

*Accepted for...*

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Book D

# FIELD NOTES

BOOK 4026

OF THE SURVEY OF

a portion of the South Boundary, resurvey of a portion of the  
West Boundary and resurvey and survey of a portion of the  
Subdivisional Lines of

Township 4 South, Range 28 East,

Of the Gila and Salt River Meridian,

In the State of Arizona

### EXECUTED BY

Charles E. Hunter, U.S. Transitman,

In the capacity of U. S. Surveyor..., under Special Instructions dated July 17, 1933, issued by the District Cadastral Engineer to govern surveys included in Group No. 182, which were approved by the Commissioner of the General Land Office, Aug. 1, 1933, and Assignment Instructions dated Sept. 30, 1933.

Survey commenced January 2, 1934

Survey completed February 5, 1934

4026

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BOOK 4026

# INDEX DIAGRAM.

Township 4 South, Range 28 East

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The surveys and resurveys in T. 4 S., R. 28 E., Gila and Salt River Base and meridian, Arizona, were executed with a Gurley solar transit, serial No. 20120, constructed in accordance with the standard specifications of the General Land Office. The horizontal circle has a diameter of  $5\frac{1}{2}$  inches, with two double opposite verniers reading to 30 seconds of arc. The vertical circle has a diameter of  $4\frac{1}{2}$  inches, with one double vernier reading to single minutes. The telescope has fixed stadia wires with a ratio of 1:132, and with a focal constant of 1.2 links.

The instrument is equipped with the improved Smith solar attachment, the radius of the latitude arc being  $2\frac{1}{2}$  inches and of the declination arc 3.1 inches, each with verniers reading to single minutes. The instrument was in good condition, having been placed in satisfactory adjustment prior to beginning the survey, and tested and found free from appreciable error, was approved by the District Cadastral Engineer, for Arizona, September 30, 1933. I examined all of the instrumental adjustments before making the field tests hereinafter described.

The direction of the lines were determined by solar transit method. The measurements were made with a Lallie steel tape, 5 chs. in length, graduated every link for the first 100 links, and the balance at intervals of 10 links. The tape was tested by comparison with a Lufkin standard steel tape, and found correct. The measurements were made on the slope, the vertical angle for each interval ascertained by a clinometer in good adjustment, and the horizontal equivalents entered in the field note record.

The data furnished with the special instructions gives the geographic position of the SE. cor. of the township as follows: latitude  $33^{\circ}01'46''N.$ , and longitude  $109^{\circ}24'32''W.$

January 2, 1934: In camp near the center of the NE.  $\frac{1}{4}$  of sec. 26, T. 4 S., R. 28 E., Gila and Salt River Base and Meridian, Arizona, at 5h 52m 08s p.m., by my watch which reads correct 105th meridian standard time, having been compared with a Western Union telegraph clock at Safford, Arizona on this date, I make an hour angle observation on Polaris east of the meridian, for azimuth and latitude, two each, with the telescope in the direct and reverse positions, reading the deflection angles from a reference mark, which is a point on a hill about 30 chs. N. and in the direction NE. to Polaris.

Mean watch time of observation	-----5h 52m 08s
Mean horizontal angle to mark	-----0° 31' 00"
Azimuth of Polaris	-----0° 24' 36"
True bearing of reference mark	-----N. 0° 06' 24"
Watch fast of l.m.t.	-----17m 38s
Mean vertical angle to Polaris	-----34° 03' 18"
Reduced latitude	-----33° 03' 06"

January 3: At 9h 00m a.m., app.t., I set off  $33^{\circ}03'N.$ , on the latitude arc;  $22^{\circ}49'S.$ , on the declination arc, and determine a meridian with the solar which agrees within 1' of the true meridian.

At apparent noon, with the latitude arc unchanged, I observe the sun on the meridian, the resulting reading of the declination arc is  $22^{\circ}49'S.$ , which agrees with the computed declination of the sun.

At 3h 00m p.m., app.t., with the latitude arc unchanged, I set off  $22^{\circ}48'S.$ , on the declination arc, and determine a meridian with the solar, which also agrees within 1' of the true meridian, obtained by observation on Polaris.

As all of the solar observations made 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.

RESURVEY OF A PORTION OF THE BOUNDARY OF THE WHITE MOUNTAIN INDIAN RESERVATION, THROUGH T. 4 S., Rs. 27 and 28 E.

Chains	From the original corner monument No. 15, on random lines, using record courses and distances as follows, setting temp. angle points at end of each course: 1- S. 63°15'E., 7.30 chs. 2- S. 60°15'E., 3.70 " 3- S. 50°45'E., 5.60 " 4- S. 52°00'E., 1.05 chs. to a point from which the 73rd mile monument brs. N. 55°52'W., 47 lks. dist. I return to the initial cor. which is a mark (+), followed by letters AP, chiseled on top surface of a rock ledge, 3 x 2 x 2 ft. above ground. Thence on true line, determined by the broken boundary method. S. 63°27'E. Over open SE. slope.
7.11	To a point. Thence S. 60°22'E.
1.30	Intersect the closing cor. of secs 25 and 30, T. 4 S., Rs. 27 and 28 E., which is an iron post, 3 ins. diam., 24 ins. above ground, in a mound of stone, mkd. and witnessed as described in the official record.
3.60	To a point. Thence S. 50°37'E.
5.45	To a point. Thence S. 51°55'E.
1.02	The 73rd mile monument of the White Mountain Indian Reservation, which is an iron post, 3 ins. diam., 24 ins. above ground, mkd. and witnessed as described in the official record.

RESURVEY OF A PORTION OF THE WEST BOUNDARY OF T. 4 S., R. 28 E.

14.26	From the cor. of secs. 25, 30, 31 and 36, T. 4 S., Rs. 27 and 28 E. North, on a random line, bet. secs. 25 and 30. Fall 20 lks. E. of the closing cor. of secs. 25 and 30, thereinbefore described. Thence, from cor. S. 0°48'E., on true line bet. secs. 25 and 30. Over S. slope, through scattering brush, desc. 432 ft.
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## RESURVEY OF A PORTION OF THE WEST BOUNDARY OF

T. 4 S., R. 28 E.

BOOK 4026

Chains  
12.10

Top of cliff, brs. E. and W.; desc. abruptly 255 ft.

14.26

The cor. of secs. 25, 30, 31 and 36, which is an iron post, 2 ins. diam., 18 ins. above ground, in a mound of stone, 3 ft. base, 1½ ft. high, with brass cap marked

T4S	
R27E	R28E
S25	S30
S36	S31
-1916	

Land, rough mountainous.  
Soil, rocky; 4th rate.  
Timber, a few scattering pinyon.  
Undergrowth, oak.

## A PORTION OF SOUTH BOUNDARY OF

T. 4 S., R. 28 E.

From the cor. of secs. 3, 4, 33 and 34, Tps. 4 and 5 S., R. 28 E.

West, on a random line, bet. secs. 4 and 33, 5 and 32 and 6 and 31, setting temp. ¼ sec. and sec. cors. at intervals of 40 and 80 chs., and at

234.60

Intersect line bet. Rs. 27 and 28 E., 7 lks. S. of the true point for cor. of Tps. 4 and 5 S., Rs. 27 and 28 E., determined from measurements from bearing trees. Since this point comes in a small rocky gulch, draining SW., the cor. monument has evidently been washed away.

At a point 54 lks. W. of true point for cor.,

Set a granite stone, 24 x 24 x 12 ins., 6 ins. in the ground to bedrock, in a mound of stone, for witness cor. of Tps. 4 and 5 S., Rs. 27 and 28 E., marked with 6 grooves on N., S., E. and W. faces, and with a WC on top.

from which

Orig. bearing trees

A cedar limb, 8 ins. diam., brs. N. 70° 15' E., 267 lks. dist., mkd. WC T4S R28E S30 BT.

A cedar tree, 10 ins. diam., brs. S. 79° 15' E., 240 lks. dist., mkd. WC T4S R28E S31 BT.

Raise a mound of stone, 6 ft. base, 3 ft. high, S. of cor.

Thence, from true point for cor.

S. 89° 59' E., on true line, bet. secs. 6 and 31

Over rocky SW. slope, through scattering timber, and undergrowth, asc. 897 ft.

14.35

Top of cliff, brs. N. and S.

19.60

Top of divide, bet. Bonita and Eagle Creeks, brs. NW. and SE., desc. 50 ft.

34.60

Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground to bedrock, with a stone mkd. +, deposited at base, in a mound of stone, 3 ft. base, 2 ft. high, for ¼ sec. cor. of secs. 6 and 31, with brass cap marked

Chains	
	$\frac{1}{4} \frac{S31}{S6}$ 1934 Descend 124 ft. over SE. slope.
44.20	Spur, slopes SE.; thence over NE. slope, desc. 530 ft.
62.70	Trail, brs. NW. and SE.
63.40	Bottom of gulch, 20 lks. wide, course SE.; asc. 260 ft. over SW. slope.
74.60	Set an iron post, 3 ft. long, 2 ins. diam., 12 ins. in the ground to bedrock, in a mound of stone, 4 ft. base, 2 ft. high, for cor. of secs. 5, 6, 31 and 32, with brass cap marked
	$\begin{array}{c} T4S R28E \\ S31   S32 \\ \hline S6   S5 \\ T5S \\ 1934 \end{array}$ from which A juniper tree, 12 ins. diam., brs. S.67°45'E., 247 lks. dist., mkd. T5S R28E S5 BT. A juniper tree, 16 ins. diam., brs. N.69°30'E., 216 lks. dist., mkd. T4S R28E S32 BT. Land, rough mountainous. Soil, rocky and gravelly; 3rd and 4th rate. Timber, scattering juniper, pinyon and oak. Undergrowth, locust, oak, mountain mahogany and cactus.
	Thence
	S. 89°59'E., on true line, bet. secs. 5 and 32.
	Over SW. slope, through scattering timber and brush, asc. 299 ft.
20.70	South slope of round top mountain; desc. 666 ft. over SE. slope.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground to bedrock, in a mound of stone, 4 ft. base, 2 ft. high, for $\frac{1}{4}$ sec. cor. of secs. 5 and 32, with brass cap marked
	$\frac{1}{4} \frac{S32}{S5}$ 1934 from which An oak tree, 8 ins. diam., brs. N.6°30'E., 76 lks. dist., mkd. $\frac{1}{4}$ S32 BT. An oak tree, 5 ins. diam., brs. S.41°15'W., 259 lks. dist., mkd. $\frac{1}{4}$ S5 BT. Descend 363 ft. over E. slope.
53.90	Rocky gulch, 50 lks. wide, course NE.; asc. 467 ft. over NW. slope.

## A PORTION OF SOUTH BOUNDARY OF

BOOK 4026

T. 4 S., R. 28 E.

Chains

73.50

Top of ascent; thence along N. slope.

80.00

Set an iron post, 3 ft. long, 2 ins. diam., 6 ins. in the ground to bedrock, in a mound of stone, 4 ft. base, 2½ ft. high, for cor. of secs. 4, 5, 32 and 33, with brass cap marked

T4S	R28E
S32	S33
S5	S4
1934	

from which

A juniper tree, 6 ins. diam., brs. S.57°00'W., 66 lks. dist., mkd. T5S R28E S5 BT.

Land, mountainous.

Soil, gravelly; 3rd rate.

Timber, pinyon, juniper and oak.

Undergrowth, oak and cactus.

Thence

S. 89°59'E., on true line, bet. secs. 4 and 33.

Over NW. slope, through scattering brush, asc. 161 ft.

14.30

Ridge, brs. NE. and SW.; desc. 366 ft. over general SE. slope.

40.00

Set an iron post, 3 ft. long, 1 in. diam., 8 ins. in the ground to bedrock, with a stone mkd. +, deposited at base, in a mound of stone, 4 ft. base, 2 ft. high, for ¼ sec. cor. of secs. 4 and 33, with brass cap marked

¼	<u>S 33</u>
	S 4
1934	

Descend 545 ft. over general SE. slope.

50.00

Spur, slopes SE.; thence over general E. slope, desc. 255 ft.

80.00

The cor. of secs. 3, 4, 33 and 34, which is an iron post, 3 ins. diam., set, marked and witnessed as described in the official record.

Land, mountainous.

Soil, gravelly; 3rd and 4th rate.

Timber, a few scattering pinyon, juniper and oak.

Undergrowth, oak and cactus.

## RESURVEY OF A PORTION OF THE SUBDIVISION LINES OF

T. 4 S., R. 28 E.

From the ¼ sec. cor. of secs. 33 and 34.

North, on a random line, bet. secs. 33 and 34.

40.00

No trace of the cor. of secs. 27, 28, 33 and 34. Set temp. sec. cor.

## RESURVEY OF A PORTION OF THE SUBDIVISION LINES OF

T. 4 S., R. 28 E.

Chains	Thence East, on a random line, bet. secs. 27 and 34.								
40.11	A point 23 lks. S. of the $\frac{1}{4}$ sec. cor. of secs. 27 and 34, which is an iron post, 1 in. diam., 10 ins. above ground, mkd. and witnessed as described in the official record. I return to the temp. cor. of secs. 27, 28, 33 and 34.								
	Thence North, on a random line, bet. secs. 27 and 28.								
40.00	A point 23 lks. W. of the $\frac{1}{4}$ sec. cor. of secs. 27 and 28, which is an iron post, 1 in. diam., set, marked and witnessed as described in the official record.								
	Thence S. $0^{\circ}20'W.$ , on true line, bet. secs. 27 and 28. Over general NE. slope, through scattering timber and undergrowth, asc. 650 ft.								
11.50	Ridge, brs. NE. and SW.; continue ascent over NE. slope.								
19.00	Spur, slopes E.; desc. 260 ft. over SE. slope.								
34.00	Gulch, course NE.; asc. 180 ft. over NE. slope.								
40.00	A point which is midway in latitude, bet. the $\frac{1}{4}$ sec. cor. of secs. 27 and 28, and the $\frac{1}{4}$ sec. cor. of secs. 33 and 34, and record distance W., in departure, from the $\frac{1}{4}$ sec. cor. of secs. 27 and 34. Set an iron post, 3 ft. long, 2 ins. diam., 6 ins. in the ground to bedrock, in a mound of stone, 5 ft. base, $2\frac{1}{2}$ ft. high, for cor. of secs. 27, 28, 33 and 34, with brass cap marked <div style="text-align: center;"> <table border="1"> <tbody> <tr> <td>T4S</td> <td>R28E</td> </tr> <tr> <td>S28</td> <td>S27</td> </tr> <tr> <td>S33</td> <td>S34</td> </tr> <tr> <td colspan="2">1934</td> </tr> </tbody> </table> </div>	T4S	R28E	S28	S27	S33	S34	1934	
T4S	R28E								
S28	S27								
S33	S34								
1934									
	from which A pinyon tree, 12 ins. diam., brs. S. $9^{\circ}30'E.$ , 328 lks. dist., mkd. T4S R28E S34 BT. A mark +, chiseled on a rock ledge, followed by marks, BO S28, brs. N. $72^{\circ}30'W.$ , 41 lks. dist. Land, mountainous. Soil, gravelly; 3rd rate. Timber, scattering pinyon, juniper and oak. Undergrowth, mountain mahogany and oak.								
	Thence South, on true line, bet. secs. 33 and 34 Over N. slope, through scattering brush, asc. 200 ft.								
8.00	Ridge, brs. N. $80^{\circ}E.$ and S. $80^{\circ}W.$ ; desc. over broken SE. slope, 525 ft.								
24.25	Bottom of gulch, course E.; asc. over N. slope, 230 ft.								
30.50	Ridge, brs. E. and W.; trail follows ridge; desc. 240 ft.								



## RESURVEY OF A PORTION OF THE SUBDIVISION LINES OF

BOOK 4026

T. 4 S., R. 28 E.

Chains over S. slope.  
 39.00 Bottom of canyon, course E.; asc. 25 ft. over N. slope.  
 40.00 The  $\frac{1}{4}$  sec. cor. of secs. 33 and 34, which is an iron post, 1 in. in diam., set, mkd. and witnessed as described in the official record.  
 Land, mountainous.  
 Soil, gravelly; 3rd rate.  
 No timber; undergrowth, scattering oak, locust and grass.

## SUBDIVISION OF A PORTION OF T. 4 S., R. 28 E.

From the cor. of secs. 4, 5, 32 and 33, on the S. bdy. of the Tp., hereinbefore described.

N.  $0^{\circ}02'W.$ , bet. secs. 32 and 33.

Over SW. slope, through scattering timber and undergrowth, desc. 797 ft.

25.25 Bottom of gulch, 50 lks. wide, course NE.; asc. 345 ft. over SE. slope.

34.90 Spur, slopes NE.; desc. 165 ft.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 12 ins. in the ground to bedrock, in a mound of stone, 4 ft. base, 2 ft. high, for  $\frac{1}{4}$  sec. cor. of secs. 32 and 33, with brass cap marked.

$\frac{1}{4}$   
 S32 | S33  
 1934

from which

A juniper tree, 7 ins. in diam., bears S.  $7^{\circ}30'W.$ , 353 lks. dist., mkd.  $\frac{1}{4}$  S32 BT.

Descend 477 ft. over NW. slope.

58.40 Enter wash, course NE.

61.40 Leave wash; asc. 132 ft.

68.70 Spur, slopes NE.; desc. 128 ft.

78.80 Ravine, near head, course NE.

79.70 Low rocky spur, slopes NE.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 10 ins. in the ground to bedrock, in a mound of stone, 5 ft. base, 2 ft. high, for cor. of secs. 28, 29, 32 and 33, with brass cap marked

T4S R28E  
 S29 | S28  
 S32 | S33  
 1934

from which

A pinyon tree, 5 ins. diam., bears S.  $4^{\circ}30'W.$ , 343 lks. dist., mkd. BT, only.

A pinyon tree, 4 ins. diam., bears N.  $69^{\circ}00'W.$ , 30 lks. dist., mkd. BT, only.

## SUBDIVISION OF A PORTION OF T. 4 S., R. 28 E.

Chains	Land, mountainous. Soil, rocky; 3rd and 4th rate. Timber, scattering pinyon, juniper and oak. Undergrowth, oak, locust and cactus.
40.00	S. 89°59'E., on a random line, bet. secs. 28 and 33. Set temp. $\frac{1}{4}$ sec. cor.
79.96	Intersect N. and S. line, 9 lks. N. of the cor. of secs. 27, 28, 33 and 34, hereinbefore described. Thence N. 89°55'W., on true line, bet. secs. 28 and 33. Along N. slope, through scattering undergrowth. .90 Gully, course N.; asc. 116 ft. over NE. slope. 9.30 Low spur, slopes N.; desc. 25 ft. 18.10 Head of gulch, course NE.; asc. 383 ft. over SE. slope. 33.30 Ridge, bears NW. and SE.; desc. 268 ft. over W. slope. 39.38 Set an iron post, 3 ft. long, 1 in. in diam., 18 ins. in the ground to bedrock, in a mound of stone, 4 ft. base, 1 $\frac{1}{2}$ ft. high, for witness $\frac{1}{4}$ sec. cor. of secs. 28 and 33, with brass cap marked $\text{WC } \frac{1}{4} \begin{array}{l} \text{S } 28 \\ \text{S } 33 \\ 1934 \end{array}$ from which A pinyon tree, 16 ins. diam., bears S. 76°00'W., 85 lks. dist., mkd. WC $\frac{1}{4}$ S33 BT.
39.98	True point for $\frac{1}{4}$ sec. cor. in bottom of gully, course NW. Descend 360 ft. over NW. slope.
52.50	Bottom of gulch, 1 ch. wide, course N.; asc. 151 ft.
64.00	Spur, slopes N.; desc. 140 ft.
69.70	Enter gulch, course NE.
72.50	Leave gulch; asc. 170 ft. over E. slope.
77.90	Ravine, course NE.
79.96	The cor. of secs. 28, 29, 32 and 33. Land, mountainous. Soil, gravelly; 3rd rate. Timber, scattering pinyon and juniper. Undergrowth, oak and mahogany.
	N. 0°02'W., bet. secs. 28 and 29. Over SE. slope, through scattering brush, asc. 129 ft.

## SUBDIVISION OF A PORTION OF T. 4 S., R. 28 E.

BOOK 4026

Chains	
4.20	Sharp top spur, slopes E., desc. 196 ft.
10.40	Bottom of gulch, 50 lks. wide, course E.; asc. 537 ft. over SE. slope.
24.90	Ridge, brs. W. and NE.; desc. 317 ft. over NW. slope.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the ground to bedrock, in a mound of stone, 3 ft. base, 1½ ft. high, for ¼ sec. cor. of secs. 28 and 29, with brass cap marked
	$\begin{array}{c} \frac{1}{4} \\ \hline \text{S29} \mid \text{S28} \\ \hline 1934 \end{array}$
	from which
	A pinyon tree, 8 ins. diam., brs. S.69°15'E., 180 lks. dist., mkd. ¼ S28 BT.
	A pinyon tree, 9 ins. diam., brs. S.9°45'W., 50 lks. dist., mkd. ¼ S29 BT.
	Descend 204 ft. over N. slope.
46.40	Bottom of gulch, course E.; trail follows gulch; asc. 773 ft. over SE. slope.
68.40	Ridge, brs. NW. and SE.; desc. 168 ft. over NE. slope.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 8 ins. in the ground to bedrock, in a mound of stone, 5 ft. base, 2 ft. high, for cor. of secs. 20, 21, 28 and 29, with brass cap marked
	$\begin{array}{c} \text{T4S} \mid \text{R28E} \\ \hline \text{S20} \mid \text{S21} \\ \hline \text{S29} \mid \text{S28} \\ \hline 1934 \end{array}$
	from which
	A pinyon tree, 8 ins. diam., brs. N.72°45'E., 265 lks. dist., mkd. T4S R28E S21 BT.
	A juniper tree, 5 ins. diam., brs. S.55°15'E., 180 lks. dist., mkd. T4S R28E S28 BT.
	A juniper tree, 5 ins. diam., brs. S.25°15'W., 171 lks. dist., mkd. T4S R28E S29 BT.
	A pinyon tree, 6 ins. diam., brs. N.61°45'W., 105 lks. dist., mkd. T4S R28E S20 BT.
	Land, mountainous. Soil, rocky; 3rd and 4th rate. Timber, scattering pinyon, juniper and oak. Undergrowth, oak and cactus.
	S. 89°55'E., on a random line, bet. secs. 21 and 28.
40.00	Set temp. ¼ sec. cor.
80.22	Intersect N. and S. line, 30 lks. N. of the cor. of secs. 21, 22, 27 and 28, which is an iron post, 2 ins. diam., set, mkd. and witnessed as described in the official record.
	Thence

## SUBDIVISION OF A PORTION OF T. 4 S., R. 28 E.

Chains	N. 89°42'W., on true line, bet. secs. 21 and 28. Over SW. slope, through scattering timber and undergrowth, desc. 37 ft.
8.70	Thence, over SE. slope, asc. 238 ft.
18.50	Trail, brs. NW. and SE.
21.90	Spur, slopes SE.; desc. 52 ft.
27.30	Ravine, course SE.; asc. 25 ft.
30.50	Trail, brs. NW. and SE.
33.00	Small spur, slopes SE.; desc. 60 ft.
36.80	Set an iron post, 3 ft. long, 1 in. diam., 3 ins. in the ground to bedrock, in a mound of stone, 5 ft. base, 2½ ft. high, for witness ¼ sec. cor. of secs. 21 and 28, with brass cap marked
	$\begin{array}{c} \text{WC } \frac{1}{4} \text{ S } 21 \\ \text{S } 28 \\ 1934 \end{array}$
	from which
	An oak tree, 10 ins. diam., brs. S. 27°00'W., 181 lks. dist., mkd. WC ¼ S28 BT.
40.11	True point for ¼ sec. cor. in bottom of gulch, course SE.; asc. 727 ft. over NE. slope.
41.00	Trail, brs. NW. and SE.
80.22	The cor. of secs. 20, 21, 28 and 29.

Land, mountainous.  
Soil, rocky; 4th rate.  
Timber, scattering pinyon, juniper and oak.  
Undergrowth, oak, willow and cactus.

	N. 0°02'W., bet. secs. 20 and 21. Over N. slope, through scattering timber and brush, desc. 550 ft.
16.00	Bottom of gulch, course SE.; asc. 623 ft. over S. slope.
17.00	Trail, brs. E. and W.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground to bedrock, in a mound of stone, 5 ft. base, 2 ft. high, for ¼ sec. cor. of secs. 20 and 21, with brass cap marked

$$\begin{array}{c} \frac{1}{4} \\ \text{S20} | \text{S21} \\ 1934 \end{array}$$

from which

A juniper tree, 5 ins. diam., brs. S. 75°30'W., 115 lks. dist., mkd. ¼ S20 BT.

A pinyon tree, 8 ins. diam., brs. N. 77°00'E., 250 lks. dist., mkd. ¼ S21 BT.

Ascend 339 ft. over S. slope.

## SUBDIVISION OF A PORTION OF T. 4 S., R. 28 E.

BOOK 4026

Chains  
 48.70 Wire fence, brs. E. and W.  
 49.50 Ridge, brs. E. and W.; desc. 555 ft. over N. slope.  
 65.70 Gulch, 20 lks. wide, course NW.; asc. slightly.  
 72.00 Spur, slopes NW.; desc. 182 ft. over NW. slope.  
 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 6 ins. in the ground to bedrock, in a mound of stone, 4 ft. base, 2½ ft. high, for cor. of secs. 16, 17, 20 and 21, with brass cap marked

T4S	R28E
S17	S16
S20	S21
1934	

from which

A pinyon tree, 14 ins. diam., brs. N. 24° 45' E., 192 lks. dist., mkd. T4S R28E S16 BT.

A juniper tree, 7 ins. diam., brs. S. 56° 45' E., 192 lks. dist., mkd. T4S R28E S21 BT.

A pinyon tree, 18 ins. diam., brs. N. 80° 00' W., 75 lks. dist., mkd. T4S R28E S17 BT.

Land, mountainous.  
 Soil, rocky; 3rd and 4th rate.  
 Timber, scattering pinyon and juniper.  
 Undergrowth, oak and cactus.

S. 89° 42' E., on a random line, bet. secs. 16 and 21.

40.00 Set temp. ¼ sec. cor.

80.31 Intersect N. and S. line, 42 lks. S. of the cor. of secs. 15, 16, 21 and 22, which is an iron post, 2 ins. diam., 10 ins. above ground, mkd. and witnessed as described in the official record.

Thence

West, on true line, bet. secs. 16 and 21.

Over NE. slope, through scattering timber and undergrowth, asc. 172 ft.

9.60 Thence over NW. slope, desc. slightly.

13.30 Gulch, 30 lks. wide, course NE.; asc. 489 ft. over E. slope.

38.60 Ravine, course NE.

40.16 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in rock slide, for ¼ sec. cor. of secs. 16 and 21, with brass cap marked

¼	S 16
	S 21
1934	

from which

A pinyon tree, 6 ins. diam., brs. N. 54° 30' W., 150 lks. dist., mkd. ¼ S16 BT.

A pinyon tree, 14 ins. diam., brs. S. 51° 15' E., 89 lks.

SUBDIVISION OF A PORTION OF T. 4 S., R. 28 E.

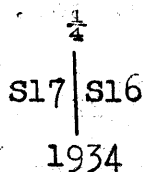
Chains dist., mkd.  $\frac{1}{4}$  S.21 BT.  
 Ascend 507 ft. over E. slope.  
 52.30 Ridge, brs. NW. and SE.; desc. 668 ft. over SW. slope.  
 75.30 Gulch, course NW.; asc. 13 ft.  
 76.80 Spur, slopes NW.; desc. 43 ft. over W. slope.  
 80.31 The cor. of secs. 16, 17, 20 and 21.

Land, mountainous.  
 Soil, rocky; 3rd and 4th rate.  
 Timber, scattering pinyon, juniper and oak.  
 Undergrowth, mountain mahogany and oak.

N. 0°02'W., bet. secs. 16 and 17.

Over N. slope, through scattering timber and undergrowth, desc. 50 ft.

1.50 Gulch, course W.; asc. 254 ft. over SW. slope.  
 14.00 Thence over NW. slope, desc. 284 ft.  
 25.70 Ravine, course NW.; asc. 54 ft.  
 31.00 Spur, slopes W.; desc. 157 ft. over NW. slope.  
 37.50 Gulch, course W.; asc. 50 ft.  
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground to bedrock, in a mound of stone, 5 ft. base, 2 ft. high, for  $\frac{1}{4}$  sec. cor. of secs. 16 and 17, with brass cap marked



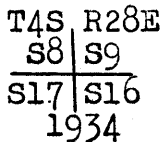
from which

A pine tree, 7 ins. diam., brs. S.75°00'E., 57 lks. dist., mkd.  $\frac{1}{4}$  S16 BT.

A pine tree, 8 ins. diam., brs. N.78°15'W., 65 lks. dist., mkd.  $\frac{1}{4}$  S17 BT.

Ascend 123 ft. over SW. slope.

55.80 Spur, slopes W.; desc. 131 ft. over NW. slope.  
 63.90 Ravine, course W.; asc. slightly.  
 66.50 Thence over NW. slope, desc. 370 ft.  
 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 18 ins. in the ground to bedrock, in a mound of stone, 5 ft. base, 1½ ft. high, for cor. of secs. 8, 9, 16 and 17, with brass cap marked



from which

A pinyon tree, 5 ins. diam., brs. N.41°30'E., 74 lks. dist.,

## SUBDIVISION OF A PORTION OF T. 4 S., R. 28 E.

4026

Chains	<p>mkd. T4S R28E S9 BT.</p> <p>A juniper tree, 12 ins. diam., bears S.65°00'E., 29 lks. dist., mkd. T4S R28E S16 BT.</p> <p>A pinyon tree, 10 ins. diam., bears S.63°15'W., 107 lks. dist., mkd. T4S R28E S17 BT.</p> <p>A juniper tree, 10 ins. diam., bears N.66°15'W., 55 lks. dist., mkd. T4S R28E S8 BT.</p> <p>Land, mountainous. Soil, rocky; 4th rate. Timber, pine, pinyon and juniper. Undergrowth, oak.</p>
40.00	<p>East, on a random line, bet. secs. 9 and 16.</p> <p>Set temp. <math>\frac{1}{4}</math> sec. cor.</p>
80.20	<p>Intersect N. and S. line, 14 lks. N. of the cor. of secs. 9, 10, 15 and 16, which is an iron post, 2 ins. in diam. set, mkd. and witnessed as described in the official record.</p> <p>Thence</p> <p>N. 89°54'W., on true line, bet. secs. 9 and 16.</p> <p>Over NE. slope, through scattering timber and undergrowth, asc. 224 ft.</p>
18.50	Spur; slopes SE.; desc. 80 ft.
32.90	Gulch, course SE.; asc. 48 ft.
39.34	<p>Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground to bedrock, in a mound of stone, 4 ft. base, 2 ft. high, for witness <math>\frac{1}{4}</math> sec. cor. of secs. 9 and 16, with brass cap marked</p> $\begin{array}{r} \text{WC } \frac{1}{4} \text{ } \\ \hline \text{S 9} \\ \text{S16} \\ 1934 \end{array}$ <p style="text-align: right;">from which</p> <p>A pinyon tree, 6 ins. diam., bears N.47°15'E., 64 lks. dist., mkd. WC <math>\frac{1}{4}</math> S9 BT.</p> <p>A pinyon tree, 5 ins. diam., bears S.24°45'E., 31 lks. dist., mkd. WC <math>\frac{1}{4}</math> S16 BT.</p> <p>Ascend 524 ft. over general NE. slope.</p>
40.10	True point for the $\frac{1}{4}$ sec. cor. in wash, course NE.
47.20	Ravine, course NE.
66.00	Ridge, brs. NW. and SE.; desc. 322 ft. over NW. slope.
70.80	Ravine, course NW.
80.20	The cor. of secs. 8, 9, 16 and 17.
	<p>Land, mountainous. Soil, rocky and gravelly; 3rd and 4th rate. Timber, pinyon and juniper. Undergrowth, oak.</p>

## SUBDIVISION OF A PORTION OF T. 4 S., R. 28 E.

Chains	N. 0°02'W., on a random line, bet. secs. 8 and 9.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.80	Intersect E. and W. line, 51 lks. W. of the cor. of secs. 4, 5, 8 and 9, which is an iron post, 2 ins. in diam., 10 ins. above ground, mkd. and witnessed as described in the official record.
	Thence
	S.0°20'W., on true line, bet. secs. 8 and 9.
	Over general N. slope, through scattering timber and brush, asc. 337 ft.
7.70	Ravine, course NE.
15.20	Ridge, brs. N.80°E. and S.80°W.; desc. 313 ft.
30.50	Bottom of gulch, course NE.; asc. 108 ft.
36.80	Ravine, course W.
39.90	Set an iron post, 3 ft. long, 1 in. in diam., 12 ins. in the ground to bedrock, in a mound of stone, 4 ft. base, 2 ft. high, for $\frac{1}{4}$ sec. cor. of secs. 8 and 9, with brass cap marked
	$\frac{1}{4}$ S8   S9 1934
	from which
	A juniper tree, 5 ins. in diam., bears S.15°30'E., 42 lks. dist., mkd. $\frac{1}{4}$ S9 BT.
	A juniper tree, 14 ins. diam., bears S.40°45'W., 186 lks. dist., mkd. $\frac{1}{4}$ S8 BT.
	Descend 25 ft. over SW. slope.
45.70	Thence over NW. slope, asc. 451 ft.
59.70	Gulch, course W.
74.30	Ravine, course NW.
79.80	The cor. of secs. 8, 9, 16 and 17.
	Land, mountainous. Soil, rocky and gravelly; 3rd and 4th rate. Timber, pinyon and juniper. Undergrowth, oak.
	From the cor. of secs. 5, 6, 31 and 32, on the S. bdy. of the Tp., hereinbefore described.
	N. 0°03'W., bet. secs. 31 and 32.
	Over SW. slope, through scattering timber and undergrowth, asc. 297 ft.
13.10	Ridge, brs. NW. and SE.; desc. 598 ft. over N. slope.
40.00	Set an iron post, 3 ft. long, 1 in. in diam., 6 ins. in the ground to bedrock, in a mound of stone, 4 ft. base, 2 $\frac{1}{2}$ ft. high, for $\frac{1}{4}$ sec. cor. of secs. 31 and 32, with brass



## SUBDIVISION OF A PORTION OF T. 4 S., R. 28 E.

Chains	cap marked
	$\frac{1}{4}$ S31   S32 1934
	from which
	<p>A juniper tree, 9 ins. diam., bears S.57°45'E., 31 lks. dist., mkd. <math>\frac{1}{4}</math> S32 BT.</p> <p>Descend 266 ft. over N. slope.</p>
47.40	Bottom of gulch, 40 lks. wide, course E.; asc. 242 ft. over S. slope.
57.70	Spur, slopes E.; desc. 680 ft. over N. slope.
76.20	Bottom of gulch, course N.80°E., 150 lks. wide; asc. 75 ft. over S. slope.
79.70	Set an iron post, 3 ft. long, 2 ins. diam., 12 ins. in the ground to bedrock, in a mound of stone, 4 ft. base, 2 ft. high, for witness cor. of secs. 29, 30, 31 and 32, with brass cap marked
	W C T4S   R28E S30   S29 S31   S32 1934
	from which
	<p>An oak tree, 12 ins. diam., brs. N.52°00'W., 93 lks. dist. mkd. WC T4S R28E S30 BT.</p> <p>An oak tree, 18 ins. diam., brs. S.69°15'W., 117 lks. dist., mkd. WC T4S R28E S31 BT.</p> <p>An oak tree, 26 ins. diam., brs. S.45°15'E., 34 lks. dist. mkd. WC T4S R28E S32 BT.</p>
80.00	True point for the cor. of secs. 29, 30, 31 and 32. in edge of small ravine, course SE.
	<p>Land, mountainous.</p> <p>Soil, rocky; 3rd and 4th rate.</p> <p>Timber, oak, pinyon and juniper.</p> <p>Undergrowth, oak, mountain mahogany and locust.</p>
	"
	S. 89°59'E., on a random line, bet. secs. 29 and 32.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.84	Intersect N. and S. line, 9 lks. N. of the cor. of secs. 28, 29, 32 and 33.
	Thence
	N. 89°55'W., on true line, bet. secs. 29 and 32.
	Over E. slope, through scattering timber and undergrowth, asc. 171 ft.
10.80	Spur, slopes NE.; thence over NE. slope, asc. 196 ft.
24.80	Top of ascent; thence over NW. slope, desc. 260 ft.

SUBDIVISION OF A PORTION OF T. 4 S., R. 28 E.

Chains

39.60

Ravine, course NE.; asc. 11 ft.

39.92

Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground to bedrock, with a stone mkd. + deposited at base, in a mound of stone, 4 ft. base, 2 ft. high, for  $\frac{1}{4}$  sec. cor. of secs. 29 and 32, with brass cap marked

$\frac{1}{4}$   $\frac{S\ 29}{S\ 32}$   
1934

Ascend 342 ft. over SE. slope.

50.40

Spur, slopes NE.; desc. 378 ft. over NW. slope.

70.10

Bottom of gulch, 150 lks. wide, course NE.; asc. 116 ft. over SE. slope.

79.84

The true point for cor. of secs. 29, 30, 31 and 32.

Land, mountainous.  
Soil, rocky and gravelly; 3rd and 4th rate.  
Timber, pinyon juniper and oak.  
Undergrowth, oak, mountain mahogany and locust.

74.66

N. 89°59'W., on a random line, bet. secs. 30 and 31.  
Intersect W. bdy. of Tp., 14 lks. N. of the cor. of secs. 25, 30, 31 and 36, hereinbefore described.

Thence

N. 89°55'E., on true line, bet. secs. 30 and 31.

Over rocky W. slope, through scattering timber and brush, asc. 365 ft.

17.34

Intersect boundary of the White Mountain Indian Reservation. At point of intersection,

Set an iron post, 3 ft. long, 2 ins. diam., over a mark +, chiseled on surface of a rock ledge, in a mound of stone, 5 ft. base, 3 ft. high, for closing cor. of secs. 30 and 31, with brass cap marked

T4S  
S30  
CC — S31 — WMIR  
R28E  
1934

No other suitable accessory.

From this point, the 73rd mile monument of the White Mountain Indian Reservation, bears as follows:

N. 6°00'E.,

.19

To a point.

Thence

N. 50°00'W.,

13.80

To the 73rd mile monument of the White Mountain Indian

## SUBDIVISION OF A PORTION OF T. 4 S., R. 28 E.

Chains

Reservation, hereinbefore described.

From same point, the 73½ mile monument of the White Mountain Indian Reservation, bears as follows:

S. 6°00'W., 2.51 chs. dist., to a point.

Thence

S. 19°30'W., 2.50 chs. dist., to a point.

Thence

S. 11°15'W., 4.60 chs. dist., to a point.

Thence

S. 40°15'W., 2.70 chs. dist., to a point.

Thence

S. 49°30'W., 4.80 chs. dist., to a point.

Thence

S. 72°45'W., 5.20 chs. dist., to a point.

Thence

S. 17°30'E., 3.70 chs. dist.,

To the 73½ mile monument of the White Mountain Indian Reservation, which is an iron post, 1 in. in diam., set, mkd. and witnessed as described in the official record.

Thence, from closing cor., continue measurement on blank line, across reservation.

49.15

Intersect boundary of White Mountain Indian Reservation.

At point of intersection,

Set an iron post, 3 ft. long, 2 ins. diam., 6 ins. in the ground to bedrock, in a mound of stone, 6 ft. base, 2½ ft. high, for closing cor. of secs. 30 and 31, with brass cap marked

WMIR	T4S	CC
	S30	
	S31	
	R28E	
	1934	

from which

A juniper tree, 6 ins. diam., bears N. 33°30'E., 223 lks. dist., mkd. T4S R28E S30 CC BT.

An oak tree, 10 ins. diam., bears S. 62°15'E., 278 lks. dist., mkd. T4S R28E S31 CC BT.

From this point, the 75½ mile monument of the White Mountain Indian Reservation, bears N. 20°25'E., 11.27 chs. dist., an iron post, 1 in. diam., set, mkd. and witnessed as described in the official record.

From same point, the 75th mile monument of the White Mountain Indian Reservation, bears S. 20°25'W., 28.73 chs. dist., an iron post, 3 ins. diam., set, mkd. and witnessed as described in the official record.

Thence, over SW. slope, asc. 24 ft.

51.80

Spur, slopes SE.; desc. over general SE. slope, 304 ft.

SUBDIVISION OF A PORTION OF T. 4 S., R. 28 E.

Chains

55.10 Ravine, course SE.

60.10 Spur, slopes SE.

64.10 Ravine, course SE.

69.70 Spur, slopes SE.

74.66 True point for cor. of secs. 29, 30, 31 and 32.

Land, mountainous.  
Soil, rocky and gravelly; 3rd and 4th rate.  
Timber, a few scattering oak and juniper.  
Undergrowth, oak, locust and cactus.

N. 0°03'W., bet. secs. 29 and 30.

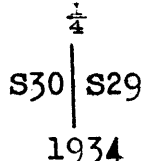
Over SE. slope, through scattering timber and undergrowth,  
asc. 420 ft.

16.00 Spur, slopes N.60°E.; desc. 147 ft.

20.20 Ravine, near head, course NE.; desc. 188 ft. over SE. slope.

30.00 Spur, slopes N.80°E.; desc. 88 ft. over NE. slope.

40.00 Set an iron post, 3 ft. long, 1 in. diam., over a mark +,  
chiseled on surface of a rock ledge, in a mound of stone,  
4 ft. base, 2½ ft. high, for ¼ sec. cor. of secs. 29 and  
30, with brass cap marked



from which

A juniper tree, 6 ins. diam., bears S.37°00'W., 40 lks.  
dist., mkd. ¼ S30 BT.

A pinyon tree, 6 ins. diam., bears N.24°30'E., 59 lks.  
dist., mkd. ¼ S29 BT.

Thence along E. slope.

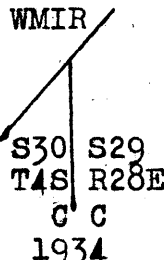
44.60 Ridge, bears NE. and SW.; fence follows ridge.

49.00 Descend 356 ft. over NW. slope.

65.60 Ravine, course NW.

67.81 Intersect boundary of the White Mountain Indian Reserva-  
tion. At point of intersection,

Set an iron post, 3 ft. long, 2 ins. diam., 18 ins. in  
the ground to bedrock, in a mound of stone, 5 ft. base,  
1½ ft. high, for closing cor. of secs. 29 and 30, with  
brass cap marked



from which

SUBDIVISION OF A PORTION OF T. 4 S., R. 28 E.

BOOK 4026

Chains

An oak tree, 5 ins. diam., brs. S.13°15'W., 146 lks. dist. mkd. T4S R28E S30 CC BT.

An oak tree, 16 ins. diam., brs. S.38°00'E., 162 lks. dist., mkd. T4S R28E S29 BT.

From this point, the 76½ mile monument of the White Mountain Indian Reservation, brs. N. 20°25'E., 18.75 chs. dist., an iron post, 1 in. diam., set, mkd. and witnessed as described in the official record.

From same point, the 76th mile monument of the White Mountain Indian Reservation, brs. S. 20°25'W., 21.25 chs. dist.

Land, mountainous.  
Soil, rocky and gravelly; 3rd and 4th rate.  
Timber, a few scattering oak and juniper.  
Undergrowth, oak.

From the cor. of secs. 20, 21, 28 and 29, hereinbefore described.

West, on true line, bet. secs. 20 and 29.

Along N. slope, through scattering timber and undergrowth.

10.50 Descend 40 ft. over NW. slope.

21.50 Head of ravine, course NE.; asc. 339 ft. over NE. slope.

23.17 Wire fence, brs. N. and S.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground to bedrock, in a mound of stone, 4 ft. base, 2 ft. high, for ¼ sec. cor. of secs. 20 and 29, with brass cap marked

¼ S 20  
S 29

1934.

from which

A juniper tree, 10 ins. diam., brs. N.32°45'E., 117 lks. dist., mkd. ¼ S20 BT.

A juniper tree, 8 ins. diam., brs. S.35°00'W., 46 lks. dist., mkd. ¼ S29 BT.

This cor. is on top of ridge, near bend from NE. to SE.

45.60 Descend 275 ft. over NW. slope.

57.60 Ravine, course N.; asc. 61 ft.

63.00 Spur, slopes N.; desc. 218 ft. over W. slope.

72.90 Set an iron post, 3 ft. long, 2 ins. diam., 26 ins. in the ground, for witness closing cor. of secs. 20 and 29, with brass cap marked

WC T4S  
WMIR S20 CC  
S29  
R28E  
1934

from which

An oak tree, 12 ins. diam., brs. S.10°00'W., 73 lks. dist.

## SUBDIVISION OF A PORTION OF T. 4 S., R. 28 E.

Chains	<p>mkd. WC T4S R28E S29 CC BT.</p> <p>A pinyon tree, 12 ins. diam., brs. N.35°30'W., 174 lks. dist., mkd. WC T4S R28E S20 CC BT.</p>
74.60	Bottom of gulch, 40 lks. wide, course NE.; asc. 5 ft.
75.44	<p>Intersect the boundary of the White Mountain Indian Reservation. The point of intersection with boundary is on sloping bank of gulch, where a cor. monument would be insecure.</p> <p>From this point, the 76<math>\frac{1}{2}</math> mile monument of the White Mountain Indian Reservation, brs. N. 20°25'E., 5.92 chs. dist.</p> <p>From same point, the 76th mile monument of the White Mountain Indian Reservation, hereinbefore described, brs. S. 20°25'W., 34.08 chs. dist.</p> <p>Land, mountainous. Soil, gravelly; 3rd rate. Timber, a few scattering pinyon, juniper and oak. Undergrowth, oak and cactus.</p>
	<p>From the cor. of secs. 16, 17, 20 and 21, hereinbefore described.</p> <p>West, on true line, bet. secs. 17 and 20.</p> <p>Over NW. slope, through scattering timber and undergrowth, desc. 168 ft.</p>
4.80	Trail, brs. NW. and SE.
6.30	Gulch, course NW.; Trail follows gulch.
11.00	Spur, slopes N. 10° W.; desc. 130 ft. over W. slope.
18.30	Bottom of gulch, 30 lks. wide, course N.10°E.
18.60	Trail, brs. N. and S.; asc. 544 ft. over E. slope.
40.00	<p>Set an iron post, 3 ft. long, 1 in. diam., 3 ins. in the ground to bedrock, in a mound of stone, 5 ft. base, 2<math>\frac{1}{2}</math> ft. high, for <math>\frac{1}{4}</math> sec. cor. of secs. 17 and 20, with brass cap marked</p> <p style="text-align: center;"> <math>\frac{1}{4}</math> <math>\frac{S\ 17}{S\ 20}</math>  1934 </p> <p style="text-align: right;">from which</p>
	<p>A pine tree, 5 ins. diam., brs. S.56°15'W., 26 lks. dist., mkd. <math>\frac{1}{4}</math> S20 BT.</p> <p>A pine tree, 10 ins. diam., brs. N.45°30'W., 101 lks. dist., mkd. <math>\frac{1}{4}</math> S17 BT.</p> <p>Ascend 181 ft. over E. slope.</p>
45.49	<p>Intersect boundary of the White Mountain Indian Reservation. At point of intersection,</p> <p>Set an iron post, 3 ft. long, 2 ins. diam., over a mark +, chiseled on surface of a rock ledge, in a mound of stone, 4 ft. base, 2<math>\frac{1}{2}</math> ft. high, for closing cor. of secs. 17 and 20, with brass cap marked.</p>

SUBDIVISION OF A PORTION OF T. 4 S., R. 28 E.

BOOK 4026

Chains

WMIR	T4S	
	S17	CC
	S20	
	R28E	
	1934	

From this point, the 77½ mile monument of the White Mountain Indian Reservation, brs. N. 20°47'E., 28 lks. dist. an iron post, 1 in. diam., 10 ins. above ground, mkd. and witnessed as described in the official record.

From same point, old monument No. 17, of the White Mountain Indian Reservation, brs. S. 20°47' W., 33.89 chs. dist., a mound of stone, 4 ft. base, 6 ft. high, witnessed as described in the official record.

Land, mountainous.  
Soil, rocky; 4th rate.  
Timber, scattering pine, pinyon and oak.  
Undergrowth, oak.

From the cor. of secs. 8, 9, 16 and 17, hereinbefore described.

West, on true line, bet. secs. 8 and 17.

Over NW. slope, through scattering timber and undergrowth, desc. 263 ft.

8.60 Bottom of gulch, course NE., 140 lks. wide; asc. 706 ft. over E. slope.

33.80 Ridge, brs. NE. and SW.; desc. 26 ft.

37.50 Head of ravine, course NE.; asc. 12 ft.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for ¼ sec. cor. of secs. 8 and 17, with brass cap marked

¼	S 8	
	S17	
	1934	

from which

A pinyon tree, 10 ins. diam., brs. S.1°15'E., 26 lks. dist., mkd. ¼ S17 BT.

An oak tree, 4 ins. diam., brs. N.18°00'W., 4 lks. dist., mkd. ¼ S8 BT.

Ascend 35 ft. over NE. slope.

41.90 Spur, slopes N.; desc. 30 ft.

44.27 Intersect boundary of the White Mountain Indian Reservation. At point of intersection,

Set an iron post, 3 ft. long, 2 ins. diam., 3 ins. in the ground to bedrock, in a mound of stone, 4 ft. base, 2½ ft. high, for closing cor. of secs. 8 and 17, with brass cap marked

WMIR	T4S	
	S 8	CC
	S17	
	R28E	
	1934	

from which

A juniper tree, 16 ins. diam., brs. N.18°00'E., 52 lks. dist., mkd. T4S R28E S8 CC BT.

## SUBDIVISION OF A PORTION OF T. 4 S., R. 28 E.

Chains	<p>A pinyon tree, 10 ins. diam., brs. S. <math>38^{\circ}00'E.</math>, 46 lks. dist., mkd. T4S R28E S17 CC BT.</p> <p>This cor. is situated under Indian reservation boundary fence.</p> <p>From this point, the 56<math>\frac{1}{2}</math> mile monument of the White Mountain Indian Reservation, brs. North, 13.39 chs. dist., an iron post, 1 in. diam., set, mkd. and witnessed as described in the official record.</p> <p>From same point, the 57th mile monument of the White Mountain Indian Reservation, brs. South, 26.61 chs. dist., an iron post, 3 ins. diam., set, mkd. and witnessed as described in the official record.</p> <p>Land, mountainous. Soil, rocky; 3rd and 4th rate. Timber, pinyon and juniper. Undergrowth, oak.</p>
	<p>From the cor. of secs. 11, 12, 13 and 14, hereinafter described.</p> <p>S. <math>89^{\circ}50'E.</math>, on a random line, bet. secs. 12 and 13.</p>
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.72	Intersect E. bdy. of Tp. 14 lks. N. of the cor. of secs. 7, 12, 13 and 18, which is an iron post, 3 ins. diam., 18 ins. above ground, mkd. and witnessed as described in the official record.
	Thence
	N. $89^{\circ}44'W.$ , on true line, bet. secs. 12 and 13.
	Over W. slope, through scattering timber and undergrowth, desc. 181 ft.
6.70	Road to old mining camp, brs. NW. and SE.
20.50	Gulch, 30 lks. wide, course S.; asc. 81 ft. over SE. slope.
27.20	Spur, slopes S.; desc. 46 ft.
30.00	Trail, brs. NE. and SW.
33.70	Ravine, course S.; asc. 96 ft. over SE. slope.
39.86	Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the ground to bedrock, with a stone mkd. +, deposited at base, in a mound of stone, 3 ft. base, 1 $\frac{1}{2}$ ft. high, for $\frac{1}{4}$ sec. cor. of secs. 12 and 13, with brass cap marked
	$\frac{1}{4}$ <u>S 12</u> S 13 1934
	No other suitable accessory.
	Thence along S. slope.
44.10	Gulch, course S.; asc. 487 ft. over NE. slope.
67.00	Ridge, brs. NW. and SE.; desc. 192 ft. over W. slope.
79.72	The cor. of secs. 11, 12, 13 and 14, which is an iron



SUBDIVISION OF A PORTION OF T. 4 S., R. 28 E.

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Chains	<p>post, 2 ins. diam., set, mkd. and witnessed as described in the official record.</p> <p>Land, mountainous. Soil, gravelly; 3rd rate. Timber, a few scattering pinyon and juniper. Undergrowth, oak and cactus.</p>
	<p>N. 0°01'W., bet. secs. 11 and 12.</p> <p>Over open gradual SW. slope, asc. 107 ft.</p>
10.00	Top of ascent; thence over NW. slope, desc. 576 ft. through scattering timber and undergrowth.
30.30	Paul Niles's house, brs. W. 9 chs. distant.
30.80	Bottom of gulch, 2 chs. wide, course SW; road follows gulch; asc. 153 ft. over SE. slope. (Horseshoe Gulch)
40.00	Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground to bedrock, in a mound of stone, 3 ft. base, 2 ft. high, for a sec. cor. of secs. 11 and 12, with brass cap marked
	$\begin{array}{c} \frac{1}{4} \\ \hline S11   S12 \\ \hline 1934 \end{array}$
	from which
	A juniper tree, 8 ins. diam., brs. S.38°15'E., 70 lks. dist., mkd. $\frac{1}{4}$ S12 BT.
	No other suitable accessory.
	Ascend 185 ft. over SE. slope.
52.80	Spur, slopes SW.; desc. 57 ft.
58.30	Ravine, course SW.; asc. 329 ft. over general SE. slope.
66.50	Ravine, course SE.
68.00	Spur, slopes SE.; desc. slightly over NE. slope.
75.00	Head of ravine, course SE.; asc. 117 ft. over SE. slope.
77.20	Trail, brs. NE. and SW.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 10 ins. in the ground to bedrock, in a mound of stone, 4 ft. base, 2 ft. high, for cor. of secs. 1, 2, 11 and 12, with brass cap marked
	$\begin{array}{c} T4S R28E \\ \hline S2   S1 \\ \hline S11   S12 \\ \hline 1934 \end{array}$
	from which
	A juniper tree, 8 ins. diam., brs. S.32°00'W., 115 lks. dist., mkd. T4S R28E S11 BT.
	A juniper tree, 8 ins. diam., brs. N.87°30'W., 196 lks. dist., mkd. T4S R28E S2 BT.
	No other suitable accessory.

## SUBDIVISION OF A PORTION OF T. 4 S., R. 28 E.

Chains	Land, mountainous. Soil, gravelly; 3rd rate. Timber, a few scattering pinyon and juniper. Undergrowth, oak and cactus.
	S. 89°44'E., on a random line, bet. secs. 1 and 12.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.87	Intersect E. bdy. of Tp. 9 lks. N. of the cor. of secs. 1, 6, 7 and 12, which is an iron post, 3 ins. diam., set mkd. and witnessed as described in the official record. Thence
	N. 89°40'W., on true line, bet. secs. 1 and 12.
	Over NE. slope, through scattering timber and undergrowth, asc. 17 ft.
4.50	Thence over NW. slope, desc. 584 ft.
17.70	Intersect line 1-2 of the Pretoria Mining Claim. From this point, cor. No. 1 of this claim, brs. N. 8°47' W., 97 lks. dist., a wooden post, 4 x 4 x 48 ins. above ground, set in a mound of stone, mkd. on N. face, MW 1 3145, and on S. face, P 1. From same point, cor. No. 2 of this claim, brs. S. 8°47' E., 8.26 chs. dist., a wooden post, 4 x 4 x 48 ins. above ground, mkd. on N. face, P 2-3145, and on S. face, D 1.
24.10	Bottom of gulch, 30 lks. wide, course SW.; asc. over precipitous SE. slope, 273 ft.
27.00	Top of cliff, brs. NE. and SW.; desc. 230 ft. over SW. slope.
39.93	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. of secs. 1 and 12, with brass cap marked $\frac{1}{4}$ $\frac{S 1}{S 12}$ 1934 raise a mound of stone, 3 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. Descend 160 ft. over W. slope.
40.34	Intersect line 3-4 of the Pretoria Mining Claim. From this point, cor. No. 4 of this claim, brs. N. 8°47' W., 1.26 chs. dist., a wooden post, 4 x 4 x 36 ins. above ground, mkd. on N. face, MW 2 3145, and on S. face, P 4. From same point, cor. No. 3 of this claim, brs. S. 8°47' E., 7.97 chs. dist., a wooden post, 4 x 4 x 48 ins. above ground, mkd. on N. face, P 3-3145, and on S. face, D 4.
47.30	Horseshoe Gulch, course S.; asc. 242 ft. over SE. slope.
54.40	Ravine, course SE.
65.70	Top of ascent; desc. 31 ft. over SW. slope.
68.10	Ravine, course SW.; asc. 186 ft. over SE. slope.

## SUBDIVISION OF A PORTION OF T. 4 S., R. 28 E. LOCAL 4096

Chains 70.85	Trail, brs. NE. and SW.
79.87	The cor. of secs. 1, 2, 11 and 12.  Land, mountainous. Soil, gravelly; 3rd rate. Timber, scattering pinyon, juniper and oak. Undergrowth, oak.
40.00	N. 89°58'W., on a random line, bet. secs. 2 and 11. Set temp. $\frac{1}{4}$ sec. cor.
79.52	Intersect N. and S. line, 5 lks. S. of the cor. of secs. 2, 3, 10 and 11, which is an iron post, 2 ins. diam., set, mkd. and witnessed as described in the official record.  Thence S. 89°56'E., on true line bet. secs. 2 and 11. Over W. slope, through scattering timber and undergrowth, asc. 163 ft.
14.60	Trail, brs. NE. and SW.
16.50	Spur, slopes SW.; desc. 135 ft. over SE. slope.
24.40	Gulch, 20 lks. wide, course SW.; asc. 243 ft. over NW. slope.
33.00	Spur, slopes SW.; desc. 37 ft.
39.76	Set an iron post, 3 ft. long, 1 in. diam., 8 ins. in the ground to bedrock, with a stone mkd. +, deposited at base, in a mound of stone, 4 ft. base, 2 ft. high, for $\frac{1}{4}$ sec. cor. of secs. 2 and 11, with brass cap marked  $\frac{1}{4}$ $\frac{S 2}{S 11}$ 1934  No other suitable accessory. Descend 17 ft.
41.70	Head of ravine, course S.; asc. 78 ft.
55.80	Low spur, slopes SW.; desc. slightly.
60.40	Enter gulch, course from E. to SW.
62.85	Leave gulch, course from NE. to W.; asc. 350 ft. over W. slope.
75.50	Spur, slopes SW.; desc. 74 ft. over SE. slope.
79.52	The cor. of secs. 1, 2, 11 and 12.  Land, mountainous. Soil, gravelly; 3rd rate. Timber, a few scattering pinyon and juniper. Undergrowth, oak.

## SUBDIVISION OF A PORTION OF T. 4 S., R. 28 E.

Chains N. 0°01'W., on a random line, bet. secs. 1 and 2.

40.00 Set temp.  $\frac{1}{4}$  sec. cor.

79.67 Intersect N. bdy. of Tp., 14 lks. W. of the cor. of secs. 1, 2, 35 and 36, which is an iron post, 3 ins. diam., set mkd. and witnessed as described in the official record.

Thence

S. 0°05'W., on true line, bet. secs. 1 and 2.

Over rocky SE. slope, through scattering timber and brush, desc. 514 ft.

18.80 Rocky gulch, course SW.; asc. 91 ft. over NW. slope.

30.10 Rocky spur, slopes W.; desc. 284 ft. over S. slope.

39.67 Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground to bedrock, with a stone mkd. +, deposited at base, in a mound of stone, 3 ft. base, 2 ft. high, for  $\frac{1}{4}$  sec. cor. of secs. 1 and 2, with brass cap marked

4  
S2 | S1  
1934

No other suitable accessory.

Descend 24 ft. over S. slope.

41.10 Bottom of gulch, 10 lks. wide, course W.; asc. 192 ft. over N. slope.

55.20 Ridge, brs. E. and W.; desc. 269 ft. over S. slope.

73.50 Spur, slopes SW.; thence over SE. slope, desc. 156 ft.

79.67 The cor. of secs. 1, 2, 11 and 12.

Land, mountainous.  
Soil, rocky; 4th rate.  
Timber, scattering pinyon and juniper.  
Undergrowth, oak.

## FINAL TEST OF INSTRUMENT

For final test of instrument, see preliminary test of instrument, for T. 19 S., R. 31 E., of same group.

## GENERAL DESCRIPTION

Fractional T. 4 S., R. 28 E., is situated a few miles west of Morenci, Arizona, and may be reached by a road leading from that place into section 26. Another branch from this road, also leads into section 12.

The land surface is very rough, being broken by numerous ridges and gulches. The general elevation is about five thousand feet. The soil is a coarse gravelly loam, resting on a granite bed. There is but little timber, a very scattering growth of pinyon and juniper on the hills and ridges and some oak and sycamore in the gulch bottoms.

There are three permanent springs in that portion of the

## GENERAL DESCRIPTION

BOOK 4026

township covered by this survey. One in the SE.  $\frac{1}{4}$  of the NE.  $\frac{1}{4}$  of sec. 28; one in the NE.  $\frac{1}{4}$  of the NW.  $\frac{1}{4}$  of sec. 28, and one in the SE.  $\frac{1}{4}$  of the SE.  $\frac{1}{4}$  of sec. 17.

At one time there was considerable mining being carried on in sections 1, 12, and 13, but at the present time, stockraising is the only industry being carried on in the township.

4-680  
(August, 1926)

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**FIELD ASSISTANTS.**

NAMES.	CAPACITY.
McMillan Pollock	1st Chainman
Howard W. Blout	2nd Chainman
Cecil K. Crumby	Flagman
Clarence P. Schlansky	Cornerman
James W. Nugent	Axeman

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## CERTIFICATE OF UNITED STATES SURVEYOR

I, Charles E. Hunter, U. S. ~~Surveyor~~ <sup>Transitman</sup>, hereby certify upon honor that, in pursuance of special instructions received from the District Cadastral Engineer for Arizona bearing date of the 17th day of July, 19 33, 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 these parts and portions of~~ a portion of the south boundary, resurveyed a portion of the west boundary and resurveyed and surveyed a portion of the subdivisions of Township 4 South, Range 28 East, of the Gila and Salt River Meridian, in the State of Arizona, which are represented in the foregoing field notes as having been executed by me, and under my direction; and that all the corners of said survey <sup>and resurvey</sup> 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 Arizona and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey. and resurvey.  
Glendale, California,  
October 1, 1934.

*Charles E. Hunter*

U. S. Transitman

## APPROVAL

OFFICE OF U. S. SUPERVISOR OF SURVEYS,

Denver, Colorado, Feb. 4, 1935

The foregoing field notes of the survey of a portion of the south boundary, resurvey of a portion of the west boundary and resurvey and survey of a portion of the subdivisional lines in Township 4 South, Range 28 East, of the Gila and Salt River Meridian, in the State of Arizona,

executed by Charles E. Hunter, U. S. Transitman,

under his special instructions dated July 17, 1933, 19    , having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys <sup>and resurveys</sup> they describe, are hereby approved.

*Quentin J. Brown*

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