

FIELD NOTES

OF THE SURVEY OF THE

Chiricahua Forest Reserve Boundary

Arizona.

Of the Gila and Salt River Meridian,

AS SURVEYED BY

Jno. P. Walker, United States ~~Exputy~~ Surveyor,

Under his ~~Contract No.~~ orders, dated January 3, 1905

Survey commenced February 6th, 1905

Survey completed May 16th, 1905

13	18	17	16	15
	19	20	21	22

PRELIMINARY OATHS OF ASSISTANTS.

We, J. J. Elliot and J. D. Budd 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 Chiricahua Forest Reserve Boundary.

J. J. Elliot Chainman
J. D. Budd Chainman

Subscribed and sworn to before me this 5th day of February, 1905

Jno. P. Walker
U. S. Surveyor.



We, Roy R. Reed and Charles Jean 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 Chiricahua Forest Reserve Boundary.

Roy R. Reed Moundman
Charles Jean Moundman

Subscribed and sworn to before me this 5th day of February, 1905
March 24th for Jean

Jno. P. Walker
U. S. Surveyor



We, Jos. Harrington, Louis Warner and J. G. Stephens 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 Chiricahua Forest Reserve Boundary.

Jos. Harrington Axman
J. G. Stephens Axman
Louis Warner Axman

Subscribed and sworn to before me this 5th day of February, 1905
March 23rd. for Warner and Stephens

Jno. P. Walker,
U. S. Surveyor.



We, J. N. Carmichael and Jos. Harrington 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 Chiricahua Forest Reserve Boundary.

J. N. Carmichael Flagman
Jos. Harrington Flagman

Subscribed and sworn to before me this 5th day of February, 1905
22nd of March for Harrington.

Jno. P. Walker,
U. S. Surveyor.



NAMES AND DUTIES OF ASSISTANTS.

J. J. Elliot	Chainman
J. D. Budd	Chainman
Roy R. Reed	Moundman
Charles Jean	Moundman.
Jos. Harrington	Axman
J. G. Stephens	Axman
Louis Warner	Axman
J. N. Carmichael	Flagman
Jos. Harrington	Flagman.
J. N. Carmichael	Rodman.

T.155.R.28E.

T.155.R.29E.

T.155.R.30E.

T.155.R.31E.

D

10

T.16S.
R.28E.

T.16S.
R.29E.

T.16S.
R.30E.

T.16S.
R.31E.

BOOK 3383

T.17S.
R.28E.

T.17S.
R.29E.

T.17S.
R.30E.

T.17S.
R.31E.

T.18S.
R.28E.

T.18S.
R.29E.

T.18S.
R.30E.

T.18S.
R.31E.

BOOK 3383

INDEX DIAGRAM

3383

Accepted Surveys.

Retraced or Resurr. this book.

Surveyed - this book.

Pages this book indicated in Red Figures.

T.19S.
R.28E.

T.19S.
R.29E.

T.19S.
R.30E.

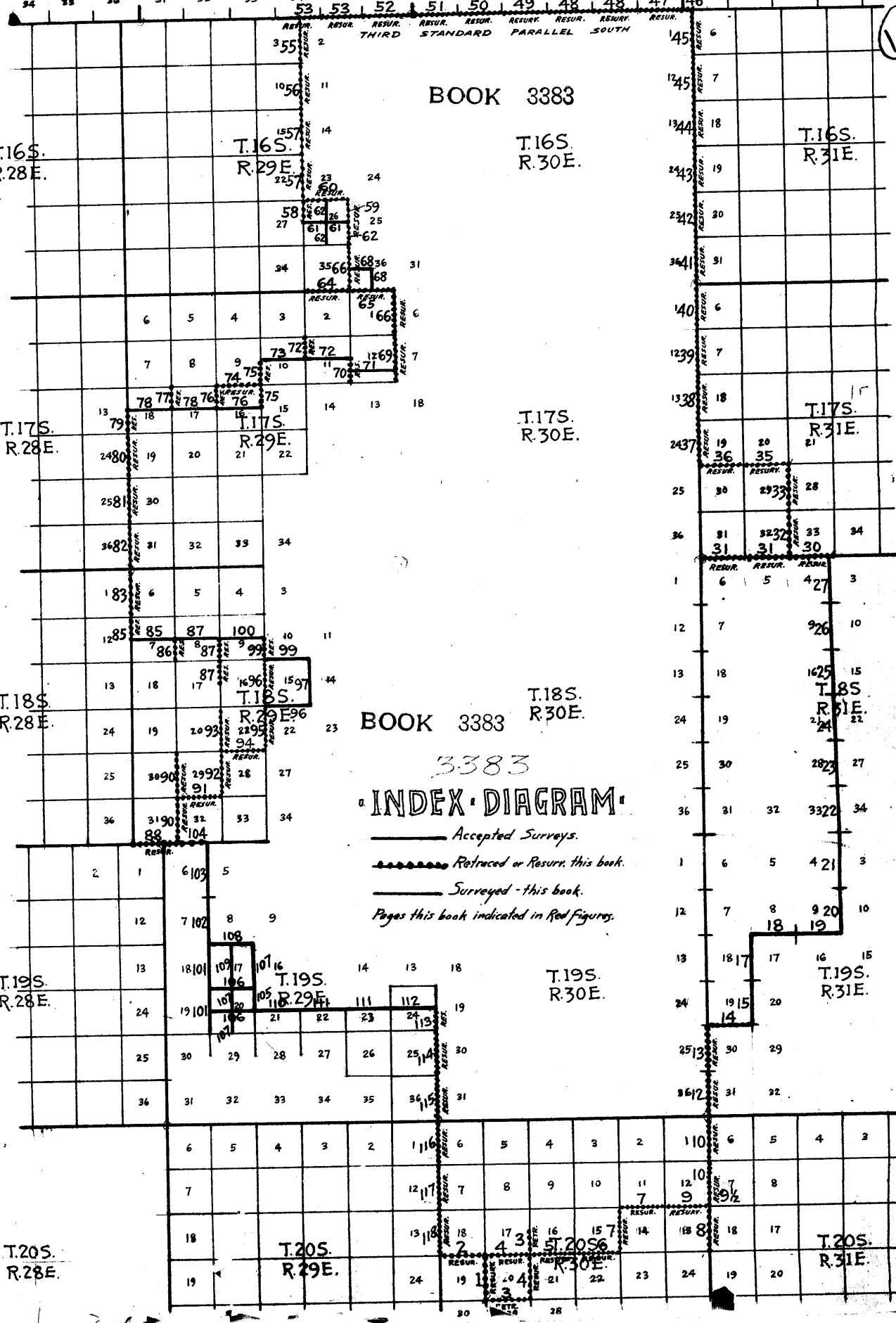
T.19S.
R.31E.

T.20S.
R.28E.

T.20S.
R.29E.

T.20S.
R.30E.

T.20S.
R.31E.



13,
CHIRICAHUA FOREST RESERVE BOUNDARY.

Chains. Survey commenced February 5, 1905, and executed with a Young and Sons mountain transit No. 10, with Smith patent solar attachment.
At corner of secs. 19, 20, 29 and 30, T. 20 S., R. 30 E., Gila and Salt River Meridian, at camp in latitude $31^{\circ}40'$, longitude $109^{\circ}22'$ west from Greenwich, p. m. of February 5th cloudy and no solar observation obtainable. I make the ordinary transit adjustments of instrument, consisting of bubble adjustment, standard adjustment and line of collimation.
To establish meridian by observation of Polaris I make observation at $7^{\text{h}}22^{\text{m}}$ astronomic time (l.m.t.) February 5, 1905, and mark direction thus determined by hub and tack 5.00 chs. dist. from instrument.

Time (astro.) of obs. Feb. 5, 1905,	$7^{\text{h}}22^{\text{m}}$	
U. C. February 1,	$4^{\text{h}}39^{\text{m}}$	
Red. to February 5,	15.8	
U. C. February 5,	sunt. $4^{\text{h}}23.2^{\text{m}}$	$4\ 23.2$
Hour angle,		$2^{\text{h}}58.8^{\text{m}}$

which for latitude $31^{\circ}40'$ gives azimuth of Polaris $1^{\circ}00'$ W.

Thence at 7 a.m. February 6, 1905, I turn off azimuth of Polaris $1^{\circ}00'$ to the east and mark meridian thus determined by hub and tack. Cloudy and stormy throughout day and no sun available.

Cloudy and stormy a.m. February 7th.
At $14^{\text{m}}18^{\text{s}}$ past noon, l.m.t., February 7th, I set off $15^{\circ}18'30''$ on declination arc and observe sun on meridian and obtain reading of $31^{\circ}40'$ on latitude arc.

At $14^{\text{m}}18^{\text{s}}$ past 4 p.m., February 7th, I set off $31^{\circ}40'$ on latitude arc and $15^{\circ}14'30''$ S. on declination arc and find meridian thus determined agrees with that by Polaris observation.

At $7^{\text{h}}30^{\text{m}}$ a.m., a.s.t., February 8th, I set off $31^{\circ}40'$ on latitude arc and $15^{\circ}01'30''$ S. on declination arc and find meridian thus determined agrees with that by Polaris observation and transit and solar attachment are therefore in true adjustment.

T. 20 S., R. 30 E.

February 8:

Thence from corner of secs. 19, 20, 29 and 30, T. 20 S., R. 30 E., which is a granite stone $18 \times 12 \times 10$ ins. correctly marked with 5 notches on E. and 2 on S. face, with mound of stone west of corner, as called for in notes of General Land Office, I run North on random retracement line between secs. 19 and 20.

40.00	No trace of $\frac{1}{4}$ sec. corner.
80.20	Intersect E. and T. sec. line 79 lks. west of corner of secs. 17, 18, 19 and 20.
	Thence returning to corner of secs. 19, 20, 29 and 30, from which I run
	N. $0^{\circ}34'$ E. on true retracement line between secs. 19 and 20, over nearly level prairie.
40.10	Set granite $16 \times 10 \times 8$ ins., 12 ins. in ground for $\frac{1}{4}$ sec. corner, marked $\frac{1}{4}$ on T. face, and dig pits $18 \times 18 \times 12$ ins., $3\frac{1}{2}$ ft. dist., N. and S. of corner and raise mound of earth $3\frac{1}{2} \times 1\frac{1}{2}$ ft. west of corner.
80.20	At corner of secs. 17, 18, 19 and 20, which is a granite stone $10 \times 6 \times 6$ ins. above ground, no evidence of old pits. Stone correctly marked with 5 notches on E. and 3 on S. face, as called for in notes of

CHIRICAHUA FOREST RESERVE BOUNDARY.
T. 20 S., R. 30 E.

Chains. General Land Office. I dig pits 18x18x12 ins. in each section, 5½ ft. dist., and raise mound of earth over stone mound west of corner around iron post, as described later.
Land, gently rolling and level prairie.
Soil, gravelly, 4th rate.
Timber, none.
Note: This line is not of reserve boundary line, but as corner of secs. 19, 20, 29 and 30, was first found, I ran north to find corner of secs. 17, 18, 19 and 20.

From corner of secs. 17, 18, 19 and 20, I run West on random retracement line between secs. 18 and 19.

40.00 No trace of ¼ sec. corner being found I set stake for temporary ¼ corner.

78.26 Intersect west boundary of township 4.13 chs. south of corner of secs. 13, 18, 19 and 24, which is a limestone 20x14x8 ins. above ground, correctly marked with 3 notches on N. and S. faces, with mound of stone W. of corner, as called for in notes of General Land Office. From corner (new)

- A live oak, 5 ins. diam., bears N. 61° E., 72 lks. dist., I mark RES T 20 S R 30 E S 18 B T
- A live oak, 8 ins. diam., bears S. 61° E., 118 lks. dist., I mark T 20 S R 30 E S 19 B T
- A live oak, 12 ins. diam., bears S. 47°30' W., 89 lks. dist., I mark T 20 S R 29 E S 24 B T
- A live oak, 10 ins. diam., bears N. 78°30' W., 70 lks. dist., I mark T 20 S R 29 E S 13 B T

Thence from corner of secs. 13, 18, 19 and 24, I run S. 87°00' E. on true retracement line between secs. 18 and 19, over rolling land through timber and brush.

.06 Set U. S. Forest Reserve Boundary Post No. 1, a hollow cylindrical iron post, 4 ins. diam., 4 ft. long, flared at base, brass cap on top, containing markings, 14 ins. in ground to solid rock, and build mound of stone, 7 ft. base, 2½ ft. high, around same for Reserve Boundary marking and witness corner to corner of secs. 13, 18, 19 and 24, marked:

- U.S. Forest Reserve Boundary Post (regular marking on all posts) No. 1.
- 1905 on top of cap.
- W C on top of cap.
- No. 1 on top of cap.
- RESERVE in N. E. quadrant on top of cap.
- T 20 S S 18 on beveled edge of cap in N.E.quad.
- R 30 E S 19 in S. E. quadrant.
- S 24 in S. W. quadrant.
- R 29 E S 13 in N. W. quadrant, with 3 notches on N. and S. sides.

8.00 Draw 10 lks. wide, course N. 70° E.

31.00 Creek, 20 lks. wide, water 8 ins. deep (probably dry in summer), course S. E.

34.90 Road bears N. W. and S. E.

39.25 Set washed sandstone 18x10x6 ins., 12 ins. in ground, for ¼ sec. corner, marked ¼ on N. face, from which:

- A live oak, 10 ins. diam., bears N. 43°15' E., 73 lks. dist., marked RES ¼ S 18 B T
- A live oak, 18 ins. diam., bears S. 26°30' W., 143 lks. dist., marked ¼ S 19 B T

At the ¼ sec. corner between secs. 18 and 19 I set off 14°59'45" S. on declination arc and at 14^m21^s past noon, l.m.t., February 8, 1905, observe sun on meridian and obtain reading of 31°40'45" on latitude arc.

136

CHIRICAHUA FOREST RESERVE BOUNDARY.

T. 20 S., R. 30 E.

- Chains.
- 55.00 Top of 50-foot spur bears N. and S.
- 64.50 Draw 10 lks. wide, course S. Limekiln 1.50 chs. south on west bank of draw.
- 70.70 Creek 3 lks. wide, $1\frac{1}{2}$ ft. deep, in 30-foot rock wall canyon, course S. 20° W. (probably dry in summer).
- 73.00 Leave timber, enter prairie bears N. 20° E. and S. 20° W.
- 78.20 Set iron U. S. Forest Reserve Boundary Post No. 2, 30 ins. in ground, and build mound of stone covered with earth, 5 ft. base, 1 ft. high, around same for W. C. to corner of secs. 17, 18, 19 and 20, marked:
 1905 on top of cap.
 No. 2 on top of cap.
 W. C. on top of cap.
 T 20 S S 17 in N. E. quadrant.
 R 30 E S 20 in S. E. quadrant
 S 19 in S. W. quadrant
 S 18 in N. W. quadrant
 RESERVE in N. W. and N. E. quadrants, with 5 notches on E. and 3 on S. sides.
- 78.26 Corner of secs. 17, 18, 19 and 20, previously described.
 Land, rolling and broken.
 Soil, rocky and gravelly, 4th rate.
 Timber, live oak, with occasional juniper and black pine.

February 8, 1905.

February 9:

At corner of secs. 17, 18, 19 and 20 I set off $31^\circ 40' 45''$ on latitude arc and $14^\circ 42' 45''$ S. on declination arc and at 8 a.m., February 9th, establish meridian with solar.

Thence I run

East on random retracement line between secs. 17 and 20.

40.00 No trace of old $\frac{1}{4}$ sec. corner; set temporary stake.

80.00 No trace of sec. corner; set temporary stake for corner of secs. 16, 17, 20 and 21.

Thence from stake for temporary corner of secs. 16, 17, 20 and 21, I run

South on random line between secs. 20 and 21.

40.00 No trace of $\frac{1}{4}$ sec. corner.

80.00 Intersect E. and W. sec. line 1.35 chs. west of corner of secs. 20, 21, 28 and 29, which is a granite $15 \times 10 \times 8$ ins. above ground, correctly marked and witnessed as called for in notes, except a juniper 24 ins. bears S. 70° E. 26 lks. instead of S. 70° W., as called for (B.T.'s marked in Roman numerals).

As north boundary of sec. 20 is over very rough country I deem it advisable to check my work.

Thence from corner of secs. 20, 21, 28 and 29 I run West on check line between secs 20 and 29.

82.00 Intersect N. and S. sec. line 16 lks. N. of corner of secs. 19, 20, 29 and 30, which checks around sec. 20 within a reasonable limit.

February 9, 1905.

February 10:

Thence I move stake set for temporary corner of secs. 16, 17, 20 and 21 1.35 chs. E. and from this point I run

North on random line between secs. 16 and 17, descending very broken timbered mountain. (Old notes call for ascending).

5.50 Draw, 10 lks. wide, course S. 60° E. at base of 350-foot descent, begin abrupt rocky ascent. (Not called for in old notes).

137

CHIRICAHUA FOREST RESERVE BOUNDARY.

T. 20 S., R. 30 E.

Chains.

- 24.00 Top of 800-foot ascent on ridge bears N. E. and S. W., begin abrupt rocky descent. (28.00 old notes call for top bearing N. W. and S. E., thence along mountain).
- 37.00 Base of 400-foot descent, thence along west slope of timbered cove.
- 40.00 No trace of old $\frac{1}{4}$ sec. corner. (56.00 old notes call for "begin descent", and as matter of fact at 50.00 is very abrupt ascent of rocky mountain).
 Note: It is quite evident that this line, nor line between secs. 20 and 21, has never been run and notes over same are fictitious. I therefore deem it useless to run further north, as country is very mountainous and almost impassable, chaining impossible, and there are certainly no corners to the north to which I might tie my survey. I therefore abandon line at this point and establish corner of secs. 16, 17, 20 and 21 by survey from the south only.
 From corner of secs. 20, 21, 28 and 29, previously described, I run
 N. 0°03' W. on true line between secs. 20 and 21, through scattering timber, descending rocky side hill.
- 12.00 Base of 300-foot descent. Draw, 10 lks. wide, course N. 70° E., begin abrupt rocky ascent.
- 40.00 Set granite 22x10x8 ins., 8 ins. in ground to rock, for $\frac{1}{4}$ sec. corner, marked $\frac{1}{4}$ on W. face, from which:
 An oak, 6 ins. diam., bears N. 33°30' W., 92 lks. dist., marked $\frac{1}{4}$ S 20 B T
 No other trees available; I build mound of stone, 3 ft. base, 1 $\frac{1}{2}$ ft. high, W. of corner; pits impracticable.
- 65.00 Top of 1000-foot ascent over rocky peak, at south-east end of ridge; begin abrupt descent, dense timber.
- 80.00 Mark cross (+) on N. side of ledge in place 12x6x6 ft. above ground, with 3 grooves on S. and 4 on E. side of cross, for corner of secs. 16, 17, 20 and 21 (mark on ledge 2 ft. above ground on bench) from which:
 A pine, 8 ins. diam., bears N. 27°30' E., 38 lks. dist., marked RES T 20 S R 30 E S 16 B T
 A pine, 8 ins. diam., bears N. 8°15' W., 33 lks. dist., marked RES T 20 S R 30 E S 17 B T
 No other trees available on account of ledges of rock to south.
 Land, mountainous and very broken.
 Soil, rock ledges and gravelly, 4th rate.
 Timber, live oak, pine and occasional juniper.
 February 10, 1905.

February 9:

- Random previously given.
 Thence from the corner of secs. 17, 18, 19 and 20, I run
 East on true line between secs. 17 and 20, over prairie land, gradually ascending.
- 11.00 Leave prairie, enter timber, bears N. and S.
- 19.70 Draw, 8 lks. wide, course S. W.
- 22.00 Begin abrupt ascent, bears N. and S.
- 40.64 Set limestone conglomerate 20x12x6 ins. in ground to rock for $\frac{1}{4}$ sec. corner, marked $\frac{1}{4}$ on N. face, and build mound of stone, 3 ft. base, 1 ft. high, around corner. From corner:
 A live oak, 14 ins. diam., bears N. 46° W., 146 lks. dist., marked RES $\frac{1}{4}$ S 17 B T
 A pine, 4 ins. diam., bears S. 70°15' W., 140

139

CHIRICAHUA FOREST RESERVE BOUNDARY.

T. 20 S., R. 30 E.

- Chains. lks. dist., marked $\frac{1}{2}$ S 20 B T
- 50.00 Top of spur bears N. 30° W. and S. 30° E., thence
along N. slope.
- 60.00 Draw, 5 lks. wide, course N. W., begin ascent,
bears N. and S.
- 67.80 Top of ridge bears N. 20° W. and S. E. in saddle 990
feet above sec. corner. Begin descent.
- 81.28 At corner of secs. 16, 17, 20 and 21, previously
described, being 7 lks. west of temporary stake
set February 9. Difference due to convergence
of meridians.
- Land, mountainous and broken.
Soil, rocky and gravelly, 4th rate.
Timber, live oak, occasional pine and juniper.
February 9, 1905.

At this corner I set off 14°40'30" S. on declination
arc and at 14^m24^s past noon, l.m.t., observe sun
on meridian and obtain reading of 31°40'45" on
latitude arc.

February 10:

- From corner of secs. 16, 17, 20 and 21, I run
East on random line between secs. 16 and 21.
- 40.00 No trace of $\frac{1}{2}$ corner, set stake.
- 80.00 Intersect N. and S. sec. line 150 lks. N. of corner
of secs. 15, 16, 21 and 22, which is a granite
12x8x8 ins. above ground, correctly marked with
3 notches on E. and S. faces, from which:
A live oak (new), 12 ins. diam., bears N. 43°15' E.
162 lks. dist., I mark RES T 20 S R 30 E
S 15 B T
- No other trees available; I dig pits 18x18x12
ins. in each sec., 5½ ft. distant from corner,
placing dirt from same in mound around iron post
to the east of corner described later.
- Thence returning to corner of secs. 16, 17, 20 and
21, from which I run
S. 88°56' E. on true line between secs. 16 and 21,
through timber, descending abrupt rocky N. E.
slope.
- .13 Set iron U. S. Forest Reserve Boundary Post No. 3,
30 ins. in ground, and build mound of stone, 3½
ft. base, 1 ft. high, around same for W. C. to cor-
ner of secs. 16, 17, 20 and 21, marked:
No. 3 on top of cap.
W C on top of cap.
1905 on top of cap.
T 20 S S 16 in N. E. quadrant
R 30 E S 21 in S. E. quadrant
S 20 in S. W. quadrant
S 17 in N. W. quadrant
RESERVE in N. W. and N. E. quadrants, with 3
notches on S. and 4 on E. sides.
- 14.00 Draw, 10 lks. wide, course S. 60° E., base of descent
400 ft. below sec. corner; begin ascent through
scattering timber.
- 24.40 Top of 200-foot ascent needle rock ridge, bears N.W.
and S. E.
- 27.00 Begin abrupt descent bears N. W. and S. E.
- 37.00 Leave scattering timber, enter prairie bears N. W.
and S. E.
- 38.30 Draw, 8 lks. wide, course S. E. Base of 300-foot
descent.
- 40.00 Set limestone 18x12x8 ins., 15 ins. in ground, for
sec. corner, marked 1 on N. face, and build mound
of stone, 3 ft. base, 1½ ft. high, N. of corner;
pits impracticable.
- Thence gradually descending over rocky prairie land.
- 59.40 Timbered draw, 10 lks. wide, course S. E.

CHIRICAHUA FOREST RESERVE BOUNDARY.

T. 20 S., R. 30 E.

Chains.

80.00 Corner of secs. 15, 16, 21 and 22, previously described.
Land, first half, mountainous and broken; second
half, rolling rocky prairie.
Soil, rocky, 4th rate.
Timber, live oak, pine and juniper.
February 11, 1905

February 13:

At corner of secs. 15, 16, 21 and 22, I set off
31°40'45" on latitude arc and 13°24' S. on declina-
tion arc, and at 7.30 a.m., February 13, 1905,
establish meridian with solar.

Thence I run

East on random retracement line between secs. 15
and 22.

40.00 No trace of $\frac{1}{4}$ sec. corner found. I set stake for
temporary corner.

80.14 Intersect N. and S. sec. line 34 lks. S. of corner
of secs. 14, 15, 22 and 23, which is a granite
12x12x8 ins. above ground, correctly marked with
3 notches on S. and 2 on E. faces; I dig pits
18x18x12 ins. in each section, 5 $\frac{1}{2}$ ft. dist., from
corner, placing dirt in mound of stone around iron
post to the north of corner.

Thence returning to the corner of secs. 15, 16, 21
and 22, from which I run

N. 89°45' E. on true retracement line between secs.
15 and 22, over rolling rocky prairie.

.07 Set iron U. S. Forest Reserve Boundary Post No. 4,
30 ins. in ground, and build mound of stone and
earth, 4 $\frac{1}{2}$ ft. base, 1 ft. high, around same, for
W. C. to corner of secs. 15, 16, 21 and 22, marked:

No. 4 on top of cap.

W C on top of cap.

1905 on top of cap.

T 20 S S 15 in N. E. quadrant

R 30 E S 22 in S. E. quadrant

S 21 in S. W. quadrant

S 16 in N. W. quadrant

RESERVE in N.E. and N.W. quadrants, with 3
notches on E. and S. faces.

4.50 Timbered draw, 15 lks. wide, 3 ft. banks, course S.E.

40.07 Set granite 20x10x5 ins., 15 ins. in ground, for $\frac{1}{4}$
sec. corner, marked $\frac{1}{4}$ on N. face; dig pits 18x18x12
ins., E. and W. of corner, 3 $\frac{1}{2}$ ft. dist., and raise
mound of earth ~~xxx~~ 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, north
of corner.

58.00 Draw 20 lks. wide, 4 ft. banks, course S. E.

80.14 Corner of secs. 14, 15, 22 and 23 previously described.
Land, rolling prairie.
Soil, rocky and gravelly, 4th rate.
Timber, live oak along draw.

From corner of secs. 14, 15, 22 and 23 I run

North on random line between secs. 14 and 15.

39.90 The $\frac{1}{4}$ sec. corner bears W. 37 lks. dist., and is a
limestone 8x8x6 ins. above ground, correctly marked
 $\frac{1}{4}$ on W. face; I dig pits 18x18x12 ins. N. and S. of
corner, 3 ft. dist., and raise mound of earth, 3
ft. base, 1 ft. high, W. of corner.

Thence I set over $\frac{1}{4}$ sec. corner and run north.

40.32 The corner of secs. 10, 11, 14 and 15 bears W., 32
lks. dist., which is a granite 10x6x6 ins. above
ground, correctly marked with 3 notches on E. and
4 on S. faces, and witnessed by four bearing trees.
The N.E. and S.E. bearing trees are dead; the S.W.
is defective. From corner:

A live oak (new), 15 ins. diam., bears

CHIRICAHUA FOREST RESERVE BOUNDARY.

T. 20 S., R. 30 E.

- Chains. N. 59°15' E., 98 lks. dist., I mark
RES T 20 S R 30 E S 11 B T
A live oak (new), 14 ins. diam., bears
S. 83°30' E., 81 lks. dist., I mark
T 20 S R 30 E S 14 B T
A live oak (new), 12 ins. diam., bears
S. 62°45' W., 91 lks. dist., I mark
RES T 20 S R 30 E S 15 B T
A live oak (old), 12 ins. diam., bears
N. 26°45' W., 34 lks. dist., (instead of
N. 34° W., 28 lks., as reported). I chop
out old markings of Roman numerals, and mark
RES T 20 S R 30 E S 10 B T
Thence I return to corner of secs. 14, 15, 22 and
23, from which I run
N. 0°32' W. on true retracement line between secs.
14 and 15, over rolling prairie, gradually ascending.
.07 Set iron U. S. Forest Reserve Boundary Post No. 5,
30 ins. in ground, and build mound of stone and
earth, 4 ft. base, 1 ft. high, around same for
W. C. to corner of secs. 14, 15, 22 and 23, marked:
No. 5 on top of cap.
W C on top of cap.
1905 on top of cap.
T 20 S S 14 in N. E. quadrant
R 30 E S 23 in S. E. quadrant
S 22 in S. W. quadrant
S 15 in N. W. quadrant
RESERVE in N. W. quadrant, with 2 notches on E.
and 3 on S. sides.
- 39.90 The $\frac{1}{4}$ sec. corner.
Thence I run
N. 0°27' W.
- 12.60 Flat draw 5 lks. wide, course S. 70° E. Leave
prairie, enter scattering timber, bears E. and W.
- 17.20 Draw, 8 lks. wide, course S. 70° E.
- 25.00 Draw, 10 lks. wide, course S. 70° E., 10 ft. banks.
- 34.75 Draw, 10 lks. wide, 8 ft. banks, course S. 70° E.
- 38.70 Draw, 10 lks. wide, 6 ft. banks, course S. 60° E.
- 40.32 Corner of secs. 10, 11, 14 and 15.
Land, rolling.
Soil, rocky and gravelly, 4th rate.
Timber, scattering live oak.
-
- From corner of secs. 10, 11, 14 and 15 I run
East on random retracement line between secs. 11
and 14.
- 40.00 No trace of $\frac{1}{4}$ sec. corner; set stake.
- 80.12 Intersect N. and S. sec. line 36 lks. N. of corner
of secs. 11, 12, 13 and 14.
Thence returning to corner of secs. 10, 11, 14 and
15, from which I run
S. 89°45' E. on true line between secs. 11 and 14,
through scattering timber, along gradual S. slope
of foothill.
- .06 Set iron U. S. Forest Reserve Boundary Post No. 6,
30 ins. in ground, and build mound of stone, 4 ft.
base, 1 ft. high, around same for W. C. to corner
of secs. 10, 11, 14 and 15, marked:
No. 6 on top of cap.
W. C. on top of cap.
1905 on top of cap.
T 20 S S 11 in N. E. quadrant
R 30 E S 14 in S. E. quadrant
S 15 in S. W. quadrant
S 10 in N. W. quadrant
RESERVE in N.E., N.W. and S.W. quadrants, with
2 notches on E. and 4 on S. sides.

1451

CHIRICAHUA FOREST RESERVE BOUNDARY.

T. 20 S., R. 30 E.

Chains.

- 21.00 Draw, 8 lks. wide, 6 ft. bank, course S. E.
 25.90 Draw, 10 lks. wide, 6 ft. banks, course S. E.
 29.90 Draw, 8 lks. wide, 4 ft. banks, course S. E.
 Leave scattering timber, enter prairie, bears
 N. and S.
 35.30 Wash, 4 lks. wide, 3 ft. deep, course S. 30° E.
 40.06 Set porphyry limestone 18x12x6 ins., 12 ins. in
 ground, for $\frac{1}{4}$ sec. corner, marked $\frac{1}{4}$ on N. face;
 and dig pits 18x18x12 ins., $3\frac{1}{2}$ ft. dist. from cor-
 ner, on line E. and W. and raise mound of earth
 $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of corner.
 46.10 Wash 3 lks. wide, 3 ft. deep, course S. 30° E., base
 of gradual slope, enter flat bears N. and S.
 55.60 Draw, 10 lks wide, 2 ft. banks, course S. 20° E.
 57.60 Wash 3 lks. wide, 5 ft. banks, course S. 20° E.
 65.30 Draw 10 lks wide, 3 ft. banks, course S. 20° E.
 71.00 Draw 20 lks. wide, 5 ft. banks, course S. 20° E.
 76.00 Begin ascent, bears N. and S. E., of isolated lava
 hill.
 80.12 Corner of secs. 11, 12, 13 and 14, which is a lava
 rock 12x10x12 ins., above ground, correctly marked
 with 1 notch on E. and 4 on S. faces, as called
 for in notes, with mound of stone west of corner;
 on southwest slope of lava hill 30 ft. above flat.
 Land, rolling and level.
 Soil, rocky and gravelly, 4th rate.
 Timber, scattering live oak on first half.

At this corner February 13, 1905, I set off 13°21'45"
 S. on declination arc and at 14^m25^s past noon,
 l.m.t., observe sun on meridian and obtain a read-
 ing of 31°41'30" on latitude arc.

- From corner of secs. 11, 12, 13 and 14 I run
 East on random retracement line between secs. 12
 and 13.
 40.00 No trace of $\frac{1}{4}$ sec. corner; set stake for temporary
 corner.
 80.00 No trace of sec. corner found. I set stake for tem-
 porary corner of secs. 7, 12, 13 and 18.
 From this stake I run
 South on random line between secs. 13 and 18, between
 ranges 30 and 31 east.
 40.00 No trace of $\frac{1}{4}$ corner.
 78.20 Intersect E. and W. sec. line 41 lks. W. of corner
 of secs. 13, 18, 19 and 24, which is a porphyry
 limestone 24x14x6 ins., correctly marked with mound
 of stone on W.
 Thence I return to stake for temporary corner of secs.
 7, 12, 13 and 18, which I move 41 lks. east and 180
 lks. north, and set stake for temporary corner,
 position No. 2 (which is 80.00 chs. N. from corner
 of secs. 13, 18, 19 and 24) and from this point
 I run
 North on random line between secs. 7 and 12.
 41.10 The $\frac{1}{4}$ sec. corner bears E. 17 lks. dist., making to-
 tal distance between corner of secs. 12, 18, 19 and
 24 and the $\frac{1}{4}$ sec. corner between secs. 7 and 12
 121.10 chs.
 Thence I return to corner of secs. 13, 18, 19 and 24,
 from which I run
 N. 0°05' E. on true line between secs. 13 and 18,
 descending N. W. slope of lava hill.
 23.00 Base of 50-foot descent; enter prairie flat bears
 N. 20° E. and S. 20° W.
 40.37 Set porphyry limestone 16x10x5 ins., 10 ins. in
 ground for $\frac{1}{4}$ sec. corner, marked $\frac{1}{4}$ on N. face.
 from which:
 A live oak, 10 ins. diam., bears E. 100 lks. dist.,
 109 lks. dist., I mark $\frac{1}{4}$ S. 18° E.

14101
Chiricahua Forest Reserve Boundary.

T. 20 S., Rs. 30 and 31 E.

Chains No other trees available; I dig pits 18x18x12 ins. on line N. and S. 3 1/2 ft. distant from corner and raise mound of stone and earth, 3 1/2 ft. base, 2 ft. high, west of corner.

42.00 Draw, 10 lks. wide, course S. W. point of timber bearing N. W. and S. W.

80.73 Set porphyry limestone 20x8x6 ins., 15 ins. in ground, for corner of secs. 7, 12, 13 and 18, marked with 2 notches on N. and 4 on S. faces and dig pits 18x18x12 ins. in each section 5 1/2 ft. dist. from corner; dirt from pits used in mound of stone and earth around iron post described later.
(This corner established 11 lks. east and 73 lks. north of position No. 2 temporary stake or (41+11)= 52 lks. east and (180+73)= 253 lks. north of first position set on random east between secs. 12 and 13).

Land, rolling and level.
Soil, rocky and gravelly, 4 th rate.
No timber, except point of live oaks skirting creek, which just projects to lime from the west.

Thence from corner of secs. 11, 12, 13 and 14 I run N. 88°12' E. on true retracement line between secs. 12 and 13, ascending S. W. slope of bare lava hill.

.06 Set iron U. S. Forest Reserve Boundary Post No. 7 28 ins. in ground and build mound of stone, 4 ft. base, 1 1/2 ft. high, around same for W.C. to corner of secs. 11, 12, 13 and 14, marked:
No. 7 on top of cap.
W. C. on top of cap.
1905 on top of cap.
T 20 S S 12 in N. E. quadrant
R 30 E S 13 in S. E. quadrant
S 14 in S. W. quadrant
S 11 in N. W. quadrant
RESERVE in N. E. and N. W. quadrant, with 1 notch on E. and 4 on S. sides.

Land, rolling and level.
Soil, rocky and gravelly, 4th rate.
Timber, live oak along creek.

9.00 Top of ascent 50 ft. above sec. corner on S. slope of hill, thence descending bears N. 30° E. and S. W.

18.30 Draw 8 lks. wide, 3 ft. banks, course S. 30° E. base of 60 ft. descent, bears N. and S.

28.00 Begin graded ascent, bears N. 30 W. and S. 30 E.

29.00 Top of 30 ft. ascent on spar of lava hill bears N. 30 W. and S. 30 E.

35.90 Draw, 10 lks. wide, 3 ft. banks, course S. 30° E. Base of 40 ft. descent E side of lava hill, bears N. and S. E.

Enter prairie flat.

37.40 Road bears N. and S. 30 W.

40.26 Set porphyry lime rock 18x10x6 ins. 12 inc. in ground for 1/4 sec. corner marked:
1/4 on N. face
I dig pits 18x18x12 inc. E. and W. of corner 5 1/2 ft. distant, and raise mound of stone covered with earth, 4 ft. base, 2 ft. high, N. of corner.

50.00 Enter scattering timber bears N. and S.

61.60 Dry creek 20 lks. wide, 3 ft. banks, bears N. and S.

68.00 Leave scattering timber, and enter open prairie bears N. and S. 30 W.

Cor. of sections 7, 12, 13 and 18 as previously described. (See map.)

1419

CHIRICAHUA FOREST RESERVE BOUNDARY.

East Boundary T. 20 S., R. 30 E.

Chains. From corner of secs. 7, 12, 13 and 18, as set by me, I run

N. 00°05' E., random previously given, on true re-tracement line between secs. 7 and 12, over level prairie flat.

.08 Set iron U. S. Forest Reserve Boundary Post No. 8, 28 ins. in ground, and build mound of stone and earth, 3 1/2 ft. base, 1 1/2 ft. high, around same, for W. C. to corner of secs. 7, 12, 13 and 18, marked:

No. 8 on top of cap.

W. C. on top of cap.

1905 on top of cap.

T 20 S S 7 in N. E. quadrant

R 31 E S 18 in S. E. quadrant

S 13 in S. W. quadrant.

R 30 E S 12 in N. W. quadrant

RESERVE in N. W. quadrant, with 4 notches on S. and 2 on N. sides.

40.37 The 1/4 sec. corner between secs. 7 and 12, which is a granite 8x5x5 ins. above ground, correctly marked 1/4 on W. face, with mound of stone west of corner; I dig pits 18x18x12 ins., N. and S. of corner, 3 1 2 ft. dist., and raise mound of stone and earth, 4 ft. base, 2 ft. high, W. of corner. February 13, 1905.

CHIRICAHUA FOREST RESERVE BOUNDARY.

East Boundary T. 20 S., R. 30 E.

Chains. February 14:

- At the $\frac{1}{4}$ sec. corner between secs. 7 and 12 I set off $31^{\circ}42'$ on latitude arc and $13^{\circ}04'$ S. on declination arc and at 9 a.m. establish meridian with solar.
- Thence I run North on random line between north halves of secs. 7 and 12.
- 40.30 Intersect E. and W. sec. line 66 lks. W. of corner of secs. 1, 6, 7 and 12.
Thence returning to $\frac{1}{4}$ sec. corner, from which I run N. $0^{\circ}57'$ E. on true retracement line between secs. 7 and 12, over level prairie.
- 1.77 Wire fence bears N. 80° W. and S. 80° E., begin ascent of rocky prairie hill bears N. 80° W. and S. 80° E.
- 7.00 Top of 60-foot rocky spur bears E. and W.
- 7.40 Vertical descent of cliff bears N. 70° E. and S. 70° W., 25 ft. high.
- 10.00 Base of 40-foot descent at draw 6 lks. wide, course W.; begin rocky ascent bears E. and W.
- 18.00 Top of 100-foot ascent bears E. and W.; north point of lava cliff bears E. 2.00 chs. dist., and rises 40 feet above elevation of this point.
Thence along top of ridge.
- 39.00 Enter scattering timber bears E. E. and W.
- 40.30 The corner of secs. 1, 6, 7 and 12, which is porphyry ~~xxx~~ lime rock, correctly marked, but fractured on cleavage lines, with small mound of stone west of corner. As stone is imperfect I set in its place a porphyry limestone $20 \times 14 \times 6$ ins., marked with 1 notch on N. and 5 on S. faces, from which:
new bearing trees:
A live oak, 14 ins. diam., bears N. 4° E., 125 lks. dist., marked T 20 S R 31 E S 6 B T
A live oak, 10 ins. diam., bears S. $49^{\circ}45'$ E., 90 lks. dist., marked T 20 S R 31 E S 7 B T
A live oak, 8 ins. diam., bears S. $41^{\circ}45'$ W., 216 lks. dist., marked RES T 20 S R 30 E S 12 B T
No other tree in limits.
Land, level, hilly and broken.
Soil, rocky and gravelly, 4th rate.
Timber, live oak.

- From corner of secs. 1, 6, 7 and 12 I run North on random line between secs. 1 and 6.
- 40.70 $\frac{1}{4}$ sec. corner bears E. 44 lks. dist.
Thence set over corner and run north.
- 40.42 Intersect north boundary of township 30 lks. west of corner of Tps. 19 and 20 S., Rs. 30 and 31 E.
Thence returning to corner of secs. 1, 6, 7 and 12, from which I run N. $0^{\circ}38'$ E. on true retracement line between secs. 1 and 6, over hilly rocky land, through scattering timber.
- .06 Set iron W. S. Forest Reserve Boundary Post No. 9, 18 ins. in ground to rock and build mound of stone, 5 ft. base, 8 ft. high, around same, for W. C. to corner of secs. 1, 6, 7 and 12, marked:

No. 9 on top of cap.
W. C. on top of cap.
1905 on top of cap.
T 20 S S 6 in N. E. quadrant
R 31 E S 7 in S. E. quadrant
S 12 in S. E. quadrant
R 30 E S 1 in N. W. quadrant
RESERVE in N. W. and S. W. quadrants, with 1

CHIRICAHUA FOREST RESERVE BOUNDARY.

East Boundary T. 20 S., R. 30 E.

- 153
- Chains. notch on N. and 5 on S. sides.
- 7.00 Begin descent bears N. E. and S. W.
- 23.60 Draw 10 lks. wide, 6 ft. banks, course S. 70° W., base of 60-foot descent; leave scattering timber bears E. and N. W.; thence over open flat.
- 30.00 Begin gradual ascent bears E. and N. W.
- 40.70 The $\frac{1}{4}$ sec. corner which is a limestone 15x12x8 ins. set on top of ground in mound of stone, correctly marked, but as stone is defective I replace with a limestone 26x14x12 ins., set 15 ins. in ground, for $\frac{1}{4}$ sec. corner, marked $\frac{1}{4}$ on W. face and build mound of stone, 3 ft. base, 2 ft. high, W. of corner; pits impracticable.
- Thence from the $\frac{1}{4}$ sec. corner I run N. 0°26' E. on true retracement line between secs. 1 and 6.
- 4.00 Enter scattering timber bears E. and W.
- 6.90 Top of 50-foot ascent on west slope of spur. T. P. Blevin's ranch house bears N. 61°42' W. about 20.00 chs. dist.; begin descent bears N. 70° E. and S. 70° W.
- 11.00 Wire fence bears N. E. and S. W.
- 13.00 Wire fence bears N. W. and S. E.
- 14.00 Center of Blevin's lower tank, covering about two acres, bears W. about 10.00 chs. dist.
- 21.00 Draw 5 lks. wide, course S. W. Leave timber, enter prairie, bears E. and W.
- 28.00 Center of Blevin's upper tank, covering about 1 $\frac{1}{2}$ acres, bears W. 2.00 chs. dist.
- 31.50 South edge of upper end of tank bears N.E. and S.W. Offset 1.00 ch. east to go around tank, thence N. 1.50 chs.; thence W. 1.00 ch. to true line on N. side of tank, which is in draw from the N. E. Thence over flat prairie valley.
- 34.50 Well bears N. 60 lks. dist.
- 40.42 Corner of Tps. 19 and 20 S., Rs. 30 and 31 E., which is a limestone 6x5x4 ins., correctly marked, insecurely set, but position verified by evidence of old pits. I set in its place a limestone 24x8x8 ins., 18 ins. in ground, for corner of Tps. 19 and 20 S., Rs. 30 and 31 E., marked with 6 notches on N., S., E. and W. faces; dig pits 24x24x12 ins. on each line N., E. and W., 4 ft. dist., and S. 8 ft. dist., and use dirt from pits to cover mound of stone around iron post to the north of corner, described later.
- Land, hilly and level.
- Soil, rocky and gravelly, 4th and 3rd rate.
- Timber, live oak.

At this township corner I set off 13°01'45" S. on declination arc and at 14^m23^s past noon, l.m.t., February 14, 1905, observe sun on the meridian and obtain a reading of 31°43'15" on latitude arc.

GENERAL DESCRIPTION T.20 S., R.30 E.

The south half of the township, with exception of part of secs. 20 and 31 (lying without the reserve) is level gravelly prairie, dotted with occasional lava hills on the southwest and along east side. Affords good grasses. That portion of the township lying within the reserve, secs. 1, 15 and 11, consists of low timbered hills and timbered prairie valleys. Secs. 2 to 10 inclusive, secs. 12 and 17, and part of 18, are mountains, rocky and extremely rough, covered with good grasses, live oak, pine and juniper timber. The soil is generally volcanic lava

CHIRICAHUA FOREST RESERVE BOUNDARY.

Chains. GENERAL DESCRIPTION T. 20 S., R. 30 E.

rock and a pinkish rock called locally granite, but contains no hornblend, resembles a porphyry. I have called this rock in my corner descriptions porphyry limestone.

The entire township is reported as surveyed in 1882 and 1883. As a matter of fact that portion of ~~fact that portion of~~ the township lying in flat and foothills was imperfectly surveyed, but the portion in the mountains is simply a paper survey, in my judgment. Certainly the lines between secs. 20 and 21, 16 and 17, 17 and 20, and 16 and 21, were never run, as the notes over them are preposterous and show without doubt that the surveyor was never near them. The corner descriptions, some with bearing trees, over these lines are simply perjuries.

General drainage of the township is to the south-east; many streams of running water at present, but are dry in the summer months.

West Boundary T. 19 S., R. 31 East.

From the corner of Tps. 19 and 20 S., Rs. 30 and 31 E., previously described, I run North on random retracement line between secs. 31 and 36.

- 40.43 The 1/4 sec. corner bears E. 14 lks. dist.
- 39.50 Thence I set over 1/4 corner and continue north. Intersect E. and W. sec. line 2.55 chs. E. of corner of secs. 25, 30, 31 and 36.
- Thence returning to corner of townships 19 and 20 S., Rs. 30 and 31 E., from which I run N. 0°12' E. on true retracement line between secs. 31 and 36, over level prairie, valley.
- .09 Set iron U. S. Forest Reserve Boundary Post No. 10 28 ins. in ground, and build mound of stone covered with earth, 5 ft. base, 1 1/2 ft. high, around same, for W. C. to corner of township, marked:
 - No. 10 on top of cap.
 - W. C. on top of cap.
 - 1905 on top of cap.
 - T 19 S S 31 in N. E. quadrant
 - R 31 E S 6 in S. E. quadrant
 - T 20 S S 1 in S. W. quadrant
 - R 30 E S 36 in N. W. quadrant
 - RESERVE in N. W. and S. W. quadrants, with 6 notches on N., S., E. and W. sides.
- 8.00 Well bears E. about 2.50 chs. distant.
- 20.00 Marshy swail drains to S. E. "Cieniga" about 5.00 chs. wide extending 10.00 chs. west of line.
- 40.43 At the 1/4 sec. corner, which is a limestone conglomerate (or cement with sand and quartz modules) 15x12x6 ins., marked correctly, 1/2 on W. face (insecurely set), I reset in same place, 10 ins. in ground, and dig pits 18x18x18 ins. N. and S. of corner, 3 1/2 ft. dist., and raise mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, T. of corner.
- Thence from 1/4 sec. corner I run N. 3°41' W. on true retracement line between secs. 31 and 36 (north half).
- 7.00 Swail draw, 5 lks. wide, course S. W. into cieniga.
- 10.00 Begin ascent bears N. 70° W. and E.
- 13.00 Enter scattering timber bears E. and W.
- 30.50 Top of 300-foot rocky ascent, bears N. W. and E. 70° E.
- 38.00 Begin rocky abrupt descent through dense brush.
- Draw (rocky side hill) 5 lks. wide, course S. W.
- base of 300-foot descent; thence along E. slope

CHIRICAHUA FOREST RESERVE BOUNDARY.

West Boundary T. 19 S., R. 31 E.

Chains. of spur.

39.21 Set iron U. S. Forest Reserve Boundary Post No. 11
12 ins. in ground to rock and build mound of stone,
7 ft. base, 3 ft. high, around same for W. C. to
corner of secs. 25, 30, 31 and 36, marked:

No. 12 on top of cap.

W. C. on top of cap.

1905 on top of cap.

T 19 S S 30 in N. E. quadrant

R 31 E S 31 in S. E. quadrant

S 36 in S. W. quadrant

R 30 E S 25 in N. W. quadrant

RESERVE in N. W. and S. W. quadrants, with 1
notch on S. and 5 on N. faces.

39.50 Corner of secs. 25, 30, 31 and 36, which is a por-
phyry limestone ("granite") 20x10x7 ins., correct-
ly marked, with 1 notch on S. and 5 on N., set on
top of ground in mound of stone. I set same stone
10 ins. in ground to rock and build mound of stone
3½ ft. base, 2 ft. high, W. of corner. From the
corner a (new):

Live oak, 8 ins. diam., bears S. 9° E., 47 lks.
dist., marked T19 S R 31 E S 31 B T

No other trees available.

Land, level, mountainous and broken.

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

Timber, live oak and brush.

Cloudy after 10.30 a.m.; no further work.

February 14, 1905.

February 15:

At corner of secs. 25, 30, 31 and 36, I run

North on random line between secs. 25 and 30.

40.00 No trace of ½ sec. corner.

80.00 No trace of sec. corner. The General Land Office
notes over this line call for at:

36.00 chs. round peak E. 3.00 chs. dist.

As a matter of fact, 3.00 chs. east of 36.00 chs. is
in a canyon and there is no peak within a half-mile
and the only one visible is to the north about one-
half mile.

Notes call for continued ascent, when as matter of
fact I cross a canyon at 34.45 chs. about 100 ft.
deep, of which no note is made.

Then further, the General Land Office notes, north
between 19 and 24 call for ascent, and has no other
note on entire mile, when as a matter of fact from
corner of 19, 24, 25 and 30, going north would be a
very abrupt descent of about 300 ft. into a canyon
and remainder of mile is cut up by canyons and ver-
tical cliffs.

From these facts, and others evident on the ground,
I am certain that this line was never run and it
will be useless to run further north in search of
corners over almost an impassable country.

I therefore return to corner of secs. 25, 30, 31 and
36, from which I run

North on true line between secs. 25 and 30, along
rocky east slope, through small timber and brush.

1.50 Begin descent bears N. W. and S. E.

3.60 Draw, 10 lks. wide, course S. 70° E., base of descent,
50 ft. below sec. corner; begin abrupt rocky ascent.13.00 Top of 100-foot ascent on ridge bears N. 70° E. and
S. 70° E.; thence along east slope under rock
cliff, which bears N. 1.50 chs. distant.

15.00 Begin descent bears N. W. and S. 70° E.

34.35 Canyon draw, 10 lks. wide, course S. 60° E., base of
100-foot descent; begin rocky broken ascent.

38.50 Top of 80-foot ascent on ridge bears N. 70° E. and

CHIRICAHUA FOREST RESERVE BOUNDARY.

West Boundary T. 19 S., R. 31 E.

- Chains. S. 70° E.; thence over bench, gradually ascending.
- 40.00 Set limestone conglomerate 18x12x8 ins., 3 ins. in ground, to rock; with mound of stone, 3 ft. base, 1 ft. high, around corner, for 1/4 sec. corner, marked 1/4 on W/ face, from which:
 - A pine, 8 ins. diam., bears N. 22°15' E., 278 lks. dist., marked 1/4 S 30 B T
 - A live oak, 10 ins. diam., bears S. 40°15' W., 85 lks. dist., marked RES 1/4 S 25 B T
- 41.50 Wash, 3 lks. wide, course S. W.
- 50.00 Begin abrupt ascent of conglomerate cliff bears E. and W.
- 55.10 Top of 250-foot cliff bears E. and W., thence gradually ascending over badly washed conglomerate boulders and cavities.
- 60.00 Begin abrupt broken ascent bears E. and W.
- 77.00 Top of ascent on round rocky timbered butte 600 ft. above 1/4 sec. corner (This is probably the butte which former surveyor saw from one mile south and guessed it 3.00 chs. east of 36.00 chs. dist., as appears in his notes. I also assumed that he intended to say 76.00 chs. and looked for his sec. corner accordingly, but nothing is found).
- 78.25 Set iron U. S. Forest Reserve Boundary Post No. 12 on top of butte, 12 ins. in ground to rock, and build mound of stone, 7 ft. base, 3 ft. high, around same for W. C. to corner of secs. 19, 24, 25 and 30, marked:
 - No. 12 on top of cap.
 - W. C. on top of cap.
 - 1905 on top of cap.
 - T 19 S S 19 in N. E. quadrant
 - R 31 E S 30 in S. E. quadrant
 - S 25 in S. W. quadrant
 - R 30 E S 24 in N. W. quadrant
 - RESERVE in S. W., N. W. and N. E. quadrants, with 4 notches on N. and 2 on S. sides.
- 78.50 Begin abrupt rocky descent bears S. 70° W. and S. 70° E.
- 80.00 Set cement sandstone 24x16x6 ins., 12 ins. in ground, for corner of secs. 19, 24, 25 and 30, marked with 4 notches on N. and 2 on S. faces, from which:
 - A pine, 8 ins. diam., bears N. 35°30' E., 22 lks. dist., marked RES T 19 S R 31 E S 19 B T
 - A pine, 6 ins. diam., bears S. 60° E., 82 lks. dist., marked T 19 S R 31 E S 30 B T
 - A pine, 5 ins. diam., bears S. 35°30' W., 49 lks. dist., marked RES T 19 S R 30 E S 25 B T
 - A pine, 7 ins. diam., bears N. 25°15' W., 82 lks. dist., marked RES T 19 S R 30 E S 24 B T

Build mound of stone, 3 ft. base, 2 ft. high, west of corner.
 Land, mountainous and precipitous.
 Soil, rocky and bare rock, 4th rate.
 Timber, live oak and pine, with occasional juniper; pine predominates on north end of mile; underbrush.
 No work after 11 a.m. on account of cloudy weather.
 February 16, 1905.

T. 19 S., R. 31 E.

February 16:
 At corner of secs. 19, 24, 25 and 30, T. 19 S., R. 30 and 31 E., I set off 31°45' on latitude arc and 12°22'45" S. on declination arc, and at 7.30 a.m., February 16, 1905, establish meridian with solar.
 Thence I run East on true line between secs. 19 and 30, along N.

CHIRICAHUA FOREST RESERVE BOUNDARY.

T. 19 S., R. 31 E.

- face of butte, through timber and brush.
- Chains 2.20 Begin abrupt descent, bears N. W. and S. E.
- 10.00 Base of 350-foot descent, at canyon draw, 15 lks. wide. course S. E.; begin abrupt rocky ascent.
- 17.73 Top of 250-foot ascent on south point of rocky ledge, which stands up 25 feet vertical, 10 ft. wide, and breaks off 10 lks. to the south of line. At this point I build mound of stone, 3 ft. base, 3 ft. high, for line marking; two isolated rock pillars, 25 ft. high, bears S. 80 and 100 lks. dist. Begin abrupt descent bears N. and S.
- 37.00 Draw, 10 lks. wide, course S., base of 350-foot descent; begin abrupt rocky ascent, bears N. and S.
- 39.30 Top of 80-foot ascent on south slope of rocky spur.
- 39.41 (Allowing for convergency) I mark a porphyry limestone boulder in place 2x1 1/2x1 ft. above ground, marked with cross at point for corner, with 1 1/4 N. of cross () from which:
 A pine, 4 ins. diam., bears N. 61°15' E., 28 links dist., marked RES 1/4 S 19 B T
 A pine, 5 ins. diam., bears S. 38°15' W., 131 lks. dist., marked 1/4 S 30 B T
 and build mound of stone, 3 ft. base, 3 ft. high, N. of corner.
- 39.50 Begin abrupt descent bears N. 30° E. and S. W.
- 43.00 Draw, 15 lks. wide, course S. 30° W.; base of 100-foot descent; begin abrupt ascent over slide rock and ledges, bears N. 30° E. and S. 30° W.
- 53.00 Top of 300-foot ascent on ridge bears N. and S. thence across top of ridge.
- 56.00 Begin descent bears N. and S.; timber becomes scattering and less brush.
- 67.70 Draw, 20 lks. wide, course S. 30° E.; base of 250-foot descent; begin ascent.
- 76.00 Top of 200-foot ascent on south slope of grassy ridge; thence along S. slope.
- 79.35 Set iron U. S. Forest Reserve Boundary Post No. 13, 14 ins. in ground to rock, and build mound of stone, 7 ft. base, 2 1/2 ft. high, around same, for W.C. to corner of sections 19, 20, 29 and 30, marked:
 No. 13 on top of cap;
 W. C. on top of cap.
 1905 on top of cap.
 T. 19 S S 20 in N. E. quadrant
 R 31 E S 29 in S. E. quadrant
 S 30 in S. W. quadrant
 S 19 in N. W. quadrant
 RESERVE in N.W. quadrant, with 5 notches on E. and 2 on S. sides.
- 79.41 Set limestone 30x14x12 ins., 14 ins. in ground to rock for corner of secs. 19, 20, 29 and 30, marked with 5 notches on E. and 2 on S. faces, from which:
 A live oak, 18 ins. diam., bears N. 58°45' E. 160 lks. dist., marked T 19 S R 31 E S 20 B T
 A live oak 10 ins. diam., bears S. 68°45' E. 276 lks. dist., marked T 19 S R 31 E S 29 B T
 A juniper, 12 ins. diam., bears N. 3°30' W., 200 lks. dist., marked RES T 19 S R 31 E S 19 B T
- Land, mountainous and broken.
 Soil, rocky, bare rock and slide rock, 4th rate.
 Timber, pine and live oak.
 No. work in p.m. of 16th on account of rain.
 February 16, 1905.

Rain and cloudy February 17, 18 and 19, 1905.
 February 20:

From corner of secs. 19, 20, 29 and 30, I run
 M. 0°03' W. on true line between secs. 19 and 20,
 over rocky grassy hill, through scattering timber,
 gradually ascending along east slope.

163

CHIRICAHUA FOREST RESERVE BOUNDARY.

T. 19 S., R. 31 E.

- Chains.
- 11.00 Wash 5 lks. wide, course S. 70° E. for 6.00 chs. into draw, then S. 20° E.
- 21.50 Wash 5 lks. wide, course S. 70° E.
- 27.00 Top of ascent on east slope (line summit) 100 ft. above sec. corner; begin descent bears N. W. and S. 20° E.
- 33.00 Draw, 10 lks. wide, course S. E. for 10.00 chs., then S. 20° E. into Jackwoods canyon, base of 100-foot descent; begin ascent.
- 40.00 At point for $\frac{1}{4}$ sec. corner cut cross (+) on porphyry limestone boulder in place 4x3x1 $\frac{1}{2}$ ft. above ground, mark $\frac{1}{4}$ west of cross, for $\frac{1}{4}$ sec. corner, from which:
- A live oak, 5 ins. diam., bears S. 13°30' E., 12 lks. dist., marked $\frac{1}{4}$ S 20 B T
 - A live oak, 6 ins. diam., bears S. 89°30' W., 30 lks. dist., marked RES $\frac{1}{4}$ S 19 B T
- and build mound of stone, 3 ft. base, 2 ft. high, west of corner.
- 44.50 Top of 150-foot ascent bears N. 80° W. and S. E. Divide between Jackwoods Canyon on south and horse-shoe canyon on north.
- 45.50 Begin abrupt descent bears E. and W. over broken ledges, through timber and brush.
- 62.00 Rocky side hill draw, 10 lks. wide, course N. E., base of 500-foot descent; thence along E. slope of spur.
- 65.50 Point of spur, sloping to N. E., begin abrupt descent, bears N. 80° W. and S. 70° E.
- 76.00 Base of 300-foot descent bears N. 70° W. and S. 70° E.; thence over bottom land in Horse-shoe Canyon.
- 79.31 Creek 35 lks. wide, 12 ins. deep, course S. 70° E., (dry in summer).
- 79.86 Set iron U. S. Forest Reserve Boundary Post No. 14 28 ins. in ground and build mound of stone, 6 ft. base, 1 $\frac{1}{2}$ ft. high, around same for W. C. to corner of secs. 17, 18, 19 and 20, marked:
- No. 14 on top of cap.
 - W. C. on top of cap.
 - 1905 on top of cap.
 - T 19 S S 17 in N. E. quadrant
 - R 31 E S 20 in S. E. quadrant
 - S 19 in S. W. quadrant
 - S 18 in N. W. quadrant
- RESERVE in N. W. and S. W. quadrants, with 3 notches on S. and 5 on E. sides.
- 79.90 Leave canyon bottom, begin ascent bears N. 70° W. and S. 70° E.
- 80.00 Set porphyry limestone 20x12x8 ins., 6 ins. in ground to rock, for corner of secs. 17, 18, 19 and 20, marked with 5 notches on E. and 3 on S. faces, from which:
- A live oak, 10 ins. diam., bears N. 83° E., 65 lks. dist., marked T 19 S R 31 E S 17 B T
 - A live oak, 5 ins. diam., bears S. 49°15' E., 64 lks. dist., marked T 19 S R 31 E S 20 B T
 - A pine, 8 ins. diam., bears S. 45° W., 120 lks. dist., (on S. bank of creek), marked RES T 19 S R 31 E S 19 B T
- No other tree, build mound of stone, 3 ft. base, 1 ft. high, around corner.
- Land, mountainous and broken.
Soil, rocky, 4th rate.
Timber, live oak and pine and manzanita brush.

At corner of secs. 17, 18, 19 and 20, I set off 10°55'30" S. on declination arc and at 13^h57^m past noon, l.m.t., observe sun on meridian and obtain

CHIRICAHUA FOREST RESERVE BOUNDARY.

T. 19 S., R. 31 E.

- Chains. reading of 31°46' on latitude arc.
 Thence (at 1 p.m.) I run
 N. 0°03' W. on true line between secs. 17 and 18,
 ascending north side of Horse-shoe Canyon, over
 broken rocky mountain, scattering timber.
- 11.00 Top of 350-foot ascent on west slope of spur;
 thence gradually descending along steep W. slope.
- 14.00 Side hill wash, 3 lks. wide, course W.
- 18.50 Wash, 3 lks. wide, course W.
- 31.75 Draw 20 lks. wide, course S. W., base of 50-foot
 descent; begin abrupt rocky ascent, bears N. E.
 and S. W.
- 40.00 Set a limestone 20x12x8 ins., 14 ins. in ground,
 for $\frac{1}{4}$ sec. corner, marked $\frac{1}{4}$ on W. face, from
 which:
 A live oak, 5 ins. diam., bears S. 88°30' E.,
 114 lks. dist., marked $\frac{1}{4}$ S 17 B T
 A live oak, 10 ins. diam., bears N. 67° W., 55
 lks. dist., marked RES $\frac{1}{4}$ S 18 B T
 and build mound of stone, 3 ft. base, 2 ft. high,
 west of corner.
- 49.55 Top of 600-foot ascent on backbone of rocky ridge,
 ledge of rock 50 ft. high, 20 ft. wide, bears
 N. 20° E. and S. 70° W.
- 49.70 Begin precipitous descent.
- 60.50 Draw, 8 lks. wide, course S. 70° W. heads 4.00 chs.
 east of line against cliff; base of 200-foot de-
 scent bears N.E. and S. 70° W.; thence ascending
 bears E. and W.
- 65.60 Top of 80-foot ascent on spur bears N. E. and S. W.
 Thence along steep west slope of very broken moun-
 tain dotted with pinnacles of needle rock standing
 in sharp pillows and ledges for 10 to 75 feet
 high. At this point I offset 110 lks. to the west
 to avoid impassable rock pillows; thence N. 0°03' W.
 on offset line.
- 72.30 Pinnacle of rock 50 ft. base, 60 ft. high, on true
 line 110 lks. E. of pffset line.
- 75.10 Pinnacle, 15 ft. base, 30 ft. high, center on true
 line; also pinnacle, 60 ft. base, 60 ft. high, 80
 lks. west of true line.
- 78.00 Take up offset, back east 110 lks. to true line.
- 79.94 Set iron U. S. Forest Reserve Boundary Post No. 15,
 28 ins. in ground and build mound of stone, 4 ft.
 base, 1 $\frac{1}{2}$ ft. high, around same for W. C. to corner
 of secs. 7, 8, 17 and 18, marked:
 No. 15 on top of cap.
 W. C. on top of cap.
 1905 on top of cap.
 T 19 S S 8 in N. E. quadrant
 R 31 E S 17 in S. E. quadrant
 S 18 in S. W. quadrant
 S 7 in N. W. quadrant
 RESERVE in S. W., N. W. and N. E. quadrants,
 with 5 notches on E. and 4 on S. faces.
- 80.00 Point for true corner falls on boulder in place
 5x3x1 $\frac{1}{2}$ ft. above ground at corner point on S. W.
 corner of boulder. I mark cross (+) with 5
 notches on E. and 4 south of cross for corner of
 secs. 7, 8, 17 and 18, from which:
 A live oak, 10 ins. diam., bears N. 20° E., 78
 lks. dist., marked RES T 19 S R 31 E S 8
 B T
 A live oak, 12 ins. diam., bears N. 11°46' W.,
 36 lks. dist., marked RES T 19 S R 31 E S 7
 B T
 No other trees available (too small).
 Land, mountainous and precipitous.
 Soil, rocky and bare rock, 4th rate.
 Timber, live oak, pine and manzanita brush.

CHIRICAHUA FOREST RESERVE BOUNDARY.

T. 19 S., R. 31 E.

Chains. This corner falls on steep west slope 1.00 chs. east of draw, which heads about 10.00 chs. to the north and flows S. 35° W. into Horseshoe canyon, in a timbered cove of mountain dotted with vertical ledges and isolated pillows of rock. "Garden of the Devil".

February 20, 1905.

February 21:

At corner of secs. 7, 8, 17 and 18 I set off 31°46'30" on lat. arc and 10°36'30" S. on declination arc and at 9 a.m.,

February 21, 1905, establish meridian with solar.

Thence I run

- East on true line between secs. 8 and 17 abruptly ascending through scattering timber and brush over very broken needle rock surface.
- 14.30 Top of 570-foot ascent on rocky ridge bears N. 20° E. and S. 20° W. From this point a 200-foot waterfall on west side of horse-shoe canyon in small draw bears N. 67° W. about 1 mile distant.
- 14.40 Begin rocky descent bears N. E. and S. 20° W.
- 23.50 Draw 15 lks. wide, course S. 30° W., base of 150-foot descent; draw heads against ridge about 10.00 chs. N. of line, begin abrupt rocky ascent.
- 38.20 Top of 400-foot ascent on rocky ridge bears N. W. and S. 20° E.; begin abrupt rocky descent bears N. 20° W. and S. 20° E.
- 40.00 Set limestone 24x12x8 ins., 15 ins. in ground, for $\frac{1}{4}$ sec. corner, marked $\frac{1}{4}$ on N. face, from which:
A live oak, $\frac{1}{4}$ ins. diam., bears N. 89°50' E., 40 lks. dist., marked RES $\frac{1}{4}$ S 8 B T
No other trees available; I build mound of stone, 3 ft. base, 2 ft. high, N. of corner.
- 43.00 Draw, 5 lks. wide, course N. 30° E., base of 150-foot descent; begin ascent, bears N. E. and S. W.
- 50.80 Top of 100-foot ascent on spur sloping to N. 30° E., thence descending gradually along steep N. E. slope.
- 61.00 Side hill wash 8 lks. wide, course N. 30° E., base of 150-foot descent; thence along steep N. slope.
- 69.00 Backbone of E. and W. ridge bears S. 1.00 ch. dist., thence along W. slope near top of same.
- 80.00 Top of ridge bears N. 70° E. and S. 80° W. on rocky point. At point for corner I mark cross (+) on boulder in place 3x1x3 ft. above ground, between two larger boulders, for corner of secs. 8, 9, 16 and 17, with 4 notches E. and S. of cross, from which:
A pine, 10 ins. diam., bears N. 84° E., 27 lks. dist., marked RES T 19 S R 31 E S 9 B T
A pine, 7 ins. diam., bears S. 10°30' E., 39 lks. dist., marked T 19 S R 31 E S 16 B T
A pine, 8 ins. diam., bears S. 76° W., 104 lks. dist., marked T 19 S R 31 E S 17 B T
A pine, 15 ins. diam., bears N. 35°45' W., 74 lks. dist., marked RES T 19 S R 31 E S 8 B T
- Land, mountainous and precipitous.
Soil, bare rock and rocky, 4th rate.
Timber, live oak, pine and manzanita brush.
Cloudy for quarter of day.

February 21, 1905.

February 22:

At corner of secs. 8, 9, 16 and 17, I set off 31°46'30" on latitude arc and 10°15' S. on declination arc and at 8 a.m., February 22, 1905, establish meridian with solar.

169

CHIRICAHUA FOREST RESERVE BOUNDARY.

T. 19 S., R. 31 E.

- Chains. Thence I run
East on true line between secs. 9 and 16 over
boulders, through scattering timber and brush.
- .25 Begin abrupt rocky descent bears N. 70° E. and
S. 70° W.
- .93 Set iron U. S. Forest Reserve Boundary Post No. 16
20 ins. in ground to rock and build mound of stone,
6 ft. base, 2 ft. high, around same for witness
corner to corner of secs. 8, 9, 16 and 17, marked:
No. 16 on top of cap.
W. C. on top of cap.
1905 on top of cap.
T 19 S S 9 in N. E. quadrant
R 31 E S 16 in S. E. quadrant
S 17 in S. W. quadrant
S 8 in N. W. quadrant
RESERVE in N. W. and N. E. quadrants, with 4
notches on E. and S. sides.
(On bench in view from the east). Thence continue
abrupt descent over rock ledges.
- 33.00 Creek 15 lks. wide course N. 70° E., base of 1100-
foot descent (dry in summer). Thence gradually
ascending along steep rocky N. slope.
- 36.90 Point of rocky cliff projecting from the south.
- 39.00 Side hill wash 3 lks. wide, course N.
- 40.00 Set limestone 20x8x6 ins., 15 ins. in ground for $\frac{1}{4}$
sec. corner, marked $\frac{1}{4}$ on N. face, from which:
A double live oak, 8 ins. diam., bears N. 75°45'E.,
88 lks. dist., marked RES $\frac{1}{4}$ S 9 B T
A live oak, 10 ins. diam., bears S. 56° W., 41
lks. dist., marked S 16 B T.
Build mound of stone, 3 ft. base, 1 $\frac{1}{2}$ ft. high, N.
of corner.
- Cloudy and rain three-fourths of day; no further work.
February 22, 1905.
- February 23:
At $\frac{1}{4}$ sec. corner I set off 31°46' on latitude arc
and 9°53'15" on declination arc and at 8 a.m.,
February 23, 1905, establish meridian with solar.
Thence I continue east.
- 41.80 Point of rock cliff projecting from S., thence
descending bears N. 80° W. and S. 70° E.
- 56.80 Same creek, 20 lks. wide, course S. 70° E., base of
250-foot descent, begin abrupt ascent.
- 61.00 Top of 100-foot ascent on south point of rock,
thence along steep-south slope.
- 65.00 Begin abrupt descent bears N. E. and S. 80° W.
- 68.00 Base of 120-foot descent bears N. 70° E. and S. 70° W.,
thence across creek bottom in canyon.
- 73.00 Same creek, 20 lks. wide, 8 ins. deep (storm water)
course N. 70° E.
- 79.44 Set iron U. S. Forest Reserve Boundary Post No. 17
28 ins. in ground and build mound of stone, 4 ft.
base, 1 $\frac{1}{2}$ ft. high, around same, for W. C. to cor-
ner of secs. 9, 10, 15 and 16, marked:
W. C. on top of cap.
No. 17 on top of cap. 1905 on top of cap.
T 19 S S 10 in N. E. quadrant
R 31 E S 15 in S. E. quadrant
S 16 in S. W. quadrant
S 9 in N. W. quadrant
RESERVE in N. W. quadrant, with 4 notches on S.
and 3 on E. sides.
- 80.00 Set porphyry limestone 18x14x5 ins., 15 ins. in ground,
for corner of secs. 9, 10, 15 and 16, marked with
3 notches on E. and 4 on S. faces, from which:
A live oak, 10 ins. diam., bears N. 88° E., 31
lks. dist., marked T 19 S R 31 E S 10 B T
A live oak, 8 ins. diam., bears S. 80° E., 197
lks. dist., marked T 19 S R 31 E S 15 B T

CHIRICAHUA FOREST RESERVE BOUNDARY.

T. 19 S., R. 31 E.

- Chains. A live oak, 6 ins. diam., bears S. 51° W., 36 lks. dist., marked T 19 S R 31 E S 16 B T
A live oak, 8 ins. diam., bears N. 72°30' W., 73 lks. dist., marked RES T 19 S R 31 E S 9 B T
- Corner falls on steep N. slope of bench bank, 30 ft. above creek to N. Iron post is on top of bank.
Land, mountainous and precipitous.
Soil, bare rock and rocky, 4th rate.
Timber, live oak, dense brush of oak and manzanita along creek.
-
- At this corner I set off 9°50'30" S. on declination arc and at 13^m35^s past noon, l.m.t., observe sun on meridian and obtain reading of 31°46' on latitude arc.
- From corner of secs. 9, 10, 15 and 16, I run N. 0°02' W. on true line between secs. 9 and 10, through timber and brush descending.
- .65 Creek, 20 lks. wide, 12 ins. deep (storm water), course S. 60° E., base of 30-foot descent, thence across flat.
- 4.50 Begin rocky ascent bears N. 70° W. and S. 70° E.
8.80 East end of rock ledge bears N. 60° E. and S. 60° W.
14.00 Side hill wash, 4 lks. wide, course W.
38.90 Mark cross (+) on ledge in place, 4 ft. wide, 2 ft. high, length indefinite, for W. C. to $\frac{1}{4}$ sec. corner, marked "W. C. $\frac{1}{4}$ " W. of cross and build mound of stone, 2 $\frac{1}{2}$ ft. base, 2 ft. high, W. of cross.
38.95 South wall of rock cliff, 50 ft. high, bears N. 60° W. and S. 60° E.
40.00 On true line, falls on W. point of rock cliff 750 ft. above creek.
38.90 Offset 93 lks. west to pass cliff, thence N. 0°02' W., 235 lks.; thence east 93 lks. to true line at
41.25 Thence along rocky broken west slope of butte.
53.00 Side hill wash, 3 lks. wide, course S. W.; east of line 2.00 chs. dist., is low saddle connecting butte with main ridge and bears N. 20° W. and S. 20° E.; begin ascent bears N. E. and S. 60° W.
64.00 Top of 250-foot ascent on S. E. slope of ridge; thence along E. slope of same.
70.00 Begin descent bears N. W. and S. E.
75.40 Descend 50-foot rock ledge bears N. W. and S. E.
79.92 Set iron U. S. Forest Reserve Boundary Post No. 18 28 ins. in ground and build mound of stone 5 ft. base, 1 $\frac{1}{2}$ ft. high, around same, for W. C. to corner of secs. 3, 4, 9 and 10, marked:
No. 18 on top of cap.
W. C. on top of cap.
1905 on top of cap.
T 19 S S 3 in N. E. quadrant
R 31 E S 10 in S. E. quadrant
S 9 in S. W. quadrant
S 4 in N. W. quadrant
RESERVE in N. W. and S. W. quadrants, with 3 notches on E. and 5 on S. sides.
- 80.00 Set limestone 22x10x6 ins., 15 ins. in ground, for corner of secs. 3, 4, 9 and 10, marked 3 notches on E. and 5 on S. faces, from which:
A pine, 4 ins. diam., bears N. 34° E., 82 lks. dist., marked T 19 S R 31 E S 3 B T
North end of vertical cliff, 80 ft. high, bears S. 47°40' E., about 150 lks. dist. (no markings).
No southeast tree available.
A live oak, 5 ins. diam., bears S. 70°30' W., 73 lks. dist., marked RES T 19 S R 31 E S 9 B T

143

CHIRICAHUA FOREST RESERVE BOUNDARY.

T. 19 S., R. 31 R.

Chains. A live oak, 5 ins. diam., bears N. 69° W., 65 lks. dist., marked RES T 19 S R 31 E S 4 B T

Corner falls on steep N. E. slope, 350 ft. below line summit to south. Land, mountainous and precipitous. Soil, bare rock and rocky, 4th rate. Timber, live oak, pine and manzanita brush. February 23, 1904.

February 24: At corner of secs. 3, 4, 9 and 10, I set off 31°48' on latitude arc and 9°31'15" S. on declination arc and at 8 a.m., February 24, 1905, establish meridian with solar.

Thence I run N. 0°02' W. on true line between secs. 3 and 4, descending abruptly through small timber and brush.

6.00 Base of 150-foot descent at draw, 15 lks. wide, course S. E. for 20.00 chs., then S. 20° E. for 1 mile, where joins creek which flows near corner of secs. 9, 10, 15 and 16; thence S. 30° E. one mile to Horse Shoe Canyon; thence N. 70° E. about three or four miles to flat. Begin abrupt rocky ascent.

40.00 Mark cross (+) on boulder in place 10x6x5 ft. above ground for 1/4 sec. corner, marked 1/4 W. of cross, from which:

A live oak, 5 ins. diam., bears S. 10°45' E., 52 lks. dist., marked 1/4 S 3 B T

A live oak, 6 ins. diam., bears S. 73°15' W., 91 lks. dist., marked RES 1/4 S 4 B T;

Build mound of stone, 2 ft. base, 2 ft. high, on top of boulder W. of cross.

At the 1/4 sec. corner between secs. 3 and 4 I set off 9°28'15" S. on declination arc and at 13^m27^s past noon, l.m.t., observe sun on meridian and obtain reading of 31°48'15" on latitude arc.

41.15 Top of 1250-foot ascent bears N. 70° W. and S. 70° E., thence along east edge of rock cliff.

49.00 Begin precipitous descent bears N. W. and S. E.

53.50 Draw 10 lks. wide, course S. 60° E., base of 200-foot descent; begin abrupt ascent.

68.50 Top of 500-foot ascent on east end of spur; begin precipitous descent bears E. and W.

77.00 Draw, 10 lks. wide, course S. 60° E.; base of 350-foot descent; begin abrupt ascent.

79.20 Wash, 3 lks. wide, course S. E.

80.00 Set porphyry limestone 22x12x4 ins., 12 ins. in the ground to rock for corner of secs. 3, 4, 33 and 34, marked with 3 notches on E. and W. faces, from which:

A live oak, 6 ins. diam., bears N. 58°45' E., 54 lks. dist., marked T 18 S R 31 E S 34 B T

A live oak, 6 ins. diam., bears S. 1°10' E., 92 lks. dist., marked T 19 S R 31 E S 3 B T

A live oak, 5 ins. diam., bears S. 73°30' W., 97 lks. dist., marked RES T 19 S R 31 E S 4 B T

No other tree available. I build mound of stone, 3 ft. base, 1 1/2 ft. high, W. of corner. Corner falls on steep S. slope, 50 ft. above draw.

Land, mountainous and precipitous. Soil, bare rock and rocky, 4th rate. Timber, live oak, pine and manzanita brush. February 24, 1905.

CHIRICAHUA FOREST RESERVE BOUNDARY.

T. 19 S., R. 31 E.

Chains.

GENERAL DESCRIPTION.

T. 19 S., R. 31 E., is extremely mountainous and rough, cut with deep canyons with rock cliffs. Jackwoods Canyon heads in Secs. 19 and 30 and flows about S. 60° E.; Horse Shoe Canyon heads in secs. 6, 7 and 8, flowing south, then east and then N. 70° E., and leaving township about in sec. 13. Many small canyons form tributaries of this the main stream of the township. All streams are now running storm water, but all are dry in summer. The entire township with the possible exception of secs. 25, 36 and 35, should be included in reserve; it is covered principally with live oak, pine and juniper timber and on north hillsides is brushy and thick, undergrowth being principally scrubby live oak and manzanita brush. South half of township affords good grass.

T. 18 S., R. 31 E.

February 25:

At corner of secs. 3, 4, 33 and 34, Tps. 18 and 19 S., R. 31 E., I set off 31°48'30" on latitude arc and 9°07'45" S. on declination arc and at 10 a.m. February 25, 1905, establish meridian with solar. (Cloudy prior to 10 a.m.)

Thence I run

N. 0°02' W. on true line between secs. 33 and 34, through timber and brush ascending.

10.56

Set iron U. S. Forest Reserve Boundary Post No. 19 8 ins. in ground to rock, and build mound of stone, 7 ft. base, 3 ft. high, around same for marking of reserve boundary, marked:
No. 19 on top of cap.
1905 on top of cap.

RESERVE, in N. W. and S. W. quadrants.

On top of ridge 400 ft. above sec. corner.

Thence along E. slope of ridge.

16.50

Backbone of ridge bears N. 60° E. and S. 60° W., divide between Horseshoe Canyon on south and Sulphur Canyon on north. Begin abrupt descent, bears N. 60° E. and S. 60° W.

33.50

Creek, 10 lks. wide, 8 ins. deep, in Sulphur Canyon, course N. 60° E., base of 500-foot descent, begin abrupt ascent.

39.00

Side hill wash, course S. 30° E.

40.00

Set porphyry limestone 22x10x6 ins., 15 ins. in ground for 1/4 sec. corner, marked 1/4 on W. face, from which:

A pine, 13 ins. diam., bears N. 70°45' E., 53 lks. dist., marked 1/4 S 34 B T

A pine, 6 ins. diam., bears N. 61°15' W., 48 lks. dist., marked RES 1/4 S 33 B T

Build mound of stone, 2 ft. base, 1 1/2 ft. high, west of corner.

44.60

Top of 350-foot ascent on spur, bears N. 60° W. and S. 60° E.; box canyon of Sulphur Creek bears N. 74°30' E. about 40.00 chs. dist.; begin abrupt descent, bears N. 60° W. and S. 60° E.

51.00

Draw, 10 lks. wide, course S. E.; base of 250-foot descent; begin abrupt ascent.

62.30

Top of 500-foot ascent on spur, bears N. 60° W. and S. 60° E. Begin abrupt descent.

66.60

Draw, 10 lks. wide, course S. E. Base of 150-foot descent; begin abrupt ascent.

71.00

Top of abrupt ascent; continue gradual ascent.

77.00

Ascent becomes more abrupt.

79.93

Set iron U. S. Forest Reserve Boundary Post No. 20, 28 ins. in ground, for W. C. to corner of secs.

CHIRICAHUA FOREST RESERVE BOUNDARY.

T. 18 S., R. 31 E.

Chains. 27, 28, 33 and 34, marked:
 No. 20 on top of cap.
 W. C. on top of cap.
 1905 on top of cap.
 T 18 S S 27 in N. E. quadrant
 R 31 E S 34 in S. E. quadrant
 S 33 in S. W. quadrant
 S 28 in N. W. quadrant
 RESERVE in N. W. and S. W. quadrants, with 3 notches on E. and 1 on S. sides, and build mound of stone, 5 ft. base, 1 1/2 ft. high, around post.
 80.00 Set porphyry limestone 22x14x12 ins., 15 ins. in ground, for corner of secs. 27, 28, 33 and 34, marked 3 notches on E. and 1 on S. faces, from which:
 A pine, 14 ins. diam., bears S. 40°45' E., 66 lks. dist., marked T 18 S R 31 E S 34 B T
 A pine, 10 ins. diam., bears S. 85°45' W., 33 lks. dist., marked RES T 18 S R 31 E S 33 B T
 A pine, 6 ins. diam., bears N. 75°30' W., 54 lks. dist., marked RES T 18 S R 31 E S 28 B T
 No other tree available.
 Land, mountainous and precipitous.
 Soil, bare rock and rocky, 4th rate.
 Timber, pine, live oak and manzanita brush.
 Cloudy at noon.

February 25, 1905.

Cloudy and rain February 26th, 27th 28th and March 1st. March 2:

At corner of secs. 27, 28, 33 and 34, I set off 31°49'15" on latitude arc and 7°15'45" S. on declination arc and at 9 a.m. establish meridian with solar.
 Thence I run
 N. 0°02' W. on true line between secs. 27 and 28, ascending through timber and dense brush.
 2.50 Top of ascent 30 ft. above sec. corner bears N. E. and S. 60° W., divide between Sulphur Canyon on S. and Cave Creek on N. W., 5.00 chs. east of saddle in ridge; thence gradual descent along steep west slope.
 21.80 Side hill draw, 3 lks. wide, course W.
 No more work for day on account of dense fog, clouds and rain.

March 3, rain. March 2, 1905.
 March 4: At 8 a.m. continue same line.

28.70 Side hill draw 3 lks. wide, course W.
 33.35 Draw, 8 lks. wide, course W. for 7.00 chs., then N. W. into Cave Creek; base of 500 ft. descent; begin abrupt ascent bears E. and W.
 40.00 Set porphyry limestone 18x14x8 ins., 10 ins. in ground, for 1/4 sec. corner marked 1 on W. face, from which:
 A pine, 5 ins. diam., bears N. 11° E., 45 lks. dist., marked 1/4 S 27 B T
 A pine, 7 ins. diam., bears N. 56° W., 52 lks. dist., marked RES 1/4 S 28 B T
 Build mound of stone, 3 ft. base, 2 ft. high, W. of corner. Corner falls on S. W. slope of ridge 150 ft. above draw. Thence ascending bears N. 20° W. and S. E.
 47.60 Slide rock swailcourse W.
 53.00 Line summit 250 ft. above draw on rocky W. slope of spur. Thence descending bears N. 20° E. and S. 20° W.
 62.00 Draw, 5 lks. wide, course S. 70° W., base of 250-

179

CHIRICAHUA FOREST RESERVE BOUNDARY.

T. 18 S., R. 31 E.

- Chains. foot descent; begin abrupt ascent.
- 69.40 Top of 225-foot ascent on spur bears E. and W.; begin abrupt descent.
- 77.70 Draw, 15 lks. wide, course S. 60° W., base of 300-foot descent; begin abrupt ascent.
- 80.00 Set porphyry limestone 22x12x5 ins., 15 ins. in ground, for corner of secs. 21, 22, 27 and 28, marked 2 notches on S. and 3 on E. faces, from which:
- A pine, 8 ins. diam., bears N. 35° E., 7 lks. dist., marked T 18 S R 31 E S 22 B T
 - A pine, 14 ins. diam., bears S. 74° E., 20 lks. dist., marked T 18 S R 31 E S 27 B T
 - A pine, 10 ins. diam., bears S. 32°45' W., 11 lks. dist., marked RES T 18 S R 31 E S 28 B T
 - A pine, 14 ins. diam., bears N. 76° W., 49 lks. dist., marked RES T 18 S R 31 E S 21 B T
- Build mound of stone, 2½ ft. base, 2 ft. high, west of corner, on steep south slope 100 ft. above draw.
- Land, mountainous and broken.
Soil, rocky, 4th rate.
Timber, pine, live oak, fir and juniper; dense oak and manzanita brush.
- March 4, 1905.

Cloudy and rain March 5th, 6th, 7th, 8th. Snow 9th.
March 10:

At corner of secs. 21, 22, 27 and 28 I set off 31°50' on latitude arc and 4°09'15" S. on declination arc and at 10 a.m. establish meridian with solar. (Cloudy prior to 10 a.m.).

Thence I run

- N. 0°02' W. on true line between secs. 21 and 22, ascending through timber and brush.
- 13.00 Top of ascent on west slope of butte, 250 ft. above sec. corner, thence along steep west slope.
- 19.35 Wash, 3 lks. wide, course S. W., begin ascent bears E. and W.
- 22.50 Top of 50-foot ascent on ridge bears E. and W., at which point I set iron U. S. Forest Reserve Boundary Post No. 21, 14 ins. in ground to rock, and build mound of stone, 6 ft. base, 2½ ft. high, around same, for reserve boundary marking on prominent summit, marked:
- 1905 No. 21 on top of cap.
 - RESERVE in N. W. and S. W. quadrants on top of cap; no other markings; from which:
 - A juniper, 10 ins. diam., bears N. 30° E., 40 lks. dist., marked B P No. 21 B T
 - A juniper, 10 ins. diam., bears N. 40° W., 64 lks. dist., marked RES B P No. 21 B T
- 23.00 Begin abrupt descent bears E. and W.
- 34.50 Draw 10 lks. wide, course N. 70° W., base of 350-foot descent; begin abrupt ascent.
- 40.00 Set porphyry limestone 18x12x10 ins., 6 ins. in ground, to rock, and build mound of stone, 2 ft. base, 1 ft. high around same, for ¼ sec. corner, marked ¼ on W. face, from which:
- A pine, 12 ins. diam., bears S. 33°15' E., 29 lks. dist., marked ¼ S 22 B T
 - A pine, 10 ins. diam., bears S. 39°45' W., 28 lks. dist., marked RES ¼ S 21 B T
- 41.00 Top of 120-foot ascent on spur bears E. and W.; begin descent.
- 49.50 Draw, 5 lks. wide, course N. W.; thence gradual descent along steep W. slope.
- 62.50 Ravine, 50 ft. deep (base of 150-foot descent),

181

CHIRICAHUA FOREST RESERVE BOUNDARY.

T. 18 S., R. 31 E.

- Chains. course S. 70° W., begin abrupt ascent.
 71.00 Top of 200-foot ascent (abrupt), continue gradual ascent, bears N. W. and S. E.
 78.80 Side hill wash, 5 lks. wide, course S. W.
 80.00 Set porphyry limestone 22x14x6 ins., 12 ins. in ground, for corner of secs. 15, 16, 21 and 22, marked with 3 notches on S. and E. faces, from which:
- A live oak, 5 ins. diam., bears N. 85°15' E., 71 lks. dist., marked T 18 S R 31 E S 15 B T
 - A live oak, 6 ins. diam., bears S. 54°30' E., 60 lks. dist., marked T 18 S R 31 E S 22 B T
 - A live oak, 7 ins. diam., bears S. 71°15' W., 51 lks. dist., marked RES T 18 S R 31 E S 21 B T
 - A live oak, 6 ins. diam., bears N. 77° W., 20 lks. dist., marked RES T 18 S R 31 E S 16 B T

and build mound of stone, 2½ ft. base, 2 ft. high west of corner.

On south slope 250 feet above ravine.

Land, mountainous and precipitous.

Soil, rocky, bare and slide rock, 4th rate.

Timber, live oak, pine and juniper, oak and manzanita brush.

Cloudy at noon.

March 10, 1905.

March 11:

At corner of secs. 15, 16, 21 and 22, I set off 31°51' on latitude arc and 3°47'15" S. on declination arc, and at 8 a.m., March 11, 1905, establish meridian with solar.

Thence I run

N. 0°02' west between secs. 15 and 16, ascending through brush and scattering timber.

- 3.65 Top of partially bare grassy ridge bears N. 70° W. and S. 70° E., at which point I set iron U. S. Forest Reserve Boundary Post No. 22, 26 ins. in ground, and build mound of stone, 5 ft. base, 1½ ft. high, around same for boundary line marking on prominent summit, marked:

1905 No. 22 on top of cap.

RESERVE in N. W. and S. W. quadrants on top of cap. No other marks. From which:

A juniper, 22 ins. diam., bears N. 23°45' E., 19 lks. dist., marked B P No. 22 B T

No other tree available.

- 4.00 Begin descent, bears N. 70° W. and S. 70° E.
 9.20 Descent becomes abrupt, bears E. and W.
 15.00 Draw 15 lks. wide, course W; base of 250-foot descent; begin abrupt ascent.
 22.00 Top of 250-foot ascent bears E. and W.
 27.30 Begin precipitous descent over rock ledges and pinnacles bears E. and W.
 38.15 East end of 50-foot vertical ledge on line.
 39.10 Mark cross (+) on west side of angular rock pinnacle 50 ft. N. and S. and 20 ft. E. and W. and 30 ft. high, ½ W C, west of cross for witness corner to sec. corner. From cross:
 A live oak, 4 ins. diam., bears S. 71° W., 27 lks. dist., marked RES W C ½ S 16 B T
 No east tree available on account of rock pinnacle, and build mound of stone, 3 ft. base, 2 ft. high, west of cross. Marking on pinnacle about 1 ft. above ground. Cross on a 4-inch bench of rock, ½ W C on vertical side below cross.

183

CHIRICAHUA FOREST RESERVE BOUNDARY.

T. 18 S., R. 31 E.

- Chains. On steep north slope 500 ft. below summit. I set off 3°44' S. on declination arc and at 10^m17^s past noon, l.m.t., March 11, 1905, observe sun on meridian and obtain reading of 31°51'30" on latitude arc.
- 40.00 True point for $\frac{1}{4}$ sec. corner in slide rock too steep to set corner.
- 52.50 Draw, 10 lks. wide, course N. 60° W., base of 1200 foot descent, begin abrupt ascent over ledges and slide rock.
- 72.00 Top of 400-foot ascent bears N. 60° W. and S. 60° E., thence along gradual W. slope.
- 75.59 Set porphyry limestone 22x16x6 ins., 15 ins. in ground, for witness corner to corner of secs. 9, 10, 15 and 16, marked with 3 notches on E. and with 4 notches and W. C. on S. faces. From which:
A pine, 8 ins. diam., bears S. 40°15' E., 24 lks. dist., marked W C T 18 S R 31 E S 15 B T
A pine, 12 ins. diam., bears S. 47°15' W., 48 lks. dist., marked RES W C T 18 S R 31 E S 16 B T
No other trees available.
- 75.69 Set iron U. S. Forest Reserve Boundary Post No. 23, 14 ins. in ground to rock, and build mound of stone, 6 ft. base, 2 $\frac{1}{2}$ ft. high, around same for W. C. to corner of secs. 9, 10, 15 and 16, marked:
No. 23 on top of cap.
1905 on top of cap.
W C on top of cap.
T 18 S S 10 in N. E. quadrant
R 31 E S 15 in S. E. quadrant
S 16 in S. W. quadrant
S 9 in N. W. quadrant
RESERVE in N. W. and S. W. quadrants, with 4 notches on S. and 3 on E. sides.
- 75.95 Begin precipitous descent of cliff bears E. and W.
- 80.00 True point for corner of secs. 9, 10, 15 and 16 falls on nearly vertical side of cliff, where it would be impracticable to mark corner, 400 ft. below W. C. on summit.
- Land, mountainous and precipitous.
Soil, rocky, bare and slide rock, 4th rate.
Timber, live oak, pine and juniper, oak and manzanita brush.

March 11, 1905.

March 12:

- At true point for corner of secs. 9, 10, 15 and 16, which is 4.41 chs. north of W. C., I set off 31°52' on latitude arc and 3°23'30" S. on declination arc, and at 8 a.m., March 12, 1905, establish meridian with solar.
- Thence I run
N. 0°02' W. on true line between secs. 9 and 10, descending abruptly side of cliff.
- 6.50 Draw, 20 lks. wide, course N. 60° W., base of descent 250 ft. below true point for sec. corner and 650 ft. below W. C. Begin precipitous ascent.
- 13.70 Top of 300-foot ascent on west point of rock ledge, 50-foot vertical sides, 4 ft. wide on top; thence over very broken ledges.
- 16.60 Offset west 3.33 chs. to pass through gap in 100-foot vertical ledge.
- Thence N. 0°02' W.
21.81 Summit of ridge in 12-foot gap in ledge.
23.07 Offset, additional, west 1.47 chs. to pass vertical cliff to the N.

CHIRICAHUA FOREST RESERVE BOUNDARY.

T. 18 S., R. 31 E.

- Chains. Thence ^N 0°02' W. on same measurement, descending abruptly.
- 39.00 Take up offset east (3.33 + 1.47) 4.80 chs. to true line at base of 400-foot vertical cliff bears N. 60° E. and S. 60° W.
- Thence N. 0°02' W. on true line.
- 39.90 Mark cross (+) on boulder in place 2x2x1½ ft. above ground for W. C. to ¼ sec. corner, marked ¼ W. C., under cross on west side of boulder, from which:
- A pine, 12 ins. diam., bears S. 77°30' E., 50 lks. dist., marked W C ¼ S 10 B T
 - A live oak, 5 ins. diam., bears S. 51°30' W., 73 lks. dist., marked RES W C ¼ S 9 B T
- and build mound of stone 3 x 2 ft. west of boulder.
- 40.00 True point for ¼ sec. corner falls in small wash, 2 lks. wide, course W. Thence descending bears N. E. and S. W.
- 54.25 Base of descent; enter bottom land about 800-feet below summit of cliff where true line would cross.
- 67.30 Cave Creek, 30 lks. wide, 4 ft. deep, (storm water, though possibly runs some through summer, as sycamore grows along banks), course N. 70° E., about 3.00 chs. west is junction of main prong from west and south fork from southwest.
- 72.10 Road bears N. 60° E. and S. 70° W.
- 72.50 Set iron U. S. Forest Reserve Boundary Post No. 24, 24 ins. in ground, and build mound of stone, 5 ft. base, 1½ ft. high, around same for boundary line marking, marked:
- 1905 No. 24 on top of cap.
 - RESERVE in N. W. and S. W. quadrants, on top of cap; no other markings; from which:
 - A live oak, 22 ins. diam., bears N. 65°30' E., 119 lks. dist., marked B. P. No. 24 B T
 - A live oak, 26 ins. diam., bears N. 35°15' W., 176 lks. dist., marked RES B. P. No. 24 B T
- 76.75 Leave bottom land and begin abrupt rocky ascent, bears N. E. and S. 60° W.
- 80.00 Set porphyry limestone 22x12x8 ins., 15 ins. in ground, for corner of secs. 3, 4, 9 and 10, marked 5 notches on S. and 3 on E. faces, from which:
- A live oak, 6 ins. diam., bears N. 20°30' E., 69 lks. dist., marked T 18 S R 31 E S 3 B T
 - A live oak, 6 ins. diam., bears S. 57°15' E., 15 lks. dist., marked T 18 S R 31 E S 10 B T
 - A live oak, 14 ins. diam., bears S. 39°30' W., 70 lks. dist., marked RES T 18 S R 31 E S 9 B T
 - A live oak, 18 ins. diam., bears N. 60°15' W., 130 lks. dist., marked RES T 18 S R 31 E S 4 B T
- On steep southeast slope 100 ft. above creek bottom. Land, mountainous, precipitous and level. Soil, rocky and bare rock, 4th rate, sandy loam and gravelly in creek bottom, 2nd rate. Timber, pine, live oak, juniper, sycamore and fir. No noon observation on account of being cloudy.
- March 15, 1908.

March 13:

Cloudy until 2 p.m.

At corner of secs. 3, 4, 9 and 10, I set off 31°03' on latitude arc and 2°54'45" S. on declination arc and at 2 p.m., March 13, 1908, establish meridian with solar.

Thence from this corner I blaze line

N. 0°02' W. 18.00 chs. to base of impassable rock cliff.

Thence from corner of secs. 3, 4, 9 and 10 I offset

187

CHIRICAHUA FOREST RESERVE BOUNDARY.

T. 18 S., R. 31 E.

- Chains. East 12.25 chs. to pass east end of cliff, thence N. 0°02' W. 29.57 chs.
- 29.57 Offset, additional, E. 10.33 chs., thence at 22.58 E. of line run N. 0°02' W. 14.85 chs. Thence west 22.58 chs. to true line.
- 44.42 On true line, thence S. 0°02' E. 4.20 chs., and at
- 40.22 On true line set limestone 18x12x8 ins., 12 ins. in ground, for W. C. to $\frac{1}{4}$ sec. corner, marked W C $\frac{1}{4}$ on W. face, from which:
- A pine, 10 ins. diam., bears N. 18° E., 26 lks. dist., marked $\frac{1}{4}$ S 3 B T
- A live oak, 12 ins. diam., bears S. 85° W., 11 lks. dist., marked RES $\frac{1}{4}$ S 4 B T
- 40.00 True point for $\frac{1}{4}$ sec. corner 22 lks. S. falls in wash at foot of north base of 300-foot cliff; course of wash N. 30° E.; cliff bears N. 80° E. and S. 80° W. Thence descending over rocky broken surface through timber N. 0°02' W.
- 50.50 Draw, 10 lks. wide, course N. 80° E.
- 53.98 Intersect N. boundary of township 18.07 chs. N. 87°24' W. of corner of secs. 33 and 34, which corner is described later. (The bearing N. 87°24' W. is true bearing of south boundary of sec. 33, as shown in later notes.
- Point of intersection (March 21st) falls on limestone boulder 10x8x3 ft. above ground, at which point I mark cross with C C on S., 3 notches on E. and W. of cross (" $\frac{1}{4}$ ") from which:
- A live oak, 12 ins. diam., bears S. 18° E., 130 lks. dist., marked CC T 18 S R 31 E S 3 B T
- A live oak, 7 ins. diam., bears S. 16°30' W., 53 lks. dist., marked RES CC T 18 S R 31 E S 4 B T

Land, mountainous and precipitous.
Soil, bare rocky and stony 4th rate.
Timber, live oak and pine (small).

March 13 and 21, 1905.

GENERAL DESCRIPTION.

T. 18 S., R. 31 E., is very mountainous and precipitous, with rocky crags and cliffs, timbered with live oak, pine and juniper, with oak and manzanita brush on tops and north slopes of mountains, and affords some grasses.

Cave Creek, the principal drainage, enters township near corner of secs. 6 and 7 and leaves on north boundary of sec. 3; affords some water through summer months. South Fork of this creek heads in southwest portion of township and enters main creek in sec. 9. Small ranch of S. R. Reed is near corner of secs. 5, 6, 7 and 8, on Cave Creek. A cave of some note is situated in sec. 7; many other small caverns in cliffs in western portion of township. The east half of township should be included in the reserve and possibly the west tier of secs. of R. 32 E., as rugged mountains extend three and four miles east of present reserve line. The best timber and some of highest mountains are now without the reserve.

Note: S.B. Reed, P.O. Address Paradise, Arizona, has lived on Cave Creek thirty years and from his personal knowledge is prepared to testify that the range line between Rgs. 30 and 31 E., through Tps. 18 and 19 S., was never run across the mountains, as is reported by General Land Office. West boundary of sec. 6, T. 18 S., R. 31 E., was run south to corner of secs. 1, 6, 7 and 12, this corner

189
CHIRICAHUA FOREST RESERVE BOUNDARY.

T. 17 S., R. 31 E.

Chains. being reached about 10 a.m. The party continued south from here and returned to camp on Cave Creek for dinner, and to his knowledge never returned to the line.

March 22, 1905, Roy R. Reed discharged.

March 21, 1905, J. M. Carmichael resigned.

Jas. Harrington transferred from axeman to rodman in place of Carmichael; Chas. Jean employed as moundman March 24th vice Reed. Louis Warner employed as axeman March 23rd vice Harrington.

March 15:

As I am unable to find corner of secs. 33 and 34 on south boundary of T. 17 S., R. 31 E., I begin at corner of secs. 20, 21, 28 and 29 (its position being known by Supervisor McGlone), T. 17 S., R. 31 E.

At this corner (described on true line) I set off $31^{\circ}55'30''$ on latitude arc and $2^{\circ}12'45''$ S. on declination arc and establish meridian with solar at 7.30 a.m., March 15, 1905,

Thence I run

South on random retracement line between secs. 28 and 29.

40.00 No trace of $\frac{1}{4}$ sec. corner¹

80.03 Intersect E. and W. line 2.41 chs. east of corner of secs. 28, 29, 32 and 33 (described later).

At this corner I set off $2^{\circ}09'30''$ S. on declination arc and at $9^{\text{m}}12^{\text{s}}$ past noon, l.m.t., observe sun on meridian and obtain reading of $31^{\circ}54'30''$ on latitude arc.

Thence from corner secs. 28, 29, 32 and 33 I run

S. $1^{\circ}00'$ W. on a random line between secs. 32 and 33.

40.00 No trace of $\frac{1}{4}$ corner; set stake for temporary corner.

March 15, 1905.

March 16th and one-half day 17th cloudy.

March 17th, 2 p.m.:

80.00 No trace of corner of secs. 32 and 33; set stake for temporary corner secs. 32 and 33.

Thence from this ~~wink~~ stake I run

East on a random line on south boundary sec. 33.

March 17, 1905.

March 18:

74.46

Corner of secs. 33 and 34 bears S. 9.05 chs. dist., which is a porphoritic limestone $20 \times 10 \times 5$ ins., set on top of rock surface, in mound of stone, and witnessed by four bearing trees not called for in notes, and according to testimony of MR. S. B. Reed of Paradise, Arizona, were marked several weeks after survey was made, he thinks by Land Office Inspector. Reed certifies to original position of corner and says he was present when it was set. I chop out the S. E. and S. W. bearing trees and place mound of stone N. of corner, making it corner common to secs. 33 and 34 only. The line between secs. 32 and 33 and also line on south boundary of secs. 33 and 32 has never been run as notes plainly prove. This corner was set by line from the north. There is therefore a large error either in bearing of line between secs. 28 and 23, or in measurement of line between secs. 33 and 34.

As my line (random) just run on south boundary of sec. 33 is so far off from this corner as to make notes useless, I therefore rerun same.

March 18, 1905.

CHIRICAHUA FOREST RESERVE BOUNDARY.

T. 17 S., R. 31 E.

- Chains. March 21:
 At corner of secs. 3 and 34 I set off $31^{\circ}53'45''$ on latitude arc and $09^{\circ}15''$ N. on declination arc, and at 7.30 a.m., March 21, 1905, establish meridian with solar.
- Thence I run
 N. 88° W. on random line along south boundary sec. 33.
- 40.00 Set temporary stake; no trace of old corner.
- 80.00 Set temporary stake for corner of secs. 32 and 33; no trace of old corner and notes prove conclusively that the line was never run.
- Thence from this stake I run
 N. 88° W. on random line along south boundary sec. 32.
- 40.00 Falls on inaccessible cliff. March 22:
 74.61 Corner secs. 31 and 32 bears N. 163 lks. distant Thence returning to corner of secs. 33 and 34 on south boundary of T. 17 S., R. 31 E., from which I run
 N. $87^{\circ}24'$ W. on true line along south boundary sec. 33 over broken rocky surface, through timber and brush.
- .50 Draw, 10 lks. wide, course N. 80° E.
 9.50 Draw, 10 lks. wide, course N. 70° E.
 18.07 Intersect C. C. of secs. 3 and 4, previously described.
- 18.19 Set iron U. S. Forest Reserve Boundary Post No. 25, 28 ins. in ground, for W. C. to C. C. with mound of stone, 6 ft. base, $1\frac{1}{2}$ ft. high, around post, marked:
 No. 25 on top of cap.
 W C on top of cap S. of center.
 C C
 R 31 E S 3 in S. E. quadrant
 T 18 S S 4 in S. W. quadrant
 RESERVE in S. W. quadrant
 1905 on top of cap, with 3 notches on E. and W. sides.
- Thence ascending N. and S. W. over large boulders and ledges, through scattering timber.
- 38.65 True point for $\frac{1}{2}$ sec. corner (by proportional dist.) falls on 15-foot vertical ledge.
- 38.80 I mark a cross on top of ledge for witness $\frac{1}{2}$ sec. corner marked W C $\frac{1}{2}$ N. of cross (), from which:
 A live oak, 10 ins. diam., bears N. $62^{\circ}45'$ W., 21 lks. dist., marked W C $\frac{1}{2}$ S 33 B T
 No other trees available; I build mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cross.
- 40.00 Begin precipitous ascent of nearly vertical cliff.
- 43.00 Top of 300-foot cliff bears N. E. and S. W.; thence gradual ascent over bench.
- 49.00 Begin nearly vertical ascent of cliff bears N. 20° E. and S. 20° W.
- 63.00 Top of cliff on south side of bare rock-jagged butte 2200 ft. above corner of secs. 33 and 34; thence over south slope of top of jagged rocks.
- 74.00 Head of draw, course S.; thence over broken surface through brush.
- 77.25 Set iron U. S. Forest Reserve Boundary Post No. 26, 28 ins. in ground, and build mound of stone, 5 ft. base, $1\frac{1}{2}$ ft. high, around same for witness corner to corner of secs. 32 and 33, marked:
 No. 26 on top of cap.
 1905 on top of cap.
 W. C. on top of cap.
 T 17 S S 33 in N. E. quadrant
 R 31 E S 32 in N. W. quadrant
 RESERVE in S. E., S. W. and N. W. quadrants, with 4 notches on E. and 2 on W. sides.

193

CHIRICAHUA FOREST RESERVE BOUNDARY.

T. 17 S., R. 31 E.

Chains.

77.30 Set porphyry limestone 18x10x6 ins., 12 ins. in ground, for corner of secs. 32 and 33, marked with 4 notches on E. and 2 on W. faces, with mound of stone 3 x 1½ ft. N. of corner. No bearing trees available; pits impracticable. Land, mountainous, broken and precipitous. Soil, bare rock and rocky, 4th rate. Timber, live oak, pinion and juniper.
March 21, 1905.

Final position of this corner is $(9.05 - 2.62 - .82) = 5.61$ chs. S. 1° W. and $(5.54 - .70) = 2.84$ N. 88° W. of temporary stake. Set on line at 80.00 S. 1° W. between 32 and 33.

March 22:

From corner of secs. 32 and 33 just set by me I run N. 87°24' W. on true line along S. boundary of sec. 32 over rolling and broken rocky surface through brush.

9.70 Head of draw, course S.
14.80 Backbone of ridge bears N. and S.; begin steep descent.
17.60 Descend 250-foot vertical cliff.
38.65 True point for ¼ sec. corner (by proportional measurement) falls on slide rock.
46.70 Wash, 8 lks. wide, course N. W.
48.00 At a point 9.35 chs. N. 87°24' W. of true point mark cross on ledge in place, 5 ft. high, 20 ft. N. and S. and indefinite to the east, mark ¼ W C N. of cross (¼) from which:
An oak, 5 ins. diam., bears N. 65° E., 19 lks. dist., marked W C ¼ S 32 B T
No other trees available, and build mound of stone 2 ft. base, 2 ft. high, west of cross, on ground. (Too steep for mound North of W. C.)
53.00 Draw, 15 lks. wide, course S. W., base of 1400-foot descent.
56.50 Draw, 10 lks. wide, course S. 20° W., begin rocky broken ascent.
77.30 Corner of secs. 31 and 32, which is a porphyry limestone 8x12x4 ins. above ground, from which:
old bearing trees:
An oak, 4 ins. bears N. _____ E., 19 lks.
An oak, 5 ins., bears N. _____ W., 14 lks., with mound of stone north of corner. (Have not copy of old notes on this corner and inadvertently omitted bearings of trees).
Land, mountainous and precipitous.
Soil, rocky, 4th rate.
Timber, pinion, oak and juniper.
March 22, 1905.

March 23:

The south boundary of sec. 31 was run before I found corner of secs. 31 and 32, as follows:

From a point 163 lks. S. of corner of secs. 31 and 32 I run

39.08 N. 88° W. on random line (offset) south of sec. 31. ¼ sec. corner bears N. 55 lks. dist. (found on returning).

Thence I continue same course and measurements without setting over ¼ on same line.

77.33 Corner of Tps. 17 and 18 S., Rs. 30 and 31 E., bears N. 26 lks. dist.

Thence returning to corner secs. 31 and 32, from which I run

N. 89°33' W. on true line on south boundary sec. 31,

195

CHIRICAHUA FOREST RESERVE BOUNDARY.

T. 17 S., R. 31 E.

- Chairs. rocky descent through timber and brush.
 5.00 Base of 80-foot descent bears N. 20° W. and S. 20° E.
 Thence over bench.
 19.40 Swail drains to S. 20° E.
 21.90 Begin descent bears N. and S.
 31.70 Draw, 10 lks. wide, course S., base of 50-foot de-
 scent; thence over rolling surface.
 39.08 The $\frac{1}{4}$ sec. corner which is a limestone 12x8x5 ins.,
 lying on top of ground, correctly marked. I set
 8 ins. in ground, from which: old bearing tree:
 A live oak, 10 ins. diam., bears S. 86° W., 53
 lks. dist., which I chop out, as this is now
 $\frac{1}{4}$ of sec. 31, only. New bearing trees:
 A live oak, 5 ins. diam., bears N. 52°15' E.,
 28 lks. dist., I mark $\frac{1}{4}$ S 31 B T
 A live oak, 12 ins. diam., bears N. 16°45' W.,
 66 lks. dist., I mark $\frac{1}{4}$ S 31 B T
 Thence from $\frac{1}{4}$ corner I run
 N. 88°25' W. on true line on same measurement.
 44.80 Draw, 8 lks. wide, course S. 20° W.
 48.20 Draw, 15 lks. wide, course S.
 52.40 Top of 50-foot finger spur bears N. and S.
 58.80 Trail bears N. 30° W. and S. 30° E. from Paradise
 P. O. to Reed's Ranch. Elbow of creek 1.50 chs.
 south, course S. 20° E. from N. 80° W.
 62.40 Dry branch, 20 lks. wide, course S. 30° E.
 73.50 North Fork of Cave Creek, course S. 80° E., 15 lks.
 wide, 8 ins. deep, 10 ft. banks (probably dry in
 summer).
 77.33 Corner of Tps. 17 and 18 S., Rs. 30 and 31 E., which
 is a porphyry limestone 12x8x8 ins., set 2 ins.
 in ground, with mound of stone on west side of
 corner, correctly marked with 6 notches on four
 faces: I set stone 8 ins. in ground and leave corner
 otherwise as found, from which old marked bearing
 trees:
 A pine, 18 ins. diam., bears N. 48°45' E., 80
 lks. dist.,
 A pine, 16 ins. diam., bears S. 44°45' E., 116
 lks. dist.
 An oak, 14 ins. diam., bears S. 52°30' W., 16
 lks. dist.,
 A pine, 13 ins. diam., bears N. 41°30' W., 43
 lks. dist., old markings left as found.
 Land, rolling and hilly.
 Soil, rocky and gravelly, 4th rate.
 Timber, pine, oak and juniper.

March 23, 1905.

March 15th, 17th and 24th.

Corner of secs. 32 and 33, as set by me, is 5.61 chs.
 S. 1° W. and 2.84 chs. N. 88° W. from stake set at
 80.00 chs. on random line S. 1° W. between secs. 32 and
 33, which makes length of line 85.61, and falling
 2.84 chs. east of corner of secs. 32 and 33, 2.84
 chs. for dist. of 85.61 chs. is equivalent to angle
 of 1°54'.

Therefore from corner of secs. 32 and 33 I run
 N. 2°54' E. on true line between secs. 32 and 33,
 over rolling broken surface, through small brush.

- 6.40 Begin precipitous descent of cliff bears N. W. and E.
 14.00 Base of 750-foot cliff in canyon, course N. 70° E.,
 begin precipitous ascent of cliff N. E. and S. W.,
 canyon heads 5.00 chs. west of line.
 23.00 Top of 850-foot ascent on east slope of rocky butte;
 thence along broken east slope.
 33.00 Natural arch 40 feet span, 30 ft. pitch in 60-foot
 vertical ledge, 20 ft. wide, bears N. W. and S. E.,
 bears E. 4.00 chs. distant.

CHIRICAHUA FOREST RESERVE BOUNDARY.

T. 17 S., R. 31 E.

Chains.

- 34.30 Needle Eye cliff hole, 10 ft. wide, 30 ft. high, in same ledge bears E. 2.00 chs. dist., and is visible from flat and all points north and east, and a very conspicuous landmark, as the aperture is silhouetted against the sky when view from the valley to the north and east. Begin abrupt broken descent over rock ledges and pinnacles, through scattering timber and brush.
- 40.00 Draw, 10 lks. wide, course N. 20° W., very steep side hill draw.
- 42.80 Set porphyry limestone 18x10x8 ins., 12 ins. in ground, for $\frac{1}{4}$ sec. corner, marked $\frac{1}{4}$ on W. face, from which:
 A pine, 12 ins. diam., bears N. 34°15' E., 240 lks. dist., marked $\frac{1}{4}$ S 33 B T
 A pine, 24 ins. diam., bears N. 9° W., 91 lks. dist., marked RES $\frac{1}{4}$ S 32 B T
- 56.00 Isolated pillar of rock 100 ft. high, 20 ft. diam., at top, bears E. 1.20 chs.
- 73.90 Wash, 5 lks. wide, course N. W.
- 80.70 Wash, 3 lks. wide, course N. W.
- 85.10 Draw, 15 lks. wide, course N. 30° E., base of 1500-foot descent.
- 85.61 Corner of secs. 28, 29, 32 and 33, which is a porphoritic lime rock 12x5x4 ins., correctly marked, set 3 ins. in ground, with mound of stone on W. I replace with a porphoritic lime rock 22x12x7 ins., set 15 ins. in ground, marked with 1 notch on S. and 4 on E. faces, for corner of secs. 28, 29, 32 and 33, from which: (new):
 A live oak, 7 ins. diam., bears N. 34°15' E., 29 lks. dist., marked T 17 S R 31 E S 28 B T
 A live oak, 14 ins. diam., bears S. 61°30' E., 75 lks. dist., marked T 17 S R 31 E S 33 B T
 A live oak, 10 ins. diam., bears S. 68°45' W., 28 lks. dist., marked RES T 17 S R 31 E S 32 B T
 A live oak, 8 ins. diam., bears N. 41°30' W., 42 lks. dist., marked RES T 17 S R 31 E S 29 B T

Land, mountainous and precipitous.

Soil, rocky, 4th rate.

Timber, pinion, oak and juniper.

March 15, 17 and 24, 1905.

March 15:

Thence from corner of secs. 28, 29, 32 and 33, I run N. 1°43' E. on true line between secs. 28 and 29, gradually ascending along steep east slope, through timber and brush.

- .15 Set iron U. S. Forest Reserve Boundary Post No. 27, 26 ins. in ground, and build mound of stone, 6 ft. base, 2½ ft. high, around same for W. C. to corner of secs. 28, 29, 32 and 33, marked:
 No. 27 on top of cap.
 1905 on top of cap.
 W. C. on top of cap.
 T 17 S S 28 in N. E. quadrant
 R 31 E S 33 in S. E. quadrant
 S 32 in S. W. quadrant
 S 29 in N. W. quadrant
 RESERVE in N. W. and S. W. quadrants, with 4 notches on E. and 1 on S. sides.
- 15.00 Top of 100-foot ascent on spur from the southwest; begin descent, bears N. 30° E. and S. 30° W.
- 24.00 Base of 150-foot descent, at draw, 10 lks. wide, course N. 20° E.

CHIRICAHUA FOREST RESERVE BOUNDARY.

T. 17 S., R. 31 E.

- Chains.
- 37.90 Draw, 10 lks. wide, course N. E. Draw from S. 20° E. cones in at 30 lks. E. of line. Begin ascent.
- 40.02 Set porphyry limestone 22x17x8 ins., 15 ins. in ground, for $\frac{1}{2}$ sec. corner, marked $\frac{1}{2}$ on W. face, from which:
 A live oak, 14 ins. diam., bears N. 59° E., 105 lks. dist., marked $\frac{1}{2}$ S 28 B T
 A double live oak 12 ins. diam., bears N. 64° 15' W. 32 lks. dist., marked RES $\frac{1}{2}$ S 29 B T and build mound of stone, 2 $\frac{1}{2}$ ft. base, 2 ft. high, west of corner.
- 45.00 Top of 75-foot ascent bears N. E. and S. W.; thence gradual descent over rolling foothills.
- 48.00 Draw, 8 lks. wide, course N. 60° E.
- 66.75 Wash, 3 lks. wide, course N. E.
- 74.00 More abrupt descent bears N. W. and S. E.
- 79.94 Set iron U. S. Forest Reserve Boundary Post No. 28, 26 ins. in ground, for W. C. to corner of secs. 20, 21, 28 and 29, and build mound of stone, 4 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, around same. Post marked: No. 28 on top of cap.
 1905 on top of cap.
 W. C. on top of cap.
 T 17 S S 21 in N. E. quadrant
 R 31 E S 28 in S. E. quadrant
 S 29 in S. W. quadrant
 S 20 in N. W. quadrant
 RESERVE in S. W. quadrant, with 4 notches on E. and 2 on S. sides.
- 80.04 At corner of secs. 20, 21, 28 and 29, which is a porphyry lime rock 8x8x2 ins. on top of ground, with small mound of stone west of same, correctly marked. Being undersize I replace with a porphyry lime rock 24x14x3 ins., set 15 ins. in ground, for corner of secs. 20, 21, 28 and 29, marked 4 notches on E. and 2 on S. faces, from which (new):
 A juniper, 12 ins. diam., bears S. 56° 30' E., 178 lks. dist., I mark T 17 S R 31 E S 28 B T
 A juniper, 8 ins. diam., bears S. 43° 15' W., 161 lks. dist., I mark RES T 17 S R 31 E S 29 B T
 A live oak, 12 ins. diam., bears N. 83° 15' W., 175 lks. dist., I mark T 17 S R 31 E S 20 B T
 No northeast tree available, and build mound of stone 2 $\frac{1}{2}$ x 2 ft. west of corner.
 Land, hilly and broken.
 Soil, rocky and stony, 4th rate.
 Timber, live oak and juniper.

March 15, 1905.

A.M., March 24, setting corners on this line and on south boundary sec. 33.

Note: The Land Office notes show very plainly that line between secs. 32 and 33 and south boundary of secs. 32 and 33 were never run. The note at 18.00 chs. between secs. 32 and 33 of Needle Eye cliff, which should be at 34.30 chs., was simply guessed at from foot of mountain to the north, as this cliff is visible and a prominent feature.

March 24:

At corner of secs. 20, 21, 28 and 29 I set off 31° 55' 30" on latitude arc and 1° 24' 15" N. on declination arc and at 1. p.m., establish meridian with solar.

Thence I run

N. 89° 30' W. on random line between secs. 20 and 29.

201

CHELICARUA FOREST RESERVE BOUNDARY.

T. 17 S., R. 31 E.

Chains.

- 39.61 Intersect N. and S. $\frac{1}{4}$ sec. line 2 lks. S. of $\frac{1}{4}$ sec. corner.
Thence setting over $\frac{1}{4}$ corner I continue N. $89^{\circ}30'$ W. New measure.
- 39.85 Intersect N. and S. sec. line 28 lks. S. of corner of secs. 19, 20, 29 and 30.
Thence returning to corner of secs. 20, 21, 28 and 29 from which I run N. $89^{\circ}28'$ W. on true line between secs. 20 and 29, ascending through scattering timber.
- 3.00 Top of spur bears N. and S.
Thence over rolling rocky foothills.
- 12.10 Draw, 15 lks. wide, course N. 20° E. in 50-foot depression.
- 21.50 Side hill wash 3 lks. wide, course N.
- 34.00 Dry branch 25 lks. wide, course N. 30° E.
- 35.00 Draw, 8 lks. wide, course N. E.
- 39.61 At the $\frac{1}{4}$ sec. corner, which is a porphyry limestone $8 \times 5 \times 3$ ins. lying on top of ground, with small mound of stone to N. and correctly marked; being underize I replace with a porphyry lime rock $26 \times 12 \times 10$ ins., set 15 ins. in ground, and marked $\frac{1}{4}$ on N. face, from which: (new):
A live oak, 10 ins. diam., bears N. 37° E., 104 lks. dist., marked $\frac{1}{4}$ S 20 B T
A live oak, 10 ins. diam., bears S. 39° W., 55 lks. dist., marked RES $\frac{1}{4}$ S 29 B T
and build mound of stone 3×2 ft. N. of corner.
Thence from this $\frac{1}{4}$ sec. corner I run N. $89^{\circ}06'$ W. on true line.
- 21.15 Draw, 15 lks. wide, course N. E.
- 25.30 Wash, 5 lks. wide, course S. E.
- 35.00 Top of spur ridge, bears N. 20° W. and S. 20° E., divide between Silver Creek on E. and Turkey Creek on W.
- 39.85 Corner of secs. 19, 20, 29 and 30, which is a shale rock $10 \times 8 \times 8$ ins., correctly marked and lying on top of ground, in small pile of stone. I set in its place a porphyry lime rock $20 \times 14 \times 8$ ins., 12 ins. in ground (to rock, marked with 5 notches on E. and 2 on S. faces, from which (new):
A live oak, 10 ins. diam., bears S. $42^{\circ}15'$ E., 138 lks. dist., I mark RES T 17 S R 31 E S 29 B T
A live oak, 8 ins. diam., bears S. $70^{\circ}30'$ W., 157 lks. dist., I mark RES T 17 S R 31 E S 30 B T
A live oak, 10 ins. diam., bears N. 15° W., 153 lks. dist., I mark T 17 S R 31 E S 19 B T
No northeast tree available.
Land, rolling and broken.
Soil, rocky and stony, 4th rate.
Timber, scattering live oak and juniper.
March 24, 1905.

March 25:

At corner of secs. 19, 20, 29 and 30 I set off $31^{\circ}55'30''$ on latitude arc and $1^{\circ}43'45''$ N. on declination arc, and at 7 a.m., March 25, 1905, establish meridian with solar.

Thence I run

- 40.00 N. $89^{\circ}30'$ W. on a random line between secs. 19 and 30.
No trace of old $\frac{1}{4}$ corner found except on old bearing tree, which is not called for in notes, and is therefore not sufficient to establish corner.
I drive stake for temporary $\frac{1}{4}$ corner.
- 79.95 Intersect W. boundary of township 106 lks. N. of corner of secs. 19, 24, 25 and 30.
Thence returning to corner of secs. 19, 20, 29 and

203 -
MIRICAHUA FOREST RESERVE BOUNDARY.

T. 17 S., R. 31 E.

- Chains. 30, from which I run
S. 89°45' W. on true line between secs. 19 and 30,
descending rocky spur through scattering timber.
- .10 Set iron U. S. Forest Reserve Boundary Post No. 29,
18 ins. in ground to rock and build mound of
stone, 6 ft. base, 2 ft. high, around same for
W. C. to corner of secs. 19, 20, 29 and 30, marked:
No. 29 on top of cap.
1905 on top of cap.
W. C. on top of cap.
T 17 S S 20 in N. E. quadrant
R 31 E S 29 in S. E. quadrant
S 30 in S. W. quadrant
S 19 in N. W. quadrant
RESERVE in S. E. and S. W. quadrants, with 5
notches on E. and 2 on S. sides.
- 6.10 Draw, 15 lks. wide, course N. 60° W., base of 70-
foot descent; thence rolling and hilly.
- 12.50 Wash, 5 lks. wide, course N. 30° W.
- 16.50 Wood road on top of spur bears N. 30° W. and
S. 30° E.
- 20.00 Wash, 5 lks. wide, course N. 80° W.
- 26.25 Dry branch, 60 lks. wide, course N.
- 40.67 (Proportional meas. reported 78.60) set granite
18x10x6 ins., 6 ins. in ground, for $\frac{1}{4}$ sec. corner,
marked $\frac{1}{4}$ on N. face, from which:
A live oak (new), 4 ins. diam., bears N. 31° E.,
61 lks. dist., I mark $\frac{1}{4}$ S 19 B T
A live oak (old), 10 ins. diam., bears S. 29° E.,
138 lks. dist. remarked RES $\frac{1}{4}$ S 30 B T
(This tree was marked on old Survey but not
called for in notes)
and build mound of stone around corner stone and
one 2 $\frac{1}{2}$ x 2 ft. north of corner.
- 43.40 Wash, 3 lks. wide, course S. W.
- 52.10 Dry branch, 30 lks. wide, course N. 30° W.
- 53.75 Wood road, bears N. 30° W. and S. 30° E.
- 58.00 Draw, 10 lks. wide, course N.
- 63.50 Top of south point of small spur.
- 71.00 Dry branch, 40 lks. wide, course N. 30° W.
- 73.50 Dry branch, 30 lks. wide, course N. 30° E.
- 79.70 Road bears N. E. and S. W.
- 79.95 Corner of secs. 19, 24, 25 and 30. The position of
this corner is determined by mound of stone, which
is 30 lks. N. of road, as called for in notes and
old B. T., a juniper, N.W. 53 lks. and facing
this M. S. No marked stone found, but this is
deemed sufficient evidence of original position.
The old B. T. not called for in notes as is usually
the case on this man's work.
- Set quartzite rock 20x8x8 ins., 12 ins. in ground,
for corner of secs. 19, 24, 25 and 30, marked with
4 notches on N. and 2 on S. faces, from which: (new)
A live oak, 12 ins. diam., bears N. 20°30' E.,
141 lks. dist., I mark T 17 S R 31 E S 19
B T
A live oak, 14 ins. diam., bears S. 52°30' E.,
190 lks. dist., I mark RES T 17 S R 31 E
S 30 B T
A live oak, 10 ins. diam., bears S. 75°15' W.,
182 lks. dist., I mark RES T 17 S R 30 E
S 25 B T
A double live oak, 14 ins. diam., bears N. 37°15' W.,
78 lks. dist., I mark RES T 17 S R 30 E
S 24 B T
Corner falls on N. end of "Soldiers Flat" at "Camp
Emmet Crawford."
At this corner I set off 1°47'15" N. on declination
arc and at 6°15' past noon, l.m.t., March 25, 1905,

CHIRICAHUA FOREST RESERVE BOUNDARY.

T. 17 S., R. 31 E.

Chains. observe sun on meridian and obtain reading of $31^{\circ}55'30''$
on latitude arc.
Land, rolling and hilly.
Soil, rocky and stony, 4th rate.
Timber, scattering live oak and juniper.

West Boundary T. 17 S., R. 31 E.

From corner of secs. 19, 24, 25 and 30, T. 17 S.,
Rs. 30 and 31 E., I run
40.08 Farth on random line between secs. 19 and 24.
Intersect E. and W. $\frac{1}{4}$ sec. line 13 lks. west of $\frac{1}{4}$
sec. corner.
40.30 Thence from $\frac{1}{4}$ corner continue north.
Intersect E. and W. sec. line 59 lks. west of cor-
ner of secs. 13, 18, 19 and 24.
Thence returning to corner of secs. 19, 24, 25 and
30, from which I run
.10 N. $0^{\circ}11'$ E. on true line between secs. 19 and 24,
over flat through scattering timber.
Set iron U. S. Forest Reserve Boundary Post No. 30,
26 ins. in ground, and build mound of stone, 6
ft. base, $1\frac{1}{2}$ ft. high, around same, for W. C. to
corner of secs. 19, 24, 25 and 30, marked:
No. 30 on top of cap.
1905 on top of cap.
W. C. on top of cap.
T 17 S S 19 in N. E. quadrant
R 31 E S 30 in S. E. quadrant
S 25 in S. W. quadrant
R 30 E S 24 in N. W. quadrant
RESERVE in S.E., S.W. and N.W. quadrants, with
4 notches on N. and 2 on S. sides.
7.00 Slaughter pen and house bears W. $3\frac{1}{2}$ chs. dist. and
contaminates water of Turkey Creek, from which
residents of town of Paradise must drink and
should be removed from the reserve. Is held on
"mining claim".
8.70 Center of Turkey Creek 80 lks. wide, 15-foot banks,
water 15 lks. wide, 10 ins. deep, course N. 30° E.
12.50 House bears east 2.00 chs. dist.
27.20 Road bears N. 70° E. and S. 70° W.
28.20 Draw, 10 lks. wide, course N. 70° E.
30.00 About 10.00 chs. to the east settlement of Paradise
begins and continues about one-half mile, about
N. 20° E. down Turkey creek.
40.08 At $\frac{1}{4}$ sec. corner cement rock $10 \times 8 \times 6$ ins. lying on
top of ground, with small pile of stone to the
west, is correctly marked. I set in its place a
porphyry lime rock $18 \times 8 \times 6$ ins., 18 ins. in ground,
marked $\frac{1}{4}$ on W. face, from which:
A juniper, 5 ins. diam., bears S. $53^{\circ}30'$ E., 40
lks. dist., marked $\frac{1}{4}$ S 19 B T
A juniper, 4 ins. diam., bears S. 18° W., 31
lks. dist., marked RES $\frac{1}{4}$ S 24 B T
Old bearing trees in evidence but not called for in
notes. I build mound of stone $2\frac{1}{2}$ ft. x $1\frac{1}{2}$ ft. W.
of $\frac{1}{4}$ corner. Chrysty's store house and postoffice
of Paradise bears N. 43° E. (center of front)
about 12.00 chs. dist.
Thence from $\frac{1}{4}$ corner I run
6.60 N. $0^{\circ}50'$ E. on true line.
Telephone line from mine through Paradise to Rodeo
bears E. and W.
7.00 Trail Paradise to mine bears E. and W.
14.30 Road E. and W.
17.65 Road bears E. 60° W. and S. 60° E.
18.90 Draw 20 lks. wide course N. 60° E.
21.00 Draw, 15 lks. wide, course E.
26.50 School house bears W. 1.50 chs.

OHIO CANADA FOREST RESERVE BOUNDARY.

West Bdy. T. 17 S., R. 31 E.

Chains.
31.90
37.50
37.50
40.23

Draw 15 lks. wide course E.
Draw 20 lks. wide course S. E.
Spring in bed of draw bears W., 90 lks. dist.
Set upon U. S. Forest Reserve Boundary Post No. 31,
18 ins. in ground to rock, and build mound of
stone, 6 ft. base, 2 ft. high, around same, for
W. C. to corner of secs. 13, 18, 19 and 24, marked:
No. 31 on top of cap.
1905 on top of cap.
W. C. on top of cap.
T 17 S S 18 in N. E. quadrant
R 31 E S 19 in S. E. quadrant
S 24 in S. W. quadrant
R 30 E S 13 in N. W. quadrant
RESERVE in S. W. and N. W. quadrants, with 3
notches on N. and S. sides.

40.30 Corner of secs. 13, 18, 19 and 24, which is a por-
phyry lime rock 18x10x8 ins., set on top of ground
in pile of stone, and is correctly marked 3 notch-
es on N. and S. faces. I set same stone 12 ins.
in ground, from which (new):
A live oak, 6 ins. diam., bears N. 54°45' E.,
124 lks. dist., I mark T 17 S R 31 E S 18
B T
A live oak, 5 ins. diam., bears S. 61°15' E., 88
lks. dist., I mark T 17 S R 31 E S 19 B T
A live oak, 5 ins. diam., bears S. 85°30' W.,
131 lks. dist., I mark RES T 17 S R 30 E
S 24 B T
A live oak, 6 ins. diam., bears N. 32°30' W., 67
lks. dist., I mark RES T 17 S R 30 E
S 13 B T
Land, hilly and broken.
Soil, rocky and stony, 4th rate; some 2nd rate land
along Turkey Creek.
Timber, live oak and juniper, sycamore and elm along
creek.

40.00 From corner of secs. 13, 18, 19 and 24 I run
North on random line between secs. 13 and 18.
No trace of old $\frac{1}{4}$ corner; set temporary stake.
March 25, 1905.

March 26th, rain.
March 27:
At this $\frac{1}{4}$ corner (temporary) I set off 31°57' on lat-
itude arc and 2°30'45" N. on declination arc, and
at 7 a.m., March 27, 1905, establish meridian with
solar.

82.40 Thence continue north.
Intersect E. and W. sec. line 121 lks. east of corner
of secs. 7, 12, 13 and 18.
Thence returning to corner of secs. 13, 18, 19 and
24, from which I run
N. 0°51' W. on true line between secs. 13 and 18,
up rocky ascent, through brush and mescal.

24.00 Top of 350-foot ascent on spur, bears N. 60° W. and
S. 60° E.; thence along steep east slope, through
pinion brush.

35.20 Wash, 5 lks. wide, course E.
38.10 Rocky wash, 10 lks. wide, course S. 70° E.

41.20 Set limestone 18x12x8 ins., 3 ins. in shale to solid
rock for $\frac{1}{4}$ sec. corner, marked $\frac{1}{4}$ on W. face, and
build mound of stone, 2 $\frac{1}{2}$ ft. by 1 ft. around cor-
ner, and mound of stone 3x2 ft. west of corner.
No tree available, all too small; pits impracticable.

44.00 Top of spur bears N. 80° W. and S. 80° E., begin
descent through dense brush.

49.50 Draw, 10 lks. wide, course N. E.; base of 150-foot

209

CHIRICAHUA FOREST RESERVE BOUNDARY.

West Edy. T. 17 S., R. 31 E.

- Chains. abrupt descent; continue gradual descent along east slope.
- 57.50 Draw, 10 lks. wide, course N. E.
- 59.00 Draw, 10 lks. wide, course N. 80° E.
- 66.50 Draw, 10 lks. wide, course E.
- 67.85 Old road bears E. and W. to old abandoned mine about 15.00 chs. west.
- 80.70 Draw, 10 lks. wide, course S. 80° E.
- 82.40 Corner of secs. 7, 12, 13 and 18, which is a limestone 10x8x3 ins., correctly marked, lying on top of ground in pile of stone. I set in its place a limestone 18x12x10 ins., 12 ins. in ground, for corner to secs. 7, 12, 13 and 18, marked 2 notches on N. and 4 on S. sides, from which:
- An oak (new), 10 ins. diam., bears N. 25° E., 111 lks. dist., which I mark T 17 S R 31 E S 7 B T
- An oak (old), 6 ins. diam., bears S. 81° W., 57 lks. dist., re-marked RES T 17 S R 30 E S 13 B T Not called for in notes.
- An oak (old), 12 ins. diam., bears N. 49°45' W., 87 lks. dist., re-marked RES T 17 S R 30 E S 12 B T Not called for in notes.
- Corner on steep south slope.
Land, mountainous and broken.
Soil, rocky, broken, 4th rate.
Timber, pinion pine, live oak and juniper.
-
- From corner of secs. 7, 12, 13 and 18 I run North on random line between secs. 7 and 12
- 40.00 No trace of old $\frac{1}{4}$ corner; set stake for temporary corner.
- 79.60 Intersect E. and W. sec. line 75 lks. east of corner of secs. 1, 6, 7 and 12.
Thence returning to corner of secs. 7, 12, 13 and 18, from which I run
N. 0°32' W. on true line between secs. 7 and 12 over rolling rocky surface, through scattering timber ascending.
- .80 Top of 30-foot steep ascent; thence over rolling bench.
- .84 Set iron U. S. Forest Reserve Boundary Post No. 32, 12 ins. in ground to rock and build mound of stone, 7 ft. base, 2 $\frac{1}{2}$ ft. high, around same for W. C. to corner of secs. 7, 12, 13 and 18, marked:
- No. 32 on top of cap.
1905 on top of cap.
W. C. on top of cap.
T 17 S S 7 in N. E. quadrant
R 31 E S 18 in S. E. quadrant
S 13 in S. W. quadrant
R 30 E S 12 in N. W. quadrant
RESERVE in S. W. and N. W. quadrants, with 2 notches on N. and 4 on S. sides.
- 8.65 Draw, 10 lks. wide, course N. E.
- 10.00 Draw, 8 lks. wide, course E.
- 12.25 Draw, 15 lks. wide, course S. 80° E.
- 15.50 Draw, 8 lks. wide, course S. 60° E.
- 24.00 Draw, 30 lks. wide, course S. 80° E.
- 30.70 Draw, 15 lks. wide, course S. 60° E.
- 34.80 Draw, 5 lks. wide, course S. E.
- 39.80 Set granite stone 18x10x10 ins., 12 ins. in ground, for $\frac{1}{4}$ sec. corner, marked $\frac{1}{4}$ on W. face, from which new:
- A live oak, 10 ins. diam., bears S. 85° E., 136 lks. dist., which I mark $\frac{1}{4}$ S 7 B T
- A live oak, 5 ins. diam., bears N. 41°30' W., 114 lks. dist., which I mark RES $\frac{1}{4}$ S 12 B T
- At the $\frac{1}{4}$ sec. corner between secs. 7 and 12, I set off 2°34'15" N. on decl. arc and at 5^h36^m past noon 1st March 27 observe sun on mer. and

CHIRICAHUA FOREST RESERVE BOUNDARY.

West Edy. T. 17 S., R. 31 E.

Chains. obtain reading of 31°37'30" on latitude arc.
 46.80 Wash, 4 lks. wide, course S. 70° E.
 59.80 Top of 100-foot spur bears N. E. and S. W.
 69.00 Draw, 18 lks. wide, course N. 60° E., base of 100-foot descent; thence over broken surface.
 75.80 Wash, 3 lks. wide, course N. E.
 79.60 Corner of secs. 1, 6, 7 and 12, which is a granite 6x6x5 ins., correctly marked and lying on top of ground in small pile of stone. I set in its place a granite 18x12x10 ins., 12 ins. in ground, for corner of secs. 1, 6, 7 and 12, marked with 1 notch on N. and 5 on S. faces, from which (new):
 A live oak, 6 ins. diam., bears N. 44° E., 127 lks. dist., which I mark T 17 S R 31 E S 6 B T
 A live oak, 10 ins. diam., bears S. 73° E., 125 lks. dist., which I mark T 17 S R 31 E S 7 B T
 A live oak, 12 ins. diam., bears S. 1° W., 62 lks. dist., which I mark RES T 17 S R 30 E S 12 B T
 A live oak, 12 ins. diam., bears N. 88°15' W., 69 lks. dist., which I mark RES T 17 S R 30 E S 1 B T
 and build mound of stone 2½x2 ft. W. of corner.
 Land, hilly and broken.
 Soil, rocky, 4th rate.
 Timber, live oak, pinion pine and juniper.

From corner of secs. 1, 6, 7 and 12 I run North on random line between secs. 1 and 6.
 40.00 No trace of old ¼ corner; set stake for temporary ¼ corner.
 78.95 Intersect N. boundary of township 91 lks. E. of corner of townships 16 and 17 S., Rs. 30 and 31 E. Thence returning to corner of secs. 1, 6, 7 and 12, from which I run N. 0°39' W. on true line between secs. 1 and 6, over rolling broken surface, through scattering timber.
 .17 Set iron U. S. Forest Reserve Boundary post No. 33, 24 ins. in ground, and build mound of stone, 6 ft. base, 1½ ft. high, around same, for W. C. to corner of secs 1, 6, 7 and 12, marked:
 No. 33 on top of cap.
 1905 on top of cap.
 W. C. on top of cap.
 T 17 S S 6 in N. E. quadrant
 R 31 E S 7 in S. E. quadrant
 S 12 in S. W. quadrant
 R 30 E S 1 in N. W. quadrant
 RESERVE in S. W. and N. W. quadrants, with 1 notch on N. and 5 on S. sides.
 12.10 Draw, 10 lks. wide, course E., heads 3.00 chs. west of line; begin ascent.
 20.40 Top of 100-foot ascent on spur bears N. E. and S. W. Begin descent.
 39.48 Set granite stone 24x10x6 ins., 15 ins. in ground for ¼ sec. corner, marked ¼ on W. face, from which:
 A live oak, 6 ins. diam., bears N. 51°30' E., 160 lks. dist., marked ¼ S 6 B T
 An elm, 6 ins. diam., bears N. 21° W., 95 lks. dist., marked RES ¼ S 1 B T
 March 27, 1905.
 March 28:
 At this ¼ corner I set off 31°58'30" on latitude arc and 2°54'15" N. on declination arc and at 7 a.m. March 28, 1905, establish meridian with solar. Thence continue line on same corner and measurement.
 43.00 Draw, 5 lks. wide, course N. 20° E.
 46.20 Draw, 10 lks. wide, course E. 30° E.
 59.00 Creek, 100 lks. wide, 15 ft. banks, gravelly bed,

213

CHIRICAHUA FOREST RESERVE BOUNDARY.

West Bdy. T. 17 S., R. 31 E.

- Chains. Stream, 15 lks. wide, 2 ins. deep, course N. E., base of 200-foot descent. Leave timber and brush, enter rolling rocky prairie.
- 62.50 Road bears N. E. and W.
- 75.50 Draw, 20 lks. wide, course E., 12 foot banks.
- 78.95 Corner of Tps. 16 and 17 S., Rs. 30 and 31 E., which is a granite 12x8x6 ins., correctly marked and lying on top of ground, with small pile of stone to the west. Defective stone; I set in its place a granite 18x14x5 ins., 12 ins. in ground, for corner of Tps. 16 and 17 S., Rs. 30 and 31 E., marked with 6 notches on N., E., S. and W. faces, and build mound of stone, 2½ ft. base, 2 ft. high, S. of corner; pits impracticable.
- Land, hilly, broken and rolling.
- Soil, rocky and gravelly, 4th rate.
- Timber, live oak, pinion pine and brush.

GENERAL DESCRIPTION T.17 S., R.31 E.

That portion of township lying in reserve and sec. 33 are mountainous and on the south precipitous, especially secs. 32 and 33. Remainder of township is rolling, hilly and flat, with little or no timber, and affords fairly good grasses. Paradise postoffice lies in N. W. ¼ of sec. 19 and is a mining camp with about 300 population. Much prospecting is being done in central and northwestern portion of township, copper and lead being principal minerals. Principal mine of the section is near corner of secs. 13, 14, 23 and 24 of T. 17 S., R. 30 E. Turkey Creek traverses the northwestern portion of township and Cave Creek the southeast. Both afford some water through summer, though dry up on reaching the flat.

The old survey is very poor where it exists at all and was never made in the rough portions of township.

T. 16 S., Rs. 30 and 31 E.

- From the corner of Tps. 16 and 17 S., Rs. 30 and 31 E., just described, I run
- North on random retracement line between secs. 31 and 36.
- 40.00 Stake for temporary ¼ corner; no trace of old corner found.
- 80.98 Intersect E. and W. sec. line 32 lks. W. of corner of secs. 25, 30, 31 and 36.
- Thence returning to township corner, from which I run N. 0°14' E. on true line between secs. 31 and 36, over rolling rocky prairie.
- .11 I set iron U. S. Forest Reserve Boundary Post No. 34, 24 ins. in ground, and build mound of stone, 6 ft. base, 2 ft. high, around same for W. C. to corner of ~~xxxx~~ Tps. 16 and 17 S., Rs. 30 and 31 E., marked:
- No. 34 on top of cap.
1905 on top of cap.
W C on top of cap.
T 16 S S 31 in N. E. quadrant
R 31 E S 6 in S. E. quadrant
T 17 S S 1 in S. W. quadrant
R 30E S 36 in N. W. quadrant
RESERVE in S. W. and E. W. quadrants, with 6 notches on N., E., S. and W. faces.
- 5.00 Top of 40-foot ridge bears N. E. and S. W.
- .10.00 Base of ridge bears N. E. and S. W., enter flat.

CHIRICAHUA FOREST RESERVE BOUNDARY.

T. 16 S., Rs. 30 and 31 E.

Chains.

- 23.00 Wash, 5 lks. wide; 6 ft. banks, course N. E.
 27.80 Old road, bears N. E. and S. W.
 40.49 Set granite stone 18x12x12 ins., 10 ins. in ground, for $\frac{1}{4}$ sec. corner, marked $\frac{1}{4}$ on W. face, with mound of stone, 3 ft. base, 2 ft. high, west of corner; pits impracticable.
 66.50 Draw, 20 lks. wide, 6 ft. banks, course N. E.
 80.98 Corner of secs. 25, 30, 31 and 36, which is a granite stone 12x8x5 ins., correctly marked and set 3 ins. in ground, with small pile of stones west of corner. I set in its stead a granite stone 18x12x6 ins., 12 ins. in ground, for corner of secs. 25, 30, 31 and 36, marked with 5 notches on N. and 1 on S. faces, and build mound of stone 2x1 $\frac{1}{2}$ ft. west of corner; pits impracticable.
 From corner of secs. 25, 30, 31 and 36:
 An elm, 6 ins. diam., bears N. 48° W., 118 lks. dist., in bed of draw, marked RES T 16 S R 30 E S 25 BT
 No other trees within limits.
 A box house bears N. 66°12' E., about 35 chs. dist.
 Another house bears N. 49°44' E., about 50 chs. dist. (miners' cabins).
 At this corner I set off 2°57'45" N. on declination arc and at 5^h17^m past noon, l.m.t., March 28, 1905, observe sun on meridian and obtain reading of 32°00' on latitude arc.
 Land, rolling and level.
 Soil, rocky and gravelly, 4th rate.
 Timber, none; occasional clusters of "catclaw" brush.

- From corner of secs. 25, 30, 31 and 36 I run North on random retracement line between secs. 25 and 30.
 40.30 Intersect E. and W. $\frac{1}{4}$ sec. line 23 lks. E. of $\frac{1}{4}$ sec. corner.
 Thence from $\frac{1}{4}$ sec. corner run north on random.
 40.73 Intersect E. and W. sec. line 62 lks. W. of corner of secs. 19, 24, 25 and 30.
 Thence returning to corner of secs. 25, 30, 31 and 36, from which I run
 N. 0°20' W. on true line between south half secs. 25 and 30, over stony prairie flat.
 .10 Set iron U. S. Forest Reserve Boundary Post No. 35, 28 ins. in ground, and build mound of stone, 4 ft. base, 1 $\frac{1}{2}$ ft. high, around same, for W. C. to corner of secs. 25, 30, 31 and 36, marked:
 No. 35 on top of cap.
 1905 on top of cap.
 W. C. on top of cap.
 T 16 S S 30 in N. E. quadrant
 R 31 E S 31 in S. E. quadrant
 S 36 in S. W. quadrant
 R 30 E S 25 in N. W. quadrant
 RESERVE in S. W. and N. W. quadrants, with 5 notches on N. and 1 on S. sides.
 3.50 Draw, 30 lks. wide, 6 ft. banks, course N. E.
 13.00 Road bears E. and W.
 17.70 Dry creek, 80 lks. wide, 2 chains subject to overflow, course E.
 20.50 Begin steep ascent bears N. 80° E. and S. 80° W.
 30.30 Wash, 5 lks. wide, course S. E.; ascent becomes more abrupt, bare rock dotted with mescal and cacti.
 40.30 $\frac{1}{4}$ sec. corner, which is a porphyry stone 10x8x6 ins. correctly marked, set in small pile of stone. I set in its place a porphyry stone 18x10x6 ins. marked $\frac{1}{4}$ on W. face for $\frac{1}{4}$ sec. corner, set 4 ins. in ground to rock and build mound of stone, 3 ft. base, 1 ft. high, around corner stone. Fits im-

219
CHIRICAHUA FOREST RESERVE BOUNDARY.

T. 16 S., Rs. 30 and 31 E.

- Chains. practicable.
Thence from $\frac{1}{2}$ sec. corner I run
N. $0^{\circ}53'$ E. on true line, north half.
- 4.30 Top of ascent on south end of spur, 200 ft. above flat.
- 17.70 Swail drains W., begin ascent N. W. and S. E.
- 19.00 Miner's cabin bears about west 20.00 chs. dist.
- 27.00 Highest point on west slope of butte 250-feet above flat. Vertical pillar of rock about 80 ft. high on summit of butte bears E. 4.00 chs. dist., "The Nipple". Thence along steep west slope, gradually descending.
- 40.73 Corner of secs. 19, 24, 25 and 30, which is a porphyry stone 20x8x6 ins., correctly marked and lying on top of ground, with small mound of stone to the west. A flow seam renders the corner rock unsafe. I set in its place a porphyry 22x12x10 ins., 6 ins. in ground to rock, marked 4 notches on N. and 2 on S. faces, and build mound of stone, 4 ft. base, 1 ft. high, around corner; pits impracticable.
- Land, rolling and mountainous.
Soil, bare rock and stony, 4th rate.
Timber, none; scattering brush and mescal.

- From corner of secs. 19, 24, 25 and 30 I run North on random retracement line between secs. 19 and 24.
- 40.00 Set stake for temporary $\frac{1}{2}$ corner; no trace of old corner found.
- 80.60 Intersect E. and W. sec. line 15 lks. west of corner of secs. 13, 18, 19 and 24. Thence returning to corner of secs. 19, 24, 25 and 30, from which I run N. $00^{\circ}06'$ E. on true line between secs. 19, and 24, over rocky prairie bench of spur extending north from "The Nipple".
- .68 Set iron U. S. Forest Reserve Boundary Post No. 36, 14 ins. in ground to rock, and build mound of stone, 7 ft. base, 2 $\frac{1}{2}$ ft. high, around post, for W. C. to corner of secs. 19, 24, 25 and 30, marked:
- No. 36 on top of cap.
1905 on top of cap.
W. C. on top of cap.
T 16 S S 19 in N. E. quadrant
R 31 E S 30 in S. E. quadrant
S 25 in S. W. quadrant
R 30 E S 24 in N. W. quadrant
RESERVE in S. W. and N. W. quadrants, with 4 notches on N. and 2 on S. sides.
- 2.00 Begin descent bears N. W. and S. E.
- 14.00 Trail bears E. and W., base of 100-foot descent E. and W.
- 14.20 Draw 5 lks. wide, course W., heads 5.00 chs. east in low saddle.
- 18.00 Begin abrupt rocky ascent of blue rocky ridge covered with cacti bears E. and W.
- 26.20 Side hill wash, 4 lks. wide, course S. W.
- 35.00 Top of 250-foot ascent on blue limestone ridge bears E. and W.; begin descent; enter scattering timber E. and W.
- 40.30 Set limestone 20x12x8 ins., 6 ins. in ground to rock and build mound of stone, 3 ft. base, 1 ft. high, around corner, for $\frac{1}{2}$ sec. corner, marked $\frac{1}{2}$ on W. face, from which:
- A juniper, 12 ins. diam., bears S. $81^{\circ}45'$ E., 113 lks. dist., marked $\frac{1}{2}$ S 19 B T
A juniper, 8 ins. diam., bears N. $74^{\circ}30'$ W.,

CHIRICAHUA FOREST RESERVE BOUNDARY.

T. 16 S., Rs. 30 and 31 E.

Chains. 122 lks. dist., marked RES 1/4 S 24 P T
 45.00 Leave scattering timber; enter prairie bears E. and W.
 60.00 Base of 300-foot descent bears E. and W.; thence
 over gently rolling ~~flat~~ flat covered with clusters
 of catclaw and mesquite brush.
 80.60 Corner of secs. 13, 18, 19 and 24, which is con-
 glomerate stone 8x6x5 ins., marked correctly lying
 on top of ground, small pile of stone to the west.
 I set in its place a limestone 24x10x6 ins., 15
 ins. in ground, for corner of secs. 13, 18, 19 and
 24, marked 3 notches on N. and S. faces, and build
 mound of stone 2 1/2 x 2 feet west of corner.
 Land, mountainous, broken and level.
 Soil, rocky and gravelly, 4th rate.
 Timber, juniper and oak on N. slope of mountain.
 March 28, 1905.

March 29: 7 a.m., latitude 32°01'45";
 declination 3°17'45" N.

From corner of secs. 13, 18, 19 and 24 I run
 North on random line between secs. 13 and 18.
 40.00 Stake for temporary 1/4 corner; no trace of old corner.
 80.00 Stake for temporary corner of secs. 7, 12, 13 and
 18; no trace of old corner; continue north between
 secs. 7 and 12.
 120.00 Stake for corner; no trace of old 1/4 corner.
 160.00 Stake for temporary corner of secs. 1, 5, 7 and 12;
 No trace of old corner.
 200.00 Stake for temporary 1/4 corner; no trace of old corner.
 251.60 Intersect Third Standard Parallel South 15.44 chs.
 east of C. C. T. 16 S., Rs. 30 and 31 E. Reported
 distance 249.20 = 2.40 chs. discrepancy in meas-
 urements to be proportioned in three miles of line =
 80 lks. to the mile.
 Thence returning to corner of secs. 13, 18, 19 and
 24, from which I run
 N. 3°31' W. on true line between secs. 13 and 18,
 over gently rolling valley covered with clusters of
 catclaw and mesquite brush.
 .13 Set iron U. S. Forest Reserve Boundary Post No. 37
 18 ins. in ground to rock and build mound of stone,
 4 1/2 ft. base, 2 ft. high, around same for W. C.
 to corner of secs. 13, 18, 19 and 24, marked:
 No. 37 on top of cap.
 1905 on top of cap.
 W. C. on top of cap.
 T 16 S S 18 in N. E. quadrant
 R 31 E S 18 in S. E. quadrant
 S 24 in S. W. quadrant
 R 30 E S 13 in N. W. quadrant
 RESERVE in S. W. and N. W. quadrants, with 3
 notches on N. and S. sides.
 11.50 Draw, 10 lks. wide, 2 ft. banks, course N. 20° W.
 25.00 Draw, 10 lks. wide, 2 ft. banks, course N. E.
 29.00 Draw, 20 lks. wide, 5 ft. banks, course N. E.
 37.40 Road bears N. E. and S. W.
 40.40 Set porphyry stone 18x10x8 ins., 12 ins. in ground
 for 1/4 sec. corner, marked 1/4 on W. face, and dig
 pits 18x18x12 ins. N. and S. of corner, 3 1/2 ft.
 dist., and raise mound of stone covered with earth
 3x2 ft. west of corner.
 60.50 Dry branch, 30 lks. wide, 4 ft. banks, course N. E.
 80.74 Set iron U. S. Forest Reserve Boundary Post No. 38,
 28 ins. in ground, and build mound of stone and
 earth 4 ft. x 1 1/2 ft. around post for W. C. to corner
 of secs. 7, 12, 13 and 18, marked.
 No. 38 on top of cap.
 1905 on top of cap.
 W. C. on top of cap.

CHINICAHUA FOREST RESERVE BOUNDARY.

T. 16 S., Rs. 30 and 31 E.

Chains. T 16 S S 7 in N. E. quadrant
 R 31 E S 18 in S. E. quadrant
 S 13 in S. W. quadrant
 R 30 E S 12 in N. W. quadrant
 RESERVE in S. W. and N. W. quadrants, with 2
 notches on N. and 4 on S. sides.

80.80 Set porphyry stone 16x12x8 ins., 12 ins. in ground
 for corner of secs. 7, 12, 13 and 18, marked
 2 notches on N. and 4 on S. faces, and dig pits
 18x18x12 ins., in each section 5 1/2 ft. distant
 from corner (dirt used in mound around post to
 the south).
 Land, gently rolling.
 Soil, gravelly and sandy, 4th rate.
 Timber, none; covered with clusters of catclaw and
 mesquite brush.

From corner of secs. 7, 12, 13 and 18, I run
 N. 3°31' W. on true line between secs. 7 and 12,
 over nearly level valley, covered with small growth
 of catclaw and mesquite brush.

4.50 Dry creek, 50 lks. wide, 3 ft. banks, course N. E.
 40.40 Set porphyry stone 22x10x8 ins., 15 ins. in ground,
 for 1/4 sec. corner, marked 1/4 on W. face, and dig
 pits 18x18x12 ins., N. and S. of corner, 3 1/2 ft.
 distant, and raise mound of stone covered with
 earth 3x2 ft. W. of corner.

40.75 Wash, 5 lks. wide, course N. 60° E.
 64.00 Draw, 15 lks. wide, 3 ft. banks, course N. 60° E.
 65.20 Wash, 3 lks., course N. 80° E.

80.71 Set iron U. S. Forest Reserve Boundary Post No. 39,
 26 ins. in ground, and build mound of stone and
 earth, 5 ft. x 1 1/2 ft. around post for W. C. to
 corner of secs. 1, 6, 7 and 12, marked:
 No. 39 on top of cap.
 1905 on top of cap.
 W. C. on top of cap.

T 16 S S 6 in N. E. quadrant
 R 31 E S 7 in S. E. quadrant
 S 12 in S. W. quadrant
 R 30 E S 1 in N. W. quadrant
 RESERVE in S. W. and N. W. quadrants, with 1
 notch on N. and 5 on S. sides.

80.80 Set porphyry lime rock 18x10x6 ins., 12 ins. in
 ground, for corner of secs. 1, 6, 7 and 12, marked
 with 1 notch on N. and 5 on S. faces, and dig
 pits 18x18x12 ins. in each section 5 1/2 ft. dist.
 At corner of secs. 1, 6, 7 and 12 I set off 3°21'15" N.
 on declination arc and at 12°04'59" l.m.t., March
 29, 1905, observe sun on meridian and obtain read-
 ing of 32°03'30" on latitude arc.
 Land, gently rolling and level.
 Soil, gravelly and sandy, 3rd and 4th rate.
 Timber, none; catclaw and mesquite brush in clusters.

From corner of secs. 1, 6, 7 and 12 as just established
 by me, I run
 N. 3°31' W. on true line between secs. 1 and 6 over
 nearly level flat.

20.00 Wash, 5 lks. wide, course N. E.
 31.50 Wash, 5 lks. wide, course N. E.
 40.40 Set porphyry stone 20x10x8 ins., 12 ins. in ground,
 for 1/4 sec. corner, marked 1/4 on W. face, and dig
 pits 18x18x12 ins. N. and S. of corner, 3 1/2 ft.
 dist., and raise mound of stone and earth 3x2 ft.
 W. of corner.
 48.00 Dry creek, 50 lks. wide, course N. E., 8 ft. banks.

223

CHIRICAHUA RESERVE FOREVER CONTRACT.

T. 16 S., Rs. 30 and 31 E.

Claims.

- 89.94 Set iron U. S. Forest Reserve boundary Post No. 40 26 ins. in ground and build mound of stone and earth $4\frac{1}{2} \times 1\frac{1}{2}$ ft. around same for W. C. to S. C. to T. 16 S., Rs. 30 and 31 E., marked:
No. 40 on top of cap.
1905 on top of cap.
W C on top of cap south of center.
C C
R 31 E S 6 in S. E. quadrant
T 16 S R 30 E S 1 in S. W. quadrant
RESERVE in S. W. quadrant, with 6 notches on E., S. and W. sides.
- 90.00 Set C. C. of T. 16 S., Rs. 30 and 31 E., which is a porphyry rock 10x10x2 ins., correctly marked and lying on top of ground; no mound or other stones near. I set in its stead a porphyry like rock 20x14x10 ins., 14 ins. in ground, for C. C. to T. 16 S., Rs. 30 and 31 E., marked 6 notches on E., S. and W. faces, C. C. on S. face, and dig pits 24x24x12 ins. E. and W. of corner, 4 ft. distant, S. of corner, 9 ft. distant, throwing dirt in mound around iron post.
Note: I did not accept the position of this C. C. until after checking on S. C. to the west following.
Land, level and gently rolling.
Soil, stony, gravelly and sandy, 4th rate.
Timber, none; catclaw and mesquite brush in clusters.

Tps. 15 and 16 S., Rs. 30 and 31 E.

Corrections C. C. and S. C.

From C. C. to T. 16 S., Rs. 30 and 31 E., as just re-set, the S. C. of T. 15 S., Rs. 30 and 31 E. bears west.

11.80

As reported, and is a porphyry stone 4x4x3 ins., marked with 6 notches on 3 sides and lying on top of ground between two rocks of about same size, and 4 ft. to the east is a stake 14 ins. long, 1 in. square, marked in Roman numerals for S. C. T. 15 S., Rs. 30 and 31 E. In place of the above described stone I set porphyry stone 20x12x8 ins., 14 ins. in ground for S. C. T. 15 S., Rs. 30 and 31 E., marked 6 notches on N., E. and W. faces, S. C. on N. face, and dig pits 24x24x12 ins. N., E. and W. of corner, and raise mound of stone covered with earth 4x3 ft. N. of corner.
March 29, 1905.

GENERAL DESCRIPTION.

- T. 16 S., R. 31 E., is mostly in the San Simon Valley, is gravelly sandy desert covered with catclaw and small mesquite brush, and affords some grass. The foothills extend into the southwest portion of township, in which portion there is some prospecting being done.
- T. 16 S., R. 30 E., with exception of secs. 1, 12 and 13 and part of 2, 11 and 14 which are in flat, is mountainous, the main range of Chiricahua mountains traversing the center N. and S. Mr. Bucklew has a ranch house and windmill in sec. 24 near center of E. W. quarter (estimated). Some little prospecting carried into township. The mountainous portion is timbered with pine on summits, live oak and juniper on foothills, and brush of manzanita and oak.

225

CHIRICAHUA FOREST RESERVE BOUNDARY.
Third Standard Parallel S.,
Through R. 30 E.

- March 30:
- Chains. At S. C. T. 15 S., Rs. 30 and 31 E., as just re-set by me, I set off $32^{\circ}04'15''$ on latitude arc and $3^{\circ}45'45''$ N. on declination arc, and at 1 p. m., March 30, 1905, establish meridian with solar.
- Thence I run
West on random retracement line along south boundary of sec. 36.
- 39.92 The $\frac{1}{4}$ S. C. bears N. 30 lks. dist.
Thence from $\frac{1}{4}$ S. C. I run west.
- 39.87 S. C. of secs. 35 and 36 bears S. 28 lks. dist.
Thence returning to S. C. of T. 15 S., Rs. 30 and 31 E., from which I run
N. $89^{\circ}34'$ W. on true line along south boundary sec. 36, east half, over gently rolling valley covered with cluster of catclaw and mesquite brush and soap weed.
- 29.60 Wash 3 lks. wide, course N. E.
39.92 $\frac{1}{4}$ S. C. on south boundary sec. 36, which is a small mound of earth, and four feet east of mound is old stake 12 ins. long, $1\frac{1}{2} \times 1$ ins., driven 8 ins. in ground, well preserved and marked $\frac{1}{4}$ on N. face. I accept the mound of earth 4 ft. west of stake as true point, and set porphyry lime rock $18 \times 12 \times 8$ ins., 12 ins. in ground, for $\frac{1}{4}$ standard corner, marked $\frac{1}{4}$ S. C. on N. face, and dig pits $18 \times 18 \times 12$ ins. E. and W. of corner, $3\frac{1}{2}$ ft. distant, and raise mound of stone covered with earth $2\frac{1}{2} \times 2$ ft. N. of corner.
Thence from $\frac{1}{4}$ S. C. I run
S. $89^{\circ}36'$ W. on true line along S. boundary sec. 36, west half.
- 22.50 Dry creek bed, 30 lks. wide, 3 ft. banks, course N. 30° E.
- 33.60 Dry branch, 15 lks. wide, course N. 30° E.
- 39.79 Set iron U. S. Forest Reserve Boundary Post No. 41, 26 ins. in ground and build mound of stone $5 \times 1\frac{1}{2}$ ft. around same for W. C. to standard corner of secs. 35 and 36, marked:
No. 41 on top of cap.
W. C. on top of cap N. of center.
S. C.
1905 on top of cap.
T 15 S S 36 in N. E. quadrant
R 30 E S 35 in N. W. quadrant
RESERVE in S. W. and S. E. quadrants, with 1 notch on E. and 5 on W. sides.
- 39.87 At S. C. secs. 35 and 36, the position of which is determined by stake, $1\frac{1}{2}$ ins. sq., 14 ins. long, 8 ins. in ground, marked for corner secs. 35 and 36, which being called for in east pit I accept position 4 ft. west of stake for corner point, and set porphyry limestone $20 \times 12 \times 10$ ins., 14 ins. in ground, marked S. C. on E., 5 notches on W. and 1 on E. faces; pits impracticable.
Land, gently rolling.
Soil, gravelly and stony, 4th rate.
Timber, none.

Note: The report of Powers Survey of Third Standard Parallel from S. C. 35 and 36 west is very clearly a case of perjury, and the notes when compared with the country are preposterous. His survey was made either by running north from S. C. 33 and 34, T. 15 S., R. 29 E., to San Simon Flat, then east in flat and south to S. C. 35 and 36, T. 15 S., R. 30 E., thus avoiding a very rough mountainous country. Or possibly he triangulated from west side of mountain to some prominent point of mountain and then threw in a base in San Simon Valley and located himself by back triangulating. In either event it was a very poor job.

March 30, 1905.

227

CHIRICAHUA FOREST RESERVE BOUNDARY.
Third Standard Parallel S.,
Through R. 30 E.

- Chains. March 31st and April 1st, rain and snow.
April 4:
From S. C. secs. 35 and 36, T. 15 S., R. 30 E.,
I run
West on random line on Third Standard Parallel,
setting temporary stakes at intervals of 40.00
chs. for S. C. and standard sec. corners.
- 400.00 Set temporary stake for corner T. 15 S., R. 29 and
30 E.
- April 4, 1905.
- April 5th and 6th.
Thence I proceed to S. $\frac{1}{2}$ sec. corner on south bound-
ary sec. 34, T. 15 S., R. 29 E., I run
East on random line on Third Standard Parallel S.,
setting stakes for temporary sec. corners at in-
tervals of 40.00 chs.
- 207.30 Stake set for township corner, temporary, on line
from E., bears S. 23.66 chs. dist., which gives
true bearing for Third Standard Parallel for $7\frac{1}{2}$
miles, =
N. 87°46' W. for 607.68 chs. dist. =
81.02 chs. to the mile for proportional distance
on true bearing.
- Therefore I return to S. C. secs. 35 and 36, T. 15 S.,
R. 30 E., from which I run
N. 87°46' W. on true line along South boundary
sec. 35.
- 9.50 Draw, 10 lks. wide, course N. E. Leave San Simon
valley, begin ascent bears N. W. and S. E.
- 15.40 Draw, 10 lks. wide, course N. E.
- 27.00 Wash, 4 lks. wide, course N. E.
- 39.00 Wash, 3 lks. wide, course N. 30° E.
- 40.51 Set granite stone 18x12x6 ins., 12 ins. in ground,
for $\frac{1}{4}$ sec. corner, marked S. C. $\frac{1}{4}$ on N. face,
and build mound of stone $2\frac{1}{2}$ x $1\frac{1}{2}$ N. of corner.
No bearing trees available; pits impracticable.
- 46.50 North point of spur from S.; enter scattering
timber bears N. W. and S. E.
- 53.00 Draw, 8 lks. wide, course N. E.
- 81.02 True point for S. C. secs. 34 and 35 falls in
draw, 10 lks. wide, course N. 30° E.
- 82.08 Set limestone 20x12x8 ins., 14 ins. in ground, for
W. C. S. C. secs. 34 and 35 1.06 chs. W. of true
point, marked W.C.S.C. on N., 2 notches on E. and
4 on W. faces, from which:
A live oak, 10 ins. diam., bears N. 51° E., 25
lks. dist., marked W.C.S.C., T. 15 S., R. 30 E.,
S. 35 S. 35 B T
No other trees available.
Land, rolling and mountainous.
Soil, stony, 4th rate.
Timber, scattering oak, pine and juniper.
-
- From the true point for S. C. secs. 34 and 35 in
bed of draw I run
N. 87°46' W. on true line along south boundary sec.
34, ascending through scattering timber.
- 1.06 W. C. as previously described.
- 1.20 Set iron U. S. Forest Reserve Boundary Post No. 42,
20 ins. in ground, and build mound of stone 6x2
ft. around same for additional W. C. to S. C.
secs. 34 and 35, marked:
No. 42 on top of cap.
1905 on top of cap.
W. C. on top of cap N. of center.
S. C.
T 15 S S 35 in N. E. quadrant
R 30 E S 34 in N. W. quadrant
RESERVE in S. E. and S. W. quadrants, with 2

229

CHIRICAHUA FOREST RESERVE BOUNDARY.
Third Standard Parallel S.,
Through R. 30 E.

- Chains. notches on E. and 4 on W. faces.
- 15.00 Top of rocky butte on ridge bearing N. 60° W. and S. E., 350 ft. above sec. corner and 1350 ft. above San Simon Valley to the east. Thence rocky precipitous descent bears N. W. and S. E.
- 25.00 Head of draw, course S.; base of 250-foot descent; thence gradual ascent along S. slope.
- 31.00 Cross backbone of ridge, bears N. 70° E. and S. 70° W., and begin descent, bears same.
- 40.51 Set porphyry limestone 22x10x8 ins., 15 ins. in ground for $\frac{1}{4}$ S. C., marked $\frac{1}{4}$ S. C. on N. face, from which:
A juniper, 5 ins. diam., bears N. 43° E., 38 lks. dist., marked S C $\frac{1}{4}$ S 34 B T and build mound of stone, 2 $\frac{1}{2}$ x 2 ft., N. of corner. No other trees available. At west base of 20 ft. rock ledge.
- 48.00 Draw, 12 lks. wide, course N. W.
- 55.00 North point of rock spur from S.
- 61.00 Draw, 15 lks. wide, course N., base of 400-foot descent; thence along steep broken N. slope, over north points of projecting ledges.
- 68.00 Draw, 20 lks. wide, course N. E.; begin precipitous ascent bears N. 30° E. and S. 30° W.
- 81.02 True point for S. C. 33 and 34 falls on inaccessible side of cliff.
- 81.70 Pinnacle of rock, 20 ft. square, 15 ft. high, at top of cliff on line.
- 81.79 77 lks. west of true point set porphyry stone 24x14x6 ins., 12 ins. in ground, for W. C. S. C. secs. 33 and 34, marked W.C.S.C. on N., 3 notches on E. and W. faces, from which:
A pinion, 5 ins. diam., bears N. 29°30' E., 76 lks. dist., marked W C S C T 15 S R 30 E S 34 B T
A pinion, 12 ins. diam., bears N. 61° W., 124 lks. dist., marked W C S C T 15 S R 30 E S 33 P T
- Land, mountainous and precipitous.
Soil, rocky and stony, 4th rate.
Timber, pinion, oak and juniper.

From the true point for S. C. secs. 33 and 34 on side of cliff I run
N. 87°46' W. on true line along south boundary sec. 33.

- .77 W. C. previously described.
- .92 Set iron U. S. Forest Reserve Boundary Post No. 43, 12 ins. in ground to rock, and build mound of stone, 6 ft. base, 3 ft. high, around same for W.C. to S.C. secs. 33 and 34, marked:
No. 43 on top of cap.
W. C. on top of cap north of center.
S. C.
1905 on top of cap.
T 15 S S 34 in N. E. quadrant
R 30 E S 33 in N. W. quadrant
RESERVE in S. E. and S. W. quadrants, with 3 notches on E. and W. sides, on top of north end of 500-foot spur ridge. Thence descending bears N. and S.
- 7.00 Ravine, 10 lks. wide, course N. 30° W., base of 500-foot precipitous descent; thence gradual descent along steep broken N. slope over rock pinnacles and ravines.
- 28.50 Ravine 20 lks. wide, course N. E., begin precipitous ascent bears N. E. and S. W.
- 40.51 True point for $\frac{1}{4}$ sec. corner falls on side of rock precipice.

231

CHIRICAHUA FOREST RESERVE BOUNDARY.

Third Standard Parallel S.,

T Through R. 30 E.

Chains.

- 43.46 Top of rock precipice 450 ft. high, bears N. 20° E. and S. 20° W.
- 43.48 Mark cross (+) on bare rock ledge in place, W C S C $\frac{1}{4}$ N. of cross, from which:
 A pinion, 10 ins. diam., bears N. 59°45' W., 143 lks. dist., marked, W C S C $\frac{1}{4}$ S 33 B T
 No other tree available; I build mound of stone 3x2 ft. N. of cross. Continue steep broken ascent.
- 62.00 Top of 1200-foot ascent, bears N. 20° E. and S. 20° W.
- 69.00 Top of backbone of spur bears N. E. and S. W., at highest point on north boundary of reserve boundary line. This spur connects on south with Cochise head peak; thence along N. slope.
- 77.40 Begin descent, bears N. 80° E. and S. W.
- 81.02 True point for S. C. falls in steep side hill wash, 5 lks. wide, course north, base of 100-foot descent.
- 81.22 Set limestone 20x14x8 ins., 15 ins. in ground, for W. C. to S. C. secs. 32 and 33, marked, W C S C on N., 2 notches on W. and 4 on E. faces, from which:
 A pine, 16 ins. diam., bears N. 59°30' E., 23 lks. dist., marked W C S C T 15 S R 30 E S 33 B T
 A juniper, 12 ins. diam., bears N. 43°45' W., 18 lks. dist., marked W C S C T 15 S R 30 E S 32 B T
 and build mound of stone 2½x2 ft. N. of corner.
 Land, mountainous, precipitous and broken.
 Soil, bare rock and rocky, 4th rate.
 Timber, pinion, oak and scattering juniper.
 April 7, 1905

April 8:

From the true point for S. C. secs. 32 and 33, 20 lks. east of W. C., I run N. 87°46' W. on true line along south boundary sec. 32, ascending.

.20
5.22

W. C. previously described.

Set iron U. S. Forest Reserve Boundary Post No. 44, 12 ins. in ground to rock, and build mound of stone, 7x3 ft. around same for boundary marking, marked:

No. 44 on top of cap.

1905 on top of cap.

RESERVE in S. E. and S. W. quadrants (no other markings), from which:

A pinion, 14 ins. diam., bears S. 66° W., 27 lks. dist., marked RES B P No. 44 B T

A pinion, 12 ins. diam., bears E. 42°15' W., 12 lks. dist., marked B P. No. 44 B T

Near N. end of spur ridge 100 ft. above standard sec. corner; thence descending bears N. and S.

14.00

Descent becomes precipitous; down rock cliffs, bears N. 20° E. and S. 20° W.

21.50

Ravine, 15 lks. wide, 50 ft. rock walls, course N. 10° W., base of 500-foot descent, thence over bare rock, crags and gulches, along steep N. slope.

31.90

Draw, 15 lks. wide, course N., down steep rocky slope.

37.80

Head of draw, course N. E.

39.00

Cross backbone of spur ~~like~~ ridge bears N. W. and S. 30° E. and begin descent. From this point "Cochise Head" (mountain) bears S. 10°44' E., about 2½ miles distant. (Old notes call for this mountain at S. 8° E. from the $\frac{1}{4}$ S. C. on south boundary of sec. 31. As matter of fact mountain cannot be seen from that $\frac{1}{4}$ sec. corner, nor from any point within 30 chs. of it).

40.51

Set limestone 22x12x8 ins., 15 ins. in ground for $\frac{1}{4}$ S. C., marked S. C. $\frac{1}{4}$ on N. face, from which:

CHIRICAHUA FOREST RESERVE BOUNDARY.
First Standard Parallel S.,
Through R. 30 E.

Chains. A juniper, 8 ins. diam., bears N. 73°30' E.,
98 lks. dist., marked $\frac{1}{2}$ S C S 32 B T
An oak, 6 ins. diam., bears N. 48°45' W., 199
lks. dist., marked S C $\frac{1}{2}$ S 32 B T

58.00 Side hill wash, 8 lks. wide, course N. 60° W.
61.20 Draw, 20 lks. wide, course N. W., base of 500-foot
descent; begin ascent.
64.00 Top of 100-foot ascent, bears N. and S. Thence
along N. slope of spur.
69.70 Begin descent bears N. E. and S. W.
73.00 Draw, 10 lks. wide, course N. E. Base of 150-foot
descent, begin ascent.
81.02 Set granite stone 18x10x5 ins., 12 ins. in ground
for S. C. secs. 31 and 32, marked S C on N., 5
notches on E. and 1 on W. faces, from which:
A juniper, 10 ins. diam., bears N. 63°45' E., 29
lks. dist., marked S C T 15 S R 30 E S 32
B T
A juniper, 9 ins. diam., bears N. 23°15' W.,
116 lks. dist., marked S C T 15 S R 30 E
S 31 B T
Corner on steep east slope 300 ft. above last draw.
Land, mountainous and broken.
Soil, rocky, 4th rate.
Timber, pinion, oak and scattering juniper, oak
and manzanita brush.

From S. C. secs. 31 and 32 I run
N. 87°46' W. on true line along S. boundary sec. 31,
through timber ascending.

6.00 Top of ascent bears N. W. and S., 200 ft. above sec.
corner, thence along steep broken N. slope of
mountain.
25.00 Head of draw, course N.
30.12 Set iron U. S. Forest Reserve Boundary Post No. 45,
26 ins. in ground and build mound of stone, 6 ft.
base, 1 $\frac{1}{2}$ ft. high around same, for boundary marking,
marked:
No. 45 on top of cap.
1905 on top of cap.
RESERVE in S. E. and S. W. quadrants, from which:
An oak, 9 ins. diam., bears N. 19° W., 36 lks.
dist., marked B. P. No. 45 B T
A juniper, 18 ins. diam., bears S. 80° E., 32
lks. dist., marked RES B. P. No. 45 B T
A 50-foot vertical cliff bears S. 30 lks. running
E. and W., breaking off to the N.

33.00 Begin descent, bears N. and S.
40.51 Mark cross (+) on granite boulder in place 4x3x1 $\frac{1}{2}$ ft.
above ground for $\frac{1}{2}$ S.C., marked $\frac{1}{2}$ S C N. of cross
and build mound of stone 2 $\frac{1}{2}$ x2 ft. N. of cross.
No bearing trees available, on steep S. W. slope.
62.30 Creek in Wood Canyon, 50 lks. wide, course N. 80° W.,
from S. 20° E., storm water, 30 lks. wide, 6 ins.
deep; runs some water through summer, base of 800-
foot descent. Turner's prospect cabin bears S.
5.00 chs. dist., thence along S. side of creek in
canyon.
74.20 Draw, 10 lks. wide, course N., 3.00 chs. to creek;
begin ascent bears N. W. and S. E.
80.90 Wash, 4 lks. wide, course N. E. At 10.00 chs. N. of
this point creek in Wood Canyon makes sharp elbow
flowing N. E. from S. E.
81.02 Set limestone 18x12x8 ins., 12 ins. in ground, for
S. C. T 15 S, Rs. 29 and 30 E., marked S. C. on
N., 6 notches on N., E. and W. faces, from which:
A live oak, 10 ins. diam., bears N. 5° E., 34
lks. dist., marked S C T 15 S R 30 E S 31
B T

235'

CHIRICAHUA FOREST RESERVE BOUNDARY.
Third Standard Parallel S.,
Through R. 29 E.

Chains. A juniper, 12 ins. diam., bears N. 52° W., 46
lks. dist., marked S C T 15 S R 29 E S 36
B T
Land, mountainous and broken.
Soil, rocky and stony, 4th rate.
Timber, oak, juniper and pinion, some sycamore along
creek in wood canyon.
April 8, 1905.

April 6 and 9:
From standard corner T. 15 S., Rs. 29 and 30 E.,
just set by me, I run
N. 87°46' W. on true line along south boundary sec.
36, ascending.

1.98 Set iron U. S. Forest Reserve Boundary Post No. 46,
12 ins. in ground to rock and build mound of stone,
6½ ft. base, 2½ ft. high, around same for W. C. to
corner of T. 15 S., Rs. 29 and 30 E., marked:
No. 46 on top of cap.
W C
S C on top of cap north of center.
1905 on top of cap.
T 15 S R 30 E S 31 in N. E. quadrant
R 29 E S 36 in N. W. quadrant
RESERVE in S. E. and S. W. quadrants, with 6
notches on N., E. and W. sides.
In saddle of bare spur of checked like rock.

2.70 Draw, 5 lks. wide, course N. 20° E., begin steep
ascent.

11.60 North point of 30-foot rock ledge extending from S.
and top of 250-foot ascent, thence along N. slope
over broken rocky surface.

19.20 Ravine, 30-foot rock walls, course N. 30° E.
26.30 Ravine 50-foot rock walls, course N. 30° E.
33.30 Draw, 8 lks. wide, course N. 30° E.
39.30 Wash, 3 lks. wide, course N. 30° E.
40.51 Set porphyry limestone 22x12x10 ins., 15 ins. in
ground, for ¼ S. C., marked S. C. ¼ on N. face,
from which:
A pinion, 6 ins. diam., bears N. 63°15' E., 43
lks. dist., marked S C ¼ S 36 B T
An oak, 6 ins. diam., bears N. 60°30' W., 54
lks. dist., marked S C ¼ S 36 B T
and build mound of stone, 2½x2 ft., north of
corner; thence gradually rolling ascent.

42.00 Wash, 3 lks. wide, course N. 30° E.
45.35 Draw, 10 lks. wide, course N. E. (to Wood Canyon).
61.50 Top of abrupt ascent 200 ft., bears N. W. and S. E.
64.00 Summit on N. slope: Low saddle in N. and S. ridge
bears N. 4.00 chs. dist., forming divide between
Wood Canyon on E. and Emigrant Canyon on W. Trail
crosses this ridge in another saddle about 25.00
chs. north. Thence descending.

68.00 Draw, 10 lks. wide, course N. W. to Emigrant Canyon,
base of 90-foot descent, begin ascent.

76.00 Top of 120-foot ascent, thence along N. slope.
78.00 Begin descent bears N. E. and S. 20° W.
81.02 Set cement stone 18x12x8 ins., 12 ins. in ground,
for S. C. secs. 35 and 36, marked S. C. on N.,
1 notch on E. and 5 on W. faces, from which:
A juniper, 5 ins. diam., bears N. 63°30' E.,
63 lks. dist., marked S C T 15 S R 29 E
S 36 B T
A juniper, 9 ins. diam., bears N. 11°30' W., 61
lks. dist., marked S C T 15 S R 29 E S 35
B T
Land, mountainous and broken.
Soil, rocky and stony, 4th rate.
Timber, pinion, live oak and mountain mahogany brush.

237

CHIRICAHUA FOREST RESERVE BOUNDARY.
Third Standard Parallel S.,
Through T. 29 E.

- Chains. April 5 and 9:
From S. C. secs. 35 and 36 I run
N. 87°46' W. on true line along south boundary
sec 35, descending through timber and brush.
- 2.00 Draw, 8 lks. wide, course N. 30° W., base of 150-foot descent; thence along W. slope of spur.
- 5.00 Begin descent N. E. and S. W.
- 8.00 Draw, 10 lks. wide, course N. 20° E., to Emigrant Canyon; base 100-foot descent, begin ascent.
- 8.50 Trail bears N. E. and S. W., Wood Canyon and Buckhorn basin trail.
- 25.30 Top of 300-foot ascent on spur, bears N. and S.; begin steep descent.
- 33.00 Miners cabin at mouth of tunnel bears S. 50 lks. dist.
- 34.00 Draw, 10 lks. wide, course N., head of Emigrant Canyon; base of 300-foot descent; thence along steep rocky E. slope.
- 40.51 True point falls on steep E. slope of rock cliff, impracticable place for corner. Therefore at
- 41.79 Set porphyry lime stone 24x12x8 ins., 12 ins. in ground, for W. C. to standard $\frac{1}{4}$ sec. corner, marked
W C $\frac{1}{4}$ S C on N. face, from which:
A pinion, 5 ins. diam., bears N. 26°30' E., 79 lks. dist., marked W C S C $\frac{1}{4}$ S 35 B T
An oak, 8 ins. diam., bears N. 56°30' W., 40 lks. dist., marked W C S C $\frac{1}{4}$ S 35 B T
and build mound of stone 2x2 ft. N. of corner.
- 42.50 Draw, 8 lks. wide, course N. E., to Emigrant Canyon begin steep ascent.
- 42.73 Set iron U. S. Forest Reserve Boundary Post No. 47, 10 ins. in ground to rock, and build mound of stone, 7 ft. base, 3 ft. high, around same for boundary marking, marked:
No. 47 on top of cap.
1908 on top of cap.
RESERVE in S. E. and S. W. quadrants, from which:
A live oak, 10 ins. diam., bears N. 6° W., 35 lks. dist., marked B. P. No. 47 B T
A live oak, 12 ins. diam., bears S. 6°15' W., 40 lks. dist., marked RES B. P. No. 47 B T
- Top of 200-foot ascent on ridge bears N. 20° W. and S. 20° E., and forming divide between Emigrant Canyon and San Simon Valley on N. E., and Buckhorn basin and Sulphur Spring Valley on the W.; 2.00 chs. south of this point the wood canyon and Buckhorn trail crosses this divide and bears S. W. and S. 60° E.
- From Post No. 47 "Cochise Head" bears S. 68°04' E.
- 43.00 Head of draw course S. W., into Buckhorn Basin.
- 68.00 Draw, 8 lks. wide, course S.
- 75.80 Draw, 5 lks. wide, course S. 30° E.
- 79.20 Begin descent bears N. 20° W. and S. 20° E.
- 81.02 Set limestone 20x12x4 ins., 4 ins. in ground to rock and build mound of stone, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, around same for S. C. secs. 34 and 35, marked S. C. on N., S notches on E. and 4 on W. faces, from which:
A pinion, 8 ins. diam., bears N. 8°30' E., 174 lks. dist., marked S C T 15 S R 29 E S 35 B T
No other tree available.
Land, mountainous and broken.
Soil, rocky and stony, 4th rate.
Timber, pinion, 1 $\frac{1}{2}$ oak and no other standing brush.
-
- From standard corner secs. 34 and 35 I run
N. 87°46' W. on true line along S. boundary sec. 34.
- 5.00 Buildings and shaft of old Buckhorn mine (abandoned) bears S. about 20.00 chs. dist.

239

CHIRICAHUA FOREST RESERVE BOUNDARY.
Third Standard Parallel S.,
Through R. 29 E.

Chains.

- 6.20 Draw, 10 lks. wide, course S., base of 150-foot descent, begin ascent.
 - 12.60 Top of 200-foot ascent, bears N. and S.
 - 21.00 Begin descent bears N. 70° E. and S. 80° W.
 - 35.00 Cross backbone of ridge bears N. W. and S. 80° E., forming divide between Emigrant Canyon on N. and Buckhorn basin on S.
- Note: Old notes call for C. C. at 37.10 chs. W. of S. C. secs. 34 and 35, which according to reported length of south boundary of sec. 34 would be 2.90 chs. E. of $\frac{1}{2}$ standard corner on south boundary sec. 34. As matter of fact this C. C. nor the S. C. of secs. 34 and 35 were never set, and the given connection was made to agree with closing of lines to the west, and further as the position of the reestablished S. C. secs. 34 and 35 is controlled partially by a subsequent survey, therefore I place the reestablished C. C. at 2.90 chs. S. 87°46' E. from standard $\frac{1}{2}$ corner on S. bdy. sec. 34.
- 37.61 Set limestone 20x12x8 ins., 3 ins. in ground to rock and build mound of stone 3 ft. base, 1 $\frac{1}{2}$ ft. high around same for C. C. secs. 2 and 3, marked C C on south, 2 notches on east and 4 on west faces, from which:
 - A pinion, 4 ins. diam., bears S. 50° E., 68 lks. dist., marked C C B T (tree too small for full markings). No other tree available.
 - 40.51 $\frac{1}{2}$ standard sec. corner on south boundary sec. 34, which is an oak post, 2 ins. square, 3 ft. long, marked $\frac{1}{2}$ S C on N. face, set in mound of stone, 2 $\frac{1}{2}$ x2 ft., with old bearing trees as called for. Land, mountainous and broken. Soil, rocky, 4th rate. Timber, pinion and ~~oak~~ oak.
- Note: In measuring the Third Standard Parallel, the south boundary of secs. 35 and 36, R. 30 E., and south boundary of secs. 34 and 35, R. 29 E., were chained twice by same set of chainmen, with maximum difference of six links. On the remaining lines chaining is impossible for the major part. A double set of stadia readings were taken on random line and also a double set on true line, which latter was tied to random stakes, and the maximum discrepancy was 12 lks. to the mile, average discrepancy 8 lks.

241

CHIRICAHUA FOREST RESERVE BOUNDARY

T. 16 S., R. 29 E.

- Chains. Note: Mr. J. G. Stephens, axeman, employed April 13 on account of extra brush to be encountered in future.
- April 13: a.m. rain.
- At C. corner of secs. 2 and 3, on Third Standard Parallel, I set off $32^{\circ}04'15''$ on latitude arc and $9^{\circ}02'$ N. on declination arc, and at 1 p.m. establish meridian with solar.
- Thence I run
- 40.21 South on random line between secs. 2 and 3. Reported distance, I set stake for temporary $\frac{1}{2}$ sec. corner; no trace of old corner.
- 80.21 Stake for temporary corner secs. 2, 3, 10 and 11. April 13, 1904
- April 14:
- 120.21 Thence from this stake continue south. No trace of old corner; set stake for temporary $\frac{1}{2}$ corner secs. 10 and 11.
- 160.21 No trace of old corner; set stake for temporary corner secs. 10, 11, 14 and 15.
- 200.21 No trace of old corner; set stake for temporary $\frac{1}{2}$ corner secs. 14 and 15.
- 240.21 No trace of old corner; set stake for temporary corner secs. 14, 15, 22 and 23.
- 280.21 No trace of old corner; set stake for temporary $\frac{1}{2}$ sec. corner between secs. 22 and 23.
- 320.21 No trace of old corner; set stake for temporary corner secs. 22, 23, 26 and 27.
- 363.21 The $\frac{1}{2}$ sec. corner between secs. 26 and 27 bears east 11 lks. dist.
- Thence from C. C. secs. 2 and 3, T. 16 S., R. 29 E.; I run
- S. $0^{\circ}01'$ E. on true retracement line between secs. 2 and 3, descending over rocky surface, through scattering timber and brush.
- .07 Set iron U. S. Forest Reserve Boundary Post No. 48, 18 ins. in ground, and build mound of stone, $5\frac{1}{2}$ ft. base, $2\frac{1}{2}$ ft. high around same, for W.C.C.C. secs. 2 and 3, marked W C on top of cap south of center, C C
- R 29 E S 2 in S. E. quadrant
T 16 S S 3 in S. W. quadrant
RESERVE in S. E. quadrant, with 2 notches on E. and 4 on W. faces.
- 6.25 Draw, 5 lks. wide, course S. 30° E.
- 8.85 Draw, 10 lks. wide, course S. 30° W., base of 300-foot descent, thence along W. slope.
- 14.40 Draw, 10 lks. wide, course W., begin ascent.
- 17.50 Top of 50-foot ascent on rocky knoll, thence along west slope.
- 29.00 On southwest slope of backbone of spur, bearing N. 60° E. and S. 60° W.; begin descent bears N. W. and S. E.
- 40.54 Set porphyry limestone $22 \times 10 \times 8$ ins., $\frac{1}{2}$ 12 ins. in ground, for $\frac{1}{2}$ sec. corner, marked $\frac{1}{2}$ on W. face, from which:
- A live oak, 12 ins. diam., bears N. $48^{\circ}30'$ E., 78 lks. dist., marked RES $\frac{1}{2}$ S 2 B T
- A live oak, 9 ins. diam., bears S. $35^{\circ}15'$ W., 142 lks. dist., marked $\frac{1}{2}$ S 3 B T
- 41.00 Wash, 5-lks. wide, course S. 20° W.
- 48.20 Buckhorn creek 50 lks. wide, course S. 70° W., base of 200-foot descent (stream of storm water 5 lks. wide, 2 ins. deep).
- 49.20 Trail bears N. 70° E. and S. 70° W.
- 49.23 Build mound of stone 3 ft. base, 2 ft. high, for line marking by trail; begin ascent bears N. 70° E. and S. 70° W.
- 56.50 Draw, 10 lks. wide, course E, W.
- 68.00 Top of 250-foot ascent bears N. 40° W. and S. 80° E., thence over bench.

243

CHIRICAHUA FOREST RESERVE BOUNDARY.

T. 16 S., R. 29 E.

- Chains.
- 75.40 Draw, 10 lks. wide, course N. 70° W., begin rocky ascent bears N. 70° W. and S. 70° E.
- 80.88 By prorating measurement. Set porphyry 18x10x8 ins. 12 ins. in ground, for corner of secs. 2, 3, 10 and 11, marked with 2 notches on E. and 5 on S. faces, from which:
- A live oak, 14 ins. diam., bears N. 22°30' E., 201 lks. dist., marked RES T 16 S R 29 E S 2 B T.
 - A live oak, 11 ins. diam., bears S. 63°30' E., 155 lks. dist., marked RES T 16 Sp R. 29 E., S 11 B T.
 - A live oak, 12 ins. diam., bears S. 89°30' W., 96 lks. dist., marked T 16 S R 29 E S 10 B T.
 - A live oak, 10 ins. diam., bears N. 29° W., 186 lks. dist., marked T 16 S R 29 E S 3 B T.
- Corner falls on N. E. slope, 100 ft. above last draw.
- Land, hilly and broken.
Soil, rocky and stony, 4th rate.
Timber, scattering live oak and juniper.
- April 14, 1905.
-
- April 15:
- From corner of secs. 2, 3, 10 and 11 I run S. 0°01' E. on true line between secs. 10 and 11, up rocky ascent through scattering timber.*
- 4.50 Top of ascent on ridge bears N. W. and S. E., 90 ft. above sec. corner.
- 4.95 Set iron U. S. Forest Reserve Boundary Post No. 49, 24 ins. in ground, and build mound of stone, 5 ft. base, 2 ft. high, around same, for boundary marking, marked RESERVE in N. E. and S. E. quadrants.
- 6.30 Begin broken rocky descent bears N. 20° W. and S. 20° E.
- 27.30 Base of 400-foot descent bears N. W. and S. E., thence over rolling rocky lands.
- 40.33 Set granite stone 24x10x8 ins., 12 ins. in ground, for $\frac{1}{4}$ sec. corner, marked $\frac{1}{4}$ on W. face, from which:
- A live oak, 10 ins. diam., bears N. 27°30' E., 130 lks. dist., marked RES $\frac{1}{4}$ S 11 B T.
 - A live oak, 14 ins. diam., bears N. 28°30' W., 207 lks. dist., marked $\frac{1}{4}$ S 10 B T.
- 43.00 Draw, 15 lks. wide, course S. W.
- 52.20 "White Tail" creek, 50 lks. wide, (stream water 12 lks. wide), course S. 70° W.
- 52.83 A pine post (hewn) 4 ins. square, 3 ft. long, set in mound of stone, bears east 25 lks. dist.; no marks on post and is probably some private survey of recent date.
- 54.80 Begin steep ascent bears E. and W.
- 60.80 Top of 200-foot ascent on west slope of E. and W. ridge. Begin gradual descent, bears N. 60° W. and S. 60° E.
- 79.86 Set porphyry limestone 22x12x8 ins., 14 ins. in ground, for W. C. to corner of secs. 10, 11, 14 and 15, marked with 2 notches on E., and W. C. and 4 notches on S. faces, from which:
- A live oak, 6 ins. diam., bears N. 50°30' E., 162 lks. dist., marked RES W C T 16 S R 29 E S 11 B T.
 - A pine, 8 ins. diam., bears S. 54° E., 82 lks. dist., marked RES W C T 16 S R 29 E S 14 B T.
 - A juniper, 7 ins. diam., bears S. 25°30' W., 74 lks. dist., marked W C T 16 S R 29 E S 15 B T.
 - A juniper, 8 ins. diam., bears N. 56° W., 127 lks. dist., marked W C T 16 S R 29 E S 10 B T.
- 80.66 True point for corner of secs. 10, 11, 14 and 15 (by prorating measurement) falls in draw, 10 lks.

245

CHERICAHUA FOREST RESERVE BOUNDARY.

T. 16 S., R. 29 E.

Chains. wide, course S. 60° W.
Land, hilly and broken.
Soil, rocky and stony, 4th rate.
Timber, scattering live oak and juniper.

At this W. C. I set off 9°44'15" N. on declination arc and at noon, 1.m.t., April 15, observe sun on meridian and obtain reading of 32°02'30" on latitude arc.

- From true point for corner of secs. 10, 11, 14 and 15, which is 80 lks. south of W. C., I run S. 0°01' E. on true line between secs. 14 and 15; over rolling rocky land, through timber and brush.
- .87 Set iron U. S. Forest Reserve Boundary Post No. 50, 26 ins. in ground, with mound of stone, 4 ft. base, 1½ ft. high, around same for boundary marking, and W. C., marked:
W C on top of cap.
T 16 S S 11 in N. E. quadrant
R 29 E S 14 in S. E. quadrant
S 15 in S. W. quadrant
S 10 in N. W. quadrant
RESERVE in N. E. and S. E. quadrants, with 2 notches on E. and 4 on S. sides.
- 4.40 Draw 15 lks. wide, course S. 80° W.
10.30 Draw, 10 lks. wide, course S. 80° W.
15.70 Begin steep rocky ascent, bears N. 70° E. and S.W.
27.00 Top of 250-foot ascent on west slope of spur projecting from east, thence along west slope timber, scattering and less brush.
- 40.33 Set porphyry limestone 20x10x8 ins., 2 ins. in ground to rock, and build mound of stone 3 x 2 ft. around same for ¼ sec. corner, marked ¼ on W. face, from which:
A live oak, 7 ins. diam., bears N. 25° E., 81 lks. dist., marked RES ¼ S 14 B T
No other trees available.
- 42.00 Begin descent, bears N. W. and S. E.
62.00 Draw, 5 lks. wide, course S. 20° E., base of 250-foot descent.
70.00 Branch, 15 lks. wide (storm water 10 lks. wide, 2 ins. deep), course S. 60° W., begin steep rocky ascent.
- 78.20 Top of 150-foot ascent on west point of spur.
80.46 Set iron U. S. Forest Reserve Boundary Post No. 51, 4 ins. in ground to rock and build mound of stone, 7 ft. base, 3¾ ft. high, around same for boundary marking and W. C., marked:
W C on top of cap.
T 16 S S 14 in N. E. quadrant
R 29 E S 23 in S. E. quadrant
S 22 in S. W. quadrant
S 15 in N. W. quadrant
RESERVE in N. E. and S. E. quadrants, with 2 notches on E. and 3 on S. sides.
- 80.66 By prorating measurements. Set porphyry limestone 18x10x8 ins., 4 ins. in ground to rock and build mound of stone 2½x1½ ft. around same, for corner of secs. 14, 15, 22 and 23, marked 3 notches on S. and 2 on E. faces; no bearing trees available; pits impracticable.
Land, hilly and broken.
Soil, rocky and stony, 4th rate.
Timber, scattering live oak and juniper.

From corner of secs. 14, 15, 22 and 23 I run S. 0°01' E. on true line between secs. 22 and 23,

247

CHIRICAHUA FOREST RESERVE BOUNDARY.

T. 16 S., R. 29 E.

- Chains. descending bare rocky spur, very scattering timber.
- 7.00 Enter branch, 15 lks. wide, course N. W. from south (storm water, 10 lks. wide, 3 ins. deep).
- 9.00 Leave branch, course N. from S. E.
- 13.00 Draw, 4 lks. wide, course N. 20° E., begin rocky ascent, bears N. 80° W. and S. 80° E.
- 25.00 Brush becomes very thick.
- 40.33 Set porphyry limestone 16x12x4 ins., 11 ins. in ground, for $\frac{1}{4}$ sec. corner, marked $\frac{1}{4}$ on W. face, from which:
- A live oak, 6 ins. diam., bears N. 69°45' W., 41 lks. dist., marked $\frac{1}{4}$ S 22 B T
 - A juniper, 4 ins. diam., bears S. 87°30' E., 35 lks. dist., marked RES $\frac{1}{4}$ S 23 B T
- and build mound of stone ~~2x1~~ $\frac{1}{4}$ ft., 3 ft. west of corner.
- 44.00 Top of 450-foot ascent in saddle of ridge bears N. 70° W. and S. 70° E.
- 52.00 Begin steep descent bears S. 70° W. and S. 70° E. down slide rock shoot in jagged cliff. About 8.00 chs. west of line begins a formation of vertical columns of rock forming vertical cliff.
- 70.50 Branch 30 lks. wide (water 5 lks. wide, 4 ins. deep), course west., base of 500-foot descent; begin steep ascent.
- 80.44 Set iron U. S. Forest Reserve Boundary Post No. 52, 6 ins. in ground to rock and build mound of stone, 7 ft. base, 3 ft. high, around same, for boundary marking and W. C., marked:
- W C on top of cap
 - T 16 S S 23 in N. E. quadrant
 - R 29 E S 26 in S. E. quadrant
 - S 27 in S. W. quadrant
 - S 22 in N. W. quadrant
- RESERVE in N. E. quadrant, with 2 notches on E. and S. sides.
- 80.66 By prorating measurement. Set porphyry limestone 22x10x8 ins., 4 ins. in ground to rock, and build mound of stone 3 x 1 ft. around same for corner of secs. 22, 23, 26 and 27 marked with 2 notches on E. and S. faces, from which:
- A juniper, 12 ins. diam., bears N. 62°15' E., 196 lks. dist., marked RES T 16 S R 29 E, S 23 B T
 - A live oak, 7 ins. diam., bears S. 67°15' E., 236 lks. dist., marked T 16 S R 29 E S 26 B T
- No other trees available.
Land, mountainous and broken.
Soil, rocky and stony, 4th rate.
Timber, scattering live oak and juniper; manzanita brush.

-
- From corner of secs. 22, 23, 26 and 27 I run S. 0°01' E. on true line between secs. 26 and 27, ascending through scattering timber and brush.
- 1.40 Top of ridge bears N. 80° W. and S. 80° E., 250 ft. above branch to the N., saddle in ridge bears E. 1.00 ch. distant.
- 2.50 Begin descent bears E. and W.
- 9.60 Draw, 5 lks. wide, course S. W., base of 50-foot descent, begin ascent.
- 16.30 Top of 40-foot ascent on west end of spur, begin rocky descent, bears N. W. and S. E.
- 20.00 Branch 10 lks. wide, course N. W. (storm water, 5 lks. wide, 2 ins. deep) base of 150-foot descent, begin rocky broken ascent through brush.
- 40.33 At the $\frac{1}{4}$ sec. corner between secs. 26 and 27, which

CHIRICAHUA FOREST RESERVE BOUNDARY.

T. 16 S., R. 29 E.

Chains.

is a stake 3 ins. square, 3 ft. long, marked $\frac{1}{2}$ S on W. face, and set in mound of stone and witnessed by two bearing trees, as called for in notes of General Land Office..

Land, broken and hilly.

Soil, rocky and stony, 4th rate.

Timber, live oak, pinion and juniper; manzanita brush.

Note: This line from $\frac{1}{2}$ corner between secs. 26 and 27 to north boundary of township was never run, and the original notes as furnished by the General Land Office are fraudulent beyond the shadow of a doubt.

Note: As it is evident from the notes of the General Land Office, taken in connection with the topography of the country, that the corner of secs. 23, 24, 25 and 26, has never been set and that line between secs. 25 and 26 was never run further north than the $\frac{1}{2}$ corner and that line between secs. 23 and 26 was never run. I therefore run north between secs. 25 and 26 from the $\frac{1}{2}$ corner as follows.

April 15, 1905.

April 16:

The $\frac{1}{2}$ sec. corner between secs. 25 and 26 is an oak post set in mound of stone and marked $\frac{1}{2}$ S on W. face. Post being partly decayed I replace with a limestone 20x10x8 ins., set 12 ins. in ground, for $\frac{1}{2}$ sec. corner, marked $\frac{1}{2}$ on W. face, from which: original witness tree:

A juniper, 14 ins. diam., bears S. 69°15' W., 81 lks. dist., instead of S. 45° W., 90 lks., as called for in old notes, I remark $\frac{1}{2}$ S 26 B T. The original S.E. tree is still in evidence, though dead. I therefore mark in its place:

A juniper, 30 ins. diam., which bears S. 80° E., 196 lks. dist., I mark RES $\frac{1}{2}$ S 25 B T

At this $\frac{1}{2}$ corner I set off 32°00'30" on latitude arc and 10°02'15" N. on declination arc and at 7.30 a.m., l.m.t., establish meridian with solar.

Thence I run

N. 0°01' W. on true line between north halves of secs. 25 and 26, along rocky and brushy east slope, gradually ascending, scattering timber.

14.75 Draw, 10 lks. wide, course S. 20° E., begin abrupt ascent.

27.00 Top of 550-foot ascent at top of vertical column cliffs, bears N. 60° E. and S. 60° W., thence over broken surface.

32.70 Head of ravine course N. W.

40.33 Set porphyritic limestone 20x8x8 ins., 3 ins. in ground to rock and build mound of stone, 3 ft. base, 1 ft. high, around same for corner of secs. 23, 24, 25 and 26, from which:

A pinon, 12 ins. diam., bears S. 63°15' E., 178 lks. dist., marked T 16 S R 29 E S 25 B T

No other trees available on account of cliffs.

No trace of old corner and notes show plainly that line was never run.

Note: As there is no reported survey on north to connect with I establish this corner by true line N. 0°01' W., making distance equal to distance on west side of section as found.

Land, precipitous, bare washed rock, columnar cliffs.

Soil, bare rock and rocky, 4th rate.

Timber, pinion, oak and manzanita brush.

207

CHIRICAHUA FOREST RESERVE BOUNDARY.

T. 16 S., R. 29 E.

Chains. From corner of secs. 23, 24, 25 and 26, as just established by me, I run West on random line between secs. 23 and 26, over broken rock surface, scattering timber and brush.

40.00 Set stake for temporary 1/4 sec. corner.

79.90 Intersect N. and S. sec. line 42 lks. S. of corner of secs. 22, 23, 26 and 27.

Thence from corner to secs. 22, 23, 26 and 27 I run S. 89°42' E. on true line between secs. 23 and 26, over rocky broken land, through timber and brush along N. slope.

1.50 Swail, from saddle, course N.

6.20 North point of rock pinnacle, thence over very broken rocky crags, along N. slope.

13.00 A 50-foot rock ledge projecting from south. 50 lks. N. of line is a round balanced rock 15 ft. in diam. on top of 20-foot rock pillar.

18.00 Ravine, 10 lks. wide, course N. W., begin abrupt broken rocky ascent, bears N. and S.

26.00 Top of 350-foot ascent bears N. 80° E. and S. W., Thence along steep brushy N. slope.

29.25 Wash, 3 lks. wide, course N. W. thence gradual ascent bears N. 70° E. and S. 70° W., over broken rocky surface, dense oak and pinign brush.

39.50 Top of 150 ft. ascent, bears N. 20° E. and S. 20° W

39.67 Set U. S. Forest Reserve Boundary Post No. 53, which is an iron post, 16 ins. in ground, with mound of stone 5 ft. base 2 1/2 ft. high around same for boundary marking and witness corner to 1/4 sec. corner, marked:

1/4 S 23 on N. edge.

S. 26 on S. edge.

W. C. on top of cap.

RESERVE in N. W., N. E. and S. E. quadrants.

39.95 Cut cross (+) on ledge in place 8x3x1 1/2 ft. above ground for 1/4 sec. corner from which

A juniper, 10 ins. diam. bears N. 70°30' W. 47 lks. dist., marked RES. 1/4 S. 23 B T

A pinion 6 ins. diam, bears S. 49°15' W. 30 lks. dist., marked 1/4 S 26 B T

And 3 ft. N. of cross, build mound of stone 2 1/2 X 2 ft.

42.20 Begin precipitous descent of columnar rock cliff bears N. 20° East and S. 20° W.

48.00 Base of 200-ft. descent in saddle which drains to N. and S.

52.80 Top of 80ft. ascent on ledge of washed rock pinnacle Thence descending

59.00 Base of 180 ft. descent, Draw 8 lks. wide, course N. 20° E.

63.00 North point of low rock ridge.

69.00 Begin descent, bears N. 80° W. and S. E.

72.00 Base of 100-ft. descent, draw 5 lks. wide, course N. Draw 10 lks. wide, course N. W., Begin ascent of rock cliff.

79.00 Top of 200-ft. ascent, bears N. & S. 5 lks. S. of line is north end of natural rock bridge, which is 12 ft. wide and flat on top, a 40 ft. span and 40 ft. arch and is isolated from cliff back ground to the east, a small wash draining under the arch.

79.90 Cor. of Secs. 23, 24, 25 and 26. Land, precipitous, broken bare washed rock in vertical columnar formation. Soil, bare rock and rocky 4th rate. Timber, pinion, oak and manzanita brush.

253
CHIRICAHUA FOREST RESERVE BOUNDARY.

T. 16 S., R. 29 E.

- Chains. At the 1/4 sec. corner between Secs. 23 and 26 I Set off $10^{\circ} 5'45''$ N. on declination arc and at apparent noon, April 16th, observe sun on meridian and obtain a reading of $32^{\circ} 00'30''$ on latitude arc.
-
- From the 1/4 sec. corner between Secs. 25 and 26, previously described, I run
N. $89^{\circ}42'$ W. on random line through center of Sec. 26.
- 79.85 Intersect west boundary of Sec. 26, 7 lks. N. of 1/4 sec. corner between Secs. 26 and 27.
Thence from this 1/4 sec. corner I run S. $89^{\circ}45'$ E. Through scattered small timber and brush.
over broken surface, descending.
- 7.20 Draw, 10 lks. wide, course S. 20° E.
Base of 200-ft. descent.
Begin ascent.
- 11.90 Top of 100-ft. ascent, bears N. W. and S. E.
13.80 Begin descent, bears N. E. and S. W.
21.00 Head of draw, course S. E.
Base of 70-ft. descent
Thence along south slope of butte
- 23.40 4 chs. N. of line is 80 ft. rock pinnacle, on summit of butte.
Begin descent, bears N. E. and S. W.
- 30.00 Ravine, 20 lks. wide, course S. 20° W., base of 200-ft. descent.
Begin ascent.
- 38.00 Top of 200-ft. ascent, bears N. W. and S. E.
39.73 (Distance determined after N. and S. center line run).
At true point for center of section I mark cross (C $\frac{1}{4}$) C 1/4 N. of cross on bare soft limestone ledge, 40 ft. square, visible flush with surface, from which
A pinion, 8 ins. diam., bears N. $30^{\circ} 45'$ E.
70 lks. dist, marked RES C 1/4 S. 26 B T.
A pinion 6 ins. diam, bears S. 39° W.,
70 lks. dist, marked C. 1/4 S. 26 B T.
- 40.18 Set iron U. S. Forest Reserve Boundary Post No. 54, 22 ins. in ground and build mound of stone 5x2 ft. around same, for boundary marking and witness corner, marked:
CENTER, S 26 around on edge
W C on top of cap.
RESERVE in N. E. quadrant.
- 45.00 Gulch, 10 lks. wide, course S.
Begin ascent of cliff, bears N. 80° W. and S. 80° E.
47.85 Point of rock cliff from N.
50.00 Gulch, 10 lks. wide, course S. 20° W.
53.00 Top of 300-ft. cliff, bears N. 80° W. and S. 80° E.
59.60 Begin precipitous descent of cliff, bears N. 30° E. and S. 30° W.
77.00 Base of 550-Ft. descent.
79.74 Set Iron U. S. Forest Reserve Boundary Post No. 55, 28 ins. in ground and build mound of stone 5 ft. base 1 1/2 ft. high around same for boundary marking and witness corner, marked:
W. C. on top of cap.
1/4 S. 25 around E. edge.
1/4 S. 26 on W. edge,
RESERVE in N. W., N. E. and S. E. quadrants.
- 79.85 The true 1/4 sec. corner between Secs. 25 and 26. Land, precipitous and broken.
Soil, bare rock and rocky 4th rate.
Timber, pinion, oak and manzanita brush.
April 16, 1905.

CHIRICHUA FOREST RESERVE BOUNDARY.

T. 16 S., R. 29 W.

Chains

April 17, 1905.

- At the 1/4 sec. corner, between secs. 26 and 35 which is a juniper tree, marked and witnessed as described in notes of General Land Office. Thence I run north on random line through center Sec. 26.
- 39.58 Intersect true E. and W. center line, 36 lks. W. of its center (or half way point)
- 79.33 Intersect north boundary of section, 33 lks. W. of 1/4 sec. corner between secs. 23 and 26. Thence from 1/4 corner, between secs. 23 and 26 I run S. 0°14' W. on true line through center Sec. 26 Over ~~rock~~ broken rocky surface, small timber and brush.
- 3.40 Begin descent of cliff, bears N. 10°E and S. 5°W. Over broken rock pinnacles along E. side of cliff,
- 22.57 On top of lone column, on east side of top of butte. Thence precipitous descent.
- 32.30 Draw, 10 lks. wide, course W. Base of 500-ft. descent. Begin ascent brushy.
- 36.80 Top of 200-ft. ascent, bears E. and W.
- 37.30 Begin precipitous descent, 100-ft. vertical cliff. Thence steep descent, bears E. and W.
- 40.30 At true center corner described on page
- 65.30 Base of 450 descent, bears E. and W. Enter bottom land.
67. Bonita Creek, 50 lks. wide, 8 ins. deep, course W.
- 71.60 Road bears N. 80°E. and S. 80°W.
- 79.88 1/4 Sec. corner, between secs. 26 and 35. Land, precipitous and broken. Soil, bare rock and rocky 4th rate. Some bottom land along Bonita Creek, rocky, sandy loam, 3rd rate. Timber, small pinion and oak. Along Bonita Creek, pine, oak and juniper.

April 17, 1905.

At the 1/4 sec. corner, between Secs. 25 and 26, previously described, I set off 10°27' N. on declination arc and at apparent noon, April 17, observe sun on meridian and obtain reading of 32°00'15" on latitude arc.

Thence at 1 p.m., I run

South on random line between sections 25 and 26.

- 39.67. Corner of Secs. 25, 26, 35 and 36, bears W. 25 lks. distant.

Thence returning to the 1/4 Sec. corner from which I run

S. 0°21' W. on true line between secs. 25 and 26, Over rolling surface through timber and brush.

- 2.20 Wash, 5 lks. wide, course S. 70° E.
- 5.30 Wash, 3 lks. wide, course East, 30 lks. to creek.
- 8.00 Enter bed of Bonita Creek, course S. from N. 20° E. Stream bed about 60 lks. wide, water 20 lks. wide 8 ins. deep, clear, fresh water.
- 11.00 Leave bed of creek, course S. 20°E. from N.
- 13.45 Road bears N. 70°E. and S. 70°W.
- 16.00 Bonita Creek, course S. 70°W., from N. 20°E., at a point where a dry fork enters from S. 30°E.
- 25.00 Leave bottom land.
- 36.00 Begin gradual ascent, bears N. E. and S. W. Top of 50-ft. ascent on west slope of ridge.
- 39.67 Begin descent, bears N. W. and S. 70°E.
- 39.67 Intersect cor. of Secs. 25, 26, 35 and 36 which is a post, badly decayed, but marks in Roman numerals still visible.
- I replace with a cement stone 18x3x6 ins. set on conglomerate ledge in mound of stone 3x2 ft. marked with 1 notch on E. and S. faces from which

237

CHIRICAHUA FOREST RESERVE BOUNDARY.

T. 16 S., R. 29 E.

Chains.

- A new live oak 10 ins. diam., bears N. 77° 45' E., 207 lks. dist., marked: RES T 16 S R 29 E S 25, B. T.
- A new live oak, 5 ins. diam., bears S. 18° 30' E., 54 lks. dist., marked, RES T 16 S R 29 E S, 36 B. T.
- An original live oak, 10 ins., diam., bears South 25°W., 81 lks. dist., instead of S. 17°W., 73 lks. as called for, I remark T 16 S. R. 29 E. S 35, B. T.
- A new live oak, 8 ins. diam., bears N. 32°W. 118 lks. dist., marked T 16 S R 29 E, S 26, B. T.

Also

- An original oak tree, 4 ins. diam., bears S. 29°30' E., 68 lks. dist., instead of
- An oak 8 ins. diam., S. 12°30' E., 54 lks., as called for, which I leave as found, being too small to admit of re-marking.
- Old N. E. tree called for in notes, not found.

Note:- The original corner was set in mound of stone on solid rock and not 24 ins. in ground as called for which is no evidence of same having been moved, as there is no place in vicinity where soil will admit of setting post any depth.
 Land, level and rolling.
 Soil, rocky and gravelly sandy loam, 3rd and 4th rates.
 Timber, live oak, -juniper and pine.

40.00
80.00

From corner of Secs. 25, 26, 35 and 36, I run South on random line between secs. 35 and 36. Set stake for temporary 1/4 sec. corner. No trace of old corner found.
 Set stake for temporary corner of Secs. 1, 2, 35 and 36. No trace found of old corner.
 Thence to establish corner of secs. 1, 2, 35 and 36 on S. Bdy. of T. 16 S R 29 E, I commence at Cor. of Secs. 2, 3, 34 and 35, which is a porphyry 18x8x6 ins., properly marked and set on top of ground in small mound of stone. I set same stone 10 ins. in ground and build mound of stone 2 1/2 x 1 1/2 ft. W. of cor. 4 ft. dist.
 April 17, 1905.

40.00
80.00
40.00
80.00

April 18, 1905.
 Thence I run East on random line between secs. 2 and 35. Set stake for temporary 1/4 sec. cor. No trace of old corner found.
 Set stake for cor. Secs. 1, 2, 35 and 36, called Stake No. 2, and is 3 lks. N. and 37 lks. W. of stake No. 1 set on line from N. Thence from Stake No. 2, continue East on random line between Secs. 1 and 36. Set stake for temp. 1/4 cor. No trace of old Cor. Set stake for Temp. cor. Tps. 16 and 17 S. Rgs. 29 and 30 E.
 Note:- As there is no survey reported east or N. of this corner, I proceed to establish same at the intersection of this line E. from Cor. of Secs. 2, 3, 34 and 35 T. 16 and 17 S. R. 29 E., and of a line N. from cor. of Secs. 1, 6, 7 and 12 T 17 S Rgs. 29 & 30 E. Thence from cor. of secs. 1, 6, 7 and 12, which is a pine post 4 ins. sq., 2 ft. above ground, in mound of stone and correctly marked, Roman numerals, from which A pinion (original) 8 ins. diam., bears N. 52°E. 4 lks. dist. as called for in notes of General Land Office, old markings left visible.
 Add RES.

239

CHIRICAHUA FOREST RESERVE BOUNDARY.

T. 17 S. R. 29 and 30 E.

- Chains. A pinion (original) 8 ins. diam., bears S. 45° E.
70 lks. dist., instead of S. 45° E. 67 lks.
as called for. Old marking left visible.
Add RES.
- A pinion (original) 10 ins. diam., bears
S. 67° 30' W., 67 lks. dist. I-mark
T. 17 S. R. 29 E. S. 12 B T.
Old S. W. bearing tree is dead and fallen.
- A juniper (original) 6 ins. diam., bears
N. 77° W., 19 lks. dist., as called for.
Old markings left visible.
- Thence from the corner I run
North on random line.
- 40.00 Set stake for temporary 1/4 sec. corner. No trace
of old corner.
- 80.75 Intersect line previously run east, 30 lks. W. of
temporary stake. Thus making the two miles
between Secs. 2 and 35 and 1 and 36, 30 lks.
short, or 15 lks. short to the mile.
- Note.- An examination of the original notes of
General Land Office will clearly show that these
lines were fraudulently reported, as country
is very rough and a discrepancy more likely to
occur in measurement than alignment, I give
alignment precedent over measurement, and place
the township corner at intersection of the two
lines, no survey existing, or reported to the
east or north.
- Thence returning to Cor. of Secs. 2, 3, 34 and 35 of
Tps. 16 and 17 S. R. 29 E., from which I run
East on true line between secs. 2 and 35
Over gently rolling rocky prairie.
- 1.50 Draw, 5 lks. wide, course S. W.
Thence gradual ascent.
- 17.30 Top of 60-Ft. ascent and enter very scattering timber,
bears N. W. and S. E.
- 37.00 Draw, 15 lks. wide, course N. W. from S. 30° E.
- 39.93 Set porphyry stone 20x14x8 ins. 6 ins. in ground
to rock and build mound of stone 3 x 1 1/2 ft.
around same for 1/4 Sec. Cor., marked 1/4 on
north face from which
- A pinion, 7 ins. diam., bears N. 19° 45' E.,
48 lks. dist., marked 1/4 S 35 B T.
- A juniper, 6 ins. diam., bears S. 48° 30' E.
72 lks. dist., marked 1/4 S 2 B T.
- 43.80 Enter bed of draw, course S. 80° W. from E.
- 49.50 Leave bed of draw, course W. from S. 80° E.
Timber becomes thicker and brush in clusters.
Begin ascent.
- 66.00 Top of 600-ft. ascent on extreme south point of
cliff edge.
Begin precipitous descent, cliff bears N. 80° E. and
N 80° W.
- 71.50 Ravine, 15 lks wide, course S 70° W., base of 150 ft.
descent; begin steep broken ascent.
- 78.30 Top of 150 ft. ascent, bears N. 80° E. and S. 80° W.
- 79.85 Set porphoritic limestone 22x16x10 ins., 12 ins. in
ground for cor. secs. 1, 2, 35 and 36, marked
1 notch on E. and 5 on W. faces from which
- A pinion, 10 ins. diam., bears N. 30° 45' E.,
109 lks. dist., marked, T 16 S R. 29 E. S36 B T
- A pinion, 10 ins. diam., bears S. 54° W.,
120 lks. dist., marked, T. 17 S R 29 E S1 B T.
- A pinion, 7 ins. diam., bears S. 27° 45' W.
23 lks. dist., marked T 17 S. R. 29 E S2 B T.
- A pinion, 10 ins. diam., bears N. 43° W. 55 lks.
dist., marked T. 16 S R. 29 E. S35 B. T.
- Land, rolling and precipitous.
Soil, rocky and gravelly 4th rate.
Timber, pinion, live oak and juniper.

261

CHIRICAHUA FOREST RESERVE BOUNDARY.

South Bdy. T. 16 S. R. 29 E.

- Chains. From Cor. of sections 1, 2, 35 and 36 on south boundary of T. 16 S. R. 29 E. as just set by me
I run
East on true line between secs. 1 and 36.
Over broken rolling tableland, through pinion timber.
7.30 Flat rock bottom draw, 6 lks. wide, course N. 60°W.
28.30 Begin precipitous descent of rock cliff, bears
N. E. and S. 70°W.
32.90 Draw, 10 lks. wide, course S. W., base of 350 ft.
descent.
Begin rocky broken ascent.
37.00 Top of 150-ft. ascent on south point of cliff.
37.30 Isolated pillar of rock 40-ft. high, with balanced
rock on top, bears S. 10 lks. dist.
39.00 Line cuts south edge of vertical cliff.
Begins descent, bears N. 60°E. and S. 60°W.
39.93 Set limestone 24x14x12 ins. 15 ins. in ground for
1/4 Sec. corner, marked 1/4 on N. face, from which
bears
A pinion 8 ins. diam., N. 21°15' E., 55 lks.
dist., marked; RES 1/4 S. 36 B. T.
A cedar, 18 ins. diam., S. 47°W. 29 lks. dist.
marked, 1/4 S. 1 B T.
40.15 Set Iron U. S. Forest Reserve Boundary Post No. 58
26 ins. in ground with mound of stone, 6 ft. base,
1 1/2 ft. high around same for boundary marking
and witness corner, marked.
W. C. on top of cap.
1/4 S. 36 on north edge.
S. 1 on south edge.
RESERVE in N. E. quadrant.
42.30 Rocky, dry branch, 20 lks. wide, over large boulders
course S. 70°W.
Base of 100-ft. descent.
Begin abrupt broken ascent cedar timber.
47.60 Top of 150-ft ascent, bears N. 80°E. and S. W.
Thence gradual ascent along N. slope.
49.90 Draw 10 lks. wide, course N. W.
57.40 Draw 10 lks. wide, course N. W.
61.00 Draw 8 lks. wide, course N. 30° W.
65.00 Top of ascent, 250 ft. above Branch on N. slope,
thence along N. slope.
67.40 Draw 5 lks. wide, course N. 20°W.
70.60 Wash, 4 lks. wide, course N. 20°W.
79.65 Set Iron U. S. Forest Reserve Boundary Post, No. 59
24 ins. in ground with mound of stone 5x1 3/4 ft.
around same for boundary marking and auxiliary
witness corner of Tps. 16 and 17 S. Rgs. 29 and
30 E, marked:
W. C. on top of cap.
T 16 S. S. 31 in N. E. quadrant.
R 30 E S 6 in S. E. quadrant.
T 17 S. S. 1 in S. W. quadrant.
R 29 S. S. 36 in N. W. quadrant.
RESERVE in N. W., N. E. and S. E. quadrants,
with 6 notches on N. E. S. and W. faces
79.85 True point for corner of Tps. 16 and 17 S., Rgs. 29
and 30 E., falls in
Draw, 10 lks. wide, course S. 70°W.
(Rock W. C. with B. T.'s set 15 lks. south on line
between 1 and 6).
Land, mountainous and precipitous.
Soil, rocky and 4th rate.
Timber, pinion and juniper.
Cedar of commercial value along draws, especially
in S. W. 1/4 of Sec. 36.

2103

CHIRICAHUA FORESE RESERVE BOUNDARY.

T 17 S. Rgs. 29 and 30 E.

- Chains. Thence returning to Cor. of Secs. 1, 6, 7 and 12,
from which I run
North on true line, between secs. 1 and 6.
Broken, rocky ascent through pinion timber.
- .08 Set U. S. Iron Forest Reserve Boundary Post No. 60,
28 ins. in ground, with mound of stone 5x1 1/2 ft.
around same for boundary marking and witness cor.
marked:
W. C. on top of cap.
T 17 S. S 6 in N. E. quadrant.
R 30 E S 7 in S. E. quadrant.
S12 in S. W. quadrant.
R 29 E S 1 in N. W. quadrant.
RESERVE in N. E. and S. E. quadrants, with 1
notch on N. and 5 on S. sides.
- 22.40 Top of 400-ft. ascent on back-bone of ridge, bears
N. E. and S. W.
- 22.50 40-ft. rock pillar bears E. 60 lks. dist, thence along
steep W. slope about 80 lks. W. of cliff ledge.
- 27.50 Begin steep descent, bears N. E. and S. W.
- 35.00 Steep wash, 5 lks. wide, course N. 20° W.
- 40.37+ Set granite rock 24x10x6 ins., 18 ins. in ground,
for 1/4 sec. cor., marked 1/4 on W. face, from which
An oak, 6 ins. in diam., bears N. 71° E., 158
lks. dist., marked RES. 1/4 S. 6 B. T.
An oak, 6 ins. diam., bears S. 77° 30' W.,
47 lks. dist, marked 1/4 S. 1, B. T.
- 40.60 Wash, 15 lks. wide, course N. W.
- 45.50 Over channel of Branch, course S. 70° W.,
Base of 800-ft. descent.
- 3820 Main channel, 40 lks. wide of dry Branch, over
boulders, course S. 70° W.
- 52.80 Draw, 15 lks. wide, course S. 20° E.
Begin ascent.
- 57.70 Top of 100-ft. ascent on S. W. slope of partially
bare spur.
Thence along W. slope.
- 63.70 Draw 10 lks. wide, course S. 20° W.
Begin steep ascent.
- 74.00 Top of cliff, 500 ft. above draw, bears N.E. & S. 60° W.
- 75.20 Begin gradual rocky descent, bears N. E. and S. W.
- 80.60 Set granite stone 18x10x6 ins., 12 ins. in ground
for witness corner to cor. of Tps. 16 and 17 S.
Rgs. 29 and 30 E., marked W. C. on S. face, with
6 notches on E. E. S. and W. faces, from which
A juniper, 20 ins. diam., bears N. 75° 30' E.
128 lks. dist., marked W. C. RES T. 16 S.
R 30 E. S. 31 B. T.
A pinion, 8 ins. diam, bears S. 74° 30' E.,
166 lks. dist., marked W. C., RES T. 17 S.
R. 30 E. S 6 B. T.
A pinion, 6 ins. diam, bears S. 52° W. 55 lks.
dist., marked W. C. T. 17 S. R 29 E S 1 B. T
A juniper, 6 ins. diam., bears N. 31° W., 28 lks.
dist., marked W. C., RES T. 16 S. R. 29 E.
S. 36 B. T.
- 80.75 True point for corner Tps. 16 and 17 S. Rgs 29 and
30 E. which is in a bed of flat draw, 10 lks.
wide, course S. 70° W.

April 19, 1905.

April 17, 1905

Thence returning to Cor. of Secs. 25, 26, 35 and 36
(see random line page 63)

From which I run

S. C 22' W. on true line between secs. 35 and 36
through timber and brush.

1.00 Foot of rocky hill, enter bottom land.

4.00 South prong of Bonita Creek, 50 lks. wide, water
15 lks. wide 8 ins. deep. Course N. 80° W.

265'

CHIRICAHUA FOREST RESERVE BOUNDARY.

T. 16 S., R. 29 E.

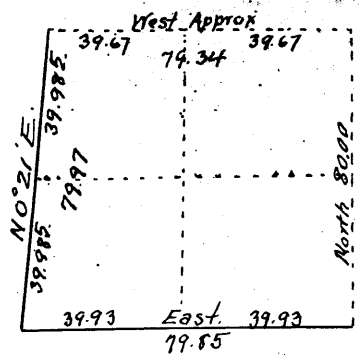
Chains.

- 5.80 Dim road, bears N. 80°W. and S. 80°E.
- 6.00 Begin ascent, bears E. and W.
Leave bottom land.
- 7.50 Top of 30 ft. bank, bears E. and W.
Thence over rocky bench.
- 15.50 Draw, 15 lks. wide, course N. W.
Begin ascent, bears N. W. and S. E.
- 23.75 Draw 10 lks. wide, course N. E.
- 38.00 Draw 5 lks. wide, course N. 20°W.
- 39.98± At exact point for 1/4 Sec. corner mark cross (-)
on rock ledge 6x2x2 ft. above ground, mark 1/4 on
vertical side of ledge, east of cross (west is
uneven surface), for 1/4 sec. corner, from which
bears
A pinion, 14 ins. diam, S. 53°E., 57 lks. dist.
marked, 1/4 S. 36 B. T.
A pinion 6 ins. diam., N. 22°W. 68 lks. dist.
marked 1/4 S. 35 B. T.
- 40.20 Steep, rocky wash, 8 lks. wide, course N. 30°E.
Ascent becomes very abrupt.
- 43.15 Top of 350 ft. ascent on point of rock, project-
ing from S. W.
Thence along steep broken E. slope.
- 47.60 Ravine, 10 lks. wide, course N. E.
Begin precipitous rocky ascent.
- 54.50 Top of ascent bears N. 80°W. and S. 80°E. on rock
cliff 880 ft. above Bonita Creek.
- 66.00 Head of 50-ft. ravine, course S. 60°W, drains to
Piney Creek.
- 77.50 Ravine 30 ft. deep, course S. 80°W.
- 79.97 Cor. of sections 1, 2, 35 and 36 as previously
set by me.
Land, precipitous, broken and rolling.
Soil, rocky and stony, 4th rate.
Timber, pinion, juniper and oak.

finch

April 20, 1905.

To establish center of Sec. 36, T. 16 S. R. 29 E.,
the north nor east boundaries are neither reported
as surveyed.
I have the bearings and distances of the west and
south boundaries, as shown on diagram below.



If the other sides of the section were to be estab-
lished, it would be done by running north 80 chs.
from township corner, then West (practically) to
corner of Secs. 25, 26, 35 and 36, which distance
should be 79.34.
Therefore, the true position of the center corner
as would then be established, would be theoretically
N. 0 11' E.

- 39.99 From the 1/4 on S. boundary of township and east
- 39.80 From the 1/4 on W. boundary of section.

267

CHIRICAHUA FOREST RESERVE BOUNDARY.

T. 16 S. R. 29 E.

- Chains. Hence,
 From 1/4 Sec. corner between Secs. 35 and 36, I run
 East on random line, through center of Sec. 36.
- 39.80 Set stake for temporary center corner.
 Thence from 1/4 Sec. corner on S. bdy., Sec. 36, I run
 N. 0°11' East on random line
- 40.03 Intersect E. and W. center lines, 8 lks. E. of stake
 just set.
 Thence returning to the 1/4 sec. corner, between
 Secs. 35 and 36, I run
 East on true line through center of Sec. 36.
 Over broken, rocky surface, through timber and
 brush, descending.
- 0.06 Set Iron U. S. Forest Reserve Boundary Post No. 56,
 12 ins. in ground to rock and build mound of stone
 7 ft. base 3 ft. high around same for boundary
 marking and witness corner, marked
 W. C. on top of cap.
 1/4 S. 35 on west side.
 S. 36 on East side.
 RESERVE in N. E. quadrant.
- 0.25 Wash, 5 lks. wide, course N.
 7.00 Draw, 5 lks. wide, course E.
 Base of 110 ft. descent, thence along gradual N.
 slope.
- 15.00 Draw, 10 lks. wide, course N. 20°W.
 16.70 Draw, 5 lks. wide, course N. W.
 18.00 Draw 15 lks. wide, course N. W.
 Begin ascent, 50 ft. vertical red porphyry cliff.
- 33.00 Line touches S. point of 100 ft. vertical cliff,
 on isolated pillar of rock, 100 ft. high, bears
 S. 40 lks. dist.
- 35.50 Main peak of cliff, bears E. 2 chs. dist.
 36.65 Top of cliff, bears N. 80°W. and S. 80°E.
 600-ft. above draw.
- 39.88 Set Iron, U. S. Forest Reserve Boundary Post No. 57,
 12 ins. in ground to rock and build mound of stone.
 8 ft. base, 3 ft. high around same for boundary
 marking and center corner of Sec. 36., marked
 CENTER S 36 around N. face.
 RESERVE in N. W., N. E., and S. E. quadrants.
 from which
 A pinion 8 ins. diam., bears N. 75°E. 25 lks.
 dist., marked RES. C 1/4 S. 36 B. T.
 A pinion 8 ins. diam., bears S. 32°E. 57 lks.
 dist., marked, RES. C 1/4 S. 36 B. T.
- Land; precipitous and broken.
 Soil, bare rock and rocky 4th rate.
 Timber, cedar, pinion and live oak.
-
- Thence from center corner of Sec. 36, (Post No. 57),
 I run
 S. 0°11' W., on true line through center of south
 half Sec. 36.
 Through timber and brush very broken. Descent.
- 3.00 Head of wash, 5 lks. wide, course S. W.
 4.82 On west end of rock point projecting from E., thence
 80 ft. vertical descent, and continue steep broken
 descent.
- 10.20 Draw 10 lks. wide, course S. 80°W., base of 450 ft.
 descent.
 Begin steep ascent.
- 15.00 Top of 300 ft. ascent on west end of spur.
 Begin descent.
- 20.50 Draw 10 lks. wide, course N. W., base of 150 ft.
 descent.
 Begin steep rocky ascent, bears N. W. and S. E.
- 31.00 Top of 500 ft. ascent, ridge bears N. 60°E. and S. 60°W.
 32.00 Begin steep broken descent, bears N. 60°E. and S. 60°W.
 40.03 At the 1/4 Sec. Cor. on S. Bdy. of Sec. 36.

2109

CHIRICAHUA FOREST RESERVE BOUNDARY.

T. 16 S. R. 29 E.

Chains. Land, precipitous and broken.
Soil, bare rock, rocky 4th rate.
Timber, pinion, cedar and oak.
April 20, 1905.

T. 17 S. RGS 29 and 30 E.

April 21, 1905.

At cor. of secs. 1, 6, 7 and 12, I set off
31°58' 15" on latitude arc and 11°46' 45" N. on
declination arc and at 7 a. m., April 21, deter-
mine meridian with solar.

Thence I run

39.50 South on random line between Secs. 7 and 12.
Intersect the 1/4 Sec. cor., described later.
Thence returning to cor. sec. 1, 6, 7 and 12, from
which, I run

South on true line, between Secs. 7 and 12, through
timber and brush descending.

4.50 Draw, 10 lks. wide, course S. 30°E.

15.00 Draw, 10 lks. wide, course S. W.

38.85 Dim road, bears N. 80°E. and S. 80°W.

39.03 Set Iron, U. S. Forest Reserve Boundary Post No. 61,
26 ins. in ground, and build mound of stone 3 ft.
base, 1 1/2 ft. high, for boundary marking on
south side of road, and as witness corner, marked,
W. C. on top of cap.
1/4 S 12 on west face.
S 7 on east face

RESERVE in N. E. and S. E. quadrants.

39.50 The 1/4 Sec. corner, at which point I find top of
old post rotted off and part of decayed post bot-
tom in ground, from which a juniper stump 15 ins.
diam (been cut and burned, no mark visible) bears
N. 51°30' W., 396 lks. dist, as called for in
notes of General Land Office.

At the corner point as thus proven, I set in place of
decayed post, a lime stone 18x10x6 ins. 12 ins. in
ground for 1/4 sec. corner, marked 1/4 on W. face
from which

- A live oak, 5 ins. diam, bears S. 18°15' E.
9 lks. dist, marked, RES. 1/4 S. 7 B. T.
- A live oak, 4 ins. diam., bears S. 72°45' W.
39 lks. dist. marked, 1/4 S. 12 B. T.

Thence, from the 1/4 Sec. corner, between Secs.
7 and 12, I run

20.00 South on random line between Secs. 7 and 12.
Set stake for temporary 1/16 corner.

40.00 No trace old sec. corner, and notes show
plainly that line was never run.

As there is no survey reported further south, I
proceed to establish corner at this point.

Thence returning to 1/4 Sec. cor., from which I run
South on true line between south halves of Secs. 7
and 12.

4.00 Over level land, through small timber and brush.
Old bed of road (abandoned -), bears E. and W.

6.70 Pinery Creek, 30 lks. wide, 10 ins. deep, course W.

10.00 Leave bottom land, begin ascent, bears E. and W.

11.50 Top of 40 ft. bank, thence gradual ascent over
stony and brushy bench.

16.50 Enter bed of draw, course N. 20°E. from S.

18.00 Leave bed of draw, course N. from S. 20°W.

20.00 Set Iron, U. S. Forest Reserve Boundary Post, No. 62,
24 ins. in ground, for boundary marking and 1/16
sec. corner, marked:

1/16 S 12 on W. face.

1/16 S 7 on E. face.

RESERVE in N.E., S.E., and S.W. quadrants,

271

CHIRICAHUA FOREST RESERVE BOUNDARY.

T. 17 S. Rgs. 29 and 30 E.

Chains. from which
 A pine 4 ins. diam., bears S. 33°30' E. 50 lks. dist., marked RES. 1/16 S. 7 B. T.
 A pine 20 ins. diam., bears N. 26°30' W., 183 lks. dist., marked 1/16 S. 12 B. T.
 30.15 Draw 8 lks. wide, course N, 30°W.
 40.00 Set cement stone 20x10x8 ins., 12 ins. in ground for cor. secs. 7, 12, 13 and 18, marked 4 notches on S., 2 notches on N. faces, from which
 Black pine, 8 ins. diam, bears N. 45°30' E., 63 lks. dist., marked, T. 17 S. R. 30 E. S 7 B. T.
 A black pine, 5 ins. diam., bears S. 36°E. 82 lks. dist., marked, T. 17 S. R. 30 E. S.18 B. T.
 A yellow pine, 20 ins. diam, bears S. 58°45'W, 179 lks. dist., marked T. 17 S. R. 29. E. S. 13, B. T.
 A yellow pine, 12 ins. diam., bears N. 1°30'W 109 lks. dist., marked T. 17 S. R. 29. E. S. 12 B. T., and build mound of stone 2 1/2 x 1 1/2 ft. W. of cor.
 A draw, course N. 30°W. is 30 lks. S. and 50 lks. W of this corner.
 Land, hilly and rolling.
 Soil, rocky and stony, 3rd and 4th rate.
 Timber, pinion, oak and pine.

At the 1/16 Sec. corner, between the S. E. 1/4 of sec. 12 and S. W. 1/4 sec. 7, I set off 11°50' N. on declination arc and 1°14' before noon l.m.t., April 21, 1905, observe sun on meridian and obtain reading of 31°57' 30" on latitude arc.

April 22, 1905.

T. 17 S. R. 29 E.

At the 1/4 Sec. cor. between Secs. 11 and 12, which is a stake in mound of stone (top of stake burned, no marks visible).
 Stump of old S. E. B. T. found and dead N. W. B. T. with marks visible, in evidence.
 In place of burned stake, position verified by old bearing trees, I set a lime stone 20x12x10 ins., 12 ins. in ground for 1/4 sec. corner, marked 1/4 on W. face, from which
 An oak 12 ins. diam, bears N. 33°30' E., 78 lks. dist., marked, 1/4 S. 12 B. T.
 A pine 6 ins. diam, bears S. 50°30' W., 35 lks dist., marked RES. 1/4 S. 11 B.T.
 At this 1/4 sec. corner, I set off 31°57' 45" on latitude arc and 12°7' N. on declination arc, and at 7 a.m., April 22, 1905, determine meridian with solar.
 Thence I run
 South on random line.
 20.00 Set stake for temporary 1/16 Sec. Cor.
 40.00 No trace of old sec. cor., notes prove line was never run, and as no survey exists or is reported to the south I proceed to establish this corner. Returning to 1/4 Sec. Cor., between secs. 11 and 12, from which I run
 South on true line between secs. 11 and 12.
 Ascend through scattered timber and dense brush.
 Wash, 3 lks. wide, course N. 20°E.
 18.00 Set Iron, U. S. Forest Reserve Boundary Post No. 63,
 20.00 28 ins. in ground and build mound of stone 3 1/2 x 1 ft. around same for boundary marking

and is oriented

CHIRICAHUA FOREST RESERVE BOUNDARY.

T. 17 S R. 29 E.

Chains. and 1/16 Sec. corner, marked,
 1/16 S. 11 on W. face.
 1/16 S 12 on E. face.
 RESERVE in S. W., S. E., and N. W. quadrants.
 from which
 A juniper, 18 ins. diam., bears S. 29°45' E.
 35 lks dist., marked, RES. 1/16 S.12 B.T.
 A pine, 5 ins. diam, bears N. 74° W., 58 lks.
 dist, marked, RES. 1/16 S. 11 B. T.
 On steep slide rock on N. slope.
 Thence ascending steep slide rock slope.
 29.00 Begin ascent of conglomerate cliff, bears N.W., and
 S. E.
 32.35 Top of 200 ft. cliff and 700 ft. above 1/4 Sec.
 corner, bears N. 70°W. and S. 70°E.
 Thence over rocky ridge.
 35.00 Begin descent, bears N. 70°W. and S. 70°E.
 40.00 Set lime stone 26x12x10 ins. 3 ins. in ground to
 rock and build mound of stone 3x1 1/2 ft. around
 same for sec. corner, marked with 4 notches on
 S. and 1 on E. faces, from which
 A juniper, 4 ins. diam., bears N. 21°W
 26 lks. dist., marked T.17 S R.29 E.
 S. 11 B. T.
 No other trees available.
 Land, precipitous and broken.
 Soil, bare rock, slide rock and rocky, 4th rate.
 Timber, live oak, juniper and pinion.

Rain p. m. of the 22nd.

April 21, 1905.

From 1/16 sec. corner, between the S. W. 1/4 of 7
 and through the S. E. 1/4 of Sec. 12 T. 17 S.
 Rgs. 29 and 30 E., as established by me, I run
 West on random line through center of south half
 section 12.
 79.50 Intersect W. boundary of sec., 6 lks. north of 1/16
 Sec. corner, between the S. E. 1/4 of sec. 11 and
 through the S. W. 1/4 of Sec. 12.
 Thence, returning to the 1/16 sec. cor. between
 the S. E. 1/4 of Sec. 12 and the S. W. 1/4 of
 Sec. 7, from which I run
 S. 89°57' W. on true line through center of south
 half of Sec. 12.
 Over rolling, rocky land, through timber and dense
 brush.
 .85 Draw, 10 lks. wide, course N. 10°W.
 14.10 Wash, 3 lks. wide, course N.
 21.50 Draw, 15 lks. wide, course N. 20°W.
 Begin ascent, bears N. W. and S. 20°E.
 31.00 Top of 100 ft. ascent on north end of spur.
 Begins descent, bears N. and S.
 37.00 Draw 25 lks. wide, course N: 30°W.
 Base of 100 ft. descent.
 Thence over rolling surface, sloping to north.
 48.10 Spring brook, 5 lks. wide, course N. 30°W.
 52.42 Wire fence bears N. E. and S. W.
 62.65 Wash, 3 lks. wide, course N.
 Ascent becomes steeper, bears N. 70°W. and S.70°E.
 77.00 Wash, 8 lks: wide, course N. 20°E.
 79.50 The 1/16 Sec. cor. between the S. E. 1/4 of sec. 11
 and the S. W. 1/4 of sec. 12, Post No. 63, previ-
 ously described.
 Land, rolling and broken.
 Soil, slide rock and rocky 4th rate.
 Timber, small live oak, pinion and juniper.

CHIRICAHUA FOREST RESERVE BOUNDARY.

T. 17 S.R. 29 E.

Chains.

April 24, 1905.

Note.- Notes of General Land Office, call for survey 3 miles south from corner of Secs. 2, 3, 10, and 11, but it is evident from comparison of topography of country with the notes that none exists and was never made. Therefore, to establish the 1/4 sec. corner between secs. 10 and 11,

At cor. of secs. 2, 3, 10 and 11, which is a juniper post, set in mound of stone, well preserved, marked and witnessed as called for in notes of General Land Office,

I set off 31°58'15" on latitude arc and 12°47'N on declination arc, and at 7 a.m., April 24, 1905, establish meridian with solar.

Thence I run

South on true line between secs. 10 and 11, rocky ascent, scattered timber.

- 5.50 Top of 100 ft. ascent, bears E. and W.
 - 8.00 Begin descent, bears N. 70°W. and S. 70°E.
 - 10.00 40 ft. cliff bears N. 60°W. and S. 70°E.
 - 16.40 Draw 15 lks. wide, course N. 70°W.
 - Base of 150 ft. descent, begin ascent.
 - 21.50 Top of 100-ft. ascent, begin descent, bears N. 70°W. and S. 70°E.
 - 39.00 Draw, 15 lks. wide, course N. 60°W., base 120 ft. descent.
 - 40.00 Find no trace of old corner. Set lime stone 18x10x8 ins. 12 ins. in ground for 1/4 sec. corner marked 1/4 on W. face, from which
 - A live oak, 7 ins. diam., bears S. 88°E. 91 lks. dist., marked, RES 1/4 S. 11 B. T.
 - A live oak, 9 ins. diam., bears N. 66°W. 13 lks. dist., marked 1/4 S. 10 B. T.
- Land, hilly and mountainous.
Soil, rocky and stony 4th rate.
Timber, live oak, pinion and juniper.

T. 3 S. R. 29 E.

From the 1/4 Sec. cor. between secs. 11 and 12, I run

West on random line, through center of Sec. 11.

- 80.00 Intersect the 1/4 sec. cor. between Secs. 10 and 11 as established by me.

Thence returning to 1/4 sec. cor., between Secs. 11 and 12, from which I run

West on true line through center of Sec. 11.

Rolling stony surface, sloping to the N., through dense oak brush.

- .08 Set Iron U. S. Forest Reserve Boundary Post No. 64, 28 ins. in ground with mound of stone 4 ft. base 1 1/2 ft. high around same, for boundary marking and witness corner, marked,
 - W. C. on top of cap.
 - 1/4 S. 11 on W. side.
 - 1/4 S. 12 on E. side.
 - RESERVE in S. W. quadrant.

- 1.50 Wash, 4 lks. wide, course N. 20°E.
- 7.80 Wash, 10 lks. wide, course N.
- 9.00 Draw, 10 lks. wide, course N. 20°E.
- Begin ascent, less brush, N. and S.
- 22.00 Top of 250 ft. ascent on N. end of spur from S.
- Thence along gradual N. slope.
- 32.85 Draw, 5 lks. wide, course N. W. for 3 chs., Thence N. 70°W.
- Heads in saddle 2 chs. south of line.
- 38.00 Cross back-bone of ridge, bears N. 80°W. and S. 80°E.
- Thence gradual descent along S. slope.

277

CHIRICAHUA FOREST RESERVE BOUNDARY.

T. 3 S R. 29 E.

Chains.
 57.50 Draw, 10 lks. wide, course S. W.
 73.25 Enter draw, 15 lks. wide, course W. from S. 70°E.
 Base of 250 ft. descent.
 76.00 Leave draw, course N. 70°W. from East.
 78.60 Wash 4 lks. wide, course N.
 80.00 The 1/4 Sec. cor. between Secs. 10 and 11.
 Land, hilly and mountainous.
 Soil, rocky and stony 4th rate.
 Timber, live oak, pinion and juniper scattering.

T. 17 S. R. 29 E.

At the 1/4 Sec. corner, between Secs. 10 and 11
 I set off 12°50'15" N. on declination arc, and at
 1^m50^s before noon l.m.t., April 24, 1905, observe
 sun on meridian and obtain reading of 31°58' on
 on latitude arc.
 Thence at 1 p.m., I run
 West on random line through center of Sec. 10.
 79.65 Intersect W. boundary of Sec. 10, 28 lks. S. of 1/4
 sec. Corner, between secs. 9 and 10, thence return-
 ing to the 1/4 Sec. cor. between secs. 10 and 11,
 from which I run
 N. 89°48' W. on true line, through center of Sec. 10.
 Through scattering timber and brush gradually as-
 cending.
 .15 Set Iron, U. S. Forest Reserve Boundary Post, No. 65
 20 ins. in ground and build mound of stone 5 ft.
 base, 2 ft. high, around same, for boundary marking
 and witness corner marked,
 W. C. on top of cap.
 1/4 S. 10 on W. side.
 1/4 S. 11 on E. side.
 RESERVE in S. W. and S. E. quadrants.
 13.00 Top of 150 ft. ascent on N. end of spur from S. E.
 15.50 Begin descent over 40 ft. rock ledge, bears, N.W. and
 S. E.
 22.00 Draw, 10 lks. wide, course N. W., base of 200 ft.
 descent, thence along gradual N. slope.
 30.25 Draw, 8 lks. wide, course N. 20°W.
 35.30 Draw 10 lks. wide, course N. W.
 37.50 Point of rock on N. end of low spur from S.
 43.75 Draw, 5 lks. wide, course N.
 50.20 Wire fence, bears N. 20°E. and S. 20°W.
 54.00 Draw 6 lks. wide, course N.
 Begin ascent, bears N. and S.
 60.00 Top of 80 ft. ascent on spur, bears N.W. and S. E.
 79.65 The 1/4 Sec. cor. between Secs. 9 and 10, which is
 a post 3 ins. square, 28 ins. long, set in mound
 of stone, marked 1/4 S. on W. face as called for
 in notes of General Land Office. (I leave corner
 as found well preserved), from which
 An original bearing tree, an oak 10 ins. diam
 bears S. 79°30' E., 163 lks. dist., as called
 for in notes of General Land Office. I
 remark on new growth. RES 1/4 S. 10 B.T.
 I mark a new tree, an oak, 8 ins. diam.,
 bears S. 39 W.; 95 lks. dist., I mark 1/4
 S. 9, B. T.
 Old S. W. bearing tree in evidence, but is
 partially dead.
 Land, hilly and broken.
 Soil, rocky 4th rate.
 Timber, live oak, juniper and pinion.

279

CHIRICAHUA FOREST RESERVE BOUNDARY.

T. 17 S. R. 29 E.

Chains. From 1/4 Sec. cor. between Secs. 9 and 10, I run South on random line between secs. 9 and 10.
 40.00 Set stake for temporary corner secs. 9, 10, 15 and 16. It is very evident from a comparison of the topography of the country with the notes of the General Land Office, that this corner was never set and that no survey exists south of here in this township, nor on the south bdy., in fact all surveys subdivisional of Secs. 16 to 21, inclusive, and secs. 28 to 33, inclusive, and the south boundary of the township, secs. 31 and 32 and 33, are fraudulent, and never have been surveyed. There is, therefore, no way of prorating measurement by tying to anything to the south. I will therefore, let the reported bearing of the line between Secs. 9 and 16 govern my distance on this line.
 Hence proceed to Cor. of Secs. 8, 9, 16 and 17.
 April 24, 1905.

April 25, 1905.
 At cor. of secs. 8, 9, 16 and 17, which is a stake in mound of stone, marked and witnessed as described in notes of General Land Office.
 I set off 31°57'30" on latitude arc and 13°06'45"N. on declination arc, and at 7 a.m., April 25, 1905, establish meridian with solar.
 Thence I run
 S. 89 52' E. (reported bearing in notes of General Land Office) on random line between Secs. 9 and 16.
 40.00 Set stake for temporary 1/4 Sec. cor. No trace of old corner.
 80.28 Intersect N. and S. Sec. line, 19 lks. N. of stake, set by me for temporary cor. of Secs. 9, 10, 15 and 16, at which intersection I establish corner of Secs. as described later.
 Thence, returning to the corner of Secs. 8, 9, 16 and 17, from which I run
 S. 89 52' E. on true line between secs. 9 and 16 along south slope of bald hill.
 6.00 Begin descent,
 Enter timber, bears N. W. & S. E.
 17.00 Base of 150 ft. descent.
 Enter bottom land, bears N. W. & S. E.
 21.80 Wire fence bears N 20° E. and S. 20° W.
 26.00 Shaw's Ranch house, bears N. 7 chs. dist.
 30.00 Shaw's Barn bears N. 8 chs. dist.
 38.00 Old road bears N. W. and S. E.
 39.80 Irrigation ditch, 3 lks. wide, course N. 60° W.
 40.14 Set lime stone 18x12x8 ins., 12 ins. in ground for 1/4 Sec. cor., marked 1/4 on N. face, from which
 A live oak, 6 ins. diam., bears S. 0°10' E. 52 lks. dist, marked 1/4 S. 16 B.T.
 A live oak, 12 ins. diam., bears N. 76°15' W., 14 lks. dist., marked 1/4 S. 9 B. T.
 And build mound of stone 2 x 1 1/2 ft. 2 ft. north of corner.
 43.00 Old road bears N. W. and S. E.
 46.50 Shaw's Creek 40 lks. wide, course N. W.
 50.00 Leave bottom land, begin ascent, bears N.W. and S.E.
 60.00 Top of 150 ft. ascent, bears N. W. and S. 60° E.
 Thence along S. slope of spur.
 80.28 At intersection with line, I run South from the 1/4 Sec. Cor. between sections 9 and 10.
 Set porphyry lime stone 18x8x8 ins., 4 ins. in ground to rock and build mound of stone 3x1 ft. around same for cor. of sections 9, 10, 15 and 16, marked with 4 notches on S. and 3 on E. faces, from which

288

CHERICAHUA FOREST RESERVE BOUNDARY.

T. 17 S. R. 29 E.

Chains.

A juniper, 12 ins. diam., bears S. 59°E., 49
lks. dist., marked RES. T. 17 S. R. 29 E. S 15
B. T

A live oak, 10 ins. diam., bears S. 64°W.,
70 lks. dist., marked T. 17 S. R. 29 E.
S 16 B. 1.

A live oak, 14 ins. diam., bears N. 29°45' W.
210 lks. dist., marked T 17 S. R 29 E S 9 B.T.

No northeast tree available.

Land, rolling and hilly.

Soil, rocky and sandy loam, 3rd and 4th rate.

Timber, live oak, pinion and juniper.

Notes.-

This method of reestablishing corner of secs.
9, 10, 15 and 16, by letting reported
courses control my measurements is adopted
as the best means of conforming to a report-
ed survey that never existed and at the
same time leaving new survey lines, which
are supposedly retracement lines, within
limits.

If Cor. of secs. 9, 10, 15 and 16 were set
at 40.00 chs. south (the only other re-
course), it would throw the bearing of line
between secs. 9 and 16, also line through
center of sec. 16 out of limits and as both
are supposedly retracement lines, closing
corners could not be set.

April 25, 1905.

April 24, 1905.

From the 1/4 Sec. corner between secs. 9 and 10,
I run
South on true line between secs. 9 and 10 over hilly
rocky land, scattered timber and brush.
12 Set Iron U. S. Forest Reserve Boundary Post No. 66
12 ins. in ground to rock and build mound of stone
6 ft. base, 3 ft. high around post for boundary
marking and witness corner, marked:
W. C. on top of cap.
1/4 S. 9 on W. face.
1/4 S. 10 on E. face.
RESERVE on S. E. quadrant.
3.25 Wash, 5 lks. wide, course W.
7.35 Draw, 10 lks. wide, course N. W.
Begin ascent, bears N. 60°W. and S. 60°E.
21.10 Draw 8 lks. wide, course N. W., heads 2 chs. E. of
line.
35.00 Top of 200 ft. ascent, on spur, bears E. and W.
39.31 The Cor. of Secs. 9, 10, 15 and 16 as established
by me.

April 24, 1905.

April 25, 1905.

From the cor. of secs. 9, 10, 15 and 16, I run
South on true line, between secs. 15 and 16.
Through scattered timber and brush, descending
over broken surface.
9.50 Base of 130 ft. descent, bears N. 80°W. and S. 80°E.
Enter bottom land.
13.40 Shaw's Creek, 50 lks. wide, 3 ins. deep, course
N. 80°W.
15.70 Old road, bears N. 80°W. and S. 80°E.
15.84 Set oak post 3 1/2 ft. long, 5 ins. square, 18 ins.
in ground and build mound of stone 3 ft. base,
1 1/2 ft. high around same, for boundary marking
by roadside, marked:
RES LINE on E. face.

283

CHIRICAHUA FOREST RESERVE BOUNDARY.

T. 17 S. R. 29 E.

- Chains.
- 16.70 Irrigation ditch, 10 lks. wide, 12 ins. deep, course N. 80°W.
- 19.80 Another (older) bed of same road, bears N. 80°W. and S. 80°E.
- 20.50 Leave bottom land.
Begin rocky ascent, bears N. 80°W. and S. 80°E.
- 27.50 Balanced rock, 25 ft. high, bears W. 4 chs. dist.
- 29.25 Top of 160 ft. ascent on rocky spur, bears E. and W.
Begin abrupt broken descent, bears N. 80°W. and S. 80°E.
- 34.00 Ravine, 10 lks. wide, course N. 80°W., base of 100 ft. descent.
Begin abrupt rocky ascent.
- 40.00 The true point for 1/4 sec. corner falls on ledge 12 ft. wide E. and W., 10 ft. high and 200 ft. long, at which point I mark cross () for 1/4 sec. corner and 1/4 W. of cross from which
A live oak, 8 ins. diam., bears S. 55°E., 148 lks. dist, marked RES 1/4 S. 15 B. T.
A pine, 8 ins. diam, bears S. 35°W., 38 lks. dist, marked, RES 1/4 S. 16 B. T.
On steep N. slope, 150 ft. above ravine.
Land, mountainous and broken.
Soil, rocky and stony 4th rate.
Timber, oak, pinion and juniper.

At the 1/4 Sec. cor. between Secs. 15 and 16, I set off 13°10' N. on declination arc and at 2^m1^s before noon l.m.t., April 25, 1905, observe sun on meridian and obtain reading of 31°57' on latitude arc.

-
- From cor. of secs. 8, 9, 16 and 17, I run South on true line between secs. 16 and 17 descending bald hill.
- 14.00 Base of 200 ft. descent and enter timber and brush bearing E. and W.
- 15.60 Creek, 50 lks. wide, water 10 lks. wide and 3 ins. deep, course N. 80°W.
- 22.10 Leave bottom land.
Begin rocky, broken ascent, bears E. and W.
- 24.00 On W. point of rocky spur.
- 29.00 Rocky gulch, 10 lks. wide, 40 ft. deep, course N.W.
- 36.00 Top of 250 ft. ascent, bears E. and W.
- 40.00 Set lime stone 18x12x8 ins., 12 ins. in ground, for 1/4 sec. corner marked 1/4 on W. face, from which
A live oak, 4 ins. diam, bears S. 47°30' E., 49 lks. dist., marked, RES 1/4 S. 16 B. T.
A juniper, 6 ins. diam., bears N. 76°W., 237 lks. dist, marked, 1/4 S. 17 B.T.
Land, mountainous and broken.
Soil, rocky and stony 3rd and 4th rate.
Timber, live oak, pine and juniper.

This 1/4 Cor. was never set and no survey exists to the south as is fraudulently reported to the General Land Office.

- From the 1/4 Sec. cor. between Secs. 15 and 16, I run N. 89°52' W. on random line, through center of Sec. 16.
- 50.30 Intersect the 1/4 Sec. cor. between secs. 16 and 17 Thence returning to the 1/4 Sec. cor. between Secs. 15 and 16, from which I run N. 89°52' W. on true line through center of Sec. 16. Through scattered timber and brush, broken descent.
- .42 Set Iron, U. S. Forest Reserve Boundary Post No. 67, 12 ins. in ground to rock and build mound of stone

251

CHIRICAHUA FOREST RESERVE BOUNDARY.

T. 17 S. R. 29 E.

- Chains. 6 ft. base, 2 1/2 ft. high around same, for boundary marking and witness corner, marked:
 W. C. on top of cap.
 1/4 S. 16 on W. side.
 1/4 S. 15 on E. side.
 RESERVE in N.E., S. E. and S. W. quadrants.
- 11.00 Base of 200 ft. descent.
 Enter bottom land, bears N. and S.
- 12.05 Old wood road, bears N. 20°W. and S. 20°E.
- 14.60 Creek, 30 lks. wide, water 10 lks. wide, 6 ins. deep course N. 20°W. for 15 chs., then N. 30°W. and is separated from Shaw's creek by low ridge, and does not empty into Shaw's Creek as shown in Land Office map.
- 16.00 Leave bottom, begin rocky ascent, bears N. 20°W. and S. 20°E.
- 23.00 Top of 200 ft. ascent, bears N. and S., thence along N. slope.
- 29.00 Draw, 3 lks. wide, course N, heads 4 chs. S. of line.
- 34.00 Begin descent, bears N. and S.
- 38.50 Draw 10 lks. wide, course N. 10°W.
 Base of 100 ft. descent.
- 40.14 Set oak post, 3 1/2 ft. long, 6 ins square, 1 ft. in ground and build mound of stone, 4 ft. base, 2 1/2 ft. high, around same, marked,
 RES LINE on S. face.
- 41.00 Wash, 5 lks. wide, course N. 20°E.
 Begin rocky, broken ascent, bears N. and S.
- 46.00 Top of 100 ft. ascent on N. slope of spur.
- 51.20 Draw, 5 lks. wide, course N., heads 3 chs. S. of line.
- 60.40 Head of wash, course N. 20°E.
 Begin ascent.
- 66.50 Top of 100 ft. ascent, bears N. and S. E.
 Thence along rolling, rocky top of ridge, scattered timber and cluster brush.
- 80.20 Set Iron, U. S. Forest Reserve Boundary Post No. 68, 12 ins. in ground to rock and build mound of stone 6 ft. base, 2 1/2 ft. high around same for boundary marking and witness corner, marked,
 W. C. on top of cap.
 1/4 S. 17 on W. face.
 1/4 S. 16 on E. face.
 RESERVE on S. E. and S. W. quadrants.
- 80.30 The 1/4 Sec. cor. between secs. 16 and 17.
 Land, mountainous and broken.
 Soil, rocky and stony 4th rate.
 Timber, live oak, pinion and juniper.

April 25, 1905.

April 26, 1905.

At the Cor. of Secs. 7, 8, 17 and 18, which is an oak post 3 ft. long, 4 ins. square, set in mound of stone and marked and witnessed by a S. E. bearing tree as called for in notes of General Land Office.

I set off 31°57' 30" on latitude arc and 13°20' N. on declination arc and at 7 a.m., April 26, 1905, determine meridian with solar.

Thence I run

South on true line between Secs. 17 and 18.

Over open bottom land.

- .20 Wash, 10 lks. wide, course S. 30°W.
- .80 Track of old road, bears E. and W.
- 2.80 Track of old road bears E. and W.
- 5.00 Enter timber, bears E. and W.
- 10.70 Dry bed of creek, 5 lks. wide, 4 ft. banks, course W.
 Water sinks about 10 chs. E. of line.
- 19.70 Leave bottom land.
 Begin ascent, rocky broken ridge, bears E. and W.
- 36.00 Top of 300 ft. ascent, bears E. and W.

287

CHIRICAHUA FOREST RESERVE BOUNDARY.

T. 17 S. R. 29 E.

Chains.
36.70
40.00

Begin descent from N. E. end of spur.
Set porphyry Lime Stone 22x12x6 ins., 6 ins. in ground to rock, and build mound of stone 2 1/2 x 1 ft. around same, for 1/4 sec. Cor., marked 1/4 on W. face, from which
A live oak, 8 ins. diam., bears S. 55°45' W., 131 lks. dist., marked RES 1/4 S. 18 B. T.
No other bearing tree available.
Land, mountainous and rolling.
Soil, gravelly, sandy loam and rocky 3rd and 4th rate.
Timber, live oak, pine and juniper.

-
- From the 1/4 Sec. Cor., between Secs. 16 and 17, I run
 - West on random line, through center of Sec. 17.
 - 79.60 Intersect W. boundary of Sec. 23 lks. S. of 1/4 Sec. corner, between secs. 17 and 18.
Thence returning to the 1/4 sec. corner, between Secs. 16 and 17, from which I run
N. 89°50' W., on true line, through center of Sec. 17
Over rolling top of E. and W. ridge.
Scattered timber and cluster brush.
 - 23.00 Begin descent, bears N. and S. 30°E.
 - 36.50 Draw, 15 lks. wide, course N. 30°W.
Base of 200 ft. descent.
Begin rocky, broken ascent.
 - 39.80 Set pine post 3 1/2 ft. long, 4 ins. square, 10 ins. in ground and build mound of stone, 3 ft. base, 2 ft. high around same for boundary marking, marked RESERVE on S. side.
 - 41.00 Top of 100 ft. ascent on N. point, rocky spur, thence along N. slope.
 - 47.30 Begin Rocky descent, bears N. and S.
 - 53.90 Ravine 20 lks. wide, course N. 20°W., base of 100 ft. descent.
Begin broken ascent.
 - 63.00 Top of 150 ft. ascent on N. slope of spur.
 - 64.00 Begin broken rocky descent, bears N. and S.
 - 69.00 Ravine, 15 lks. wide, course N.
Base of 150 ft. descent.
Begin steep stony ascent, bears N. and S. 20°W.
 - 79.80 The 1/4 Sec. Cor. between secs. 17 and 18.
Land, hilly and broken.
Soil, rocky 4th rate.
Timber, live oak, pine and juniper.

At the 1/4 Sec. corner, between Secs. 17 and 18
I set off 13°29'30" N. on declination arc and at 2^m12^s before noon l.m.t., April 26, 1905, observe sun on meridian and obtain reading of 31°57' on latitude arc.

- From 1/4 Sec. corner, between Secs. 17 and 18, I run
- West on random line, through center of Sec. 18.
- 78.95 Intersect west boundary of Tp. 18 lks. N. of 1/4 Sec. Cor. between secs. 18 and 13.
Thence returning to the 1/4 sec. corner, between secs. 17 and 18, from which I run
S. 89°52' W. on true line, through center of Sec. 18
ascending scattered timber.
- .11 Set Iron, U. S. Forest Reserve Boundary, Post No. 39
18 ins. to rock and build mound of stone 6 ft. base
2 ft. high around same, for boundary marking and witness corner, marked,
W. C. on top of cap.
1/4 S. 13 on W. side.

284

CHIRICAHUA FOREST RESERVE BOUNDARY.

T. 17 S. R. 29 E.

- Chains. 1/4 S. 17 on E. side.
- RESERVE in S. E. and S. W. quadrants.
- 6.00 Top of ridge bears N. E. and S. W., 50 ft. above 1/4 Sec. corner.
- 9.00 Begin descent, bears N. E. and S. W.
- 25.00 Draw, 8 lks. wide, course S. 60°W. Base of 150 ft. descent. Thence gradual ascent along S. slope.
- 40.22 (Reported distance of mile is 78.51 General Land Office. My distance 78.95.) Set oak post 3 1/2 ft. long, 4 ins. square, 10 ins. in ground and build mound of stone 3ft. base 2 1/2 ft. high around same for boundary marking, marked RESERVE on S. face.
- 50.00 Top of 50 ft. ascent on ridge, bears N. 60°E. and S 60°W.
- Thence gradual descent, bears N. and S.
- 75.50 Draw, 10 lks. wide, course N 60°W. Base of 200 ft. descent. Leave scattered timber. Enter open rocky prairie.
- 78.82 Set Iron, U. S. Forest Reserve Boundary, Post No. 70, 28 ins. in ground and build mound of stone, 4 ft. base 1 1/2 ft. high around same for boundary marking and witness corner, and marked, W. C. on top of cap. 1/4 S. 13 on W. face. 1/4 S. 18 on E. face. RESERVE on S. E. quadrant.
- 78.95 The 1/4 cor. between secs. 13 and 18, which is a stake, 2 ft. long 2 ins. square, marked 1/4 S. on W. face, and set in mound of stone; stake being decayed, I replace with a Lime Stone 22x12x10 ins. 12 ins. in ground for 1/4 sec. corner, marked 1/4 on W. face, from which.
 - A live oak, 6 ins. diam, bears N. 36°45' E. 161 lks. dist., marked 1/4 S. 18 B. T.
 - A live oak, 10 ins. diam., bears N. 40°45' W. 226 lks. dist., marked 1/4 S. 13 B. T.
 Land, hilly and broken. Soil, rocky and 4th rate. Timber, live oak, pine and juniper.

T. 17 S. Rgs. 28 and 29 E.

- From the 1/4 Sec. Cor. between secs. 13 and 18, I run South on random line between secs. 13 and 18.
- 40.36 Intersect E. and W. Sec. line 7 lks. W. of cor. to Secs. 13, 18, 19 and 24. Thence returning to 1/4 Cor., between secs. 13 and 18, from which I run S. 0°6' E. on true line between Secs. 13 and 18, gradually ascending rocky prairie land, dotted with occasional oak tree.
- 14.00 Top of 100 ft. ascent on E. slope of rocky ridge. Thence along broken E. slope.
- 20.00 East end of vertical cliff, 50 ft. high.
- 25.00 Begin descent abruptly, bears N.E. and S. W. Base of 150 ft. abrupt descent, thence rolling rocky prairie.
- 33.60 Draw, 5 lks. wide, course S. W.
- 40.23 Set Iron, U. S. Forest Reserve Boundary, Post No. 71, 12 ins. in ground to rock and build mound of stone 6 ft. base, 2 1/2 ft. high around same for boundary marking and witness corner, marked, W. C. on top of cap. T. 17 S. R. 18 in N. E. quadrant. R. 29 E. S. 19 in S. E. quadrant

CHIRICAHUA FOREST RESERVE BOUNDARY.

T. 17 S. Rgs 28 and 29 E.

Chains.

- S 24 in S. W. quadrant.
 E 28 E. S13 in N. W. quadrant
 RESERVE on N. E. and S. E. quadrants, with
 3 notches on N. and S. sides.
- 40.36 The corner of Secs. 13, 18, 19 and 24, which is
 A porphyry Lime Stone 8x6x6 ins. above ground, cor-
 rectly marked with 3 notches on N. and S. faces,
 from which
 An old bearing tree, a 3-prong oak, 12 ins.
 diam., bears S. 21°30' E., 75 lks. dist.,
 old markings on W. prong, I mark on E.
 prong, RES T 17 S, R 29 E, S19, E. T.
 An oak (original) 14 ins. diam., bears S. 15°
 15' W., 188 lks. dist., old markings cor-
 rect and left as found.
 No other trees available.
 Old mound of stone 2 x 1 1/2 ft. 3 ft. W. of Cor., I
 leave as found.
 Land, rolling and hilly.
 Soil, rocky and stony 4th rate.
 Timber, occasional live oak.

April 26, 1905.

April 27, 1905.

- At Cor. of Secs. 13, 18, 19 and 24 I set off
 31°56'15" on latitude arc and 13°45'15" N. on dec-
 lination arc, and at 7 a. m., April 27, 1905, de-
 termine meridian with solar.
- Thence I run
 South on random line between Secs. 19 and 24;
 39.65 Intersect E. and W. 1/4 section line 7 lks. W. of
 1/4 sec. cor.
 Thence setting over 1/4 cor., I run
 South on random.
 39.82 Intersect ~~at~~ the corner of secs. 19, 24, 25 and 30,
 Thence returning to cor. of secs. 13, 18, 19 and 24,
 from which I run
 S. 0°6' E. on true line, between secs. 19 and 24,
 Over rolling rocky prairie land, dotted with an
 occasional oak.
 3.00 Draw, 5 lks. wide, course W.
 22.50 Draw 15 lks. wide, course N. W.
 Begin rocky ascent.
 Enter scattered timber, bears E. and W.
 30.50 Top of 100 ft. ascent on spur, bears N. 70°W. and
 S. 70°E.
 Begin descent.
 37.60 Branch, 50 lks. wide, water 10 lks. wide, 3 ins.
 deep, course W. (Dry in summer)
 Base of 100 ft. descent, begin ascent.
 39.65 At the 1/4 sec. cor. which is a Lime Stone 8x5x5 ins.
 above ground, correctly marked 1/4 on W. face,
 from which
 A new live oak, 8 ins. diam., bears N. 31°15' E.
 111 lks. dist., marked RES. 1/4 S. 19 B. T.
 A new live oak, 10 ins. diam., bears N. 63°45' W.
 137 lks. dist., marked 1/4 S. 24 B. T.
 I build mound of stone 2 1/2 x 1 1/2 ft. 2 ft. W. of
 corner.
 Thence from this 1/4 sec. corner, I run
 South on true line.
 9.00 Top of 100 ft. ascent on gradual W. slope of spur.
 from E., thence over rolling rocky foot-hills.
 17.60 Draw, 10 lks. wide, course N. 60°W.
 32.00 Head of draw, 1 ch. W. of line, course N. W.
 39.71 Set Iron, U. S. Forest Reserve Boundary, Post No. 72,
 12 ins. in ground, to rock, and build mound of
 stone, 3 1/2 ft. base, 2 1/2 ft. high, around
 same for boundary marking and witness corner,
 marked:

243

CHIRICAHUA FOREST RESERVE BOUNDARY.

T. 17 S. Rgs. 28 and 29 E.

Chains.

W. C. on top of cap.
 T 17 S S 19 in N. E. quadrant.
 R 29 E S 30 in S. E. quadrant.
 S 25 in S. W. quadrant
 R 28 E S 24 in N. W. quadrant
 RESERVE in N. E. and S. E. quadrants., with
 4 notches on N. and 2 on S. faces.

39.82 The corner of Secs. 19, 24, 25 and 30, which is a
 juniper post, 3 ft. long 4 ins. square above ground,
 set in mound of stone 3x2 ft., and marked as
 called for in notes of General Land Office.
 Old N. E. and S. W. bearing trees are dead, old
 N. W. partially dead, no evidence of old S. E.
 tree. I therefore take new trees from this cor.
 A juniper, 5 ins. diam, bears N. 49°15' E.,
 191 lks., dist., marked RES. T 17 S R29 E
 S 19 B. T.
 A live oak, 12 ins. diam., bears S. 23°38' E.
 237 lks dist., marked RES. T 17 S 29 E S 30
 B. T.
 A live oak, 14 ins. diam, bears S. 12°45' W.
 271 lks. dist., marked T. 17 S R. 28 E.
 S 25 B. T.
 A live oak, 6 ins. diam., bears N. 16° W.
 53 lks. dist., marked T. 17 S. R. 28 E.
 S. 24 B. T.

Land, hilly and broken.
 Soil, rocky and stony 4th rate.
 Timber, scattered live oak and juniper.

At the Cor. of Secs. 19, 24, 25 and 30, I set off
 18°48'30" N. on declination arc and 2^m22^s before
 noon l.m.t., April 27, 1905, observe sun on me-
 ridian and obtain a reading of 31°55'15" on
 latitude arc.

Thence at 1 p.m., I run
 South on random line between secs. 25 and 30.
 40.00 Set stake for temporary 1/4 sec. corner.
 No trace of old corner.

80.00 Set stake for temporary cor. of secs. 25, 30, 31
 and 36. No trace of old corner.

180.00 Thence continue south between 31 and 36.
 Set stake for temporary corner of secs. 17 and 18 S.
 Rgs. 28 and 29 E. No trace of old corner.

200.00 Thence continue south.
 Set stake for temporary 1/4 cor. No trace of old
 corner.

240.21 Intersect N. and W. section line, 17 lks. E. of
 corner of secs. 1, 6, 7 and 12 of T. 13 S. Rgs.
 28 and 29 E.

Note.- This line was never run as reported by
 General Land Office, but was carried north on
 section line 1 mile west of here in the flat
 country, and then back east to cor. of secs.
 19, 24, 25 and 30, to avoid the rough country
 on range line.

Thence returning to corner of sections 19, 24,
 25 and 30 of T. 17 S. Rgs. 28 and 29 East, from
 which I run
 South 0°2' W. on true line, between sections 25
 and 30.

Over rolling rocky land, through scattered timber.
 16.80 Draw 15 lks. wide, course N. W.
 29.00 Same draw, course N. 10° W.
 39.60 Same draw, course N. 20° W.
 Begin steep rocky ascent.

40.06 $\frac{1}{2}$ Mark cross () on porphyry ledge 3x3x1 ft., above
 ground, 1/4 W. of cross for 1/4 Sec. Cor from which

295

CHERICAHUA FOREST RESERVE BOUNDARY.

T. 17 S. Rgs. 28 and 29 E.

Chains.

- A juniper, 6 ins. diam., bears S. 72°45' E.,
88 lks. dist., marked RES. 1/4 S. 30 B. T.
- A juniper, 5 ins. diam., bears S. 37°30' W.,
80 lks. dist., marked 1/4 S. 25 B. T.
- 55.00 Top of abrupt rocky ascent, continue gradual ascent
bears N. W. and S. E.
- 62.50 Head of ravine, in rocky craigs, course W.
- 70.07 Set Iron, U. S. Forest Reserve Boundary Post No. 73,
12 ins. in ground, to rock, and build mound of
stone 5 1/2 ft. base 2 1/2 ft. high, around
same for boundary marking, marked,
RESERVE in N. E. and S. E. quadrants, from
which
- A pine, 10 ins. diam., bears N. 69°45' E.,
168 lks. dist., marked RES. B. P. No. 73, B.T.
- A juniper, 10 ins. diam., bears N. 46°0' W., 83
lks. dist., marked B. P. No. 73, B. T.
- Top of ridge bears E. and W., 550 ft. above 1/4
section corner.
- 71.00 Begin precipitous descent, bears E. and W.
- 80.07 Set granite Stone 18x8x6 ins. 8 ins. in ground for
~~the~~ corner of sections 25, 30, 31 and 36, marked
with 5 notches on N. and 1 on S. faces from which
A live oak, 14 ins. diam., bears N. 64°30' E.,
182 lks. dist., marked RES. T 17 S R29 E S 30,
B. T.
- No other trees available, build mound of stone 2x1ft.
around corner rock and mound of stone, 3 x 2 ft.,
west of corner, on steep S. slope, 475 ft. below
summit.
- Land, mountainous and broken.
Soil, rocky. 4th rate.
Timber, scattered live oak, juniper and pine.

-
- From corner of sections 25, 30, 31 and 36, I run
South 0°2' W. on true line between sections 31 and 36.
- 4.20 Draw, 15 lks wide, course W.
Base of descent 100 ft., below Sec. Cor.
Begin steep ascent.
- 12.50 Wash 5 lks. wide, course N. W.
- 22.64 90ft. vertical cliff, bears N. 70°E. and S. 70°W.
- 24.00 Top of ascent on W. point of cliff, 400 ft. above
draw.
- 24.50 Begin precipitous descent, bears N. 80°W. and S. 60°E.
- 29.10 Ravine, course W., base of 200-ft. descent.
Begin rocky ascent.
- 34.50 Top of 150-ft. ascent on W. point of cliff from E.
- 36.00 Begin precipitous descent, bears N.W. and S.E.
- 40.08 Set, granite stone 18x10x8, 8 ins. in ground and
build mound of stone 2 1/2 x 1 ft. around same for
1/4 Sec. Cor., marked 1/4 on W. face, from which
A live oak, 8 ins. diam, bears S. 39°15' E.,
251 lks. dist., marked, RES. 1/4 S. 31 B. T.
- No other trees available. Pits impracticable, and
I build mound of stone 2 1/2 x 2 ft., 3 ft. W. of
corner.
- 45.60 Descent of 30 ft. vertical rim of rock, bears E. and W.
- 58.00 Dry Branch 50 lks. wide, course W., base of 450 ft.
descent.
- 60.00 Begin steep ascent, bears E. and W.
- 67.00 Ascent becomes abrupt over very broken rock ledges.
- 74.00 Top of 400 ft. ascent, bears E. and W.
- 76.50 Begin rocky, broken descent, bears E. and W.
- 80.07 Set porphyry stone 18x12x10 ins., 6 ins. in
ground, to rock and build mound of stone 2 1/2 x
1 ft. around corner rock, for corner of Tps. 17
and 18 S. Rgs. 28 and 29 E., marked with 6 notches
on N., S., E. and W. faces, from which
A pine, 8 ins. diam, bears N. 74°15' E., 94 lks

297

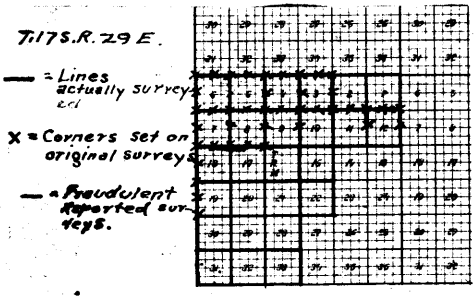
CHIRICAHUA FOREST RESERVE BOUNDARY.

T. 17 S. Rgs. 28 & 29 E.

Chains.

dist., marked RES. T. 17 S. R. 29 E. S 31 B.T.
 A pine, 10 ins. diam., bears N. 65°W., 228 lks.
 dist., marked T. 17 S R 28 E. S 36, B.T.
 No other trees available, I build mound of stone,
 3 ft. base, 2 ft. high, 3 ft. south of corner.
 Land, mountainous and precipitous.
 Soil, rocky and 4th rate.
 Timber, scattering live oak, juniper and pine.

Diagram below shows condition of actual and fraudulent surveys as reported by notes of General Land Office.



April 27, 1905.

April 28th, cloudy and rainy, no work.

April 29, 1905.

At corner of Tps. 17 and 18 S. Rgs. 28 and 29 E.,
 I set off 31°53'45" on latitude arc, and 14°23'15"
 north on declination arc, and at 7 a.m., April
 29, 1905, establish meridian with solar.

Thence I run
 South 0 2' W. on true line between Secs. 1 and 6.
 (Random on page 83.)

18.25 Broken rocky descent, scattering timber.
 Base of 45 ft. descent.
 Enter bottom land, bears N. 70°W. and S. 70°E.
 Young's ranch house bears about W., about 25 chs.
 dist.

19.10 Road bears N. 70°W. and S. 70°E.
 19.20 Set Iron, U. S. Forest Reserve Boundary, Post No. 74,
 28 ins. in ground with mound of stone 3 1/2 ft.
 base, 1 1/4 ft. high around same for boundary
 marking, by road side, marked:
 RESERVE in N. E. and S. E. quadrants,
 from which

A live oak, 8 ins. diam., bears S. 65°15' E.
 98 lks. dist., marked RES., B.P. No. 74 B.T.
 A live oak, 12 ins. diam., bears N. 80°W., 76
 lks. dist., marked B.P., No. 74, B.T.

20.50 Creek 60 lks. wide, course N. 70°W., water 40 lks.
 wide and 3 ins. deep.
 At line crossing on N. bank an irrigation ditch,
 4 lks. wide, 6 ins. deep is taken out, course
 N. 65°W.

27.25 Leave bottom begin ascent, bears N.W. and S. E.
 40.03 1/2 Set porphyry Lime Stone 18x14x6 ins., 12 ins. in
 ground for 1/4 sec. cor. marked 1 4 on W. face
 from which

A live oak, 8 ins. diam., bears S. 38°E.,
 162 lks. dist., marked RES 1/4 S. 6 B.T.
 A live oak, 14 ins. diam., bears S. 63°15' W.
 112 lks. dist., marked, 1/4 S 1, B. 1.

2499

81

CHIRICAHUA FOREST RESERVE BOUNDARY.

T. 18 S. Rgs. 28 & 29 E.

Chains.
 50.50 Top of 400 ft. ascent, bare rocky ridge, bears N.W. and S. E.
 Begin steep, rocky descent and leave scattered timber.
 Enter rocky prairie, bears N.W. and S. E., dotted with mescal and soap weed.
 62.60 Side hill wash, 5 lks. wide, course S. 60°W., base of 250-ft. descent.
 Thence along W. slope.
 70.00 Begin descent, bears E. and W.
 75.95 Draw 10 lks. wide, course S. 80°W.
 Base of 100-ft. descent.
 Begin ascent, leave prairie.
 79.99 Enter scattered timber, bears N. 70°E. and S. 70°W.
 Set Iron, U. S. Forest Reserve Boundary, Post No. 75, 6 ins. in ground to rock and build mound of stone, 6 ft. base, 3 ft. high around same, for boundary marking and witness corner, marked:
 W. C. on top of cap.
 T 18 S S 6 in N. E. quadrant.
 R 29 E S 7 in S. E. quadrant.
 S 12 in S. W. quadrant.
 R 28 E S 1 in N. W. quadrant.
 RESERVE in N. E. and S. E. quadrants.
 80.07 At corner of Secs. 1, 6, 7 and 12, which is a Porphyry stone 12x9x10 ins. above ground, correctly marked with 1 notch on N. and 5 on S. faces with mound of stone 3x2 ft., W. of corner.
 Old N. E. and N. W. bearing trees in evidence, but dead.
 From the corner
 A new live oak, 8 ins. diam, bears N. 40°30' E. 315 lks. dist., marked RES, T 18 S. R 29 E. S 6, B. T.
 A live oak (original), 18 ins. diam., bears S. 78 30' W., 31 lks. dist., I remark on new growth, T 18 S R 28 E, S 12, B. T.
 A new live oak, 8 ins. diam, bears N. 43°W. 302 lks. dist., marked T. 18 S R. 28 E. S. 1 B. T.
 No S. E. tree available.
 Land, mountainous and broken.
 Soil, rocky 4th rate.
 Timber, scattered live oak, pine and juniper.
 April 29, 1905.

General Description:

T. 18 S R. 29 E.

Central and western portion of Tp. is gently rolling, partially arid prairie, too rocky and gravelly in most places and too dry for cultivation; affords good grass for stock grazing. The eastern portion lying within the reserve is mountainous and broken foot-hills of Chiricahua Range. Some settlement, orchards, etc., along Bonita Creek in Secs. 26 and 27 (Stafford Erickson), which utilize about all the water it furnishes. There is an abandoned mine and many prospect holes in Sec. 1. Mine produces low grade gold bearing quartz. Timber on foot-hills scattering small live oak, pine and juniper. Many varieties of cactus, mescal, etc.

General Description.

T 17 S. R. 29 E.

The N. W. portion of Tp. is gently rolling rock prairie, affording grass for stock grazing. Rhody Biggs ranch in Sec. 3 on Piney Creek and Shaw's ranch in Sec. 9 on Shaw's Creek constitute the.

CHIRICAHUA FOREST RESERVE BOUNDARY.

T. 18 S. Rgs. 28 and 29

Chains. settlement.
That portion of the township lying within the reserve is broken, mountainous, hilly covered with scattered live oak, juniper and pine timber and affords some grasses.

April 30, 1905.

At Cor. of Secs. 1, 6, 7 and 12, of T. 18 S. Rgs. 28 and 29 E., previously described, I set off 31°53' on the latitude arc, and 14°41' 45" N. on the declination arc and at 7 a.m., April 30th, establish meridian with solar.

Thence I run

South on random line, between secs. 7 and 12.

39.67 Intersect E. and W. 1/4 sec. line, 24 lks. east of 1/4 sec. corner.

Thence returning to corner of Secs. 1, 6, 7 and 12 from which I run

South 0°21' W., over rolling, rocky prairie foot-hills, dotted with occasional live oak, descending.

5.15 Draw, 10 lks. wide, course S. 70° W., base of 90 ft. descent.

Begin ascent.

13.00 Top of 70 ft. ascent on spur, bears N. 80° E. and S. 30° W.

14.00 Begin descent, bears N. 80° E. and S. 30° W.

20.20 Draw, 10 lks. wide, course S. 60° W.

Base of 100 ft. descent.

26.75 Draw, 10 lks., wide, course W.

34.00 Top of low spur on W. slope.

39.67 The 1/4 Sec. Cor. between secs. 7 and 12, which is a Porphyry stone 14x8x6 ins. set in mound of stone, and correctly marked 1/4 on W. face, I build mound of stone, 3x2 ft., 3 ft. W. of cor. No bearing trees available, pits impracticable. Cor. on S. W. slope of rocky spur about 5 chs. N. and 5 chs. E. of flat at foot of spur.

Land, hilly and rolling.

Soil, rocky and stony 4th rate.

Timber, practically none, occasional live oak.

From the 1/4 Sec. cor. between Secs. 7 and 12, I run East on random line through center of sec. 7.

79.80 Intersect east boundary of section 23 lks. N. of 1/4 Sec. Cor. between sections 7 and 8, as established by me, as described, following this mile.

Thence returning to the 1/4 sec. cor., between

Secs. 7 and 12, from which I run South 89° 50' E. on true line through center of Sec. 7.

Over rolling, rocky prairie foot-hills

.10 Set Iron, U. S. Forest Reserve Boundary Post No. 76, 10 ins. in ground to rock, and build mound of stone, 6 ft. base, 3 ft. high around same for boundary marking and witness corner, marked,

W. C. on top of cap.

1/4 S 12 on W. face.

1/4 S 7 on E face.

RESERVE in N. E. quadrant.

16.60 Dry Branch, 20 lks. wide, course S. W.

Leave prairie.

Enter scattering timber, bears N. E. and S. W.

Begin ascent, bears N. and S.

33.50 Set oak post, 3 1/2 ft. long, 4 ins. square, 1 1/2 ins. high around same for boundary marking, marked

39.40 RESERVE on N. face.

312

CHIRICAHUA FOREST RESERVE BOUNDARY.

T. 13 S. R. 29 E.

- Chains.
- 45.00 Top of 200 ft. ascent on S. slope, thence along backbone of spur.
- 69.80 Head of gulch, course N. W.
Begin ascent, bears N. and S.
- 77.00 Top of 200 ft. ascent on S. point of ridge.
- 79.73 Set Iron, U. S. Forest Reserve Boundary Post No. 77, 14 ins. in ground to rock and built mound of stone 6 ft. base, 2 1/2 ft. high, around same for boundary marking and witness corner, marked, W. C. on top of cap.
1/4 S. 7 on W. face.
1/4 S. 8 on E. face.
RESERVE in N. W. and N. E. quadrants.
- 79.80 The 1/4 Sec. cor., between sections 7 and 8. Land, mountainous and rolling.
Soil, rocky 4th rate.
Timber, scattered live oak.

From corner of Secs. 7, 8, 17 and 18 which is a post in mound of stone correctly marked, and witnessed. Thence I run North on a true line, between secs. 7 and 8. (Notes show plainly that line was never run as is reported and no survey exists to the north to tie to),

- 3.00 Wash, 8 lks. wide, course S. W.
- 4.50 Leave flat.
Begin ascent, bears E. and W.
- 20.70 Top of 200 ft. ascent on round, rocky butte.
Begin descent.
- 25.60 Head of draw, course N. E.
Base of 80 ft. descent. Begin ascent.
- 40.00 Set Porphyry Lime Stone, 18x6x3 ins., 10 ins. in ground for 1/4 sec. cor. marked 1/4 on W. face, from which
A live oak, 5 ins. diam., bears N. 15° E., 188 lks. dist., marked RES. 1/4 S. 8, B. 1.
No other tree available.
Land, mountainous and hilly.
Soil, rocky and stony 4th rate.
Timber, live oak scattering.

Note.-

No corner exists to the north of 1/4 sec. cor. between Secs. 16 and 17 and surveys reported to the contrary by General Land Office are fraudulent.
April 30, 1905.

May 1, 1905.

At the 1/4 Sec. Cor. between Secs. 16 and 17, which is a decayed stake in small mound of stone marks on stake partially visible. No evidence of the old N. E. bearing tree, I set in place of stake found, an oak post, 4 ft. long, 5 ins. square, 20 ins. in ground for 1/4 sec. Cor., marked,

1/4 S. 17 on W. face.
S. 16 on E. face

from which

A new live oak, 15 ins. diam., bears N. 44°30' E. 173 lks. dist., marked 1/4 S 16 B. 1.
An oak (original) 20 ins. diam., bears S. 19° W. 87 lks. dist., as reported in old notes, I remark 1/4 S 17 B. 1.

From the corner a wind mill bears South 75°20' W. about 25 chs. dist.

House north of mill not visible for orchard.

At this cor. I set off 31 31'30" on latitude arc, and 15000'15" N. on declination arc and at 7 a.m.

CHIRICAHUA FOREST RESERVE BOUNDARY.

T. 18 S. R. 29 E.

Chains.

May 1, 1905, determine meridian with solar.
 Thence I run
 North on true line between secs. 16 and 17.
 Over level land, through cultivated field.
 1.70 Fence bears N. 70°W. and S. 70°E.
 Leave field and enter timber.
 1.80 Begin rocky broken ascent, bears N. 70°W. and S. 70°E.
 7.30 Wash, 5 lks. wide, course S. W.
 13.00 Top of 100 ft. ascent, bears E. and W.
 Thence along E. slope of low ridge.
 26.50 Draw 8 lks. wide, course S. 30°E.
 30.25 Same draw, course S. W.
 39.20 Set Porphyry Lime Stone 20x10x8 ins., 14 ins. in
 ground, for witness corner to corner of Secs.
 8, 9, 16 and 17, marked W. C. on S. face, with 4
 notches on E. and S. faces from which
 A live oak, 6 ins. diam, bears N. 26°30' E.
 66 lks. dist., marked W. C. T 18 S R 29 E,
 S 9, B. T.
 A live oak, 12 ins. diam., bears S. 66°45' E.,
 113 lks. dist., marked W. C. T 18 S R 29 E,
 S 16, B. T.
 A live oak, 4 ins. diam., bears S. 68°30' W.,
 123 lks. dist., marked W. C. T 18 S R 29 E.
 S 17, B. T.
 A live oak, 12 ins. diam., bears N. 60°15' W.
 83 lks. dist., marked W. C. T 18 S R 29 E,
 S 8, B. T. and build mound of stone 3x2 ft.
 3 ft. W. of witness corner.
 40.00 True point for cor. secs. 8, 9, 16 and 17 falls in bed
 of draw, 10 lks. wide, course S. 20° E.
 Land, level and hilly broken.
 Soil, sandy loam and rocky 2nd and 4th rates.
 Timber, live oak, pine and juniper.

From true point for corner of Secs. 8, 9, 16 and 17,
 in bed of draw, 80 lks. N. of W. C.

I run
 North on true line between secs. 8 and 9, ascending
 through timber and brush.
 21.80 Top of 400 ft. broken ascent, bears N. W. and S. E.
 23.00 On W. slope of 30 ft. rock ledge., round top of butte
 bears E. 2 chs. dist., begin descent, down back-
 bone of spur.
 40.00 Mark cross (+) on porphyry ledge, 40 ft. E. and W.,
 100 ft. N. and S., 10 ft above ground, 1/4 W. of
 cross for 1/4 sec. cor., from which
 A pine 5 ins. diam., bears N. 22°45' E., 70
 lks. dist., marked RES. 1/4 S 9, B. T.
 A pine, 6 ins. diam., bears S. 85°W, 85 lks.
 dist. marked 1/4 S 8, B. T., and build
 mound of stone 4x3 ft. W. of cross.
 From Corner pillar rock 30 ft. sq., 30 ins. high,
 bears S. E., 30 lks. dist.
 Land, mountainous and broken.
 Soil, rocky 4th rate.
 Timber, live oak, pine and juniper.

May 1, 1905.

April 30, 1905.

From the 1/4 Sec. Cor. between secs. 7 and 8, I run
 East on random line through center of sec. 8.
 79.72 Intersect E. Bdy. of sec., 6 lks. S. of 1/4 Sec. cor.,
 between secs. 8 and 9.
 Thence returning to 1/4 sec. cor., between Secs. 7 and
 8, from which I run
 North 89°57' E. on true line through center of sec. 8,
 rolling rocky descent, through scattered timber.

CHIRICAHUA FOREST RESERVE BOUNDARY.

T. 18 S., R. 29 E.

- Chains.
- 15.00 Draw 10 lks. wide, course N. for 10 chs. dist., thence
N. W.
Base of 350 ft. descent.
- 17.00 Draw 10 lks. wide, course N. W.
Begin steep rocky broken ascent.
- 19.80 Top of 40 ft. ledge bears N. 20° W., and S. 20° E.
Continue ascent.
- 24.00 N. edge of rock pillar, bears S. 30 lks. dist.
- 25.00 Top of 40 ft. ledge, bears N. and S.
Continue ascent.
- 39.86 Set pine post 3 ft. long, 3 ins. square in mound of
stone 3x2 1/2 ft., for boundary marking, marked
RESERVE in N. face.
Top of 500 ft. ascent on N. end of spur from the
south.
- 40.30 Begin descent, bears N. W. and S. E., through
dense pinion and oak brush.
- 49.80 Side hill draw, 10 lks. wide, course N.
Base of 250 ft. descent, begin ascent.
- 54.75 Top of 100 ft. ascent on N. slope of spur from the S.
Begin steep descent.
- 62.00 Ravine, 15 lks. wide, course N.

CHIRICAHUA FOREST RESERVE BOUNDARY.

T. 18 S. R. 29 E.

- Chains. Base of 200 ft. descent.
 Begin precipitous ascent.
 68.00 Top of 260 ft. ascent on spur, bears N. and S.
 69.00 Begin steep descent, bears N. and S.
 72.00 Base of 100 ft. descent.
 Draw 10 lks. wide, course N. 20° W.
 Begin precipitous ascent.
 76.70 Top of 250 ft. ascent on rock ledge, bears N. and S.
 79.52 Set Iron, U. S. Forest Reserve Boundary Post No. 78,
 on solid rock surface and build mound of stone 7 ft.
 base, 3 1/2 ft. high around same for boundary
 marking and witness corner, marked,
 W. C. on top of cap.
 1/4 S. 8 on W. face.
 1/4 S. 9 on E. face.
 RESERVE in N. W. and N. E. quadrants.
 79.72 The 1/4 Sec. corner between Secs. 8 and 9, as estab-
 lished by me.
 Land, mountainous and precipitous.
 Soil, bare rock and rocky 4th rate.
 Timber, live oak, pinon and juniper.

Note.-

The accompanying diagram shows (in —) the surveys fraudulently reported by the General Land Office as having been made.

(M —) The surveys that were actually made.

(X) The corners actually set on original survey. Therefore, in order to establish the Reserve line so as to conform as much as possible to the old survey that is supposed to exist, I proceed to corner of Tps. 18 and 19 S. Rgs. 28 and 29 E., and proceed as follows to establish the necessary corners.

A reading of the original notes is sufficient to determine where surveys actually exist as the total absence of Topographic notes on fraudulent line and corner descriptions with pits and mounds in the timbered foot hills has proven a correct index.

X = old survey
 — = survey actually made.
 - - - = surveys fraudulently reported

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40

April 30, 1905.

May 2, 1905.

At corner to Tps. 18 S., Rgs. 28 and 29 E., on South boundary of township, which is a ~~temporary~~ stone 6x5x3 ins. above ground correctly marked with 6 notches on N., E. and W. faces, with mound of stone on S. (old marks on S. face have been chiseled out as called for in Jacobs' notes 1902), but S. C. is marked on S. side, instead of N. face as should be, I obliterate the letters S. C. and leave the corner marked as corner on S. boundary of T. 18 S. Rgs. 28 and 29 E., as it is not properly a S. C. I set off 31248'3" on latitude arc and 15°15'12" N. on declination arc, and at 7 a. m., May 2, 1905, determine meridian with solar.

Thence I run East on true line along south boundary of Sec. 31 descending the N. E. slope of a prairie knoll.

8.30 Draw 10 lks. wide course N. 20° W. in ascent.
 Base of 100 ft. descent, begin ascent.

CHIRICAHUA FOREST RESERVE BOUNDARY.

South Bdy. T. 18 S. R. 29 E.

- Chains.
- 18.00 Top of 60 ft. ascent, bears N. E. and S. W. Thence along south side of back-bone of low ridge.
- 38.00 Enter scattering timber, bears N. 70°W. and S.70°E.
- 39.10 (Reported distance) Set Porphyry Lime Stone 20x10x10 ins., 10 ins. in ground, to rock, for 1/4 sec. cor. on South boundary Sec. 31, marked 1/4 on N. face, from which
 - A live oak, 6 ins. diam., bears N. 80°40' E., 172 lks. dist., marked 1/4 S. 31 B. T.
 - A live oak, 12 ins. diam., bears N. 69°40'W. 115 lks. dist., marked 1/4 S. 31 B. T.
- 53.50 I build mound of stone 3x2 ft., 3 ft. north of Cor. Cross back-bone of ridge and begin descent, bears N. 70°W. and S.70°E.
- 55.89 Closing corner of T. 19 S Rgs. 28 and 29 E., bears South, 34 lks. dist, and is
 - A porphyry lime stone 20x12x8 ins. above ground in mound of stone and marked with 6 notches on E., S., and W. faces, and wrongly marked C. C. on N. face, which I obliterate and mark C. C. on South face instead, and is witnessed by bearing trees as called for in notes of General Land Office.
- Note.-
 - As this C. C. was set on a survey made in 1902 and subsequent to survey as reported for south boundary of Sec. 31, it does not affect direction or distance, as reported in original (supposed) survey of the south boundary of this Tp., and I therefore continue my line east, irrespective of this C. C.)
- 64.20 Wash, 5 lks. wide, course N.
- 74.95 Creek 50 lks. wide, course N. 70°W. Water, 15 lks. wide, 8 ins. deep. Base of 150 ft. descent.
- 79.10 (Reported distance) Set Porphyry Lime Stone 28x14x10 ins., 15 ins. in ground, to rock, for corner Sec. 31 and 32 on south boundary T. 18 S R. 29 E., marked with 5 notches on E. and 1 on W. faces, from which
 - A live oak, 8 ins. diam., bears N. 83°45'W., 179 lks. dist., marked T. 18 S., R. 29 E., S. 31, B.T.
 - A live oak, 6 ins. diam., bears N. 61°45' E., 139 lks. dist, marked RES. T. 18 S. R. 29 E., S.32, B. T., and build mound of stone 3 ft. base, 1 ft. high around corner rock.
- Land, rolling and hilly.
- Soil, stony and gravelly 4th rate.
- Timber, live oak and juniper.

At the corner of sections 31 and 32 on south boundary of T. 18 S. R. 29 E., I set off 15°21' N. on declination arc and at 3^m 4^s before noon l.m.t., May 2, 1905, observe sun on the meridian and obtain a reading of 31°48'30" on latitude arc.

- May 2, 1905.
- From corner of Secs. 31 and 32 on South boundary of Tp., just established by me I run
- North on random line between sections 31 and 32.
- 40.00 Set stake for temporary 1/4 corner, no trace of old corner.
- 80.00 Set stake for temporary corner of Secs. 29, 30, 31 and 32. No trace of old corners.
- Continue North between 29 and 30.
- 120.00 Set stake for temporary 1/4 sec. corner, no trace of old corner.
- 159.76 Intersect E. and W. sec. line, 146 lks. W. of Cor. to Secs. 19, 20, 29 and 30.

313
CHIRICAHUA FOREST RESERVE BOUNDARY.

T. 18 S. E. 29 E.

Chains.

Thence returning to cor. of Secs. 31 and 32 on south boundary of T. 18 S. E. 29 E.
From which I run
North 0°31' E. on true line, between Secs. 31 and 32, gradually ascending along rocky west slope.
Scattered timber.

.11 Set Iron, U. S. Forest Reserve Boundary Post NO. 88, 20 ins. in ground, to rock, and build mound of stone, 5 ft. base, 3 ft., high around same for boundary marking and witness corner, marked,
W. C. on top of cap.
T. 18 S. S 32 in N. E. quadrant.
R. 29 E. S 31 in N. E. quadrant.
RESERVE in N. E. quadrant.
(No marks on South).
With 5 notches on E. and 1 on W. sides.

15.50 Draw, 8 lks. wide, course S. W.
28.30 Draw, 10 lks. wide, course S. W.
37.00 Ascent becomes very steep, bears N. W. and S. E.
Top of 400 ft. ascent on W. slope of spur, thence along steep W. slope.

39.94 Set Porphyry Lime Stone 18x12x6 ins., 10 ins. in ground for 1/4 Sec. corner, marked 1/4 on W. face, From which
A juniper, 7 ins. diam., bears S. 29°30' W., 86 lks. dist., marked 1/4 S. 31 B. T.
A live oak, 5 ins. diam., bears N. 29° E. 132 lks. dist., marked RES 1/4 S., 32, B. T.

43.50 Draw, 10 lks. wide, course S. 60° W., begin ascent.
49.50 Top of 150 ft. ascent on W. slope, thence along steep W. slope of spur.
55.00 Begin descent, bears E. and W.
59.00 Draw, 10 lks. wide, course S. 60° W.
Base of 100 ft. descent, begin steep ascent.
68.00 Top of 250 ft. ascent on steep W. slope, thence along W. slope.

75.00 Top of butte, bear S. E. 3 chs. dist.
East and west saddle in ridge bears W., 7 chs. dist., Begin steep descent, bears E. and W.

79.88 Set Porphyry Lime Stone 22x14x12 ins., 6 ins. in ground, to rock, for corner to secs. 29, 30, 31 and 32, marked with 5 notches on E. and 1 on S. faces, from which
A pinion, 4 ins. diam., bears N. 6° E., 112 lks. dist., marked T. 18 S. R. 29 E. S. 29 B. T.
A live oak, 8 ins. diam., bears S. 74°30' E., 82 lks. dist., marked, RES T. 18 S. R. 29 E., S32 B. T.
A live oak, 8 ins. diam., bears S. 25°30' W., 53 lks. dist., marked T. 18 S. R. 29 E. S. 31 B. T.
A juniper, 10 ins. diam., bears N. 2°30' W., 74 lks. dist., marked T. 18 S. R. 29 E. S. 30 B. T.

I build mound of stone 2 1/2 x 1 ft., around stone.
Land, mountainous and hilly.
Soil, rocky and stony 4th rate.
Timber, scattering live oak, pinion and juniper.
May 2, 1905.

May 1, 1905. Louis Warner, axeman, discharged this a.m.

May 1, 1905.

10.40 From corner of secs. 29, 30, 31 and 32, I run North 0°31' E. on true line between secs. 29 and 30. Through scattered timber and brush, steep descent. Side hill wash, 5 lks. wide, course N. 20° W. Descent becomes less abrupt.

310
CHIRICAHUA RESERVE FOREST BOUNDARY.

T. 18 S. R. 29 E.

- Chains.
- 18.40 Same wash, course N. 20°E
24.40 Same wash, course N. 20°W.
Base of steep ascent 650 ft., below sec. corner,
thence gradually descending, rolling land.
- 33.70 Wash, 4 lks. wide, course N. W.
39.94 Set cement stone, 18x8x8 ins., 6 ins. in ground,
with mound of stone 3x1 ft. around same for 1/4
Sec. cor., marked 1/4 on W. face, from which
A live oak, 12 ins. diam., bears S. 52°45' E.
172 lks. dist., marked 1/4 S. 29 B. T.
A live oak, 14 ins. diam., bears N. 82°30'W.,
84 lks. dist., marked 1/4 S. 30 B. T.
- 41.00 Wash, 3 lks. wide, course N. W.
41.80 Wash, 5 lks. wide, course N. W.
50.00 On west end of low spur, begin descent.
53.50 Base of 50 ft., descent bears N. E. and S. W.
Thence gently, rolling land.
- 56.70 Draw, 10 lks. wide, course N. 80°W.
60.70 Draw, 15 lks. wide, course N. 80°W.
64.30 Dim road, bears E. and W.
64.80 Fence bears E. and W.
Leave scattered timber.
Enter field bears E. and W.
- 74.00 Leave cultivated ground, enter timber, bears E. and W.
Cultivated ground extends about 2 chs. E. and about
16 chs. on the W.
75.80 Fence bears E. and W. on the E. end, about 1.20 chs.
turns to S. 10°E.
78.00 Main channel of Ash Creek, water, 15 lks. wide and
6 ins. deep, 2 chs. subject to overflow, course W.
79.88 The corner of Secs. 19, 20, 29 and 30, which is a
Stake 3 ins. square, 2 1/2 ft. above ground in
mound of stone marked and witnessed as described in
notes of General Land Office.
From Cor. of Secs. 29, 30, 31 and 32, I run
North 89°56' East on true line, between secs. 29
and 32 (reported course) along steep rocky broken
north slope.
Scattered timber and brush.
- .05 Set Iron U. S. Forest Reserve Boundary Post No. 87,
12 ins. in ground to rock and build mound of stone
6 ft. base, 3 ft. high around same for boundary
marking and witness corner, marked,
W. C. on top of cap.
T. 18 S. S. 29 in N. E. quadrant.
R. 29 E. S. 32 in S. E. quadrant.
S. 31 in S. W. quadrant.
S. 30 in N. W. quadrant.
RESERVE in S. E. quadrant with 5 notches on E.
and 1 on S. faces.
- 14.00 Begin descent, bears N. W. and S. E.
20.00 Draw, 10 lks. wide, course N.
Base of 300 ft. descent.
Begin steep ascent.
24.20 Top of 100 ft. ascent on N. slope.
26.00 Begin descent, bears N. W. and S. E.
31.20 Draw 10 lks. wide, course N.
Base of 100 ft. descent, begin ascent.
34.00 Top of 100 ft. ascent, bears N. and S..
Continue very gradual ascent along steep N. slope.
39.00 30 ft. ledge bears N. 80°E. and S. 80°W.
39.90 (Reported distance) Set Porphyry stone 20x14x8 ins.,
15 ins. in ground for 1/4 sec. cor., marked 1/4
on N. face, from which
A live oak, 10 ins. diam, bears N. 64°30'E.,
166 lks. dist., marked 1/4 S. 29 B. T.
A live oak, 8 ins. diam, bears S. 43°45' E.,
69 lks. dist., marked RES 1/4 S. 32 B. T.
May 2, 1905.

317
CHIRICAHUA FOREST RESERVE BOUNDARY.

T. 18 S. R. 29 E.

- Chains. May 3, 1905.
- 47.00 Draw 10 lks. wide, course N. W.
Ascent becomes steep and bears N. and S.
- 52.00 Head of small draw, course N. W.
- 55.50 Top of 350 ft. ascent, bears N. E. and S. 20°W.
Thence along gradual N. slope.
- 58.50 Cross back-bone of spur, bears N. 80°E. and S. 80°W.
Thence along gradual S. slope.
- 70.00 Begin steep descent, bears N. E. and S. W.
- 79.10 Draw 10 lks. wide, course S. 30°W.
Base of 200 ft. descent, begin ascent.
- 79.75 Set Iron, U. S. Forest Reserve Boundary Post No. 86,
30 ins. in ground and build mound of stone, 3 ft.
base, 1 ft. high, around same, for boundary marking
and witness corner, marked,
W. C. on top of cap.
T. 18 S. S. 28 in N. E. quadrant.
R. 29 E. S. 33 in S. E. quadrant.
S. 32 in S. W. quadrant.
S. 29 in N. W. quadrant.
RESERVE in N. E., S. E. and S. W. quadrants,
with 4 notches on E. and 1 on S. sides.
- 79.80 Set Porphyry stone 20x14x5 ins., 15 in. in ground
for corner of Secs. 28, 29, 32 and 33, marked
with 4 notches on E. and 1 on S. faces from which
A pine, 10 ins. diam., bears N. 60°30' E.,
79 lks. dist., marked, RES T. 18 S. R. 29 E.
S. 28 B. T.
A juniper, 12 ins. diam., bears S. 32°E.,
62 lks. dist., marked, RES T. 18 S. R. 29 E.
S. 33 B. T.
A juniper, 6 ins. diam., bears S. 34°45' W.,
81 lks. dist., marked RES. T. 18S, R29E.,
S. 32, B. T.
A pine, 10 ins. diam., bears N. 2°15' W., 98
lks. dist., marked T. 18S. R.29E., S.29,B.T.
Corner falls on steep W. slope.
Land mountainous and broken.
Soil, rocky 4th rate.
Timber, live oak, small pine and juniper.

This line run on bearing and distance reported in
notes of General Land Office to conform with old
Survey that is supposed to exist.

- From Cor. of Secs. 28, 29, 32 and 33, I run
North on random line, between secs. 28 and 29.
- 40.00 Set stake for temporary 1/4 sec. cor. No trace of
old corner.
- 80.00 Set stake for cor of secs. 20, 21, 28 and 29. No
trace of old corner.
- 120.00 Thence continue north, between Secs. 20 and 21.
Set stake for temporary 1/4 sec. cor. No trace of
old corner.
- 160.19 Intersect E. and W. sec. line, 86 lks. W. of corner to
Secs. 16, 17, 20 and 21.
Thence returning to corner of sections 28, 29, 32
and 33, from which I run
North 0°18'E. on true line, between sections 28 and 29
along steep W. slope, scattering timber and cluster
brush.
- 2.10 Rocky draw, 10 lks. wide, course S. 20°W., heads 5 chs.
N. E.
- Begin ascent, bears N. E. and S. W.
- 13.00 Top of 150 ft. ascent on ridge, bears N. 80°E. and
S. 80°W.
- 14.00 Begin steep descent, bears N. 80° E. and S. 80°W.
- 18.00 Head of gulch, course N. W.

CHIRICAHUA FOREST RESERVE BOUNDARY.

T. 18 S. R. 29 E.

Chains.

- 21.00 West point of rock on spur from S. E.
Thence continue descent down spur.
- 40.05 Set Porphyry Limb Stone 12x8x8 ins., 12 ins. in
ground for 1/4 sec. Corner, marked 1/4 on W. face,
from which
A live oak, 10 ins. diam, bears S. 78°E., 64 lks.
dist., marked RES. 1/4 S. 28 B. T.
A live oak, 15 ins. diam, bears S. 67°15'W.
128 lks. dist., marked, 1/4 S. 29 B. T.
- 55.00 Draw, 15 lks. wide, course N. 60°.
Base of 600 ft. descent.
Thence over rolling ground.
- 62.00 Draw, 10 lks. wide, course N. 60°W.
- 65.50 Draw, 5 lks. wide, course N. 70°W.
Begin gradual ascent.
- 73.00 Top of 90 ft. ascent, bears E. and W.
- 75.00 Begin descent, bears E. and W.
- 80.00 Set Iron, U. S. Forest Reserve Boundary Post No. 35,
16 ins. in ground, to rock, and build mound of
stone, 5 ft. base, 2 1/2 ft. high around same for
boundary marking and witness corner, marked,
W. C. on top of cap.
T. 18 S. S. 21 in N. E. quadrant.
R. 29 E. S. 28 in S. E. quadrant.
S. 29 in S. W. quadrant.
S. 20 in N. W. quadrant.
RESERVE in S. E. quadrant, with 4 notches
on E. and 2 on S. faces.
- 80.09 Set Porphyry Stone 18x12x12 ins., 12 ins. in ground
for corner of sections 20, 21, 28 and 29, marked
with 4 notches on E. and 2 on S. faces, from which
A live oak, 7 ins. diam, bears N. 31°45' E.;
57 lks. dist., marked T. 18 S. R. 29 E. S. 21
B. T.
A live oak, 12 ins. diam., bears S. 10°E.,
128 lks. dist., marked RES. T. 18 S. R. 29 E.
S. 28, B. T.
A live oak, 10 ins. diam., bears S. 65°W., 91 lks.
dist., marked T. 18 S. R. 29 E., S. 29 B. T.
A juniper, 7 ins. diam., bears N. 49°15' W.,
72 lks. dist., marked T. 18 S. R. 29 E. S. 20
B. T.
- Land mountainous and broken.
Soil, rocky and stony 4th rate.
Timber, live oak, pine and juniper.

At the corner of Secs. 20, 21, 28 and 29, I set off
15°39' N. on declination arc and at 3^h11^m before
noon l.m.t., May 3, 1905, observe sun on meridian
and obtain reading of 31°50' on latitude arc.

- From Cor. to Secs. 20, 21, 28 and 29, I run
North 0°18'E. on true line, between Secs. 20 and 21,
rolling ground, gradual descent, scattered timber and
brush.
- 8.10 Fence bears E. and W.
- 9.05 Draw 10 lks. wide, course N, 60° W.
Base of 60 ft. gradual descent, thence over gently
rolling flat.
- 21.40 Draw, 10 lks. wide, course N. W. (Storm water 3 lks.
wide.)
- 23.70 Ash Creek, 50 lks. wide (water 15 lks. wide, 8 ins.
deep), course S. 80°W.
- 32.00 Dry wash, 8 lks. wide, course S. W.
- 34.75 Old road, bears E. and W.
- 40.05 Set Porphyry Stone 20x12x8 ins., 14 ins. in ground

CHIRICAHUA FOREST RESERVE BOUNDARY.

T. 18 S R. 29 E.

- Chains. for 1/4 Sec. Cor., marked 1/4 on W. face, from which
 A live oak, 16 ins. diam., bears N. 55°15'E.,
 131 lks. dist., marked 1/4 S. 21 B. T.
 A live oak, 8 ins. diam., bears S. 76° W.,
 123 lks. dist., marked 1/4 S. 20 B. T.
 and build a mound of stone 2 1/2 x 2 ft., 3 ft., W.
 of corner.
- 53.50 Draw, 20 lks. wide, course N. 80°W.
 63.25 Draw, 15 lks. wide, course S. 80°W.
 68.90 Draw 10 lks. wide, course S. W.
 80.09 1/2 Corner of sections 16, 17, 20 and 21, I find bottom of
 decayed post in ground and set in same place a
 porphyry stone 22x14x14 ins., 15 ins. in ground for
 corner of Secs. 16, 17, 20 and 21, marked with 4
 notches on E. and 3 on S. faces.
 The old N. E. bearing tree is dead but standing. The
 S. E. and S. W. trees, dead and fallen, but marks
 visible and are as reported from corner.
 N. W. tree, as called for in General Land Office notes
 and left as found. From corner
 A new live oak, 18 ins. diam., bears N. 28°E.,
 109 lks. dist., marked T. 18 S. R. 29 E. S. 16 B. T.
 A new live oak, 10 ins. diam., bears S. 64°30' E.
 99 lks. dist., marked T. 18 S. R. 29 E. S. 21,
 B. T.
 A new live oak, 10 ins. diam., bears S. 7°45'W.
 250 lks. dist., marked T. 18 S. R. 29 E., S. 20
 B. T.
 An original live oak, 10 ins. diam., bears N. 41°
 W., 162 lks. dist., as called for, old mark-
 ings (T 18 S. R. 29 E. S. 17, B. T.), left as
 found.
 And I build mound of stone 2x3 ft., 3 ft. W. of Cor.
 Land, rolling and hilly.
 Soil, rocky and gravelly 3rd and 4th rate.
 Timber, live oak, and juniper.

- From Corner of Secs. 20, 21, 28 and 29, as just es-
 tablished by me, I run
 South 89°52' E. on true line between Secs. 21 and 28
 (reported course in notes of General Land Office)
 Along rolling, rocky N. slope, scattering timber and
 brush.
- 1.96 W. fence bears N. and S.
 8.85 Draw, 15 lks. wide, course N. 20° W.
 18.90 Draw, 8 lks. wide, course N. 30°W.
 30.00 Spring Brook, 10 lks. wide, course N. W.
 35.75 Draw 10 lks. wide, course N. W.
 40.08 1/2 Set Porphyry Lime Stone 18x12x6 ins., 3 ins. in
 ground, to rock, and build mound of stone 3 ft.
 base, 1 ft. high around same for 1/4 sec. cor. marked
 1/4 on N. face, from which
 A juniper, 10 ins. diam., bears N. 17°30'W.,
 57 lks. dist., marked 1/4 S. 21, B. T.
 A juniper, 5 ins. diam., bears S. 49°15'W. 91
 lks. dist., marked, RES. 1/4 S. 28, B. T.
- 45.35 Draw, 20 lks. wide, course N. 30° W. (Water (storm) 5 lks.
 wide and 3 ins. deep).
 55.90 Draw, 5 lks. wide, course N.
 Begin ascent, bears N. and S.
 70.60 Top of 200 ft. ascent on spur, bears N. and S.,
 begin descent, round butte on N. end of spur, bears
 N. 10 chs. dist., and about 100 ft. higher than top
 of spur at this point.
- 80.07 Set Iron, U. S. Forest Reserve Boundary Post, No. 84,
 16 ins. in ground, to rock, and build mound of stone
 5 ft. base, 2 1/2 ft. high around same, for boundary
 marking and witness corner, marked,
 W. C. on top of cap.
 T 18 S S 22 in N. E. quadrant.

T. 18 S. R. 29 E.

Chains.

R 29 E S 27 in S. E. quadrant.
 S 28 in S. W. quadrant.
 S. 21 in N. W. quadrant.
 RESERVE in N. E., S. E. and S. W. quadrants,
 with 3 notches on E. and 2 on S. faces.

80.17 Set Porphyry Lime Stone 22x10x8 ins., 12 ins. in
 ground for corner of Secs. 21, 22, 27 and 28,
 marked with 3 notches on E. and 2 on S. faces, from
 which

A live oak, 10 ins. diam., bears N. 74°30' E.,
 28 lks. dist., marked RES T. 18 S. R 29E., S. 22,
 B. T.

A live oak, 12 ins. diam., bears S. 14°E., 44
 lks. dist., marked RES T. 18 S. R 29 E., S.
 27, B. T.

A live oak, 12 ins. diam., bears S. 26°30' W.,
 119 lks. dist., marked, RES. T. 18S, R29E
 S. 28 B. T.

A live oak, 7 ins. diam., bears N. 29°45' W.,
 72 lks. dist., marked T. 18S R. 29E, S21, B.T.

Corner falls on E. slope, 15 lks. W. of a draw whose
 course is N. 20°E.
 Land, rolling and hilly and broken.
 Soil, rocky 4th rate.
 Timber, live oak, juniper and pine.

May 3, 1905.

May 4, 1905.

At corner to Secs. 21, 22, 27 and 28, I set off
 31°50' on latitude arc and 15°53'45" N. on declina-
 tion arc and at 7 a.m., May 4th, 1905, determine
 meridian with solar.

Thence from corner of Secs. 21, 22, 27 and 28, just
 established by me I run
 North on true line between secs. 21 and 22 (reported
 course in fictitious notes - no survey exists to
 the north.)

Along rocky E. slope through timber and dense brush.

2.75 Wash, 4 lks. wide, course N. 60°W.
 11.00 Wash, 6 lks. wide, course N. 60°E.
 15.00 Begin descent, bears N. W. and S. E.
 26.70 Draw, 15 lks. wide, course N. 60°W.
 Base of 100 ft. descent, thence over rolling flat.

29.65 Old Road, bears E. and W.
 31.80 Ash Creek, 40 lks. wide, course S. 80°W. (Water 15 lks.
 wide and 6 ins. deep).

40.00 Set Porphyry Lime Stone 16x8x6 ins., 11 ins. in ground
 for 1/4 sec. cor., marked 1/4 on W. face from which
 A live oak, 10 ins. diam., bears S. 64°30' E.,
 32 lks. dist., marked, RES. 1/4 S. 22, B. T.
 A live oak, 6 ins. diam, bears N. 68°W., 3 lks.
 dist., marked 1/4 S. 21 B. T.

46.75 Wash, 6 lks. wide, course S. 60°W.
 Begin ascent, bears E. and W.

54.30 West point of rock spur.
 57.00 Draw, 10 lks. wide, course W.
 58.40 Draw 20 lks. wide, course S. W.
 69.50 Same draw, course S. 20°E.
 Ascent becomes very steep.

78.00 Top of 350 ft. ascent on ridge, bears E. and W.
 Divide between Turkey and Ash Creeks.
 Begin steep descent, bears E. and W.

80.00 Set Porphyry Lime Stone, 18x10x8, 12 ins. in ground for
 corner of secs. 15, 16, 21 and 22, marked with 3
 notches on E. and S. faces, from which

A live oak, 7 ins. diam., bears N. 81°30' E.,
 50 lks. dist., marked T. 18S. R. 29E., S15
 B. T.

A pine, 6 ins. diam, bears S. 10°E., 61 lks.
 dist., marked T. 18 S. R. 29E. S. 22 B.T.

325
CHIRICAHUA FOREST RESERVE BOUNDARY.

T. 18 S. R29 E.

Chains. A juniper, 8 ins. diam., bears S. 71°W., 138
lks. dist., marked T. 18 S., R. 29 E. S. 21 B.T.
A live oak, 5 ins. diam., bears N. 25°45' W.,
45 lks. dist., marked, T. 18S. R.29E S.16 B.T.
Land, Mountainous and rolling.
Soil, rocky and gravelly 4th rate.
Timber, live oak, juniper and pine.

At Cor. of Secs. 15, 16, 21 and 22, I set off
15°46'30" N. on declination arc and at 3⁴¹17^s be-
fore noon l.m.t., May 4, 1905, observe sun on me-
ridian and obtain reading of 31°51' on latitude arc,
Thence (at 1 p.m.) I run
North on true line between secs. 15 and 16, descend-
ing through timber and brush.

5.50 Draw 10 lks. wide, course N. 10°W.
15.00 Same draw, course N.10°E.
21.00 Base of 400 ft. descent.
Enter bottom land, bears E. and W.
22.50 Turkey Creek 100 lks. wide, course N.80°W.,
(Water 50 lks. wide, 12 ins. deep)
27.50 Road bears N. 80°W. and S. 80°E.
29.00 Old washed road bed, bears N. 70°W. and S. 70°E.
31.75 Draw, 20 lks. wide, course S. W.
39.00 Wash 4 lks. wide, course S. E.
Leave bottom land.
Begin gradual ascent, bears E. and W.
40.00 Set Porphyry Lime Stone 20x8x8 ins., 3 ins. in-ground,
to rock, with mound of stone 2x1 1/2 ft. around
same for 1/4 sec. cor. marked 1/4 on W. face from
which
A live oak, 8 ins. diam., bears S. 62°45' E.
127 lks. dist., marked 1/4 S. 15, B. T.
A live oak, 14 ins. diam., bears S. 55°30'W.,
106 lks. dist., marked 1/4 S. 16 B. T.
59.00 Top of 150 ft. ascent on E. end of low ridge from
the W.
Begin gradual descent, bears N. W. and S. E.
67.80 Wash 3 lks. wide, course S. E.
Base of 50 ft. descent, thence gradual ascent over
rolling rocky surface.
80.00 Set Porphyry Lime Stone 18x8x8 ins., 10 ins. in
ground for corner of secs. 9, 10, 15 and 16, marked
with 3 notches on E. and 4 on S. faces from which
A juniper, 10 ins. diam., bears N. 20°E., 102
lks. dist., marked RES. T 18S R29E S10 B T.
A juniper, 12 ins. diam., bears S. 49°45'E., 69
lks. dist, marked T. 18 S. R29E S.15 B. T.
A juniper, 22 ins. diam., bears S. 66°W., 52 lks.
dist., marked T. 18 S R. 29 E. S.16 B. T.
A live oak, 9 ins. diam, bears N. 39°45' W., 101
lks. dist., marked T. 18S R.29 E., S.9, B. T.
Land, mountainous and rolling.
Soil, rocky and gravelly 3rd and 4th rate.
Timber, live oak, juniper and pine.
May 4, 1905.

May 5, 1905.

At Corner to Secs. 15, 16, 21 and 22 I set off
31°51' on latitude arc and 16°11' N. on declination
arc and at 7 a.m., May 5, 1905, establish meridian
with solar.

Thence I run
East on true line between sections 15 and 22 (New
Survey)

.14 Along steep N. slope, through timber and brush.
Set Iron, U. S. Forest Reserve Boundary, Post No.83,
28 ins. in ground and build mound of stone, 5 ft.,
base, 1 1/2 ft. high, around same for boundary marking

CHIRICAHUA FOREST RESERVE BOUNDARY.

T. 18 S., R. 29 E.

Chains.

and witness corner, marked,
 W. C. on top of cap.
 T 18 S S 15 in N. E. quadrant.
 R. 29 E S 22 in S. E. quadrant.
 S 21 in S. W. quadrant.
 S 16 in N. W. quadrant.
 RESERVE in S. E. quadrant, with 3 notches on
 E. and S. sides.

7.50 On North slope of spur, extending to N.
 Begin descent, bears N. 70°W. and S. 70°E.

10.65 House on creek, bears N. 38°38'E., about 3chs.dist.

16.40 Draw 8 lks. wide, course N. (Heads 4 chs. S. in saddle.)
 Base of 150 ft. descent.
 Begin ascent, bears N. E. and S. W.

20.50 Top of 100 ft. ascent on N. slope of spur.
 Begin descent, bears N. W. and S. E.

24.00 Draw, 10 lks. wide, course N. (Heads 10 chs. S.)
 Base of 100 ft. descent, begin steep rocky ascent,
 N. 30°E and S. 30°W.

34.00 Top of 200 ft. ascent, bears N. E. and S. W., thence
 along steep N. slope.

40.00 Set Porphyry Lime Stone 24x14x4ins., 4 ins. in ground,
 to rock, and build mound of stone 3ft. base 1 1/2 ft.
 high around same, for 1/4 sec. cor., marked 1/4
 on N. face from which
 A pine 10 ins. diam, bears N. 53°15'E., 23 lks.
 dist., marked 1/4 S 15, B. T.
 A pine, 12 ins. diam., bears S. 19°15'E., 18 lks.
 dist., marked RES 1/4 S. 22 B. T.

43.00 Begin abrupt descent, bears N 20°W. and S. 20°E.

45.50 Head of gulch, course N. 20°W.

58.50 Draw, 20 lks. wide, course N.
 Base of 300 ft., descent.

63.00 Draw, 5 lks. wide, course N. 20°W.
 Begin ascent bears N. 20°W. and S. 20° E.

69.00 Top of 100 ft. ascent on N. slope of spur.

70.00 Begin descent, bears N. W. and S. E.

78.00 Wash, 4 lks. wide, course N.
 Base of 100 ft. descent, thence over rolling rocky
 surface.

80.00 Set Porphyry Lime Stone 18x8x8 ins., 12 ins. in
 ground for corner to Secs. 14, 15, 22 and 23,
 marked with 2 notches on E. and 3 on S. faces,
 from which
 A live oak, 8 ins. diam., bears N. 68° E.,
 83 lks. dist., marked, RES. T 18 S R 29 E,
 S. 14, B. T.
 A pine, 10 ins. diam., bears S. 6°30'E., 71 lks.
 dist., marked RES. T 18 S R 29 E, S 23, B. T.
 A pine, 8 ins. diam., bears S. 81°W., 62 lks.
 dist., marked RES T 18 S, R 29 E, S 22, B. T.
 A pine 24 ins. diam., bears N. 15°30'W. 203 lks.
 dist., marked T 18 S R 29 E S 15, B. T.

Land, mountainous and broken.
 Soil, rocky and stony 4th rate.
 Timber, live oak, pine and juniper.

At the Corner to Secs. 14, 15, 22 and 23, I set off
 16°13'45" N. on declination arc and at 3^h23^s before
 noon l.m.t., May 5th, 1905, observe sun on meridian
 and obtain a reading of 31°51" of latitude arc.

From cor. to Secs. 14, 15, 22 and 23, just set, I
 run
 North 0°1'E (parallel to west boundary of Sec. 15)
 on true line, between Secs. 14 and 15 over rolling
 surface, through timber and brush.

329
CHIRICAHUA FOREST RESERVE BOUNDARY.

T. 18 S R. 29 E.

Chains.
.07 Set Iron, U. S. Forest Reserve Boundary Post No. 82, 16 ins. in ground, to rock, and build mound of stone 6 ft. base, 2 1/2 ft. high around same, for boundary marking and witness corner, marked W. C. on top of cap.
T 18 S S 14 in N. E. quadrant.
R 29 E S 23 in S. E. quadrant.
S 22 in S. W. quadrant.
S 15 in N. W. quadrant.
RESERVE in N. E., S. E. and S. W. quadrants, with 2 notches on E. and 3 on S. sides.

6.35 Creek, 50 lks. wide, course N. W.
Water, 10 lks. wide and 4 ins. deep.

8.25 Draw, 8 lks. wide, course W.
Begin gradual ascent, bears E. and W.

13.35 Draw, 10 lks. wide, course S. 60°W.
17.00 Draw, 10 lks. wide, course S. W.
Ascent becomes steep and rocky.

27.50 Top of 200 ft. ascent on rocky ridge, bears E. and W., begin descent.

39.30 Base of 300 ft. descent, bears S. 80°E. and N. 80°W.
40.00 Set Porphyry Lime Stone 20x12x5 ins., 14 ins. in ground for 1/4 sec. cor. marked 1/4 on W. face, from which
A juniper, 24 ins. diam., bears S. 72°45'E., 155 lks. dist., marked, RES 1/4 S 14, B. T.
A juniper, 14 ins. diam., bears N. 69°15'W., 61 lks. dist., marked 1/4 S. 15, B. T.
From corner Mr. Choats' house, bears about east (not visible), about 20 chs. dist.

40.60 Turkey Creek, 60 lks. wide, course N. 80°W.
48.00 N. W. Corner of Choat's fence, bears E. 1.50 chs. dist.

49.55 Road bears S. 80°E. and S. 80°W.
49.70 Set Oak Post 3 1/2 ft. long, 5 ins. square, 14 ins. in ground and build mound of stone, 4 ft. base 2 ft high around same for boundary marking, marked RESERVE on East face:

52.80 Draw, 15 lks. wide, corner S. W.
Begin gradual ascent, bears N. E. and S. 70°W.

71.90 Draw, 8 lks. wide, course S. 30°E.
80.00 Set Porphyry Lime Stone 22x14x8 ins., 15 ins. in ground for corner to Secs. 10, 11, 14 and 15, marked with 2 notches on E. and 4 on S. faces from which
A live oak, 12 ins. diam., bears N. 33°15'E., 108 lks. dist., marked, RES. T 18 S R 29 E, S 11, B. T.
A live oak, 7 ins. diam, bears S. 57°30' E., 88 lks. dist., marked, RES. T 18 S R 29 E S 14 B. T.
A live oak, 14 ins. diam., bears S. 29°15'W., 74 lks. dist., marked T 18 S R 29 E S 15, B. T.
A live oak, 9 ins. diam., bears N. 72°30' W., 116 lks. dist., marked RES. T 18 S R 29 E S 10, B. T.

Land, mountainous and rolling.
Soil, rocky and gravelly 4th rate.
Timber, live oak, juniper and pine.
Land cultivated and in orchards in patches along Turkey Creek in Sec. 14 and Sec. 15.

40.00 From Cor. to Secs. 10, 11, 14 and 15, I run
80.05 West on random line, between Secs. 10 and 15.
Set stake for temporary 1/4 Sec. Cor.
Intersect N. and S. Sec. line, 3 lks. S. of corner to Secs. 9, 10, 15 and 16, thence returning to corner of Secs. 10, 11, 14 and 15, from which I run

331
CHIRICAHUA FOREST RESERVE BOUNDARY.

T 18 S R 29 E.

- Chains.
- North 89°59' W. on true line, between Secs. 10 and 15.
 Along rocky S. slope.
 Scattered timber and brush.
- .08 Set Iron U. S. Forest Reserve Boundary Post No. 81,
 18 ins. in ground, to rock, and build mound of stone
 5 1/2 ft. base, 2 ft. high around same for boundary
 marking and witness corner, marked
 W. C. on top of cap.
 T 18 S S 11 in N. E. quadrant.
 R 29 E S 14 in S. E. quadrant.
 S 15 in S. W. quadrant.
 S 10 in N. W. quadrant.
 RESERVE in N. W., N. E., and S. E. quadrants,
 with 2 notches on E. and 4 on S. sides.
- 2.85 Rocky draw, 8 lks. wide, course S. E.
 Begin ascent.
- 6.50 Top of 50 ft. ascent on spur, bears N. and S.
 Thence gradual descent, bears N. W. and S. E.
- 14.70 Draw, 10 lks. wide, course S. W.
 Base of 80 ft. descent.
- 22.30 Draw 15 lks. wide, course S. 20°W.
- 25.00 Center Criniga about 2 chs. square, drains to S.
- 27.50 Spring seap drains to S.
 Thence gradual ascent bears N. and S.
- 38.00 Top of 90 ft. ascent, ~~XXXX~~ N. ~~XXX~~ on South slope.
 Bald round mountain, bears N. about 12 chs. dist.
- 40.02 Set Porphyry Lime Stone 16x12x8 ins., 10 ins. in
 ground for 1/4 sec. corner, marked 1/4 on N. face
 from which
 A live oak, 6 ins. diam, bears N. 42°E., 17
 lks. dist., marked RES. 1/4 S 10, B. T.
 A live oak, 7 ins. diam, bears S. 56°E. 144 lks.
 dist., marked 1/4 S. 15 B. T.
- 42.00 Begin gradual descent, bears N. W. and S. E.
- 48.50 Draw 5 lks. wide, course S. W.
- 53.25 Wash, 3 lks. wide, course S. W.
- 67.30 Draw, 10 lks. wide, course S. W.
 Base of gradual descent 100 ft., thence along flat
 saddle divide.
- 75.10 Old road, bears N. and S. (Wood road).
- 80.05 Corner to Secs. 9, 10, 15 and 16.
 Land, mountainous and rolling.
 Soil, rocky and stony 4th rate.
 Timber, live oak, juniper and pine.

May 5, 1905.

May 6, 1905.

- At the corner to Secs. 9, 10, 15 and 16, I set off
 31°52' on latitude arc and 16°28'W. on declination
 arc and at 7 a.m., May 6, 1905, establish meridian
 with solar.
- Thence I run
 North on true line (reported course of supposed sur-
 vey) between Secs. 9 and 10 over rolling rocky
 surface through juniper and oak timber.
- .10 Set Iron U. S. Forest Reserve Boundary Post No. 80,
 10 ins. in ground to rock and build mound of stone
 6 ft. base, 3 ft. high around same for boundary
 marking and witness corner, marked
 W. C. on top of cap.
 T 18 S S 10 in N. E. quadrant.
 R 29 E S 15 in S. E. quadrant.
 S 16 in S. W. quadrant.
 S 9 in N. W. quadrant.
 RESERVE in N. E. quadrant, with 3 notches in
 and 4 on S. sides.
- 2.00 Divide of low flat saddle, bears E. and W., between
 drainage to Rock Creek on North and Turkey Creek on S.

CHIRICAHUA FOREST RESERVE BOUNDARY.

T 18 S R 29 E.

Chains.
 6.10 Old road bears N. 30°W. and S 30° E.
 9.25 Draw, 10 lks. wide, course N. 30° W., gradual ascent.
 13.00 Wash, 3 lks. wide, course S. 60°W.
 21.00 Top of low spur, extending from mountain to S. 60°E.
 25.60 Wash, 5 lks. wide, course N. 60°W.
 28.30 Wash, 10 lks. wide, course N. 60°W.
 38.85 Draw, 8 lks. wide, course S. 80°W.
 39.90 Set Iron U. S. Forest Reserve Boundary Post No. 79,
 22 ins. in ground and build mound of stone 5 ft
 base, 2 ft. high around same, for boundary marking
 and witness corner, marked
 W. C. on top of cap.
 1/4 S. 9 on W. wide.
 1/4 S 10 on E. side.
 RESERVE in N. W., N. E. and S. E. quadrants.
 40.00 Set Porphyry Lime Stone 12x8x8 ins., 12 ins. in
 ground for 1/4 sec. corner, marked 1/4 on W. face,
 from which
 A juniper, 7 ins. in diam., bears N. 36°45' E.
 10 lks. dist, marked RES. 1/4 S 10, B. T.
 A juniper, 7 ins. diam., bears S. 29°15' W.,
 79 lks. dist., marked 1/4 S 9, B. T., and
 build mound of stone 2 1/2 x 2 ft, 3 ft. W. of
 corner.
 Land, rolling.
 Soil, stony and gravelly 4 th rate .
 Timber, juniper and oak.

79.44 From 1/4 Sec. Cor. between Secs. 9 and 10, I run
 West on random line through center of Sec. 9.
 Intersect west boundary of Sec. 9 lks N. of 1/4 Sec. .
 Cor. between sections 8 and 9.
 Thence returning to 1/4 section corner, between Secs.
 9 and 10, from which I run
 South 89°56' W. on true line, through center of Sec. 9
 over gently rolling surface. Timber and brush.
 19.85 Draw 20 lks. wide, course N. 80°W.
 21.20 Same draw, course S. 80°W.
 23.25 Same draw, course N. 70°W.
 27.50 Enter flat wash of same draw, course W. from N.80°E.
 38.00 Leave wash, course N. 80°W, from E.
 39.50 Draw, 15 lks. wide, course N. W.
 40.00 Set oak post 3 1/2 ft. long, 5 ins. square 6 ins. to
 rock, and build mound of stone, 4 ft. base 3 ft.
 high around same for boundary marking, marked,
 RESERVE on N. face.
 43.50 Same draw, course S. 80°W.
 46.00 Same draw, course N. 80°W.
 49.00 Elbow of Rock Creek, bears N. 1.00 ch. dist., course
 of creek is N. 60°W. from N. 70°E.
 Begin gradual ascent bears N. 80°W. and S. 80°E.
 54.10 Draw 8 lks. wide, course N.
 58.50 Draw 8 lks. wide, course N.
 65.00 Draw 8 lks. wide, course N.
 Begin precipitous rocky ascent, bears N. 20°W. and
 S. 20°E.
 78.00 Top of 400 ft. ascent, bears N. 20°W. and S. 20°E.
 79.44 The 1/4 sec. corner between secs. 8 and 9.
 Land, rolling and mountainous.
 Soil, rocky and gravelly 4th rate.
 Timber, live oak, juniper and pine.

May 7, 1905.

General Description.

The central-western portion of the Tp. is gently
 rolling and level surface and largely under cultivation
 settlement extending as far east as sec. 14, on Turkey
 Creek .

335

CHIRICAHUA FOREST RESERVE BOUNDARY.

T 19 S R 29 E.

Chains.

The remaining portion of Tr. and for the most part lying within the reserve is mountainous and hilly covered with scattering timber and affording grasses for stock grazing cedar of commercial value (for posts, etc.) in N. W. 1/4 Sec. 15 and S. W. 1/4 Sec. 10. -A school house is situated approximately in S. W. 1/4 of Sec. 17.

May 8, 1905.

At Cor. to Secs. 19, 20, 29 and 30, which is a cement stone 7x6x6 ins. above ground firmly set and marked and witnessed as called for in notes of General Land Office.

(A.M. May 8th, in getting to and finding corner). I set off 31°45' on latitude arc and 17°4'30" N. on declination arc and at 1 p.m., May 8th, determine meridian with solar.

Thence I run North 0°03' W. on true line between sections 19 and 20, ascending rocky hill, bears N. 70° W. and S. 70° E., very scattering timber.

6.00 Top of ridge, bears N. 70° W. and S. 70° E, 150 ft. above section corner.

Thence over hilly broken surface, through oak and pinion brush.

9.35 Head of draw, course N. W.

15.90 Begin precipitous descent, bears E. and W.

22.50 Base of 250 ft. descent, thence over brushy, rocky flat.

26.80 Dry Branch, 30 lks. wide, course N. 80° W.

30.75 Flat rocky wash, 5 lks. wide, course S. 70° W., thence gradual ascent.

40.00 Set Porphyry Lime Stone 20x8x4 ins., 5 ins. in ground to rock and build mound of stone, 3 ft. base, 1 ft. high around same for 1/4 Sec. corner, marked 1/4 on W. face, from which

A live oak, 5 ins. diam. bears S. 21°15' E., 86 lks. dist., marked 1/4 S. 20, B. T.

A live oak, 8 ins. diam., bears S. 23°45' W., 51 lks. dist., marked 1/4 S 19 B. T.

42.00 Leave rolling flat, bears E. and W., thence over rocky hilly surface.

45.05 Wash, 5 lks. wide, course S. W.

52.65 Dry Branch, 35 lks. wide, course S. W.

67.00 Top of 100-Ft. ridge, bears E. and W.

73.15 Draw 10 lks. wide, course W.

80.00 Set Cement stone 26x10x8 ins., 12 ins. in ground to rock, and build mound of stone 3 ft. base, 1 ft. high around same for corner to Secs. 18 and 19, marked with 5 notches on E. and 3 on S. faces from which

A live oak, 8 ins. diam, bears S. 41°45' W., 253 lks. dist., marked, T 19 S R. 29 E. S 19, B. T.

No N. W. tree available, I took a N. E. and S. E. bearing tree, but after closing from the east out of limits and finding a C. C. to Secs. 17 and 20, necessary, I chopped out the markings on these trees, leaving this corner common to Secs. 18 and 19 only.

Land, hilly and broken. Soil, rocky and stony 4th rate. Timber, live oak, pinion and juniper.

From corner to Secs. 18 and 19 just established I run North 0°03' W. on true line along east boundary of Sec. 18, over rocky, hilly surface, very scattering

T. 19 S R. 29 E.

- Chains. timber.
- 4.00 Top of spur bears N. 70°E. and S. 70°W.
- 8.10 Draw, 10 lks. wide, course W.
- 18.10 Wire fence, bears N. E. and S. W. around corral which extends 5 chs. on each side of line.
- 20.70 Draw 10 lks. wide, course S. W.
- Spring in draw 3 chs. dist. N. E.
- 25.00 Wire fence, bears E. and S. W.
- 33.80 Head of draw, course S. W.
- 40.00 Set Porphyry Lime Stone 26x8x4 ins., 6 ins. in ground to rock and build mound of stone 3x1 1/2 ft. around same for 1/4 sec. corner, marked 1/4 on W. face, from which
A live oak, 14 ins. diam., bears N. 29°15'E., 118 lks. dist., marked 1/4 S 17 B. T.
- No other trees available.
- 41.40 Top of ridge bears N. 80°W. and S. 80°E.
- Begin steep descent.
- 47.00 Base of 100 ft. descent, bears E. and W.
- 49.20 Creek, in "John Long" or "Ross" canyon, 40 lks. wide course N. 85°W.
- 50.90 Old road bears N. 85°W and S. 85°E.
- Begin gradual ascent.
- 61.50 Draw 10 lks. wide, course S. W.
- Thence steep ascent of hill dotted with heavy growth of mescal.
- 73.00 Top of 100 ft. ascent, thence along gradual West slope.
- 78.00 Head of draw, course S. 70°W.
- 80:00 Set granite stone 18x12x8 ins., 12 ins. in ground for corner to sections 7 and 18, marked with 5 notches on E. and 4 on S. faces, from which
a live oak, 14 ins. diam, bears S. 79°45'W., 73 lks. dist., marked T 19 S R 29 E S 18 B. T.
A live oak, 6 ins. diam., bears N. 13°15'W., 78 lks. dist., marked T. 19 S R 29 E S 7, B.T.
and build a mound of stone 2 1/2 x 2 ft., 3 ft., W. of corner.
- (A N. E. and S. E. bearing tree were taken but after C. C. for secs. 8 and 17 was found necessary, I chopped out markings on those trees.)
- Land, hilly and broken.
- Soil, rocky and stony 4th rate.
- Timber, live oak and juniper.

May 8, 1905.

May 9, 1905.

- At corner common to Secs. 7 and 18, I set off 31°47' on latitude arc and 17°17'45" Non declination arc and at 7 a.m., May 9th, determine meridian with solar.
- Thence I run North 0°03"W. on true line along East boundary of Sec. 7, over hilly rocky surface, through very scattering timber.
- 0.40 Stock trail, bears E. and W.
- 1.50 Begin descent bears E. and W.
- 5.80 Draw, 10 lks. wide, course N. 80°W.
- Base of 100 ft. descent, begin ascent.
- 30.00 Top of ridge, bears E. and W., 200 ft. above draw, begin descent.
- 37.25 Draw 10 lks. wide, course W.
- Base of 100 ft. descent.
- Begin gradual ascent.
- 40.00 Set Porphyry Lime Stone 22x14x5 ins., 8 ins. in ground to rock and build mound of stone 3x1 ft. around same for 1/4 Sec. Cor., marked 1/4 on W. face from which
A live oak, 10 ins. diam., bears S. 65°E, 137

330

107

CHIRICAHUA FOREST RESERVE BOUNDARY.

T. 19 S. R 29 E.

Chains.

- 1 lks. dist., marked, RES 1/4 S 8, B. T.
- A live oak, 11 ins. diam., bears N. 43°W.
- 74 lks. dist., marked 1/4 S 7, B.T.
- 51.00 Top of 150 ft. ascent, bears E. and W., round bald hill, bears N. 80°W., about 15 chs. dist.
- Saddle in ridge, 5 chs. East and saddle 5 chs. N. of this hill.
- 61.30 Draw 10 lks. wide, course N. 60°E.
- Heads 10 chs. W. against N. and S. saddle.
- Base of 200 ft. descent.
- Begin ascent.
- 71.00 Top of 150 ft. ascent on spur, bears N. 80°E. and W.
- round hill on W. end of spur, bears N. 80°W. 5 chs. dist.
- 72.00 Begin descent.
- 80.00 Set Porphyry Lime Stone 20x8x8 ins., 8 ins. in ground and build mound of stone 3x1 ft. around same for corner to secs. 5, 6, 7 and 8, marked with 5 notches on E. and S. faces from which
 - A live oak, 5 ins. diam., bears N. 39°30'E., 129 lks. dist., marked, RES. T 19 S R 29 E S 5, B. T.
 - A live oak, 5 ins. diam., bears S. 62°30'E., 62 lks. dist., marked, RES. T 19S R29 E, S 8, B. T.
 - A live oak, 6 ins. diam., bears S. 54°W. 83 lks. dist., marked T. 19 S R 29 E, S 7, B. T.
 - A live oak, 8 ins. diam, bears N. 57°30' W., 128 lks. dist., marked, T 19 S R.29 E, S 6, B. T.

Land, hilly and broken.
Soil, rocky and stony 4th rate.
Timber, scattering live oak.

Note.-
This corner is marked as common to secs. 5, 6, 7 and 8, as I did not run line between secs. 5 and 8 and this is a corner common to four sections until this line is run.

At Cor. to Secs. 5, 6, 7 and 8, I set off 17°20' N. on declination arc and at 3^m40^s before noon l.m.t., May 9th, 1905, observe sun on meridian and obtain reading of 31°47'45" on latitude arc.

- From cor. to Secs. 5, 6, 7 and 8 I run North 0°03' E. on true line between sections 5 and 6 descending rocky N. slope, scattered timber.
- .06 Set Iron U. S. Forest Reserve Boundary Post No. 90 24 ins. in ground and build mound of stone 6 ft. base 2 ft. high around same for boundary marking and witness corner, marked,
 - W. C. on top of cap.
 - T 19 S S 5 in N. E. quadrant.
 - R 29 E S 8 in S. E. quadrant.
 - S 7 in S. W. quadrant.
 - S 6 in N. W. quadrant.
 - RESERVE in N. E. and S. E. quadrants, with 5 notches on S. and E. sides.
- 7.00 Draw 15 lks. wide, course N. 70°W.
- Base of descent 150 ft. below Sec. Cor.
- Enter dense oak brush flat.
- 8.50 Another channel of same draw, 10 lks. wide, course N. 70°W.
- 9.50 Trail bears N. 70°W. and S. 70°E.
- 14.50 Draw 15 lks. wide course, N. 70° W.

CHIRICAHUA FOREST RESERVE BOUNDARY.

T. 19 S R29 E.

Chains.

- 15.00 Leave flat and dense brush.
Begin gradual ascent, scattered timber, bears N.70°W.
and S. 70°E.
- 22.50 Top of 100 ft. ascent on low spur, bears E. and W.
Begin gradual descent.
- 28.50 Draw, 10 lks. wide, course W.
Base of 100 ft. descent, begin steep ascent.
- 35.00 A 50-ft. vertical ledge, bears E. and W.
- 38.60 A 20 ft. vertical ledge, bears N. E. and N. W.
- 40.00 Set Porphyry Lime Stone 18x8x6 ins., 5 ins. in ground,
to rock, and build mound of stone 3x1 ft., around
same for 1/4 Sec. Cor., marked 1/4 on W. face,
from which
A pine, 5 ins. diam., bears S. 9°15'E., 36 lks
dist., marked RES. 1/4 S 5, B. T.
A pine, 4 ins. diam., bears N3°15' W., 11 lks.
dist., marked 1/4 S. 6 B. T.
- 40.70 Top of 300 ft. ascent on point of rock, extending
from N. 20°E.
- 41.00 Begin precipitous descent over ledge, bears N.20°E.
and S. 20°W.
- 46.00 Head of draw, course S. W.
Base of 150 ft. descent, thence gradual ascent.
- 54.50 Top of 150 ft. ascent in saddle of E. and W. ridge.
- 55.00 Begin steep brushy descent, bears E. and W.
- 67.00 Draw 10 lks. wide, course N. W.
Base 350 ft. descent.
Begin ascent, scattered timber.
- 74.00 Top of 150 ft. ascent on steep W. slope of spur.
- 75.00 Begin descent, bears N. E. and S. W. down brushy slope.
- 89.30 Creek 50 lks. wide (water 10 lks. wide and 3 ins.
deep), course S. 60°W.
Base of 200 ft. descent.
Begin ascent bears N. E. and S. W.
- 92.93 Set Iron U. S. Forest Reserve Boundary Post No. 89,
6 ins. in ground, to rock, and build mound of stone
6 ft. base, 3 ft. high around same for boundary
marking and witness closing corner., marked,
W.C.) on top of cap S. of center.
C. C.)
R 29 E, S 5 in N. E. quadrant.
T 19 S S 6 in S. W. quadrant.
RESERVE in N. W., N. E. and S. E. quadrants,
with 5 notches in E. and 1 on W. faces.
- 93.00 Intersect N. boundary of Tp. 54.93 chs. E. of cor.
to secs. 31 and 32, at which intersection, I set
A Porphyry Lime Stone 20x14x6 ins., 6 ins. in ground
to rock, and build mound of stone 3x1 around same
for C.C. Secs. 5 and 6 marked
C. C. on S. face, 5 notches on E. and 1 on W.
faces, from which
A juniper, 5 ins. diam, bears S. 61°30' E., 74
lks. dist., marked RES. C. C. T. 19 S R29E,
S. 5, B. T.
A live oak, 3 ins. diam., bears S. 5°15' W.,
43 lks. dist., marked C. C., T 19 S, R 29 E.,
S 6, B. T.
Corner falls on S. E. slope, 100 ft. above creek.
Land, mountainous, hilly and broken.
Soil, rocky and stony, 4th rate.
Timber, live oak, pine and juniper.

From cor. to Secs. 31 and 32 on south boundary,
T. 18 S. R 29 E., I run
East on true line along south boundary Sec. 32, over
rocky rolling surface, timber and brush.
10.00 Begin steep ascent, bears N. 80°W. and S. E.

343 -

105

CHIRICAHUA FOREST RESERVE BOUNDARY.
South Bdy. T. 18 S R. 29 E.

- Chains.
- 13.00 Top of 180 ft. ascent on S. slope of rocky point on a 50 ft. cliff, bears N. 20°W. and S. 20°E.
- 16.50 Begins broken descent, bears N. E. and S. W.
- 21.50 Draw 15 lks. wide, course S. W.
Water in pools.
Base of 150 ft. descent.
Begin steep broken ascent, bears N. E. and S. W.
- 27.50 North face of 100 ft. cliff bears S. 20 lks. dist.
- 39.00 Top of 500 ft. rocky ascent on ridge, bears N. 70°E. and S. 70°W.
- 40.00 Set Porphyry Lime Stone 22x10x8 ins. on solid rock in mound of stone 3x2 ft., for 1/4 Sec. Cor. on S. boundary, Sec. 32, marked 1/4 on N. face, from which
A live oak 4 ins. diam, bears N. 74°30' E.,
93 lks. dist., marked, RES. 1/4 S. 32 B. T.
No tree available N. W.
East face of ledge 10 ft. high, 10 ft. N. and S. 20 ft. E. and W. bears West 5 lks. dist.
Thence from 1/4 Sec. Cor. descending, bears N. 70°E. and S. 70°W.
- 50.50 Ravine, 5 lks. wide, course S.
- 53.80 Pinnacle of rock of ledge bears N. and S.
Thence 25 ft. vertical descent.
- 54.93 C. C. Secs. 5 and 6 previously described.
Land, mountainous and precipitous.
Soil, bare rock and rocky 4th rate.
Timber, live oak, pinion and juniper.
May 9, 1905.

May 10, 1905.

T. 19 S R. 29 E.

- At the 1/4 Sec. Cor. between Secs. 20 and 21, which is a cement stone 12x4x6 ins. above ground, correctly marked 1/4 on W. face, from which
A new live oak, 4 ins. diam., bears N. 48°30' E., 132 lks. dist., marked RES. 1/4 S. 21, B.T.
A new live oak, 5 ins. diam., bears N. 70°30' W., 40 lks. dist., marked, RES. 1/4 S 20, B. T.
with mound of stone W. of corner as called for in notes of General Land Office.
I set off 31°45'30" on latitude arc and 17°33'30" N. on declination arc and at 7 a.m., May 10, 1905, establish meridian with solar.
- Thence I run
North 0°2' W. on true line between secs. 20 and 21, gradually ascending hilly, rocky surface, very scattered timber.
- 14.25 Draw 10 lks. wide, course S. 70°W.
- 29.00 Top of 250 ft. spur, bears N. 80°E. and S. 80°W.
Begin descent.
- 33.85 Side hill wash, 5 lks. wide, course N. W.
- 39.80 Base of 200 ft. descent, bears N. 80°E. and S. 80°W.
- 40.00 Set Perphyry Lime Stone 18x14x10 ins., 11 ins. in ground for corner to Secs. 16, 17, 20 and 21, marked with 4 notches on E. and 3 on south faces from which
A live oak, 12 ins. diam., bears N. 39°45' E., 103 lks. dist., marked T. 19 S R29 E., S. 16, B. T.
A live oak, 5 ins. diam., bears S. 73°30'E. 47 lks. dist., marked T. 19 S R. 29 E, S. 21, B. T.
A live oak, 12 ins. diam., bears S. 89°W. 102 lks. dist., marked T. 19 S. R 29 E., S. 20, B. T.
A live oak, 8 ins. diam., bears N. 42°30' W., 92 lks. dist., marked T. 19 S. R 29 E., S17, B.T.

345'

CHIRICAHUA FOREST RESERVE BOUNDARY.

T. 19 S. R. 29 E.

Chains.

and build mound of stone 3x2 ft., 3 ft. W. of corner.
Land, rolling and hilly.
Soil, rocky and stony 4th rate.
Timber, live oak, pinion and juniper.

From corner to Secs. 16, 17, 20 and 21, I run
West on random line between sections 17 and 20.
40.00 Set stake for temporary 1/4 Sec. Cor.
78.40 Intersect N. and S. Sec. line, 102 lks. S. of corner
to Secs. 18 and 19, (which would put course of
line out of limits), I therefore,
Return to corner to secs. 16, 17, 20 and 21, from
which I run
West on true line, between sections 17 and 20, over
flat, through scattered timber and brush.
7.00 Draw 20 lks. wide, course S. 80°W.
8.00 Leave flat and timber and brush, bears N. E. and S. W.
Thence along S. slope of rocky prairie hill.
21.00 Draw 10 lks. wide, course S. 60°W. (skirted with
timber).
39.50 Draw 10 lks. wide, course S. 60°W.
40.00 Set cement stone 16x12x10 ins., 10 ins. in ground
for 1/4 Sec. Corner marked 1/4 on N. face, from
which
A live oak, 12 ins. diam, bears N. 44°30'W.,
120 lks. dist., marked 1/4 S. 17, B. T.
A live oak, 5 ins. diam., bears S. 11°45' W.,
49 lks. dist., marked, 1/4 S. 20, B. T.
87.50 Cross backbone of prairie spur, bears N. 80°30' and S.
80°W., thence descending
67.60 Draw 8 lks. wide, course S. W.
Base of 150 ft. descent.
Leave prairie.
Enter scattered timber, bears N.R. and S. W.
71.50 Old trail, bears N. W. and S. E.
75.50 Draw 10 lks. wide, course S. W.
78.40 At intersection of N. and S. Sec. line, 102 lks.
S. of corner to Secs. 18 and 19.
Set a cement stone 20x8x5 ins. in ground, to rock,
and build mound of stone 3x1 ft. around same for
C.C. secs. 17 and 20, marked C. C. on E. face,
5 notches on E. and 3 on S. faces, from which
A live oak, 6 ins. diam., bears N. 60°30' E.,
76 lks. dist., marked C. C. T. 19S, R. 29 E,
S. 17, B. T.
A live oak, 8 ins. diam., bears S. 61°45' E.,
90 lks. dist., marked C. C. T. 19S R29E,
S. 20, B. T., and build mound of stone 3x2
ft, 3 ft. E. of corner.
Land, rolling and hilly.
Soil, rocky and stony 4th rate.
Timber, scattered live oak.

At this C.C. to Secs. 17 and 20, I set off
17°36' N. on declination arc and at 3^m43^s before
noon l.m.t., May 10th, 1905, observe sun on merid-
ian and obtain reading of 31°46' on latitude arc.

78.42 From 1/4 Sec. Cor., between Secs. 19 and 20, I run
South 89°16' E. on random line through center Sec. 20.
Intersect E. side of Sec. 7 lks. S. of 1/4 Sec. Cor.
between Secs. 20 and 21.
Thence returning to 1/4 Sec. Cor., between Secs. 19
and 20, from which I run
South 89°19' E. on true line through center of Sec.
20.
Over hilly, rocky land, very scattered oak timber.

24.07

CHIRICAHUA FOREST RESERVE BOUNDARY.

T. 19 S. R. 29 E.

- Chains.
- 21.50 Draw 15 lks. wide, course S. W.
- 35.00 Top of 100 ft. spur, bears N. 60°E. and S. 60°W.
- 38.70 True distance to center corner as set on N. and S. (See next mile).
- 39.20 Set stake for temporary center corner (at half way on true line).
- 51.30 Draw 10 lks. wide, course S. 60°W.
- 70.00 Top of 100 ft. spur, bears N. 70°E. and S. 70°W.
- 76.00 Wash, 3 lks. wide, course S. 20°W.
- 78.42 1/4 sec. corner between secs. 20 and 21.
Land, rolling and hilly.
Soil, rocky and stony 4th rate.
Timber/ scattered live oak.

-
- 39.50 From 1/4 Sec. Cor., between secs. 17 and 20, I run South 0°30' E. on random line through center Sec. 20. Temporary stake set at half way point on E. and W. true line, bears East 43 lks. dist.
 - 79.40 Intersect S. boundary of Sec. 14 lks. east of 1/4 Sec. Cor., between secs. 20 and 29. Thence returning to 1/4 Sec. Cor. between secs. 17 and 20 from which I run South 0°24' E. on true line through center Sec. 20, (Cor in N. edge of scattered timber), descending through scattered timber.
 - 1.15 Wash, 5 lks. wide, course S. W.
Base of descent.
Enter brushy flat.
 - 2.10 Draw 25 lks. wide, course S. 60°W.
 - 5.20 Leave flat and brush, thence gradual ascent over low rocky foot hills, scattered timber.
 - 13.00 Top of 50 ft. spur, bears N. 70°E. and S. 70°W.
 - 26.90 Draw 15 lks. wide, course S. 60°W.
 - 31.00 Side hill wash, 5 lks. wide, course N. W.
 - 36.00 Top of 100 ft. spur bears N. 70°E. and S. 70°W.
 - 39.50 At intersection with true E. and W. line. (50 lks. W. of temporary stake set on E. and W. line)
At this point of intersection
Set Iron, U. S. Forest Reserve Boundary Post, No. 93, 20 ins. in ground and build mound of stone 6 ft. base, 2 ft. high around same, for boundary marking and center corner Secs. 20, marked
CENTER S 20 around beveled edge of cap on N. side.
RESERVE in N. E. quadrant.
from which
A live oak, 7 ins. diam., bears N. 25°E., 221 lks. dist., marked RES. C 1/4 S 20, B. T.
A live oak 9 ins. diam., bears N. 38°30' W. 94 lks. dist., marked C 1/4 S 20, B. T.
 - 47.00 Draw 10 lks. wide, course S. 70°W.
 - 55.00 Top of 100 ft. spur, bears N. 70°E. and S. 70°W.
 - 63.50 Trail bears E. and W.
 - 65.40 Draw 15 lks. wide, course N. 80° W.
 - 72.75 3 wire fence bears E. and W.
Top of 150 ft. spur bears E. and W.
 - 75.00 Begin descent, bears E. and W.
 - 79.40 The 1/4 Sec. Cor. between secs. 20 and 29 which is a (+) cross on cement boulder in place, marked and witnessed as called for in notes of General Land Office. (ockfellow's notes).

May 10, 1905.

May 11, 1905.
At Cor. to Secs. 16, 17, 20 and 21 I set off 31°46' on latitude arc and 17°49' N. on declination arc and at 7 a.m., May 11th, 1905, establish meridian with solar.
Thence I run North 0°2' W. on true line between secs. 16 and 17
Over flat through timber and brush.

CHIRICAHUA FOREST RESERVE BOUNDARY.

T. 19 S R 29 E.

- Chains.
- 2.00 Draw 15 lks. wide, course S. 80°W.
2.50 Leave brush and flat.
Enter very scattered timber and begin steep rocky ascent, bears N. 80°E. and S. 80°W.
- 9.00 Top of steep ascent, continue gradual ascent.
14.85 Draw 8 lks. wide, course S. W.
25.50 Top of ridge, bears N. 80°E. and S. 80°W.
450 ft. above Sec. corner, begin descent.
- 33.50 Draw 10 lks. wide, course N. 70°W.
Base of 300 ft. descent, begin ascent.
- 40.00 Set Cement Stone 18x10x4 ins., 12 ins. in ground for 1/4 sec. corner, marked 1/4 on W. face, from which
A live oak, 6 ins. diam., bears N. 44°15'E., 123 lks. dist., marked 1/4 S. 16, B. T.
A double live oak, 8 ins. diam., bears N. 71°W., 58 lks. dist., marked 1/4 S. 17 B. T.
- 40.50 Top of 150 ft. ascent on W. slope of spur.
41.00 Begin descent, bears N. 60°E. and S. 60°W., through timber and cluster brush.
- 48.50 Base of 300 ft. descent.
Enter brushy flat bears E. and W.
Old Road bears N. 80°E and W.
- 51.15 Old Road bears N. 80°E and W.
52.25 Creek 40 lks. wide, water 10 lks. wide and 6 ins. deep, course W., in "John Long" or "Ross" canyon.
- 53.00 Begin ascent bears N. 80°E, and W.
Leave dense brush and enter scattered timber and cluster brush.
- 80.00 Set Porphyry Lime Stone 18x12x10 ins., 11 ins. in ground for corner to sections 8, 9, 16 and 17, marked with 4 notches on E. and S. faces, from which
A live oak, 14 ins. diam., bears N. 46°45'E., 69 lks. dist., marked T. 19 S R 29 E S 9, B. T.
A live oak, 16 ins. diam., bears N. 63°30'W., 48 lks. dist., marked, T 19 S R 29 E S 8, B. T.
No other trees available, build mound of stone 3x2 ft., 3 ft. W. of Cor.
Corner falls on S. slope of spur 400 ft. above creek.
Land, mountainous and rolling.
Soil, rocky and stony 4th rate.
Timber, live oak and juniper.

-
- From corner to Secs. 8, 9, 16 and 17, I run West on true line, between secs. 8 and 17, along South slope of rocky ridge, very scattered timber.
- 3.30 Head of draw, course S. 20°W. for 5 chs. then W.
18.00 Begin descent, bears N. 20°W. and S. 80°E.
26.90 Draw 10 lks. wide, course S. 20°W for 4 chs., joins draw from E. and flows W.
Base of 150 ft., descent, begin ascent.
- 32.00 Top of 100 ft., ascent, bears N. E. and S. 80°W.
34.00 Begin descent, bears N. 80°W. and S. 80°E.
40.00 Set Porphyry Lime Stone 20x14x7 ins., 12 ins. in ground for 1/4 sec. cor., marked 1/4 on N. face, from which
A live oak, 10 ins. diam., bears N. 68°15'W., 95 lks. dist., marked RES. 1/4 S. 8 B. T.
A live oak, 7 ins. diam, bears S. 81°45'E., 102 lks. dist., marked RES. 1/4 S. 17, B.T. and build mound of stone 2 1/2 ft x 2 ft. N. of corner.
- 44.60 Draw 10 lks. wide, course N. 80°W.
Base of 200 ft. descent, begin ascent, bears N. 80°W. and S. 80°E.
- 59.50 Top of 100 ft. ascent, bears N. 80°W. and S. 80°E.
Thence gradual descent down backbone of ridge.

357
CHIRICAHUA FOREST RESERVE BOUNDARY.

T. 19 S. R 29 E.

- Chains.
78.37 Set Iron U. S. Forest Reserve Boundary Post No. 91, 12 ins. in ground, to rock, and build mound of stone 5 1/2 ft. base, 3 ft. high around same for boundary marking and witness C. C., marked.
W. C. on top of cap.
C. C. on top of cap E. of center.
T 19 S S 8 in N. E. quadrant.
R 29 E S 17 in S. E. quadrant.
RESERVE in N. E. quadrant, with 5 notches on E. and 4 on S. faces.
- 78.45 Intersect N. and S. Sec. line, 99 lks. S. of corner to Secs. 7 and 18, at which intersection, I set Porphyry Lime Stone 18x6x6 ins., 12 ins. in ground for C. C., Secs. 8 and 17, marked C.C. on E. face, 5 notches on E. and 4 on S. faces, from which
A live oak, 6 ins. diam., bears N. 6°15'E., 46 lks. dist., marked RES. C.C. T 19 S R 29 E, S 8, B. T.
A live oak, 10 ins. diam., bears S. 19°45'E., 69 lks. dist., marked C.C. T 19 S R 29 E S 17, B. T.
Land, hilly and rolling.
Soil, rocky and stony 4th rate.
Timber, live oak, and scattering.
-
- At C. C. to Secs. 8 and 17, I set off 17°51'45" N. on declination arc and at 3^h45^m before noon l.m.t. May 11th, observe sun on meridian and obtain reading of 31°47" on latitude arc.
-
- 80.02 From 1/4 sec. cor. between Secs. 8 and 17 I run South 0°2' E. on random line through center of Sec. 17. Intersect South boundary of section, 10 lks. E. of 1/4 Sec. Cor.
Thence returning to 1/4 Sec. Cor. between Secs. 8 and 17, from which I run South 0°2' W., on true line through center Sec. 17, descending.
- .07 Set Iron U. S. Forest Reserve Boundary Post No. 92, 26 ins. in ground and build mound of stone, 5 ft. base 1 1/2 ft. high around same for boundary marking and witness corner marked,
W. C. on top of cap.
1/4 S 8 on N. side.
1/4 S 17 on S. side.
RESERVE in N. W., N. E. and S. E. quadrants.
- 2.80 Draw, 10 lks. wide, course N. 80°W.
Base of 80 ft. descent.
Begin steep ascent.
- 8.50 Top of 200 ft. ascent, ridge bears N. 85°W. and S. 85°E.
11.00 Begin descent bears N. 80°W. and S. 80°E.
33.00 Base of 350 ft. descent, bears E. and W.
Enter flat in "Ross" canyon, dense brush.
- 33.90 Set cak post 3 1/2 ft. long, 4 ins. square, 12 ins. in ground and build mound of stone 4x2 ft. around same, for boundary marking, marked
RESERVE on E. face.
- 34.05 Old road, bears E. and W.
37.15 Creek 50 lks. wide, course N. 80°W.
(Water 10 lks. wide and 8 ins. deep).
"John Long" or "Ross" canyon creek.
- 39.85 Leave flat and brush, begin steep ascent, scattered timber, bears E. and W.
- 47.50 Top of 200 ft. ascent on ridge, bears E. and W.
57.70 Draw 10 lks. wide, course W.
Base of 150 ft. descent, begin ascent, bears E. and W.
- 65.00 Top of 100 ft. ascent, ridge E. and W.
Leave scattered timber, begin descent of rocky prairie hill, bears E. and W.
- 80.02 The 1/4 Sec. Cor., between Secs. 17 and 20.

T. 19 S R 29 E.

Chains. Land, mountainous and rolling.
Soil, rocky and stony 4th rate.
Timber, live oak scattering.

May 11, 1905.

May 12, 1905.

- At the 1/4 sec. corner, between secs. 20 and 21,
I set off 31°45'30" on latitude arc and 18°04'30" N.
on declination arc and at 7 a.m., May 12th, establish
meridian with solar.
- Thence I run
South 89°30' E. on random line, through center Sec. 21
78.64 Intersect East boundary of Sec. 83 lks. N. of 1/4 Sec.
Corner, between Secs. 21 and 22.
Thence returning to 1/4 Sec. Cor. between Secs. 20
and 21, from which I run
South 88°54' E. on true line through center of Sec.
21, gradually ascending along rolling S. slope.
Scattered timber.
- 15.30 Enter draw, course S. 85°W. from E..
20.00 Leave draw, course W. from S. 80°E.
28.00 Top of saddle, bears N. and S., about 140 ft. above
1/4 section corner.
Begin gradual descent.
- 31.85 Draw 10 lks. wide, course S. 20°W.
Base of 40 ft. descent, begin gradual ascent.
- 39.32 Set Iron U. S. Forest Reserve Boundary Post No. 94,
24 ins. in ground for boundary marking, marked
RESERVE in N. W. and N. E. quadrants
from which
A juniper 12 ins. diam., bears S. 61°15'E.,
183 lks. dist., marked B. P., No. 94, B. T. and
build mound of stone 4 1/2 ft. base 1 1/2 ft.
high around post.
- 40.10 Wash 3 lks. wide, course S.
41.55 Wash 5 lks. wide, course S. 30°W.
Begin steep rocky ascent, bears N. and S.
46.60 Wire fence, bears N. 75°E. and S. 75°W.
55.50 Top of 150 ft. ascent on rocky ridge, bears N. and S.
Thence abrupt broken descent.
- 72.50 Draw 15 lks. wide, course S. 30°E.
Base of 400 ft. descent.
- 73.50 Draw 10 lks. wide, course S. 20°E.
Begin ascent bears N. W. and S. E.
- 78.64 The 1/4 sec. cor. between Secs. 21 and 22, which is a
cross on cement stone in place 6x6x8 ins. above
ground marked 1/4 on W. face with mound of stone
2 1/2 x 1 ft. W. of Cor., from which
A new live oak, 10 ins. diam, bears N. 9°45' E.
145 lks. dist., marked RES. 1/4 S. 22, B. T.
A new live oak, 12 ins. diam., bears S. 68°45' W.
103 lks. dist., marked 1/4 S 21, B. T.
(B.Ts. should have been taken in original
survey by Rockfellow).
- Land, mountainous and rolling.
Soil, rocky and stony 4th rate.
Timber, scattering live oak and juniper.

At the 1/4 sec. cor. between secs. 21 and 22 I set
off 18°07'15" N. on declination arc and at 3⁴⁷ be-
fore noon l.m.t., May 12, 1905, observe sun on
meridian and obtain reading of 31°45'30" on lati-
tude arc.

From the 1/4 sec. Cor. between secs. 21 and 22 I run
South 89°30' E. on random line through center of Sec. 22.

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111

CHIRICAHUA FOREST RESERVE BOUNDARY.

T. 19 S R. 29 E.

Chains. Intersect E. boundary of Sec. 155 lks. South of 1/4
 79.70 Sec. Cor. between Secs. 22 and 23.
 Thence returning to 1/4 Sec. Cor. between Secs. 21
 and 22, from which I run
 North 89°23' E. on true line through center of Sec. 22.
 Through scattered timber, rocky ascent.
 2.60 Top of 100 ft. ascent on S. slope of ridge, thence
 along rocky S. slope.
 11.10 Side hill wash 8 lks. wide, course S.
 29.25 Draw 10 lks. wide, course S. 30°W.
 Base of hill bears N. 30°E. and S. W.
 Thence rolling valley, dense brush.
 36.90 Wash, 5 lks. wide, course S. 30°W.
 39.85 Set, Iron U. S. Forest Reserve Boundary Post No. 95,
 22 ins. in ground and build mound of stone 6 ft.
 base, 2 ft. high around post, for boundary marking,
 marked RESERVE in N. W. and N. E. quadrants from
 which
 A live oak, 10 ins. diam, bears S. 11°W. 243
 lks. dist., marked, B. P., No. 95, B.T.
 A live oak 6 ins. diam., bears N. 34°15'W., 69
 lks. dist., marked RES B.P. No. 95, B.T.
 58.75 Wash 15 lks. wide course S. 30°W.
 62.75 Wash 10 lks. wide, course S.
 63.90 Wash 10 lks. wide, course S.
 64.80 Wash 15 lks. wide, 10 ft. banks, course S. W.
 79.20 Wash 10 lks. wide, 10 ft. banks, Course S 20°W.
 79.70 At the 1/4 sec. Cor. between secs. 22 and 23, which
 is a cement stone 10x8x8 ins. above ground correct-
 ly marked 1/4 on W. face from which
 A live oak (original) 10 ins. diam., bears S. 2°
 30'E., 42 lks. side., instead of S. 30°E.
 42 lks., as called for, I leave old marks as
 found, correct.
 A live oak (original), 12 ins. diam, bears
 S. 50°W., 50 lks. dist., instead of S. 40°
 W., 50 lks. as called for in original notes.
 I build mound of stone 2x1 W. of corner and
 leave otherwise as found.
 Land, mountainous and rolling.
 Soil, rocky, stony and gravelly 4th rate.
 Timber, live oak, pine and juniper.

From the 1/4 sec. corner, between secs. 22 and 23 I run
 East on random line through center Sec. 23.
 79.75 Intersect N. and S. Sec. line. 131 lks. N., of 1/4
 Sec. Cor. between Sections 23 and 24.
 Thence returning to 1/4 Sec. cor. between Secs. 22
 and 23, from which I run
 South 89°04' E. on true line through center of Sec. 23,
 over rolling timbered flat.
 5.00 Begin gradual rocky ascent, bears N.W. and S. E.
 12.75 Top of 50 ft. rocky ridge, bears N.W. and S. E.
 Begin gradual descent.
 25.25 Draw 10 lks. wide, course S. 30°E.
 Base of 80 ft. descent.
 Thence over rolling brushy valley.
 31.25 Draw 10 lks. wide, course S. 20°W.
 35.25 Dry Branch 30 lks. wide, course S. W.
 38.40 Old brush fence, bears N. 20°E. and S. 20°W.
 39.87 Set Iron U. S. Forest Reserve Boundary Post, No. 96,
 24 ins. in ground and build mound of stone 5x2
 ft. around same for boundary marking, marked
 RESERVE in N. W. and N. E. quadrants, from
 which
 A pine, 10 ins. diam, bears S. 52°30'W., 70
 lks. dist., marked B.P. No. 96, B.T.
 A pine, 12 ins. diam., bears N. 52°15'W., 128
 lks. dist., marked RES. B.P. No. 96, B.T.

CHIRICAHUA FOREST RESERVE BOUNDARY.

T. 19 S R 29 E.

Chains.

- 43.80 Draw 10 lks. wide, course S.
 - 46.25 Creek 50 lks. wide, course S. 30°W.
(Water 5 lks. wide, 3 ins. deep.)
 - 48.00 Old adobe cabin bears S. 2 chs. dist.
 - 48.70 Stock trail, bears N. E. and S. W.
 - 51.00 Draw, 10 lks. wide, course N. 60°W.
 - 53.50 Elbow of same draw, course S., 80°W., from S. 80°E.
 - 73.40 Draw 5 lks. wide, enters from N. at elbow.
 - 79.75 Same draw, course S. 60°W.
- The 1/4 Sec. Cor. between Secs. 23 and 24, which is
A Porphyry Lime Stone 12x10x8ins. above ground,
correctly marked 1/4 on W. face from which
A pine (original) 10 ins. diam., bears N. 26°
W., 55 lks. dist., instead of N. 30°W., 57
lks. as called for in notes of General
Land Office. I add RES., above old
markings of 1/4 S. 23 B. T.
A new pine 12 ins. diam., bears S. 73°15'E.,
122 lks. dist., marked 1/4 S 24, B.T.
- Land rolling and hilly
Soil, gravelly and sandy 3rd and 4th rates.
Timber, live oak, pine and juniper, oak brush.
May 12, 1905.

May 13, 1905.

- At the 1/4 Sec. Cor. between Secs. 23 and 24, T. 19 S.
R. 29 E, I set off 31°45'30" on latitude arc and
18°19'30" on declination arc and at 7 a.m., May
13, 1905, establish meridian with solar.
- Thence I run
S. 89°30'E., on random line through center Sec. 24.
- 80.14 Intersect E. boundary of Tp. 49 lks. S. of 1/4 Sec. Cor.
between secs. 19 and 24. Thence returning to 1/4
Sec. Cor., between secs. 23 and 24, from which I run
S. 89°51' E. on true line through center of Sec. 24
over rolling brushy timbered flat.
 - 5.25 Creek 50 lks. wide, course S. 20° W.
(Water 5 lks. wide, 4 ins. deep.)
 - 7.00 Leave flat, begin gradual rocky ascent, bears N. and S.
 - 14.50 Top of 90 ft. ascent, ridge bears N. 20° W. and S. 20°E.
Begin gradual descent.
 - 21.50 Base of 90 ft. descent.
 - 24.40 Enter brushy flat bears N. and S.
 - 37.15 Wash 5 lks. wide, course S. 30° E.
 - 39.00 Branch 30 lks. wide, course S.
(Water 3 lks. wide, 1 in. deep.)
 - 41.00 Enter bed of draw, course S. 80° W. from E.
 - 68.50 Leave draw, course W. from N. E.
 - 72.50 Descend 20 ft. bank, bears N. E. and S. 20° W.
Set oak post 4 ft. long, 6 ins. square, 12 ins. in
ground and build mound of stone 5 ft. base 2 1/2 ft.
high around same, for boundary marking by roadside,
marked,
RESERVE on N. face.
 - 72.60 Road (dim) bears N. E. and S. W.
 - 75.25 Center of White Water Creek, 80 lks. wide, course S. W.
(Water 40 lks. wide, 8 ins. deep.)
 - 79.00 Leave flat, begin ascent bears N. 20° E. and S. W.
 - 80.14 At the 1/4 sec. cor., between Secs. 19 and 24, which
is a porphyry stone 8x8x8 ins. above ground, correct-
ly marked 1/4 on W. face, from which
A pine (original) 8 ins. diam., bears N. 63° E.
11 lks. dist., instead of N. 54° E., 11 lks.
as reported in notes of General Land Office,
I add RES above old markings of 1/4 S 19 B. T.
A new pine 10 ins. diam., bears N. 21°30' W.,
38 lks. dist., marked RES 1/4 S 24, B. T.,
and build mound of stone 2x1 ft. W. of corner.
Land, rolling and level.

359
CHIRICAHUA FORBST RESERVE BOUNDARY.

T. 19 S., R. 29 E.

Chains.

Soil, rocky, gravelly sandy loam, 3rd and 4th rates.
Timber, live oak, pine and juniper, dense oak brush.

- At the 1/4 Sec. Cor., between secs. 19 and 24, T. 19 S. Rgs. 29 and 30 E., I set off 18°21'45" N. on declination arc and at 3^m49^s before noon l.m.t., May 13, 1905, observe sun on meridian and obtain a reading of 31°45'30" on latitude arc.
- From 1/4 sec. cor., between secs. 19 and 24, I run South on random line, between secs. 19 and 24.
- 40.80 The W. C. to cor. of Secs. 19, 24, 25 and 30, bears W. 6 lks. dist., being reported as 1 ch. south of true point for corner.
- Thence returning to 1/4 Sec. Cor., between secs. 19 and 24, from which I run South 0°5' W. on true line between Secs. 19 and 24, along rocky west slope through timber and brush.
- .07 Set Iron U. S. Forest Reserve Boundary Post, No. 97, 22 ins. in ground, and build mound of stone 5 1/2 ft. base, 2 ft. high around same for boundary marking, and witness corner, marked
W. C. on top of cap.
1/4 S. 24 on W. side.
1/4 S. 19 on E. side.
RESERVE in N. W., N. E. and S. E. quadrants.
- 12.00 Cross backbone of low spur, bears N. E. and S. W., thence very gradual descent.
- 21.20 Wash 4 lks. wide, course S. 60° W.
- 31.00 Begin descent of 30 ft. bank bears N. 60° E. and S. 60° W.
- 32.30 Branch 20 lks. wide, course S. 60° W. (water 5 lks. wide, 3 ins. deep).
- 39.00 Center of Red Rock Creek, (dry), flat wash 2 ch. wide over boulders, course N. 80° W.
- 39.80 True point for corner to Secs. 19, 24, 25 and 30 falls on steep bank.
- 40.80 At the W. C. to corner of Secs. 19, 24, 25 and 30, 1.00 ch. S. of true point and is a sand stone 10x6x6 ins. above ground marked with 4 notches on N. and 2 notches on S. faces W. C. on N. W. face, (as "W. C." is in very small letters and indistinct, I mark an additional W. C. on E. face, from which
- A new pine, 8 ins. diam, bears N. 6° E., 30 lks. dist., marked RES W. C. T 19 S R 30 E, S 19, B. T.
- An original pine, 10 ins. diam., bears S. 62°30' E., 64 lks. dist., instead of S. 70° E., 64 lks. dist., as called for in notes of General Land Office. I add RES W. C. above old markings of "T 19 S R 30 E, S 20, B. T."
- A new pine 7 ins. diam., bears S. 42°45' W., 70 lks. dist., marked W. C. T 19 S R 29 E, S 25, B. T.
- An original pine 20 ins. diam., bears N. 31° W. 34 lks. dist., as reported, I add W. C. above old markings of "T 19 S R 29 E, S 24, B. T.
- Land rolling.
- Soil, stony and gravelly, 4th rate.
- Timber, oak, pine and juniper, oak brush.

T 19 S Rgs 29 and 30 E.

- 41.05 From true point for corner to sections 19, 24, 25 and 30 which is 1.00 ch. N. of W. C. I run South on random line between secs. 25 and 30. Intersect the 1/4 Sec. Cor. thence South on random line new measurements.

CHIRICAHUA FOREST RESERVE BOUNDARY.

T. 19 S., Rgs. 29 and 30 E.

- Chains.
- 39.16 Intersect the corner to Secs. 25, 30, 31 and 36, thence returning to the true point for corner to Secs. 19, 24, 25 and 30, from which I run
- 1.00 South on true line between secs. 25 and 30.
W. C. to secs. 19, 24, 25 and 30, previously described.
- 1.16 Set Iron U. S. Forest Reserve Boundary Post No. 98 22 ins. in ground and build mound of stone, 5 ft. base, 2 ft. high around same for witness corner (additional) marked
W. C. on top of cap.
T 19 S S 19 in N. E. quadrant.
R 30 E S 30 in S. E. quadrant.
S 25 in S. W. quadrant.
R 29 E S 24 in N. W. quadrant.
RESERVE in N. E. and S. E. quadrants, with 4 notches on N. and 2 on S. sides.
- 8.00 Ascending through timber and brush.
Wash, 8 lks. wide, course N. 30° E.
- 23.50 Top of ascent ridge bears N. 60° W and S. 30° E.
450 ft. ascent.
- 41.05 Thence gradual descent along W. slope.
The 1/4 sec. corner between secs. 25 and 30, which is granite 8x8x6 ins. above ground, correctly marked 1/4 on W. face, as called for, from which
A new juniper 20 ins. diam., bears S. 34° 30' E. 24 lks. dist., marked RES 1/4 S 30 B. T.
A new live oak 10 ins. diam., bears N. 89° 45' W. 20 lks. dist., marked 1/4 S 25, B. T.
Also old mound of stone 2x1 1/2 ft. W. of Cor.
Thence from this 1/4 sec. cor. I run
South on true line.
- 1.65 Draw 5 lks. wide, course N. W.
(Heads against N. and S. ridge 5 chs. to the S. E.)
Begin ascent bears N. W. and S. E.
- 10.00 Top of 200 ft. ascent on spur ridge, bears N. 80° W. and S. 80° E., joins to N. and S. ridge 5 chs. E., thence along W. slope.
- 19.00 Top of conglomerate rock ridge bears N. 20° E. and S. W.
- 20.00 Begin steep descent, bears N. E. and S. W.
- 31.00 Side hill wash 5 lks. wide, course S. E.
- 33.80 Wash 10 lks. wide, course S. 20° E.
- 38.21 Set Iron U. S. Forest Reserve Boundary Post No. 99, 26 ins. in ground and build mound of stone 5 ft. base 1 1/2 ft. high around same for boundary marking and witness corner, marked
W. C. on top of cap.
T 19 S S 30 in N. E. quadrant.
R 30 E S 31 in S. E. quadrant.
S 36 in S. W. quadrant.
R 29 E S 25 in N. W. quadrant.
RESERVE in N. E. and S. E. quadrants, with 5 notches on N. and 1 on S. faces.
- 39.00 Wash 5 lks. wide, course S. 10° W.
- 39.16 The corner to secs. 25, 30, 31 and 36 which is a granite stone 12x8x8 ins. above ground correctly marked 5 notches on N. and 1 on S. faces from which
A live oak (original) 10 ins. diam., bears N. 20° 30' E., 58 lks. dist., as reported, I add RES. above old markings of "T 19 S R 30 E S 30, B. T.
A new live oak, 8 ins. diam., bears S. 18° 30' E. 71 lks. dist., marked RES T 19 S R 30 E S 31, B. T.
A new pine, 8 ins. diam., bears S. 52° W., 51 lks. dist., marked T 19 S R 29 E S 36, B. T.
A new live oak, 10 ins. diam., bears N. 77° 15' W., 77 lks. dist., marked T. 19 S R 29 E S 25, B. T.
and build mound of stone 2 1/2 x 1 1/2 ft., 10 lks. west of Corner (across wash).
- Land, mountainous and broken.

CHIRICAHUA FOREST RESERVE BOUNDARY.

T 19 S., Rgs 29 and 30 E.

Chains. Soil, rocky and stony 4th rate.
Timber oak, pine and juniper.
May 13, 1905.

May 15, 1905.

- At the cor. to secs. 25, 30, 31 and 36, I set off 31°44'15" on latitude arc and 18°48'30" N. on declination arc and at 7 a.m., May 15th, establish meridian with solar.
- Thence I run
South on random line between secs. 31 and 36.
- 39.70 Intersect the 1/4 sec. cor.
Thence south on random line new measurement, from 1/4 sec. corner.
- 39.70 Intersect the corner to Tps. 19 and 20 S., Rgs. 29 and 30 E.
Thence returning to corner to sections 25, 30, 31 and 36, from which I run
South on true line between sections 25 and 30, gradually descending through timber and brush.
- 1.40 Wash, 5 lks. wide, course S. 20° E.
5.30 Same wash, course S. 20° W.
10.00 Draw 15 lks. wide, course S. 60° W.
Thence gradually ascending over rocky hills.
- 20.00 Draw 10 lks. wide, course W.
28.30 Top of low rocky ridge, bears N. 60° E. and S. 60° W.
Thence gradual descent.
- 39.70 The 1/4 sec. cor. between secs. 31 and 36 which is a sand stone 10x4x8 ins. above ground marked 1/4 on W. face with mound of stone W. of cor., as called for, from cor.
A juniper (original) 18 ins. diam., bears S. 63° W., 33 lks. dist., (instead of S. 67° W. 33 lks. as called for in notes of General Land Office), leave old markings 1/4 S 36, B.T.
A new juniper, 12 ins. diam., bears S. 18°45' E., 31 lks. dist., marked RES 1/4 S 31, B. T.
Thence from this 1/4 sec. cor. I run
South on true line.
- 2.30 Draw 20 lks. wide, course S. 70° W.
8.50 Cottonwood Creek, 50 lks. wide, 12 ft. banks, (water 10 lks. wide, 4 ins. deep), course N. 80° W.
Thence gradual rocky ascent.
- 10.10 Draw 15 lks. wide, course N. W.
22.20 Wash 5 lks. wide, course N. E.
31.20 Draw 15 lks. wide, course N. 30° E.
39.70 The cor. to Tps. 19 and 20 S., Rgs. 29 and 30 E., which is a sand stone 24 in. high 8x5 ins. at top, 18x14 ins. at base, set on flat rock in place and correctly marked with 6 notches on N., E., S. and W. faces, with mound of stone W. of corner, which I move to 3 ft. S. of Tp. corner and build 3 ft. base, 2 ft. high, from Tp. cor.
A new live oak, 5 ins. diam., bears N. 60°45' E., 38 lks. dist., marked RES. T 19 S R 30 E, S 31, B. T.
A new live oak, 6 ins. diam., bears S. 41° E., 48 lks. dist., marked RES. T. 20 S., R 30 E., S 6, B. T.
A new live oak, 6 ins. diam., bears S. 53° W., 29 lks. dist., marked T. 20 S R 29 E, S 1, B. T.
A new pine 10 ins. diam., bears N. 19°30' E., 60 lks. dist., marked T 19 S R 29 E S. 36, B. T.
- Small peak near mouth of Bucker Canyon bears N. 57° 50' W. about 3 miles dist.
High peak of Chiricahua Range bears N. 4°50' W. about 7 miles dist.

CHIRICAHUA FOREST RESERVE BOUNDARY.

T 19 S., Rgs. 29 and 30 E.

Chains

High round top peak of Chiricahua Range, bears N. 42° 25' E., about 4 1/2 miles dist.
 Land, rolling and hilly.
 Soil, rocky, stony and gravelly 4th rate.
 Timber, oak, juniper and pine oak brush.

General Description.

T. 19 S., Rgs. 29 E.

Eastern portion of Tp. is mountainous, western portion rolling foot hills, scattered timber and affords good grasses for stock grazing.
 Some settlement in Bucher Canyon, or White Water Creek which runs west through Tp. about 2 miles from south boundary. Some timber, pine and juniper, of commercial value in eastern portion of Tp.

Note.-

The surveys in Tps. 16, 17 and 18 S. R 29 E., as reported by General Land Office, I am informed were made by Theodore White.

His system was to make surveys in the valleys and low lands, and where made his work is exceptionally good, and to omit the foot hills and rough country altogether in fact but to write notes for a goodly margin of imaginary work around actual work. In his fictitious work the notes give no topography whatever and describe all corners (in timber and rocky country) with pits and mounds, no bearing trees.

His work is as clear a case of careless perjury as I have ever found. Mr. White, I am unofficially informed, now resides in Los Angeles, California.

T. 20 S. Rgs., 29 and 30 E.

From cor. of Tps. 19 and 20 S. Rgs. 29 and 30 E., I run

- run
 South on random line between secs. 1 and 6.
 40.85 1/4 Sec. corner bears East 27 lks. distant.
 Thence from 1/4 sec. Corner. (new measurements) I run
 South on a random line.
 40.15 Cor. to Secs. 1, 6, 7 and 12 bears 36 lks. W.
 Thence returning to corner of Tps. 19 and 20 S. Rgs.
 29 and 30 E., from which I run
 South 0°23' East on true line between secs. 1 and 6
 ascending, timber and brush.
 .31 Set Iron U. S. Forest Reserve Boundary Post No. 100,
 22 ins. in ground and build mound of stone 6 ft.
 base 2 ft. high around same for boundary marking
 and witness corner, marked
 W. C. on top of cap.
 T 19 S S 31 in N. E. quadrant.
 R 30 E S 6 in S. E. quadrant.
 T 20 S S 1 in S. W. quadrant.
 R 29 E S 36 in N. W. quadrant.
 RESERVE in N. E. and S. E. quadrants, with 6
 notches on N., E., S., and W. faces.
 5.80 Wash, 5 lks. wide, course N. W., ascent becomes steeper.
 24.00 Top of 500 ft. ascent ridge bears N. 80°W. and S. 60°E.
 Divide between White Water or Bucher Canyon on N. and
 Tex Canyon (draining to San Simon Valley S.E.) on
 S., thence descending bears N. 80°W. and S. E.
 Leave thick, enter very scattered timber.
 36.15 Draw 10 lks. wide, course S. 60°W., base of 100 ft.
 descent.
 Begin steep ascent, bears N. E. and S. W.

367

162

CHIRICAHUA FOREST RESERVE BOUNDARY.

T. 20 S., Rgs. 29 and 30 E.

- Chains.
40.85 The 1/4 Sec. Cor. between secs. 1 and 6, which is a Sand Stone 18x8x8 ins. correctly marked 1/4 on W. face and set 5 ins. in ground, I set same stone 12 ins. in ground and rebuild mound of stone 2 1/2 x 2 ft., W. of corner from which
- A new live oak, 10 ins. diam., bears S. 52°30'E., 56 lks. dist., marked RES 1/4 S 6, B. T.
 - A new pine, 8 ins. diam., bears N. 8°45' W., 56 lks. dist., marked 1/4 S 1, B. T.
- Thence from this 1/4 sec. corner, I run South 0°31'W. on true line.
- 5.00 Top of 150 ft. ascent on W. slope of spur extending S. 80°W. from rock cliff, which latter bears N. 80°E. about 15 chs. dist.
- 7.00 Begin descent, bears N. W. and E.
- 11.10 Draw 8 lks. wide, course S. 60° W.
- 16.50 Base of 150 ft. descent, begin ascent.
- Top of 100 ft. ascent on S. W. slope of spur, begin descent, bears E. and W.
- 31.50 Draw 10 lks. wide, course S. 30 W.
- Base of 250 ft. descent, begin ascent.

369
CHIRICAHUA FOREST RESERVE BOUNDARY.
T 20 S., Rgs. 29 and 30 E.

- Chains.
37.00 Top of 105 ft. ascent on W. slope
40.00 Set Iron U. S. Forest Reserve Boundary Post No. 101,
28 ins. in ground and build mound of stone, 5 ft.
base, 1 1/2 ft. high around same for boundary marking
and witness corner, marked
W. C. on top of cap.
T 20 S S 6 in N. E. quadrant.
R 30 E S 7 in S. E. quadrant.
S. 12 in S. W. quadrant.
R 29 E S 1 in N. W. quadrant.
RESERVE in N. E. and S. E. quadrants, with 1
notch on N. and 5 on S. sides.
- 40.15 The corner to Secs. 1, 6, 7 and 12 which is a Sand
Stone 14x12x4 ins. correctly marked with 1 notch
on N and 5 on S. faces set on top of ground in small
mound of stone, I set same stone 10 ins. in ground
and build mound of stone 2 1/2 x 2 ft. W. of corner.
No bearing trees available, pits impracticable.
Land, mountainous and broken.
Soil, rocky and stony 4th rate.
Timber, oak, juniper and pine, oak brush on W. slope.
-
- At the corner to Secs. 1, 6, 7 and 12, T 20 S., Rgs.
29 and 30 E., I set off 18°50'45" N. on declination
arc, and at 3^m49^s before noon l.m.t., May 15th, observe
sun on meridian and obtain reading of 31°42'30"
on latitude arc.
- From corner to Secs. 1, 6, 7, and 12, I run
South on random line between secs. 7 and 12.
- 40.75 1/4 Sec. Cor. bears 15 lks. E.
Thence from the 1/4 sec. cor., I run
South on a random line.
- 40.40 Corner of Secs. 7, 12, 13 and 18 bears 70 lks. W.
Thence returning to corner to secs. 1, 6, 7 and 12,
from which I run
South 0°13'E. on true line between secs. 7 and 12,
over rolling land, very scattering timber.
- 7.50 Wash, 5 lks. wide, course S. W.
12.40 Draw 15 lks. wide, course S. 10°E.
Base of 150 ft. descent, thence brushy.
- 20.60 Same draw, course S. 30° W.
Thence over rolling foot-hills.
Gradually descending.
- 23.30 Draw 10 lks. wide, course S. W.
27.05 Draw 10 lks. wide, course S. 20°W.
39.50 Draw 10 lks. wide, course S. 20° W.
40.75 The 1/4 sec. corner between secs. 7 and 12, which is
A lime stone 16x8x4 ins. correctly marked 1/4 on W.
face on top of ground in small pile of stone I set
same stone 10 ins. in ground and build mound of stone
2 1/2 ft. x 2 ft. W. of corner, from which
A new live oak 7 ins. diam., bears N. 29°30' E.
48 lks. dist., marked RES 1/4 S 7, B. T.
A new juniper 12 ins. diam., bears S. 22°30' W.,
54 lks. dist., marked 1/4 S. 12, B. T.
Thence from this 1/4 sec. corner, I run
South 0°59' W. on true line.
- 10.20 Draw 10 lks. wide, course S. 30°W.
40.28 Set Iron U. S. Forest Reserve Boundary Post No. 102,
28 ins. in ground and build mound of stone 4 1/2 ft.
base 1 1/2 ft. high around same for boundary marking
and witness corner marked
W. C. on top of cap.
T 20 S S 7 in N. E. quadrant.
R 30 E S 18 in S. E. quadrant.
S 13 in S. W. quadrant.
R 29 E S 12 in N. W. quadrant.
RESERVE in N. E. and S. E. quadrants, with 2
notches on N. and 4 on S. sides.
- 40.40 The Cor. to secs. 7, 12, 13 and 18, which is a
Lime Stone 8x6x4 ins. on top of ground in small pile

Chains. of stone, two old bearing trees dead, in evidence, not called for in notes of General Land Office, stone being undersize, I set in same place a Lime Stone 20x8x6 ins., 10 ins. in ground and build mound of stone 2x1 1/2 ft., W. of Cor., from which

A new double lieve oak 10 ins. diam., bears N. 34°30' E., 62 lks. dist., marked Res. T. 20 S. R 30 E., S 7, B. T.

A new live oak, 9 ins. diam., bears S. 37°E. 19 lks. dist., marked RES T 20 S, R 30E, S 18, B. T.

A new live oak, 6 ins. diam., bears 19°W., 91 lks. dist., marked T 20 S R 29 E S 13, B.T.

A new live oak, 6 ins. diam., bears N. 67°45'W. 89 lks. dist., marked T 20 S R 29E S 12, B.T.

Land, rolling.
Soil, rocky and sandy 4th rate.
Timber, ~~xxxxy~~ oak and juniper, oak and manzanita brush.
May 15, 1905.

May 16, 1905.

At the cor. to Secs. 7, 12, 13 and 18, I set off 31°43'45" on latitude arc and 19°02'30" N. on declination arc, and at 7 a.m. May 16th, establish meridian with solar.

Thence I run

South on random line between secs. 13 and 18.

40.25 1/4 sec. cor. bears 50 lks. E.

Thence from 1/4 sec. cor., I run

South on a random line.

40.15 Cor. to Secs. 13, 18, 19 and 24 bears 49 lks. W.

Thence returning to the corner of Secs. 7, 12, 13 and 18 from which I run

South 0°43' E. on true line between Secs. 13 and 18, over rolling land, gradually descending, timber and brush.

21.50 Enter bed of Dry Branch 20 lks. wide, course S. from N. 30°E.

23.50 Leave bed of Branch, course S. 30°W. from N.

26.30 Same Branch course S. E.

40.25 The 1/4 sec. corner between Secs. 13 and 18, which is a Sand Stone 8x5x1 ins. marked 1/4 on W. and set on top of ground on small pile of stone.

Two old bearing trees in evidence which do not appear in notes of General Land Office.

Stone being under size, I set in its stead a Sand Stone 18x8x6 ins., 12 ins. in ground for 1/4 sec. corner, marked 1/4 on W. face, from which

A new juniper, 14 ins. diam., bears S. 69°30' E. 47 lks. dist., marked RES 1/4 S 18, B. T.

A new live oak 6 ins. diam., bears N. 71°45'W., 28 lks. dist., marked 1/4 S 13, B.T.

Thence from this 1/4 Sec. Cor. I run.

South 0°42' W. on true line

4.25 Road bears N. 70°W. and S. 70°E.

4.50 Set juniper post 4 ft. long 4 ins. square, 18 ins. in ground and build mound of stone 3x1 1/2 ft. around same for boundary marking, marked RESERVE on E. face.

9.30 Center of wash 100 lks. wide.

Water 5 lks. wide, 3 ins. deep., course S. 60 E., "Tex Canyon Creek", thence gradual ascent, rolling foot hills

11.00 Draw 10 lks. wide, course N. E.

30.50 Wash 3 lks. wide, course N. 20°E.

4Q.15 The corner to Secs. 13, 18, 19 and 24 T. 20 S., Rgs. 29 and 30 S., which is place of beginning and previously described.

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Jno. P. Walker, United States Deputy Surveyor, do solemnly swear that, in pursuance of orders received from the Director of the U. S. Geological Survey, bearing date of the 3rd day of January, 1905, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the Director of the U. S. Geological Survey, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of Chiricahua Forest Reserve Boundary

of the Gila and Salt River meridians, 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 Director of the U. S. Geological Survey, in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Jno. P. Walker
United States Deputy Surveyor

Subscribed by said Jno. P. Walker, and sworn to before me }
this 5th day of June, 1905

W. B. Croop,
County Clerk.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL
OFFICE OF THE DIRECTOR, U. S. GEOLOGICAL SURVEY.
JUL 11 1906

The foregoing field notes of the survey of Chiricahua Forest Reserve Boundary

executed by Jno. P. Walker under his orders, dated January 3rd, 1905, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Chas. Walcott
Director, U. S. Geological Survey

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

Chas. Walcott
Director, U. S. Geological Survey

3113

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Jno. P. Walker
 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
Chiricahua Forest Reserve Boundary
 showing the respective capacities in which they acted:

<u>J. J. Elliot</u>	.....	Chainman.
<u>J. D. Budd</u>	.....	Chainman.
<u>Charles Jean</u>	.....	Moundman.
<u>Roy B. Reed</u>	.....	Moundman.
<u>Louis Warner, Jos Harrington</u>	.....	Arman.
<u>J. C. Stephens</u>	.....	Arman.
<u>J. N. Carmichael and Jos. Harrington.</u>	.....	Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Jno. P. Walker
 United States ~~Deputy~~ Surveyor, in surveying all
 those parts or portions of the Chiricahua Forest Reserve Boundary
 of the 11th
and Salt River meridian, Territory of Arizona, which are represented
 in the foregoing field notes as having been surveyed by him and under his direction; and that said survey
 has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the
 corner monuments established, according to the instructions furnished by the ~~United States~~ ~~Surveyor~~
~~General~~ Director, U. S. Geological Survey.

<u>J. J. Elliot</u>	.....	Chainman.
<u>J. D. Budd</u>	.....	Chainman.
<u>Charles Jean</u>	.....	Moundman.
<u>Roy B. Reed</u>	.....	Moundman.
<u>Louis Warner</u>	.....	Arman.
<u>J. C. Stephens</u>	.....	Arman.
<u>Jos. Harrington</u>	.....	Flagman and

Subscribed and sworn to before me this 10th
 day of May
1905; for Reed and J. N. Carmichael.
May 1st, 1905 for Harrington as arman
and Warner.

Jno. P. Walker,
 U. S. Surveyor