

1902

BOOK 1902

FIELD NOTES

OF THE SURVEY OF THE

Subdivision of Tract No 12 West
Range 8 and 9 East

1902

1902

Of the Great Salt River Road Meridian,

AS SURVEYED BY

James B. Wright, United States Deputy Surveyor,

Under his Contract No. 133, dated *May 26th 1905*, 189

Survey commenced *August 24th 1905*, 189

Survey completed *August 31st 1905*, 189

48

NAMES AND DUTIES OF ASSISTANTS.

Joseph R. Cook Chairman

Arthur Pogue Chairman

Henry Malloy Workman

Hugh Fuller Workman

William Beach Assessor

William Edmunds Assessor

Julian Funnigan Flagman

BOOK 1902

Book No. 1902

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PRELIMINARY OATHS OF ASSISTANTS.

BOOK 1902

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

Subd of Trac Tps 12 North Rps 8 & 9 East

Joseph R Cook, Chainman.
Arthur Pogue, Chainman.

Subscribed and sworn to before me this 19th
day of August 1905, 189

W. G. Power



WE, Harry Mallory and Hugh Fuller
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

Subd of Trac Tps 12 North Rps 8 & 9 East

Harry Mallory, Moundman.
Hugh Fuller, Moundman.

Subscribed and sworn to before me this 19th
day of August 1905, 189

W. G. Power



WE, William Edmunds and William Beach
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

Subd of Trac Tps 12 North Rps 8 & 9 East

William Edmunds, Axman.
William Beach, Axman.

Subscribed and sworn to before me this 19th
day of August 1905, 189

W. G. Power



I, Julien Jermigan, 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

Trac Subd of Tps 12 North Rps 8 & 9 East

Julien Jermigan, Flagman.

Subscribed and sworn to before me this 19th
day of August 1905, 189

W. G. Power



Subdivision of Tp. 12 N., R. 8 E.

1. D

Chains.

Survey commenced August 26th, 1905, and executed with a Young and Sons' light mountain transit, No. 6492, with Smith's solar attachment on side; the horizontal limb being provided with two double verniers, each reading to single minutes of arc; which is also the least count of the lat. and decl. arcs.

At 7 hrs. 30 mins. A.M. l.m.t., I set off $34^{\circ} 23'$ on the lat. arc., and $10^{\circ} 33'$ N. on the decl. arc., and determine a true meridian with the solar, at Post No. 49, on the S. bdy. of the Black Mesa Forest Reserve, which is an iron post, capped with brass, marked and witnessed as described in the field notes furnished by the Surveyor General. This meridian falls $\frac{1}{4}$ inch west of the meridian established by Polaris on the night of August 21st. (See notes of Range line bet. Rgs. 8 and 9 E., through Tp. 12 N.) *for Polar's observation and latitude and longitude.* Hence I conclude that the adjustments of my instrument are satisfactory.

Thence I retrace,

West on S. bdy. of Sec. 36.

40.00 $\frac{1}{4}$ sec. cor. as described in field notes furnished by Surveyor General.

80.00 Post No. 50, on line, of the Black Mesa Forest Reserve, which is an iron post, capped with brass, set in a md. of stone, marked and witnessed as described by the Surv. General.

Hence the South Bdy. of Sec. 36 brs. E. and W., and my chaining agrees with the former survey.

Thence I run,

N $\frac{7}{8}$ bet. secs. 35 and 36, Var. 15° E. Descending Over mountainous land, through dense scrub oak.

14.50 Gulch, 30 lks. wide, course E.

18.50 Fence, brs. N. 50° E. and S. 50° W. Enter field of R. Fuller.

27.00 ~~Ascend.~~

30.00 Top of slope brs. E. Descend,

35.60 Fence brs. E. & W. Enter field of W.R. Fuller

40.00 Set a limestone 30 x 14 x 8 ins., ²³ 20 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. From which,

A white oak 6 ins. diam. brs. N. 47° E. 44 lks. dist., marked $\frac{1}{4}$ S 36 B T.

A white oak 15 ins. diam. brs. S. $89\frac{1}{2}^{\circ}$ W. 93 lks. dist., marked $\frac{1}{4}$ S 35 B T.

45.00 Gulch, 20 lks. wide brs E.

50.00 Fence, brs. E. & W. Enter field of David Fuller.

54.00 Fence, brs. N. 40° W. and S. 40° E.

62.20 Fence, brs. E. & W. *what course? 23*

80.00 Set a sandstone 30 x 10 x 10 ins., ²³ 26 ins. in the ground for cor. of secs. 25, 26, 35 & 36, marked with one notch on S. and one notch on E. edges, and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high W. of cor. From which,

An oak 24 ins. diam. brs. N. 2° W. 27 lks. dist., marked T 12 N R 8 E S 26 B T.

An oak 24 ins. diam. brs. S. 89° E. 84 lks. dist., marked T 12 N R 8 E S 36 B T.

An oak 20 ins. diam. brs. N. 70° E. 108 lks. dist., marked T 12 N R 8 E S 25 B T.

No other bearings available.

Land, mountainous.

Soil, 1st and 2nd rate.

Timber, pine, oak, cedar and juniper.

Land, mountainous. 80.00 chs. dist.

Chains	
	East on a random line bet. secs. 25 & 36.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.98	Intersect E. Bdy. of Tp. 5 lks. N. of cor. to secs. 25, 30, 31 & 36.
	Thence I run, N. $89^{\circ} 58'$ W. on a true line bet. secs. 25 & 36. Over mountainous land. Descending through Pine & cedar
10.20	Fence brs. N. & S. Enter field.
10.20	Fence brs. N. & S. Leave field.
20.90	Pine Creek 130 lks. wide, clear running water brs S.
21.25	Fence brs. N. & S.
23.40	House, not occupied, 2 chs. N.
24.20	Fence brs. N. & S.
24.60	Main street of Pine, 80 lks. wide, brs. N. & S.
25.00	Fence brs. N. & S.
25.50	House of W. J. Randall 1 ch. N. Enter orchard of W. J. Randall.
28.90	Fence brs. N. & S. Leave orchard.
29.30	Old road brs. N. & S.
29.65	Fence brs. N. & S.
39.99	Set a sandstone 30 x 30 x 6 ins. ²³ 20 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. Dig pits 18 x 18 x 12 ins. E. & W. of stone 3 ft. dist., no bearings available.
45.60	Fence brs. N. & S. Enter cultivated field.
72.90	Fence brs. N. & S. Leave cultivated field
77.90	Road, Pine to Flagstaff, brs. N. 60° W. & S. 60° E.
78.30	Fence, brs. N. 60° W. and S. 60° E.; enter field. Descent steep
79.98	To cor. of secs. 25, 26, 35 & 36. Land, mountainous. Soil, 1st and 2nd rate. Timber, pine and oak; Undergrowth, scrub pine and oak. Land, mountainous, heavily timbered or covered with dense undergrowth. Dist. 79.98 chs.

	N. bet. secs: 25 & 26. Over mountainous land. Ascending through dense scrub oak and mahogany.
1.20	Fence brs. E. & W. Leave field.
1.30	Road, Pine to Flagstaff brs. E. & W. ²³
40.00	Set a sandstone 30 x 15 x 10 ins., ²³ 20 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. From which An oak 7 ins. diam. brs. S. 57° E. 18 lks. dist., marked $\frac{1}{4}$ S 25 B T. A juniper 8 ins. diam. brs. S. 76° W. 46 lks. dist., marked $\frac{1}{4}$ S 26 B T. Ascend through dense thicket of manzanita & scrub oak.
60.01	Begin steep ascent.
70.00	Top. Begin descent.
79.00	Gulch, 10 lks. wide, course S. 45° E.
80.00	Set a sandstone 24 x 10 x 6 ins., ¹⁸ 15 ins. in the ground for cor. of secs. 25, 26, 23 & 24, marked with two notches on S. and one notch on E. edge, and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. From which, A juniper 6 ins. diam. brs. N. 66° E. 46 lks. dist., marked T 12 N R 8 E S 24 B T. An oak 5 ins. diam. brs. S. 12° E. 52 lks. dist., marked T 12 N R 8 E S 25 B T. An oak 5 ins. diam. brs. S. $52\frac{1}{2}^{\circ}$ W. 45 lks. dist., marked T 12 N R 8 E S 26 B T. An oak 5 ins. diam. brs. N. $73\frac{1}{2}^{\circ}$ W. 11 lks. dist., marked T 12 N R 8 E S 23 B T. Land, mountainous. Soil, 2nd and 3rd rate. Timber, pine, oak, cedar, juniper; ungergrowth, scrub oak, mesquite Land, mountainous, or covered with dense undergrowth. 80.00 chs.

Subdivision of Tp. 12 N. R. 8 E.

Chains	
40.00	S. 89° 58' E. on a random line bet secs. 24 & 25
80.00	Set temp. $\frac{1}{4}$ sec. cor.
	Intersect E. Bdy. of Tp. at cor. of secs. 19, 24, 25 & 30.
	Thence I run,
	N. 89° 58' W, on a true line, bet. secs. 24 & 25.
16.80	Over mountainous land. Ascending. Var. 15° E.
35.00	Gulch, 20 lks. wide, brs. S.
	Top of low ridge, brs. S.
40.00	Round Butte 10 chs. to left 200 ft. high
	Set a sandstone 30 x 15 x 6 ins. ²³ 20 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. From which
	An oak 4 ins diam. brs. N. 50° W. 6 lks. dist.,
	marked $\frac{1}{4}$ S 24 B T.
	A juniper 6 ins. diam. brs. S. 68° W. 59 lks. dist.,
	marked $\frac{1}{4}$ S 25 B T.
	Descend.
55.00	Gulch, 20 lks. wide, brs. S. Ascend.
70.00	Top of ridge. Descend.
80.00	To cor. of secs. 23, 24, 25 & 26
	Land, mountainous.
	Soil, 2nd and 3rd rate.
	Timber, Pine, oak and juniper.
	Land, mountainous. Dist. 80.00 chs.
	Aug. 26, 1905.

	Aug. 27, 1905: At 7 h. 30 m. l.m.t., I set off 10° 12' N.
	on the declination arc, and 34° 23' N. on the latitude
	arc, and determine a true meridian with the solar at Post
	No. 51 on S. Bdy. Black Mesa Forest Reserve, which is an
	iron post capped with brass, marked and witnessed as
	described by the Surveyor General.
	Thence I run,
	N. bet. secs. 34 & 35.
	Over mountainous land. Ascending.
	Along steep E. slope of mountain, through fern, scrub oak
	and mountain mahogany.
40.00	$\frac{1}{4}$ cor. pt. falls in gulch in perishable ground. Ascent steep.
50.00	I mark a malpais boulder WC $\frac{1}{4}$ on W. face for witness cor.
	to $\frac{1}{4}$ sec. cor., and raise a mound of stone 2 ft. base 1 $\frac{1}{2}$
	ft. high W. of cor. (boulder 8x8x5 ins. above ground.)
	An oak 8 ins. diam. brs. N. 10° E. 17 lks. dist.,
	marked WC $\frac{1}{4}$ S 35 B T.
	No other bearings available.
51.00	Top of bluff.
57.00	Top of divide bet, Pine Creek & Strawberry Creek, brs.
	N. 30° E. and S. 30° W.
60.20	Gulch, 10 lks. wide, brs. E.
65.00	Trail to Jones' ranch brs. N.E. & S.W.
67.00	Descend.
80.00	Set a malpais stone 24 x 10 x 8 ins., ¹⁸ 15 ins. in the ground
	for cor. of secs. 26, 27, 34 & 35, marked with 1 notch on
	S. and 2 notches on E. edges. From which,
	A pine 15 ins. diam. brs. N. 85° E. 7 lks. dist.,
	marked T 12 N R 8 E S 26 B T.
	A pine 15 ins. diam. brs. S. 41 $\frac{1}{2}$ ° E. 138 lks. dist.,
	marked T 12 N R 9 E S 35 B T
	An oak 10 ins. diam. brs. xxxx S. 89 $\frac{1}{2}$ ° W. 23 lks. dist.,
	marked T 12 N R 8 E S 34 B T.
	An oak 8 ins. diam. brs. N. 10° W. 76 lks. dist.,
	marked T 12 N R 8 E S 27 B T.
	Land, mountainous.
	Soil, 2nd and 3rd rate.
	Timber, pine, oak, juniper and cedar. Undergrowth, scrub
	oak, mountain mahogany.
	Land, mountainous or covered with dense undergrowth.
	Distance, 80.00 chs.

Chains

35.00
80.02

3.00
7.00
40.00
40.00

50.00
67.00
68.00
76.00
80.02

East on a random line bet. secs. 35. & 26.
Set temp. $\frac{1}{4}$ sec. cor.
Intersect N. & S. line at cor. of secs. 25, 26, 35 & 36.
Thence I run,
West on a true line bet. secs. 26 & 35.
Over mountainous land. Ascend through dense pine & oak.
Dry wash, 20 lks. wide, course S.
House of Dave Fuller, 15 chs. S. 18
Set a sandstone 24 x 12 x 6 ins., 15 ins. in the ground
for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of
stone 2 ft. base $1\frac{1}{2}$ ft. high N. of cor. From which
A pine 30 ins. diam. brs. N. 40° W. 24 lks. dist.,
marked $\frac{1}{4}$ S 26 B T.
A pine 34 ins. diam. brs. S. 80° W. 29 lks. dist.,
marked $\frac{1}{4}$ S. 35 B T.
Begin steep ascent.
Limestone bluff, perpendicular ascent 50 ft.
Top of divide bet. Pine & Strawberry Creeks brs. N. & S.
Begin descent. *Course*
Head of gulch, brs. N.
To cor. secs. 26, 27, 34 & 35..
Land, mountainous.
Soil, 2nd and 3rd rate.
Timber, pine, oak, cedar, juniper, walnut; undergrowth,
scrub oak and mountain mahogany.
Land, mountainous or covered with dense undergrowth.
Dist. 80.02 chs.

19.00
35.00
40.00

58.00
72.00
79.00
80.00

North, bet. secs. 26 & 27.
Over mountainous land.
Descend through dense pine and juniper, and scrub oak.
Gulch, 150 lks. wide, 50 ft. deep, brs. W. Ascend.
Top of Butte. Descend. 18
Set a sandstone 24 x 14 x 6 ins., 15 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. From which,
A pine 14 ins. diam. brs. S. 87° W. 32 lks. dist.,
marked $\frac{1}{4}$ S 27 B T.
A pine 12 ins. diam. brs. S. 30° E. 33 lks. dist.,
marked $\frac{1}{4}$ S 26 B T.
Descend.
Begin steep descent.
Gulch, brs. S. 38° E.
Gulch brs. S.W.
Set a sandstone 30 x 14 x 8 ins., 20 ins. in the ground
for cor. of secs. 22, 23, 26 & 27, notched with two notches
on S. and two notches on E. edges, and raise a mound of
stone 2 ft. base $1\frac{1}{2}$ ft. high W. of cor. From which,
An oak 15 ins. diam. brs. N. 24° E. 22 lks. dist.,
marked T 12 N R 8 E S 23 B T.
A juniper 30 ins. diam. brs. S. 45° E. 31 lks. dist.,
marked T 12 N R 8 E S. 26 B T.
A pine 10 ins. diam. brs. S. 35° W. 29 lks. dist.,
marked T 12 N R 8 E S 27 B T.
An oak 10 ins. diam. brs. N. 18 $\frac{1}{2}$ ° W. 92 lks. dist.,
marked T 12 N R 8 E S 22 B T.
Land, mountainous.
Soil, 2nd & 3rd rate.
Timber, Pine oak and cedar.
Land, mountainous, Dist. 80.00 chs.

40.00
80.04

E. on a random line bet. secs. 23 & 26.
Set temp $\frac{1}{4}$ sec. cor.
Intersect N. & S. line 4 lks. S. of cor. to secs. 23, 24, 25 & 26.
Thence I run,
S. 57° 58' W. on a true line bet. secs. 23 & 26.
Over mountainous land. Ascending.

Subdivision of Tp. 12 N. R. 8 E.

Chains
 8.00 Top of ridge, brs. S. Begin steep descent.
 40.02 $\frac{1}{4}$ sec. cor. on sandstone coulder in place, 2 x 2 ft.,
 x 2 $\frac{1}{2}$ ft. out of ground, which I mark $\frac{1}{4}$ on N. face and
 raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high. N. of
 Cor. Whence,
 A manzanita 7 ins. diam. brs. S. 30° E., 5 lks. dist.,
 marked $\frac{1}{4}$ S 26 B T.
 No other bearings available.
 Descend, through dense manzanita and scrub oak.
 55.10 Road, from Pine to Flagstaff, brs. N. and S.
 56.10 Gulch, 100 lks. wide, 50 ft. deep, course S.
 Ascend steep.
 61.00 Top of slope. Descend.
 66.50 Gulch, 20 lks. wide, 30 ft. deep, course N.
 Ascend.
 71.00 Top of slope, Thence descend through dense pine and
 oak.
 80.04 To cor. of secs. 22, 23, 26 and 27.
 Land, mountainous.
 Soil, rocky, 2nd and 3rd rate.
 Timber, pine, oak, juniper and cedar.
 Undergrowth, scrub oak and Manzanita.
 Land, mountainous, heavily timbered or covered with
 dense undergrowth, 80.04 chs.

Aug. 27th, 1905.

Aug. 28th: At 7 hrs. 30 mins. A.M., l.m.t., I set off
 9° 51' N. on the decl. arc, and 34° 23' N. on the
 lat. arc., and determine a true meridian with the
 solar at Post No. 52, on the S. bdy. of the Black Mesa
 Forest Reserve, which is an iron post, capped with
 brass, marked and witnessed as described in the field
 notes furnished by the Surveyor General.

Thence I run,
 N. 0° 21' W. bet. secs. 33 and 34.
 Var. 15° 10' E.

Over mountainous land; ascending.
 From this cor. Jones' house brs. N. 41 $\frac{1}{2}$ ° W.

3.10 Fence, brs. E. and W.
 11.00 Enter dense oak,
 15.00 Gulch, 60 lks. wide, 25 ft. deep, course W.
 Begin steep ascent on S. slope of Mountain.
 31.00 Jones' house brs. S. 68° 30' W.
 34.00 Top of divide, brs. N.E. and S.W.
 37.00 Descend through dense pine and oak.
 40.00 Set a malpais stone 30 x 15 x 10 ins., ²³ 20 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.

Whence,
 A pine 30 ins. diam. brs. S. 42° E., 22 lks. dist.,
 marked $\frac{1}{4}$ S. 34 B T.

A pine 15 ins. diam. brs. N. 57° W., 69 lks. dist.,
 marked $\frac{1}{4}$ S 33 B T.

56.30 Gulch, 30 lks. wide, 50 ft. deep, course N. 38° E.
 Enter dense manzanita, and ascend along E. slope of
 mountain.

72.00 Top. Descend.

80.00 Set a malpais 30 x 24 x 12 ins., ²³ 20 ins. in the
 ground, for cor. of secs. 27, 28, 33, and 34, marked
 with 1 notch on S. and 3 notches on E. edges; and raise
 a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.

Whence,
 An oak 8 ins. diam. brs. S. 10 $\frac{1}{2}$ ° E., 19 lks. dist.,
 marked T. 12 N R 8 E S 34 B T.

An oak 10 ins. diam. brs. N. 52 $\frac{1}{2}$ ° W., 70 lks. dist.,
 marked T 12 N R 8 E S ~~36 B T.~~ ^W 28 B T.

An oak 12 ins. diam. brs. S 84 $\frac{1}{2}$ ° W., 65 lks. dist.,
 marked T 12 N R 8 E S 33 B T.

A pine 30 ins. diam. brs. N. 68° E., 41 lks. dist.,
 marked T 12 N R 8 E S 34 B T.

Subdivisions of Tp. 12 N., R. 8 E. (Continued.)

Chains.

Land, mountainous.
Soil, rocky, 2nd rate.
Timber, pine, oak and juniper.
Undergrowth, scrub oak and mountain mahogany.
Land mountainous, heavily timbered, or covered with
dense undergrowth, 80.00 chs.

E. on a random line bet. secs. 27 and 34.
40.00 Set temp. $\frac{1}{4}$ sec. cor.
80.10 Intersect N. and S. line 6 lks. S. of cor. to secs. 26, 27, 33 and 34, heretofore described.
Thence I run,
S. $89^{\circ} 57'$ W. on a true line bet. secs. 27 and 34.
Ascending over rolling ground, through dense pine and oak.
8.00 Top of divide, brs. N. and S.
Descend through dense scrub pine.
20.50 Gulch, 50 lks. wide, 50 ft. deep, course N. Ascend.
23.00 Top of slope.
28.00 Enter dense scrub oak.
40.05 Set a malpais stone 24 x 14 x 10 ins., 18 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high. N. of cor.
Whence,
An oak 15 ins. diam. brs. N. $64\frac{1}{2}^{\circ}$ W., 55 lks. dist., marked $\frac{1}{4}$ S 27 B T.
A pine 24 ins. diam. brs. S. $14\frac{1}{2}^{\circ}$ W., 31 lks. dist., marked $\frac{1}{4}$ S 34 B T.
58.60 Gulch, 50 lks. wide, course N. 50° E. Ascend along low ridge, brs. N.
63.00 Gulch, 30 lks. wide, course N. 60° E.,
69.00 Gulch, 80 lks. wide, course N.
70.00 Ascend through dense scrub pine and oak.
80.10 The cor. of secs. 27, 28, 33 and 34.
Land, mountainous.
Soil, rocky, 2nd and 3rd rate.
Timber, pine, oak and juniper.
Undergrowth, scrub oak and pine.
Land, mountainous, heavily timbered, or covered with dense undergrowth, 80.10 chs.

Thence N. 0° E. W. bet. secs. 27 and 28.
Descending through dense scrub pine.
38.00 Bottom. Fence, brs. N. 50° E. and S. 50° W.
Enter field of Ernest Fuller.
40.00 Set a malpais stone 24 x 10 x 8 ins., 18 ins. in the ground, for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
Whence,
An oak 12 ins. diam. brs. S. $14\frac{1}{2}^{\circ}$ W., 67 lks. dist., marked $\frac{1}{4}$ S 28 B T.
A pine 8 ins. diam. brs. N. $56\frac{1}{2}^{\circ}$ E., 53 lks. dist., marked $\frac{1}{4}$ S 27 B T.
40.50 Gulch, course N. 50° W.
50.15 Fence, brs. E. and W. Leave field of Ernest Fuller.
50.50 Gulch, brs. W. House of Ernest Fuller 10 chs. E.
51.20 Road, brs. N. 30° E., and S. 30° W. Enter dense scrub pine.
54.30 Gulch, 60 lks. wide, 30 ft. deep, course W.
Ascend through dense scrub oak and pine.
58.50 Trail, brs. E. and W.
60.00 Leave dense pine timber.
70.00 Top of slope.
77.75 Road, brs. N.E. and S.W.
78.10 Fence, brs. N. 88° E., and S. 65° W. Enter field of Alfred B. Peach.

Subdivisions of Tp. 12 N., R. 8 E. (Continued).

Chains.	
78.20	Trail, brs. N. 60° E. and S. 60° W.
80.00	Set a sandstone 30 x 18 x 10 ins., 20 ins. in the ground, for cor. of secs. 21, 22, 27 and 28, marked with 2 notches on the S. and 3 notches on the E. edges, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Whence, A pine 30 ins. diam. brs. S. 52° E., 94 lks. dist., marked T 12 N R 8 E S 27 B T. An oak 20 ins. diam. brs. S. 18½° W., 124 lks. dist., marked T 12 N R 8 E S 28 B T. No other bearings available. Land, mountainous. Soil, rocky, 2nd and 3rd rate. Timber, pine, oak, cedar, juniper and locust. Undergrowth, scrub pine, and oak, manzanita and willow. Land mountainous, heavily timbered, or covered with dense undergrowth, 80.00 chs.

	At the above mentioned corner at 12:00 hrs. 02 nd APRIL. l.m.t., I set off 9° 46' N. on the decl. arc., and observe the Sun on the meridian; the resulting latitude is 34° 25' N. or 1' greater than the calculated latitude.
	Thence I run, N. 89° 57' E. on a random line bet. secs. 22 and 27.
40.00	Set temp. ¼ sec. cor.
80.04	Intersect N. and S. line 4 lks. N. of cor. to secs. 22, 23, 26 and 27.
	Thence I run, S. 89° 59' W. on a true line bet. secs. 22 and 27. Over mountainous land. Descending.
10.00	Gulch, course N.E. Ascend.
20.00	Top and descend.
31.00	Bottom of slope and ascend. Through dense pine timber and scrub pine.
38.00	Top of ridge, brs. N. 50° E.
40.02	Set a sandstone 24 x 14 x 12 ins., 18 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. Whence, A pine 15 ins. diam. brs. N. 60° W., 25 lks. dist., marked ¼ S 22 B T. An oak 20 ins. diam. brs. S. 52½° W., 40 lks. dist., marked ¼ S 27 B T. Descend.
42.60	Gulch, 50 ft. deep, 20 lks. wide, course N. Ascend.
47.00	Top of slope. Descend. Over broken ground.
53.50	Trail, brs. N.E. and S.W. → J. Lizard's house brs. N. about 5 chs. ✓
59.00	Fence, brs. N. and S.
73.90	Head, brs. N. 50° E. and S. 50° W.
75.00	House of Alfred B. Peach brs. 5 chs. N.
75.25	Fence, brs. N. 65° E. and S. 65° W.
80.04	The cor. of secs. 21, 22, 27 and 28. Land, mountainous. Soil, rocky, 2nd and 3rd rate. Timber, pine, oak, cedar and juniper. Undergrowth, scrub pine. Land, mountainous, heavily timbered, or covered with dense undergrowth, 80.04 chs.

8. Subdivisions of Tp. 12 N., R. 8 E. (Continued).

Chains.

From the cor. of secs. 22, 23, 27 and 28, previously described,
I run,
N. 0° 21' W. bet. secs. 22 and 23.
Descending through dense scrub oak, pine, scattering oak, manzanita and juniper.
10.00 Foot of descent. Ascend.
10.95 Flagstaff road, brs. E. and W.
20.00 Top of ascent. Leave manzanita. Descend.
29.00 Gulch, brs. N.E., course S.W. Ascend through dense scrub oak.
34.00 Top of ascent. Descend.
38.50 Gulch, brs. E., course W.
40.00 Set a sandstone 36 x 12 x 6 ins., 24 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., from which,
A pine 12 ins. diam. brs. N. 86 $\frac{1}{2}$ ° W., 48 lks. dist., marked $\frac{1}{4}$ S 22 B T.
A juniper 16 ins. diam. brs. S. 65° E., 26 lks. dist., marked $\frac{1}{4}$ S 23 B T.
42.50 Mid Spring canon, brs. N.E., course S.W. Ascend.
48.00 Top of ascent. Descend.
55.50 Gulch, 50 ft. deep, 1 ch. wide, brs. E., course W.
60.00 Ascend.
77.00 Gulch, brs. N.E., course S.W. Ascend to cor. through dense pine and oak.
80.00 Set a sandstone 30 x 12 x 8 ins., 20 ins. in the ground, for cor. of secs. 14, 15, 22 and 23, marked with 3 notches on S. and 2 notches on E. edges, and raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. from which,
An oak 6 ins. diam. brs. N. 71° W., 31 lks. dist., marked T 12 N R 8 E S 15 B T.
An oak 6 ins. diam. brs. S. 46° W., 42 lks. dist., marked T 12 N R 8 E S 22 B T.
A pine 10 ins. diam. brs. N. 33° E., 10 lks. dist., marked T 12 N R 8 E S 14 B T.
A pine 15 ins. diam. brs. S. 9 $\frac{1}{2}$ ° E., 24 lks. dist., marked T 12 N R 8 E S 23 B T.
Land, mountainous.
Soil, rocky, 2nd and 3rd rate.
Timber, pine, oak and juniper.
Undergrowth, scrub oak and manzanita.
Land mountainous, heavily timbered, or covered with dense undergrowth, 80.00 chs.

August 28, 1905.

August 29th: 1905. At 7 hrs. 30 mins. A.M., D.M.C., I set off 9° 29' N. on the decl. arc, and 34° 25' 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. 0° 21' W. bet. secs. 21 and 22.
Over rolling land. Through field of A.B. Peach.
2.80 Road, brs. E. & W.
4.50 Strawberry Creek, course W.
14.20 Fence, brs. E. & W.
14.40 Road, brs. E. & W.
20.00 Enter dense pine, oak and juniper. Gradual ascent.
39.00 Copper float. Descend.
40.00 Set a sandstone 30 x 15 x 10 ins., 20 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. Whence,
A pine 15 ins. diam. brs. S. 33 $\frac{1}{2}$ ° W. 45 lks. dist., marked $\frac{1}{4}$ S B T.
A pine 18 ins. diam., brs. N. 60° E. 8 lks. dist., marked S $\frac{1}{4}$ 22 B T.

Subdivisions of Tp. 12 N., R. 8 E. (Continued)

9.

41.50	Dry wash, course S. W. Ascend.
67.20	Gulch, course S. W.
76.00	Top. Descend.
80.00	I mark a cross with 3 notches on S. and 3 notches on E. on a sandstone ledge 8 ft. out of ground for cor. of sec. 15, 16, 21 & 22; and raise a mound of stone 2 ft. base 1½ ft. high W. of cor. point. Whence, A pine 24 ins. diam. brs. N. 49½° E., 97 lks. dist., marked Tp 12 N R 8 E S 15 B T. A juniper 30 ins. diam. brs. S. 64½° E., 55 lks. dist., marked Tp 12 N R 8 E S 22 B T. An oak 10 ins. diam. brs. S. 10° W., 5 lks. dist., marked Tp 12 N R 8 E S 21 B T. No other bearings available. Land, mountainous. Soil, 2nd and 3rd rate Timber, pine, oak, juniper. Undergrowth, scrub-oak, pine and manazita. Land, mountainous covered with dense undergrowth, 60.00 chs.
40.00	North 89° 59' E. on a random line bet. secs. 15 & 22. Set Temp. ¼ sec. cor.
80.10	Intersect N. & S. line, 3 lks. N. of cor. secs. 14, 15, 22 & 23. Thence I run, West on a true line bet. secs. 15 & 22. Over mountainous land. Descending through dense scrub-pine
7.00	Strawberry Creek, 20 lks. wide, course S. Ascend.
38.20	Road from Strawberry to Flagstaff, brs. N. & S.
40.05	Set a sandstone 30 x 20 x 8 ins. 23½ 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. Whence, A pine 8 ins. diam. brs. N. 31° W., 37 lks. dist., marked ¼ S 15 B T. A pine 12 ins. diam. brs. S. 5° E., 75 lks. dist., marked ¼ S 22 B T.
47.00	Top of steep slope. A bluff 100 ft. high 5 chs. to right. Descend.
80.10	Cor. of secs. 15 & 16, 21 & 22. Land, mountainous. Soil, 2nd and 3rd rate. Timber, pine, oak and juniper. Undergrowth, scrub oak, pine, manzanita and mountain mahogany. Land, mountainous. Dist. 80.10 chs.
32.00	North 0° E. W. bet. secs. 32 & 33. From Post No. 53 on S. Bdy. Black Mesa Forest Reserve, which is an iron post capped with brass, marked and witnessed as described by the Surveyor General. Over mountainous land. Ascending.
40.00	Top of slope. Descend gradual. I mark a cross on a malpais boulder in place 2 x 2½ ft. 1 ft. out of ground; marked ¼ on W. face. From the cor. point, An oak 10 ins. diam. brs. N. 85° W., 80 lks. dist., marked ¼ S 32 B T. An oak 6 ins. diam. brs. S. 25° E. 92 lks. dist., marked ¼ S 33 B T. Thence descend through dense pine, oak and juniper.
47.00	Gulch, 50 lks. wide, course W.
52.00	Road, brs. E. & W.
62.40	Trail, brs. S.E. & N.W.
80.00	I set a malpais stone 30 x 18 x 8 ins., 29 ins. in ground for cor. secs. 28, 29, 32 & 33 marked with 1 notch on S. and 4 notches on E. face, and raise a mound of stone 2 ft. base 1½ ft. high W. of cor. Whence,

10 Subdivisions of Tp. 12 N R. 8 E. (Continued)

Chains

An oak 10 ins. diam. brs. N. 18½° E., 139 lks. dist.; marked Tp 12 N R 8 E S 28 B T.
 A pine 18 ins. diam. brs. S. 75½° W., 237 lks. dist.; marked Tp 12 N R 8 E S 32 B T. *No other trees within limits.*
 Variation at this cor. 28° E., local attraction. Vein of iron ore outcrop.
 Land, mountainous.
 Soil, 2nd and 3rd rate.
 Timber, pine, oak, juniper and cedar. Undergrowth, scrub-oak and mountain mahogany.
 Land, mountainous, 80.00 chs.

East on a random line bet. secs: 28 & 33.
 40.00 Set temp. ¼ sec. cor.
 80.00 Intersect N. & S. line; 1 lk. S. of cor. to secs. 27, 28, 33 & 34.
 Thence I run W. on a true line bet. secs. 28 & 33.
 Ascending through dense oak and juniper.
 11.00 Top of ridge, brs. E. Gradual descent.
 34.00 Bottom of slope. Ascend through dense pine & juniper.
 40.00 Set a malpais stone 24 x 10 x 8 ins. 15 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. Whence.
 An oak 8 ins. diam. brs. N. 23½° E., 72 lks. dist., marked ¼ S 28 B T.
 A pine 30 ins. diam. brs. S. 17½° E., 33 lks. dist., marked ¼ S 33 B T.
 60.00 Top of slope. Begin steep descent, thro dense pine & oak
 80.00 To cor. of secs. 28 & 29, 32 & 33.
 Land, mountainous.
 Soil, 2nd & 3rd rate.
 Timber, pine, oak, juniper and cedar; undergrowth scrub oak and pine.
 Land, mountainous, 80.00 chs.

70° 2' W
 K. bet. secs. 28 & 29.
 Over mountainous land. Ascend through dense pine, oak and juniper and scrub-oak. Variation 28° E.
 28.00 Top of high mesa.
 30.00 Begin descent along E. slope of mountain.
 40.00 Set a malpais stone 30 x 10 x 8 ins. 26 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face, and raise a mound of stone 2 ft. base 1½ ft. high W. of cor. Whence,
 An oak 4 ins. diam. brs. N. 36° W., 28 lks. dist., marked ¼ S 28 B T.
 A pine 14 ins. diam. brs. S. 10½° E., 124 lks. dist., marked ¼ S 28 B T.
 Absent.
 46.00 Top of ascent.
 49.00 Begin steep descent down N. slope of mountain.
 65.00 Grad. descent.
 67.60 Fence, brs. E. & W. Enter cultivated field of Jas. Hopkins.
 73.70 Strawberry Creek, brs. E. & W., 50 lks. wide, course W.
 74.30 Fence, brs. E. & W.
 80.00 To cor. secs. 20, 21, 28 & 29, where I set a sandstone block, 12 x 8 ins., 18 ins. in the ground, marked with S notches and S notches on E. edges, and raise a mound of stone 2 ft. base, 1½ ft. high, N. of cor. Whence, scrub-oak and mountain mahogany.
 A willow 14 ins. diam. brs. N. 41° E., 300 lks. dist., marked T 12 N R 8 E S 21 B T.
 No other bearings available.
 Land mountainous.
 Soil, rocky, 1st and 2nd rate.
 Timber, pine, oak, juniper and willow.

Chains.	Undergrowth, scrub oak, mountain mahogany, and willow. Land, mountainous, heavily timbered, or covered with dense undergrowth, 60.00 chs. Farming land, 20.00 Chs.

	East on a random line bet. secs. 21 and 28.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.00	Intersect N. and S. line at cor. of secs. 21, 22, 27 and 28.
	Thence I run,
	West on a true line bet. secs. 21 and 28.
	Over rolling farm land, along creek valley.
5.00	Strawberry Creek, brs. S. 60° W., ^{50 lks. wide} Enter dense locust and sumach undergrowth.
9.00	Leave undergrowth.
27.40	Gulch, course S.
27.50	Fence, brs. N. and S. <i>leave field</i>
35.00	Fence, brs. N. and S.
36.80	Fence, brs. N. and S.
37.00	Lane to Peach's residence.
37.20	Fence, brs. N and S.
39.00	House of Alfred B. Peach, brs. 4 chs. N.
40.00	Set a sandstone 36 x 18 x 10 ins., 24 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. Whence,
	An oak 10 ins. diam. brs. $S35\frac{1}{2}^{\circ}$ E., 94 lks. dist., marked $\frac{1}{4}$ S $\frac{1}{4}$ B-T. <i>28 B.T. 158 lks. dist. mhd. 1/4 8 21 B.T.</i> No other bearings available.
	Thence through field of A. B. Peach.
47.70	Fence, brs. N. and S. Leave field of A. B. Peach,
58.00	House of Jas. Hopkins, brs. S. 5.50 chs.
60.45	Fence, brs. N. and S.
63.00	Lane to Hopkin's house.
63.80	Fence, brs. N. and S.
74.00	Fence, brs. N.W. and S.E.
74.50	Gulch, course S. 50° W. 70 lks. wide, 15 ft. deep.
	Thence across cultivated field of Jas. Hopkins.
80.00	To cor. of secs. 21, 22, 28 and 29.
	Land, rolling farming country.
	Soil, sandy loam, 1st rate.
	Timber, willow, oak and sycamore.
	Undergrowth, sumach, locust and scrub pine.
	Land covered with dense undergrowth, 20.00 chs.
	August 29th, 1905.
	-----A-----
	August 30th, 1905. At 7 hrs. and 30 mins. A.M., l.m.t. I set off $9^{\circ} 2'$ N. on the decl. arc, and $34^{\circ} 25'$ N. on the lat. arc, and determine a true meridian with the solar at the cor. of secs. 20, 21, 28 and 29.
	Thence I run,
	N. $0^{\circ} 2'$ W. bet. secs. 20 and 21.
	Ascending, through cultivated fields of Jas. Hopkins.
7.00	Fence, brs. E. and W. Leave field.
8.15	Road, brs. N. 60° W. and S. 60° E.
9.60	School house, 150 lks. E.
12.00	Dry wash, course SW.
20.00	Begin steep ascent, through dense pine.
40.00	Set a sandstone 24 x 12 x 6 ins., 18 ins. in the ground, for $\frac{1}{4}$ sec. cor.; marked $\frac{1}{4}$ on W. face, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
	No bearings available. Pits impracticable.
	Begin steep ascent, through dense scrub oak.
60.00	Top of ascent. Descend, through dense pine and oak timber.

Chains.

63.90

Road, brs. SE. and NW.

80.00

Set a sandstone 30 x 12 x 4 ins., ²⁵ 20 ins. in the ground, for cor. of secs. 16, 17, 20 and 21, marked with 3 notches on the S. and 4 notches on the E. edges, and raise a mound of stone 2 ft. base, 1½ ft. high, W. of cor. Whence,

An oak 10 ins. diam. brs. N. 38° E., 69 lks. dist., marked T 12 N R 8 E S 16 B T.

An oak 12 ins. diam. brs. S. 68½° E., 30 lks. dist., marked T 12 N R 8 E S 21 B T.

A pine 24 ins. diam. brs. S. 42½° W., 86 lks. dist., marked T 12 N R 8 E S 20 B T.

An oak 10 ins. diam. brs. N. 24½° W., 20 lks. dist., marked T 12 N R 8 E S 17 B T.

Land, mountainous.

Soil, sandy and gravelly loam, 1s & 2nd and 3rd rate.

Timber, pine, oak, cedar and juniper.

Undergrowth, scrub oak and manzanita.

Land mountainous, heavily timbered or covered with dense undergrowth, 80.00 chs.

40.00

East on a random line bet. secs. 16 and 21.

80.15

Set temp. ¼ sec. cor.

Intersect N. and S. line 5 lks. S. of cor. to secs. 15, 16, 21, and 22.

Thence I run,

S. 89° 58' W. on a true line bet. secs. 16 and 21.

Over mountainous land, ascending through dense scrub oak.

.50

Gulch, 80 lks. wide, 30 ft. deep, course SW.

9.10

Flagstaff road, brs. NE and SW.

11.00

Gradual ascent.

16.00

Top. Begin gradual descent through dense mountain mahogany.

23.00

Steep descent.

30.00

Gulch, 50 lks. wide, 50 ft. deep, course S.

40.08

¼ sec. cor. falls on sandstone ledge in place, 4 ft. out of ground, which I mark with a cross (x) at cor.

point and ¼ on N., and raise a mound of stone, 2 ft. base, 1½ ft. high/ N. of cross. Whence,

An oak 12 ins. diam. brs. N. 60° E., 34 lks. dist., marked ¼ S 16 B T.

An oak 9 ins. diam. brs. S. 25° W., 47 lks. dist., marked ¼ S 21 B T.

60.00

Top of ridge, brs. S. Descend.

80.15

The cor. of Secs. 16, 17, 20, and 21.

Land, mountainous.

Soil, rocky, 2nd and 3rd rate.

Timber, pine, oak, juniper and cedar.

Undergrowth, scrub oak, pine, mountain mahogany, and manzanita.

Land, mountainous, heavily timbered, or covered with dense undergrowth, 80.15 chs.

From the cor. of secs. 31 and 32, on the S. bdy. of the Tp. which is Post No. 54, on S. bdy. of the Black Mesa Forest Reserve, which is an iron post, capped with brass, marked and witnessed as described in the field notes furnished by the Surveyor General.

I run,

N. 0° W. bet. secs. 31 and 32.

Over rolling land, through scattering pine and oak timber. Descending.

13.00

Begin ascent.

Chains.

- 33.20 Trail, brs. NW and SE.
 - 39.00 Top of slope and descend. Through dense pine and juniper.
 - 40.00 Set a malpais stone 30 x 10 x 10 ins., ²³ 20 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. Whence,
 An oak 10 ins. diam. brs. N. 34° W., 48 lks. dist., marked $\frac{1}{4}$ S 31 B T.
 A juniper 30 ins. diam. brs. S. 36 $\frac{1}{2}$ ° E., 76 lks. dist. marked $\frac{1}{4}$ S 32 B T.
 Descending through dense pine and juniper.
 - 80.00 Set a malpais stone 30 x 10 x 10 ins., ~~20~~ ins. in the ground for cor. of secs. 29, 30, 31 and 32, marked with 1 notch on S. and 5 notches on E. edges, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Whence
 A pine 30 ins. diam. brs. N. 19° E., 100 lks. dist., marked T 12 N R 8 E S 29 B T.
 A pine 40 ins. diam. brs. S. 15° E., 37 lks. dist., marked T 12 N R 8 E S 32 B T.
 A pine 40 ins. diam. brs. S. 82° W., 156 lks. dist., marked T 12 N R 8 E S 31 B T.
 A pine 36 ins. diam. brs. N. 24° W., 181 lks. dist., marked T 12 N R 8 E S 30 B T.
 Land, mountainous and rolling.
 Soil, stony, 2nd and 3rd rate.
 Timber, pine, oak, cedar and juniper.
 Undergrowth, scrub oak and pine.
 Land, mountainous, heavily timbered, or covered with dense undergrowth, 80.00 chs.
-
- 40.00 East on a random line bet. secs. 29 and 32. Set temp. $\frac{1}{4}$ sec. cor.
 - 80.04 Intersect N. and S. line at cor. of secs. 28, 29, 32 and 33.
 Thence I run,
 West on a true line bet. secs. 29 and 32.
 Over rolling land. Descending. Th ough dense oak and juniper.
 - 40.02 Set a malpais stone 24 x 15 x 8 ins., 18 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Whence,
 A pine 30 ins. diam. brs. S. 33° W., 32 lks. dist., marked $\frac{1}{4}$ S 32 B T.
 A pine 24 ins. diam. brs. N. 36 $\frac{1}{2}$ ° E., 98 lks. dist., marked $\frac{1}{4}$ S 29 B T.
 - 40.50 Jones' road, brs. N. 65° W. and S. 65° E. Ascend.
 - 45.00 Over stony ground, through scattering pine and oak; descending.
 - 79.00 Dry wash,, 150 lks. wide, course NW.
 - 80.04 To cor. of secs. 29, 30, 31 and 32.
 Land, mountainous and rolling.
 Soil, stony, 2nd and 3rd rate.
 Timber, oak and juniper, pine.
 Undergrowth, scrub oak and squaw bush, and mountain mahogany.
 Land, mountainous, heavily timbered, or covered with dense undergrowth, 80.04 chs.
-

Chains.	
	North $0^{\circ} 3'$ W. bet. secs. 29 and 30. Gradual descending through dense pine, scattering oak and juniper.
1.50	Dry wash, 150 lks. wide, course N. 55° W.
9.00	Dry wash, 30 lks. wide, course W.
10.00	Trail, brs. E. and W. Ascend.
34.00	Trail, brs. S.E. and N.W.
40.00	Set a malpais stone 24 x 12 x 10 ins. 18 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor. Whence, A juniper 40 ins. diam. brs. S. 74° W., 29 lks. dist., marked $\frac{1}{4}$ S 30 B T. No other bearings available. Pits impracticable. Indian ruins 1 ch. East of Cor.
41.20	Road to Jones' ranch, brs. N.W. and S.E.
45.00	Top of ascent. Begin gradual descent.
58.00	Trail brs. N.E. and S.W.
60.10	Enter cultivated field.
64.20	Strawberry Creek, 50 lks. wide, course S. 50° W.
65.00	Fence, brs. E. and W. Enter corral.
66.10	Fence, brs. NW and SE. Leave corral.
68.50	Trail to Maud Hopkins' house, which brs. 3 chs. to West. Ascend through dense scrub oak.
80.00	A malpais boulder in place, 5 ft. x 8 ft., 5 ft. out of ground, which I marked with a cross (x) at exact cor. point, with 2 notches on S. and 5 notches on E. for cor. of secs. 19, 20, 29 and 30, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. point. Whence, An oak 8 ins. diam. brs. N. 20° E., 74 lks. dist., marked T 12 N R 8 E S 20 B T. A malpais boulder 4 x 3 ft., 3 ft. out of ground, marked with a cross (x) B O S 19, brs. N. 24° W., 24 lks. dist. No other bearings available. Pits impracticable. Land, mountainous and rolling. Soil, stony, 1st, 2nd and 3rd rate. Timber, pine, oak, and juniper. Undergrowth, scrub oak and squaw bush. Land, mountainous, heavily timbered or covered with dense undergrowth, 80.00 chs.

	East on a random line bet. secs. 20 and 29.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.06	Intersect N. and S. line at cor. of sec. 20, 21, 28 and 29. Thence I run, West on a true line bet. secs. 20 and 29. Through rolling farm land
13.20	Fence, brs. N. and S. Enter field of Mrs. Lothian.
23.00	Enter dense willow.
24.00	Strawberry Creek, 150 lks. wide, course N. 70° W.
26.00	Road, brs. N. and S.
26.60	Strawberry Creek, 15 ch. wide, course S.
27.25	Fence, brs. N. and S.
40.03	Set a sandstone 30 x 15 x 6 ins., ²³ 26 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. Whence, A pine 36 ins. diam. brs. S. $70\frac{1}{2}^{\circ}$ W., 186 lks. dist., marked $\frac{1}{4}$ S 29 B T. A willow 14 ins. diam. brs. S. 5° W., 220 lks. dist., marked $\frac{1}{4}$ S 29 B T. No B.T. available in sec. 20.
40.40	Fence, brs. N. and S. Enter lane to Mrs. Lothian's house.

Chains.

- 42.50 Mrs. Lothian's house, 150 lks. S.
 43.50 Fence, brs. N. and S.
 53.20 Fence, brs. N. and S.
 54.50 Strawberry Creek, 50 lks. wide, course N.
 56.40 Strawberry Creek, course S., 100 lks. wide.
 Abrupt bank, perpendicular, 15 ft. high.
 60.50 Fence, brs. N. and S. Leave Mrs. Lothian's land.
 60.70 Gulch, 50 lks. wide, 10 ft. deep, course S. Thence
 over cultivated field of Alfred J. Randall.
 70.50 Fence, brs. N. and S.
 71.60 Road, brs. N. and S.
 80.06 The cor. of secs. 19, 20, 29 and 30.
 Land, rolling and farm land.
 Soil, loam, 1st and 2nd rate.
 No timber.
 Undergrowth, willow, scrub oak, sumach.
 Aug. 30th, 1905.
-
- August 31st, 1905. At 7 hrs. 30 mins. A.M., l.m.t.,
 I set off $8^{\circ} 46'$ N. on the decl. arc, and $34^{\circ} 25'$ N.
 on the lat. arc, and determine a true meridian with the
 solar at the cor. of secs. 19, 20, 29 and 30.
 Thence I run,
 N. $0^{\circ} 3'$ W. bet. secs. 19 and 20.
 Along E. slope of ridge, through dense pine and scrub
 oak.
 Variation $15^{\circ} 20'$ E.
 4.00 Begin descent,
 20.00 Trail, Strawberry to Camp Verde, brs. E. and W.
 23.00 Dry wash, 20 lks. wide, course E. Ascend through
 dense scrub oak.
 40.00 Set a sandstone $30 \times 10 \times 4$ ins., $2^{\frac{3}{4}}$ 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. Whence,
 An oak 4 ins. diam. brs. S. $84\frac{1}{2}^{\circ}$ W., 8 lks. dist.,
 marked $\frac{1}{4}$ S 19 B T.
 An oak 12 ins. diam. brs. N. 15° E., 34 lks. dist.,
 marked $\frac{1}{4}$ S 20 B T.
 Ascend..
 48.00 Top of ridge, brs. SE.. Descend through scattering manzan-
 ita and scrub oak.
 54.60 Gulch, 100 lks. wide, 150 ft. deep, course SW.
 Steep ascent.
 80.00 Set a malpais stone $24 \times 10 \times 8$ ins., 18 ins. in the
 ground, for cor. of secs. 17, 18, 19 and 20, marked
 with 3 notches on S. and 5 notches on E. edges, and
 raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of
 cor. Whence,
 An oak 14 ins. diam. brs. N. $82\frac{1}{2}^{\circ}$ E., 240 lks. dist.,
 marked T 12 N R 8 E S 17 B T.
 An oak 6 ins. diam. brs. S. $11\frac{1}{2}^{\circ}$ E., 83 lks. dist.,
 marked T 12 N R 8 E S 20 B T.
 No other bearings available..
 Land, mountainous.
 Soil, 2nd and 3rd rate.
 Timber, pine, oak, juniper and cedar.
 Undergrowth, scrub oak and manzanita.
 Land, mountainous, heavily timbered, or covered with
 dense undergrowth, 80.00 chs.
-
- East on a random line bet. secs. 17 and 20.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.00 Intersect N. and S. line at cor. of secs. 16, 17, 20 and
 21.
 Thence I run,

16. Subdivisions of Tp. 12 N., R. 8 E. (Continued).

Chains.	
	West on a true line bet. secs. 17 and 20. Through dense pine and oak.
16.00	Top of ridge, and descend. Ridge brs. N. and S.
37.50	Canyon, 200 lks. wide, 50 ft. deep, course N. Begin steep ascent.
40.00	Set a sandstone .30 x 10 x 6 ins., ²³ 20 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. Whence, A juniper 36 ins. diam. brs. N. $6\frac{1}{2}^{\circ}$ E., 34 lks. dist., marked $\frac{1}{4}$ S 17 B T. A pine 30 ins. diam. brs. S. 69° E., 76 lks. dist., marked $\frac{1}{4}$ S 20 B T.
61.00	Trail, brs. NW and SE. Ascend.
67.00	Top of ridge, brs. S. Descend. Along top of divide, through dense scrub oak, and mountain mahogany.
80.00	The cor. of secs. 17, 18, 19 and 20. Land, mountainous. Soil, rocky, 2nd and 3rd rate. Timber, pine, oak and juniper. Undergrowth, scrub oak, pine and manzanita. Land, mountainous, heavily timbered or covered with dense undergrowth, 80.00 chs.

At this cor. at 12 hrs. 03' l.m.t., I set off $8^{\circ} 43'$ N. on the decl. arc, and observe the Sun on the meri- dian; the resulting latitude is $34^{\circ} 26'$ N., or less than 1 minute from the calculated latitude.	

From the cor. of secs. 29, 30, 31 and 32, heretofore re- described, I run, West on a random line bet. secs. 30 and 31.	
40.00	Set temp. $\frac{1}{4}$ sec. cor.
78.45	Intersect W. bdy. of Tp. 6 lks. N. of Cor. of secs. 30 and 31, of Tp. 12 N., R. 8 E., which is Post No. 56 on the W. bdy. of the Black Mesa Forest Reserve, which is an iron post, capped with brass, marked and witnessed as described in the field notes furnished by the Survey- or General. Thence I run, $178^{\circ} 57' E.$ S. $89^{\circ} 58'$ E. on a true line bet. secs. 30 and 31. Descending, through dense scrub oak and pine.
27.00	Hardscrabble Creek, 50 lks. wide, course NW.
32.00	Same Creek, 1 ch. wide, course SW. Ascend.
38.45	Set a malpais 30 x 14 x 8 ins., ²⁹ 29 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. Whence, A pine 10 ins. diam. brs. N. 16° W., 76 lks. dist., marked $\frac{1}{4}$ S 30 B T. A juniper 18 ins. diam. brs. S. 80° W., 128 lks. dist., marked $\frac{1}{4}$ S 31 B T.
39.30	Butte trail, brs. NE and SW.
40.00	Dry wash, 10 lks. wide, course NW.
54.50	Hardscrabble trail, brs. NE and SW. Thence ascend over rolling mesa.
69.00	Top of ascent. Descend through scattering pine and juniper.
78.45	The cor. of secs. 29, 30, 31 and 32. Land, mountainous and rolling. Soil, 2nd and 3rd rate, stony. Timber, pine oak and juniper. Undergrowth, scrub oak and pine.

Chains.	Land, mountainous, heavily timbered, or covered with dense undergrowth, 78.45 chs.

	From the cor. of secs. 19, 20, 29 and 30 , I run, N. 89° 52' W. on a random line bet. secs. 19 and 30. set temp. $\frac{1}{4}$ sec. cor.
40.00	
78.30	Intersect W. bdy. of Tp. 6 lks. N. of Cor. Secs. 19 & 30, which is also Post No. 57, on the W. bdy. of the Black Mesa Forest Reserve, which is an iron post, capped with brass, marked and witnessed as described in the field notes furnished by the Surveyor General. Thence I run, East on a true line bet. secs. 19 and 30. Over rolling land, through scattering juniper.
38.30	Set a malpais stone 30 x 15 x 8 ins., 2 $\frac{1}{2}$ ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on the N. face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. <u>Whence</u> , No bearings available. Pits impracticable.
62.00	Enter dense scrub oak. Ascend.
75.00	Top of slope, and begin steep descent.
78.30	Cor. of secs. 19, 20, 29 and 30. Land, mountainous and rolling. Soil, stony, 2nd and 3rd rate. Timber, pine, oak and juniper. Undergrowth, scrub oak and squaw bush. Land mountainous, heavily timbered or covered with dense undergrowth, 78.30 chs.

	From the cor. of Secs. 17, 18, 19 and 20, heretofore described, I run, West on a random line bet. secs. 18 and 19. $\frac{1}{4}$ sec. cor. temp.
40.00	
78.30	Intersect W. bdy. of TP. at cor. of secs. 18 and 19, which is also Post No. 58 of the S. bdy. of the Black Mesa Forest Reserve, which is marked and witnessed as described by the Surveyor General. Thence I run, East on a true line bet. secs. 18 and 19. Over mountainous land; descending.
12.00	Fossil Creek, ^{course} S. 30° W. 20 lks. wide, with clear running water., 8 inches deep.
18.00	Abrupt ascent of 500 feet.
38.30	Set a malpais stone 24 x 8 x 6 ins., 18 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of Cor. <u>Whence</u> , A juniper 8 ins. diam. Brs. N. 18 $\frac{1}{2}$ ° E., 78 lks. dist. marked $\frac{1}{4}$ S 18 B T. No other bearings available.
40.00	Top of cliff and descend gradually through dense mountain mahogany and scrub oak.
60.00	
78.30	To cor. of secs. 17, 18, 19 and 30. Land, mountainous. Soil, rocky, 3rd and 4th rate. Timber, pine oak and juniper. Undergrowth, scrub oak, mountain mahogany, and mescal. land mountainous, heavily timbered, or covered with dense undergrowth, 78.30 chs.

August 31, 1905.

I here discontinue the subdivision of this Tp. there being no further agricultural lands that could be included.

GENERAL DESCRIPTION.

The land in this Tp. is in general broken and mountainous in the southern portion, the northern portion being high rolling mesa, heavily timbered, broken to the East and West by gulches running into Pine and Strawberry Creeks, respectively.

The soil in the narrow creek valleys is a rich loam, very fertile, sandy in places.

Pine, a village of about 100 inhabitants, regularly laid out, is situated in the North half of sec. 36. There are about 12 families in the village, each of whom occupy well built houses, with out-houses, and cultivate certain small tracts of land in secs. 25, 26, 35 and 36. The location of these houses as shown in plat was actually made by special tie line.

In Strawberry Creek valley the settlers are more scattered. James Lozear, in Sec. 22, occupies and cultivates about 40 acres of improved land. A. B. Peach, in Sec. 22, occupies and cultivates about 40 acres of improved land. He also cultivates about 80 acres of improved land in Sec. 21. Jas. Hopkins, in Sec. 28, occupies and cultivates about 80 acres of improved land. Mrs. Lethian, in Sec. 29, has well improved buildings, and occupies and cultivates about 100 acres of improved land, and about 40 acres of improved land in Sec. 20. D. F. Jones in Sec. 33, occupies and cultivates about 40 acres of improved land. *Fuller is situated in secs. 27 and 28 and*

and M. and Hopkins in Sec. 29.
This entire township is well timbered, and watered by Strawberry Creek in the S.W., which has a general course to the West, and by Pine Creek in the Eastern part, general course Southerly.

James Wright
N. S. Dep. Secy.

LIST OF NAMES.

A list of the names of the individuals employed by

Joseph B Wright

a

, 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

Subst of

Trac Trs 12 North Rys 8 & 9 East

showing the respective capacities in which they acted:

Joseph R Cook

, Chainman.

Arthur Pogue

, Chainman.

Harry Malloy

, Moundman.

Hugh Fuller

, Moundman.

William Beach

, Axman.

William Edmunds

, Axman.

Julian Jernigan

, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted

Joseph B Wright

a

, United States Deputy Surveyor, in surveying all

those parts or portions of the

Subst of Trac Trs 12 North Rys 8 & 9 East

of the

Salt River

Meridian, *Terrestrial* 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

Joseph R Cook ✓

, Chainman.

Arthur Pogue ✓

, Chainman.

Harry Malloy ✓

, Moundman.

Hugh Fuller ✓

, Moundman.

William Edmunds ✓

, Axman.

William Beach ✓

, Axman.

Julian Jernigan ✓

, Flagman.

Subscribed and sworn to before me this *20th*

day of *Oct* 1905, 189

W. G. Power



FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Jesse B. Wright, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Frank J. Gagnall United States Surveyor General for Arizona, bearing date of the 26th day of May 1905, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Arizona, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of The Sub of

Trac 122 North Range 1898

of the Gila Salt

Base Line meridian, in the Territory of Arizona, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Arizona and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Jesse B. Wright
United States Deputy Surveyor.

Subscribed by said Jesse B. Wright, and sworn to before me }
this 1st day of November, 1905.



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

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Ar, Jan 23rd 1907

The foregoing field notes of the survey of the subdivisional lines of
T 12 N R 18 E of the Gila and Salt River Base and
Meridian, territory of Arizona

executed by Jesse B. Wright U. S. Deputy Surveyor
under his contract No. 133, dated May 26th 1905, having been
critically examined, and the necessary corrections and explanations made, the said field notes, and the
surveys they describe, are hereby approved.

Frank J. Gagnall
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.