

3692

Orig. 117

Book "C"

4-879

BOOK 3692

# FIELD NOTES

OF THE RETRACEMENT of

Part of the West bdy. of the White Mountain Indian Reservation,

(70 $\frac{1}{2}$  M. to 76 $\frac{1}{2}$  M. mon.); AND OF THE SURVEY OF

Part of the North boundary,

Part of the South boundary, and

Part of the Subdivision lines of

TOWNSHIP 2 SOUTH, RANGE 16 EAST,

Of the Gila and Salt River Base and Meridian,

In the State of Arizona.

EXECUTED BY

William B. Kimmel, U. S. Cadastral Engineer,

and

Roger F. Wilson, U. S. Transitman,

*In the capacity of U. S. Surveyors, under Special Instructions dated October 15., 1923, issued by the United States Surveyor General to govern surveys included in Group No. 124, Arizona, which were approved by the Commissioner of the General Land Office, November 3., 1923, and Assignment Instructions dated November 7., 1923.*

Retracement & Survey commenced December 14., 1923.

Retracement & Survey completed December 29., 1923.

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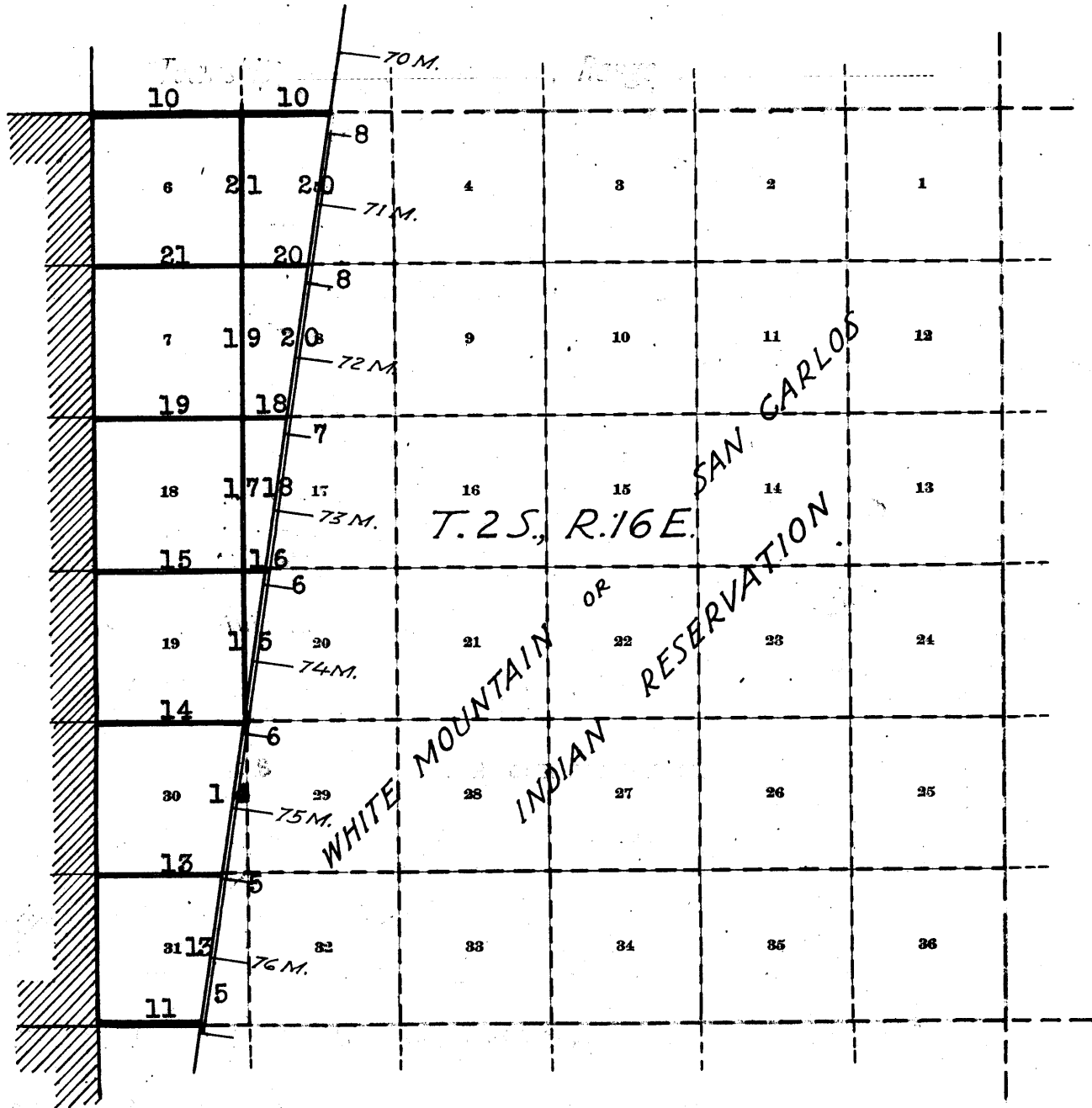
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BOOK 3692

Book "C"

Group 124 - - Arizona

### INDEX DIAGRAM.



-  Lines surveyed under this Group.
-  Lines retraced under this Group.
-  Lines of accepted surveys.
-  Unsurveyed lines.
-  Areas surveyed as per accepted plats on file.

BOOK 3692

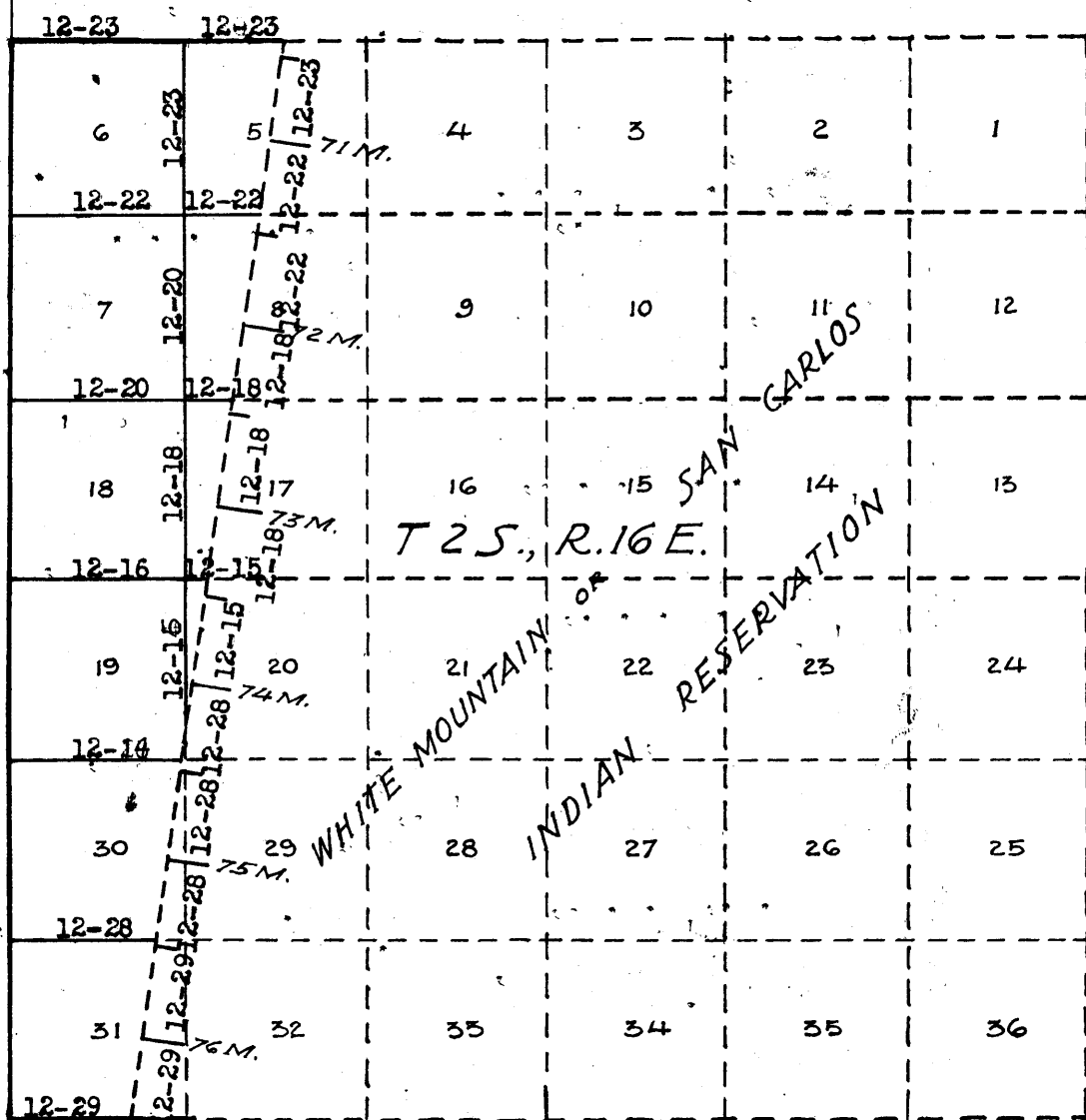
Book "C"

Group 124 - - Arizona

Township 2 South, Range 16 East

DATE DIAGRAM

1923



- Surveyed on dates shown thereon by William B. Kimmel, U. S. Cadastral Engineer.
- - - - - Retraced on dates shown thereon by William B. Kimmel, U. S. Cadastral Engineer.
- Surveyed on dates shown thereon by Roger F. Wilson, U. S. Transitman.
- - - - - Retraced on dates shown thereon by Roger F. Wilson, U. S. Transitman.
- Lines of accepted surveys.
- - - - - Unsurveyed lines.

Retracements and Surveys herein described were executed on dates shown on diagram on page 2 hereof, by Wm. B. Kimmel, U.S.C.E., and Roger F. Wilson, U.S.T., using respectively, W. and L.E. Gurley light mountain transit No. 20120, and Buff and Buff light mountain transit No. 9221, each equipped with full vertical circle and Smith solar attachment; unless otherwise specified, all azimuth determinations are accomplished with the solar attachment

Polaris observation and field test by Wm B. Kimmel, using instrument No. 20120

December 11, 1923: I examine the adjustments of the transit and correct all errors; then to test the solar apparatus, by comparing its indications, resulting from observations made during a.m. and p.m. hours with a meridian established by Polaris observation, I proceed as follows:

December 12, 1923: At camp in the center of sec. 19, T2S R16E, G. and S.R.B. and meridian, latitude  $33^{\circ}14\frac{1}{2}'N.$ , longitude  $110^{\circ}45'W.$ , at 2h 12m a.m., l.m.t., I observe Polaris at western elongation, making four observations, two each with the telescope in direct and reversed positions, and mark the mean point in line thus determined on a peg driven firmly in the ground 5 chs. N.

Azimuth of Polaris at western elongation,  $1^{\circ}18'51''$

At 7h 30m a.m., l.m.t., I lay off the azimuth of Polaris,  $1^{\circ}19'$  to the east and mark the meridian thus determined by a tack in a peg driven firmly in the ground, 5 chs. N.

At 8h 0m a.m., l.m.t., I set off  $33^{\circ}14\frac{1}{2}'N.$  on the lat. arc,  $22^{\circ}59'S.$  on the decl. arc and determine a meridian with the solar, which I find to agree with the true meridian.

At apparent noon, with the lat. arc unchanged, I observe the sun on the meridian; the resulting reading of the decl arc is  $23^{\circ}01\frac{1}{2}'S.$ , which agrees with the computed declination of the sun.

At 4h 0m p.m., l.m.t., with the lat. arc unchanged, I set off  $23^{\circ}00\frac{1}{2}'S.$  on the decl. arc and determine a meridian with the solar, which I find to agree with the true meridian.

As all of the solar observations during the usual hours of solar work come within  $1'30''$  of the true meridian I conclude that the adjustments of the instrument are satisfactory.

Survey continued by Roger F. Wilson,  
U.S. Transitman with Buff and Buff transit  
No. 9221

Final test of W. & L.E. Gurley transit  
used by Wm B. Kimmel, and preliminary  
test of Buff and Buff transit No. 9221  
used by Roger F. Wilson.

December 16, 1923: We examine the adjustments of the transits, finding instrument No. 20120 alright, and correcting all errors on Buff and Buff instrument No. 9221; then to test the solar apparatus by comparing their indications, resulting from observations made during a.m. and p.m. hours, with a meridian previously

established in the center of sec. 19, T2S R16E, G. and S.R.B. and meridian, described on page 3, by Wm. B. Kimmel.

At 8h 0m a.m., l.m.t., We set off  $33^{\circ}14'N$ . on the lat. arcs,  $23^{\circ}14'S$ . on the decl. arcs and determine a meridian with the solars, which we find to agree with the true meridian.

At apparent noon, with the lat. arcs unchanged, we observe the sun on the meridian; the resulting reading of the decl arcs is  $23^{\circ}17'S$ ., which agrees with the computed declination of the sun.

At 4h 0m p.m., l.m.t., with the lat. arcs unchanged, We set off  $23^{\circ}15'S$ . on the decl. arcs and determine a meridian with the solars, which we find to agree with the true meridian.

As all of the solar observations during the usual hours of solar work come within  $1'30''$  of the true meridian We conclude that the adjustments of the instruments are satisfactory.

Unless otherwise specified; all measurments are made with Lufkin steel tapes, 5 chs. in length, compared with a Lufkin 1 ch. standard steel tape and found correct. The measurments are made on the slope, the vertical angle determined and thes lope measurments properly reduced to true horizontal distances.

Retracement of a portion of the  
W. bdy. of the White Mountain Indian Reservation

Chains.	From the 76½ mile cor., hereinafter described. N.8°21'E., on retracement on W. bdy. of W.M.I. Reservation.
39.15	Fall 6 lks. S.81°39'E., of the 76 mile cor., hereinafter described. I return to the 76½ mile cor., which is a granite stone, 20x16x4 ins. above ground, marked WMIRWB 76½M on E. side from which An oak, 20 ins. dia., brs N74½°E., 9 lks. dist., marked WMIR WB 76½M An oak, 20 ins. dia., brs S.6°E., 28 lks. dist., marked WMIR WB 76½M
	Thence N.8°16'E., on true line on W. bdy. of White Mountain Indian Reservation Over steep mountainous land, through dense brush. Desc slightly over NE. slope.
1.78	The closing cor. of Tps 2 and 3 S., R16E., hereinafter described.
4.00	Drain, course NW.; asc. 41 ft. over SW. slope.
7.00	Spur, slopes W.; desc. 562 ft. over N. slope.
39.15	The 76 mile cor., which is a granite stone, 20x8x6 ins. above ground, firmly set, marked WMIR WB 76M on E. side, and mound of stone 3 ft. base, 2 ft. high, W. of cor. Land, rough mountains. Soil, rocky 4th rate. Timber, none. Undergrowth, oak brush and cacti.
	Thence N.8°21'E., on retracement on W. bdy. of W.M.I. Reservation.
39.60	Fall 10 lks. S.81°39'E., of the 75½ mile cor., hereinafter described. Thence from cor.
39.27	N.8°21'E., on retracement on W. bdy. of W.M.I. Reservation. Fall 9 lks. N.81°39'W., of the 75 mile cor., hereinafter described. I return to the 76 mile cor., hereinbefore described. Thence N.8°12'E., on true line on W. bdy. of White Mountain Indian Reservation. Over mountainous land, through heavy undergrowth. Desc. 112 ft. over gradual N. slope.
2.98	The ¼ sec. cor. for sec. 31, hereinafter described.
14.50	Wash, 30 lks. wide, course NE.; asc. 128 ft. over S. slope
35.10	Ridge, brs N.70°E. and S.70°W.; desc. 61 ft. over N. slope.
39.60	The 75½ mile cor., which is a granite stone, 18x14x10 ins. above ground, firmly set, marked WMIR WB 75½M Thence N.8°29'E., on true line (N½ mile)
	Desc. 378 ft. over N. slope.
3.73	The closing cor. of secs. 30 and 31, hereinafter described.
23.00	Wash, 30 lks. wide, course NE.; asc. 192 ft. over S. slope
26.00	House brs West, 8 chs. dist.
39.27	The 75 mile cor., which is a granite stone 18x14x8 ins. above ground, firmly set, marked WMIR WB 75M on E. side, with mound of stone, 3 ft. base, 2 ft. high, W. of cor. Land, mountainous. Soil, rocky and gravelly, 3rd rate. Timber, none. Undergrowth, oak brush and manzanita.

Retracement of a portion of the  
W. bdy. of the White Mountain Indian Reservation.

Chains.	
	Thence N.8°21'E., on retracement on W. bdy. of W.M.I. Reservation Fall 2 lks. S, 89°39'E., of the 74½ mile cor., hereinafter described.
39.76	Thence from cor. N.8°21'E., on retracement on W. bdy. of W.M.I. Reservation Intersect the 74 mile cor., hereinafter described. I return to the 75 mile cor., hereinbefore described.
40.14	Thence N.8°19'E., on true line on W. bdy. of White Mountain Indian Reservation. Over mountainous land, through heavy undergrowth. Asc. 57 ft. over S. slope along fence line.
4.89	The ¼ sec. cor. for sec. 30, hereinafter described.
5.00	Ridge, brs E. and W.; desc. 228 ft. over N. slope.
23.70	Wire fence projects W.
25.40	Wash, 30 lks. wide, course E.; asc. 126 ft. over S. slope. Wire fence brs S. and NW.
39.76	The 74½ mile post, which is a limestone 14x10x8 ins. above ground, firmly set, marked WMIR 74½M on E. side, a and a mound of stone 3 ft. base, 2 ft. high, W. of cor.
	Thence N.8°21'E., on true line (N½ mile)
	Asc. slightly over SE. slope.
5.10	Small drain, course S.20°E.; asc. 154 ft. over SW. slope.
5.57	The closing cor. for secs. 19 and 30, hereinafter describ- ed.
13.64	The closing cor. for secs. 19 and 20, hereinafter describ- ed.
21.00	Stream, 2 lks. wide, 1 in. deep, course SE.
22.80	Wire fence, brs E. and W.
24.50	Wire fence brs E. and W.
28.60	Spur, slopes E.; asc. 23 ft. over S. slope.
34.00	Drain, course E.; asc. 23 ft. over S. slope
40.14	The 74 mile cor., which is a limestone, 16x14x10 ins. above ground, firmly set, marked WMIR WB 74M on E. side, and mound of stone, 3½ ft. base, 2 ft. high, W. of cor.
	Land, mountainous. Soil, rocky 4th rate. Timber, none. Undergrowth, oak brush, cacti, and manzanita.
	Thence N.8°21'E., on retracement on W. bdy. of W.M.I. Reservation Fall 5 lks. N.81°39'W., of the 73½ mile cor., herein- after described.
38.62	Thence from cor. N.8°21'E., on retracement on W. bdy. of W.M.I. Reservation Fall 5 lks. N.81°39'W., of the 73 mile cor., hereinafter described.
39.41	I return to the 74 mile cor.; hereinbefore described. Thence N.8°25'E., on true line on W. bdy. of White Mountain Indian Reservation. Over mountainous land, through dense brush. Asc. gradually along fence line on S. slope.
5.87	The ¼ sec. cor. for sec. 19, hereinafter described.
8.60	Spur, slopes NE.; desc. 278 ft. over N. slope.
27.40	Drain, course E.; asc. 112 ft. over S. slope.
35.30	Spur, slopes E.; desc. 55 ft. over N. slope.
38.62	The 73½ mile cor., which is a limestone, 16x12x10 ins. above ground, firmly set, marked WMIRWB 73½M on E. side, and a mound of stone, 3 ft. base, 2 ft. high E. of cor.

Retracement of a portion of the  
W. bdy. of the White Mountain Indian Reservation

Chains.	
	Thence N.8°25'E., on true line (N½ mile)
	Desc. slightly over N. slope.
6.00	Drain, course N.70°W.; asc. 23 ft. over SW. slope.
7.69	The closing cor. of secs. 17 and 20, hereinafter described.
12.60	Spur, slopes W.; desc. 46 ft. over NW. slope.
17.60	Draw, course NE.; asc. gradual S. slope.
20.20	Point of spur, slopes E.; desc. 12 ft. over N. slope.
22.00	Drain, course S.70°E.; asc. 209 ft. over S. slope.
33.40	Ridge, brs E. and W.; desc. 110 ft. over N. slope.
39.41	The 73 mile post, which is a lime stone, 16x12x10 ins. above ground, firmly set, marked WMIRWB 73M on E. side, and a mound of stone, 3 ft. base, 2 ft. high, W. of cor.
	Land, mountainous. Soil, rocky 3rd and 4th rate. Timber, none. Undergrowth, oak brush, manzanita, and cacti.
	<hr/>
	Thence N.8°21'E., on retracement on W. bdy. of W.M.I. Reservation Fall 7 lks. N.81°39'W., of the 72½ mile cor., hereinafter described.
39.84	Thence from cor. N.8°21'E., on retracement on W. bdy. of W.M.I. Reservation Fall 5 lks. N.81°39'W., of the 72 mile cor., hereinafter described.
39.56	I return to the 73 mile cor., hereinbefore described. Thence N.8°27'E., on true line on W. bdy. of White Mountain Indian Reservation. Over mountainous land, through heavy undergrowth. Desc. 192 ft. over N. slope.
8.70	The ¼ sec. cor. for sec. 17, hereinafter described.
11.50	Dry wash, 59 lks. wide, course E.; asc. 143 ft. over S. slope.
31.80	Saddle bears E. and W.; desc. 28 ft. over N. slope.
34.80	Draw, course E.; asc. 53 ft. over S. slope.
39.84	The 72½ mile cor. which is a limestone, 12x12x12 ins. above ground, firmly set, marked WMIRWB 72½M, from which A pine, 18 ins. dia., brs N.19½°E., 32 lks. dist., marked WMIR 72½M BT.
	Thence N.8° 25'E., on true line (N½Mile)
	Asc. 140 ft. over S. slope, along fence line.
7.00	Ridge, brs E. and W.; desc. 285 ft. over N. slope.
9.29	The closing cor. for secs. 8 and 17, hereinafter described.
14.30	Draw, course E.; asc. 151 ft. over S. slope.
22.00	Ridge, brs N.70° E. and S.70°W., desc. 45 ft. over N. slope
32.00	Ridge, brs E. and W.; desc. 105 ft. over N. slope.
39.56	The 72 mile cor., which is a granite stone, 24x18x10 ins. above ground, firmly set, marked WMIRWB 72M., with mound of stone, 3 ft. base, 2 ft. high, W. of cor.
	Land, mountainous. Soil, 3rd rate. Timber, none. Undergrowth, oak brush, manzanita and cactus.
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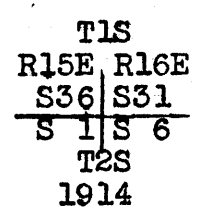
Retracement of a portion of the  
W. bdy. of the White Mountain Indian Reservation

Chains.	
40.22	<p>Thence N.8°21'E., on retracement on W.bdy. of W.M.I.Reservation. Fall 5 lks. N.81°39'W. of the 71½ mile cor., hereinafter described.</p>
38.99	<p>Thence from cor. N.8°21'E., on retracement on W.bdy. of W.M.I.Reservation. Fall 5 lks. N.81°39'W. of the 71 mile cor., hereinafter described.</p>
5.70	<p>I return to the 72 mile cor., hereinbefore described.</p>
10.23	<p>Thence</p>
21.30	<p>N.8°25'E., on true line on W. bdy. of White Mountain Indian Reservation.</p>
32.00	<p>Over mountainous land, through heavy undergrowth.</p>
40.22	<p>Desc. 46 ft. over N. slope.</p>
10.23	<p>Wash, 20 lks. wide, course E.; asc. 163 ft. over S.slope.</p>
21.30	<p>The ¼ sec. cor. for sec. 8, hereinafter described.</p>
32.00	<p>Ridge, brs NE. and W.; desc. 34 ft. across head of drain course NE.</p>
40.22	<p>Ridge, brs NE. and SW.; desc. 99 ft. over NW. slope.</p>
40.22	<p>The 71½ mile cor., which is a limestone, 14x12x10 ins.</p>
	<p>above ground, firmly set, marked WMIRWB 71½M on E. side,</p>
	<p>with mound of stone, 3 ft. base, 1½ ft. high W. of cor.</p>
	<p>Thence</p>
	<p>N.8°25'E., on true line (N½ mile)</p>
10.51	<p>Desc. gradual NW. slope along fence line.</p>
11.70	<p>The closing cor. for secs. 5 and 8, hereinafter described.</p>
15.00	<p>Ravine, course NE.; asc. 57ft. over S. slope.</p>
19.30	<p>Rocky quartzsite spur, slopes E.; desc. 102 ft. over N. slope.</p>
28.50	<p>Wash, 30 lks. wide, course E.; asc. 2.2 ft. over S. slope</p>
38.99	<p>Ridge, brs E. and W.; desc. 214 ft. over N. slope.</p>
38.99	<p>The 71 mile cor., which is a granite stone, 18x14x10 ins.</p>
	<p>above ground, firmly set, marked WMIRWB 71 M on E.side.,</p>
	<p>with mound of stone, 3 ft. base, 2 ft. high, W. of cor.</p>
	<p>Land, mountainous.</p>
	<p>Soil, 3rd and 4th rate.</p>
	<p>Timber, none.</p>
	<p>Undergrowth, oak brush, manzanita, and cacti.</p>
39.56	<p>Thence</p>
39.56	<p>N.8°21'E., on retracement on W. bdy. of W.M.I.Reservation</p>
	<p>Fall 5 lks. N.81°39'W. of the 70½ mile cor., hereinafter described</p>
	<p>Thence from cor.</p>
	<p>N.8°21'E., on retracement on W. bdy. of W.M.I.Reservation</p>
	<p>I return to the 71 mile cor., hereinbefore described.</p>
	<p>Thence</p>
	<p>N.8°25'E., on true line on W. bdy. of White Mountain Indian Reservation.</p>
8.50	<p>Over mountainous land, through heavy brush.</p>
9.50	<p>Desc. gradual N. slope along fence line.</p>
11.92	<p>Road, brs NE. and SW.</p>
19.30	<p>Drain, course NW.; asc. 115 ft. over S. slope.</p>
31.50	<p>The ¼ sec. cor. for sec. 5, hereinafter d escribed.</p>
38.00	<p>Spru slopes W.; desc. 268 ft. over N. slope.</p>
39.56	<p>Wash, 50 lks. wide, course E.; asc. 114 ft. over S. slope.</p>
	<p>Spur, slopes E.; desc. 23 ft. over N. slope.</p>
	<p>The 70½ mile cor., which is a granite stone 18x14x12 ins.</p>
	<p>above ground, firmly set, marked WMIR 70½M WB on E.face,</p>
	<p>with mound of stone, 3 ft. base, 2 ft. high, W. of cor.</p>

Survey of a Portion of the N. bdy. of T2S R16E.

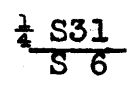
Chains.

The cor. of Tps. 1 and 2 S., Rs. 15 and 16 E., is an iron post, 3 ins. dia., 28 ins. above ground, set in a mound of stone, 3 ft. base, 2 ft. high, with additional mound of stone, 2 ft. base, 1 1/2 ft. high, S. of cor., and brass cap marked



Thence East on true line bet. secs. 6 and 31. Over rolling mountainous land, through dense undergrowth. Desc. 91 ft. over E. slope.

- 5.00 Drain, course SE.; asc. 28 ft. over SW. slope.
- 9.60 Spur, slopes SE.; desc. 552 ft. over E. slope.
- 40.00 Set an iron post, 3 ft. long, 1 in. dia., 27 ins. in the ground, for 1/4 sec. cor., marked on brass cap

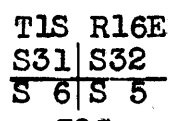


1923

raise mound of stone, 3 ft. base, 2 ft. high, N. of cor. Desc. 122 ft. over E. slope.

- 45.55 Wash, 40 lks. wide, course SE.; asc. 49 ft. over SW. slope
- 48.20 Road, brs N. to Globe and S. to Winkelman

- 48.25 Spur, slopes SE.; desc. 62 ft. over E. slope.
- 55.50 Drain, course SE.; asc. 57 ft. over gradual SW. slope.
- 60.00 Road, brs S. and NW.
- 70.60 Ridge, brs N. and S.; desc. 109 ft. over NE. slope.
- 79.90 Drain, course S.; asc. slightly to cor.
- 80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 5,6,31, and 32, marked on brass cap



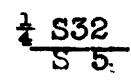
T2S  
1923

raise mound of stone, 3 ft. base, 2 ft. high, W. of cor. Land, rolling mountainous.

Soil, 3rd rate.  
Timber, none.  
Undergrowth, oak and catclaw.

East on true line bet. secs. 5 and 32. Over rolling mountainous land, through dense brush. Asc. 45 ft. over SW. slope.

- 3.20 Low ridge, brs N. and S.; desc. 46 ft. over E. slope.
- 8.20 Head of drain, course SW.; asc. 65 ft. over NW. slope.
- 20.00 Spur, slopes N.; desc. 206 ft. along N. slope.
- 36.00 Draw, course SE.; asc. 25 ft. over W. slope to cor.
- 40.00 Set an iron post, 3 ft. long, 1 in. dia., 16 ins. in the ground, on bed rock, in mound of stone, 3 ft. base 1 1/2 ft. high, marked on brass cap



1923

Deposit stone marked cross (X) at base of post. Asc. 34 ft. over SW. slope.

- 42.20 Spur, slopes S.; desc. 17 ft. over SE. slope

## Survey of a portion of the N. bdy. of T2S R16E.

Chains

45.46 Intersect the W. bdy. of the White Mountain Indian Reservation at a point N.8°21'E. of the 70½ mile cor., hereinbefore described, 12.76 chs. dist. Course of Reservation Bdy. determined by retracement for alinement only. At point of intersection, set an iron post, 3 ft. long, 3 ins. dia., 27 ins. in the ground, for closing cor. of secs. 5 and 32, Ts 1 and 2 S., R16E, marked on brass cap.

T1S  
R16E  
C S32 WMIR  
C S 5  
T2S  
1923

raise mound of stone, 3 ft. base, 2 ft. high, W. of cor.

Land, rolling mountainous.

Soil, 3rd rate.

Timber, none.

Undergrowth, oak and catclaw.

## Survey of a Portion of the S. bdy. of T2S R16E.

The cor. of Tps 2 and 3 S., Rs 15 and 16 E., is an iron post, 3 ins. diam., 12 ins. above ground, firmly set, marked on brass cap

T2S  
R15E R16E  
S36 S31  
S 1 S 6  
T3S  
1914

And witnessed by bearing trees, NE, SE, SW, and NW. of cor.

Thence

East, on a true line bet. secs. 6 and 31.

Asc. 36 ft. over gradual W. slope.

4.50 Spur, slopes N.; desc. 67 ft. over E. slope.

6.50 Ravine, course N.; asc. 183 ft. over W. slope.

17.50 Ridge, brs N. and S.; desc. 187 ft. over E. slope.

25.30 Gulch, course N.; asc. 35½ ft. over W. slope.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 20 ins. in the ground, on bed rock, in mound of stone, marked on brass cap

S  
S 6  
1923

from which

A juniper, 4 ins. dia., brs S.53°E., 36 lks. dist., marked ¼ S6 BT.

A pinyon, 16 ins. dia., brs N.60½°W., 60 lks. dist., marked ¼ S31 BT.

This cor. falls on spur, sloping N.

Desc. 221 ft. over NE. slope.

55.53 Intersect the W. bdy. of the White Mountain Indian Reservation, at a point N.8°16'E., 1.78 chs. from 76½ mile cor., hereinbefore described.

At intersection, set an iron post, 3 ft. long, 3 ins. dia., 24 ins. in the ground, for closing cor. of secs. 6 and 31, Tps. 2 and 3 S., R16E., marked on brass cap

Survey of a portion of the S. bdy. of T2S R16E.

Chains.

T2S  
R16E  
CC S31 WMIR  
S 6  
T3S  
1923

from which  
A juniper, 36 ins. dia., brs S.75 $\frac{1}{4}$ °W., 48 lks. dist.,  
marked T3S R16E S6 CC BT.  
A juniper, 8 ins. dia., brs N.41 $\frac{1}{4}$ °W., 106 lks. dist.,  
marked T2S R16E S31 CC BT.  
Land, rough mountainous.  
Soil, 3rd rate.  
Timber, scattering pine and juniper.  
Undergrowth, oak brush and manzanita.

Boundaries of that part of T2S R16E  
subdivided under this Group

Latitudes, departures and closing errors.

Line Designated	True bearing	Dist- ance	Latitudes		Departures	
			N.	S.	E.	W.
S.bdy.of Tp.	West	55.53				55.53
W.bdy.of Tp.	North	480.00	480.00			
N.bdy.of Tp.	East	125.46			125.46	
W.bdy.W.M.I.R.	S.8°21'W	12.76		12.62		1.85
	S8°25'W	158.33		156.62		23.17
	S8°27'W	39.84		39.41		5.85
	S8°25'W	78.03		77.19		11.42
	S8°21'W	40.14		39.71		5.83
	S8°19'W	39.76		39.34		5.75
	S8°29'W	39.27		38.84		5.79
	S8°12'W	39.60		39.20		5.65
	S8°16'W	37.37		36.98		5.73
Convergency					.09	
Totals			480.00	479.91	125.55	126.57
			479.91			125.55
	Error in lat		0.09			
				Error in dep.		1.02

Survey of a Portion of the Subdivision of T2S R16E

Chains.

From the cor. of secs. 25, 30, 31, and 36, on the W. bdy. of the Tp., which is an iron post, 3 ins. dia., 12 ins. above ground, firmly set, marked on brass cap

T2S  
R15E R16E  
S25 S30  
-----  
S36 S31

1914 with mound of stone  
3 ft. base, 2 ft. high, W. of cor.  
East on true line bet. secs. 30 and 31.  
Over rolling and mountainous land, through dense brush.  
Asc. slightly along S. slope.  
9.00 Spur, slopes S.; desc. 259 ft. over SE. slope.  
34.70 Wash, 30 lks. wide, course N.20°E.; asc. 88 ft. over N. slope.  
38.60 Trail, brs NE. and SW.  
40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap

$\frac{1}{4}$  S30  
-----  
S31  
1923

from which

A Juniper, 16 ins. dia., brs S.18°24'E., 254 lks. dist., marked  $\frac{1}{4}$  S31 BT.

No other tree available.

Raise mound of stone, 3 ft. base, 1 $\frac{1}{2}$  ft. high, N. of cor.  
Asc. 55 ft. over W. slope.

46.00 Ridge, brs N. and S.; asc. 28 ft. across head of drain, course NE.

62.00 Spur, slopes N.; desc. 145 ft. over E. slope.

67.03 Intersect the W. bdy. of the White Mountain Indian Reservation, at a point N.8°29'E., 3.73 chs. from the 75 $\frac{1}{2}$  mile cor., hereinbefore described. At intersection, set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for closing cor. of secs. 30 and 31, marked on brass cap.

T2S  
R16E  
S30 WMIR  
CC -----  
S31  
1923

No bearing trees available.

Raise mound of stone, 3 ft. base, 2 ft. high, W. of cor.  
Land, rough mountains.

Soil, 3rd rate.

Timber, scattering juniper and pine.

Undergrowth, manzanita, oak brush and catclaw.

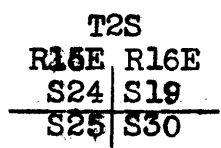
East boundary of sec. 31

At mid-point bet. the closing cor. of secs. 30 and 31 and the closing Tp. cor. of Tps. 2 and 3 S., R16E, and at 2.98 chs. N.8°12'E. of the 76 mile cor. hereinbefore described, set a granite stone 20x14x6 ins. 13 ins., in the ground, marked  $\frac{1}{4}$  S31 on W. side, and raise mound of stone, 3 ft. base, 2 ft. high, W. of cor. (No iron post was available)

Survey of a Portion of the Subdivision of T2S R16E

Chains.

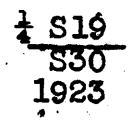
From the cor. of secs. 19, 24, 25, and 30, on the W. bdy. of the Tp., which is an iron post, 3 ins. dia., 12 ins. above ground, marked on brass cap



1914 with mound of stone  
3 ft. base, 1 1/2 ft. high, W. of cor.  
From this cor., one house brs N.25°E., about 16.00 chs. dist., and one house brs N.28°E., about 40.00 chs. dist.

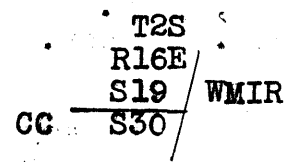
Thence

East on true line bet. secs. 19 and 30.  
Over rolling and mountainous land, through scattering timber and dense undergrowth.  
Desc. 70 ft. along N. slope.  
8.10 Spur, slopes N.; desc. 124 ft. along N. slope.  
26.30 Drain, course N.; asc. 136 ft. over NW. slope.  
38.30 Spur, slopes N.; desc. 29 ft. over NE. slope.  
40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for 1/4 sec. cor., marked on brass cap



from which  
A mountain cherry, 5 ins. dia., brs N.57 1/4°E., 12 lks. dist., marked 1/4 S19 BT.  
A mountain cherry, 6 ins. dia., brs S.4 1/4°E., 40 lks. dist., marked 1/4 S30 BT.

Desc. 229 ft. over NE. slope.  
56.00 Wash, 30 lks. wide, course SE.; asc. 229 ft. over SW. Slope  
73.60 Spur, slopes S.; desc. 58 ft. over E. slope.  
78.30 Drain, course S.; asc. gradually to sec. cor.  
78.82 Intersect the W. bdy. of the White Mountain Indian Reservation at a point N.8°21'E., 5.57 chs. dist., from the 74 1/2 mile cor., hereinbefore described. At intersection set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for closing cor. of secs. 19 and 30, marked on brass cap



1923

from which  
A walnut, 6 ins. dia., brs S.85°W., 50 lks. dist., marked T2S R16E S30 CC BT.  
An oak, 3 ins. dia., brs N.65°W., 49 lks. dist., marked T2S R16E S19 CC BT.  
Land, rolling mountains.  
Soil, 4th rate.  
Timber, walnut, mountain cherry.  
Undergrowth, scrub oak and catclaw.

E. bdy. of sec. 30  
At mid-point bet. the closing cor. of secs. 30 and 31 and the closing cor. of secs. 19 and 30, on the W. bdy. of the White Mountain Indian Reservation, and at a point N.8°19'E., 4.89 chs. of the 75 mile cor., hereinbefore described, set a limestone, 20x14x14 ins., set 6 ins. in the ground, in mound of stone, marked 1/4 S30 on W. face,

Survey of a Portion of the Subdivision of T2S R16E

Chains.

for 1/4 sec. cor. for sec. 30 only.

Raise mound of stone, 3 ft. base, 2 ft. high, W. of cor.

At true point for cor. of secs. 13, 18, 19, and 24, which is witnessed by an iron post, 3 ft. long, 2 ins. dia., 12 ins. above ground, firmly set, marked on brass cap

T2S	
R15E	R16E
S13	S18
S24	S19

1914 With mound of stone, 3 ft. base, 2 ft. high, W. of cor. This witness cor. is 33 lks. N. of the true point for cor. From true point for cor.

East on sectional correction line bet. secs. 18 and 19. Over rolling mountains, through very scattered timber and dense brush.

Desc. 183 ft. across head of draw; course NE.

- 9.60 Ridge, brs NE. and SW.; desc. 200 ft. over SE. slope
- 16.50 Slope changes to S.
- 30.00 Small drain, course S.; asc. gradual SW. slope.
- 33.70 Spur, slopes S.; desc. 83 ft. over E. slope.
- 38.00 Drain, course S.; asc. gradually to 1/4 sec. cor.
- 40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for 1/4 sec. cor., marked on brass cap

1/4 S18
S19
1923

No bearing trees available. raise mound of stone, 3 ft. base; 2 ft. high, N. of cor. Asc. 62 ft. over SW. slope:

- 43.60 Spur, slopes SE.; desc. 70 ft. over SE. slope.
- 45.50 Drain, course SE.; asc. 134 ft. over SW. slope.
- 59.80 Ridge, brs N. and S.; desc. 151 ft. over E. slope.
- 68.20 Drain, course NE.; asc. 23 ft. over NW. slope.
- 74.60 Spur, slopes N.; desc. 146 ft. over NE. slope.
- 80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 17, 18, 19, and 20, marked on brass cap

T2S R16E	
S18	S17
S19	S20

1923

from which

A cedar, 4 ins. dia.; brs S:41°W.; 34 lks. dist., marked T2S R16E S19 BT.

No other trees available.

Raise mound of stone, 3 ft. base; 2 ft. high, W. of cor. Land, rolling mountains.

Soil, 3rd rate.

Timber, very scattered cedar.

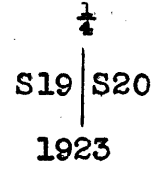
Undergrowth, manzanita, oak brush and cactus.

Thence South on true line bet. secs. 19 and 20. Over rolling mountainous land, through scattering timber and dense brush. Asc. 42 ft. over N. slope.

Survey of a Portion of the Subdivision of T2S R16E.

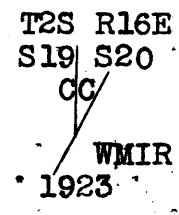
Chains .

- 2.20 Spur, slopes E.; desc. 102 ft. over S. slope.
- 9.50 Ravine, course E.; asc. 114 ft. over N. slope.
- 14.90 Ridge, brs E. and SW.; desc. 21 ft. over S. slope.
- 21.60 Drain, course N.70°E., asc. 159 ft. over NW. slope.
- 40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap



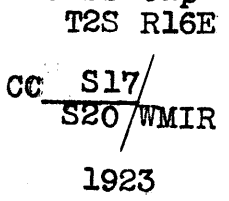
from which  
 A walnut, 4 ins. dia., brs S.31°¼ E., 23 lks. dist., marked ¼ S20 BT.  
 A mountain cherry, 4 ins. dia., brs N.48°W., 16 lks. dist., marked ¼ S19 BT.

- Asc. 99 ft. over N. slope.
- 44.70 Spur, slopes E.; desc. gradual S. slope 100 ft.
- 47.70 Wire fence, brs E. and W.
- 54.00 Wire fence brs NE. and SW.
- 60.70 Wire fence, brs E. and W.
- 61.80 Wire fence, brs E. and W.
- 63.50 Stream, 2 lks. wide, course E. (1 inch deep)  
House brs West 8.00 chs. dist.
- 72.00 Intersect the W. bdy. of the White Mountain Indian Reservation at a point N.8°21'E., 8.07 chs. dist from the the closing cor. of secs. 19 and 30, hereinbefore described. At point of intersection, set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for closing cor. of secs. 19 and 20, marked on brass cap



from which  
 A walnut, 5 ins. dia., brs N.37½°W., 1.56 chs. dist., marked T2S R16E S19 CC BT.  
 No other tree available.  
 Raise mound of stone, 3 ft. base, 2 ft. high, N. of cor.  
 Land, rolling mountains  
 Soil, rocky and gravelly, 3rd rate.  
 Timber, scattering walnut and mountain cherry.  
 Undergrowth, manzanita, oak brush and cactus.

- From the cor. of secs. 17, 18, 19, and 20  
 East on sectional correction line bet. secs. 17 and 20  
 Over rolling and mountainous land, through scattering timber, and dense undergrowth.  
 Desc. 144 ft. over NE. slope.
- 9.50 Ravine, course N.; asc. gradual W. slope 30 ft. to cor.
- 10.50 Intersect the West bdy. of the White Mountain Indian Reservation; at a point N.8°25'E., 7.69 chs. dist., from the 73½ mile cor., hereinbefore described.  
 At intersection, set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for closing cor. of secs 17 and 20, marked on brass cap





Survey of a Portion of the Subdivision of T2S R16E.

Chains.

from which  
 A hackberry, 16 ins. dia., brs S.29½°W., 169 lks. dist.,  
 marked T2S R16E S20 CC BT.  
 A pine, 5 ins. dia., brs N.66¾°W., 126 lks. dist.,  
 marked T2S R16E S17 CC BT.  
 Land, rolling and mountainous.  
 Soil, 3rd rate.  
 Timber, scattering pine and hackberry.  
 Undergrowth, manzanita and oak brush.

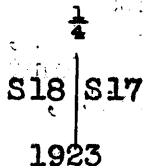
E. bdy. of sec. 20

At mid point bet. the closing cor. of secs. 17 and 20  
 and the closing cor. bet. secs. 19 and 30, hereinbefore  
 described, and at a point N.8°25'E., 5.87 chs. from  
 the 74 mile cor., set a limestone, 18x14x6 ins.  
 14 ins. in the ground, marked ¼ S20 on W. face, for  
 ¼ sec. cor. for sec. 20.

Raise mound of stone, 2 ft. base, 2 ft high, W. of cor.

From the cor. of secs. 17, 18, 19, and 20  
 N.0°01'E., bet. secs. 17 and 18.  
 Over rolling and mountainous land, through scattering  
 timber, and dense undergrowth.

- 8.10 Desc. 119 ft. over NE. slope.
- 12.20 Ravine, course E.; asc. 29 ft. over S. slope.
- 16.40 Spur, slopes E.; desc. 68 ft. over N. slope.
- 28.40 Draw, course E.; asc. 75 ft. over S. slope.
- 40.00 Ridge, brs E. and W.; desc. 307 ft. over N. slope.
- Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in  
 the ground, for ¼ sec. cor., marked on brass cap

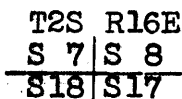


from which

An oak, 4 ins. dia., brs N.44½°E., 51 lks. dist.,  
 marked ¼ S17 BT.

No other tree available.

- 40.20 Raise mound of stone, 3 ft. base, 2 ft. high, W. fo cor.
- Wash, 20 lks. wide, course N.70°E.; asc. 113 ft. over  
 general S. slope.
- 50.40 Spur, slopes E.; desc. 127 ft. over NE. slope.
- 57.00 Wash, 30 lks. wide, course SE.; asc. 223 ft. over S. slope
- 71.70 Spur, slopes SE.; desc. 40 ft. over N. slope.
- 76.80 Drain, course E.; asc. slightly over S. slope.
- 80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in  
 the ground, for cor. of secs. 7, 8, 17, and 18, marked  
 on brass cap



1923

Survey of a Portion of the Subdivision of T2S R16E.

Chains

No. bearing trees available.  
 Raise mound of stone, 2 ft. base, 1½ ft. high, W. of cor.  
 Land, rolling mountains.  
 Soil, 4th rate.  
 Timber, scattering oak and cedar.  
 Undergrowth, oak brush, manzanita, dagger and catclaw.

---

East on true line bet. secs. 8 and 17.  
 Over rolling mountains, through scattered timber and dense undergrowth.  
 Asc. 29 ft. over SW. slope.  
 5.50 Spur, slopes S.; desc. 103 ft. over E. slope.  
 13.00 Draw, course NE.; asc. 82 ft. over NW. slope.  
 21.60 Spur, slopes N.; desc. 16 ft. over NE. slope.  
 22.37 Intersect the W. bdy. of the White Mountain Indian Reservation at a point N.8°25'E., 92.29 chs. dist. from the 72½ mile cor., hereinbefore described. At intersection set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for closing cor. for secs. 8 and 17, marked on brass cap

T2S R16E  
 CC S8  
 S17 WMIR  
 1923

from which  
 A mountain cherry, 6 ins. dia., brs S.40°W., 19 lks. dist., marked T2S R16E S17 CC BT  
 A pinyon, 4 ins. dia., brs N.63°W., 50 lks. dist., marked T2S R16E S8 CC BT.  
 Land, rolling and mountainous.  
 Soil, 4th rate.  
 Timber, scattering cedar, pinyon, and mountain cherry.  
 Undergrowth, oak brush and manzanita.

---

E. bdy. of sec. 17

At mid-point bet. the closing cor. of secs. 8 and 17 and the closing cor. of secs. 17 and 20, hereinbefore described, and N.8°27'E., 8.70 chs. dist from the 73 mile cor. on the W. bdy. of the White Mountain Indian Reservation, hereinbefore described, set a limestone 18x14x6 ins., 14 ins. in the ground, marked ¼ S17 on W. face, for ¼ sec. cor.  
 Raise mound of stone, 3 ft. base, 2 ft. high, W. of cor. (No iron post was available)

---

West on random line bet. secs. 7 and 18.  
 40.00 Set temp ¼ sec. cor.  
 80.00 Intersect the W. bdy. of the Tp., 3 lks. S. of the cor. of secs. 7, 12, 13, and 18, which is an iron post, 3 ins. dia., 12 ins. above ground, marked on brass cap

T2S R  
 R15E R16E  
 S12 S 7  
 S13 S18  
 1914

## Survey of a Portion of the Subdivision of T2S R16E

Chains.

with mound of stone, 3 ft. base, 1½ ft. high W. of cor.

Thence

S.89°59'E., on true line bet. secs. 7 and 18.

Over rolling and mountainous land, through dense undergrowth.

Asc. along N. slope 109 ft.

10.40 Spur, slopes N.; desc. 447 ft. over NE. slope.

10.46 A Juniper tree on line, 8 ins. dia., marked with two hacks on E. and W. faces.

32.00 Desc. along a gradual rolling N. slope.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap

¼	S 7
	—
	S 18

No bearing trees at hand. 1923

Raise mound of stone, 3 ft. base, 2 ft. high, N. of cor.

Desc. NE slope 62 ft.

47.40 Wash, 30 lks. wide, course SE.; asc. 111 ft. over W. slope.

53.70 Spur, slopes SE.; desc. 67 ft. over NE. slope.

63.00 Drain, course SE.; asc. 13 ft. over W. slope.

65.90 Spur, slopes S.; desc. 16 ft. over E. slope

69.00 Drain, course S.; asc. gradually over W. slope

75.00 Low ridge, brs N. and S.; desc. slightly to cor.

80.00 The cor. of secs. 7, 8, 17, and 18.

Land, rolling and mountainous.

Soil, 4th rate.

Timber, scattering cedars

Undergrowth, oak brush and manzanita.

N.0°01'E., bet. secs. 7 and 8.

Over rolling land, through dense brush.

Asc. 33 ft. over rolling S. slope.

5.00 Low ridge, brs NE. and SW.; desc. 33 ft. over NW. slope.

9.10 Draw, course NE.; asc. 48 ft. over S. slope.

22.40 Spur, slopes W.; desc. 63 ft. over N. slope.

30.00 Draw, course E.; asc. 77 ft. over S. slope.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap

¼
S 7   S 8

1924

Raise mound of stone, 3 ft. base, 2 ft. high, W. of cor.  
Asc. 67 ft. over S. slope.

52.00 Ridge, brs NE. and SW.; asc. 43 ft. across head of ravine, course NW.

64.10 Spur, slopes W.; desc. 215 ft. over N. slope.

77.30 Wash, 30 lks. wide, course E.; asc. 28 ft. over S. slope.

79.80 A perpendicular quartzite outcropping, 15 ft. high, brs West 20 lks. dist.

80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 5, 6, 7, and 8, marked on brass cap

T2S R16E	
S 6	S 5
—	—
S 7	S 8

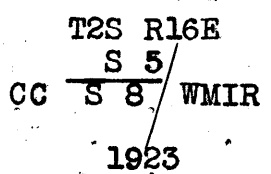
1923

Survey of a portion of the Subdivision of T2S R16E

Chains.

Raise mound of stone, 3 ft. base, 1½ ft. high, W. of cor.  
Land, rolling  
Soil, 3rd rate.  
Timber, none.  
Undergrowth, manzanita and oak brush.

East on true line bet. secs. 5 and 8.  
Over rough mountainous land, through scattering timber  
and dense undergrowth.  
Desc. 74 ft. over E. slope.  
3.20 Wash, 30 lks. wide, course NE.; asc. 129 ft. over NE.  
slope.  
11.00 Spur, slopes N.; desc. 270 ft. over NE. slope.  
33.70 Ravine, course NE; asc. slightly  
34.07 Intersect the W. bdy. of the White Mountain Indian Reser-  
vation at a point N.8°25'E, 10.51 chs. dist., from the  
71½ mile cor., hereinbefore described. At intersection  
set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in  
the ground, for closing cor. for secs. 5 and 8, marked  
on brass cap



from which  
A pinyon, 12 ins. dia., brs S.77¼°W., 60 lks. dist.,  
marked T2S R16E S8 CC BT.  
A pinyon, 6 ins. dia., brs N.11¼°W., 53 lks. dist,  
marked T2S R16E S5 CC BT.

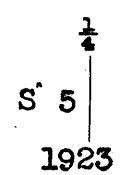
Land, rough and mountainous.  
Soil, 3rd rate.  
Timber, scattered pinyon.  
Undergrowth, oak brush, manzanita, and catclaw.

E. bdy. sec. 8.

At mid-point bet. the closing cor. of secs. 5 and 8 and  
the closing cor. of secs. 8 and 17, and at a point  
N.8°25'E., 10.23 chs. dist. from the 72 mile cor., here-  
inbefore described, set a limestone, 18x10x8 ins.,  
14 ins. in the ground, marked ¼ S8 on W. face, and  
raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor  
(This cor. is for sec. 8 only)  
(No iron post was available)

E. bdy. of sec. 5.

At a point 40.00 chs. in latitude from the closing cor.  
of secs. 5 and 8, and at a point N.8°25'E, 11.92 chs.  
from the 71 mile cor, hereinbefore described, on the  
West bdy. of the White Mountain Indian Reservation,  
set an iron post, 3 ft. long, 1 in. dia., 26 ins. in  
the ground, for ¼ sec. cor. for sec. 5 only, marked  
on brass cap.



## Survey of a portion of the subdivision of T2S R16E

Chains.

Raise mound of stone, 3 ft. base, 2 ft. high, W. of cor.  
No bearing trees available.

40.00 N.89°59'W. on random line bet. secs. 6 and 7.  
Set temp.  $\frac{1}{4}$  sec. cor.  
80.08 Intersect the W. bdy. of the Tp., 14 lks. N. of the cor.  
of secs. 1,6,7, and 12, which is an iron post, 3 ins.  
dia., 12 ins. above ground, firmly set, marked on  
brass cap

T2S	
R15E R16E	
S 1	S-6
S12	S 7

1914

2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor. with mound of stone

Thence

N.89°55'E., on true line bet. secs. 6 and 7.  
Over rolling and mountainous land, through scattering  
timber, and dense undergrowth.  
Asc. 13 ft. over W. slope.  
7.08 Spur, slopes S.; desc. 173 ft. over E. slope.  
16.28 Road, brs NW and S.85°E (To Globe)  
17.28 Wash, 40 lks. wide, course NE.; thence over almost level  
land on slight desc. to  $\frac{1}{4}$  sec. cor.  
23.58 Same road, brs S85°W and NE.

38.68 Old road, brs NE. and SW.  
40.04 Set an iron post, 3 ft. long, 1 in. dia., 27 ins. in  
the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap

$\frac{1}{4}$ S 6
S 7
1923

from which

An oak, 4 ins. dia., brs S.12°30'E., 27 lks. dist.,  
marked  $\frac{1}{4}$  S7 BT.  
A pinyon, 4 ins. dia., brs N.84°30'W., 103 lks. dist.,  
marked  $\frac{1}{4}$  S6 BT.  
Asc. 18 ft. over W. slope.  
45.68 Spur, slopes S.; desc. 70 ft. over E. slope.  
55.68 Drain, course S.; asc. 38 ft. over W. slope.  
62.48 Spur, slopes S.; desc. 74 ft. over SE. slope to cor.  
80.08 The cor. of secs. 5,6,7, and 8.

Land, rolling and mountainous.

Soil, 4th rate.

Timber, scattering cedar and pinyon.

Undergrowth, oak brush, cat claw, and manzanita.

40.00 N.0°01'E., on random line bet. secs. 5 and 6.  
Set temp.  $\frac{1}{4}$  sec. cor.  
80.06 Intersect the N. bdy. of the Tp., 12 lks. W. of the cor.  
of secs. 5,6,31, and 32, hereinbefore described  
Thence

S.0°06'W., on true line bet. secs. 5 and 6.  
Over rolling and mountainous land, through dense under  
growth  
Desc. slightly over SW. slope.

Survey of a portion of the subdivision of T2S R16E

Chains

- 3.86 Draw, course SE; desc. 81 ft. over SE. slope.
- 16.16 Wash, 5 lks. wide, course E.; asc. 74 ft. over NE. slope.
- 21.50 Low spur, slopes E.; desc. 50 ft. over SE. slope.
- 25.06 Wash, 10 lks. wide, course NE.; asc. 50 ft. over N. slope.
- 32.60 Spur, slopes E.; desc. 93 ft. over S. slope.
- 38.46 Draw, course E.; asc. 90 ft. over N. slope.
- 40.06 Set an iron post, 3 ft. long, 1 in. dia., 27 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap

$\frac{1}{4}$

S 6 | S 5

(No bearing trees available)

1923

Raise mound of stone, 3 ft. base, 2 ft. high, W. of cor. Asc. 54 ft. over NW. slope.

- 42.20 Old prospect hole brs West, 20 lks. dist.
- 43.26 Spur, slopes E.; desc. 138 ft. over S. slope.
- 56.26 Draw, course E.; asc. 174 ft. over N. slope.
- 70.06 Spur, slopes W.; desc. 57 ft. over SW. slope.
- 80.06 The cor. of secs. 5,6,7, and 8.

Land, rolling

Soil, 3rd rate.

Timber, none.

Undergrowth, manzanita, catclaw, and cactus.

GENERAL DESCRIPTION

This fractional township lying along the western boundary of the White Mountain Indian Reservation, is generally mountainous.

The timber consists of scattering pinyon, cedar, pine, hackberry, walnut, mountain cherry and juniper. Undergrowth: oak brush, manzanita, catclaw and some cactus.

A very small stream of water was found on the line between sections 19 and 20, and a few houses in sections 19 and 30. A mineral prospect was observed in Sec. 6.



CERTIFICATE OF UNITED STATES TRANSITMAN.

I, Roger F. Wilson, U. S. Transitman, hereby certify upon honor that, in pursuance of special instructions received from the U. S. Surveyor General, for Group 124, Arizona, bearing date of the 15th day of October, 1923, 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, <sup>retraced</sup> all those parts or portions of the West boundary of the White Mountain Indian Reservation; and surveyed all those parts or portions of the North and South boundaries and Subdivision lines of TOWNSHIP 2 SOUTH, RANGE 16 EAST, of the Gila and Salt River Base and Meridian, in the State of Arizona, which are represented in the foregoing field notes <sup>and by diagram on page 1 hereof</sup> as having been executed by me, and under my direction; and that all the corners of said retracement and survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyor General, for Group 124, Arizona, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such retracement and survey.

Place: White Mountain Indian Reservation, Arizona  
 Date: October 15, 1923  
 \_\_\_\_\_  
 U. S. Transitman.

~~APPROVAL~~

~~OFFICE OF THE UNITED STATES SURVEYOR GENERAL,~~

~~191~~

~~The foregoing field notes of the survey of~~

~~executed by~~  
~~under his special instructions dated~~ 191 ~~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. Surveyor General.~~

~~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. Surveyor General.~~



4-680

**FIELD ASSISTANTS.**  
to  
**William B. Kimmel, U. S. Cadastral Engineer.**

NAMES.	CAPACITY.
Frank T. Burgess	1st chainman
Carl Anderson	2nd chainman
Allen H. Moore	moundsman
Homer Beard	axman.

CERTIFICATE OF UNITED STATES CADASTRAL ENGINEER.

William B. Kimmel, U.S. Cadastral Engineer, hereby certify upon honor that, in pursuance of special instructions received from the U. S. Surveyor General, for Group 124, Arizona, bearing date of the 15th day of October, 1923, 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, retraced all those parts or portions of the

West boundary of the White Mountain Indian Reservation;

and surveyed all those parts or portions of the

Subdivision lines of

TOWNSHIP 2 SOUTH, RANGE 16 EAST,

of the Gila and Salt

River Base and Meridian, in the State of Arizona,

and by diagram on page 1 hereof

the foregoing field notes as having been executed by me, and under my direction; and that all the corners of said retracement

and survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyor General, for Group 124, Arizona,

and in the specific manner described in the field notes, and that the foregoing are the original field notes of such Retracement and survey.

Place: Continental, Ariz.

William B. Kimmel

U. S. Cadastral Engineer.

Date: March 10, 1926.

APPROVAL.

OFFICE OF U.S. SUPERVISOR OF SURVEYS,

Denver, Colorado, March 17, 1926.

The foregoing field notes of the retracement of

Part of the West bdy. of the White Mountain Indian Reservation (70 1/2 M to 76 1/2 M. mon.);

and of the survey of

Part of the North boundary, part of the South boundary and part of the Subdivision lines of

TOWNSHIP 2 SOUTH, RANGE 16 EAST,

of the Gila and Salt River Base and Meridian, in the State of Arizona,

executed by William B. Kimmel, U.S. Cadastral Engineer, and Roger F. Wilson, U.S. Transitman,

under his special instructions dated October 15, 1923, for Group 124, Arizona, having been critically examined, and the necessary corrections and explanations made, the said field notes, retracements and surveys they describe, are hereby approved.

[Signature]

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.