs.

This mile was difficult to survey.

120

Chains.

10.00

13.75

40.00

44.75

45.53

46.33

46.82

80.00

40.00

79.90

38.00

39.95

79.90

34.00

40.00

60.00

64.00

80.00

N. 0° 2' W. on a true line bet. secs. 33 & 34.  
 Over gently rolling land.  
 Draw 80 lks. wide, course S. W.  
 Road brs. E. & W.  
 Set a limestone 18x10x6 ins. 12 ins. in the ground for the 1/4 sec. cor. marked 1/4 on the W face. from which,  
 A cedar 7 ins. in diam. brs. N. 22° 30' E. 320 lks. dist. marked 1/4 S. 34 B. T.  
 A cedar 18 ins. in diam. brs. N. 48° 30' W. 217 lks. dist. marked 1/4 S. 33 B. T.  
 Road brs. N. 78° 50' W. & S. 78° 50' E.  
 Telegraph line brs. N. 78° 50' W. & S. 78° 50' E.  
 R. R. brs. N. 78° 50' W & S. 78° 50' E.  
 Telegraph line brs. N. 78° 50' W. & S. 78° 50' E.  
 Enter level land.  
 Set a limestone 21x10x8 ins. 16 ins. in the ground for the cor. to secs. 27, 28, 33 & 34, marked with 1 notch on the S. & 3 notches on the E. edges. from which,  
 A cedar 6 ins. in diam. brs. S. 35° 30' W. 257 lks. dist. marked T. 23. N. R. 6. W. S. 33. B. T.  
 No other marked trees within limits.  
 Did three pits 18x18x12 ins. in secs. 34, 27, & 28. 5 1/2 ft. dist. and raised a mound of earth 4 ft. base. 2 ft. high W. of cor.  
 Land gently rolling & level.  
 Soil sandy & gravelly loam. 2nd. 3rd. & 4th. rates.  
 Timber scattering cedar.

Sept. 22.

At 8 h. 5m A. M. 1. m. t. I set. off 35° 21' N. on the lat. arc., 0° 32' N. on the dec'l. arc. and determine a true meridian with the solar. at the cor. to secs. 27, 28 33 & 34.

East on a random line bet. secs. 27 & 34.

Set a temp. 1/4 sec. cor.

Intersect the N. & S. line 9 lks. N. of the cor. to secs. 26, 27, 34 & 35 recently set by me.

Thence I run N. 89° 56' W. on a true line bet. secs. 27 & 34.

Over level land.

Old road brs. N. & S.  
 Set a sandstone 21x10x5 ins. 16 ins. in the ground for 1/4 sec. cor. marked 1/4 on the N. face. dig pits 18x18x12 ins. E. & W. of cor. and raised a mound of earth 3 ft. base, 2 ft. high N. of cor.

The cor. to secs. 27, 28 33 & 34.

Land level.

Soil sandy loam. 2nd. & 3rd. rate.

No timber.

N 0° 2' W. on a true line bet. secs. 27 & 28.

Over level land.

Enter scattering cedar timber brs. N. W. & S. E.

Set a limestone 24x12x5 ins. 18 ins. in the ground for 1/4 sec. cor. marked 1/4 on the W. face. from which.

A cedar 12 ins. in diam. brs. S. 83° E. 134 lks. dist. marked 1/4 S. 27 B. T.

No other trees within limits.

Raised a mound of stones 3 ft. base. 2. ft. high. W. of cor. Pits impracticable.

Enter gently rolling land.

Leave scattering timber brs. N. W. & S. E.

Draw 1 chs. wide, course S. E.

Set a limestone 18x14x12 ins. 12 ins. in the ground for the cor. to secs. 21, 22, 27 & 28, marked with 2 notches on the S. & 3 notches on the E. edges.  
 from which,

A juniper 14 ins. in diam brs. S. 82° 15' E. 115 lks.

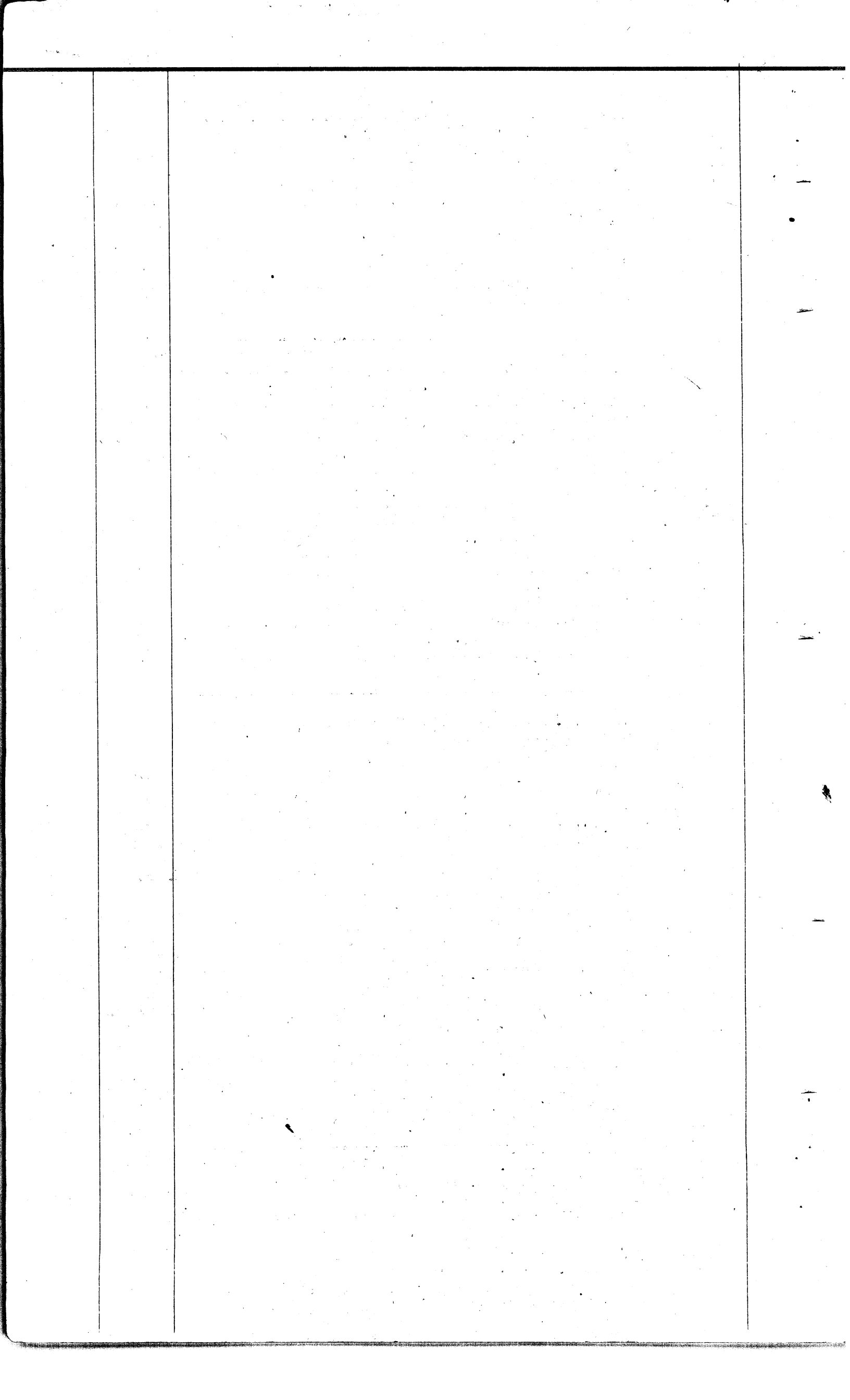
Chains.

dist. marked T. 23. N. R. 6. W. S. 27 B. T. ✓  
 No other trees within limits.  
 Raised a mound of stones 2 1/2 ft. base, 1 1/2 ft. high  
 W. of cor. Pits impracticable.  
 Land level & gently rolling.  
 Soil loam, gravelly & stony. 2nd. 3rd. & 4th. rates.  
 Timber scattering cedar.

At this cor. at 11 h 53 m A. M. 1. m. t. I set off 0° 28' N.  
 on the dec'l. arc. and observe the sun on the meridian.  
 the resulting lat. is 35° 22' N. or within 1 minute of  
 the proper lat.

40.00 S. 89° 56' E. on a random line bet. secs. 22 & 27.  
 80.00 Set a temp. 1/4 sec. cor.  
 Intersect the N. & S. line 5 lks. S. of the cor. to  
 secs. 22, 23, 26 & 27 recently established by me.  
 Thence I run N. 89° 58' W. on a true line bet. secs. 22  
 & 27.  
 20.00 Over level land.  
 32.00 Draw 1 chs. wide, course S.  
 40.00 Old road brs. N. E. & S. W.  
 Set a malpais stone 18x12x5 ins. 12 ins. in the ground  
 for 1/4 sec. cor. marked 1/4 on the N. face, dug pits  
 18x18x12 ins E. & W. of cor. & raised a mound of earth  
 3 ft. base 2 ft. high N. of cor.  
 50.00 Draw 1 chs. wide, course S. E.  
 67'00 Draw 60 lks. wide, course S. E.  
 80.00 The cor. to secs. 21, 22, 27 & 28.  
 Land nearly level.  
 Soil sandy loam. 2nd. & 3rd. rate.  
 No timber.

N. 0° 2' W. on a true line bet. secs. 21 & 22.  
 Over gently rolling land.  
 8.00 Draw 1 chs. wide, course S. E.  
 33.00 Draw 60 lks. wide, course S. E. begin ascent of South  
 slope of Red Mesa.  
 40.00 Set a sandstone 18x10x8 ins. 12 ins. in the ground for  
 1/4 sec. cor. marked 1/4 on the W. face. and raised a  
 mound of stone 3 ft. base. 2 ft. high W. of cor.  
 Pits impracticable. ascend steeper.  
 67.30 Spur 350 ft. above the 1/4 sec. cor. extends S. E.  
 and descend.  
 73.50 Dry wash 30 lks. wide, course E., thence S. E. ascend  
 thro. cedar timber.  
 80.00 Set a sandstone 18x10x10 ins. 12 ins. in the ground for  
 the cor. to secs. 15, 16, 21 & 22, marked with 3 notches  
 on the S. and 3 notches on the E. edges. with 23 N. on the  
 N. E. and 6 W. on the S. E. faces. raised a mound of  
 stones 2 1/2 ft base, 1 1/2 ft. high W. of cor. Pits.  
 impracticable.  
 Land mountainous & gently rolling.  
 Soil gravelly, stony & rocky. 3rd. & 4th rates.  
 Timber cedar & juniper. undergrowth oak, tesotillo,  
 palmilla & cactii.  
 Mountainous land 47.00 chs.  
 This mile was rather difficult to survey.





Chs.	Sept. 23- At the cor. to secs. 15, 16, 21 and 22, at 7 hs. 35' a. m., 1. m. t., I set off 0° 10' N., on the decl. arc; 35° 23' N., on the Lat. arc; and determine a meridian with the Solar; thence I run, S. 89° 58' E., on a random line, bet. secs. 15 and 22.
40.00	Set temp. 1/4 sec. cor.
79.94	Intersect the N. and S. line at the cor. to secs. 14, 15, 22 and 23, thence I run, N. 89° 58' W., on a true line, bet. secs. 15 and 22. Over mts. land descending.
7.00	Dry wash, 20 lks. wide, course S. E. ascend.
16.00	Spur extends S. and descend.
28.05	Dry wash, 20 lks. wide, course southerly. Enter scattering cedar timber and ascend.
39.97	Set a sandstone, 18 x 8 x 8 ins., 12 ins., in the ground for 1/4 sec. cor. marked 1/4 on the N. face; and raise a md. of stones, 2 ft. base, 1 1/2 ft. high, N. of the cor. Pits impracticable.
52.00	Spur extends to the S. and descend steep.
60.00	Dry wash, 10 lks. wide, course S. Thence along S. slope. of red mesa.
74.00	Ascend.
79.94	The corner of secs. 15, 16, 21 and 22. Land mountainous. Soil gravelly stony and rocky; 3rd and 4th rate. Scattering cedar timber. Undergrowth oak, palmillo and cactus. Mts. land 79.94 chs.
-----	
	N. 0° 02' W., bet. secs. 15 and 16. Ascending steep through cedar and juniper timber.
17.00	Top of red mesa bears E. and W. Thence Over gently rolling land through heavy and dense cedar timber and oak underbrush.
40.00	A limestone in place, 24 x 14 x 10 ins., above ground, marked 1/4 on the W. face, and cross (x) at exact cor. point. A Juniper, 12 ins., in diam. bears S. 62 1/2° E., 130 lks. dist. marked 1/4 S. 15 B. T. A Juniper, 9 ins., in diam. bears S. 25 3/4° W., 21 lks. dist. mkd. 1/4 S. 16 B. T. and raise a md. of stones, 2 ft. base, 1 1/2 ft. high, W. of the corner.
43.00	Gulch 30 lks. wide, course E. N. E.
73.00	Leave heavy timber bearing to the N. E.
80.00	Set a limestone, 21 x 8 x 6 ins., 16 ins., in the ground for the corner to sections 9, 10, 15 and 16, whence, A Juniper, 36 ins., in diam. bears N. 19° E., 218 lks. dist. marked T 23 N., R. 6 W., S. 10 B. T. A Cedar, 5 ins., in diam. bears N. 42° W., 60 lks. dist. marked T. 23 N., R. 6 W., S. 9 B. T. Raised a mound of stones, 2 ft. base, 1 1/2 ft. high, W. of the corner. Pits impracticable. Mountainous and rolling land. Soil cedar and guniper. Undergrowth cedar, oak mescal and spanish bayonet. Mts. or land covered with heavy timber or dense brush, 80.00 chains.
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	S. 89° 58' E., on a random line, bet. secs. 10 and 15.
40.	Set temp. 1/4 sec. cor.
80.08	Intersect the N. and S. line, 10 lks. S. of the cor. to secs. 10, 11, 14 and 15, thence I run, S. 89° 58' W., on a true line, bet. secs. 10 and 15. Over rolling land through scattering timber and dense brush, descending.
14.00	Gulch 70 lks. wide, course Northeasterly.
40.04	A limestone in place, 18 x 10 x 8 ins., above ground, marked 1/4 on the N. face, and cross (x) at exact cor. point. A Juniper, 24 ins., in diam. bears N. 19° E., 138 lks. dist. mkd. 1/4 S. 10 B. T. A Juniper, 36 ins., in diam. bears S. 32 1/2° W., 121 lks. dist. marked 1/4 S. 15 B. T. Raised a mound of stones, 2 ft. base, 1 1/2 ft. high, N. of the cor.

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Chs. 80.08	<p>The corner to sections, 9, 10, 15 and 16. Land rolling. Soil gravelly stony and rocky; 3rd and 4th rate. Cedar and juniper timber. Undergrowth cedar, oak and mescal. Dense undergrowth 80.08 chains, and very difficult to survey. Sept. 23.</p>
14.70 23.60 25.30 30.00 40.00	<p>Sept. 24- At 7 hs. 25 mins. a. m., 1. m. t., I set off 0° 14' S., on the Decl. arc; 35° 24' N., on the lat. arc and determine a meridian with the Solar; thence I run, N. 0° 2' W., bet. secs. 9 and 10. Over rolling land through scattering timber and dense brush. Gulch 60 lks. wide, course N. E. Gulch 60 lks. wide, course northeasterly. Gulch 60 lks. wide, course E. Enter heavy timber. Set a limestone, 24 x 8 x 5 ins., 18 ins., in them ground for 1/4 sec. cor. marked 1/4 on the W. face; whence A Cedar, 18 ins., in diam. bears S. 65 1/2° E., 14 lks. dist. mkd. 1/4 S. 10 B. T. ✓ A Cedar, 7 ins., in diam. bears N. 65° W., 15 lks. dist. marked 1/4 S. 9 B. T. ✓</p>
47.70 80.00	<p>Gulch 40 lks. wide, course easterly. Set a limestone, 21 x 8 x 8 ins., 16 ins., in the ground for the corner to sections 3, 4, 9 and 10, marked with 5 grooves on the S. and 3 grooves on the E. edges, whence, A Cedar, 6 ins., in diam. bears N. 44° E., 116 lks. dist. marked T. 23 N., R. 6 W. S. 3 B. T. ✓ A Cedar, 18 ins., in diam. bears S. 33 3/4° E., 197 lks. dist. marked T. 23 N., R. 6 W., S. 10 B. T. ✓ A Cedar, 5 ins., in diam. bears S. 18 1/4° W., 177 lks. dist. marked T. 23 N., R. 6 W., S. 9 B. T. ✓ A Cedar, 5 ins., in diam. bears N. 42 1/4° W., 65 lks. dist. marked T. 23 N., R. 6 W., S. 4 B. T. ✓ Land rolling. Soil gravelly stony and rocky 3rd and 4th rate. Timber cedar and pinon. Undergrowth cedar, oak spanish bayonet and cactus. Heavy timber and dense brush 80.00 chs. Very difficult to survey.</p>
40. 79.98	<p>At 12 O'Clock noon at this cor. I set off 0° 19' S on the decl. arc and observe the Sun on the Mer. the result- ing latitude is 35° 24' N. The calculated Lat. for this station.</p>
26.00 39.99	<p>N. 89° 58' E., on a random line, bet. secs. 3 and 10. Set temp. 1/4 sec. cor. Intersect the N. and S. line at a pt. 2 lks. N. of the corner to secs. 2, 3, 10 and 11; thence I run, S. 89° 59' W., on a true line, bet. secs. 3 and 10. Over rolling land through heavy cedar timber through dense brush. Gulch 60 lks. wide, course southeast. Limestone, 21 x 8 x 5 ins., in a mound of stones, (impract. to set in ground on account of bedrock,) stone marked 1/4 on the N. face; whence, A Cedar, 5 ins., in diam. bears S. 62 1/2° E., 71 lks. dist. marked 1/4 S. 15 B. T. ✓ A Cedar, 8 ins., in diam. bears N. 72 3/4° W., 34 lks. dist. marked 1/4 S. 3 B. T. ✓</p>
79.98	<p>The corner to secs. 3, 4, 9 and 10. Land rolling. Soil gravelly stony and rocky; 3rd and 4th rate. Cedar and juniper timber. Undergrowth cedar, oak, spanish bayonett and cactus. Heavy and dense timber 79.98 chs. ExDifficult to survey.</p>
40. 79.90	<p>N. 0° 2' W., on a random line, bet. secs. 3 and 4. Set temp. 1/4 sec. cor. Int. the N. bdy. of the Tp. 3 lks. E. of the cor. of secs. 32 and 33; thence I run, S. 0° 3' E. on true line bet. 3 &amp; 4.</p>

Chs.	Over rolling land through scattering cedar timber.
17.60	Draw 60 lks. wide, course northeasterly.
20.00	Enter heavy cedar timber course N. E.
35.10	Head of Draw course N. E.
39.90	Set a sandstone, 18 x 8 x 8 ins., 12 ins., in the ground for 1/4 sec. cor. marked 1/4 on the W. face; whence, A Cedar, 5 ins., in diam. bears S. 35° E., 5 lks. dist. marked 1/4 S. 3 B. T. ✓ A Cedar, 5 ins., in diam. bears S. 45° W., 57 lks. dist. marked 1/4 S. 4 B. T. ✓ and descend.
53.00	Enter gently rolling land bears E. and W.
60.00	Gulch 30 lks. wide, course E. thence southeasterly.
79.90	The corner to secs. 3, 4, 9 and 10. Land rolling. Soil gravelly and stony; 3rd and 4th rate. Cedar and pinon timber. Undergrowth cedar oak, spanish bayonet and cactus. Heavy timber 59.90 chs.
	Sept. 24,
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	Sept. 25- At the cor. to secs. 32 and 33 on the S. bdy. of the Tp. at 8 hs. 3 mins. a. m., 1. m. t., I set off 35° 20' N., on the Lat. Arc; 0° 38' S., on the Decl. Arc; and determine with the Solar a meridian; thence I run, N. 0° 3' W., bet. secs. 32 and 33.
19.90	Over gently rolling land through heavy cedar timber. Leave heavy timber to the N. W.
40.00	Set a malpais stone, 21 x 7 x 6 ins., 16 ins., in the ground for 1/4 sec. cor. marked 1/4 on the W. face, whence, A Cedar, 6 ins., in diam. bears N. 29° E., 161 lks. dist. mak 1/4 S. 33 B. T. ✓ A Cedar, 5 ins., in diam. bears N. 82 1/2° W., 162 lks. dist. marked 1/4 S. 32 B. T. ✓
57.80	Wagon road bears E. and W.
60.65	Road bears N 78° 50' W.
61.36	Telegraph line N. 78° 50' W. and S. 78° 50' E.
62.05	Middle of Single track of the A. T. & S. F. R. R. bears N. 78° 50' W., and S. 78° 50' E.
62.25	Chino Siding bears N. 78° 50' W.
62.70	Telegraph line, N. 78° 50' W., and S. 78° 50' E.
67.30	Road bears East and West.
80.00	Set a limestone, 21 x 8 x 8 ins., 16 ins., in the ground for the corner to sections 28, 29, 32 and 33, marked with 1 groove on the S. and 4 grooves on the E. edges, A Cedar, 9 ins., in diam. bears S. 63° E., 446 lks. dist. marked T. 23 N., R. 6 W., S. 33 B. T. ✓ A Cedar, 7 ins., in diam. bears N. 31° W., 477 lks. dist. marked T. 23 N., R. 7 W., S. 29 B. T. ✓ Dug pits in secs. 28 and 32, 18 x 18 x 12 ins., 5 1/2 ft. dist. and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, W. of the corner. No other trees within limits. Land gently rolling. Soil Sandy and gravelly loam; 2nd and 3rd rate. Timber cedar and pinon. Heavy timber 20.00 chs.
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	EAST, on a random line bet. secs. 28 and 33.
40.	Set temp. 1/4 sec. cor.
80.03	Int. the N. and S. line, 7 lks. N. of the cor. to secs. 27, 28, 33 and 34, thence I run, N. 89° 57' W., on a true line bet. secs. 28 and 33.
	Over gently rolling land through scattering timber.
21.00	Draw 2.00 chs. wide, corse to the S. E.
40.00	Set a limestone, 18 x 10 x 5 ins., 12 ins., in the ground for 1/4 sec. cor. marked 1/4 on the N. face; and raise a mound of stones, 2 ft. base, 1 1/2 ft. high, N. of the cor. Pits impract.
80.03	The corner to secs. 28, 29, 32 and 33. Land nearly level and gently rolling.

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BOOK 1916

Soil gravelly and sandy loam; 2nd & 3rd rate.  
 Timber scattering cedar and pinon.

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WEST, on a random line, bet. secs. 29 and 32.  
 40. Set temp. 1/4 sec. cor.  
 72.15 Int. the W. Bdy. of the Tp. 4 lks. S. of the cor. to secs. 25, 29, 32 and 36.  
 Thence I run, S. 89° 58' E., on a true line, bet. secs. 29 and 32.  
 Over nearly level land through scattering cedar timber.  
 6.40 Wire fence bears N. 60° W.  
 7.80 Telegraph line bears N. 60° W., and S. 60° E.  
 8.40 Single track of the S. F. R. R. bears N. 60° W., and S. 60° E.  
 10.63 Telegraph line bears N. 60° W.  
 12.00 Begin steep ascent over sandstone rocks.  
 21.00 Top of spur of red mesa extends S. and descend.  
 28.00 Foot N. and S. thence over gently rolling land through heavy cedar timber.  
 32.15 Sandstone, 18 x 8 x 5 ins., 12 ins., in the ground for 1/4 sec. cor. marked 1/4 on the N. face; whence,  
 A Cedar, 6 ins., in diam. bears N. 17° E., 165 lks. dist. marked 1/4 S. 29 B. T.  
 A pinon, 7 ins., in diam. bears S. 71 1/4° W., 51 lks. dist. mkd. 1/4 S. 32 B. T.  
 49.05 Leave heavy timber N. and S.  
 72.15 Corner to sections, 28, 29, 32 and 33.  
 Land gently rolling. Mts. and nearly level.  
 Cedar and pinon timber.  
 Undergrowth cedar.  
 Mountainous or heavily timbered land 37.00 chs.

Sept. 25.

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Sept. 26- At 7 hours, 35 mins., a. m., 1. m. t., I set off 1° 0' S., on the Decl. arc; 35° 21' N. on the Lat. arc and determine a meridian with the Solar; thence I run,  
 N. 0° 3' W., bet. secs. 28 and 29.  
 Over nearly level land.  
 18.70 Old road bears E. and W.  
 32.06 Enter gently rolling land bears E. and W.  
 40.00 Set a sandstone, 18 x 6 x 6 ins., 12 ins., in the ground for 1/4 sec. cor. marked 1/4 on the W. face; and raise a mound of stones, 2 ft. base, 1 1/2 ft. high, W. of the corner. Pits impracticable.  
 46.05 Enter scattering cedar timber bears E. and W.  
 62.00 Draw, 70 lks. wide, course S. E.  
 64.00 Begin ascent E. and W.  
 80.00 Set a sandstone, 24 x 10 x 5 ins., 18 ins., in the ground for the corner to sections 20, 21, 28 and 29, marked with 2 grooves on the S. and 4 grooves on the E. edges, whence,  
 A Juniper, 24 ins., in diam. bears N. 10 3/4° E., 272 lks. dist. mkd. T. 23 N., R. 6 W., S. 21 B. T.  
 No other trees within limits and raise a md. of stones 2 ft. base, 1 1/2 ft. high, W. of the corner. Pits impract.  
 Land nearly level gently rolling and mountainous.  
 Soil sandy and gravelly loam and stony; 2nd, 3rd and 4th rate.  
 Timber scattering cedar.  
 Mts. land 16.00 chains.

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S. 89° 57' E., on a random line, bet. secs. 21 and 28.  
 40. Set temp. 1/4 sec. cor.  
 79.96 Intersect the N. and S. line, 8 lks. S. of the cor. to secs. 21, 22, 27 and 28; thence I run, WEST, on a true line bet. secs. 21 and 28.  
 Over gently rolling land through scattering cedar timber.  
 12.00 Draw 1.00 chain wide, course S. E.  
 39.98 Set a sandstone, 24 x 16 x 12 ins., 18 ins., in the

Chs.	ground for 1/4 sec. cor. marked 1/4 on the N. face; whence, A Cedar, 10 ins., in diam. bears S. 9° W., 152 lks. dist. marked 1/4 S. 28 B. T. No other trees within limits, and raise a md. of stones, 2 ft. base, 1 1/2 ft. high, N. of the corner. Draw, 1.00 chain wide, course southerly.
41.97	Draw, 2.00 chains wide, course southerly.
64.00	Begin ascent of spur extends 88 lks. E. from Red Mesa.
70.00	The corner to sections, 20, 21, 28 and 29.
79.96	Land gently rolling and mountainous. Soil gravelly and stony; 3rd and 4th rate. Timber, scattering cedar and juniper. Undergrowth, tesotilla, mescal and cactus. Mountainous land 9.70 chains.
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40.	S. 89° 58' W., on a random line bet. secs. 20 and 29.
72.10	Set temp. 1/4 sec. cor. Intersect the W. boundary of the Tp. 5 lks. S. of the corner to sections 24, 25, 20 and 29, Thence I run, EAST, on a true line, bet. secs. 20 and 29. Over mountainous land ascending through scattering cedar timber.
15.00	Top of red mesa bears N. N. E. and S. S. W. 300 ft. above the cor. of secs. 20, 24, 25 and 29. Enter heavy pinon timber.
21.50	Head of Gulch course Northwesterly.
26.40	Leave heavy timber and begin steep descent.
32.10	Set a sandstone, 24 x 10 x 10 ins., 18 ins., in the ground for 1/4 sec. cor. marked 1/4 on the N. face; and raised a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of the corner. Pits impracticable.
64.11	Gulch 15 lks. wide, course S. S. E. and ascend.
72.10	Top of spur extends to the S. and E. Cor. of secs. 21, 20, 28 and 29. Land mountainous. Soil gravelly, stony and rocky; 3rd and 4th rate. Pinon and cedar timber. Undergrowth cedar oak and spanish bayonet. Mts. or land covered with heavy timber and difficult to survey 72.10 chains.
Sept. 26-	
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Sept. 27-	
	At 7hs. 25 mins., a. m., 1. m. t., at the cor. to secs. 20, 21, 28 and 29, I set off 1° 24' S., on the decl. arc; 35° 22' N., on the Lat. arc and determine a meridian with the Solar; thence I run, N. 0° 3' W., bet. secs. 20 and 21. Over mountainous land ascending through scattering timber.
2.70	Top of spur extends S. S. E. and descend.
7.50	Gulch 40 lks. wide, course E. thence S. E. and ascend.
19.95	Spur 5 lks. E. and descend.
27.50	Gulch 15 lks. wide, course S. easterly, and ascend.
37.00	Spur extends S. E. and descend.
40.00	Set a sandstone, 21 x 10 x 5 ins., 16 ins., in the ground for 1/4 sec. cor. marked 1/4 on the W face; whence A juniper, 24 ins., in diam. bears S. 20 1/2° E., 182 lks. dist. marked 1/4 S 21 B. T. A Juniper, 9 ins., in diam. bears N. 66 3/4° W., 59 lks. dist. marked 1/4 S. 20 B. T. Raised a md. of stones, 2 ft. base, 1 1/2 ft. high W. of the corner.
49.00	Gulch, 1.00 chain wide, course S. E. and ascend.
60.00	Spur extends to the S. E. and descend.
70.50	Gulch 30 lks. wide, course S. S. E. and begin steep ascent of the S. slope of the red mesa over limestone ledges.

80. On a limestone ledge, E. and W. 3 ft. above ground, I mark a cross for the exact corner point of secs. 16, 17, 20 and 21, with 3 grooves S. and 4 grooves E. of cross, and raise a md. of stones, 2 ft. base, 1 1/2 ft. high, W. of cross. Pits impracticable. Land mountainous. Soil gravelly stony and rocky; 3rd and 4th rate. Scattering cedar and pinon timber. Undergrowth oak, mescal and cactus. Mountainous land 80.00 chains, and exceptionally difficult to survey.
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40. EAST, on a random line, bet. secs. 16 and 21.  
79.98 Set temp. 1/4 sec. cor. Intersect the N. and S. line, 7 lks. N. of the objective corner; thence I run, N. 89° 57' W., on a true line, bet. secs. 16 and 21. Over mts. land ascending through cedar and juniper timber through dense brush.
- 11.95 Top of red mesa bears northeasterly thence over gently rolling land.
- 37.00 Draw 60 lks. wide, course N; thence northeasterly.  
39.99 Set a limestone, 18 x 6 x 5 ins., 12 ins., in the ground for 1/4 sec. cor. marked 1/4 on the N. face; A Cedar, 9 ins., in diam. bears N. 15° E., 10 lks. dist. mkd. 1/4 S. 16 B. T. No other trees within limits and raise a md. of stones, 2 ft. base, 1 1/2 ft. high, N. of the corner.
- 54.00 Draw 60 lks. wide, course N. E.  
65.00 Descend steep from mesa; thence along S. slope of Red Mesa.  
79.98 The corner to sections, 16, 17, 20 and 21. Land gently rolling, mesa and mountains. Soil, gravelly; stony and rocky; 3rd and 4th rate. Timber cedar and juniper. Undergrowth cedar, oak, spanish bayonet and cactus. Mts. or land covered with heavy timber 79.98 chains. Line was very difficult to survey. Sept. 27-
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- Sept. 28-
- At the corner to secs. 16, 17, 20 and 21, at 8 h. a. m., 1. m. t., I set off 35° 23' N., on the Lat. Arc; 1° 48' S., on the decl. arc and determine a meridian with the Solar; thence I run, WEST, On a random line, bet. secs. 17 and 20.
40. Set temp. 1/4 sec. cor.  
72.05 Intersect the west bdy. of the township 3 lks. S. of the cor. point to secs. 17, 20, 13 & 24. Thence I run S. 89° 59' E. on a true line bet. secs. 17 & 20, from the cor. point on limestone terrace, along S. W. slope of mesa, thro. scattering cedar timber & dense brush. Gulch 40 lks. wide, course S. W. begin steep ascent.
- 25.90 Set a limestone 21x8x5 ins. 16 ins. in the ground for  
32.05 1/4 sec. cor. marked 1/4 on the N. face. and raised a mound of stone 2 ft. base, 1 1/2 ft. high. N. of cor. Pits impracticable.
- 39.70 Top of Red Mesa brs. N. N. W. & enter heavy timber.  
58.50 Leave heavy timber brs. N. E. & S. W. & descend.  
66.00 Head of gulch, course S. S. E.  
72.05 The cor. to secs. 16, 17, 20 & 21. Land mountainous & gently rolling. Soil gravelly, stony & rocky. 3rd. & 4th. rates. Timber cedar & pinon. Undergrowth cedar, oak, mescal, sage brush & cactii. Mountainous land & covered with dense undergrowth 72.05 chs. This mile was extremely difficult to survey.
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Chs. N. 0° 3' W., bet. secs. 16 and 17.  
 Over mountainous land ascending through heavy cedar timber.

1.00 Top of red mesa bears E. and W. and enter heavy cedar timber and dense cedar and oak undergrowth.

19.00 Enter gently rolling land.

40.00 Set a limestone, 18 x 14 x 8 ins., 12 ins., in the ground for 1/4 sec. cor. whence,  
 A Cedar, 14 ins., in diam. bears N. 32 3/4° E., 28 lks. dist. marked 1/4 S 16 B. T. ✓  
 A Cedar, 8 ins., in diam. bears N. 56 1/2° W., 20 lks. dist. marked 1/4 S 17 B. T. ✓  
 Raised a md. of stones, 2 ft. base, 1 1/2 ft. high, W. of the corner.

67.00 Draw 1.00 chain wide, bears E. N. E. and ascend.

72.00 Ridge bears E. and W. and leave dense undergrowth.

76.50 Descend.

80.00 Set a sandstone, 18 x 12 x 8 ins., 12 ins., in the ground for the cor. to secs. 8, 9, 16 and 17, mkd. with 4 grooves on the S. and E. edges; whence,  
 A Cedar, 7 ins., in diam. bears N. 37 1/2° E., 118 lks. dist. marked T. 23 N., R. 6 W., S. 9 B. T. ✓  
 A Cedar, 9 ins., in diam. bears S. 28 1/2° E., 150 lks. dist. mkd. T. 23 N., R. 6 W., S. 16 B. T. ✓  
 A Cedar, 24 ins., in diam. bears S. 18 1/2° W., 81 lks. dist. mkd. T. 23 N., R. 6 W., S. 17 B. T. ✓  
 A Cedar, 10 ins., in diam. bears N. 19 3/4° W., 63 lks. dist. mkd. T. 23 N., R. 6 W., S. 8 B. T. ✓  
 Raised a md. of stones, 2 ft. base, 1 1/2 ft. high, W. of the corner.

Land gently rolling and mountainous.  
 Soil gravelly loam; stony and rocky; 2nd, 3rd and 4th rate.  
 Cedar and juniper timber; undergrowth, cedar, oak mescal and cactus.  
 Mts. land or land covered with heavy timber and difficult to survey 80. chains.

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40. S. 89° 59' E., on a random line, bet. secs. 9 and 16.  
 80. Set temp. 1/4 sec. cor.  
 Intersect the N. and S. line, 3 lks. N. of the corner to secs. 9, 10, 15 and 16; thence I run, N. 89° 58' W., on a true line, bet. secs. 9 and 16.  
 Over rolling land through scattering timber and dense brush.

8.00 Gulch 60 lks. wide, course N; thence northeasterly and enter heavy timber.

40.00 Set a limestone, rock, 3 x 3 x 2 ft. above ground, marked 1/4 on the N. face; whence,  
 A juniper, 24 ins., in diam. bears N. 39° E., 66 lks. dist. marked 1/4 S. 9 B. T. ✓  
 A Juniper, 48 ins., in diam. bears S. 43 1/2° E., 170 lks. dist. marked 1/4 S. 16 B. T. ✓

43.11 Gulch 30 lks. wide, course N.  
 49.40 Gulch 40 lks. wide, course N. E.  
 73.02 Gulch 60 lks. wide, course northeasterly and leave heavy timber.

80.00 The corner to secs. 8, 9, 16 and 17.  
 Land rolling.  
 Soil gravelly and rocky; 3rd and 4th rate.  
 Cedar and juniper timber. Undergrowth cedar and oak.

Heavy timbered land or land covered with dense brush.  
 80.00 chains. Sept. 28

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At the cor. to secs. 8, 9, 16 and 17-  
 Sept. 29- At 7 hs. 30 mins., a. m., 1. m. t., I set off 2° 10 1/2' S., on the Decl. arc; 35° 24' N., on the Lat. arc and determine a meridian with the Solar; thence I run,

Chs.	N. 89° 59' W., on a random line, bet. secs. 8 and 17.
40.00	Set temp. 1/4 sec. cor.
79.97	Intersect the W. boundary of the Tp. 7 lks. S. of the corner point to secs. 8, 12, 13 and 17.
	Thence I run,
	S. 89° 56' E., on a true line, bet. secs. 8 and 17.
	From Cor. pt. Ascending over rocks.
2.70	Top of red mesa bears N. N. W. and enter heavy timber and dense brush.
31.97	Set a limestone, 18 x 8 x 6 ins., in a mound of stones impracticable to set in the ground, stone marked 1/4 on the N. face; whence
	A Cedar, 5 ins., in diam. bears N. 47 1/2° E., 77 lks. dist. marked 1/4 S. 8 B. T. ✓
	A Juniper, 13 ins., in diam. bears S. 37 1/2° W., 178 lks. dist. marked 1/4 S. 17 B. T. ✓
40.25	Gulch 15 lks. wide, course southeasterly.
57.20	Gulch 40 lks. wide, course N. E. and thence east.
71.97	The corner to secs. 8, 9, 16 and 17.
	Land gently rolling and mountainous.
	Soil gravelly stony and rocky 3rd and 4th rate.
	Cedar and juniper timber.
	Undergrowth cedar, oak, spanish bayonet and cactus.
	Mts. or land covered with dense brush and heavy timber 71.97 chains.
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	N. 0° 2' W., bet. secs. 8 and 9.
	Over gently rolling land through heavy timber and dense brush.
5.30	Gulch 30 lks. wide, course N. E.
40.00	Set a limestone in place, 18 x 8 x 8 ins., above ground marked 1/4 on the W. face & across (x) for exact cor. point.
	A Cedar, 6 ins., in diam. bears N. 70 1/4° E., 49 lks. dist. mkd. 1/4 S. 9 B. T. ✓
	A Cedar, 6 ins., in diam. bears N. 40° W., 13 lks. dist. marked 1/4 S. 8 B. T. ✓
	Raised a md. of stones, 2 ft. base, 1 1/2 ft. high, W. of the corner.
42.00	Gulch 40 lks. wide, course northeasterly.
50.70	Gulch 30 lks. wide, course easterly.
60.00	Gulch 30 lks. wide, course easterly.
71.00	Ascend.
80.00	Limestone, 18 x 8 x 6 ins., 12 ins., in the ground for the cor. to secs. 4, 5, 8 and 9, marked with 5 grooves on the S. and 4 on the E. edges, whence
	A Cedar, 5 ins., in diam. bears N. 9° E., 96 lks. dist. marked T. 23 N., R. 6 W., S. 4 B. T. ✓
	A Cedar, 6 ins., in diam. bears S. 25 1/2° E., 189 lks. dist. marked T. 23 N., R. 6 W., S. 9 B. T. ✓
	No others within limits and raise a md. of stones 2 ft. base, 1 1/2 ft. high, W. of the corner.
	Pits Impract.
	Timber in sections 5 and 8, near this corner is scrub cedar, which is unfit for bearing trees.
	Land gently rolling. Soil gravelly and stony; 3rd and 4th rate.
	Timber cedar juniper and pinon.
	Undergrowth cedar and oak.
	Heavy timbered land or land covered with dense brush and difficult to survey 80. chains.
	Sept. 29.
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	Sept. 30- At the cor. to secs. 4, 5, 8 and 9, at 7 hs. 55 mins. a. m., 1. m. t., I set off 35° 24' N., on the Lat. arc; 2° 35' S., on the decl. arc and determine a meridian with the Solar thence I run,
	S. 89° 59' E., on a random line, bet. secs. 4 and 9.
40.	Set temp. 1/4 sec. cor.
79.96	Int. the N. and S. line, 10 lks. S. of the cor. to secs. 3, 4, 9 and 10; thence I run,
	S. 89° 58' W., on a true line, bet. secs. 4 and 9.



39.98 Over gently rolling land through heavy timber and dense undergrowth.  
 Set a limestone, 21 x 8 x 5 ins., 16 ins., in the ground for 1/4 sec. cor. marked 1/4 on the N. face; whence,  
 A Cedar, 6 ins., in diam. bears N. 80° E., 52 lks. dist. marked 1/4 S. 4 B. T.  
 A Cedar, 7 ins., in diam. bears S. 14 1/2° W., 82 lks. dist. marked 1/4 S. 9 B. T.

71.00 Gulch 15 lks. wide, course S.

79.96 The corner to sections, 4, 5, 8 and 9.  
 Land gently rolling.  
 Soil gravelly and stony; 3rd and 4th rate.  
 Timber, cedar, pinon and juniper.  
 Undergrowth, cedar, oak and cactus.  
 Land covered with heavy timber or dense brush and difficult to survey 79.96 chains.

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40. N. 89° 56' W., on a random line, bet. secs. 5 and 8.  
 79.90 Set temp. 1/4 sec. cor.  
 Intersect the W. boundary of the Tp. 8 lks. N. of the corner to secs. 5, 8, 1 and 12; thence I run, EAST, on a true line, bet. secs. 5 and 8.  
 Over mountainous land ascending steep; through heavy timber and dense brush.

11.71 Top of red mesa, bears North, North WEST.  
 Leave heavy timber.

31.90 Set a limestone, 18 x 6 x 6 ins., 12 ins., in the ground for 1/4 sec. cor. marked 1/4 on the N. face; whence,  
 A Juniper, 24 ins., in diam. bears S. 186 lks. dist. marked 1/4 S. 8 B. T. No other tree within limits and raise a md. of stones, 2 ft. base, 1 1/2 ft. high, N. of the corner. Pits impracticable.

60.00 Begin descent through heavy timber.

71.90 The corner to sections, 4, 5, 8 and 9.  
 Land rolling and mountainous.  
 Soil gravelly stony and rocky; 3rd and 4th rate.  
 Timber, cedar and juniper.  
 Undergrowth cedar, oak and cactus.  
 Mountainous or land covered with heavy timber or dense brush and difficult to survey 71.90 chains.

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40. N. 0° 3' W., on a random line, bet. secs. 4 and 5.  
 79.98 Set temp. 1/4 sec. cor.  
 Intersect the N. boundary of the Tp. 2 lks. E. of the corner to sections, 32 and 33.  
 Thence I run, South 0° 04' E., on a true line, bet. secs. 4 and 5.  
 Over rolling land through scattering cedar timber.

3.00 Draw bears E. thence northeasterly.

9.40 Draw, 80 lks. wide, course northeast.

27.30 Draw 60 lks. wide, course northeast.

39.98 Set a limestone, 21 x 8 x 5 ins., in a mound of stones (impracticable to set in the ground on account of bed rock) marked 1/4 on the W. face; and raise a md. of stones, 2 ft. base, 1 1/2 ft. high, W. of the cor. Pits impracticable.

50.00 Enter heavy cedar timber bears E. and W.

52.00 Enter same draw course N. N. W.

57.00 Leave draw course N.

75.00 Descend.

79.96 The cor. to secs. 4, 5, 8 and 9.  
 Land heavy and rolling. Soil gravelly and stony 3rd and 4th rate. Timber cedar and undergrowth cedar.  
 Heavy timber 29.98 chains.

Sept. 30, 1906.

GENERAL DESCRIPTION.

The Southeastern portion of this township, below the rim of the red mesa is gently rolling and level

The soil of this portion of the township is mostly sandy and gravelly loam, 1st, 2nd and 4rd rate.

Cedar and Pinon timber is found in the Southwest The northern portion of the Tp. is a high rolling mesa traversed by deep rocky gulches and covered with a heavy growth of cedar and pinon timber. The Soil of the red mesa is sandy and gravelly loam ; stony and rocky of the 2nd, 3rd and 4th rate.

There is no permanent running water in the Tp. There is a storage reservoir in the Township, one in the Center of Sec. 24.

The town of Seligman is located in the southern part of sec. 36.

The A. T. & S. F. R. R. runs through the southern tier of sections from the N. N. W. to the E. S. E.

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

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LIST OF NAMES.

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A list of the names of the individuals employed by Edgar C. Dietrich  
....., United States Deputy Surveyor, to assist in running, measuring, and

marking the lines and corners described in the foregoing field notes of the survey of The  
Subdivisional lines of Sp 23 N, R. 6 N,  
showing the respective capacities in which they acted:

O. A. Mc Catherin ..... , Chairman.

Clarence M. Poole ..... , Chairman.

Jean Mazarin ..... , Moundman.

Charles Gardner ..... , Axman.

..... , Axman.

Jim Mahon ..... , Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Edgar C. Dietrich  
....., United States Deputy Surveyor, in surveying all

those parts or portions of the Subdivisional lines of Sp 23 N,  
R. 6 N,

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

O. A. Mc Catherin ✓ ..... , Chairman.

Clarence M. Poole ✓ ..... , Chairman.

Jean Mazarin ✓ ..... , Moundman.

Ch Charles Gardner ✓ ..... , Moundman.

Charles Gardner ✓ ..... , Axman.

..... , Axman.

Jim Mahon <sup>his</sup> Frank <sup>W. J. M. (clerk)</sup> ..... , Flagman.

Subscribed and sworn to before me this 30th  
; day of September, 1906.

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



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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Edgar C. Dietrich United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Frank S. Ingalls United States Surveyor General for Arizona, bearing date of the 2 day of May, 1906, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Arizona, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the Subdivisional lines of Sp 23 N., R. 6 W.

River Base of the Gila & Salt meridian, in the Territory of Arizona, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Arizona and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Edgar C. Dietrich  
United States Deputy Surveyor.

Subscribed by said Edgar C. Dietrich, and sworn to before me }  
this 24<sup>th</sup> day of April, 1907

[Signature]



U. S. Commissioner, First Judicial District,  
Territory of Arizona, residing at Tucson.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix AZ June 19<sup>th</sup>, 1907

The foregoing field notes of the survey of the Subdivisional lines of T 23 N. & 6 W. of the Gila and Salt River Base and Meridian, in the Territory of Arizona.

executed by Edgar C. Dietrich D.S.  
under his contract No. 140, dated May 2<sup>nd</sup> 1906, 1906, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Frank S. Ingalls  
United States Surveyor General.

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

~~United States Surveyor General.~~