Field Notes 1

of the survey of the

Subdivision Lines

of

Township 18 North Range 1 East

of the

Gila and Salt River

Base and Meridian

in the

Territory of Arizona

as surveyed by

John D. Hesse

U.S. Deputy Surveyor

Under his contract No. 103

Dated September 27, 1902

Survey commenced

February 8th 1903

Survey completed

February 18th 1903

IA

Names and duties of Assistants
Russel E. Stone   Chainman
Willam O. Grimes   Chainman
Reuben W. Dewitt   Axman
Joe O. Landers.   Flagman

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T.18N.R.1E.

Subdivision of Tp. 18 N. Rg. 1 E.

chains

Survey commenced February 7, 1903 and executed with a J. C. Sala light mountain transit, with solar attachment. Transit not numbered. 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 find them correct; then to test the solar apparatus, by comparing its indications resulting from solar

Subdivision of Tp. 18 N. Rg. 1 E.

chains

observations made during
a.m. and p.m. hours,
with a meridian determined

1D

February 7: At the cov. of
secs. 35 and 36 on S. bdy.
of Tp. I set off 15° 28' S.
on the decl. arc; and
observe the sun on the
meridian at noon; the
resulting lat. is 34° 55' N.

by observations on Polaris.
I proceed as follows;
At the cor. of secs. 35 and
36 on S. bdy. of Tp.; latitude
34° 55' 12" N. & longitude
112° 12' 06" W.; I set off 34°
55' N., on the lat. arc;
15° 23' S. on the decl. arc;
and, at 4ʰ 00ᵐ p. m. l. m. t.,
determine with the solar
a meridian and mark a
point thereof, on a stone
firmly set in the ground,
5 chs. N. of the cor.
At 10ᵗ 12.81 p. m. by my
watch, which has correct

Subdivision of Tp. 18 N. Rg. 1 E.

Chains

c. m. t., I observe Polaris at
western elongation, in
accordance with Manual
of Instructions, and mark
a point in the line thus
determined, on a stake
driven in the ground 5
chs. N. of my station

February 7, 1903

February 8, 1903; At 7 a. m. c.
m. t. I lay off the azimuth
of Polaris 1°29'/ to the east
and mark the meridian
thus determined, by cut-
ting a small grove in
the stone set February 7.
on which the meridian

Subdivision of Tp. 18 N. Rg. 1 E.

coincides with the mark
determined by the solar.
At 7.30 a.m. l.m.t., I set
off 34°55' N! on the lat. arc.;
15°10' S. on the decl. arc;
and mark a point in the
meridian determined with
the solar, by a cross on
the stone already set 5 chs.
N. of my station; this mark
falls on the meridian es-
tablished by the Polaris ob-
servation.
The solar apparatus, by
p.m. and a.m. observations,
defines positions for
meridians which coincide
with the meridian estab-
lished by the Polaris

Subdivision of Tp. 18 N. Rg. 1 E.

chains

observations; therefore I
conclude that the adjust-
ments of the instrument
are satisfactory.

The magnetic bearing of
the true meridian, at 7:45
a. m., is N. 14° 06' W.; the
angle thus determined
gives the mag. decl. 14° 06'
E.

Subdivisions Tp. 18 N. Rg. 1 E.

chains

February 8: At $8^h 00^m$ a. m.
l. m. t. I set off 55° 06' N
for my co-latitude; 15°
11' S. for my declination
and determine a true
meridian with the
solar at the cor. of secs.
1, 2, 35 and 36.

    Thence I run
N. 0° 01' W. bet. secs 35 and
36
Descending over rough
mountains through
scattering cedar timber

21.50   Descend steep slope to
Verde River

22.86   Right bank of Verde
River, course E.

25.60   Left bank of Verde River
and ascend over rolling

Subdivisions of Tp. 18 N. Rg. 1 E.

chains

	mountains
26.70	Cross wash, course S.W.
40.00	Point for 1/4 sec. cor. falls on a rock in place 3 X 1 1/2 X 1 1/2 feet above ground; I mark a cross + at exact pt. for 1/4 sec. cor. and 1/4 W. of cross; from which

A __cedar__, 14 ins. diam. bears S. 56 1/4° E. __38__ lks. dist. marked __1/4 S 36 BT__

A __cedar__, 3 ins. diam. bears S. 61 1/2° W. __41__ lks. dist. marked __1/4 S 35 BT__

52.00	Ascend steep S. slope
56.00	Top of mountain and over rolling mountain top.
80.00	Set a __sand__ stone 18 x 12 x 5 ins, 12 ins. in the ground for cor. of secs. 25, 26, 35 and 36; marked with 1 notches on S and 1 notches on E edges; dug pits 18 x 18 x 12 ins. in each sec. 5 1/2 ft. dist.; and raised a mound of earth 4 ft. base 2 ft. high W. of cor.

Subdivision of Tp. 18 N. Rg. 1 E.

chains

Land, mountainous

Soil, rocky; 4th rate.

Timber, cedar.

Mountainous land 80.00 chs.

East on a random line bet. secs. 25 and 36

40.00 Set temp. 1/4 sec. cor.

79.96 Intersect E. bdy. of Tp. at cor. of secs. 25, 30, 31 and 36

Thence I run

West on a true line bet. secs. 25 and 36.

Over rolling mountains.

2.40 Cross wash, course S.E.

8.30 Cross wash, course S.E.

34.80 Cross road, bears N.W. and S.E.

Subdivision of Tp. 18 N. Rg. 1 E.

Chains

38.70   Cross wash course S. E.
and ascend steep E. slope.

39.98   Set a malpais stone 18 x 12 x 10 ins. in
a mound of stone for 1/4
sec. cor., marked 1/4 on N.
face; and raised a
mound of stone 2 ft. base
1 1/2 ft. high, N. of cor.

44.00   Top of mountain and over
rough mountain top.

55.00   Descend steep W. slope

65.00   Cross wash course S.
and ascend.

79.96   The cor. of secs. 25, 26, 35
and 36.

Land, rough and mountainous
Soil, rocky; 4th rate.
No timber.
Mountainous land 79.96
chains.

Subdivision of Tp. 18 N. Rg. 1 E.

Chains

N. 0°01'W. bet. secs. 25 and 26

Ascending over rough
mountains thro scattering
cedar timber.

10.50 Cross wash in cañon;
course S. W.

40.00 Set a _line_ stone 16 x 12 x 6 ins, in a
mound of stone for ¼ sec.
cor. marked ¼ on W.
face; and raised a
mound of stone 2 ft.
base 1½ ft. high, W. of
cor.; Pits impracticable

60.75 Cross wash, course S. E.

70.50 Cross wash, course E.

80.00 Set a _malpais_ stone 18 x 8 x 3 ins. 12
ins. in the ground for cor. of
secs. 23, 24, 25 and 26 marked with 1 notches
on E and 2 notches on S. edges; from which

Subdivision of Tp. 18 N. Rg. 1 E.

Chains	
	A <u>cedar</u>, 5 ins. diam. bears N 67° E.
	<u>134</u> lks. dist. marked T 18 N R 1 E
	S 24 B T
	A <u>cedar</u>, 12 ins. diam. bears S 78½° E.
	<u>279</u> lks. dist. marked T 18 N R 1 E
	S 25 B T
	A <u>cedar</u>, 6 ins. diam. bears S 23½° W.
	<u>121</u> lks. dist. marked T 18 N R 1 E
	S 26 B T
	No other tree available &
	raised a md of stone 2 ft. base 1½ ft high W. of cor
	Land, mountainous
	Soil, rocky; 4th rate.
	Timber cedar.
	Mountainous land 80.00
	chs.
	East on a random line
	bet. secs. 24 and 25
40.00	Set temp ¼ sec. cor.
79.80	Intersect E. bdy. of Tp.
	5 lks. S. of cor. of secs.
	19, 24, 25 and 30

Subdivision of Tp. 18 N. Rg. 1 E.

Chains	
	Thence I run S 89°58' W. on a true line bet. secs. 24 and 25 Over rolling mountain top.
17.10	Cross road, bears N. and S. and through scattering timber
38.50	Cross wash course N. W.
39.90	Set a Malpais stone 16 x 12 x 4 ins. in a mound of stone for ¼ sec. cor.; marked ¼ on N. face; from which A cedar 8 ins. diam. bears N. 40° E. 16 lks. marked ¼ S 24 B T A cedar 10 ins. diam. bears S. 22½° E. 29 lks. marked ¼ S 25 B T
49.55	Cross wash course S. W.
50.50	Cross same wash, course N. W.
51.60	Cross wash course S. bears N. W. and ascend.
79.80	The cor. of secs. 23, 24, 25 and 26.

Subdivision of Tp. 18 N. Rg. 1 E.

chains	
	Land, mountainous
	Soil, rocky; 4$\frac{th}{}$ rate.
	Timber, cedar.
	Mountainous land 79.80
	chs.
	N. 0° 01′ W. bet secs. 23 and 24
	Ascending over mountain
	top through scattering
	cedar timber.
15.30	Cross wash, course S.E.
40.00	Set a lime stone 16 x 10 x 8 ins. 11 ins. in the ground for ¼ sec. cor.; marked ¼ on W face; from which
	A cedar 16 ins. diam. bears S. 42½° E. 50 lks. marked ¼ S 24 B T
	A cedar 10 ins. diam. bears N. 39° W. 45 lks. marked ¼ S 23 B T
80.00	Set a malpais stone 18 x 10 x 4 ins. 12 ins in the ground for cor. of secs. 13, 14, 23 and 24, marked with 1 notches on E and 3 notches on S. edges; from which

Subdivision of Tp. 18 N. Rg. 1 E.

Chains	
	A cedar, 6 ins. diam. bears N 87° E.
	153 lks. dist. marked T 18 N R 1 E
	S 13 B T
	A cedar, 10 ins. diam. bears S 63° E.
	113 lks. dist. marked T 18 N R 1 E
	S 24 B T
	A cedar, 6 ins. diam. bears S 7½° W.
	165 lks. dist. marked T 18 N R 1 E
	S 23 B T
	A cedar, 14 ins. diam. bears N 74½° W.
	106 lks. dist. marked T 18 N R 1 E
	S 14 B T

Land, mountainous
Soil rocky and gravelly;
4th rate.
Timber cedar.
Mountainous land
80.00 chs.

	N. 89° 58' E. on a random line
	bet. secs. 13 and 24
40.00	Set temp ¼ sec. cor.
79.78	Intersect E. bdy. of Tp.

Subdivision of Tp. 18 N. Rg. 1 E.

Chains	
	10 lks. S. of cor. of secs 13, 18, 19 and 24
	Thence I run S. 89°54' W. on a true line bet. secs. 13 and 24
00.30	Cross wash, course S.E.
30.88	Cross road, bears N.W. and S.E.
39.89	Set a line stone 14 × 12 × 8 ins. 10 ins. in the ground for ¼ sec. cor.; marked ¼ on N. face; from which A cedar 12 ins. diam. bears N. 59° E. 106 lks. marked ¼ S 13 B T A cedar 8 ins. diam. bears S. 45° E. 76 lks. marked ¼ S 24 B T
57.78	Descend abruptly into cañon
62.80	Cross wash, course S. and ascend.
69.50	Top and over rolling mountain top.
79.78	The cor. of secs. 13, 14, 23 and 24. Land, mountainous

Subdivision of Tp. 18 N. Rg. 1 E.

chains

Soil, rocky; 4th rate.
Timber, scattering cedars.
Mountainous land 79.78
chs.

February 8, 1903

February 9: At 8h 00m a. m.
l. m. t., I set off 55° 03' N
for my co-latitude; 14° 52' V
S. for my declination
and determine a true
meridian with the
solar at the cor. of
secs 13, 14, 23 and 24
    Thence I run
N. 0° 01' W. bet. secs. 13 and 14
Over rolling mountains
through cedar timber.

40.00   Set a lime stone 16 x 10 x 6 ins. in

Subdivision of Tp. 18 N. Rg. 1 E.

chains	
	a mound of stone for ¼ sec. cor.; marked ¼ on W. face; from which
	A cedar 8 ins. diam. bears S. 38° E. 63 lks. marked ¼ S 13 B T
	A cedar 12 ins. diam. bears S 20° W. 16 lks. marked ¼ S 14 B T
80.00	Set a malpais stone 16 x 10 x 6 ins. 10 ins. in the ground for cor. of secs. 11, 12, 13 and 14, marked w 1 notches on E and 4 notches on S. edges; from which
	A cedar 10 ins. diam. bears N 71¼ E. 109 lks. dist. marked T 18 N R 1 E S 12 B T
	A cedar 10 ins. diam. bears S 54¾° E. 55 lks. dist. marked T 18 N R 1 E S 13 B T
	A cedar 15 ins. diam. bears S 6° W. 156 lks. dist. marked T 18 N R 1 E S 14 B T
	A cedar 6 ins. diam. bears N 56¼° W. 231 lks. dist. marked T 18 N R 1 E S 11 B T

Land, mountainous

Soil, rocky and gravelly;

4th rate

Timber cedar.

Mountainous or heavily

Subdivision of Tp. 18 N. Rg. 1 E.

Chains	
	timbered land 80.00 chs.

	N. 89°54' E. on a random line bet. secs. 12 and 13.
40.00	Set temp ¼ sec. cor.
79.74	Intersect E. bdy. of Tp. at cor. of secs. 7, 12, 13 and 18.

Thence I run

S. 89°54' W. on a true line bet. secs. 12 and 13

Over rolling mountains through cedar timber.

39.87	Set a line stone 16 x 10 x 8 ins. in a mound of stone for ¼ sec. cor.; marked ¼ on N. face; from which

A cedar 10 ins. diam. bears S 58½° E. 52 lks. marked ¼ S 13 B T

A cedar 10 ins. diam. bears N 51° W. 80 lks. marked ¼ S 12 B T

Subdivision of Tp. 18 N. Rg. 1 E.

chains

53.50	Cross wash in cañon course S.
71.70	Cross road, bears N. and S.
79.74	The cor. of secs. 11, 12, 13 and 14.

Land, mountainous
Soil, rocky; 4th rate.
Timber, cedar.
Mountainous or heavily
timbered lands 79.74 chs.

N 0° 01' W. bet. secs. 11 and 12
Over rolling mountains
through cedar timber

1.00	Cross wash course S.W.
8.35	Cross road, bears N.E. and S.W.
19.40	Cross wash, course W.
35.80	Cross wash, course S.W

Subdivision of Tp. 18 N. Rg. 1 E.

chains

40.00	Set a malpais stone 18 x 8 x 3 ins. 12 ins. in the ground for ¼ sec. cor.; marked ¼ on W face; from which A cedar 12 ins. diam. bears N. 87½° W 64 lks. marked ¼ S ″ BT a cedar 6 ins. diam. bears S 52½° E. 71 lks. marked ¼ S 12 BT
65.20	Cross wash, course S.W.
80.00	Set a malpais stone 18 x 10 x 3 ins. set in a mound of stone for cor. of secs. 1, 2, 11 and 12, marked with 5 notches on S and 1 notches on E. edges; from which A cedar, 16 ins. diam. bears N 57¾° E. 38 lks. dist. marked T 18 N R 1 E S 1 BT A cedar, 6 ins. diam. bears S 57° E. 43 lks. dist. marked T 18 N R 1 E S 12 BT A cedar, 6 ins. diam. bears S 10½° W. 57 lks. dist. marked T 18 N R 1 E S 11 BT A cedar, 6 ins. diam. bears N 12¾° W. 24 lks. dist. marked T 18 N R 1 E S 2 BT

Land, mountainous

Soil, rocky; 4 rate

Subdivision of Tp. 18 N. Rg. 1 E.

chains	
	Timber, cedar.
	Mountainous or heavily
	timbered land 80.00 chs.

———————————

	N. 89° 54' E. on a random
	line bet. secs. 1 and 12
40.00	Set temp. ¼ sec. cor.
79.65	Intersect E. bdy. of Tp.
	5 lks. N. of cor. of secs.
	1, 6, 7 and 12
	Thence I run
	S. 89° 56' W. on a true line
	bet. secs. 1 and 12.
	Over rolling mountains
	through cedar timber.
15.00	Cross wash, course S.
32.00	Timber becomes scattering
39.825	Set a malpais stone 18 x 6 x 6 ins. 12
	ins. in the ground

Subdivision of Tp. 18 N. Rg. 1 E.

Chains		for ¼ sec.

cor.; marked ¼ on **N** face; from which

A _cedar_ 16 ins. diam. bears **S 29¼° E.**

225 lks. marked ¼ S **12** B T

A _cedar_ 6 ins. diam. bears **N 21½ E.**

272 lks. marked ¼ S **1** B T

49.00	Timber becomes heavy
74.15	Cross wash, course S.
79.65	The cor. of secs. 1, 2, 11 and 12.

Land mountainous

Soil, rocky; 4th rate

Timber cedar.

Mountainous or heavily

timbered land 79.65 chs.

N. 0° 01' W. bet. secs. 1 and 2.

on a random line.

40.00	Set temp ¼ sec. cor.
57.55	Intersect N. bdy of Tp.

28 lks E. of cor. of secs.

1 and 2

Subdivision of Tp. 18 N. Rg. 1 E.

chains	
	Thence I run
	S. 0° 17' E. bet secs. 1 and 2
	on a true line
17.55	Set a malpais stone 16 x 12 x 8 ins. 11
	ins. in the ground for ¼ sec.
	cor.; marked ¼ on W face; from which
	A cedar 6 ins. diam. bears S 84¾° E.
	55 lks. marked ¼ S 1 B T
	A cedar 12 ins. diam. bears S 59° W
	11 lks. marked ¼ S 2 B T
31.25	Cross wash, course S. E.
39.35	Cross same wash course S. W.
57.55	The cor. of secs 1, 2, 11 and 12.
	Land, mountainous
	Soil, rocky; 4th rate
	Timber, cedar.
	Mountainous and heavily
	timbered land 57.55 chs.
	February 9, 1903

Subdivision of Tp. 18 N. Rg. 1 E.

chains	
	February 10: At 8ʰ 00ᵐ a.m. l.m.t. I set off 55° 06' N for my co-latitude; 14° 33' S. for my declination and determine a true meridian with the solar at the cor. of secs. 2, 3, 34 and 35 on the S. bdy. of Tp.
	Thence I run N. 0° 01' W. bet. secs. 34 and 35
	Descending over rolling mountains through scattering cedar timber
14.35	Cross wash, course N.E.
40.00	Set a lime stone 18 x 10 x 8 ins. in a mound of stone for ¼ sec. cor. marked ¼ on W. face; and

Subdivision of Tp. 18 N. Rg. 1 E.

Chains

	raised a mound of stone 2 ft. base 1½ ft. high, W. of cor.; Pits impracticable.
44.70	Cross wash, course N. E.
74.00	Descend steep bluff.
75.55	Foot of bluff and right bank of Verde River, course S. E.
79.50	Left bank Verde River.
80.00	Set a sandstone 18 x 10 x 4 ins, 12 ins. in the ground for cor. of secs. 26, 27, 34 and 35; marked with 1 notch on S and 2 notches on E edges; dug pits 18 x 18 x 12 ins. in each sec. 5½ ft. dist.; and raised a mound of earth 4 ft. base 2 ft. high W of cor.
.	Land, mountainous
:	Soil, rocky; 4th rate
.	Timber, cedar.
	Mountainous land 80.00 chains.

Subdivision of Tp. 18 N. Rg. 1 E.

chains

	East on a random line
	bet. secs. 26 and 35
40.00	Set temp ¼ sec. cor.
79.95	Intersect N. and S.
	line at cor. of secs.
	25, 26, 35 and 36.
	Thence I run
	West on a true line
	bet. secs. 26 and 35
	Over rough mountain
	top
3.00	Enter scattering timber
16.00	Top bluff 75 ft. high
17.00	Cross wash in cañon
	@ S. and asc. over
	rolling mountains.
18.00	Top bluff.
25.85	Cross wash course S.

Subdivision of Tp. 18 N. Rg. 1 E.

Chains	
37.50	Cross wash in deep cañon course S.W.
39.975	Set a ~line~ stone 18 x 12 x 8 ins. in a mound of stone for 1/4 sec. cor. marked 1/4 on N. face; and raised a mound of stone 2 ft base 1½ ft. high N. of cor. Pits impracticable
51.70	Cross wash in cañon course S.
66.15	Cross wash in cañon course S.
74.50	Descend steep bluff.
77.20	Cross wash, course S.
79.95	The cor. of secs 26, 27, 34 and 35

Land, rough and mountainous

Soil, rocky; 4th rate

Timber, cedar

Sub-division of Tp. 18 N. Rg. 1 E.

chains	
	Mountainous land, 79. 95 chains.

N. 0°01′ W. bet. secs. 26 and 27
Ascending over rough, broken mountains.

1.35	Top bluff 30 ft. high
10.00	Enter scattering timber
40.00	Set a lime stone 18 x 8 x 4 ins. in a mound of stone for ¼ sec. cor.; marked ¼ on W. face; from which

A cedar 6 ins. diam. bears S. 50° E.
9 lks. marked ¼ S 26 B T
A cedar 6 ins. diam. bears N. 4½° W
16 lks. marked ¼ S 27 B T

44.30	Cross wash course S. W. and ascend steep S. slope.
61.00	Top of mountain and over rolling mountain top
80.00	Set a malpais stone 16 x 8 x 4 ins. 11

Sub division of Tp. 18 N. Rg. 16

chains

ins. in the ground for cor. of
secs. 22, 23, 26 and 27, marked with 2 notches
on S and 2 notches on E edges; from which
A cedar, 10 ins. diam. bears S 41¼° E.
264 lks. dist. marked T 18 N R 1 E
S 26 B T
A cedar, 6 ins. diam. bears S 21¾° W
220 lks. dist. marked T 18 N R 1 E
S 27 B T
and dug pits 18 X
18 X 12 ins. N.E. and N.W.
of cor. 5½ ft. dist; and
raised a mound of
earth 4 ft. base 2 ft. high
W. of cor.
Land, mountainous
Soil, rocky; 4th rate
Timber, cedar.
Mountainous land
80.00 chs.

East on a random line

Subdivision of Tp. 18 N. Rg. 1 E.

chains	
	bet. secs. 23 and 26
40.00	Set temp. 1/4 sec. cor.
79.80	Intersect N. and S. line 5 lks. S. of cor. of secs. 23, 24, 25 and 26.
	Thence I run S. 89°58' W. on a true line bet. secs. 23 and 26 Over rolling mountains through very scattering cedar timber.
24.60	Cross wash, course S.
39.90	Set a malpais stone 16 x 12 x 12 ins. 11 ins. in the ground for 1/4 sec. cor.; marked 1/4 on N face; from which
	A cedar 6 ins. diam. bears N 25 1/4° W 39 lks. marked 1/4 S 23 B T
	A cedar 6 ins. diam. bears S 30 3/4° E. 46 lks. marked 1/4 S 26 B T
79.80	The cor. of secs. 22, 23, 26 and 27. Land mountainous

Subdivision of Tp. 18 N. Rg. 1 E.

chains

Soil, rocky; 4th rate
Timber, cedar.
Mountainous land
79.80 chs.

N. 0°01'W. bet. secs. 22 and 23
Over rolling mountain
top through scattering
cedar timber.

40.00 Set a melfais stone 14 x 10 x 6 ins. 10
ins. in the ground for ¼ sec.
cor.; marked ¼ on W face; dug pits 18 x 18 x 12
ins. N and S of cor. 3 ft. dist.; and raised a
mound of earth 3½ ft. base, 1½ ft. high W of cor.

61.00 Cross wash in cañon, course
S.W

80.00 Set a sand stone 18 x 10 x 4 ins. in
a mound of stone for cor. of
secs. 14, 15, 22 and 23, marked with 3 notches
on S and 2 notches on E edges; from which

Subdivision of Tp. 18 N. Rg. 1 E.

chains

A cedar, 6 ins. diam. bears N 42¼° E.
66 lks. dist. marked T 18 N R 1 E
S 14 B T

A cedar, 6 ins. diam. bears S 39° E.
203 lks. dist. marked T 18 N R 1 E
S 23 B T

A cedar, 12 ins. diam. bears S 28¾° W.
193 lks. dist. marked T 18 N R 1 E
S 22 B T

A cedar, 18 ins. diam. bears N 33° W
98 lks. dist. marked T 18 N R 1 E
S 15 B T

Land, mountainous
Soil, rocky and gravelly;
4th rate
Timber cedar.
Mountainous land
80.00 chains.

N 89° 58' E. on a random
line bet. secs. 14 and 23
40.00   Set temp. ¼ sec. cor.

Subdivision of Tp. 18 N. Rg. 1 E.

chains	
79.60	Intersect N. and S. line 16 chs. N. of cor. of secs. 13, 14, 23 and 24

Thence I run N. 89° 55' W. on a true line bet. secs. 14 and 23

Over rolling top of mountains through cedar timber

39.80	Set a sand stone 18 x 8 x 3 ins. 12 ins. in the ground for ¼ sec. cor.; marked ¼ on N. face; from which A cedar 6 ins. diam. bears S. 65° E. 127 lks. marked ¼ S 23 B T A cedar 6 ins. diam. bears N 32½° W 43 lks. marked ¼ S 14 B T
51.20	Cross wash, course S. W.
72.00	Cross wash, course S. W.
79.60	The cor. of secs. 14, 15, 22 and 23.

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

Subdivision of Tp. 18 N. Rg. 1 E.

chains

Timber, cedar.

Mountainous or heavily
timbered land 80.00
~~79.60~~
chains.

February 10, 1903.

February 11: At 8^h 00^m a. m.
l. m. t. I set off 55° 03' N
for my co-latitude; 14° 13' V
S. for my declination;
and determine a true
meridian with the
solar at the cor. of
secs. 14, 15, 22 and 23

Thence I run
N. 0° 01' W. bet. secs. 14 and 15
Ascending over rough
broken mountains
through scattering

Subdivision of Tp. 18 N. Rg. 1 E.

Chains

	cedar timber.
20.00	Cross wash in cañon, cours. S.W. and ascend
30.00	Along W. slope of mountain
40.00	Set a sand stone 20 x 15 x 6 ins. in a mound of stone for ¼ sec. cor.; marked ¼ on W face; from which

A cedar 10 ins. diam. bears N. 86° W. 67 lks. marked ¼ S 15 B T

A cedar 10 ins. diam. bears N 86° E. 136 lks. marked ¼ S 14 B T

| 59.00 | Over rolling mountain top. |
| 80.00 | Set a malpais stone 10 x 10 x 6 ins. 15 ins. in the ground for cor. of secs. 10, 11, 14 and 15, marked with 4 notches on S and 2 notches on E edges; from which |

A cedar, 6 ins. diam. bears N 63¼° E. 15 lks. dist. marked T 18 N R 1 E S 11 B T

A cedar 10 ins. diam. bears S 32¼° E. 113 lks. dist. marked T 18 N R 1 E S 14 B T

A cedar, 10 ins. diam. bears S 59° W. 53 lks. dist. marked T 18 N R 1 E S 15 B T & raised a md of stone 2 ft. base 1½ ft. high W. of cor. Pits impracticable

Subdivision of Tp. 18 N. Rg. 1 E.

chains	
	Land, mountainous
	Soil, rocky; 4th rate
	Timber, cedar.
	Mountainous land
	80.00 chs.

	S. 89° 55' E. on a random line
	bet. secs. 11 and 14
40.00	Set temp. 1/4 sec. cor.
79.68	Intersect N. and S. line
	21 lks. S. of cor. of secs.
	11, 12, 13 and 14.
	Thence I run
	S. 89° 56' W
	S. 89° 54' W. on a true line
	bet. secs. 11 and 14.
	Over rolling mountains
2.40	Cross wash, course S.W.
4.00	Enter cedar timber
37.70	Cross wash, course S.W.

Subdivision of Tp. 18 N. Rg. 1 E.

chains

39.84	Set a sand stone 16 x 8 x 3 ins. 11 ins. in the ground for ¼ sec. cor.; marked ¼ on N. face; from which

A cedar 18 ins. diam. bears N. 66° W.
55 lks. marked ¼ S 11 B T
A cedar 30 ins. diam. bears S. 22° W.
76 lks. marked ¼ S 14 B T

49.80	Cross wash, course S. E.
63.30	Cross wash, course S.
79.68	The cor. of secs. 10, 11, 14 and 15

Land, mountainous.

Soil, rocky and gravelly;
4th rate.

Timber, cedar.

Mountainous or heavily
timbered land 79.68 chains

N. 0° 01' W. bet. secs. 10 and 11
Over rolling mountains
through cedar timber

33.75	Cross wash, course S. W.

Subdivision of Tp. 18 N. Rg. 1 E.

chains

	and leave timber
40.00	Set a malpais stone 18 x 10 x 5 ins. in a mound of stone for 1/4 sec. cor. marked 1/4 on W. face; and raised a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. Pits impracticable
54.80	Cross road bears N.E. and S.W.
80.00	Set a malpais stone 18 x 12 x 8 ins, 12 ins. in the ground for cor. of secs. 2, 3, 10 and 11, marked with 5 notches on S and 2 notches on E edges; and raised a mound of stone 2 ft. base 1 1/2 ft. high, W. of cor. Pits impracticable

Land, mountainous
Soil, rocky and gravelly;

Subdivision of Tp. 18 N. Rg. 1 E.

chains	
	4th rate.
	Timber, cedar.
	Mountainous land
	80.00 chains.

	89° 56
N 89. 56 E	N. 89° 54' E. on a random line
	bet. secs. 2 and 11
40.00	Set temp 1/4 sec. cor.
79.65	Intersect N. and S. line
	14 chs. N. of cor. of secs.
	1, 2, 11 and 12
	Thence I run
	N. 89° 58' W. on a true line
	bet. secs. 2 and 11
	Over rolling mountains
	through cedar timber.
13.35	Cross wash, course S.
15.30	Cross wash, course S. E.
39.825	Set a malpais stone 16 x 12 x 10 ins. 11

Subdivision of Tp. 18 N. Rg. 1 E.

Chains	
	ins. in the ground for ¼ se
	cor.; marked ¼ on N face; from which
	A cedar 15 ins. diam. bears S. 78¼° E
	29 lks. marked ¼ S 11 B T
	A cedar 12 ins. diam. bears N 36½ W
	36 lks. marked ¼ S 2 B T
61.85	Cross wash in cañon, course
	S.
79.65	The cor. of secs. 2, 3, 10 and
	11
	Land, mountainous
	Soil, rocky; 4th rate.
	Timber, cedar.
	Mountainous or heavily
	timbered land 79.65 chs.
	N. 0° 01' W. bet. secs. 2 and 3.
	Ascending through scatter-
	ing cedar timber
40.00	Set a malpais stone 18 x 6 x 4 ins, 12
	ins. in the ground

Subdivision of Tp. 18 N. Rg. 1 E.

chains

for ¼ sec.

cor.; marked ¼ on W face; from which

A cedar 8 ins. diam. bears S 82° E

57 lks. marked ¼ S 2 B T

A cedar 8 ins. diam. bears N 69¾° W.

40 lks. marked ¼ S 3 B T

57.04 Intersect S. bdy. of

Tp. 19 N. Rg. 1 E. 4.92 chs.

East of ¼ sec. cor. on

S. bdy. of sec. 36 .

Set a malpais stone 18 x 6 x 6 ins, in

a mound of stone for cor. of

secs. , 2 , and 3 marked 4 notches

on W and 2 notches on E. faces, from which

A cedar , 15 ins. diam. bears S 69½° E.

122 lks. dist. marked T 18 N R 1 E

S 2 B T

A cedar , 8 ins. diam. bears S 60½° W.

57 lks. dist. marked T 18 N R 1 E

S 3 B T

Land, mountainous

Soil, rocky; 4th rate.

Timber, cedar .

Mountainous land

Subdivision of Tp. 18 N. Rg. 1 E.

chains	
	57. 04 chains .

February 11, 1903.

February 12: At 8^h 00^m a. m. l. m. t. I set off 55° 06' N for my co-latitude; 13° 53' S. for my declination; and determine a true meridian with the solar at the cor. of secs. 3, 4, 33 and 34 on S. bdy. of Tp.

Thence I run N. 0° 02' W. bet. secs. 33 and 34.

Descending over rolling mountains through scattering cedar timber.

| 40.00 | Set a lime stone 18 x 10 x 5 Ins. 12 ins. in the ground |

Subdivision of Tp. 18 N. Rg. 1 E.

chains

for ¼ sec.

cor.; marked ¼ on _W_ face; from which
A _cedar_ 12 ins. diam. bears S. 37½° E.
147 lks. marked ¼ S 34 B T
A _cedar_ 10 ins. diam. bears N. 64° W.
138 lks. marked ¼ S 33 B T

80.00 | Set a _lime_ stone 18 x 8 x 8 ins. 12
ins. in the ground for cor. of
secs. 27, 28, 33 and 34, marked with 1 notches
on S and 3 notches on E edges; from which
A _cedar_, 8 ins. diam. bears N 56½° E.
249 lks. dist. marked T 18 N R 1 E
S 27 B T
A _cedar_, 6 ins. diam. bears N 59° W.
110 lks. dist. marked T 18 N R 1 E
S 28 B T ;
and raised a
mound of stone 2 ft. base
1½ ft. high, W. of cor.
Pits impracticable
Land mountainous
Soil, rocky and gravelly;
4th rate.
Timber, cedar.

Subdivision of Tp. 18 N. Rg. 1 E.

chains

Mountainous land 80.00
chains.

_____

East on a random line
bet secs 27 and 34

40.00 Set temp. ¼ sec. cor.

80.10 Intersect N. and S. line
at cor. of secs. 26, 27, 34 and
35.

Thence I run
West on a true line bet.
secs. 27 and 34.
Over rough river bottom

1.00 Left bank of Verde River
course S.E.

7.00 Right bank Verde River
and ascend steep bluff.

8.00 Top and over rough broken
mountains through

Subdivision of Tp. 18 N. Rg. 1 E.

chains

	scattering cedar timber
32.70	Cross wash, course N.
40.05	Set a _line_ stone 16 x 10 x 3 ins. in a mound of stone for ¼ sec. cor.; marked ¼ on N. face; from which

A _cedar_ 6 ins. diam. bears N 77° E. 93 lks. marked ¼ S 27 B T

A _cedar_ 10 ins. diam. bears S 7° W. 122 lks. marked ¼ S 34 B T

60.20	Cross wash, course N. W.
76.20	Cross wash, course N. E.
80.10	The cor. of secs. 27, 28, 33 and 34.

Land, mountainous

Soil, rocky; 4th rate.

Timber, cedar.

Mountainous land

80.10 chs.

N. 0°02' W. bet. secs. 27 and 28

Descending over rolling

Subdivision of Tp. 18 N. Rg. 1 E.

Chains	
	mountains through scattering cedar timber .
14.00	Descend steep bluff.
20.00	Cross Verde River 1.00 chn. wide course S.E. and ascend.
22.00	Top bluff and ascend over rolling mountains .
40.00	Set a lime stone 18 x 10 x 3 ins. 12 ins. in the ground for ¼ sec. cor.; marked ¼ on W. face; from which
	A cedar 6 ins. diam. bears S 21° E. 258 lks. marked ¼ S 27 B T
	A cedar 6 ins. diam. bears N 21½° W. 57 lks. marked ¼ S 28 B T
43.50	A point 30 ft. East of a shaft 75 ft. deep.
59.50	Cross wash, course S. W.
69.50	Cross wash, course S. W.
72.00	Leave timber and ascend steep S. slope
80.00	Set a malpais stone 20 x 12 x 3 ins. 15

Subdivision of Tp. 18 N. Rg. 1 E.

chains	
	ins. in the ground for cor. of
	secs. 21, 22, 27 and 28, marked with 2 notches
	on S. and 3 notches on E. edges; and
	raised a mound of stone
	2 ft. base 1½ ft. high, W.
	of cor. Pits impracticable
	Land, mountainous
	Soil, rocky; 4th rate.
	Timber, cedar.
	Mountainous land
	80.00 chains.
	East on a random line
	bet. secs. 22 and 27
40.00	Set temp. ¼ sec. cor.
80.16	Intersect N. and S. line
	at cor. of secs. 22, 23, 26 and
	27.
	Thence I run
	West on a true line

Subdivision of Tp. 18 N. Rg. 1 E.

chains	
	bet. secs. 22 and 27
	Over rolling mountain
	top through very scattering
	cedar timber.
6.00	Descend steep W. slope
17.50	Cross wash in cañon, course
	S. and ascend.
28.50	Top of ridge bears N. and S.
	and descend.
37.10	Cross wash in cañon, course
	S.W. and ascend.
40.08	Set a sand stone 20 x 10 x 6 ins. in a
	mound of stone for ¼ sec.
	cor. marked ¼ on N. face;
	and raised a mound of
	stone 2 ft. base 1½ ft.
	high, N. of cor. Pits
	impracticable
69.50	Cross wash course S. and
	ascend along steep S.E. slope

Subdivision of Tp. 18 N. Rg. 1 E.

80.16 | The cor. of secs. 21, 22, 27
and 28.
Land, mountainous
Soil, rocky; 4th rate.
Timber, cedar.
Mountainous land,
80.16 chs.

N. 0°02' W. bet. secs. 21 and 22
Over top mountain
40.00 | Set a malpais stone 18 x 12 x 6 ins. in
a mound of stone for
1/4 sec. cor. marked 1/4 on
W. face; and raised a
mound of stone 2 ft.
base 1 1/2 ft. high W.
of cor. Pits impracticable.
80.00 | Set a malpais stone 16 x 8 x 3 ins. 11

Subdivision of Tp. 18 N. Rg. 1 E.

chains

ins. in the ground for cor. of
secs. 15, 16, 21 and 22, marked with 3 notches
on W and 3 notches on E edges; from which

A cedar, 8 ins. diam. bears N 25¼° E.
328 lks. dist. marked T 18 N R 1 E
S 15 B T

A cedar, 24 ins. diam. bears S 65½° E
190 lks. dist. marked T 18 N R 1 E
S 22 B T;

dug pits 18 x 18 x 12 ins. S.W.
and N.W. of stone 5½ ft. dist.
and raised a mound of
earth 4 ft. base 2 ft.
high W. of cor.
Land mountainous
Soil, rocky; 4th rate.
No timber.
Mountainous land 80.00
chains.

East on a random line
bet. secs. 15 and 22

Subdivision of Tp. 18 N. Rg. 1 E.

chains	
40.00	Set temp. ¼ sec. cor.
80.08	Intersect N. and S. line
	at cor. of secs. 14, 15, 22 and 23

Thence I run

West on a true line bet.

secs. 15 and 22.

Descending over broken

mountains through

scattering cedar timber.

13.60	Wash in cañon brs. N. E.
	course W. and along in
	same
19.00	Leave wash, course N. W.
23.50	Cross same wash, course
	S. W. and ascend.
32.00	Through very scattering
	cedar timber over
	top of mountain
40.04	Set a malpais stone 18 x 8 x 7 ins. 12

Subdivision of Tp. 18 N. Rg. 1 E.

chains

ins. in the ground for ¼ sec. cor.; marked ¼ on N face; dug pits 18 x 18 x 12 ins. E and W of cor. 3 ft. dist.; and raised a mound of earth 3½ ft. base 1½ ft. high N of cor.

80.08 | The cor. of secs. 15, 16, 21 and 22.

Land, mountainous

Soil, rocky; 4th rate.

Timber, cedar.

Mountainous land 80.08 chains.

February 12, 1903

February 13: At 8h 00m a. m. l. m. t. I set off 55° 03′ N for my co-latitude; 13° 33′ S. for my declination; and determine a true meridian with the solar at the cor. of secs. 15, 16, 21 and

Subdivision of Tp. 18 N. Rg. 1 E.

chains	
	22
	Thence I run
	N. 0° 02' W. bet. secs 15 and 16
	Over rolling top of
	mountain
30.00	Enter scattering timber.
40.00	Set a malpais stone 20 x 10 x 6 ins. 15 ins. in the ground for ¼ sec. cor.; marked ¼ on W. face; from which
	A cedar 6 ins. diam. bears N 66° E. 125 lks. marked ¼ S 15 B T
	A cedar 10 ins. diam. bears S 55¾° W. 164 lks. marked ¼ S 16 B T
45.00	Descend into cañon
47.00	Cross wash course S. W. and ascend.
51.00	Top and over rolling mountains.
80.00	Set a malpais stone 18 x 8 x 3 ins. 12 ins. in the ground for cor. of secs. 9, 10, 15 and 16 marked with 4 notches on S and 3 notches on E edges; from which

Subdivision of Tp. 18 N. Rg. 1 E.

chains

A cedar, 15 ins. diam. bears N 25¼° E.
169 lks. dist. marked T 18 N R 1 E
S 10 B T

A cedar, 6 ins. diam. bears S 7¼° E.
262 lks. dist. marked T 18 N R 1 E
S 15 B T

A cedar, 24 ins. diam. bears S 70½° W
222 lks. dist. marked T 18 N R 1 E
S 16 B T

A cedar, 14 ins. diam. bears N 73° W
97 lks. dist. marked T 18 N R 1 E
S 9 B T

Land, mountainous
Soil, rocky and gravelly;
3 and 4th rate.
Timber cedar.
Mountainous land
80.00 chains.

East on a random line
bet. secs. 10 and 15
40.00   Set temp. ¼ sec. cor.

Subdivision of Tp. 18 N. Rg. 1 E.

80.18	Intersect N. and S. line at cor. of secs. 10, 11, 14 and 15.
	Thence I run West on a true line bet. secs. 10 and 15 Over rolling mountains through cedar timber
12.00	Along N. slope mountain
40.09	Point for ¼ sec. cor. falls in wash so at
39.80	Set a ~~sand~~ stone 24 x 14 x 6 ins. in a mound of stone for witness ¼ sec. corner marked WC ¼ on N. face; and raised a mound of stone 2 ft. base 1½ ft. high N. of cor. Pits impracticable

Subdivision of Tp. 18 N. Rg. 1 E.

chains

40.50   Center of wash, 100 lks.
         wide, course S.W. and
         ascend

80.18   The cor. of secs. 9, 10, 15 and 16
         Land, mountainous
         Soil, rocky; 4th rate
         Timber, cedar.
         Mountainous or heavily
         timbered land 80.18 chs.

         N. 0° 02' W. bet. secs. 9 and 10
         Over rolling mountains
         through scattering cedar
         timber.

14.25   Cross road, bears N.E. and S.W.

20.00   Timber becomes heavy.

33.70   Cross wash, course S.W.

40.00   Set a malpais stone 15 x 8 x 6 ins. 10
         ins. in the ground

Subdivision of Tp. 18 N. Rg. 1 E.

chains

for ¼ sec.

cor.; marked ¼ on W face; from which
A cedar 12 ins. diam. bears N 65° E.
100 lks. marked ¼ S 9 B T
A cedar 24 ins. diam. bears S. 61° W.
51 lks. marked ¼ S 10 B T

48.00	Timber becomes scattering.
80.00	Set a malpais stone 18 x 14 x 10 ins. 12 ins. in the ground for cor. of secs. 3, 4, 9 and 10, marked with 5 notches on S and 3 notches on E edges; from which

A cedar, 18 ins. diam. bears N 28¾° E.
158 lks. dist. marked T 18 N R 1 E
S 3 B T

A cedar, 10 ins. diam. bears S 59¾° E.
116 lks. dist. marked T 18 N R 1 E
S 10 B T

A cedar, 8 ins. diam. bears S 7½° W.
59 lks. dist. marked T 18 N R 1 E
S 9 B T

A cedar, 12 ins. diam. bears N 3¾° W.
208 lks. dist. marked T 18 N R 1 E
S 4 B T

Land mountainous

Soil rocky; 4th rate.

Timber, cedar.

Mountainous or heavily
timbered land 80.00

Subdivision of Tp. 18 N. Rg. 1 E.

chains

chains.

East on a random line bet.
secs. 3 and 10

40.00 Set temp ¼ sec. cor.

80.04 Intersect N. and S. line
5 lks. S. of cor. of secs. 2, 3,
10 and 11

Thence I run

S 89° 58' W. on a true line
bet. secs. 3 and 10

Over rolling mountains
through very scattering cedar
timber.

27.00 Timber becomes a little
heavier.

37.00 Leave timber

40.02 Set a malpais stone 15 x 8 x 4 ins. 10
ins. in the ground

Subdivision of Tp. 18 N. Rg. 1 E.

chains

for ¼ sec.

cor.; marked ¼ on *N* face; from which

A _cedar_ 12 ins. diam. bears _N 79¾° E._
257 lks. marked ¼ S 3 B T

A _cedar_ 15 ins. diam. bears _S 39½° E._
205 lks. marked ¼ S 10 B T

52.00	Enter cedar timber
55.00	Cross wash, course S. W.
80.04	The cor. of secs. 3, 4, 9 and 10.
	Land mountainous.
	Soil, rocky and sandy;
	4th rate.
	Timber, cedar.
	Mountainous or heavily
	timbered land 80.04
	chs.

N. 0° 02' W. bet. secs. 3 and 4.

Descending through
cedar timber

11.00	Cross wash, course S. W.

Subdivision of Tp. 18 N. Rg. 1 E.

chains

	and ascend over rolling moun-
	tains.
35.00	Wash, course S.E. bears N.
	and along in same
37.00	Leave wash, bears N.E.
40.00	Set a malpais stone 20 x 8 x 6 ins. in

a mound of stone for ¼ sec.
cor.; marked ¼ on W. face; from which
A cedar 4 ins. diam. bears N. 50½° E.
74 lks. marked ¼ S 3 B T ✓
A cedar 12 ins. diam. bears N. 70° W.
9 lks. marked ¼ S 4 B T ✓

53.28	Intersect S. boundary of
	Tp. 19 N. Rg. 1 E. 4.42 chs.
	E. of the ¼ sec. cor. on
	the S. bdy. of sec. 35 and
	Set a malpais stone 18 x 6 x 4 ins. in

a mound of stone for ¼ cor. of
secs. ___, 3 , and 4, marked with 3 notches
on E and 3 notches on W edges; from which
A cedar 14 ins. diam. bears S 23¼° W.
188 lks. dist. marked T 18 N R 1 E
S 4 B T: NO OTHER TREES: RAISED MD. OF
STONE 2 FT BASE 1½ FT HIGH W. OF COR. PITS

Subdivision of Tp. 18 N. Rg. 1 E.

chains	

IMPRACTICABLE.

Land, mountainous.
Soil, rocky; 4$\frac{th}{}$ rate.
Timber, cedar.
Mountainous or heavily
timbered land 53.28
chains.

February 13, 1903

February 14: At 8^{h}00^m a. m.
l. m. t. I set off 55° 06′ N
for my co-latitude; 13° 13′ ✓
S. for my declination; and
determine a true meridian
with the solar at the cor.
of secs. 4, 5, 32 and 33 on
S. bdy. of Tp.
Thence I run
N. 0° 02′ W. bet. secs. 32 and
33.

Subdivision of Tp. 18 N. Rg. 1 E.

chains	
	Descending over rolling mountains through scattering cedar timber.
8.40	Wash course N.E. and along in same
12.10	Leave wash, course N.W.
17.20	Cross wash, course N.W.
33.90	Cross wash, 1st noted above course N.E.
40.00	Set a lime stone 16 x 12 x 12 ins. in a mound of stone for ¼ sec. cor.; marked ¼ on W face; from which A cedar 8 ins. diam. bears S 15° E. 117 lks. marked ¼ S 33 B T A cedar 12 ins. diam. bears S 85½° W. 49 lks. marked ¼ S 32 B T
44.60	Cross wash, course N.E.
80.00	Set a lime stone 16 x 12 x 8 ins. 11 ins. in the ground for cor. of secs. 28, 29, 32 and 33, marked with 1 notches on S and 4 notches on E edges; from which A cedar 5 ins. diam. bears N. 24 ¾° E. 60 lks. dist. marked T 18 N R 1 E S 28 B T

Subdivision of Tp. 18 N. Rg. 1 E.

Chains

A cedar, 20 ins. diam. bears S. 79° E.
86 lks. dist. marked T 18 N R 1 E
S 33 B T

A cedar, 5 ins. diam. bears S. 67¾° W.
124 lks. dist. marked T 18 N R 1 E
S 32 B T

A cedar, 6 ins. diam. bears N. 32½° W.
87 lks. dist. marked T 18 N R 1 E
S 29 B T

Land, mountainous
Soil, rocky; 4th rate
Timber cedar.

_____

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

40.00 Set temp. ¼ sec. cor.
80.20 Intersect N. and S. line
at cor. of secs. 27, 28, 33 and
34

Thence I run
West on a true line
bet. secs. 28 and 33