

1971

1.

AMENDED SOUTH BAY  
WHITE MOUNTAIN INDIAN RESERVATION.  
Philip Contzen.

1971

BOOK 1971

4-671

FIELD NOTES

1971

GENERAL LAND OFFICE.

1971

1971

BOOK 1971      BOOK 1972

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Preliminary Oaths of Assistants.

We, *Casimiro Barthelemy*  
 and *F. J. Van Sicker*,  
*R. S. Knowles*  
 do solemnly swear that we will well and faithfully  
 execute the duties of Chain Carriers; 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 distance to  
 all notable objects, and the true lengths of all lines  
 that we assist in measuring, to the best of our skill  
 and ability, and in accordance with instructions  
 given us, in the survey of the.....

*Amen de* of South Boundary  
 of the White Mountain  
 Indian Reservation

of the Gila and Salt River Base and Meridian in  
 the Territory of Arizona.

*C. Barthelemy* Chainman.  
*F. J. Van Sicker* Chainman.  
*R. S. Knowles* Chainman.

Chainman.

Subscribed and sworn before me, this *4<sup>th</sup>*  
 day of *January* 189*7*.

*Theodore D. Morris*  
 Notary Public.

my commission expires  
 [SEAL] Sept-12<sup>th</sup> A.D. 1900

We, *J. D. Cox, James Craig*  
*and J. L. Lee*

do solemnly swear that we will well and truly per-  
form the duties of *axeman and*

*flagman*  
in the establishment of corners and other duties,  
according to instructions given us, and to the best  
of our skill and ability, in the survey of the

*Amended South Boundary*  
*of the White Mountain*  
*Indian Reservations*

~~of the Gila and Salt River Base and Meridian, in~~  
the Territory of Arizona.

*J. D. Cox, Axeman*  
*James Craig, Axeman*  
*J. L. Lee, Flagman*



and sworn to before me this *H 14*

day *any* 189*8*

*Wesley D. Morris*  
Notary Public.  
*My commission expires*  
*Feb 1 - 13th 4 1911*

Field-Notes  
of the survey of the  
Amended South boundary  
— of the —  
White Mountain Indian Reservation  
in the  
Territory of Arizona  
Samuel Logan,  
U. S. Deputy Surveyor  
— surveyed by —  
Philip Conzess  
Compassman <sup>and</sup> U. S. Deputy Surveyor  
Under Contract #042  
Dated August 10. 1896

Survey commenced Jan. 4. 1898  
Survey completed Feb. 2. 1898

Survey commenced  
January 4. 1898 and  
executed with a  
Young and Sons light  
mountain transit  
No 5607, with a solar  
attachment. The  
horizontal limb is  
provided with two  
double verniers placed  
opposite to each other  
reading to single  
minutes of arc, which  
is also the least  
count of the verniers  
of the latitude and  
declination arcs.

The instrument was  
examined and tested

Amended South boundary of

on the true meridian  
at Tucson found  
correct, and was  
approved by the  
surveyor general  
for Arizona.

Examine the ad-  
justments of the  
transit, and correct  
<sup>collimation</sup> the level and colima-  
tion errors, then,  
to test the solar  
apparatus, by com-  
paring its indica-  
tions, resulting from  
solar observations  
made during a. m.,  
and p. m. hours,  
with a true meridian

The White Mountain Indian Reservation

determined by obser-  
vations on Polaris,

I proceed as follows:

At a point 5 chs.

due East of the central  
point of Goodwin

Springs; latitude

$33^{\circ} 3' N$ , longitude

$110^{\circ} 2' W$ . I set off

$33^{\circ} 3' N$  on the lat.

arc,  $22^{\circ} 37' S$  on the decl.

arc, and, at  $3^h 15^m$  p.m.,

l. m. t., determine

with the solar a

true meridian and

mark a point thereof

on a stone firmly set

in the ground 5 chs.

N. of cor.

January 4. 1898



Amended South boundary of the

Jan. 5. At 12<sup>h</sup> 13<sup>m</sup>  
a. m., l. m. t., I  
observe Polaris at  
western elongation,  
in accordance with  
Manual of Instructions,  
and mark a point  
in the line thus  
determined, on a plug  
driven in the ground,  
5 chs. N. of my station.

At 6<sup>a</sup>. m., l. m. t.,  
I lay off the azimuth  
of Polaris  $1^{\circ} 28'$ , to  
the east, and mark  
the True Meridian,  
thus determined,  
by cutting a small  
groove in the stone

## White Mountain Indian Reservation-

set January 4, on which the true meridian falls 0.3 ins. east of the mark determined by the solar. At 9<sup>h</sup> 10<sup>m</sup> 30<sup>s</sup> l. m. t., I set off 33° 3' on the lat. arc, 22° 33' on the decl. arc, and mark a point in the true meridian determined with the solar, by a cross on the stone already set 5 chs. N. of my station; this mark falls 0.3 ins. east of the true meridian established by the

Amended South boundary of the

Polaris observation.  
The solar apparatus,  
by p. m., and a. m.  
observations, defines  
positions for true  
meridians, respective-  
ly about  $0'16''$  east and  
west of the meridian  
established by the  
Polaris observations,  
therefore, I conclude  
that the adjustments  
of the instrument  
are satisfactory.  
The magnetic bearing  
of the true meridian,  
at  $9^h 15^m$  a<sup>m</sup>, is  $N 12^{\circ} 39'$   
W.; the angle thus  
determined, reduced

White Mountain Indian Reservation

by the table, page  
100, gives the mean  
mag. decl.  $12^{\circ}36'$  East

Preliminary to the  
establishment of  
the initial monument  
for the amended south  
boundary of the  
White Mountain  
Indian Reservation,  
I test the course  
of the east boundary  
of the White Mountain  
Indian Reservation  
and I find the course  
to be  $110^{\circ}10' W.$   $\frac{2}{3}$  of  $1.0^{\circ}10' E.$

I commence at a

Amended South boundary of the  
Chains

point on the east  
boundary of the  
White Mountain  
Indian Reservation  
9.30 chs. due East  
of the central point  
of Goodwin Spring  
and 14.45 chs.  $S0^{\circ}10'E$   
of the old flag staff  
of Camp Goodwin  
abandoned Military  
Reservation, thence  
I run  $S0^{\circ}10'E$  on  
a blank line

- 34.56 Sand Stone, marked  
E. B. S. C. I. R. 3 M.  
74.67 Granite Stone, marked  
E. B. S. C. I. R.  $3\frac{1}{2}$  M.  
80.00 Set a sandstone

## White Mountain Indian Reservation

Chairs

25 x 12 x 7 ins., 18 ins  
 in the ground for  
 initial monument,  
 amended south  
 boundary of the  
 White Mountain  
 Indian Reservation,  
 marked S. M. A. S.  
 B. W. M. S. R. S. E. Cor.  
 on N. W., and P. L.  
 on S. E. faces, and  
 raise a mound  
 of stone 5 ft. base,  
 2½ ft. high, 3 ft.  
 N. W. of cor., from where  
 A mesquite 5 ins. diam.  
 bears N 13¼° E. 199 lbs.  
 dist., marked S. M.  
 A. S. B. W. M. S. R. S. E.

Amended South boundary of the  
Chains

Cor. B. T.

A mesquite 5 ins. diam.  
bears  $N 34^{\circ} E$  220 lks. dist.  
marked S. M. A. S. B.,  
W. M. S. R., S. E. Cor. B. T.

A mesquite 4 ins. diam.  
bears  $S 75 \frac{3}{4}^{\circ} E$  99 lks.  
dist. marked S. M.

A. S. B. W. M. S. R., S. E.  
Cor. B. T.

A mesquite 4 ins. diam.  
bears  $S 28 \frac{3}{4}^{\circ} W$  30 lks.  
dist. marked S. M.

A. S. B. W. M. S. R., S. E.  
Cor. B. T.

Thence with flag  
on the highest point  
of Mount Turnbull  
(plainly in sight)

## White Mountain Indian Reservation

Chains

- I run.  $N. 79^{\circ} 21' W.$ ,  
 on a true line on  
 the first mile.  
 Over level land, through  
 scattering mesquite  
 undergrowth
- 9.00 Ascend
- 9.20 Top of ascent, 10 ft. high,  
 bears  $N.$  and  $S.$
- 14.72 Wood road, bears  
 $N.$  Easterly and  $S.$  Westerly
- 20.00 Wood road, bears  
 $N.$  Easterly and  $S.$  Westerly
- 31.15 Wood road,  $N.$  Easterly  
 and  $S.$  Westerly
- 35.80 Enter Goodwin wash,  
 course  $N.E.$
- 38.80 Leave Goodwin wash,  
 course  $N.E.$
- 39.30 Dry wash, 15 lbs. wide, course



Amended South boundary of the  
Chains

40.00

Set a sand stone  
 $20 \times 12 \times 10$  ins., 15 ins.  
 in the ground, for  
 $\frac{1}{2}$  Mile cor., marked  
 W. M. S. R. A. S. B. on  
 N.,  $\frac{1}{2}$  M. on E. and  
 P. L. on S. faces;  
 and raise a mound  
 of stone 5 ft. base,  
 $2\frac{1}{2}$  ft. high, 3 ft.  
 N. of cor., from which  
 A catsclaw 5 ins. diam.  
 bears  $S30^{\circ}E$ , 23 $\frac{1}{2}$  lks.  
 dist., marked W. M.  
 S. R. A. S. B.  $\frac{1}{2}$  M. B. T.  
 A mesquite 16 ins. diam.  
 bears  $S72^{\circ}E$ , 75 lks.  
 dist., marked W. M.  
 S. R. A. S. B.  $\frac{1}{2}$  M. B. T.

## White Mountain Indian Reservation

Chains

A Catsclaw 6 ins. diam  
 bears  $S 37\frac{1}{2}^{\circ} W.$ ,  $29\frac{1}{2}$   
 lks. dist; marked  
 W. M. I. R. Q. S. B.  $\frac{1}{2}$  M.  
 B. T.

A mesquite 6 ins. diam  
 bears  $N 74^{\circ} W.$   $21\frac{1}{2}$   
 lks. dist; marked  
 W. M. I. R. Q. S. B.  
 $\frac{1}{2}$  M. B. T.

47.30 Woodroad, bears  
 N and S, then N.W.

48.00 Enter dry wash,  
 course  $S 79^{\circ} E$

53.00 Leave dry wash,  
 course  $S 79^{\circ} E$ ; <sup>ascend</sup>

59.00 Top of mesa, bears  
 N.E. and S.W.

63.00 Leave mesquite

Amended South boundary of the  
Chains

- under growth, bears  
N. E. and S. W.
- 67.25 Leave mesa, bears  
N. E. and S. W., and  
descend
- 68.00 Foot of descent
- 68.25 Dry wash, 15 lks. wide,  
course N. E.
- 72.70 Dry wash, 10 lks. wide,  
course N. E.
- 73.50 Dry wash, 12 lks. wide,  
course N. E.
- 80.00 Dry wash, 20 lks.  
wide, course  $885^{\circ}$  E.  
and point for 1<sup>st</sup>  
Mile corner. —
- 81.00 Set a granite stone  
28 x 12 x 6 ins., 21 ins  
in the ground for

White Mountain Indian Reservation  
Claims

witness cor., to 1  
Mile cor., marked  
W.C. W. M. S. R. A. S. B.  
on N., 1 M. on E.,  
and P. S. on S. face,  
and raise a mound  
of stone, 5 ft. base,  
2½ ft. high, 3 ft.  
N. of cor., from which  
A mesquite 7 ins.  
diam., bears N 72½° E.  
114 lks. dist., marked  
W.C. - W. M. S. R. A. S. B.  
1 M. B. T.  
A Catclaw 6 ins. diam.  
bears S 16½° E. 90 lks.  
dist., marked W.C. -  
W. M. S. R. A. S. B.  
1 M. B. T.

Amended South boundary of the  
Chains

A mesquite, 5 ins. diam.  
bears  $S 86^{\circ} W$ , 170 lbs.  
dist. marked W.C. -  
W. M. S. R. A. S. B.  
1 M. B. T.

A mesquite 9 ins.  
diam., bears  $N 69 \frac{1}{4} W$ ,  
93 lbs. dist., marked  
W.C. - W. M. S. R. A. S. B.  
1 M. B. T.

Land level  $\frac{2}{3}$  of rolling  
Soil, gravelly loam, 2<sup>nd</sup> rate  
Timber, some mesquite  
and cottonwood.

Undergrowth, mesquite,  
catsclaw and greasewood.  
January 5, 1898

$N 79^{\circ} 21' W$ , on a true  
line on 2<sup>nd</sup> mile  
Over rolling land

## White Mountain Indian Reservation

Trains

through scattering  
undergrowth

- 9.50 Ascend
- 13.00 Top of ascent, bears  
N.E. and S.W.; descend
- 17.00 Foot of descent
- 17.90 Dry wash, 18 lks. wide,  
course N.E.
- 40.00 Set a sand stone  
24 x 12 x 7 ins., 18 ins.  
in the ground for  
1½ Mile Cor., marked  
W. M. I. R. A. S. B. on  
N., and 1½ M. on E.  
and P. & L. on S.  
faces, and raise  
a mound stone  
5 ft. base, 2½ ft.  
high, 3 ft. N. of Cor.;

Amended South boundary of the  
Chains

from which  
A mesquite, 7 ins. diam.  
bears  $N 8 \frac{1}{2}^{\circ} E$ , 131 lks.  
dist.; marked  
W. M. S. R. A. S. B.  $1 \frac{1}{2}$   
M. B. F.

A mesquite, 7 ins. diam.  
bears  $N 0^{\circ} 15' W$ , 76 lks.  
dist.; marked  
W. M. S. R. A. S. B.  $1 \frac{1}{2}$  W.  
B. F.

No other trees within  
limits

46.00 Dry wash, 30 lks. wide,  
course Easterly

50.00 Ascend

55.00 Top, bears E. and W.,  
and descend

59.10 Foot of descent, and

## White Mountain Indian Reservation

## Chains

- dry wash, 4 lks. wide,  
course E. and ascend
- 63.50 Top of ascent, bears  
N. E. and S. W., descend
- 76.50 Foot of descent,  
dry wash, 5 lks. wide,  
course Northerly
- 77.25 Ascend
- 80.00 Top of ascent,  
bears N. E. and S. W.  
Set a granite stone  
20x14x14 ins., 15 ins  
in the ground, for  
2 mile cor., marked  
W. M. I. R. A. S. B.  
on N., 2 M. on E.,  
and P. L. on S.  
faces; and raise  
a mound of



Amended South boundary of the  
Chains

stone, 3 ft. base,  
2 ft high, N. of cor.,  
from which

A scrub mesquite  
4 ins. diam, bears  
 $S68\frac{1}{2}^{\circ}E$ , 194 lks.  
dist, marked  
W. M. S. R. A. S. B.  
2 M. B. T.

A mesquite, 6 ins.  
diam, bears  $S24^{\circ}W$ ,  
416 lks. dist, marked  
W. M. S. R. A. S. B. 2 M. B. T.

A scrub mesquite  
4 ins. diam, bears  
 $N76\frac{3}{4}^{\circ}W$ , 115 lks. dist,  
marked W. M. S. R.  
A. S. <sup>B</sup> 2 M. B. T.

A scrub mesquite

White Mountain Indian Reservation  
Chains

5 ins. diam., bears  
N 30° W., 120 lks. dist.,  
marked W. M. I.

R. G. S. B. 2 M. B. I

Land rolling  
Soil gravelly loam,  
2<sup>nd</sup> and 3<sup>rd</sup> rate  
Timber, a few mes-  
quites, undergrowth,  
mesquite, catclaw  
and greasewood  
and cacti.

N 79° 21' W. on a true  
line on 3<sup>rd</sup> Mile

Over rolling land  
through scattering  
undergrowth

√ 10.00 Descend bears N 20° S. W.

Amended South boundary of the  
Chains

- 17.00 Foot of descent
- 17.50 Dry wash, 5 lks.  
wide, course N.E.
- 18.00 Ascend
- 24.15 Small gulch, 3 lks wide  
course N.E.
- 26.00 Top of ascent, bears  
N.E. and S.W., and descend
- 29.00 Foot of descent
- 29.40 Dry wash, 4 lks. wide,  
course N. N. E.
- 30.90 Dry wash, 4 lks. wide,  
course N. E.; ascend
- 31.20 Top of ascent, bears  
N. E. and S. W.; descend
- 38.80 Foot of descent and  
dry wash, 4 lks. wide,  
course N. E.
- 39.50 Ascend

White Mountain Indian Reservation

Chains

40.00

Set a granite stone  $26 \times 10 \times 8$  ins., 18 ins. in the ground for  $2\frac{1}{2}$  Mile Cor., marked W. M. I. R. A. S. B. on N.,  $2\frac{1}{2}$  M. on E., and P. Q. on S. faces, and raise a mound of stone 5 ft. base,  $2\frac{1}{2}$  ft high, 3 ft. N. of cor., from which a mesquite 8 ins. diam., bears  $S52\frac{1}{4}W$ . 70 lks. dist. marked W. M. I. R. A. S. B.  $2\frac{1}{2}$  M. B. T. No other trees within limits.

Amended South boundary of the  
Chains

- 40.50 Top of ascent, bears  
Easterly and Westerly
- 41.00 Descend
- 45.00 Foot of descent
- 45.20 Dry wash, 10 lks. wide,  
course Northerly and  
ascend
- 45.90 Top of ascent, bears  
N. N. E. and S. S. W.; descend
- 49.50 Foot of descent
- 49.60 Dry wash, 10 lks. wide,  
course Northerly
- 52.08 Dry wash, 10 lks. wide,  
course Northerly, and  
ascend
- 53.50 Top of ascent, bears  
N. N. E. and S. S. W.
- 57.00 Descend
- 57.50 Dry wash, 3 lks. wide,

White Mountain Indian Reservation  
Chains

- course N. N. E., and  
ascend
- 58.00 Top of ascent, bears  
N. N. E. and S. S. W., and  
descend
- 65.00 Foot of descent
- 65.80 Dry wash, 10 lks. wide,  
course Northerly
- 67.40 Dry wash, 12 lks. wide,  
course N. N. E., and  
ascend
- 68.00 Top of ascent, bears  
N. and S. and descend
- 74.98 Gulch, 3 lks. wide,  
course N. W
- 76.80 Foot of descent,  
dry wash, 10 lks. wide  
course N. N. W.,  
and ascend.

Amended South boundary of the  
Chains

- 78.00 Top of ascent bears  
Easterly and Westerly
- 80.00 Set a sand stone  
20x16x10 ins., 15 ins  
in the ground for  
3 Mile cor., marked  
W. M. I. R. A. S. B.  
on N., 3 M. on E., and  
P. I. on S. faces,  
and raise a mound  
of stone 5 ft. base, 2½  
ft. high, 3 ft. N. of cor.  
No trees within limits
- Land, rolling  
Soil, gravelly loam, 3<sup>rd</sup> rate  
No timber, undergrowth  
mesquite, catsclaw and  
greasewood.

White Mountain Indian Reservation  
Chains

N 79° 21' W. on a true  
line on 4<sup>th</sup> Mile

Over rolling land  
through scattering  
undergrowth

1.00 Descend

4.20 Foot of descent,  
and dry wash, 2 lks.  
wide, course N.E.,  
ascend

4.30 Top of South spur  
of ridge, descend

7.55 Foot of spur and  
dry wash, 2 lks. wide,  
course E., and ascend

9.90 Top of ascent, bears  
N. and S., descend

10.40 Foot of descent and  
dry wash, 2 lks. wide,



Amended South boundary of  
Chains

- course N. E.
- 10.50 Ascend
- 11.10 Top of ascent, bears  
N. and S.; descent
- 12.03 Dry wash, 2 lks. wide,  
course N. N. E.
- 12.05 Ascend
- 12.30 Top of ascent, bears  
N. and S., and descend
- 13.00 Foot of descent
- 13.75 Dry wash, 3 lks. wide,  
course Northerly
- 14.50 Dry wash, 6 lks. wide,  
course N. Easterly
- 20.00 Ascend
- 23.40 Top of ascent, bears  
N. E. and S. W.; descent
- 26.00 Foot of descent
- 26.25 Dry wash, 4 lks. wide,

White Mountain Indian Reservation

Chains

course N. E.

26.70 Ascend

29.00 Top of ascent, bears  
N. E. and S. W.

31.50 Descend

32.00 Foot of descent  
and dry wash,  
10 lbs. wide, course  
N. E.; ascend

34.00 Top of ascent,  
bears N. E. and S. W.

40.00 Set a quartzite  
stone  $27 \times 11 \times 7$  ins;  
20 ins. in the ground  
for  $3\frac{1}{2}$  Mile Cor.,  
marked U. M. S. R.

A. S. B. on N.,  $3\frac{1}{2}$  M.  
on E.; and P. L.  
on S. faces, and

Amended South boundary of the  
Chains

raise a mound of  
stone 5 ft. base, 2½ ft.  
high, 3 ft. N. of cor.,  
from which

A mesquite, 6 ins. diam.  
bears  $N 39\frac{1}{2}^{\circ} E$ , 168 lks.,  
dist. marked W. M.  
S. R. A. S. B. 3½ M.  
B. T.

A mesquite, 6 ins. diam.,  
bears  $N 68\frac{1}{2}^{\circ} W$ , 363 lks.  
dist. marked W. M.  
S. R. A. S. B. 3½ M. B. T.  
No other trees available.

42.10 Dry wash 2 lks. wide,  
course N. E.

47.00 Descend

47.63 Foot of descent and  
dry wash, 10 lks. wide,

## White Mountain Indian Reservation

Chains

course N. E., and  
ascend

48.25 Top of spur, bears  
N. E., descend

49.00 Foot of spur

49.50 Dry wash, 2 lks. wide,  
course N. E., ascend

50.00 Top, bears N. E. and S. W.

60.00 Gulch, 3 lks. wide, course  
N. N. E.

60.80 Gulch, 2 lks. wide, course  
N. E.

64.00 Descend

64.15 Gulch, 2 lks. wide,  
course N. W.

64.90 Foot of descent, and  
dry wash, 6 lks. wide,  
course N. E., and ascend

66.00 Top of ascent, bears

Amended South boundary of the  
Chains

bears N. E. and S. W.;  
descend

74.90 Foot of descent,  
dry wash, 25 lks. wide,  
course N. E.

75.30 Branch of same wash  
10 lks. wide, course N. E.

79.50 Set a granite  
stone  $22 \times 10 \times 8$  ins.,  
15 ins. in the ground  
for witness cor. to  
4 Mile cor., marked  
W. C. - W. M. S. R. A. S. B.  
on N., 4 M. on E.,  
and P. S. on S. faces,  
and raise a mound  
of stone 5 ft. base,  
 $2\frac{1}{2}$  ft. high, 3 ft.  
N. of cor., from which

## White Mountain Indian Reservation

Ruins

A mesquite 6 ins. diam.  
bears  $N 37\frac{1}{4}^{\circ} E$ , 92 lks.  
dist., marked W.C.

W. M. S. R. A. S. B.

4 M. B. T.

A mesquite 6 ins. diam.  
bears  $N 59^{\circ} E$ , 74 lks.  
dist., marked W.C.

W. M. S. R. A. S. B. 4 M.

B. T.

A mesquite 6 ins. diam.  
bears  $S 81\frac{1}{2}^{\circ} E$ , 123 lks.  
dist., marked W.C.

W. M. S. R. A. S. B. 4 M.

B. T.

A mesquite 8 ins.  
diam., bears  $S 76\frac{1}{2}^{\circ} W$   
74 lks. dist., marked

W. C. - W. M. S. R. A. S. B.

4 M. B. T.

Amended South boundary of the  
Chains

80.00

Dry wash, 15 lbs. wide,  
course N. E. and  
point for 4 Mile Cor.  
Land, rolling  
Soil, gravelly loam, 2<sup>nd</sup>  
and 3<sup>rd</sup> rate  
Timber, a few scattering  
mesquites; under-  
growth mesquite,  
catsclaw and grease-  
wood.

January 6. 1898

N 79° 21' W.; on a true  
line, on 5<sup>th</sup> Mile  
Over rolling land

5.75

Dry wash, 2 lbs. wide,  
course Easterly

6.00

Ascend

9.00

Top of ascent, bears

## White Mountain Indian Reservation

Chams

E. and W.; descend

11.00 Foot of descent

11.05 Dry wash, 2 lks. wide,  
course N.E.12.30 Dry wash, 20 lks. wide,  
course N.E.15.20 Trail, bears N.E.  $\frac{3}{4}$  N.W.16.83 Dry wash, 2 lks. wide,  
course N.E.

18.00 Ascend

19.30 Gulch, 2 lks. wide,  
course S.E.22.00 Top of ascent,  
bears N.E. and S.W.

26.00 Descend

27.00 Foot of descent  
and enter draw,  
course N.E.

27.10 Dry wash, 20 lks. wide,



Amended South boundary of the  
Chains

- course North Easterly
- 32.00 Dry wash, course  
S 79° E
- 35.00 Leave dry wash,  
course S. 79° E
- 36.00 Trail, bears N.W.  $\frac{2}{3}$  of S.E.
- 38.20 Same wash, 50 lbs.  
wide, course N.E.
- 39.00 Ascend S. slope  
of mesa
- 40.00 Set a granite stone  
20 x 16 x 10 ins., 18 ins.  
in the ground for  
4½ Mile cor., marked  
W. M. S. R. A. S. B.  
on N., 4½ M. on E.,  
and P. L. on S.  
faces, and raise  
a mound of stone

## White Mountain Indian Reservation

Chains

5 ft. base,  $2\frac{1}{2}$  ft.  
high, 3 ft. N. of cor,  
from which

A palo verde, 7 ins.  
diam, bears  $N 17\frac{1}{4}^{\circ} E$ ,  
11 lks. dist, marked  
W. M. I. R. A. S. B.

$4\frac{1}{2}$  M. B. T.

A palo verde, 6 ins.  
diam, bears  $S 41\frac{1}{2}^{\circ} W$   
36 lks. dist, marked  
W. M. I. R. A. S. B.

$4\frac{1}{2}$  M. B. T.

No other trees within  
limits

45.00 Top of mesa, bears  
E. and W.

52.00 Small gulch, 2 lks.  
wide, course N. N. E.

Amended South boundary of the  
Chains

- 53.75 Small gulch, 4 lks.  
wide, course Easterly
- 56.00 Descend 12 feet
- 57.35 Foot of descent.  
Gulch, 4 lks. wide,  
course N.; thence N.E
- 59.50 Ascend
- 65.00 Top of ascent, 30 ft  
high, bears E. and W.
- 76.50 Descend 4 ft
- 78.50 Foot of descent;  
and enter dry creek,  
course N.
- 80.00 Point for 5<sup>th</sup> Mile  
Cor. falls in creek
- 82.00 Set a granite stone  
29 x 10 x 7 ins., 21 ins  
in the ground for  
witness cor. to

White Mountain Indian Reservations  
chains

5 Mile Cor., marked W.C.  
W. M. I. R. A. S. B.  
on N., 5 M. on E.,  
and P. I. on S.,  
faces; and raise  
a mound of stone  
5 ft. base, 2½ ft.  
high, 3 ft. N. of  
cor.; from which  
A palo verde 5 ins.  
diam., bears  $S 18^{\circ} 14' E$   
206 lbs. dist., marked  
<sup>W.C.</sup>  
W. M. I. R. A. S. B. 5 M. P. I.  
No other trees within  
limits

Land, rolling  
Soil, gravelly loam; 3<sup>rd</sup>  
rate.

No timber; un-dergrowth

Amended South boundary of the  
Chains

palo verde, catsclaw  
and greasewood.  
scattering cacti.

January 7, 1898

N 79° 21' W. on a true  
line on 6<sup>th</sup> mile  
from 5 Mile cor. point

Over rolling land

30 Leave dry creek, course

1.50 N. E. wash, 4 lks. wide, course S. E.

2.00 Witness Cor. to 5 Mile Cor.

as heretofore described

2.20 Ascend spur of ridge

3.00 Top of spur 20 ft. high,  
bears N. W. and S. E.

3.50 Foot of descent,  
gulch 2 lks. wide, course  
S. E.

4.50 Ascend

White Mountain Indian Reservation

## Chains

- 14.00 Top of ascent 150 ft  
high bears N.E.  $\frac{3}{4}$  S.W.  
and descend
- 17.00 Foot of descent
- 21.25 Small gulch, 3 lbs.  
wide, course N.E.
- 21.50 Ascend
- 25.00 Top of ascent, 60 ft.  
high, bears N.E. and S.W.
- 26.00 Descend
- 32.50 Foot of descent; and  
small gulch 4 lbs  
wide, course N.E.
- 32.70 Ascend
- 35.30 Top of ascent, bears  
N.E. and S.W.; and  
descend
- 37.00 Foot of descent, 55 ft  
below top; and enter

Amended South boundary of the  
Chains

draw course N.E.

38.50 Set a gneiss stone  
26 x 12 x 6 ins., 18 ins.  
in the ground for  
witness cor. to  
5½ Mile cor., marked  
W.C. - W. M. S. R. A. S. B.  
on N., 5½ M. on E.,  
and P. S. on S. face,  
and raise a mound  
of stone 5 ft. base, 2½  
ft. high, 3 ft. N. of cor.,  
from which  
A Jano 7 ins. diam.,  
bears S 7½° E. 34 lks.  
dist., marked W.C. -  
W. M. S. R. A. S. B. 5½  
M. B. S.

A canutillo 6 ins. diam.

## White Mountain Indian Reservation

## Chains

bears  $S 68^{\circ} 4' W$ , 213

lbs. dist. marked

W. C. - W. M. S. R. A. S.

B.  $5\frac{1}{2}$  M. B. T.

No other trees within  
limits.

39.00 Enter dry wash,  
course N.

40.00 Point for  $5\frac{1}{2}$  Mile Cr.

39.72 Trail, bears N. N. E  $\frac{2}{3}$  of S. S. W.

40.70 Leave dry wash course N. E.

42.50 Trail, bears Easterly  
and Westerly

43.00 Enter dry wash,  
course N.

44.30 Leave dry wash,  
course N. E.

45.00 Ascend

45.50 Small gulch, 4 lbs. wide,



Amended South boundary of the  
Chains

- course S. E
- 47.00 Top of ascent, bears  
E. and W.; descend
- 48.70 Foot of descent
- 49.00 Ascend N. Spur of  
ridge
- 49.60 Top of spur, descend
- 50.00 Foot of spur.
- 50.10 Small gulch 4 lbs. wide  
course Easterly
- 50.50 Ascend
- 56.00 Top of ascent, 90 ft.  
high bears N. E. and W.  
and descend
- 61.50 Foot of descent
- 69.90 Enter dry wash, course  
Northerly
- 71.50 Leave dry wash, course  
Northerly
- 73.50 Ascend along S. Slope

White Mountain Indian Reservation  
Chains

of ridge

80.00

Set a granite  
stone  $26 \times 13 \times 8$  ins.,  
19 ins. in the ground  
for 6 Mile cor.,  
marked W. M. I. R.  
A. S. B. on N., 6 M.  
on E., and P. L. on  
S. faces; from which  
A cedar 14 ins. diam.,  
bears  $S 33\frac{1}{4}^{\circ} E. 437$   
lks. dist., marked  
W. M. I. R. A. S. B. 6 M. B. S.  
A cedar 30 ins. diam.,  
bears  $S 42^{\circ} E. 491$  lks.  
dist., marked W. M.  
I. R. A. S. B. 6 M. B. S.  
No other trees available  
and raise a mound

Amended South boundary of  
Chains

of stone 5 ft. base,  
2½ ft. high, 3 ft.  
N. of cor.

Land rolling  
Soil gravelly loam;  
3<sup>rd</sup> and 4<sup>th</sup> rate  
Timber, a few  
scattering cedars,  
under growth palo  
verde, cats claw and  
canutillo.

Cacti, nopal and yucca

N 79° 21' W. on a true  
line, on 7<sup>th</sup> Mile

Over rolling land;  
3.50 <sup>ascending</sup> Indications of placer  
gold

4.50 Top of ridge, bears

The White Mountain Indian Reservation

Chains

Easterly and Westerly,  
and descend along  
N. Slope of ridge

20.50 Foot of descent, and  
enter draw, course  
N. Easterly

24.50 Enter dry wash, course  
Easterly

26.50 Leave dry wash, course  
Easterly

27.50 Ascend

29.50 Top of ascent, bears  
N. E. and S. W.; and  
descend

31.45 Foot of descent

31.50 Gulch, 4 lks. wide,  
course E.

32.00 Ascend

40.00 Set a granite stone

Amended South boundary of the  
White Mountain Indian Reservation  
Chains

20x16x7 ins., 15 ins. in  
the ground for  $6\frac{1}{2}$   
mile cor., marked  
M. M. S. R. A. S. B. on  
N.,  $6\frac{1}{2}$  M. on E., and  
P. L. on S. faces;  
and raise a mound  
of stone 5 ft. base,  
 $2\frac{1}{2}$  ft. high, 3 ft.  
N. of cor.

No trees within limits.

- 42.00 Top of ascent, bears  
 $N79^{\circ}W.$  and  $S79^{\circ}E.$
- 48.00 Descend
- 53.50 Foot of ridge
- 53.80 Gulch, 2 lks. wide,  
course S. E.
- 58.10 Gulch, 10 lks. wide,  
course S