

Original

4-679
(April 1933)

Book D

BOOK 4321

FIELD NOTES

of the

Dependent Resurvey of a Portion of the Subdivision

of

Township 16 North, Range 3 East

and

Survey of the Boundaries of the Tuzigoot National Monument.

Of the Gila and Salt River Meridian,

In the State of ARIZONA

EXECUTED BY

Raymond F. Moss, Public Land Surveyor.

General Land Office

Under special instructions dated April 11, 1940, which provided
for the surveys included under Group No. 228, bearing the approval of the
Commissioner of the General Land Office under date of June 25, 1940
and assignment instructions dated May 21, 1940.

Survey commenced June 26, 1940

Survey completed July 11, 1940

4321

1A

BOOK 4321

INDEX DIAGRAM.

Township 16 North, Range 3 East, G. & S.R.M.

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Boundaries of Tuzigoot National Monument ---Pages 12-14.

T.16 N., R.3 E.

The resurveys and surveys herein described were executed with Gurley transit No. 371537, equipped with an improved Smith solar attachment. The instrument was in good condition and having been placed in satisfactory adjustment prior to the beginning of the surveys and tested and found free from appreciable error was approved by the district cadastral engineer on May 21, 1940 conditional upon satisfactory field tests.

The directions of the lines were determined by the solar transit method. The measurements were made with a Dietzgen 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 and the vertical angles ascertained with a clinometer in good adjustment; the horizontal equivalents are entered in the field note record.

July 3, 1940, at a point near A. P. No. 1 on the Tuzigoot National Monument boundary in sec. 21, T. 16 N., R. 3 E., Gila and Salt River Meridian, Arizona, in latitude $34^{\circ} 46' N.$, and longitude $112^{\circ} 02' 40'' W.$, at 7h 19m a.m. l.m.t. or 7h 47m a.m. by my watch which reads correct 105th meridional time as checked with Western Union Telegraph Co. clock, make an hour angle observation on Polaris west of the meridian, making four observations, two each with the telescope in direct and reversed positions, reading the horizontal deflection angles from a flag set at the cor. of secs. 20, 21; 28 and 29 south-westerly of the station, right to Polaris.

Mean watch time of observation	7h 47m 00s
Watch fast of l.m.t.	0h 28m 00s

Mean horizontal angle from Polaris left to reference point	$119^{\circ} 51' 24''$
Azimuth of Polaris	$0^{\circ} 07' 18''$

True bearing of reference point $S.60^{\circ} 01' 18'' W.$

July 3, 1940; at station above described, with Gurley transit No. 371537, every 30 minutes from 8 to 10:30 a.m. and from 1:30 to 4 p.m., make the proper settings on the arcs of the solar attachment and ascertain that the resulting orientation of the instrument when compared with the meridian established by Polaris observation, has a maximum error of less than $1' 30''$.

I repeat the tests of the arcs daily by noon observations and verify the meridional indications at frequent intervals throughout the survey.

Preliminary to the resurvey the lines of the original survey are retraced and diligent search is made for all original corners. Identified corners of the original survey are reestablished in their original positions. All lost corners are reestablished at proportionate positions based on the record of the original survey. The retrace-ment data are thoroughly verified and only the true line notes are given here.

Resurvey of Portion of the Subdivision of T. 16 N., R. 3 E.

Chains

Reestablishment of a survey executed by C. B. Foster, Deputy Surveyor, in 1877 and resurveyed in part by J. B. Wright, Deputy Surveyor, in 1907.

The original corner of secs. 22, 23, 26 and 27 is evidenced by a limestone, 18x16x4 ins., lying on top of ground, the markings on which have been obliterated, witnessed by a scattered mound of stone N.

Set an iron post, 3 ft. long, 2 1/2 in. diam., 8 ins. in the ground to bedrock, with the orig. cor. stone buried alongside, and in a mound of stone to top, at the cor. of secs. 22, 23, 26 and 27, with brass cap mkd.

T16N R3E	
S22	S23
S27	S26
1940	

from which

Original bearing tree:

Fragment of an old cedar stump, bears N. 70° W., 25 lks. dist. No markings found on stump.

Thence

N. 1° 32' W., bet. secs. 22 and 23.

Over rolling land, through scattering timber and undergrowth; asc. 30 ft. over a SE. slope.

11.80 Top of ascent; desc. 14 ft. over a NE. slope.

13.60 Ravine, course SE.; asc. 51 ft. over a SW. slope.

18.40 Point of a spur, slopes SE.; desc. 25 ft. over a NE. slope.

22.00 Ravine, course SE.; asc. 166 ft. over a SE. slope.

40.10 Proportional distance

Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground at the 1/4 sec. cor., with brass cap mkd.

S22	S23
-----	-----

1940

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

No bearing trees available.

Ascend 9 ft. over a SE. slope.

41.00 Long spur, slopes S. 20° W., continue ascent along a W. slope.

46.80 Old, dim road, bears NE. and SW.

50.85 Fence, bears S. 71° 50' W. and N. 71° 50' E.

51.00 Spur, slopes S. 70° W.; desc. 69 ft. over a NW. slope.

57.60 Ravine, course SW.; asc. 41 ft. over a SE. slope.

Resurvey of Portion of the Subdivision of T. 16 N., R. 3 E.

Chains	
61.30	Spur, slopes SW.; asc. 40 ft. along a W. slope.
65.50	Dim road, bears NW. and SE.
71.00	Spur, slopes S. 60° W.; desc. 12 ft. over a NW. slope.
78.00	Head of a ravine, course W.; asc. over a gradual S. slope.
80.20	At this point, determined by the method of double proportional measurement
	Set an iron post, 3 ft. long, 2 ins. diam., 10 ins. in the ground, to bedrock, with a stone marked + deposited at the base, and in a mound of stone to top, at the cor. of secs. 14, 15, 22 and 23, with brass cap mkd.
	T16N R3E S15 S14 S22 S23 1940
	raise a mound
	of stone, 3 ft. base, 2 ft. high, W. of cor.
	No bearing trees available.
	Land, mountainous.
	Soil, gravelly, 3rd rate; rocky, 4th rate.
	Timber, juniper, mesquite and paloverde; undergrowth, sangre de cristo, mesquite and greasewood.

	From the cor. of secs. 14, 15, 22 and 23, the cor. of secs. 13, 18, 19 and 24 on the E. bdy. of the Tp., bears N. 89° 36' E., 159.93 chs. dist., an iron post, 3 ins. diam., set, marked and witnessed as described in the official record.
	From the same corner, the $\frac{1}{4}$ sec. cor. of secs. 10 and 11, bears N. 0° 03' W., 120.27 chs. dist., a granite stone, 14x14 ins., 4 ins. above ground, no markings found on stone, witnessed by a mound of stone, W. of cor.

	From the cor. of secs. 22, 23, 26 and 27.
	S. 89° 50' W., bet. secs. 22 and 27.
	Over rolling land, through scattering timber and undergrowth.
	Ascend 59 ft. over a SE. slope.
5.70	Point of a spur, slopes S.; desc. 59 ft. over a W. slope.
12.00	Ravine, course S. 20° E.; asc. 32 ft. over an E. slope.
13.70	Short spur, slopes S. 30° E.; desc. 12 ft. over a SW. slope.
16.35	Ravine, course S.; asc. 25 ft. over an E. slope.
18.70	Top of a broad, flat spur, slopes S.; desc. 21 ft. over a gradual SW. slope.
24.75	Dim road, bears N. and S.
30.70	Center of swail, drains S; asc. 13 ft. over a NE. slope.

Resurvey of Portion of the Subdivision of T. 16 N., R. 3 E.

Chains

- 35.70 Low spur, slopes S. 30° E.; desc. over a gradual SW. slope.
- 40.03 The 1/4 sec. cor., as evidenced by a limestone, 10x10 ins., 6 ins. above ground, marked 1/4 on S. face, with a 4 ft. section of 3 in. boiler flue, set alongside and supported in a mound of stone.

Set an iron post, 3 ft. long, 1 in. diam., 14 ins. in the ground, to bedrock, with the original cor. stone buried alongside, and in a mound of stone to top at the 1/4 sec. cor. with brass cap mkd.

S22	1/4
S27	1940

No bearing trees available.
S. 89° 20' W., bet. secs. 22 and 27.
Over gently rolling land, through scattering timber and undergrowth.
Descend 92 ft. over a W. slope.
- 0.02 Barbed wire fence, bears N. 0° 45' E. and S. 1° 50' W.
- 19.00 Edge of bluff, bears N. and S.; desc. 30 ft. over almost vertical cut bank.

- 19.45 Irrigation ditch, 10 links wide, course S.
- 20.25 Left bank of Verde River, bears N. and S.
- 22.85 Right bank of Verde River, bears N. and S.; thence across river bottom land.
- 23.95 Barbed wire fence, bears N. 15° E. and S. 15° W.; enter cultivated land.
- 39.94 Barbed wire fence, bears N. and S.

- 40.55 At this point determined by the method of double proportional measurement

Set an iron post, 3 ft. long, 2 ins. diam., 18 ins. below the surface of the ground, at the cor. of secs. 21, 22, 27 and 28, with brass cap mkd.

T16N R3E	
S21	S22
S28	S27
1940	

from which

A corner post, from which fences extend easterly, westerly and southerly, bears N. 44 1/2° E., 87 lks. dist.

The NE. cor. of a cement block house, bears S. 81° 40' W., 7.93 chs. dist.

The head of a nail, in the NE. face of a mulberry tree, bears N. 46 1/2° W., 2.73 chs. dist.

An iron stake, driven flush with the ground, bears N. 48° W., 1.21 chs. dist.

Resurvey of Portion of the Subdivision of T. 16 N., R. 3 E.

Chains

Land, rolling and mountainous.
Soil, alluvial silt and loam, 1st rate; gravelly, 3rd rate; rocky, 4th rate.
Timber, mesquite, cottonwood and juniper; undergrowth; greasewood, willow, sangre de cristo and mesquite.

From the cor. of secs. 21, 22, 27 and 28, the cor. of secs. 27, 28, 33 and 34, bears S. 1° 00' W., 80.97 chs. dist., a granite stone, 10x8x8 ins., set 12 ins. below the surface of the road pavement. No markings found on stone. This cor. is in good agreement with the section lines and the property lines of adjacent lots in a subdivision in the town of Cottonwood.

Set an iron pipe, 1 in. diam., on top of orig. cor. stone, and flush with the surface of the road pavement, from which

An iron pipe, set in the curb, bears N. 44½° E., 50 lks. dist.

An iron pipe, set in the curb, bears S. 33° 39' E., 62 lks. dist.

NE. corner of a cement block store building, bears S. 23° 56' W., 1:49 chs. dist.

Center of valve wheel on fire hydrant, bears N. 34° 55' W., 80 lks. dist.

Traffic button, bears N. 78° 40' W., 6 lks. dist.

From the cor. of secs. 21, 22, 27 and 28.

N. 1° 09' W., bet. secs. 21 and 22.

Over level cultivated field.

17.00 Leave cultivated field.

18.90 Irrigation ditch, course S. 15° W.

20.00 Irrigation ditch, course E.

22.40 Irrigation ditch, course S. 30° E.

24.20 Right bank of Verde River, bears E. and W.

25.80 Left bank of Verde River, bears E. and W.

33.00 Fence, bears E. and W.

38.62 Top of hill; desc. 6 ft. over a NW. slope.

40.48 Proportional distance

Set an iron post, 3 ft. long, 1 in. diam., 14 ins. in the ground to bedrock, with a stone marked + deposited at the base, and in a mound of stone to top, at ¼ sec. cor., with brass cap mkd.

S21 | S22

1940

Resurvey of Portion of the Subdivision of T. 16 N., R. 3 E.

Chains	Descend over a gradual NW. slope.								
46.90	Road, bears NW. and SE.								
55.30	Drain, course NE.; thence over rolling land.								
76.80	Fence, bears E. and W.								
79.20	Fence, bears N. 60° W. and S. 60° E.								
80.96	At this point, determined by the method of double proportional measurement								
	Set an iron post, 3 ft. long, 2 ins. diam., 12 ins. below the surface of the ground, at the cor. of secs. 15, 16, 21 and 22, with brass cap mkd.								
	<table border="0"> <tr> <td>T16N R3E</td> <td></td> </tr> <tr> <td>S16</td> <td>S15</td> </tr> <tr> <td>S21</td> <td>S22</td> </tr> <tr> <td colspan="2" style="text-align: center;">1940</td> </tr> </table>	T16N R3E		S16	S15	S21	S22	1940	
T16N R3E									
S16	S15								
S21	S22								
1940									
	from which								
	A cottonwood, 24 ins. diam., bears S. 3¼° E., 204 lks. dist., mkd. T 16 N R 3 E S 22 B T.								
	A cottonwood, 30 ins. diam., bears N. 78¼° W., 256 lks. dist., mkd. T 16 N R 3 E S 16 B T.								
	A corner post, from which fences extend N. 57½° W. and N. 34¼° E., bears S. 27° E., 140 lks. dist.								
	Land, rolling.								
	Soil, gravelly, 3rd rate; rocky, 4th rate on slopes; sandy loam, 1st rate in cultivated fields.								
	Timber, a few cottonwoods; undergrowth, native brush.								

	From the cor. of secs. 15, 16, 21 and 22, the ¼ sec. cor. of secs. 15 and 16, bears N. 0° 46' E., 40.48 chs. dist., a limestone, 18x10x6 ins., set in a mound of stone, mkd. ¼ on W. face.								

	From the cor. of secs. 14, 15, 22 and 23.								
	N. 89° 53' W.; bet. secs. 15 and 22.								
	Over mountainous land, through scattering timber and undergrowth; asc. 12 ft. over a SE. slope.								
10.45	Spur, slopes S. 60° W.; desc. 262 ft. over a NW. slope.								
25.05	Deep ravine, course SW.; asc. 182 ft. over a SE. slope.								
33.35	Top of ascent, bears NE. and SW.; thence over rolling land; descend gradually.								
40:05	Proportional distance								
	Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground at ¼ sec. cor., with brass cap mkd.								
	<table border="0"> <tr> <td></td> <td>S15</td> </tr> <tr> <td>¼</td> <td>-----</td> </tr> <tr> <td></td> <td>S22</td> </tr> <tr> <td></td> <td>1940</td> </tr> </table>		S15	¼	-----		S22		1940
	S15								
¼	-----								
	S22								
	1940								

Resurvey of Portion of the Subdivision of T. 16 N., R. 3 E.

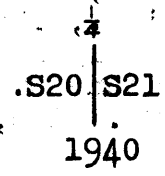
Chains	
	raise a mound of stone, 3 ft. base, 3 ft. high, N. of cor.
40.70	Edge of bluff, bears N. 15° W. and S. 15° E.; desc. 272 ft. over a precipitous SW. slope.
48.90	East edge of swamp, bears N. and S.
52.90	A ditch at the W. edge of swamp, course S. 15° E.
65.10	Point of a spur, slopes N.
70.10	A fence corner, from which fences extend southeasterly and westerly, bears S., 3.50 chs. dist.
74.18	Fence, bears N. 8½° E. and S. 8½° W., 4.50 chs. dist. to a fence cor., from which fences extend easterly, westerly and N. 8½° E. Enter cultivated land.
78.36	Fence, bears N. 34¾° E. and S. 34¾° W.
80.10	The cor. of secs. 15, 16, 21 and 22.
	Land, level and mountainous. Soil, sandy loam, 1st rate in cultivated areas; rocky, 4th rate on mountainous land. Timber, none; undergrowth, native brush.

	From the cor. of secs. 21, 22, 27 and 28. N. 87° 21' W., bet. secs. 21 and 28. Across cultivated land.
2.65	Fence, leave cultivated land.
5.55	Irrigation ditch, course S.
7.05	Irrigation ditch, course S. 30° W.
7.75	Road, bears S. 30° W., and N. 30° E.; leave flat; ascend 133 ft. over a SE. slope.
13.40	Spur, slopes S.; desc. 33 ft. over a W. slope.
16.80	Ravine, course S.; asc. 35 ft. over a SE. slope.
21.90	Spur, slopes S. 30° E.; desc. 27 ft. over a SW. slope.
27.60	Center of A. T. and Santa Fe R. R. track, bears N. 23½° W. and S. 23½° E.
32.00	Head of ravine, course SE.; asc. 65 ft. over a SE. slope.
40.54	The ¼ sec. cor., as evidenced by a stone, 18x18x10 ins., set in a mound of stone, marked ¼ on N. face. Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, with the orig. cor. stone buried alongside at ¼ sec. cor., with brass cap mkd.
	S21 ----- ¼ S28 1940
	raise a mound of stone, 3 ft. base, 3 ft. high, N. of cor.

Resurvey of Portion of the Subdivision of T. 16 N., R. 3 E.

Chains	Thence
	S. 89° 42' W., bet. secs. 21 and 28.
	Ascend 32 ft. over a SE. slope.
7.75	Short spur, slopes S. 20° E.; desc. 14 ft. over a SW. slope.
14.68	Telephone line, bears NW. and SE.; head of a ravine, course SE.; asc. 55 ft. over a SE. slope.
16.15	Paved highway, bears N. 60° W. and S. 60° E.
25.40	Spur, slopes N. 80° E.; desc. 37 ft. over a NW. slope.
36.10	Head of a ravine, course N. 30° E.; asc. 69 ft. over a NW. slope.
40.28	The cor. of secs. 20, 21, 28 and 29, as evidenced by a limestone, 24x10x6 ins., firmly set, marked 2 grooves on S. and 4 grooves on E. faces. An iron pipe, 3 ins. diam. 14 ins. above ground is set alongside of orig. cor. stone.
	Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the ground, with the orig. cor. stone buried alongside at the cor. of secs. 20, 21, 28 and 29, with brass cap mkd.
T16N R3E	
S20 S21	
S29 S28	
1940	
	raise a mound of stone, 3 ft. base, 3 ft. high, W. of cor.
	Land, level and rolling.
	Soil, in cultivated area, sandy loam, 1st rate; remainder, rocky, 3rd rate.
	Timber, none; undergrowth, native brush.
	N. 10° 04' W.; bet. secs. 20 and 21.
	Over heavily rolling land, through scattering undergrowth.
	Descend 145 ft. over a NW. slope.
13.15	Ravine, course N. 30° E.; asc. a gradual SE. slope.
15.50	Paved highway, bears S. 46½° E. and N. 46½° W.
20.56	Telephone line, bears N. 51½° W. and S. 51½° E.
23.05	Short spur, slopes N. 50° E.; desc. 218 ft. over a broken NE. slope.
28.35	Ravine, course N. 30° E.
37.84	Center of S. track of four of the A. T. and Santa Fe R.R. bears N. 38° 02' W. and S. 38° 02' E.
38.74	Center of N. track of four of the A. T. and Santa Fe R.R., bears N. 38° 02' W. and S. 38° 02' E.
40.16	The ¼ sec. cor., as evidenced by a volcanic stone, 14x12x8 ins., set in a small mound of stone, mkd. ¼ on W. face. An iron pipe, 3 ins. diam., 18 ins. above ground, set alongside orig. cor. stone.

Resurvey of Portion of the Subdivision of T. 16 N., R. 3 E.

Chains	
	<p>Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, with the orig. cor. stone buried alongside at $\frac{1}{4}$ sec. cor., with brass cap mkd.</p> <p style="text-align: center;">  </p>
	<p>-----raise a mound of stone, 3 ft. base, 3 ft. high, W. of cor.</p> <p>Thence</p> <p>N. $0^{\circ} 54'$ W., bet. secs. 20 and 21.</p> <p>Over rolling land; desc. 38 ft. over a NW. slope.</p>
4.50	Wash, course NE.
5.00	Power line, bears N. $53\frac{1}{2}^{\circ}$ E. and S. $53\frac{1}{2}^{\circ}$ W.
7.70	Power line, bears N. $53\frac{1}{2}^{\circ}$ E. and S. $53\frac{1}{2}^{\circ}$ W.
14.46	Road at the SW. end of bridge over the Verde River, bears SW. and NE. to Tuzigoot National Monument.
15.50	Right bank of Verde River, bears S. 10° E. and N. 10° W.
21.50	Left bank of Verde River, bears SE. and NW.; asc. 70 ft. over a bluff.
25.96	Top of bluff, bears S. 30° E. and N. 30° W.; continue over rolling land.
27.80	Barbed wire fence, bears N. $30\frac{1}{4}^{\circ}$ W. and S. $30\frac{1}{4}^{\circ}$ E.
30.00	Junction of roads, from N. 37° W., S. $36\frac{1}{2}^{\circ}$ E. and N. $0^{\circ} 54'$ W.; thence along road.
31.57	Power line, bears N. $23^{\circ} 25'$ W. and S. $23^{\circ} 25'$ E.
34.81	Power line, bears N. $24^{\circ} 06'$ W. and S. $24^{\circ} 06'$ E.; the corner of a high board fence, bears N. 81° E., 37 lks. dist., from which fences extend S. 70° E. about 4 chs. dist. and northerly; the NW. cor. of a large stucco house, bears N. $30^{\circ} 05'$ E.
38.65	The corner of high board fence, bears S. 70° E., 33 lks. dist., from which fences extend S. 70° E. and southerly; The NW. corner of a large stucco house, bears S. $65\frac{1}{4}^{\circ}$ E.
41.26	The point for the cor. of secs. 16, 17, 20 and 21, determined by the method of double proportional measurement, falls in the center of a road on a limestone ledge, where it is impossible to set an iron post or stone below the surface.
	<p>For witness corner, see the field notes of the line bet. secs. 16 and 21.</p> <p>Land, level and rolling.</p> <p>Soil, rocky, 4th rate on the slopes; elsewhere, sandy, 2nd rate.</p> <p>Timber, none; undergrowth, native brush.</p>
	<p>-----</p> <p>From the cor. of secs. 16, 17, 20 and 21, the $\frac{1}{4}$ sec. cor. of secs. 8 and 9, bears N. $0^{\circ} 12'$ W., 128.98 chs. dist.,</p>

Resurvey of Portion of the Subdivision of T. 16 N., R. 3 E.

Chains

- a limestone, .12x12x8 ins. marked $\frac{1}{4}$, lying on top of a mound of stone which supports an iron stake.
- From the same cor., the $\frac{1}{4}$ sec. cor. of secs. 18 and 19, bears S. $88^{\circ} 05' W.$, 120.06 chs. dist., a limestone, 14x12x8 ins., firmly set, marked $\frac{1}{4}$ on N. face, with a small mound of stone N. of cor. Rebuild mound of stone, 3 ft. base, $2\frac{1}{2}$ ft. high, N. of cor.
-
- From the cor. of secs. 15, 16, 21 and 22.
- N. $88^{\circ} 30' W.$, bet. secs. 16 and 21.
- Over cultivated land.
- 1.52 Barbed wire fence, bears N. $57\frac{1}{2}^{\circ} W.$ and S. $57\frac{1}{2}^{\circ} E.$; leave cultivated land.
- 3.12 Irrigation ditch, course S. $60^{\circ} E.$; asc. 26 ft. over a NE. slope.
- 11.62 Barbed wire fence, bears N. $53^{\circ} W.$ and S. $53^{\circ} E.$
- 19.58 Low spur, slopes NW.
- 22.80 Ravine, course N.; asc. 24 ft.
- 23.78 Power line, bears N. $62^{\circ} E.$ and S. $62^{\circ} W.$
- 39.94 Proportional distance
- Set an iron post, 3 ft. long, .1 in. diam., 28 ins. in the ground at $\frac{1}{4}$ sec. cor., with brass cap mkd.
- S16
- $\frac{1}{4}$ -----
- S21
- 1940
- raise a mound of stone, 3 ft. base, 3 ft. high, N. of cor.
- Ascend 14 ft. over an E. slope.
- 42.28 Improved road, bears NE. and SW.
- 48.18 Unimproved road, bears N. $60^{\circ} W.$ and S. $60^{\circ} E.$
- 51.00 Top of ascent; desc. 93 ft. over a rolling SW. slope.
- 53.98 Power line, bears NW. and SE.
- 54.88 Woven wire fence, bears NW. and SE; enter Verde Golf Links.
- 55.08 Canal, 10 lks. wide, course SE.
- 66.54 East edge of Peck's Lake, bears S. $30^{\circ} E.$ and N. $30^{\circ} W.$
- 69.84 West edge of Peck's Lake; asc. 71 ft. over a rolling NE. slope.
- 78.83 Woven wire fence, bears N. $16^{\circ} 20' E.$; leave Verde Golf Links.
- 79.38 Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the ground, at witness corner of secs. 16, 17, 20 and 21, with brass cap mkd.

Resurvey of Portion of the Subdivision of T. 16 N., R. 3 E.

Chains

	T16N	R3E
	S17	S16
WC	S20	S21
	1940	

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

79.88 The cor. of secs. 16, 17, 20 and 21.

Land, rolling and level.
 Soil, cultivated land, sandy loam, 1st rate; on slopes, rocky, 4th rate.
 Timber, none; undergrowth, native brush.

Survey of Boundary Lines of the Tuzigoot National Monument.

Chains

Corner No. 1 of the Tuzigoot National Monument is evidenced by a wooden hub, 2 ins. sq., with nail in top, set flush with ground.

Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the ground, at cor. No. 1 of the Tuzigoot National Monument, with brass cap mkd.

T16N / AP1
R3E / TNM
S21

1940

from which

The $\frac{1}{4}$ sec. cor. of secs. 21 and 22, bears S. 23° 54' E., 10.34 chs. dist.

The NE. corner of the museum building, bears S. 81° 48' E.

The SW. corner of the museum building, bears S. 69° 53' E.

Raise a mound of stone, 2 ft. base, 2 ft. high, E. of cor.

Thence

N. 26° 55' E., along the NW. boundary line of the Tuzigoot National Monument.

3.03 Road, bears NW. and SE.

8.50 Intersect line bet. secs. 21 and 22 at a point from which The $\frac{1}{4}$ sec. cor. of secs. 21 and 22, bears S. 1° 09' E., 17.03 chs. dist.

22.79 Ravine, course N.

29.55 Corner No. 2 of the Tuzigoot National Monument, as evidenced by a wooden hub, 2 ins. square, set flush with the ground.

Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the ground, at cor. No. 2 of the Tuzigoot National Monument, with brass cap mkd.

T16N R3E

S22

AP2

TNM

1940

from which

The NE. cor. of the museum building, bears S. 10° 11' W.

The SW. cor. of the museum building, bears S. 11° 30' W.

Raise a mound of stone, 2 ft. base, 2 ft. high, SE. of cor.

Thence

S. 63° 05' E., along the NE. boundary line of the Tuzigoot National Monument.

Survey of Boundary Lines of the Tuzigoot National Monument.

Chains

1.30 Spur, slopes N. 30° E.

9.00 Corner No. 3 of the Tuzigoot National Monument, as evidenced by a wooden hub, 2 ins. square, set flush with the ground.

Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the ground, at cor. No. 3 of the Tuzigoot National Monument, with brass cap mkd.

T16N
AP3 R3E
TNM S22

1940

raise a mound
of stone, 2 ft. base, 2 ft. high, SW. of cor.

Thence

S. 19° 56' W., along the SE. boundary line of the Tuzigoot National Monument.

5.27 Fence, bears SE. and NW.

45.10 Corner No. 4 of the Tuzigoot National Monument, as evidenced by a wooden hub, 2 ins. square, set flush with the ground.

Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the ground, at cor. No. 4 of the Tuzigoot National Monument, with brass cap mkd.

TNM
AP4 S22

T16N R3E

1940

raise a mound
of stone, 2 ft. base, 2 ft. high, NW. of cor.

Thence

West, along the S. boundary line of the Tuzigoot National Monument.

0.04 Fence, bears S. 19° W. and N. 19° E.

1.06 Corner No. 5 of the Tuzigoot National Monument, as evidenced by a wooden hub, 2 ins. square, set flush with the ground.

Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the ground, at cor. No. 5 of the Tuzigoot National Monument, with brass cap mkd.

TNM
S22 AP5

T16N R3E

1940

raise a mound
of stone, 2 ft. base, 2 ft. high, NE. of cor.

Thence

N. 13° 52' W., along the SW. boundary line of the Tuzigoot National Monument.

Survey of Boundary Lines of the Tuzigoot National Monument.

Chains

- 2.58 Intersect the line bet. secs. 21 and 22, at a point from which the $\frac{1}{4}$ sec. cor. of secs. 21 and 22, bears N. $1^{\circ} 09' W.$, 8.18 chs. dist.
- 3.74 Fence, bears S. $60^{\circ} E.$ and N. $60^{\circ} W.$
- 7.40 Fence, bears NW. and SE.
- 12.60 Fence, bears E. and W.
- 20.74 Corner No. 1 of the Tuzigoot National Monument and the place of beginning.

Final Test of Solar Attachment.

July 11, 1940, on the meridian established by Polaris observation on July 3, 1940.

At 9h 00m a.m. app. t., set off $34^{\circ} 36' N.$ on the latitude arc, $22^{\circ} 04' 30'' N.$ on the declination arc and determine a meridian with the solar which agrees with the true meridian.

At apparent noon, with the latitude arc unchanged, observe the sun on the meridian; the resultant reading of the declination arc is $22^{\circ} 03' 30'' N.$, which agrees with the computed declination of the sun.

At 3h 00m, p.m., app. t., with the latitude arc unchanged, set off $22^{\circ} 02' 30'' N.$ on the declination arc and determine a meridian with the solar, which agrees with the true meridian.

As all of the observations taken within the usual hours of solar work agree within $1' 30''$ of the true meridian, conclude that the adjustments of the instrument have been maintained during the surveys described in the foregoing notes.

General Description

Sections 21 and 22, T. 16 N., R. 3 E. are located in the Prescott National Forest. The general elevation is about 3400 ft. above sea level. The drainage is furnished by the Verde River, which courses easterly through the southerly portion of section 21 and leaves section 22 near the southwest corner.

The soil in the Verde River valley is of sandy loam, 1st rate and in the rolling portion of the sections, gravelly, 3rd rate, and rocky, 4th rate.

The southern part of Pecks Lake and the Verde Golf Links are located in the NW. $\frac{1}{4}$ of section 21.

A paved highway, a telephone line and the tracks of the A. T. and Santa Fe R. R. run through the SW. $\frac{1}{4}$ of sec. 21. A road from the Tuzigoot National Monument to the paved highway runs through the north part of section 21, crossing the Verde River about 15 chains northerly from the $\frac{1}{4}$ sec. cor. of secs. 20 and 21.

A sparse growth of mesquite and paloverde trees cover

the rolling portion of the sections with a few cottonwood trees in the Verde River valley, There is very little undergrowth within the area.

The Tuzigoot National Monument, consisting of ancient rock dwellings and administered by the National Park Service, lies partly in sections 21 and 22, and is situated on a knoll on the north side of the Verde River.

CERTIFICATE OF SURVEYOR

I, Raymond F. Moss, Assistant Cadastral Engineer

HEREBY CERTIFY upon honor that, in

pursuance of special instructions bearing date of the 11th day of April, 1940,

received from the district cadastral engineer for Arizona, with assignment

instructions dated May 21, 1940, I have ^{re}surveyed a portion of the Subdivision,

and surveyed the boundaries of the Tuzigoot National Monument in

Township 16 North, Range 3 East

of the Gila & 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 said

resurvey and survey has been made in strict conformity with said instructions, the Manual of Instructions for the Survey

of the Public Lands of the United States, and in the specific manner described in the foregoing field notes.

Phoenix, Arizona

January 31, 1942.

Raymond F. Moss

Assistant Cadastral Engineer
(formerly Public Land Surveyor)

CERTIFICATE OF APPROVAL

OFFICE OF SUPERVISOR OF SURVEYS,

Denver, Colo., June 13, 1945.

The foregoing field notes of the ^{re}survey of a portion of the Subdivision and survey

of the boundaries of the Tuzigoot National Monument, in Township 16

North, Range 3 East of the Gila and Salt River, in the State of

Arizona

executed by Raymond F. Moss, Public Land Surveyor,

under special instructions dated April 11, 1940, and assignment

instructions dated May 21, 1940, having been critically examined, and

the necessary corrections made prior to their certification by the engineer, the said field notes, and the survey

and resurvey therein described, are hereby approved.

[Signature]
Supervisor of Surveys.

CERTIFICATE OF TRANSCRIPT

~~I certify that the foregoing transcript of the field notes of the above described surveys in~~

~~is a true copy of the original field notes on file in the public survey office.~~

Supervisor of Surveys.