

BOOK 3886

FIELD NOTES

OF THE SURVEY OF THE

Boundaries of the

Theodore Roosevelt Indian School

(Identical in position with the boundaries of the
abandoned Fort Apache Military Reserve)

and of the

Exchange Boundary of the

Theodore Roosevelt Indian School
(A division line of said Reservation)

situated in

the Fort Apache Indian Reservation

in

Fractional Township 4 $\frac{1}{2}$ North, Range 22 East, Fractional Township 4 $\frac{1}{2}$ North, Range 23 East
Township 5 North, Range 22 East, and Township 5 North, Range 23 East

Of the Gila and Salt River Base and Meridian,

In the State of Arizona

EXECUTED BY

John L. Warboys, U. S. Surveyor,

In the capacity of U. S. Surveyor, under Special Instructions dated September 15, 1927 for Group 148, and November 15, 1928 for Group 154, issued by the District Cadastral Engineer to govern surveys included in Groups Nos. 148 & 154, Ariz., which were approved by the Commissioner of the General Land Office September 24, 1927 and November 23, 1928, and Assignment Instructions dated August 4, 1929.

Survey commenced October 16, 1929

Survey completed November 2, 1929

3886

3886

INDEX DIAGRAM.

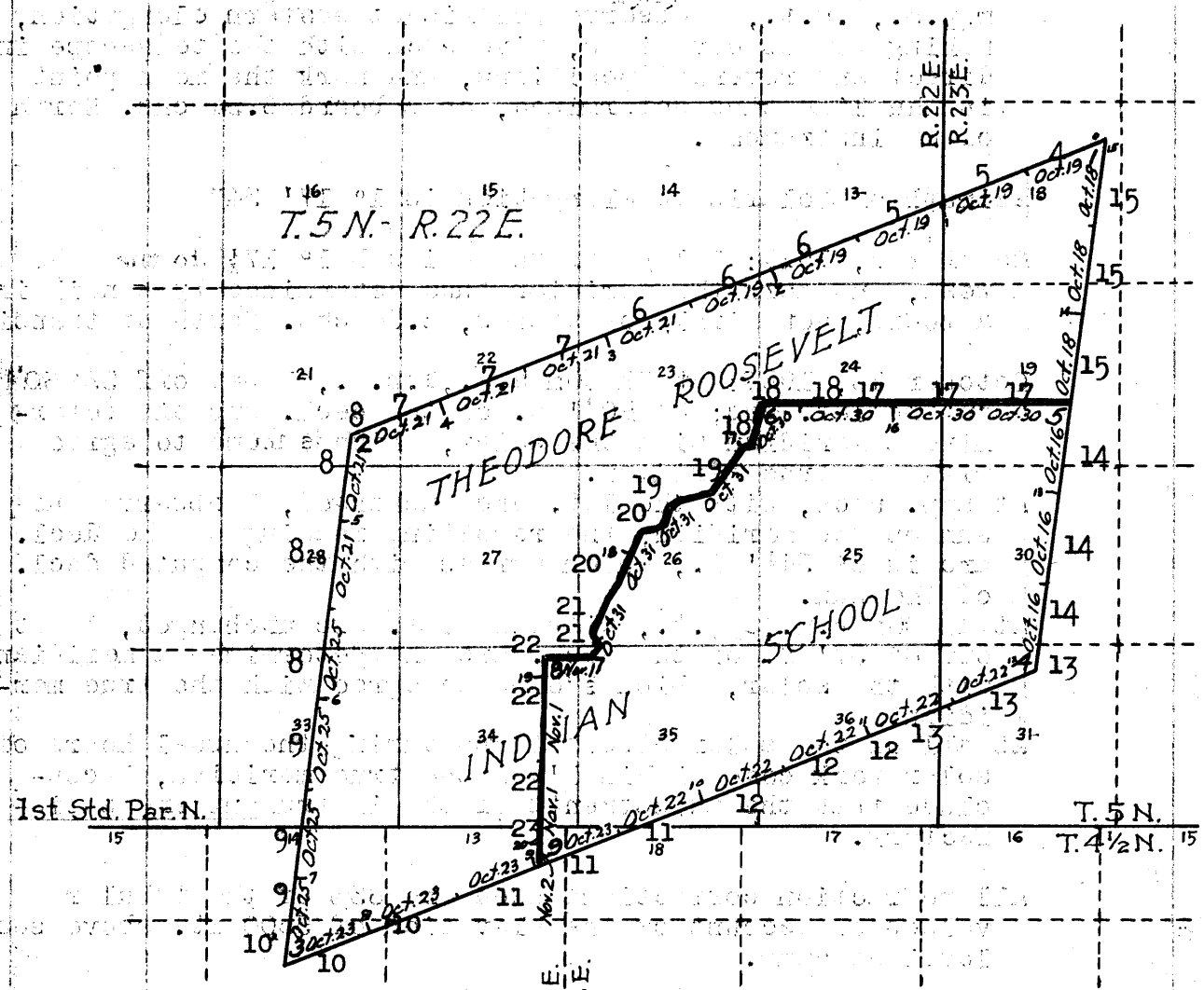
Township _____, Range _____

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

Book "A"
Group 148 and Group 154
Arizona
INDEX and DATE DIAGRAM
1929

7
Oct 21
(Bdy. of Theodore Roosevelt Indian School, surveyed by John L. Warboys, U.S. Surveyor, under instructions for Group 148, Arizona as described in the field notes herein. Red ink letters and figures indicate dates (1929) of survey, and typewritten figures indicate page numbers of the field notes herein.

17
Oct 30
Exchange Bdy. of Theodore Roosevelt Indian School, surveyed in 1929 by John L. Warboys, U.S. Surveyor, under instructions for Group 154, Arizona, as described in the field notes herein. Red ink letters and figures indicate dates of survey, and typewritten figures indicate page numbers of the field notes herein.



All lines surveyed by John L. Warboys, U.S. Surveyor, under instructions for Group 154, Arizona, as described in the field notes in Book "B" of this group. The dates shown hereon in red ink are 1929.

Township Exterior Lines surveyed in 1929 by Sidney E. Blout, U.S. Cadastral Engineer, under instructions for Group 154, as described in the field notes in Book "B" of this group.

Subdivision lines of T. 5 N., R. 22 E. surveyed by John L. Warboys, U.S. Surveyor, in 1929, under instructions for Group 154, as described in Book "D" of said group.

Subdivision lines of T. 5 N., R. 23 E. surveyed by John L. Warboys, U.S. Surveyor, in 1929, under instructions for Group 154, Arizona, as described in Book "C" of said group.

Unsurveyed Township Exterior Lines and Subdivision Lines.

Survey commenced October 16, 1929 and executed with Young and Sons transit No. 8385. The instrument is equipped with a Smith solar attachment and full vertical circle. 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 approved, subject to the usual field tests, by the District Cadastral Engineer for Arizona.

Examine the adjustments of the transit and solar apparatus and find them correct; then to test the solar apparatus, by comparing its indications resulting from solar observations made during a.m. and p.m. hours with a meridian determined by observations on Polaris, proceed as follows:

October 8, 1929: at camp, near the center of the SW $\frac{1}{4}$ of sec. 13, T. 5 N., R. 23 E., G. & S. R. B. & M., Ariz., latitude $33^{\circ} 50'$ N., longitude (approximate) $109^{\circ} 52\frac{1}{2}'$ W., at 6h.32 m., p.m., l.m.t., observe Polaris at eastern elongation, making ten observations, five each with the telescope in direct and reversed positions, and mark the mean point in the line thus determined, on a board 6.54 chs. North of instrument.

Azimuth of Polaris at elongation is $1^{\circ} 17' 34''$

October 9, 1929: lay off the azimuth $1^{\circ} 17\frac{1}{2}'$ to the west, and mark the meridian thus determined by a nail in a board, set firmly on stakes, 6.54 chs. North of transit.

October 16, 1929: at 8h 00m a.m., app.t., set off $33^{\circ} 50'$ N! on the lat. arc; $8^{\circ} 50'$ S. on the decl. arc and determine a meridian with the solar, which is found to agree with the true meridian.

At app. noon, with the lat. arc unchanged, observe the sun on the meridian; the resulting reading of the decl. arc is $8^{\circ} 54\frac{1}{2}'$ S., which agrees with the computed decl. of the sun.

At 4h 00m p.m., app.t., with the lat. arc unchanged, set off $8^{\circ} 57'$ S. on the decl. arc and determine a meridian with the solar, which is found to agree with the true meridian.

As all of the solar observations during the usual hours of solar work come within $1'$ of the true meridian, conclude that the adjustments of the instrument are satisfactory.

All refraction corrections used are 83% of the tabular values on account of the elevation of 5500 ft. above sea level at camp.

November 3, 1929: on the meridian above described, at 8h 00m a.m. app.t., set off $33^{\circ} 50'$ N! on the lat. arc; $15^{\circ} 00'$ S. on the decl. arc and determine a meridian with the solar, which is found to agree with the true meridian.

At app. noon, with the lat. arc unchanged, observe the sun on the meridian, the resulting reading of the decl. arc is $15^{\circ} 05'$ S., which agrees with the computed decl. of the sun.

At 4h 00m p.m., app.t., with the lat. arc unchanged, set off $15^{\circ} 06\frac{1}{2}'$ S. on the decl. arc and determine a meridian with the solar, which is found to agree with the true meridian.

As all of the solar observations during the usual hours of solar work come within $1'$ of the true meridian, conclude that the adjustments of the instrument have been maintained satisfactorily throughout the survey.

Unless otherwise specified, all azimuth determinations are accomplished with the solar apparatus. All measurements are made with a Lallie steel tape, 5 chains in length, compared with a Luffin standard 1 chain tape and found correct. The measurements are made on the slope, the vertical angle determined with clinometer or transit and the slope measurements properly reduced to true horizontal distances for entry in the field notes.

October 8, 1929: immediately prior to making the observation on Polaris for azimuth, made an hour angle observation on Polaris for latitude as follows: ten readings, five each with the telescope in direct and reversed positions, noting the time of observation and vertical angle to Polaris, and the various observations taken at approximately equal time intervals.

Upper culmination, Polaris, Oct. 9 0h 27m 30s a.m., l.m.t.
 Local Mean Time (mean of obsns.) 6h 19m 00s p.m., Oct. 8
 Hour Angle 6h 08m 30s

Mean vertical angle to Polaris	33° 47' 55"
Refraction correction (83% Tabular)	-1' 10"
Altitude of Polaris	33° 46' 45"
Primary Correction	+3' 16"
Secondary Correction	33° 50' 01"
Observed latitude	33° 49' 50"

The elevations are obtained by barometer readings carried in by Cadastral Engineer Blout and Surveyor Warboys, compared and agreeing very closely with several other readings brought in by different individuals.

Survey of the Boundaries of
the Theodore Roosevelt Indian School.

Chains

The boundaries of the Theodore Roosevelt Indian School are identical with the boundaries of the former Fort Apache Military Reserve and are surveyed under Special Instructions issued for Group 148, Arizona.

The original survey of this reserve was made in March 1876 by First Lieut. H. D. Thomas, Fifth Cavalry, A.D.C. and Acting Engineer Officer, and no monuments were set except at the four corners of the reserve. No witness or line trees are called for in the original survey. All record of the topography is on the sketch plat of the reserve as issued by the Engineer Office. Of these original corners, only the SE. corner (Corner No. 4) was found, although considerable time was spent in searching for them. Consequently, Corners Nos. 1, 2 and 3 are re-established by running record courses and distances from Corner No. 4.

By Act of March 7, 1928 (45 Stat.217), certain lands were authorized to be exchanged for the benefit of the Theodore Roosevelt Indian School reservation and the Fort Apache Indian Reservation. By letter dated July 5, 1928, the Commissioner of Indian Affairs gave a general description of the boundaries of the land to be exchanged. The survey of this exchange boundary is made under Special Instructions issued for Group 154, Arizona. The field notes of both of these surveys are incorporated in the following field notes.

At a point, N. 7° 15' E., 240.00 chs. dist. from Cor. No. 4 of the Theodore Roosevelt Indian School, hereinafter described,

Set an iron post, 3 ft. long, 3 ins. dia., 27 ins. in the ground, for Cor. No. 1 and 15 Mile mon. of the Theodore Roosevelt Indian School, with brass cap marked

15 M T 5 N
COR 1 S 18
TRIS R 23 E
1929

from which

- A juniper, 8 ins. dia., bears S. 34½° W., 14 lks. dist., marked 15 M COR 1 TRIS BT.
- A juniper, 8 ins. dia., bears S. 27° W., 66 lks. dist., marked 15 M COR 1 TRIS BT. (Elev. 5340 ft.)

Thence

S. 68° 34' W. on a true line on 1st mile.

Over mountainous land, through dense timber and scattering undergrowth. Descend 20 ft. to ravine.

- 0.70 Old wood road, bears NW. and SE.
- 2.00 Ravine, course NW. Ascend 45 ft. to
- 4.00 Spur, slopes NW. Descend 40 ft. to
- 6.10 Ravine, course NW. Ascend 40 ft. to
- 8.00 Spur, slopes NW. Descend 50 ft. to
- 9.40 Ravine, course NW. Ascend 15 ft. to
- 11.50 Spur, slopes NW. Descend 45 ft. to
- 13.40 Ravine, course NW. Ascend 50 ft. to
- 16.50 Spur, slopes NW. Descend 130 ft. to ravine.
- 20.00 Trail, bears N. and S.
- 26.80 Ravine, course NW. Ascend 40 ft. to
- 29.60 Spur, slopes NW. Descend 60 ft. to
- 35.20 Ravine, course NW. Ascend 25 ft. to
- 37.70 Spur, slopes NW. Descend 60 ft. to
- 40.00 Set an iron post, 3 ft. long, 1 in. dia., 27 ins. in the ground, for ½ Mile mon. of the Theodore Roosevelt Indian School, with brass cap marked

Survey of the Boundaries of
the Theodore Roosevelt Indian School.

3886

Chains

T 5 N R 23 E
S 18
~~1/2 M~~
TRIS
1929

from which

A pinion, 8 ins. dia., bears N. 83 1/4° E., 29 lks. dist.,
marked 1/2 M TRIS BT.
A pinion, 8 ins. dia., bears S. 39 3/4° W., 108 lks.
marked 1/2 M TRIS BT. (Elev. 5150 ft.)

- 43.00 Descend NW. slope 75 ft. to flat.
- 43.30 Irrigation ditch, 6 ft. wide, 2 ft. deep, course SW.
- 43.60 Trail, bears NE. and SW.
- 47.80 Wire fence, bears NE. and SW. Descend 20 ft. to river.
- 58.70 Over flat, pasture land.
- 59.30 Enter corn field, bears NE. and SW.
- 59.80 Wire fence, bears NW. and SE. Enter cottonwood and willow
timber.
- 62.00 Wire fence, bears N. and S.
- 63.00 Wash, 30 ft. wide, 1 1/2 ft. deep, course SW.
- 64.00 Wire fence, bears NE. and SW.
- 65.40 Left bank of N. Fork of White River, course SW.
- 73.00 Right bank of N. Fork of White River, course SW. Thence
along river bed, on top of gravel bars.
- 80.00 Main road, bears N. to Whiteriver and S. to East Fork
Lutheran Mission School.
- Enter N. Fork of White River, course S. 68° 30' W.
- Point for 1 Mile mon. falls in river, 5 ft. below point
at 63.00 chs.

Land, mountainous and rolling. Soil, rock, gravel, adobe.
Timber, juniper, pinion, cottonwood. Undergrowth, buck-
brush, mountain mahogany, manzanita, willow, arrowweed.

S. 68° 34' W. on a true line on 2nd mile.
Through channel of N. fork of White River.

- 2.70 Leave river, course SW.
- 3.60 Set an iron post, 2 ins. dia., 27 ins. in the ground, for
witness cor. to the 1 Mile mon. of the Theodore Roose-
velt Indian School, with brass cap marked

T 5 N R 22 E
S 13 W
~~1 M~~ C
TRIS
1929

from which

A cottonwood, 24 ins. dia., bears S. 17 3/4° E., 31
lks. dist., marked 1 M TRIS WC BT.
A cottonwood, 16 ins. dia., bears S. 9 1/2° W., 70 lks.
dist., marked 1 M TRIS WC B T. (Elev. 5055 ft.)

- 5.00 Over bottom land, through cottonwood and walnut.
- 7.50 Enter corn field, bears N. and S.
- 12.30 Telephone line, bears N. and S.
- 13.10 Sewer ditch, 20 ft. wide, 2 ft. deep, course SW. This
ditch is 5 ft. above witness cor. Ascend 135 ft. to
top of bluff.
- 21.50 Trail, bears N. and S.
- 26.00 Top of bluff. Over lava strewn mesa. Descend 5 ft. to
1/2 mile mon.
- 35.10 Corrals, bear N., about 4 chs. dist.
- 40.00 Old road, bears N. and S.
- Set an iron post, 3 ft. long, 1 in. dia., 18 ins. in the
ground, to solid rock, supported by a mound of stone, 2
ft. base, 1 ft. high, for 1/2 Mile mon. of the Theodore
Roosevelt Indian School, with brass cap marked

T 5 N R 22 E
S 13
~~1/2 M~~
TRIS
1929

Survey of the Boundaries of
the Theodore Roosevelt Indian School.

Chains

from which

A juniper, 6 ins. dia., bears S. $10 \frac{3}{4}^{\circ}$ W., 67 lks. dist., marked $1 \frac{1}{2}$ M TRIS BT.

A juniper, 6 ins. dia., bears S. 22° W., 113 lks. dist., marked $1 \frac{1}{2}$ M TRIS BT. (Elev. 5190 ft.)

Continue over lava strewn mesa. Descend 5 ft. to river bank at 55.50 chs.

47.20

Telephone line, bears NE. and SW.

55.50

Top of bluff bank of N. Fork of White River. Descend 145 ft. to river, at bend.

58.00

Right Bank of N. Fork of White River, at edge of water, course S. 60° W. Ascend 125 ft. to

62.40

Top of bluff bank of N. Fork of White River. Descend 5 ft.

68.00

Drain, course S. Descend 25 ft. to

80.00

Set an iron post, 3 ft. long, 2 ins. dia., 18 ins. in the ground, to solid rock, supported by a mound of stone, 2 ft. base, 1 ft. high, for 2 Mile mon. of the Theodore Roosevelt Indian School, with brass cap marked

T 5 N R 22 E

~~S 13~~

2M

TRIS

1929

from which

A juniper, 8 ins. dia., bears East, 218 lks. dist., marked 2 M TRIS BT.

A juniper, 6 ins. dia., bears S. $19 \frac{1}{4}^{\circ}$ W., 117 lks. dist., marked 2 M TRIS BT. (Elev. 5135 ft.)

Land, rolling bottom and mesa, with rock bluffs. Soil, a rich loam and adobe in bottom and rocky clay adobe on mesa. Timber, scattering cottonwood, willow, juniper. Undergrowth, arrowweed, sage brush, cactus.

S. $68^{\circ} 34'$ W. on a true line on 3rd mile.

Over slightly rolling mesa through scattering juniper and pinion.

5.90

Drain, course SE., same elevation as 2 mile mon. Ascend 5 ft. to

7.90

State Highway, bears NE. to Whiteriver and SW. to Globe. Ascend 10 ft. to

31.70

Drain, course S. Ascend 5 ft. to

37.10

Wash, 20 lks. wide, 3 ft. deep, course SE. Ascend 65 ft.

40.00

Set an iron post, 3 ft. long, 1 in. dia., 27 ins. in the ground, for $2 \frac{1}{2}$ Mile mon. of the Theodore Roosevelt Indian School, with brass cap marked

T 5 N R 22 E

~~S 23~~

$2 \frac{1}{2}$ M

TRIS

1929

from which

A juniper, 6 ins. dia., bears S. $67 \frac{3}{4}^{\circ}$ E., 149 lks. dist., marked $2 \frac{1}{2}$ M TRIS BT.

A juniper, 6 ins. dia., bears S. $48 \frac{1}{2}^{\circ}$ E., 132 lks. dist., marked $2 \frac{1}{2}$ M TRIS BT. (Elev. 5220 ft.)

Ascend 5 ft. to

44.30

Drain, course S. 20° E. Ascend SE. slope 95 ft. to

65.90

Ravine, course SE. Ascend steep E. slope 215 ft. to

80.00

Set an iron post, 3 ft. long, 2 ins. dia., 8 ins. in the ground to solid rock, supported by a mound of stone, 3 ft. base, $1 \frac{1}{2}$ ft. high, for 3 Mile mon. of the Theodore Roosevelt Indian School, with brass cap marked

T 5 N R 22 E

~~S 23~~

3M

TRIS

1929

Survey of the Boundaries of
the Theodore Roosevelt Indian School.

BOOK 2680

Chains

from which
An oak, 6 ins. dia., bears S. $11\frac{1}{2}^{\circ}$ W., 70 lks. dist.,
marked 3 M TRIS BT.
A juniper, 6 ins. dia., bears S. 18° W., 139 lks.
dist., marked 3 M TRIS BT. (Elev. 5535 ft.)

Land, rolling mesa and steep rocky slopes. Soil, rocky
adobe and clay on mesa, with rock and gravel on steep
slopes. Timber, juniper, pinion and scattering oak.
Undergrowth, mountain mahogany, cactus.

S. $68^{\circ} 34'$ W. on a true line an $\frac{1}{4}$ th mile.
Over mountainous land through scattering timber and brush.
Descend 5 ft. to
1.40 Drain, course SE. Ascend broken E. slope 440 ft. to
14.70 Top of bluff, bears N. and S. Over lava cap through scat-
tering juniper and pinion, level. (Elev. 5970 ft.)
18.00 Leave lava cap, bears N. and S. Descend 160 ft. to
23.00 Enter bench, bears N. and S. Descend 30 ft. to
26.10 Descend steep NW. slope 105 ft. to
34.00 Descend W. slope 150 ft. to
40.00 Set an iron post, 3 ft. long, 1 in. dia., 18 ins. in the
ground to solid rock, supported by a mound of stone, 2
ft. base, 10 ins. high, for $3\frac{1}{2}$ Mile mon. of the Theodore
Roosevelt Indian School, with brass cap marked

T 5 N R 22 E
S 22
~~3 1/2 M~~
TRIS
1929

from which
An oak, 4 ins. dia., bears S. $47\ 3/4^{\circ}$ E., 42 lks.
dist., marked $3\frac{1}{2}$ M TRIS BT.
An oak, 6 ins. dia., bears S. $4\frac{1}{4}^{\circ}$ W., 63 lks. dist.,
marked $3\frac{1}{2}$ M TRIS BT. (Elev. 5525 ft.)

Descend brushy NW. slope 195 ft. to
53.00 Enter valley, bears NE. and SW. Descend 50 ft. to
57.00 Drain, course NW. Descend 60 ft. to
62.10 Wash, 40 lks. wide, $1\frac{1}{2}$ ft. deep, course SW. Ascend 20 ft.
65.00 Over general, grassy S. slope. Descend 50 ft. to 72.40 chs.
68.70 Road, bears N. to Indian village and S. to State Highway.
72.40 Old road, bears NE. and SW. Descend 25 ft. to $\frac{1}{4}$ mile mon.
76.00 Enter juniper and pinion timber, bears NE. and SW.
80.00 Set an iron post, 3 ft. long, 2 ins. dia., 27 ins. in the
ground, for $\frac{1}{4}$ mile mon. of the Theodore Roosevelt In-
dian School, with brass cap marked

T 5 N R 22 E
S 22
~~4 M~~
TRIS
1929

from which
A pinion, 4 ins. dia., bears S. $45\frac{1}{4}^{\circ}$ E., 121 lks. dist.,
marked 4 M TRIS BT.
A juniper, 6 ins. dia., bears S. 59° W., 54 lks. dist.,
marked 4 M TRIS BT. (Elev. 5165 ft.)

Land, mountainous and rolling. Soil, rocky and adobe.
Timber, juniper, pinion, oak. Undergrowth, mountain ma-
hogany, yucca, cactus.

S. $68^{\circ} 34'$ W. on a true line on $\frac{5}{8}$ th mile.
Over rolling land through timber and scattering under-
growth. Ascend general S. slope 45 ft. to 34.80 chs.
3.50 Drain, course S.
16.60 Drain, course S.
17.10 Old road, bears N. and S.
34.80 Drain, course S. Ascend 5 ft. to $\frac{1}{2}$ mile mon.

Survey of the Boundaries of
the Theodore Roosevelt Indian School.

Chains

35.00 Old road, bears N. and S.
40.00 Set an iron post; 3 ft. long, 3 ins. dia., 27 ins. in the ground, for Cor. No. 2 and $4\frac{1}{2}$ Mile mon. of the Theodore Roosevelt Indian School, with brass cap marked

T 5 N / R 22 E
S 21 / COR 2
TRIS
 $4\frac{1}{2}$ M
1929

from which

A juniper, 4 ins. dia., bears S. $83\frac{1}{4}^{\circ}$ E., 81 lks. dist., marked $4\frac{1}{2}$ M COR 2 TRIS BT.

A juniper, 4 ins. dia., bears S. $24\frac{3}{4}^{\circ}$ E., 61 lks. dist., marked $4\frac{1}{2}$ M COR 2 TRIS BT.

(Elev. 5215 ft.)

Thence

S. $7^{\circ} 15'$ W. on a true line continuing on 5 th mile. Descend general S. slope through timber and scattering brush 155 ft. to 5 mile mon.

61.20 Old road, bears N. 30° W. and S. 30° E.

70.00 Leave timber, bears E. and W.

80.00 Set an iron post, 3 ft. long, 2 ins. dia., 27 ins. in the ground, for 5 Mile mon. of the Theodore Roosevelt Indian School, with brass cap marked

T 5 N /
S 28 / 5 M
R 22 E / TRIS
1929

from which

A juniper, 8 ins. dia., bears N. $25\frac{1}{2}^{\circ}$ E., 315 lks. dist., marked 5 M TRIS BT.

No other tree available. (Elev. 5060 ft.)

Land, rolling valley. Soil, adobe. Timber, juniper and pinion. Undergrowth, mountain mahogany, yucca, cactus.

S. $7^{\circ} 15'$ W. on a true line on 6th mile.

Over gentle rolling slopes through very scattering timber. Descend general SE. slope 30 ft. to

9.80 Drain, course SW. Ascend 5 ft. to

15.00 Descend general S. slope 35 ft. to $5\frac{1}{2}$ mile mon.

37.00 Road, bears NE. to Indian village and SW. to State Highway.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 27 ins. in the ground, for $5\frac{1}{2}$ Mile mon. of the Theodore Roosevelt Indian School, with brass cap marked

T 5 N / $5\frac{1}{2}$ M
S 28 / TRIS
R 22 E /
1929

from which

An oak, 4 ins. dia., bears N. 39° E., 75 lks. dist., marked $5\frac{1}{2}$ M TRIS BT.

An oak, 4 ins. dia., bears S. $69\frac{1}{2}^{\circ}$ E., 156 lks. dist., marked $5\frac{1}{2}$ M TRIS BT. (Elev. 5000 ft.)

Descend gentle, general S. slope 10 ft. to road.

47.90 Trail, bears E. and W.

56.00 Road, bears NW. to Indian village and SE. to State Highway. Ascend 30 ft. to 6 mile mon.

68.90 State Highway, bears S. 70° E. to Whiteriver and N. 70° W. to Globe.

80.00 Set an iron post, 3 ft. long, 2 ins. dia., 27 ins. in the ground, for 6 Mile mon. of the Theodore Roosevelt Indian School, with brass cap marked

T 5 N / 6 M
S 33 / TRIS
R 22 E /
1929

Survey of the Boundaries of
the Theodore Roosevelt Indian School.

BOOK 3886

Chains

and raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor. (Elev. 5020 ft.)

Land, rolling valley. Soil, adobe. Timber, scattering juniper. Undergrowth, grass, yucca, cactus.

- 2.20
- 13.60
- 25.00
- 30.00
- 33.10
- 36.80
- 39.30
- 40.00

S. 7° 15' W. on a true line on 7 th mile.
 Over gentle rolling valley, through scattering juniper.
 Descend general S. slope 35 ft. to 6½ mile mon.
 Old road, bears NE. and SW.
 Old road, bears NE. and SW.
 Drain, course SE.
 Road, bears NW. and SE.
 Road, bears E. and W.
 Road, bears NE. and SW.
 Road, bears NE. and SW.
 Set an iron post, 3 ft. long, 1 in. dia., 27 ins. in the ground, for 6½ Mile mon. of the Theodore Roosevelt Indian School, with brass cap marked

T 5 N / 6½ M
 S 33 / TRIS
 R 22 E /
 1929

and raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor. (Elev. 4985 ft.)

- 59.00
- 67.80
- 80.00

Descend gentle, general S. slope 15 ft. to 7 mile mon.
 Road, bears NE. and SW.
 Road, bears NE. and SW. Enter Indian village.
 Set an iron post, 3 ft. long, 2 ins. dia., 22 ins. in the ground, to solid rock, supported by a mound of stone, 2 ft. base, 6 ins. high, for 7 Mile mon. of the Theodore Roosevelt Indian School, with brass cap marked

T 4½ N / 7 M
 S 33 / TRIS
 R 22 E /
 1929

and raise a mound of stone, 3 ft. base, 1½ ft. high, W. of cor. (Elev. 4970 ft.)

Land, gentle rolling valley. Soil, adobe and lava rock. Timber, very scattering scrub juniper. Undergrowth, sage, grass, yucca, cactus.

- 2.00
- 8.00
- 8.50
- 9.50
- 10.60
- 12.00
- 13.30
- 19.30
- 25.10
- 28.00
- 30.80
- 31.20
- 32.00
- 35.00

S. 7° 15' W. on a true line on 8th mile.
 Over gentle sloping mesa, leaving Indian village, Descend 5 ft. to
 Top of bluff bank, bears N. 70° E. and S. 70° W. Descend 115 ft. to river bottom.
 Road, bears E. to State Highway and W. to Canyon Day School.
 Ditch, dry, course NW.
 Dry ditch, 3 lks. wide, 2 ft. deep, course W. and wire fence, bears NW. and SE.
 Enter river bottom, bears NE. and SW. Descend 15 ft. to
 Right bank of White River, course S. 80° W.
 Left bank of White River, course S. 80° W. Ascend 155 ft. to spur. Over river bottom land.
 Telephone line, bears E. and W.
 Wire fence, bears E. and W.
 Wire fence, bears NE. and SW. Over cultivated field.
 Wire fence, bears E. and W.
 Road, bears E. to Fort Apache and W. (about 7 chs.) to Canyon Day School.
 Dry ditch, 5 lks. wide, 3 ft. deep, course W. Leave river bottom and ascend rocky N. slope.
 Rocky spur, slopes NW. Descend SW. slope 25 ft. to

Survey of the Boundaries of
the Theodore Roosevelt Indian School.

Chains

40.00 Set an iron post, 3 ft. long, 3 ins. dia., 12 ins. in the ground to solid rock, supported by a mound of stone, 3 ft. base, 1½ ft. high, for 7½ Mile mon. and Cor. No. 3 of the Theodore Roosevelt Indian School, with brass cap marked

7½ M
TRIS
COR 3
T 4½ N R 22 E
1929

No suitable trees for bearing trees. (Elev. 4965 ft.)

Thence

N. 68° 34' E. on a true line, continuing measurement, on 8 th mile.

Over rolling and broken land, through scattering timber and undergrowth. Ascend 35 ft. to

50.00 Spur, slopes NW. Descend NE. slope 120 ft. to

61.00 Ravine, course N. Ascend NW. slope 70 ft. to

64.00 Spur, slopes N. Descend NE. slope 60 ft. to

75.40 Ravine, course NW. Ascend 10 ft. to witness cor.

76.30 Road, bears NW. and SE.

77.30 Low point of spur, slopes S.

78.00 Trail, bears NE. and SW.

79.50 Set an iron post, 3 ft. long, 2 ins. dia., 27 ins. in the ground, for witness cor. to the 8 Mile mon. of the Theodore Roosevelt Indian School, with brass cap marked

8M
TRIS
WC
T 4½ N R 22 E
1929

and raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor. (Elev. 4900 ft.)

80.00 True point for 8 Mile mon. of the Theodore Roosevelt Indian School, falls in ravine, course SW., an unsafe place to set a permanent mon.

Land, rolling and broken hills. Soil, rock, gravel, adobe. Timber, scattering juniper, pinion. Undergrowth, mountain mahogany, buck brush, yucca, cactus.

From true point for 8 Mile mon.,

N. 68° 34' E. on a true line on 9 th Mile.

Over mountainous land through timber and undergrowth. Ascend 320 ft. to spur.

4.20 Drain, course SW.

21.10 Spur, slopes NW. Descend 40 ft. to

23.00 Ravine, course N. Ascend SW. slope 90 ft. to 8½ mile mon.

29.00 Over general N. slope, descending 20 ft. to 8½ mile mon.

29.80 Trail, bears N. and S.

38.00 Spur, slopes N.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 27 ins. in the ground, for 8½ Mile mon. of the Theodore Roosevelt Indian School, with brass cap marked

8½ M
TRIS
T 4½ N R 22 E
1929

from which

A pinion, 6 ins. dia., bears N. 27° E., 69 lks. dist., marked 8½ M TRIS BT.

A pinion, 6 ins. dia., bears N. 6° W., 32 lks. dist., marked 8½ M TRIS BT. (Elev. 5250 ft.)

Descend 45 ft. to drain.

Survey of the Boundaries of
the Theodore Roosevelt Indian School.

Chains

40.40 Trail, bears N. and S.
 43.00 Drain, course NE. Ascend 35 ft. to
 53.50 Spur, slopes N. Descend 205 ft. to
 67.40 Ravine, course NW. Ascend 85 ft. to spur.
 68.50 Old road, bears N. and S.
 72.00 Spur, slopes N., also old road, bears N. and S. Descend
 50 ft. to
 75.80 Ravine, course NW. Ascend SW. slope 100 ft. to
 80.00 Set an iron post, 3 ft. long, 2 ins. dia., 27 ins. in the
 ground, for 9 mile mon. of the Theodore Roosevelt In-
 dian, School, with brass cap marked

9 M
TRIS

T 4 $\frac{1}{2}$ N R 22 E
1929

from which

- A pinion, 4 ins. dia., bears N. 1 $\frac{1}{4}$ ° E., 110 lks. dist.,
marked 9 M TRIS BT.
- A pinion, 4 ins. dia., bears N. 38 $\frac{1}{4}$ ° W., 91 lks. dist.,
marked 9 M TRIS BT. (Elev. 5170 ft.)

Land, rolling mountains. Soil, rock, gravel, adobe. Tim-
ber, juniper, pinion, oak. Undergrowth, mountain ma-
hogany, manzanita, yucca, cactus.

N. 68° 34' E. on a true line on 10th mile.
 Over rolling mountains, through scattering timber and un-
 dergrowth. Ascend 85 ft. to spur.
 1.60 Old road, bears N. and S.
 7.00 Spur, slopes NW. Descend 95 ft. to
 11.20 Ravine, course NE. Ascend 140 ft. to
 18.00 Spur, slopes N. Descend 110 ft. to ravine.
 21.40 Old road, bears N. and S.
 27.90 Ravine, course NE. Ascend brushy NW. slope 45 ft. to
 30.00 Ascend 20 ft. over general N. slope to
 39.00 Spur, slopes N. Descend 35 ft. to
 40.00 Set an iron post, 3 ft. long, 1 in. dia., 22 ins. in the
 ground, to solid rock, supported by a mound of stone, 2
 ft. base, 6 ins. high, for 9 $\frac{1}{2}$ Mile mon. of the Theodore
 Roosevelt Indian School, with brass cap marked

9 $\frac{1}{2}$ M
TRIS

T 4 $\frac{1}{2}$ N R 23 E
1929

from which

- A pinion, 4 ins. dia., bears N. 26 $\frac{1}{4}$ ° E., 50 lks. dist.,
marked 9 $\frac{1}{2}$ M TRIS BT.
- A pinion, 4 ins. dia., bears N. 17 $\frac{1}{2}$ ° W., 47 lks. dist.,
marked 9 $\frac{1}{2}$ M TRIS BT. (Elev. 5220 ft.)
- Flag Pole at Fort Apache, bears N. 16° 31' E.

Descend 90 ft. to
 43.30 Ravine, course NE. Ascend 45 ft. to
 46.00 Spur, slopes N. Descend NE. slope 125 ft. to
 62.20 Ravine, course NW. Ascend 15 ft. to
 63.60 Flat spur, slopes N., also old road, bears N. and S. De-
 scend 65 ft. to
 69.40 Ravine, course NW., also trail, bears NW. and SE. Ascend
 145 ft. to 10 mile mon.
 78.30 Low spur, slopes S.
 80.00 Set an iron post, 3 ft. long, 2 ins. dia., 27 ins. in the
 ground, for 10 Mile mon. of the Theodore Roosevelt In-
 dian School, with brass cap marked

10 M
TRIS

S 35
T 5 N R 22 E
1929

Survey of the Boundaries of
the Theodore Roosevelt Indian School.

Chains	<p>from which A juniper, 6 ins. dia., bears N. 27° E., 48 lks. dist., marked 10 M TRIS BT. A pinion, 4 ins. dia., bears N. 63° W., 53 lks. dist., marked 10 M TRIS BT. (Elev. 5145 ft.)</p> <p>Land, rolling mountains. Soil, rock, gravel, adobe. Timber, juniper, pinion, oak. Undergrowth, manzanita, cactus, yucca, mountain mahogany.</p>
4.20 10.30 19.00 22.00 40.00	<p>N. 68° 34' E. on a true line on 11th mile. Over rolling mountains, through dense timber and scattering undergrowth. Ascend 155 ft. to 19.00 chs. Drain, course SW. Trail, bears N. and S. Descend 15 ft. along general N, slope to Descend SE. slope 95 ft. to Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for 10½ Mile mon. of the Theodore Roosevelt Indian School, with brass cap marked</p> <p style="text-align: center;">10½ M TRIS S 36 T 5 N R 22 E 1929</p>
42.50 42.70 48.50 50.00 54.00 60.00 60.61 68.20 70.30 74.00 77.00 80.00	<p>from which A juniper, 6 ins. dia., bears N. 82 3/4° W., 50 lks. dist., marked 10½ M TRIS BT. A juniper, 6 ins. dia., bears N. 60° W., 41 lks. dist., marked 10½ M TRIS BT. (Elev. 5190 ft.)</p> <p>Descend 65 ft. to ravine. Old road, bears NW. and SE. Ravine, course NW. Ascend 115 ft. to spur at 60.00 chs. Spur, slopes NW. Drain, course NW. Drain, course NW. Spur, slopes N. Descend 115 ft. to ravine. Point, from which the flag pole at Fort Apache bears N. 59° 21' W. Old road, bears N. and S. Ravine, course N. Ascend 85 ft. to Spur, slopes N. Descend 60 ft. to 11 mile mon. Old road, bears NE. and SW. Set an iron post, 3 ft. long, 2 ins. dia., 27 ins. in the ground, for 11 Mile mon. of the Theodore Roosevelt Indian School, with brass cap marked</p> <p style="text-align: center;">11 M TRIS S 36 T 5 N R 22 E 1929</p>
1.70 11.80 15.40	<p>from which A pinion, 6 ins. dia., bears N. 78½° W., 78 lks. dist., marked 11 M TRIS BT. A juniper, 6 ins. dia., bears N. 22° W., 104 lks. dist., marked 11 M TRIS BT. (Elev. 5250 ft.)</p> <p>Land, rolling mountains. Soil, rock, gravel, adobe. Timber, juniper, pinion, oak. Undergrowth, mountain mahogany, manzanita, yucca, cactus.</p> <p>N. 68° 34' E. on a true line on 12th mile. Over rolling hills, through scattering timber and undergrowth. Descend 120 ft. to ravine. Drain, course NE. Ravine, course N. Ascend 50 ft. to Spur, slopes N., also trail, bears N. and S. Descend 55 ft. to</p>

Survey of the Boundaries of
the Theodore Roosevelt Indian School.

3886

Chains

21.00 Drain, course N. Ascend 5 ft. to
 29.50 Wash, 15 lks. wide, 10 ft. deep, course NW. Ascend 70 ft.
 37.40 Spur, slopes N. Descend 10 ft. to
 40.00 Set an iron post, 3 ft. long, 1 in. dia., 14 ins. in the
 ground to solid rock, supported by a mound of stone, 3
 ft. base, 1 ft. high, for 11½ Mile mon. of the Theodore
 Roosevelt Indian School, with brass cap marked

11½ M
 TRIS
 S 31
 T 5 N R 23 E
 1929

from which

A pinion, 6 ins. dia., bears N. 1 3/4° E., 127 lks.
 dist., marked 11½ M TRIS BT.

A juniper, 4 ins. dia., bears N. 45° E., 78 lks.
 dist., marked 11½ M TRIS BT. (Elev. 5190 ft.)

Descend 95 ft. to drain.

54.70 Road, bears NW. and SE.
 60.70 Wire fence, bears NW. and SE.
 62.30 Wire fence, bears NE. and SW.
 62.80 Road, bears NE. and S.
 62.90 Drain, course NE. Descend 5 ft. to Seven Mile Wash.
 63.30 Wire fence, and telephone line, bear NE. and S. Enter
 corn field.
 67.70 Leave corn field. Enter Seven Mile Wash, 60 lks. wide, 10
 ft. deep, course N. Ascend 35 ft. to 12 mile mon.
 70.80 Wire fence, bears N. and S.
 72.10 E. end of flume, course NW.
 74.10 Road, bears N. and S.
 75.90 Dry ditch, 8 lks. wide, 1½ ft. deep, course SW.
 79.70 Trail, bears NW. and SE.
 80.00 The original SE. cor. (Cor. No. 4) of the Fort Apache Mil-
 itary Reserve, which is a mound of stone, 4 ft. base, 1
 ft. high, positively identified by an old Apache Indian,
 resident of this vicinity at the time of, and since the
 original survey. In the old mound,
 Set an iron post, 3 ft. long, 3 ins. dia., 27 ins. in the
 ground, for the 12 mile mon. and Cor. No. 4 of the Theo-
 dore Roosevelt Indian School, with brass cap marked

12 M
 TRIS / T 5 N
 COR 4 / S 31
 R 23 E
 1929

from which

A pinion, 6 ins. dia., bears N. 66 3/4° W., 216 lks.
 dist., marked 12 M COR 4 TRIS BT.

An oak, 6 ins. dia., bears N. 49 3/4° W., 34 lks. dist.,
 marked 12 M COR 4 TRIS BT. (Elev. 5125 ft.)

Land, rolling hills. Soil, rocky and gravelly adobe.
 Timber, scattering juniper, pinion, oak, cottonwood.
 Undergrowth, mountain mahogany, yucca, cactus.

Thence

N. 7° 15' E. on a true line on 13 th mile.
 Over rolling land, through scattering timber and under-
 growth. Descend 50 ft. to river.
 0.80 Ditch, dry, 5 lks. wide, 1½ ft. deep, course W.
 1.20 Road, bears E. and W.
 1.50 Fence, bears E. and W. Enter corn field.
 5.50 House, bears W., 30 lks. dist. Another house, bears E.,
 60 lks. dist.
 5.80 Wire fence, bears E. and W.
 21.00 Wire fence, bears E. and W. Leave corn field.
 22.50 E. Fork of White River, 60 lks. wide, 1½ ft. deep, course
 W. Ascend 85 ft. to 12½ mile mon.

Survey of the Boundaries of
the Theodore Roosevelt Indian School.

Chains

24.50 Wire fence, bears NE. and SW.
 27.40 Drain, course NW.
 27.60 Wire fence, bears NW. and SE.
 28.30 Wire fence, bears E. and W.
 31.70 Wire fence, bears E. and W.
 31.80 Dry ditch, 6 lks. wide, 2 ft. deep, course W.
 33.30 Wire fence, bears E. and W.
 33.50 Main road, bears E. up river and W. to Fort Apache.
 40.00 Set an iron post, 3 ft. long, 1 in. dia., 18 ins. in the ground to solid rock, supported by a mound of stone, 3 ft. base, 1 ft. high, for 12½ Mile mon. of the Theodore Roosevelt Indian School, with brass cap marked

12½ M / T 5 N
 TRIS / S 30
 R 23 E
 1929

from which

A juniper, 8 ins. dia., bears N. 86½° W., 153 lks. dist., marked 12½ M TRIS BT.

A juniper, 6 ins. dia., bears N. 43¼° W., 97 lks. dist., marked 12½ M TRIS BT. (Elev. 5160 ft.)

Ascend gentle, general SW. slope, through scattering juniper and undergrowth, 80 ft. to 13 mile mon.

58.00 Trail, bears NW. and SE.

68.40 Drain, course SW.

80.00 Set an iron post, 3 ft. long, 2 ins. dia., 27 ins. in the ground, for 13 Mile mon. of the Theodore Roosevelt Indian School; with brass cap marked

13 M / T 5 N
 TRIS / S 30
 R 23 E
 1929

from which

A pinion, 6 ins. dia., bears S. 60° W., 96 lks. dist., marked 13 M TRIS BT.

A pinion, 6 ins. dia., bears N. 84½° W., 112 lks. dist., marked 13 M TRIS BT. (Elev. 5240 ft.)

Land, rolling valley. Soil, rocky and gravelly adobe and loam. Timber, scattering juniper, pinion, cottonwood. Undergrowth, scattering mountain mahogany, willow, pasture grasses, sage.

N. 7° 15' E. on a true line on 14th mile.
 Over rolling hills, through dense timber and scattering undergrowth. Ascend SW. slope 10 ft. to
 6.50 Descend NW. slope 35 ft. to
 11.50 Enter ravine, course SW. Ascend 5 ft. to
 13.60 Wash, 30 lks. wide, 10 ft. deep; course SW. Ascend 70 ft. to 32.00 chs.
 17.80 Telephone line, bears NW. and SE. Leave ravine.
 18.80 Trail, bears NW. and SE.
 22.00 Main road, bears NW. to Whiteriver and SE. to E. Fork of White River.
 24.00 Along general E. slope.
 32.00 Descend NE. slope 20 ft. to
 36.50 Drain, course SE. Ascend 30 ft. to
 40.00 Set an iron post, 3 ft. long, 3 ins. dia., 27 ins. in the ground, for 13½ Mile mon. and Cor. No. 5 of the Theodore Roosevelt Indian School, with brass cap marked

13½ M / T 5 N
 COR 5 / S 19
 TRIS / R 23 E
 1929

from which

A pinion, 8 ins. dia., bears S. 44¾° W., 163 lks. dist., marked 13½ M COR 5 TRIS BT.

Survey of the Boundaries of
the Theodore Roosevelt Indian School.

BOOK 2386

Chains

A pinion, 6 ins. dia., bears N. 54° W., 13¼ lks. dist., marked 13½ M COR 5 TRIS BT. (Elev. 5320 ft.)
Ascend 90 ft. to spur.
40.30 Old road, bears NE. and SW.
51.00 Wash, 30 lks. wide, 10 ft. deep, course SE.
61.00 Spur, slopes E. Descend 40 ft. to
63.50 Ravine, course SE. Ascend 65 ft. to
70.60 Drain, course E. Ascend 40 ft. to 1¼ mile mon.
76.10 Drain, course SE.
79.40 Trail, bears NW. and SE.
80.00 Set an iron post, 3 ft. long, 2 ins. dia., 27 ins. in the ground, for 1¼ Mile mon. of the Theodore Roosevelt Indian School, with brass cap marked,

14 M / T 5 N
TRIS / S 19
R 23 E
1929

from which
A pinion, 8 ins. dia., bears S. 79¼° E., 61 lks. dist., marked 14 M TRIS BT.
A pinion, 8 ins. dia., bears N. 58¼° W., 38 lks. dist., marked 14 M TRIS BT. (Elev. 5475 ft.)

Land, rolling hills. Soil, rocky and gravelly adobe. Timber, juniper, pinion, oak. Undergrowth, manzanita, mountain mahogany, yucca.

N. 7° 15' E. on a true line on 15 th mile.
Over rolling mountains, through heavy timber and scattering undergrowth. Ascend general SE. slope 20 ft. to spur.
1.40 Trail, bears NW. and SE.
1.60 Drain, course SE.
5.00 Low spur, slopes E. Ascend 160 ft. to ridge.
8.45 Drain, course SE.
15.50 Drain, course SE.
25.00 Ridge, bears NE. and SW. Descend 200 ft. to
33.50 Ravine, course W. Ascend 170 ft. to
40.00 Set an iron post, 3 ft. long, 1 in. dia., 12 ins. in the ground, to solid rock, supported by a mound of stone, 3 ft. base, 1½ ft. high, for 1¼½ Mile mon. of the Theodore Roosevelt Indian School, with brass cap marked

14½ M / T 5 N
TRIS / S 18
R 23 E
1929

from which
A pinion, 8 ins. dia., bears N. 81° W., 37 lks. dist., marked 14½ M TRIS BT.
A juniper, 4 ins. dia., bears N. 8° W., 92 lks. dist., marked 14½ M TRIS BT. (Elev. 5625 ft.)

40.50 Spur, slopes SW. Descend 100 ft. to
45.00 Head of ravine, course W. Ascend 270 ft. to
52.80 Spur, slopes W. Descend general NW. slope 285 ft. to 70.00 chs.
54.30 Trail, bears NW. and SE. Descend over bluffs.
70.00 Descend NE. slope 170 ft. to 15 mile mon.
73.50 Drain, course NW.
79.00 Wash, 30 lks. wide, course NW.
79.60 Old road, bears NW. and SE.
80.00 The 15 Mile mon. and Cor. No. 1 of the Theodore Roosevelt Indian School, and place of beginning, hereinbefore described.

Land, rough mountains. Soil, rock, gravel, with adobe in places. Timber, juniper, pinion, oak. Undergrowth, mountain mahogany, manzanita, buck brush, yucca, cactus.

Survey of the Boundaries of
the Theodore Roosevelt Indian School.

Area of the Theodore Roosevelt Indian School, inclosed by the lines described in the foregoing field notes is 7573.42 acres.						
Latitudes, Departures and Closing Errors.						
Line designated	True bearing	Distance	Latitudes		Departures	
			N.	S.	E.	W.
North Bdy.	S. 68°34'W.	360.00	.	131.55	.	335.10
West Bdy.	S. 7°15'W.	240.00	.	238.08	.	30.29
South Bdy.	N. 68°34'E.	360.00	131.55	.	335.10	.
East Bdy.	N. 7°15'E.	240.00	238.08	.	30.29	.
Convergency		16
<u>Totals</u>			369.63	369.63	365.39	365.55
				369.63		365.39
<u>Error in latitude</u>				0.00		
<u>Error in departure</u>					0.16	

Survey of the Exchange Boundary of the Theodore Roosevelt Indian School.

BOOK 3886

Chains

From the 13½ Mile Monument and Cor. No. 5 of the Theodore Roosevelt Indian School, hereinbefore described,
 West on a true line on 16th mile.
 Over rolling mountains, through cut-over land, through mountain mahogany and manzanita. Ascend E. slope 15 ft. to spur.
 0.60 Old road, bears NE. and SW.
 5.00 Over general S. slope through juniper and pinion timber.
 8.60 Head of ravine, course S.
 10.40 Spur, slopes S. Descend 65 ft. to
 16.70 Ravine, course S. Ascend 45 ft. to 23.50 chs.
 21.00 Along general S. slope.
 23.50 Descend 80 ft. to ravine.
 25.30 Trail, bears NW. and SE.
 29.80 Telephone line, bears NW. and SE.
 32.40 Main road, bears NW. to Whiteriver and SE. to East Fork of White River.
 33.60 Ravine, course SE. Ascend 35 ft. to
 40.00 Set an iron post, 3 ft. long, 1 in. dia., 20 ins. in the ground to solid rock, supported by a mound of stone, 2 ft. base, 8 ins. high, for 15½ Mile Monument of the Theodore Roosevelt Indian School, with brass cap marked

T 5 N R 23 E
 S 19
 15½ M
 TRIS
 1929

from which

A juniper, 6 ins. dia., bears S. 16 3/4° E., 35 lks. dist., marked 15½ M TRIS BT.

A juniper, 6 ins. dia., bears N. 41½° W., 27 lks. dist., marked 15½ M TRIS BT. (Elev. 5270 ft.)

Ascend 90 ft. to spur.
 41.60 Drain, course SE.
 45.80 Spur, slopes S. Descend 135 ft. to
 55.30 Wash, 6 lks. wide, 6 ft. deep, in ravine, course SW. Ascend 20 ft. to spur.
 60.40 Road, bears N. and SW.
 68.50 Spur, slopes S. Descend 60 ft. to 16 mile monument.
 72.00 Road, bears NW. and SE.
 78.10 Road, bears NE. and SW.
 80.00 Set an iron post, 3 ft. long, 2 ins. dia., 27 ins. in the ground, for 16 Mile Monument of the Theodore Roosevelt Indian School, with brass cap marked

T 5 N R 22 E
 S 24
 16 M
 TRIS
 1929

from which

A juniper, 6 ins. dia., bears N. 12° E., 71 lks. dist., marked 16 M TRIS BT.

A pinion, 4 ins. dia., bears S. 43½° W., 20 lks. dist., marked 16 M TRIS BT. (Elev. 5185 ft.)

Land, rolling mountains. Soil, rocky and gravelly adobe. Timber, juniper, pinion, oak. Undergrowth, mountain mahogany, manzanita, buck brush.

West on a true line on 17th mile.
 Over rolling mesa, through scattering juniper and pinion. Descend general SW. slope 115 ft. to 16½ Mile Monument.
 9.60 Road, bears N. and S.
 14.00 Wash, course SW.
 27.00 Same wash, course NW.
 35.40 Old road, bears N. and S.
 40.00 Set an iron post, 3 ft. long, 1 in. dia., 27 ins. in the ground, for 16½ Mile Monument of the Theodore Roosevelt

*Removed
 Jan. 1962
 Steel pins were
 driven at 100 ft.
 and 150 ft. S. of
 removed iron post
 see B.I.R. Section
 dated Jan. 19-1962*

Survey of the Exchange Boundary of the

Theodore Roosevelt Indian School

Chains

Indian School, with brass cap marked

T 5 N R 22 E
S 24
16 1/2 M
TRIS
1929

from which

A juniper, 6 ins. dia., bears S. 62 3/4° W., 92 lks. dist., marked 16 1/2 M TRIS BT.

An oak, 6 ins. dia., bears N. 23 1/2° E., 147 lks. dist., marked 16 1/2 M TRIS BT. (Elev. 5070 ft.)

Over level mesa to bank of river.

46.50

Telephone line, bears NE. and SW.

55.30

East bank of White River canyon, bears NE. and SW. Descend 90 ft. to

57.00

N. Fork of White River, 60 lks. wide, course SW. Ascend 70 ft. to Cor. No. 6.

58.70

West bank of White River canyon, bears NE. and S.

59.00

Set an iron post, 3 ft. long, 3 ins. dia., 12 ins. in the ground to solid rock, supported by a mound of stone, 4 ft. base, 1 1/2 ft. high, for Cor. No. 6 of the Theodore Roosevelt Indian School, with brass cap marked

T 5 N R 22 E
S 24
COR 6
TRIS
1929

from which

A juniper, 8 ins. dia., bears S. 38 1/2° E., 23 lks. dist., marked COR 6 TRIS BT.

A juniper, 6 ins. dia., bears N. 22° W., 11 lks. dist., marked COR 6 TRIS BT. (Elev. 5050 ft.)

Thence, continuing measurement,

S. 7° 00' W. on a true line,

Over rocky mesa, through scattering juniper and pinion.

Along top of bluff on W. bank of N. Fork of White River.

78.00

Set an iron post, 3 ft. long, 1 in. dia., 22 ins. in the ground, supported by a mound of stone, 3 ft. base, 8 in. high, for Angle Point No. 1 of the Theodore Roosevelt Indian School, with brass cap marked

T 5 N
S 23 / AP 1
R 22 E / TRIS
1929

from which

A juniper, 12 ins. dia., bears S. 27° W., 52 lks. dist., marked AP 1 TRIS BT.

A juniper, 4 ins. dia., bears N. 31 3/4° W., 100 lks. dist., marked AP 1 TRIS BT.

Thence, continuing measurement,

S. 81° 30' W. on a true line, along top of bluff on W. bank of N. Fork of White River.

80.00

Set an iron post, 3 ft. long, 2 ins. dia., 8 ins. in the ground to solid rock, supported by a mound of stone, 4 ft. base, 1 1/2 ft. high, for 17 Mile Monument and Angle Point No. 2 of the Theodore Roosevelt Indian School, with brass cap marked

T 5 N
S 23 / 17 M
R 22 E / AP 2
TRIS
1929

from which

A juniper, 12 ins. dia., bears S. 18 1/4° E., 42 lks. dist., marked 17 M AP 2 TRIS BT.

A juniper, 18 ins. dia., bears N. 5 1/2° W., 151 lks. dist., marked 17 M AP 2 TRIS BT.

Land, rolling mesa. Soil, very rocky adobe. Timber, oak, juniper, pinion. Undergrowth, manzanita, mahogany.

Survey of the Exchange Boundary of the

Theodore Roosevelt Indian School

BOOK 3886

Chains

24.20	<p>Thence S. 38° 00' W. on a true line on 18th mile. Over gentle rolling mesa, through scattering juniper. Set an iron post, 3 ft. long, 1 in. dia., 10 ins. in the ground to solid rock, supported by a mound of stone, 4 ft. base, 1½ ft. high, for Angle Point No. 3 of the Theodore Roosevelt Indian School, with brass cap marked</p>
	<p style="text-align: center;">T 5 N S 26 / AP 3 R 22 E / TRIS 1929</p>
	<p>from which An oak, 8 ins. dia., bears S. 73 3/4° W., 17 lks. dist., marked AP 3 TRIS BT. A juniper, 6 ins. dia., bears N. 54½° W., 32 lks. dist., marked AP 3 TRIS BT.</p>
36.00	<p>Thence, continuing measurement, S. 82° 00' W. on a true line along top of bluff, along W. bank of N. Fork of White River.</p>
40.00	<p>Drain, course S., at S. end of aeroplane landing field. Set an iron post, 3 ft. long, 1 in. dia., 3 ins. in the ground to solid rock, supported by a mound of stone, 4 ft. base, 2 ft. high, for 17½ Mile Monument and Angle Point 4 of the Theodore Roosevelt Indian School, with brass cap marked</p>
	<p style="text-align: center;">T 5 N S 26 / 17½ M R 22 E / AP 4 TRIS 1929</p>
	<p>from which A juniper, 6 ins. dia., bears N. 84 3/4° W., 178 lks. dist., marked 17½ M AP 4 TRIS BT. A juniper, 9 ins. dia., bears N. 70½° W., 36 lks. dist., marked 17½ M AP 4 TRIS BT.</p>
46.00	<p>Thence, continuing measurement, S. 60° 30' W. on a true line along top of bluff on W. bank of N. Fork of White River. Over rocky mesa.</p>
	<p>Set an iron post, 3 ft. long, 1 in. dia., 10 ins. in the ground to solid rock, supported by a mound of stone, 4 ft. base, 1½ ft. high, for Angle Point No. 5 of the Theodore Roosevelt Indian School, with brass cap marked</p>
	<p style="text-align: center;">T 5 N S 26 / AP 5 R 22 E / TRIS 1929</p>
	<p>from which A juniper, 4 ins. dia., bears S. 25° E., 62 lks. dist., marked AP 5 TRIS BT. A juniper, 6 ins. dia., bears N. 56½° W., 140 lks. dist., marked AP 5 TRIS BT.</p>
52.10	<p>Thence, continuing measurement, S. 10° 30' W. on a true line along top of bluff on W. bank of N. Fork of White River. Over rocky mesa.</p>
	<p>Set an iron post, 3 ft. long, 1 in. dia., 12 ins. in the ground to solid rock, supported by a mound of stone, 4 ft. base, 1½ ft. high, for Angle Point No. 6 of the Theodore Roosevelt Indian School, with brass cap marked</p>
	<p style="text-align: center;">T 5 N S 26 / AP 6 R 22 E / TRIS 1929</p>
	<p>from which A juniper, 4 ins. dia., bears N. 33° E., 34 lks. dist., marked AP 6 TRIS BT. A juniper, 8 ins. dia., bears N. 59½° W., 16 lks. dist., marked AP 6 TRIS BT.</p>
	<p>Thence, continuing measurement, S. 68° 45' W. on a true line along top of bluff on W. bank of N. Fork of White River.</p>

Survey of the Exchange Boundary of the

Theodore Roosevelt Indian School

Chains

67.10	Drain, course SW.
68.00	Set an iron post, 3 ft. long, 1 in. dia., 16 ins. in the ground, to solid rock, supported by a mound of stone, 3 ft. base, 1 ft. high, for Angle Point No. 7 of the Theodore Roosevelt Indian School, with brass cap marked
	T 5 N S 26 / AP 7 R 22 E / TRIS 1929
	from which
	A juniper, 6 ins. dia., bears S. $4\frac{1}{2}^{\circ}$ W., 34 lks. dist., marked AP 7 TRIS BT.
	A juniper, 4 ins. dia., bears N. 59° W., 100 lks. dist., marked AP 7 TRIS BT.
	Thence, continuing measurement, S. $20^{\circ} 00'$ W. on a true line along top of bluff on W. bank of N. Fork of White River, over mesa.
68.30	Drain, course SE.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 26 ins. in the ground, for 18 Mile Monument of the Theodore Roosevelt Indian School, with brass cap marked
	T 5 N / R 22 E S 26 / 18 M TRIS 1929
	from which
	A juniper, 4 ins. dia., bears N. $72\frac{1}{4}^{\circ}$ E., 41 lks. dist., marked 18 M TRIS BT.
	A juniper, 4 ins. dia., bears N. $4\frac{1}{2}^{\circ}$ W., 166 lks. dist., marked 18 M TRIS BT.
	Land, gentle sloping mesa. Soil, lava rock and adobe. Timber, juniper, pinion, oak. Undergrowth, mountain mahogany, buck brush.
	Thence
	S. $20^{\circ} 00'$ W. on a true line on 19th mile, along top of bluff on W. bank of N. Fork of White River. Over mesa.
16.00	Set an iron post, 3 ft. long, 1 in. dia., 4 ins. in the ground to solid rock, supported by a mound of stone, 4 ft. base, 2 ft. high, for Angle Point No. 8 of the Theodore Roosevelt Indian School, with brass cap marked
	T 5 N S 26 / AP 8 R 22 E / TRIS 1929
	from which
	A juniper, 6 ins. dia., bears S. $26\frac{3}{4}^{\circ}$ E., 14 lks. dist., marked AP 8 TRIS BT.
	A juniper, 6 ins. dia., bears N. $29\frac{3}{4}^{\circ}$ W., 95 lks. dist., marked AP 8 TRIS BT.
	Thence, continuing measurement, S. $34^{\circ} 15'$ W. on a true line along top of bluff on W. bank of N. Fork of White River, over lava covered mesa.
20.80	Drain, course SE.
22.50	Set an iron post, 3 ft. long, 1 in. dia., 9 ins. in the ground to solid rock, supported by a mound of stone, 3 ft. base, $1\frac{1}{2}$ ft. high, for Angle Point No. 9 of the Theodore Roosevelt Indian School, with brass cap marked
	T 5 N S 26 / AP 9 R 22 E / TRIS 1929
	from which
	A pinion, 4 ins. dia., bears N. 1° E., 33 lks. dist., marked AP 9 TRIS BT.
	A juniper, 12 ins. dia., bears S. $52\frac{3}{4}^{\circ}$ E., 79 lks. dist., marked AP 9 TRIS BT.

Survey of the Exchange Boundary of the Theodore Roosevelt Indian School

BOOK 3886

Chains

36.50

Thence, continuing measurement, S. 9° 45' W. on a true line along top of bluff on W. bank of N. Fork of White River; over mesa.

Set an iron post, 3 ft. long, 1 in. dia., 10 ins. in the ground to solid rock, supported by a mound of stone, 4 ft. base, 1 1/2 ft. high, for Angle Point No. 10 of the Theodore Roosevelt Indian School, with brass cap marked

T 5 N
S 26 \ AP 10
R 2 2E TRIS
1929

from which

A juniper, 6 ins. dia., bears S. 61 3/4° W., 63 lks. dist., marked AP 10 TRIS BT.

A juniper, 6 ins. dia., bears N. 61 1/4° W., 54 lks. dist., marked AP 10 TRIS BT.

40.00

Thence, continuing measurement, S. 12° 15' E. on a true line along top of bluff on W. bank of N. Fork of White River, over mesa.

Set an iron post, 3 ft. long, 1 in. dia., 12 ins. in the ground to solid rock, supported by a mound of stone, 3 ft. base, 15 ins. high, for 18 1/2 Mile Monument of the Theodore Roosevelt Indian School, with brass cap marked

T 5 N
S 26 \ 18 1/2 M
R 22 E TRIS
1929

from which

A juniper, 4 ins. dia., bears S. 23 3/4° W., 32 lks. dist., marked 18 1/2 M TRIS BT.

43.30

Thence continuing measurement, S. 12° 15' E. on a true line along top of bluff on W. bank of N. Fork of White River, over mesa.

Set an iron post, 3 ft. long, 1 in. dia., 8 ins. in the ground to solid rock, supported by a mound of stone, 4 foot base, 1 1/2 ft. high, for Angle Point No. 11 of the Theodore Roosevelt Indian School, with brass cap marked

T 5 N
S 26 \ AP 11
R 22 E TRIS
1929

from which

A juniper, 4 ins. dia., bears N. 58 1/4° W., 46 lks. dist., marked AP 11 TRIS BT.

49.30

Thence, continuing measurement, S. 37° 15' W. on a true line along top of bluff on W. bank of N. Fork of White River, over mesa.

A point about 8 chs. W. of the junction of the N. Fork and the E. Fork of White River, on top of bluff W. bank; Set an iron post, 3 ft. long, 3 ins. dia., 4 ins. in the ground to solid rock, supported by a mound of stone, 4 ft. base, 2 ft. high, for Cor. No. 7 of the Theodore Roosevelt Indian School, with brass cap marked

T 5 N R 22 E
S 35 \ COR 7
TRIS
1929

from which

A juniper, 18 ins. dia., bears N. 20 1/4° E., 11 lks. dist., marked COR 7 TRIS BT. (Elev. 4995 ft.)

51.20

Thence, continuing measurement, West on a true line over gentle sloping mesa. Ascend 15 ft. to State Highway:

59.60

Head of drain, course SE:

64.60

Drain, course S.
State Highway, bears NE. to Whiteriver and SW. to Globe. Ascend 20 ft. to Cor. No. 8.

70.30

Drain, course S.

Survey of the Exchange Boundary of the

Theodore Roosevelt Indian School

Chains 73.80	<p>Set an iron post, 3 ft. long, 3 ins. dia., 26 ins. in the ground, for Cor. No. 8 of the Theodore Roosevelt Indian School, with brass cap marked</p> <p style="text-align: center;">T 5 N R 22 E S 34</p> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;"> <p style="margin: 0;">COR 8 TRIS</p> </div> <p style="text-align: center;">1929</p> <p>and raise a mound of stone, 3 ft. base, 2 ft. high, SE. of cor., from which (Elev. 5030 ft.) W. end of Service Station, bears S. 49° 56' E. W. end of new building, bears S. 38° 39' E. Sign post, at forks of road, bears S. 22° 45' E.</p> <p>Thence, continuing measurement, South on a true line, over gentle sloping mesa. Descend 10 ft. to 19 Mile Monument.</p>
76.10	Drain, course SE.
77.80	Drain, course SE.
80.00	<p>Set an iron post, 3 ft. long, 2 ins. dia., 27 ins. in the ground, for 19 Mile Monument of the Theodore Roosevelt Indian School, with brass cap marked</p> <p style="text-align: center;">T 5 N S 34 19 M R 22 E TRIS</p> <p style="text-align: center;">1929</p> <p>and raise a mound of stone, 3 ft. base, 2 ft. high, E. of cor. (Elev. 5020 ft.)</p> <p>Land, gentle sloping mesa. Soil, lava rock and adobe. Timber, juniper, pinion, oak. Undergrowth, mahogany.</p>
	<p>South on a true line on 20th mile. Descend 15 ft. over gentle sloping mesa to highway.</p>
1.00	Drain, course SE.
4.80	State Highway, bears NE. to Whiteriver and SW. to Globe. Descend 15 ft. to top of bluff.
8.34	<p>A point, from which W. end of service station bears N. 37° 02' E. W. end of new building, bears N. 40° 31' E. Sign post, at forks of road, bears N. 33° 11' E.</p>
8.90	Top of bluff, bears NE. and SW. Descend 125 ft. to river.
10.00	Slaughter house, bears E., about 7 chs. dist.
11.50	Right bank of White River, course SW.
12.60	Left bank of White River, bears SW. Ascend cliffs 120 ft.
21.00	Top of bluff, bears E. and W. Descend over mesa 5 ft. to
24.00	Descend rolling SW. slope 80 ft. to 19½ Mile Monument.
37.00	Ravine, course NW.
39.70	Drain, slopes NW.
40.00	<p>Set an iron post, 3 ft. long, 1 in. dia., 27 ins. in the ground, for 19½ Mile Monument of the Theodore Roosevelt Indian School, with brass cap marked</p> <p style="text-align: center;">19½ M TRIS</p> <p style="text-align: center;">T 5 N R 22 E S 34</p> <p style="text-align: center;">1929</p> <p>from which An oak, 6 ins. dia., bears S. 20½° E., 118 lks. dist., marked 19½ M TRIS BT. A juniper, 4 ins. dia., bears N. 50¼° W., 97 lks. dist., marked 19½ M TRIS BT. (Elev. 4900 ft.)</p>
40.30	Ascend 15 ft. to 45.00 chs. Telephone line, bears NE. and SW.
42.50	Road, bears E. and W.
45.00	Ascend N. slope 85 ft. to
49.00	Spur, slopes W. Ascend general W, slope of mesa 10 ft. to
61.00	Descend SW. slope 25 ft. to
64.70	Ravine, course NW. Ascend 15 ft. to

Survey of the Exchange Boundary of the

Theodore Roosevelt Indian School

BOOK 3886

Chains

71.50
74.00
80.00

Spur, slopes E. Ascend 50 ft. to
Ravine, course NE. Ascend 75 ft. to
Set an iron post, 3 ft. long, 2 ins. dia., 27 ins. in the
ground, for 20 Mile Monument of the Theodore Roosevelt
Indian School, with brass cap marked

T 4 $\frac{1}{2}$ N R 22 E
| .20 M
| TRIS
1929

from which

- A pinion, 4 ins. dia., bears S. 68° E., 76 lks. dist., marked 20 M TRIS BT.
- A pinion, 10 ins. dia., bears N. 34 $\frac{1}{4}$ ° W., 93 lks. dist., marked 20 M TRIS BT. (Elev. 5155 ft.)

Land, rolling mesa and hills. Soil, rocky and gravelly adobe. Timber, juniper, pinion, oak. Undergrowth, mountain mahogany, manzanita, buck brush.

1.60
8.29

South on a true line on 21st mile.
Over rolling hills through heavy timber and undergrowth.
Ascend 30 ft. to

Spur, slopes NW. Descend SW. slope 10 ft. to
Intersect S. bdy. of the Theodore Roosevelt Indian School
at a point N. 68° 34' E., 115 lks. from the 9 Mile Monument,
hereinbefore described. At point of intersection,
Set an iron post, 3 ft. long, 3 ins. dia., 24 ins. in the
ground to solid rock, supported by a mound of stone, 2
ft. base, 6 ins. high, for Cor. No. 9 of the Theodore
Roosevelt Indian School, with brass cap marked

T 4 $\frac{1}{2}$ N R 22 E
| TRIS
| COR 9
1929

from which

- A juniper, 10 ins. dia., bears N. 15 $\frac{1}{2}$ ° E., 81 lks. dist., marked COR 9 TRIS BT.
- A pinion, 6 ins. dia., bears N. 66° W., 67 lks. dist., marked COR 9 TRIS BT. (Elev. 5175 ft.)

Land, rolling hills. Soil, gravelly adobe. Timber, oak, juniper, pinion. Undergrowth, mountain mahogany, manzanita, buck brush.

Area of the SE. portion of the Theodore Roosevelt Indian School, inclosed by the lines described in the foregoing field notes is 3074.08 acres.

S. E. Portion of the Territory of the

Theodore Roosevelt Indian School

Latitudes, Departures and Closing Errors.							
Line designated	True bearing	Distance	Latitudes		Departures		
			N.	S.	E.	W.	
South Bdy.	N. 68°34'E.	238.85	87.28	.	222.33	.	
East Bdy.	N. 7°15'E.	120.00	119.04	.	15.14	.	
North Bdy.	West	139.00	.	.	.	139.00	
Exchange Bdy.	West Bdy.	S. 7°00'W.	.	18.86	.	2.32	
		S. 81°30'W.	.	.30	.	1.98	
		S. 38°00'W.	.	19.07	.	14.90	
		S. 82°00'W.	.	2.20	.	15.65	
		S. 60°30'W.	.	2.95	.	5.22	
		S. 10°30'W.	.	6.00	.	1.11	
		S. 68°45'W.	.	5.76	.	14.82	
		S. 20°00'W.	.	26.31	.	9.58	
		S. 34°15'W.	.	5.37	.	3.66	
		S. 9°45'W.	.	13.80	.	2.37	
		S. 12°15'E.	.	6.65	1.44	.	
		S. 37°15'W.	.	4.78	.	3.63	
		West	24.50	.	.	.	24.50
		South	94.49	.	94.49	.	.
Convergency		07	
Totals			206.32	206.54	238.91	238.81	
				206.32	238.81		
Error in latitude				0.22			
Error in departure					0.10		

GENERAL DESCRIPTION.

The land within the boundaries of the Theodore Roosevelt Indian School is rolling mesa and low hills, with the NE. portion extending into the mountains. A high, lava ridge extends into the NW. part of the reservation. The N. Fork of White River flows across the reserve in a general southwesterly direction and the E. Fork of White River flows westerly to a junction with it a little S. of the center.

The soil is a heavy, red adobe of a thickness varying from three inches to a considerable depth. The upland contains much lava rock and gravel, while the bottom land is mixed with considerable sand and silt. The bottom land is cultivated and planted to various crops, mainly corn and hay, with a few scattering fruit trees.

The NW., E. and S. portions are covered with second growth juniper and pinion timber, with scattering oaks, the original timber having been cut for firewood for Fort Apache.

The undergrowth is mountain mahogany, manzanita, cat-claw, buck brush, etc. Native grasses are abundant on the open land in the years when there is sufficient rainfall.

The Theodore Roosevelt Indian School is located on the site of the former Fort Apache and is about 60 miles from Rice, Ariz. and about 27 miles from McNary, Ariz. Some of the buildings, built for Army quarters, remain and are used by the school. The State Highway from Globe to Holbrook, Arizona, passes about a half mile W. of the school. The town of Whiteriver, headquarters for the Fort Apache Indian Reservation, is about 4 miles from the school and is located a short distance N. of the N. bdy. of the former Fort Apache Military Reservation.

There is no known mineral on the land.

There is no water, except in the N. and E. Forks of the White River. During the summer months, there are thunder storms almost daily, although they do not always reach to the school reserve. During the winter, snow falls to a slight extent. Elevations range from about 4800 to about 5800 ft. above sea level.

Numerous Apache Indians live on and near the Theodore Roosevelt Indian School, and there are very many roads and trails running in all directions.

BOOK 3886

CERTIFICATE OF UNITED STATES SURVEYOR.

I, John L. Warboys, U. S. Surveyor, hereby certify upon honor that, in pursuance of special instructions received from the District Cadastral Engineer, for Groups Nos. 148 & 154, Arizona, bearing dates of the 15th day of September, 1927, and 15th day of November, 1928, respectively, I have well, faithfully, and truly in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the Boundaries of the Theodore Roosevelt Indian School, and Exchange Boundary within said School Reservation, in Fractional Townships 4 North, Ranges 22 and 23 East, and Townships 5 North, Ranges 22 and 23 East

of the Gila and Salt River Base and Meridian, in the State of Arizona, which are represented in the foregoing field notes and by diagram on page 1 hereof as having been executed by me, and under my direction; and 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 District Cadastral Engineer, for Groups Nos. 148 & 154, Arizona, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Place: San Francisco, California, Date: January 22, 1930.

John L. Warboys, U. S. Surveyor.

APPROVAL.

OFFICE OF U. S. SUPERVISOR OF SURVEYS,

Denver, Colo., October 24, 1930.

The foregoing field notes of the survey of the Boundaries of the Theodore Roosevelt Indian School (identical in position with the boundaries of the abandoned Fort Apache Military Reserve), and of the Exchange Boundary within said School Reservation, situated in Fractional Townships 4 North, Ranges 22 and 23 East, and Townships 5 North, Ranges 22 and 23 East

of the Gila and Salt River Base and Meridian, in the State of Arizona executed by John L. Warboys, U.S. Surveyor

under his special instructions dated Sept. 15, 1927 for Group 148, and Nov. 15, 1928 for Group 154, Arizona, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

U. S. Supervisor of Surveys.

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

U. S. Supervisor of Surveys.