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May 21-1891

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Book No 3.
4-671

1967

1967

FIELD NOTES

~~GENERAL LAND OFFICE.~~

East Boundary, of
the Mountain Indian
Reservation.

By John C. Smith-D.S.

Contract No 12.

May, 16, 1890.

1967

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Field Notes of the

Survey of the

West Boundary of the
White Mt. Indian Reservation

By John C. Smith U.S. D.S.

Under contract ^{370.12} dated May 16 1890Survey commenced June 18 1890
" completed Aug. 6 1890

For preliminary notes see Book 1

Chains West Boundary

S. $12^{\circ} 18' E.$ on 42nd Mill.
 Va. $12^{\circ} 15' E.$

Ascending.

- 14.00 Top of ridge to E. or W. about
 135 ft. high. Descend.
- 32.50 Foot ridge. Gully 12 tho.
 mile co. S.H. Ascend.
- 40.00 Set a granite stone
 $22 \times 14 \times 9$ ins. 14 ins. in
 the ground for $4\frac{1}{2}$ mile
 cor. marked N.M.L.R.
 N.B. $4\frac{1}{2}$ M. and raised
 a mound of stone
 $1\frac{1}{2}$ ft. high $3\frac{1}{2}$ ft. base
 along side.
- No trees within limits
- 42.00 Top N. point of ridge.
 Extends E. about 75 ft. high
 Descend to Salt River
- 76.50 Right Bank Salt River co. N.

Thames Valley Mt. Ind. Reservation

79.15 Left Bank Salt-Pier. Co. N.
 Occur

7000 Set a square with 18x16x8 ins.
 12 ins. in the ground for.

42 miles on road. N.W.

I.R. N.B. 42 W and raised
 a mound of stone 2¹/₂
 ft. high 5 ft. base alongside
 No trees within limits.

Surface mountainous
 Soil 4¹/₂ rats

Grass poor.

Va. 12° 05' E.

July 25th 1890

Chamie West Boundary

Point $12^{\circ}18'E$. on 43^{rd} Mile
 Va. $12^{\circ}05'E$.

Ascending.

11.00 Top of bluff to. E. & W. About
 800 ft. above river. There
 along W. slope of deep, rocky
 almost impassable cañon

40.00 Set a square rock
 $18 \times 18 \times 8$ ins. 12 ins. in the
 ground for. $42\frac{1}{2}$ mile cor.
 marked N. M. S. R. N. O. B.
 $42\frac{1}{2}$ M. and raised
 a mound of stone
 $1\frac{1}{2}$ ft. high $3\frac{1}{2}$ ft. base
 alongside.

Descend into Salt River
 Cañon, abruptly.

56.00 Bottom cañon and
 left bank Salt River.
 Co. D.

Chavis Mts. Mt. Ind. Rearr. 00 time.

63.75 Leave river co. S. 10° N.

ascend from cañon which
is about 2500 ft. lower
than highest points of Bluffs
to the E. and N.

80.00 Set a quartz rock 15x15x9 ins
on a rock with mound of
stone around it as it is
impossible to dig a hole for it.
For 43 mile cr. marked
N. M. & O. N. B. 43 M.

and raised a mound
of stone 2½ ft. high 5 ft.
base along side.

No trees within limits.

Some small springs about 600 N.

Surface cañons and mountains
and 4th rats and rocks.

Scattering Forest
Va. 12° S' E.

Chain West Boundary

S. $12^{\circ} 18' E.$ on 44th Mile.Va. $12^{\circ} 45' E.$

Accordingly.

13.50

Top of ^{white} quartz ledge, which extends for miles E. & W. and is known as the "Broncho Ledge", it is very conspicuous about 100 ft. wide, about 1200 ft. above river.

26.70

Descent into cañon
Bottom cañon ca. W.
ascend.

38.00

Leave cañon ca. W.

High peak about 30 chs. E. Descent

40.00

Set a slab stone
15x12x12 ins. 10 ins. in the
ground for 43 $\frac{1}{2}$ mile cor.
marked N. M. I. R.
N. B. 43 $\frac{1}{2}$ M., and missed

Chains White Mt. Land Reservation

a mound of stone
 1/2 ft. high 3 1/2 ft. base
 along side.

No trees within limits.

Ascend

44.50 Bottom cañon about 200 ft
 deep co. N. ascend.

56.00 Top S. side cañon bank
 then ^{descending} along N. slope of
 main cañon about 800 ft about.

76.75 Bottom main cañon, wash about
 1/4 mi. with co. N. N. ascend

80.00 Set a date stone 18x13x12 ins.
 12 ins. in the ground
 for 44 wide cor. marked
 N. W. L. R. N. B. 44 M.
 and raised a mound
 of stone 2 1/2 ft. high 5 ft.
 base along side.
 No trees within limits.

Chain West Boundary

Surface mountainous
No soil scarcely.
Scattering brush -
Va. 12° 05' E.

Chains Walki Mt. Ind. Reservations.

D. $12^{\circ}18'E$. on 45^{th} Mile
 Va. $12^{\circ}05'E$.

Ascend mountain.

21.25 Top of round peak on
 mt. side, still ascend.

40.00 Set a granite stone $20 \times 16 \times 7$ ins.
 13 ins. in the ground for
 $44\frac{1}{2}$ mile cor. marked

N. M. S. O. N. O. $44\frac{1}{2}$ M.
 and raised a mound of
 stone $1\frac{1}{2}$ ft. high $3\frac{1}{2}$ ft. base
 alongside.

No trees within limits.

66.00 Top mt. to E. + N. about 2500
 ft. above the country to the N.
 then over rough granite hills.

80.00 Set a granite stone $20 \times 16 \times 10$ ins.
 13 ins. in the ground for
 45 mile cor. marked.

N. M. S. O. N. O. 45 M.

7
Ch
Chains West Boundary

dig pits 24x18x12 ins. on
line and at right angles
to it. 6 ft. dist. and
raised a mound of earth
2 1/2 ft. high 5 ft. tan alongside
No trees within limits.

Surface unmountainous ^{rolling}
Soil 3rd rate

Catclaw and oak brush

No. 13° 30' E.

Chains White Mt. Ind. Reservation

S. $12^{\circ} 18' E.$ on 46^{th} Mile.

Ta. $13^{\circ} 30' E.$

Over granite hills

40.00 Set a granite stone $16 \times 13 \times 10$ ins.
10 ins. in the ground for
 $45\frac{1}{2}$ mile cor. marked.

N. M. I. R. N. B. $45\frac{1}{2}$ M.

Dug pits $24 \times 18 \times 12$ ins.

on line 6 ft. dist. from
stone and raised a

mound of earth $1\frac{1}{2}$
ft. high $3\frac{1}{2}$ ft. base
alongside.

No trees within limits

80.00 Set a granite stone $15 \times 12 \times 12$
ins. 10 ins. in the ground
for 46 mile cor. marked

N. M. I. R. N. B. 46 M.

dug pits $24 \times 18 \times 12$ ins.

on line and at right angles

7. Chains Thud Boundary

to it: 6 ft. dist: and
raised a mound of
earth 2 1/2 ft. high 5 ft.
wide alongside

No trees within limits

Surface rolling.

Soil 3rd rate

Dark brown

Va. 13° E.

Chains N.W. Mt. Ind. Reservations.

S. $12^{\circ}18'E$. on 47th Mile
 Va $13^{\circ}E$.

Over rolling country.

28.00 Wash 20 lbs. wide co. N.E.

29.00 Same wash 20 lbs. wide co. N.W.

40.00 Set a granite stone $15 \times 12 \times 11$ ins.
 10 ins. in the ground for
 46 $\frac{1}{2}$ mile cor. marked.

N. M. & O. N. O. 46 $\frac{1}{2}$ M., dug
 pits $24 \times 18 \times 12$ ins. on line 6 ft.
 dist, and raised a mound
 of earth $1\frac{1}{2}$ ft. high. $3\frac{1}{2}$ ft.
 base alongside

No trees within limits.

80.00 Set a granite stone $21 \times 15 \times 12$ ins.
 14 ins. in the ground
 for 47 mile cor. marked N. M.
 & O. N. O. 47 M. and raised
 a mound of stone $2\frac{1}{2}$ ft.
 high 5 ft. base alongside.

7. Chino West Boundary

No trees neither plants.

Surface rolling and hilly.

Soil 3rd rate

Cattle and wolf track

No grass.

7a. 12°40' E.

July 26th 1890

Chain White Mt. Ind. Reservation,

D. $12^{\circ}18'E$. on 48^{th} Mile

N. $12^{\circ}40'E$.

Ascending gradually over small hills

4000 Small 75ths wide or. n.e. and set a granite stone $18 \times 14 \times 8$ ins 12 ins. in the ground for $47\frac{1}{2}$ mile cor. marked N. M. I. O. N. B. $47\frac{1}{2}$ M. and raised a mound of stone $1\frac{1}{2}$ ft. high $3\frac{1}{2}$ ft. long along side.

No trees within limits.

Ascend over N. slope peak.

5000 Top N. slope about 150 ft. above wash, Drowned.

8000 Foot of slope. on E. & N. ascend
Set a granite stone $20 \times 12 \times 12$ ins. 13 ins. in the ground for 48 miles. cor. marked

7. Chains. West Boundary

N. M. L. R. W. B. 487M.

dry pits 24x18x12 ins. on
line and at right angles
to it - 6 ft. dist. and
raised a mound of
soil $2\frac{1}{2}$ ft. high 5 ft.
wide alongside.

No trees within limits

Surface lumpy

Soil 4th rate

No grass

Va. $12^{\circ}15' E.$

Chaco Mts. Nat. Land Reservation.

D. $12^{\circ}18'E.$ on 49^{th} Mile.

Va. $12^{\circ}15'E.$

Ascend

10.00 Top of hill (round top) about
900 ft. high. Descend

18.00 Ascend high ridge in S77.5W E.

36.50 Top Mt. M.S. about 1500 ft. high
above along E. slope

49.00 Set a quartzite rock $16 \times 15 \times 9$ ins.

11 ins. in the ground for
 $48\frac{1}{2}$ mile cor. marked

N.M.L.R. N.B. $48\frac{1}{2}$ M.

and raised a mound of
1 1/2 ft. high $3\frac{1}{2}$ ft. across
alongside.

Stems
No trees within limits.

74.00 Descend to point ridge.

70.00 Set a quartzite rock $26 \times 13 \times$

7 ins. 17 ins. in the ground
for 49 mile cor. marked

N.M.L.R. N.B. 49 M.

7
Chains West Boundary

and raised a mound
of stone $2\frac{1}{2}$ ft. high
5 ft. base. along side.

No trees within limits.

Surface mountainous
Soil 4th note

Dark brush

No. 12°15'E.

Chains Milli Mt. Ind. Reservation

D. $12^{\circ} 18' E$ on 50th Mile.

Va. $12^{\circ} 15' E$.

Descent

1750 Wash 50th Mile. side co. N.E.

Ascent

4000 Set a quartzite rock 17x14x9 ins.

11 ins. in the ground for

49 $\frac{1}{2}$ mile cor. marked

N.M.I. Q. N. Q. 49 $\frac{1}{2}$ M.

and raised a mound

of stone 1 $\frac{1}{2}$ ft. high 5 $\frac{1}{2}$

base alongside

From which

All rock tree 12 ins. in diam.

Co. N. $52^{\circ} E$. 57th Mile dist.

marked. N.M.I. Q. N. Q.

49 $\frac{1}{2}$ M. B.T.

All rock tree 10 ins. in diam.

Co. S. $50^{\circ} E$. 89th Mile. dist. marked

N.M.I. Q. N. Q. 49 $\frac{1}{2}$ M. B.T.

Chains West Boundary

Ascend to higher mt.

8000 Set a quartzite ^{rock} 24x12x10 ins.
16 ins. in the ground
for 50 mile cor. marked
N. M. L. R. N. B. 50M. and
raised a mound of
stone 2 1/2 ft. high 5 ft. base
alongside.

No trees rather scrub
Surface mountainous
Soil ~~fall~~ rot

Dense oak brush
Scattering trees of Juniper
and oak. Sycamore
in washes.

Va. 12° 15' E.

Chavis White Mt. Land Reservation

D. $12^{\circ} 18' E.$ on $5\frac{1}{2}$ mile

Va. $12^{\circ} 15' E.$

Ascend

7.88 Top Touch on Mt. h. $780^{\circ} E. + N.$
about 2500 ft. high. a stone
monument h. E. 8th.
Thru over touch

26.00 Top highest point of mts.
h. E. + N. about 2600 ft. high
Descend to plateau.

36.00 Descend from plateau h. E. + N.

40.00 Set a sand stone $18 \times 18 \times 10$ ins.
12 ins. in the ground
for $50\frac{1}{2}$ mile cor. marked
N. M. L. A. N. B. $50\frac{1}{2}$ M.
and raised a mound
of stone $2\frac{1}{2}$ ft. high $3\frac{1}{2}$
ft. Pass alongside
Notrus within limits
Descending.

7
Chains West Boundary

79. Small spring on line
- 79.80 Foot Mt. W. to E. N. Wash 25
Mn side C. E.
- 80.00 Granite rock in place $4\frac{1}{2} \times 3\frac{1}{2} \times 3$ ft.
above ground ^{for .51 mile cor} marked with
a cross (+) at exact cor. point.
and N. M. & O. N. B. 51 M.
and raised a mound of
stone 2 $\frac{1}{2}$ ft. high 5 ft. base
alongside.

From which

- A Juniper tree 29 ins. in diam.
W. N. 89° E. 124 lbs. dist. marked
N. M. & O. N. B. 51 M. B. T.
- An oak tree 10 ins. in diam.
W. S. 71° E. 64 lbs. dist.
marked, N. M. & O.
N. B. 51 M. B. T.
- An oak tree 19 ins. in diam.
W. S. 35° E. 50 lbs. dist.

Chairs Mt. Ind. Reservation.

marked N. M. I. A.

N. B. 51 M. B. T.

A sycamore tree 5 ins. in
diam. br. N. 13° N. 38 Nbs
dist. marked. N. M.

I. A. N. B. 51 M. B. T.

Surface mountainous
soil 2nd + 3rd rate

Scattered Juniper, oak and
sycamore trees

Pine forest.

Pa. 12° 15' E.

July 28th 1890

7. Chains Nest Boundary

P. $12^{\circ} 18' E$, on 5th 2nd Mile

Ya. $12^{\circ} 15' E$.

Ascend E. point of hill.

25.00 Top E. point ~~of~~ E. & N. about
100 ft. high descent

27.75 Foot E. point of hill. Gully 35 lbs.
wide cor. E. ascend

40.00 Set a quartzite rock 20 x 10 x 10 ins.
13 ins. in the ground for $5\frac{1}{2}$
mils cor. marked N. M. & R
N. B. $5\frac{1}{2}$ M. and raised a
mound of stone $1\frac{1}{2}$ ft. high
 $3\frac{1}{2}$ ft. base elongate.

From which

As well ^{tree} 15 ins. in diam.

br. $D. 21\frac{1}{2}^{\circ} N$. 58 Mils dist.

marked N. M. & R. N. B.

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

No other trees within limits

43.00 Top E. point hill br. E. & N. about

Chains White Mt. Land Reservation

200 ft. high and descend

54.00 Gulch 6 Mts. wide cor. E. ascend

74.00 Road to S.E. $\frac{3}{4}$ N. to Mr. Millerville80.00 Put a quartz rock 15 X 15 X 15 ins.
10 ins. in the ground for 52 miles

cor. marked N. M. L. A. N. B.

52 M. and raised a mound
of stone 2 1/2 ft. high 5 ft.

base along side,

From which

An oak tree 10 ins. in diam. to

N. 22° E. 117 Mts. dist. marked

N. M. L. A. N. B. 52 M. B. J.

An oak tree 9 ins. in diam. to

N. 46° N. 72 Mts. dist. marked

N. M. L. A. N. B. 52 M. B. J.

No other trees of size within limits

Surface mountainous

Soil $\frac{1}{2}$ to 1 ft.

Scattered trees & brush

Va. 11° 30' E.

7
Chains West Boundary

D. $12^{\circ}18'E$ m. $53\frac{1}{2}$ mile.

Va. $11^{\circ}30'E$.

Ascend over E. slope hill.

21.00 Top E. point of hill about 200 ft. high. Top of hill about 500 ft. higher than line and $\frac{1}{2}$ mile N.

Descent

40.00 Set a quartzite rod $18 \times 18 \times 8$ ins. 12 ins. in the ground for $52\frac{1}{2}$ mile cor. marked

N. M. S. A. N. O. $52\frac{1}{2}$ m. and raised a mound of stone $1\frac{1}{2}$ ft. high. $3\frac{1}{2}$ ft. base alongside. No trees within limits.

45.10 Hood road to E. & N. To Mr. Miller's mine.

50.00 Foot E. slope to E. & N. ascend mesa.

59.00 Top N. side mesa to.

Chains Mt. Mt. Ind. Reservation

E. & W. ^{about 25 ft. high,} thence over same.

63.00 Descend from mesa
to E. & W.

80.00 Set a granite stone
30 x 15 x 9 ins. 20 ins. in
the ground for 53 mile
cor. marked N. M.

L. R. Ft. B. 53 M. and
raised a mound of
stone 2 1/2 ft. high 5 ft.
base alongside
No trees within limits
On N. side gulch 6 ft. wide
loc. 2 ft.

Surface rough & mountainous
Soil 3rd rate

Grass fair

Scattering catts.

Va, 12° 45' E.

7
Chains West Boundary

O. $12^{\circ} 18' E.$ on $54^{\frac{1}{2}}$ Mile

Va. $12^{\circ} 45' E.$

Ascend.

8.50 Foot of mesa to E. N.

" Wash 50 lbs. wide co. E.

21.20 " 10 " " " "

27.50 " 40 " " " "

40.00 Put a 5 sand stone $17 \times 13 \times 10$ in

11 ins. in the ground

for $53\frac{1}{2}$ wide co. marked

N. M. L. P. N. B. $53\frac{1}{2}$ M.

and raised a mound of
stone $1\frac{1}{2}$ ft. high $3\frac{1}{2}$ ft. base
alongside.

No trees within limits.

44.60 Wash 15 lbs. wide co. E. ascend

57.00 Top of mesa to E. N. 125 ft.
high; over sand

62.00 Descend from mesa to E. N.

73.75 Foot, Wash. 12 lbs. wide co. E.

Chains White Mt. Ind. Reclamation

80.00 Set a square root $17 \times 14 \times 12$
 ins. 11 ins. in the ground
 for 54 mile cor. marked
 N. M. I. R. N. B. 54 4M,
 and raised a mound
 of stone $2\frac{1}{2}$ ft. high 5 ft.
 base alongside.

No trees within limits.

Surface mountainous.

Pod Ford. rot.

No grass.

To. $12^{\circ} 45' E$.

7. Chains West Boundary

S. $12^{\circ}18'E$. on 55th Mile
Va. $12^{\circ}45'E$.

Descending.

.15 Wash 20 lbs. wide co. E.
Ascend.

12.00 Top of mesa ^{about 200 ft. high.} to E. + W.

18.00 Descend from mesa to
E. and W.

27.80 Foot, Wash 20 lbs. wide co. E.
Ascend

37.00 Top E. end of spur about 50 ft.
high, and descend.

40.00 Set a quartzite rock $16 \times 13 \times 10$ in.
11 ins. in the ground for
54 $\frac{1}{2}$ mile con. marked
N. M. I. B. N. B. 54 $\frac{1}{2}$ M.

and raised a mound
of stone $1\frac{1}{2}$ ft. high $3\frac{1}{2}$
ft. base. along side.

No trees within limits

Pinus Miller Mt. Ind. Reservation

- 46.85 Foot spur. Wash 10 hrs. wide
co. E.
- 290 Wash 20 hrs wide co. N.E.
Spring about 5 hrs. N.E. in
wash; ascend -
- 60.00 Top mesa to E. & N. about 150 ft.
high.
- 8.75 Road from Globe to Mr. Miller
Trs. N.E. and S.W.
Descend from mesa to E & N.
- 70.00 Set a quartzite rock 24x
18x7 ins. 16 ins. in the
ground for 55 inch core
marked, N. M. I. O.
N. O. 55 M. and
raised a mound of straw
2 1/2 ft. high 5 ft. base
alongside.
From which
a pine tree 15 ins. in diam.

Chains Nest Boundary

hrs. P. 2⁰ N. 195 hrs. dist.

month. N. M. I. R. N. B.

55 M. B. S.

No other trees within limits

Surface mountainous

Soil 3rd rate

Mangrove & oak brush

Scattering oak and pine trees.

Pa. 12° 30' E.

Chain White Mt. Ind. Reservoir.

D. $12^{\circ} 18' E$ on 56th Mile

To. $12^{\circ} 30' E$.

Descend

150 Foot mesa, W. E. N. Gulch
10 hrs. ride co. S. C.

Ascend

1500 Top E. slope hill about
200 ft. high; Descend.

2100 Foot hill W. E. N. Gulch 15 hrs.
ride co. E. ascend

4000 Set a sand stem $24 \times 24 \times 10$
ins. 16 ins. in the ground
for $55\frac{1}{2}$ miles on marked
N. M. S. R. N. B. $55\frac{1}{2}$ M.
and raised a mound
of stem $1\frac{1}{2}$ ft. high. $3\frac{1}{2}$ ft.
base alongside.

No trees within limits.

6350 Top of Chromo. Butte or Peak
extends about $2\frac{1}{2}$ miles East.

Chains West Boundary

6700 ft. above sea level

I additionally mark the
cor. stone P. I. 20°39' R.

55.79 m. also the bearing
true 55.79 m.

From the cor. stone

a High peak br. N. 12° E.

a castellated peak br. N. 35° E.

" " " N. 41° E.

High point Graham Mts br. S. 40½° E.

High point Osage Mts br. S. 29° 20' N.

High point Apache Mts br. N. 51° 15' N.

After taking an observation
on Polaris and obtaining
a true Meridian. I turn off
8° 21' to the West which is the
return course as deduced
from the random line.

July 29th 1890

Davis White Mt. Ind. Reservation

$28^{\circ}21'N$ on 56th mile

$74.625^{\circ}E$.

The great change in the Variation is caused by the large amount of iron in the rocks. A few rods from the cor. stone the variation was. $15^{\circ}E$.

Descend.

80.00 Put a quartzite rock $5 \times 14 \times 10$ ins.

10 ins. in the ground for 56 mile cor. marked W. Mt.

L. A. N. B. 56 Mi. and raised a mound of stone $2\frac{1}{2}$ ft. high 5 ft. base alongside

No trees within limits.

Surface mountainous
Dip 45° rate

Scattering Juniper rock trees

$74.12^{\circ}20'E$.

Cham Wash Boundary

D. $8^{\circ}21'N$. on $5\frac{1}{2}$ mi.
 Va. $12^{\circ}30'E$.

Proceeding

40.00

Set a quartzite rock, $14 \times 12 \times 12$ ins.
 9 ins. in the ground for $56\frac{1}{2}$
 mile cor. marked N.W.

I. C. N. B. $56\frac{1}{2}$ mi. and
 raised a mound of stone
 $1\frac{1}{2}$ ft. high $3\frac{1}{2}$ ft. base
 alongside.

No trees within limits.

41.20

Gulf 30 lbs. side C.O. S.W.

Proceed more gradually,

72.40

Foot Chromo Peak or Butte ls.

E. & N. Wash 1 ch. side Co. E.

— Road in Wash. ls. E. & N.

Champions Mill and mine about
 1 mile down the wash.

Spring at the mill.

Proceed.

Spine White Mt. Ind. Reservation

76.00 Top bluff by E.W. have wash
 8000 Out a quartzite rock 17X13X9
 ins. It was in the ground
 for 57 mile cor. marked
 N. M. & O. R. N. B. 57 M. and
 raised a mound of stone
 2 1/2 ft. high 5 ft. ⁱⁿ ^{from} ^{within} ^{limits} ^{of} ^{the} ^{stone} ^{along} ^{side}
 Surface mountainous
 Soil ~~is~~ ^{is} ~~not~~ ^{not} ~~rock~~
 Scattering Juniper and cedar trees
 Va. 1350' E.

Chains Head Boundary

$0.8^{\circ} 21' N.$ on $5/8^{\text{th}}$ mile
 $N. 13^{\circ} 50' E.$

Along E. slope hills and ridges.

4.10 Gulch. 10 lbs. wide ca E.

27.00 " 10 " " " "

36.30 " 8 " " " "

40.00 Put a volcanic rock $20 \times 12 \times 10$ ins

13 ins. in the ground for
 $57\frac{1}{2}$ mile cor. marked

N. M. & O. N. O. $57\frac{1}{2}$ M.

and raised a mound
 of stone $1\frac{1}{2}$ ft. high $3\frac{1}{2}$
 ft. base along side

No trees within limits.

50.15 Wash 4 lbs. wide ca E. ascend

76.00 Top round hill 275 ft. high
 Descent.

80.00 A Limestone rock ^{in place} $7 \times 4 \times 1$ ft.

a few ground, marked with
 a cross at exact cor. point

Hains White Mt. Ind. Parrotine

and N. M. I. R. N. B. 58 M.
and raised a mound of
stone 2½ ft. high 5 ft. diam
alongside.

No trees within limits

Surface lumpy
Soil 4th rate

Catchaw fresh some cedars

No. 12° 20' E.

Chavis West Boundary

$0.8^{\circ} 21' N.$ on 5^{th} mile

$7^{\circ} 12' 20' E.$

Disscuss

820 feet hill, ridge extends S.E.

Wash. 25th mile north cor. S.L. ascend

4000 Set a limestone $18 \times 13 \times 11$ ins.

12 ins. in the ground

for $58\frac{1}{2}$ mile cor. marked

N.M. I. R. N.B. $58\frac{1}{2}$ M.

and raised a mound
of stones $1\frac{1}{2}$ ft. high $3\frac{1}{2}$ ft.

tan alongside.

No trees within limits

See small bench on N. side hill.

6700 Top N. side round hill

about 1000 ft. high. on

Mt. ridge extends N.W.

Overlooks large valley

extends from Globe toward

San Carlos.

Hains White Mt. Ind. Reservation

80.00 Set a limestone $15 \times 12 \times 12$ ins.
 10 ins. in the ground for 59
 miles cr. near Hds. H. M.
 I. P. H. B. 59 Mi. and raised
 a mound of stone $2\frac{1}{2}$ ft.
 high 5 ft. tall alongside.
 No trees within limits
 Surface mountainous
 Soil 4th rot
 Scattering brush, catclaw
 Va. 12 20 E.

Chains West Boundary

D. $8^{\circ} 21' N.$ on 60^{th} mileTa. $12^{\circ} 20' E.$

Descent

- 24.20 Foot high hill; Gulch 20 lbs wide
co. N. ascend.
- 30.00 Top E. end spur about 100 ft. high
extends N.; Descent
- 40.00 Put a limestone $18 \times 14 \times 10$
ins. 12 ins. in the
ground for $59\frac{1}{2}$ mile cor.
marked. N. M. S. R. N. B.
 $59\frac{1}{2}$ M. and raised a
mound of stone $1\frac{1}{2}$ ft.
high $3\frac{1}{2}$ ft. base along side
No trees within limits
- 55.00 Along E. slope ridge
- 71.85 Lower slope; Herb 10 lbs
wide co. S.W.
- 80.00 Put a limestone $16 \times 15 \times 9$ ins.
11 ins. in the ground

Chairs Mt. Mt. Ind. Reclamation

for 60 mile cor. marked
 H. M. I. R. H. B. 60 M.
 and raised a mound of
 stone 2 1/2 ft. high 5 ft. base
 alongside.

No trees within limits.

Surface mountainous ^{and rolling}
 Soil 4th rate →

Grass fair.

La. 13° 20' E.

Chains West Boundary

9.8° 21' N on 6^{1/2} mile
7a. 12° 20' E.

Descending gradually over
rolling hills and ridges.

27.50 Wash 22 lbs wide cor. R.E.

40.00 Set a quartzite rock. 15x15x12
ins. 10 ins. in the ground
for 60^{1/2} mile cor. marked
N.M.I.R. N.B. 60^{1/2} M.
and raised a mound
of stone 1^{1/2} ft high. 3^{1/2}
ft base, alongside
No trees within limits

46.80 Wash. 10 lbs wide cor. R.E.

58.00 " 10 " " " R.E.

71.80 " 15 " " " R.E.

80.00 Set a quartzite rock.
26x22x8 ins. 17 ins. in the
ground for 61 mile cor.
marked N.M.I.R. N.B.

Chains White Mt. Ind. Recreation

6/17/67 and raised a
mound of stone 2 1/2 ft.

high 5 ft. base alongside

No trees within limits

Surface rolling hills

Dot Ind. note

Good grass.

No timber.

N. 120° 30' E.

Chains West Boundary

D. $8^{\circ}21'N$ on 62nd MileTa. $12^{\circ}20'E$.

Over level country.

- 7.00 Trail br. $7^{\circ}N$ + $20^{\circ}E$.
- 8.00 Descend along E. bank dry river
- 40.00 Set a quartzite ^{rock} $5 \times 5 \times 12$ ins.
10 ins. in the ground
for 6 $\frac{1}{2}$ mile cor. marked
 $N. 7^{\circ} E. R. N. B. 61^{\circ} \frac{1}{2} N.$
and raised a mound
of stone $1\frac{1}{2}$ ft. high $3\frac{1}{2}$ ft.
base ^{along side}.
- 44.50 Foot of dry river bank ^{no trees within limits} br. $S. 10^{\circ} E.$
- 46.50 Trail br. $20^{\circ} E. + 7^{\circ} N.$
- 49.40 " " " " " "
- 62.00 " " " " " " ascend
- 66.00 Top river bank br. $S. 10^{\circ} E$
and $7^{\circ} 10' N.$
- 80.00 Set a quartzite rock $17 \times 12 \times 10$
ins. 11 ins. in the ground

James Michi Mt. Ind. Reservation

for 62 mile cor. marked
N.M.I. O.N.B. 62 M.
and raised a mound
of stone 2 1/2 ft. high 5 ft.
base elongated.

No trees within limits

Surface mostly level
Soil 2nd rate

Good grass

79. 12° 20' E.

Chains West Boundary

S. 8° 21' N. on 63rd Mile

Ta. 12° 20' E.

Over level mesa.

- 32.00 Wash 30 lbs. wide cor. S.E.
 thence over low ridges & gullies
- 40.00 Set a quartzite ^{rock} 17x16x10 ins.
 11 ins. in the ground for
 62½ mile cor. marked
 N.M.L., P.N.B. 62½ M.
 and raised a mound
 of stone 1½ ft. high 3½
 ft. base alongside
 No trees within limits.
- 63.50 Wash 20 lbs. wide cor. SW.
- 66.00 Penn wash 20 lbs. " " S.E.
- 80.00 Set a limestone 16x14x10
 ins. 11 ins. in the ground
 for 63 mile cor. marked
 N.M.L., P.N.B. 63 M.
 dug pit 24x15x12 ins. on line and at
 right; angles to it 6 ft. dist.

Chains White M. Ind. Reservation

and with a mound of earth 2 1/2 ft.
high 5 ft. base along side.

No trees within limits.

Surface level rolling

Soil 2nd rate

Good grass.

74. 12° 20' E.

July 30th, 1890.

Chains West Boundary

S. $8^{\circ} 21' N$ on $64^{\frac{1}{2}}$ mile
 Ta. $12^{\circ} 20' E$.

Over level and rolling country.

4.25 Hank 25 lbs. with cor. O.E.

5.80 Trail to S. $10^{\circ} E$, N. $10^{\circ} N$.

10.00 Left: tank dry river.

19.25 Trail to O.E. & N.N.

25.00 Right: tank dry river

36.00 Descend into flat to O.E.

37.50 Foot.

40.00 Put a quartzite rock $18 \times 15 \times 12$ ins.

12 ins. in the ground
 for $63^{\frac{1}{2}}$ mile cor. marked
 N.M.S. R. N.B. $63^{\frac{1}{2}}$ M.
 dug pits $24 \times 18 \times 12$ ins.
 on line 6 ft. dist. and
 raised a mound of
 earth $1^{\frac{1}{2}}$ ft. high $3^{\frac{1}{2}}$
 ft. base alongside.
 No trees within limits.

Chain White Mt. Ind. Reservation

- 51.50 Road br. $N. 10^{\circ} E.$ r $N. 10^{\circ} W.$
- 52.50 Ascend from flat, br $SE.$
- 65.00 Top of bank on S. side flat br.
 $N. N. r S. E.$
- 71.20 Wash 12 lbs. with co. $SE.$
- 78.50 " 10 " " " $E.$
- 80.00 Set a granite rock $13 \times 13 \times 12$ ins.
9 ins. in the ground for 64
mils cor. marked $N. M. S. R.$
 $N. B. 64 M.$ and dug pits
 $24 \times 18 \times 12$ ins. on line and at
right angles to it. 6 ft. dia. and
raised a mound of earth
 $2\frac{1}{2}$ ft. high 5 ft. ran alongside
No trees within limits.
Surface flat and rolling
Soil 2nd rate.
Good Grass
Scattering brush
 $Ya. 12^{\circ} 20' E.$

Chino West Boundary

S. 8° 21' N. on 65th Mile

Va. 12° 20' E.

- Over rolling country.
- 9.85 Trail to N.W. & S.E.
- 10.50 Wash 16 lbs wide co. S.E.
- 12.05 " 25 " " " "
- 20.30 " 12 " " " "
- 40.00 Set a granite rock 13x13x12 ins. 9 ins. in the ground for 64¹/₂ mile on marked N.W. & S.E. N.B. 64¹/₂ M. dug pits 24x18x12 ins. on line 6 ft. dist. and raised a mound of earth 1¹/₂ ft. high 3¹/₂ ft. far alongside.
- No trees within limits
- 48.00 Wash 15 lbs wide co. E.
- 60.35 Road to E. & N.
- 80.00 Set a granite rock.

Chain White Mt. Ind. Reservation

15 x 12 x 11 ins. 10 ins. in
the ground for 65 mile cor.
marked N. M. I. R. N. B.

65 M. dug pits 24 x 18 x 12
ins. on line and at right-
angle to it 6 ft. dist.

and raised a mound
of earth 2 1/2 ft. high 5 ft.

base ^{alongside}

^{No trees within limits}
Surface level & trodden
Soil Ind. rate.

Good grass.

N. 12° 20' E.

Chains West Boundary

$P. 8^{\circ} 21' N$ on 66^{th} Mile
 $T. 12^{\circ} 20' E.$

- 1150 Descend into valley
 1500 Foot bluff into valley in N.W. S.E.
 3800 Road and Telegraph line
 In. S.E. and N.W. between San Carlos
 and Globe
- 3850 Mash 2 chs. wide cor. S.E.
- 40,00 In mash. Therefore I set at
- 41,50 A granite rock $15 \times 12 \times 11$ ins. 10 ins.
 in the ground for $65\frac{1}{2}$ miles
 int. cor. marked. "N.C.N.M.
 I.R. N.B. $65\frac{1}{2}$ M. T. Cor. $N. 8^{\circ} 21' E.$
 150 lbs." dug pits $24 \times 18 \times 12$ ins
 along line. Eft. dist-
- 6 and raised a mound
 of earth 1 1/2 ft. high $3\frac{1}{2}$
 ft. base along side.
 No trees within limits
- 44,50 Road in. S.E. + N.W.
- 65,45 Trail in. N.E. + S.W.
- 6700 Foot bluff in N.W. + S.E.

Chaco White Mt. Ind. Reservation

7000 Top. in N.W. + S.E. near valley.
 8000 Dug a granite rock, 17x16x9 ins.
 11 ins. in the ground
 for 66 mile cor. marked
 N.W. 1/4, S. 1/4, B. 66 M. dug
 pits 24x18x12 ins. on line
 and at right angles to it.
 6 ft. dist. and raised
 a mound of earth
 2 1/2 ft. high 5 ft. base
 alongside.

No trees within limits
 Surface rolling and hilly
 Sand full. rate
 Good grass.

To. 12° 20' E.

Chains West Boundary

D. $8^{\circ}21'N$. on 67^{th} Mile
 Va. $12^{\circ}20'E$.

Over rolling country

9.85 Trail to D.E. + N.N. from Globe
 to San Carlos.

15.50 Wash 15 lbs. wide co. E.

40.00 Put a granite rock $13 \times 13 \times 12$ ins.

9 ins. in the ground
 for $66\frac{1}{2}$ mile on marked
 N.M.S. R. N.C. $66\frac{1}{2}$ M.; dug
 pit: $24 \times 18 \times 12$ ins. on line
 6 ft. chat. and raised
 a mound of earth $1\frac{1}{2}$ ft.
 high $3\frac{1}{2}$ ft. base along side
 No trees within limits

41.00 Wash 40 lbs. wide co E.

41.75 Trail to D.E. + N.N.

61.50 Wash 15 lbs. wide co. E.

63.10 Trail to E + N.

64.70 Wash 30 lbs. wide co. $N 80^{\circ} E$.

Rains Mt. Mt. Ind. Reservation

80.00 Set a granite rock 16x12x18 ins
 11 ins. in the ground for 67 mile
 cor. marked N.M.I.R. N.O. 67 M.
 dug pits 24x18x12 ins on line
 and at right angles to it
 6 ft. dist. and raised
 a mound of earth 2 1/2
 ft. high 5 ft. base alongside
 No trees within limits
 Surface hilly and rolling
 Soil 3rd. rate
 Good grass
 Va. 12° 20' E.

Chain West Boundary

D. $8^{\circ} 21' N.$ on 68^{th} mileNo. $12^{\circ} 20' E.$

Over rolling and hilly country

5.60 Stake 10 lbs. wide co. E.

6.00 Trail to E. & N.

21.00 Stake 5 lbs. wide co. E.

26.90 " " " " "

37.45 Trail to E. & N.

39.95 Stake 20 lbs. wide co. E.

40.00 Set a granite rock $13 \times 13 \times 12$ ins

9 ins. in the ground for

 $67\frac{1}{2}$ mile cor. markedN. M. I. R. N. B. $67\frac{1}{2}$ M.;dug pit $24 \times 18 \times 12$ ins. on

line 6 ft. dist. and

raised a mound

of earth $1\frac{1}{2}$ ft. high $3\frac{1}{2}$ ft. base alongside

No trees within limits.

50.10 Trail to E. and N.

Trails White Mt. Ind. Reservation

- 52.10 Wash 15 Mo. wide co. E.
 67.20 " " " " " "
 73.25 Trail to E. & N.
 75.50 Wash 30 Mo. wide co. E. ascend
 80.00 Set a granite rock 13x13x12 ins.
 9 ins. in the ground for 68 miles
 cor. marked N. W. L. P. N. W. C. 68
 3m; dug pit 24x18x12 ins. on
 line ^{at} right angles to it
 6 ft. dist. and raised a
 mound of earth 2 1/2 ft.
 high 1 ft. tan alongside.
 No trees within limits
 Surface rolling and hilly
 Soil 2nd and 3rd rate
 Good grass.
 N. 12° 20' E.
-

Chain West Boundary

P. 8° 21' N. on 69[±] mile
Va. 12° 20' E.

Ascend

3.50 Top of ridge about 50 ft high
tr. E. & N. Descend

8.45 Foot. Gulch 12 Mo. wide co. E.

Ascend

18.00 Top of ridge about 50 ft high
tr. E. & N. Descend

21.75 Gulch 15 Mo. wide co. E. Foot ridge

Ascend

27.00 Top ridge about 50 ft high tr. E. & N.
Descend.

36.50 Foot. Ester valley co. E.

40.00 At a quartzite ^{rock} 21 X 16 X 11 ins.

14 ins. in the ground

for 68¹/₂ mile cor. marked

N. M. & R. N. B. 68¹/₂ mi.; dog

pile 24 X 18 X 12 ins. on line

6 ft. dirt and raised

Chains Walk - Mt. Ind. Reservation

a mound of earth 2 1/2 ft.
high 3 1/2 ft. face along side
No trees within limits

40.30 Walk 20 Mts. wide co E.

42.50 Road to E. and W.

45.75 Walk 15 Mts. wide co E.

Leave valley co. E.

79.00 Top ridge about 80 ft. high
in N.E. & S.W. Descend

80.00 Set a quartzite rock 28x16x8 ins.
19 ins. in the ground for
69 with cor. marked

N. M. J. A. N. B. 69 M. and
raised a mound of stone 2 1/2
ft. high 5 ft. face along side.
No trees within limits.

Surface hilly
Soil 3rd rate

Grass fair

Va. 12° 20' E.

Chain West Boundary

S. $8^{\circ}21'N.$ on 70th mile
 Ta. $12^{\circ}20'E.$

Descend

1250 Gully 25 ft. wide co. E, ascend

2450 Top ridge about 175 ft. high to E. N.

Descend

3720 Foot. Mark 20 ft. wide co. $N. 80^{\circ}E.$

Ascend

4000 At a granite well $20 \times 16 \times 8$ ins.

13 ins. in the ground
 for $69\frac{1}{2}$ mile on marked
 N. W. I. O. N. B. $69\frac{1}{2}$ M.; dog

pile $24 \times 18 \times 12$ ins. on line
 6 ft. dist. and raised on
 mound of earth $1\frac{1}{2}$ ft. high
 $3\frac{1}{2}$ ft. tan alongside

Markings within limits

7600 Top ridge about 200 ft. high
 to $N. 80^{\circ}E.$ and $S. 80^{\circ}N.$

Descend

Chains White Mt. Ind. Reservation

80.00 Put a quartzite ^{rock} 18x18x12 ins.
 12 ins. in the ground
 for 70th mil. cor. marked
 N.M.S.R. N.B. 70 M. and
 raised a mound of stone
 2½ ft. high 5 ft. base
 alongside.

No trees within limits

Surface hilly

Soil 3rd. rate.

Grass fair

Var. 12°45' E.

July 31st 1890

See final notes on Book 4