· .	3594.		
	Book "A" 4-679	BOCK 3594	0
	PETRIFIED FOREST NATIO	DNAL MONUMENT.	
	FIELD NO	TFS	
	OF THE SURVEY OF		
Fourth Standard Pa		t of Range 23 East, and	of
Part of Subdivisio	on Lines of Township 16	6 North, Range 23 East,	
	RECONSTRUCTION OF	7 	
Corner of Township	os 14 and 15 North, Rang	ges 23 and 24 East,	
Corner of Township	0 15 and 16 North, Rang	ges 23 and 24 East,	
RECO	NSTRUCTION & REESTABLI	ISHMENT OF	
Certain sec.cors.o	n the S.and E.bdrs.of	T.16 N., R. 23 H.,	
	and SURVEY o	<u>f</u>	
Part of the Subdiv	ision lines of		
TO		23 EAST,	
Of theGi	la and Salt River Base		
n the State of	Arizona.		
	EXECUTED B	 	
	Sidney E. Blout,	<b>9</b>	
	U.S. Cadastral Engi	ineer,	
		uctions dated <u>June 14</u> , ,	
sued by the United St	tates Surveyor General to <u>s</u>	govern surveys included in (	Group
o. 118, Arizona, ., whi	ch were approved by the C	ommissioner of the General	Land
		uctions dated July 2,,	

3594

107

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6-151

Resurvey & Survey commenced July 11, ....., 1921.

3594

Book "A"

GROUP 118~ ARIZONA BOOK 3594

108

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CORS FOUND		
O {CORS. FOUND NO CHANGE MADE.	4	
CORS. FOUND		•
CORS. FOUND       RECONSTRUCTED.		
CORS. MISSING.		
CORS. MISSING. REESTABLISHED BY	PROPE	RTION

X NEW CORS. ESTABLISHED.

# INDEX DIAGRAM.

36 4th S	standard .	Parallel No	rth2	7		///	X////	5//// //5//	X//// <sup>36</sup> /	4
	6	5		15	20	14	12	HA.		9 JI
	16	16	16	16	19/16/		<u> </u>		X <b>6</b> ///	1098
iron post	7	8	. 9 . 9	15	19	14	<b>x</b> y */	14	18	9
iron post	15	15	15	15 16	18/1	18			NT/	
iron (	18	17	16 T. 16 N	15	15 272	14	14	14	13 pogel0	9
			1. 16 IV	<u>-</u> 7.	2. J.L.	•				
	19	20	21	15	22	14	23	14	24	9
			7		•				<u></u>	
	30	29	28	15	27	14	26	14	25	9
					<u>.                                    </u>					
	31	82	88	15	<b>34</b>	14	35	14	36	9
			page 13	<b>.</b>	12 page13	•	12	12	12 poge 10	
		1 	page		pag		pu		pay	

Lines surveyed under this group.

Lines resurveyed under this group.

Lines retraced in search of old corners.

Accepted surveys.



Area embraced within the Petrified Forest National Monument

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pa9"

							юск і <b>35</b>	94	(1B)
	36 4.†/	3/ h Standard	32 1 Parallel·	I	<i>3 34</i> 7-27-21 7-27		35   21 / 27·21 7-	<i>36</i> 27-	<b>.</b>
1		t. 6 /	. ج	4	8-15-21	2		1.2 21	CTABLISHED
	2 7 2 - 5		776 <u>1</u> . 73	7. 2. 6. 2. 6.			1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		REE 2.21
12		7	8,	9	8-15-21	11	12	1	7
		7-21-31	<u>7-31-21</u>		7-21-21 <b>8-13-21</b> 7-21-21	8-13-21	8-13-21		
. 13		18	17	т. 16 N.	,15 R.23E.	14	13	1-3.	18
24			20	21 .	22	23	24	1. 1. 2.	19
25		30	29 1	28	27	26	25	Version A	30
36		31	32	33	34 S	35	36	7-12-23	31
	n an	6	۰۰۰ ج	RECONSTRUCTED RECONSTRUCTED 7	REESTABLISHED	RECONSTRUCTED 2	RECONSTRUCT	En la Sara	6
•		• •		50K "A" 118 - Ariz	TONA		12	12 57-1	- 7
, , ,		Show resur recons	DHTE ving dates of veys, retrace truction, rees	and the second	٠		- 13	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	/8

resurveys, retracements in search of cors., reconstruction, reestablishment and establishment of cors., all by Sidney E. Blout, U.S.Cadastral Engineer.

Surveyed. on dates shown thereon.

Resurveyed on dates shown thereas.

Retracement in search of cors. on dates shown thereon.

Accepted surveys.

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tas of definition

Watch time of observation, mean of four readings -----10h. 25.2m.

- July 10, 1921: I lay off the azimuth of Polaris 1°09.8' to the west, and mark the meridian thus determined by a nail driven in a stake set firmly in the ground 5 chains N.
- July 10,1921: At the same station, I examine the adjustment of the transit and correct the level and collimation errors; then to test the solar apparatus by comparing its indications, resulting from solar observations, made during a.m. and p.m. hours with the true meridian established by Polaris observations, proceed as follows:
- At 7h.00m. a.m. apparent time, July 10, set off  $34^{\circ}47\frac{1}{2}$ 'N. on the lat.arc; 22°17'N. on the decl.arc, and determine a meridium with the solar, and mark a point thereon by a tack driven in the stake already set 5 chains N.; this point falls 0.5122... of the meridian established by the Polaris observation.
- July 10: at the same station, I make a meridian observation of the sun for time and latitude, observing simultaneously the altitude of the sun's lower limb and transit of the sun's west limb, reversing the telescope and observing simultaneously, the altitude of the sun's upper limb and transit of the sun's east limb.

111

Mean observed altitude - - - - - -  $77^{\circ}27'_{J3''}$ Reduced latitude - - - - - - - - -  $34^{\circ}47'_{31''}$ Mean watch time of observation - - 12h.10m.20s.Watch fast of local mean time - 00h.05m.15s.

At 2h.00m.p.m., with the lat.arc unchanged, set off 22° 14'N. on the decl.arc. and determine a meridian with the solar, and mark the meridian thus determined on the stake already set 5 chains N.of station; this mark falls 00.5' W. of the meridian established by the Polaris observation. I continue taking solar observations hourly during the remainder of this day, and from a comparison of the results, find that all of the observations agree within 01' of the meridian established by the Polaris observation; therefore conclude that the adjustment of the instrument is satisfactory.



## ECOX 2594



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BOCK 3594

Resurvey of Fourth Std. Par. North, thru. part of Range 23 East. Chains. Raise a mound of stone 2 ft.base,12 ft.high, S.of cor. Descend 16 ft., over SW.slope, to (Proportional dist.) Set an iron post, 3 ft.long,l in.in in diam.,26 ins.in the ground, for reestablished std.  $\pm$  sec.cor.of sec.35, marked on brass cap, 40.28 ′S⊢C <u>-</u>S 35 1921 Raise a mound of stone, 2 ft.base, 1<sup>1</sup>/<sub>2</sub> ft.high, N. of cor. From this cor., a cross (X) on face of a sand stone boul-der 7x10x7 ft. above ground, brs.N.44°E., 72 lks. dist.; underneath cross (X) chisel the letters BR. A cross (X) on sandstone boulder 8x9x10 ft.above ground brs.N.182°W.,49 lks.dist. Underneath the cross (X) chisel the letters BR. Descend 45 ft., over SW.slope. Wash, 30 lks wide, course S. At 3 chs.N.of this point, foot of bluffs bears NE. and W. 65.60 Ascend 20 ft., over S.slope, to (Proportional dist.) Set an iron post, 3 ft.long, 2 ins. in diam., 24 ins.in the ground, for reestablished std. cor. of secs. 34 and 35, marked on brass cap, 80.55 TI7N R23E ·S34 S35 1921 Raise a mound of stone, 2 ft. base,  $l\frac{1}{2}$  ft.high, N.of cor. Land, E. 20 $\frac{1}{2}$  chs., broken and killy; remainder, nearly level. Soil, adobe clay, 3rd rate, in  $\mathbb{R}$ . 20 $\frac{1}{2}$  chs.; sandy loam, 2nd rate in the remainder. Timber, none. Undergrowth, none. Good growth of bunch grass in W. 60 chs. S.89°59'W.; on a true line, on S. bdy.of sec.34, within the Petrified Forest National Monument. Over nearly level land, devoid of timber and undergrowth. Ascend slightly over S. slope, 3 chs. S. of foot of bluffs, E.and W. bearing National Old Trails road, brs.N.80°W. and S.80°E. Wash,20 lks.wide, course S.20°E. 3.82 Ascend slightly over S.slope. Leave nearly level, and enter broken and hilly land. 19.00 Ascend 46 ft., over SE. slope, to (Proportional dist.) Set an iron post, 3 ft.long,2 ins. in diam.,24 ins. in the ground, for reestablished clos-ing cor.of secs.2 and 3,T.16 N.,R.23 E., marked on. 32.38 brass cap, T17N R23ES 3 S 2 T16N R23E CC 1921 Raise a mound of stone, 2 ft.base, 12 ft.high, S.of cor. Ascend 37 ft., over SE.slope, to (Proportional dist.) Set an iron post, 3 ft.long, 1 in. 40.28 in diam.,26 ins.in the ground, for reestablished standard & sec.cor. of sec.34, marked on brass cap, <u><u>+</u>S 34</u> 1921

EOOK 3594

 <u>. Resurv</u> Chains.	ey of Fourth Std. Parallel North, thru. part of Range 23 Jast 7
	Raise a mound of stone, 2 ft. base, 1 <sup>1</sup> / <sub>2</sub> ft.high,N.of cor. Ascend 50 ft.,over SE.slope,to
51.15	Rim of mesa, bre.NE.and SW. Old road from St.Johns to Holbrook, Arizona, brs.N.70°E. and S.70°W. Leave broken and hilly land, and enter nearly level land on mesa.
61.20	Ascend very gradually over SEcslope. Descend very gradually over SW.slope. Continue over nearly level surface of mesa.
72.90	(Mid-point of North bdy.of sec.3, T.16 N., R.23 Z.) Set an iron post, 3 ft.long, 1 in. in diam., 26 ins.in the ground, for $\pm$ sec.cor. of sec.3, and mon.on the boun- dary of the Petrified Forest "ational Monument, marked on brass cap,
	PFINM
	+S 3 1921
	Dig pits,18x18x12 ins., one each E.and W. of post,3 ft. dist. From this cor., the boundary of the Petrified Forest National Monument extends S.0°34'E. and S.89°59 W.
	Continue line and measurement of the 4th Standard Parallel North, identical with Bdy. of the Petrified Forest Nat- ional Monument.
80.56	Over nearly level land on mesa. Descend slightly over SW. slope,to (Proportional dist.) Set an iron post, 3 ft.long, 2 ins. in diam.,24 ins.in the ground, for reestablished stand- ard cor. of secs. 33 and 34, and mon.on the houndary of the Petrified Forest National Monument,marked on brass cap,
	S C T17N R231 PFNM S33 S34
	1921.
	Dig pits, 18x18x12 ins., one each L.W and N.of post,3 ft.dist. From this cor., the boundary of the Petrified Forest National Monument extends N.1°19"E. and N.89°59 E.
	Land, 1.19 chs. and W.29 <sup>1</sup> / <sub>2</sub> chs. nearly level; remainder, broken and hilly. Soil,sandy and rocky, 2nd and 3rd rate.
	Timber, none. Undergrowth,none. Good growth of crowfoot gramma grass.
	S.89°59'W., on true line, on S.bdy.of sec.33. Over nearly level land on mesa, devoid of timber and under- growth.
4.28	Descend very gradually over SW.slope. Old road from St.Johns to Holbrook, Arizona, brs.N.80°W.and S.80°E.
24.13 32.87	Dim road brs.N.and S. (Proportional dist.) Set an iron post, 3 ft.long, 2 ins.
	in diam., 24 ins.in the ground, for reestablished closing cor.of secs.3 and 4, T.16 N. R.23 E., marked on brass cap,

Chains.	v of Fourth Std.Parallel North, thru. part of Range 23 East.	
	T17N R23E	
	· · · · <u>· · · · · · · · · · · · · · · </u>	-
	S 4 S 3 T16N R231	
•	1921	
	n:	
	Dig pits 18x18x12 ins., one each E.,W. and S. of post 3 ft.dist.	
40.28	Intersect the original standard 7 sec.cor. of sec.33,	
	which is a sandstone, 16x12x5 ins. above ground, firmly set, marked SC 1/2 on N.face, from which the stump of a	
	tree, 12 ins. in dian., burned to the surface of the	
	ground, brs.N.825°W 39 lks.dist. This is evidently	
	the remains of the original bearing tree as the bearing and distance agrees with the record.	
	Alphoside the old stone, set an iron post, 3 ft.long, 1	
	in. in diam., 26 ins. in the ground, for standard 4 sec.cor. of sec.33, marked on rass cap,	
۰ ۲	<u>48'33</u>	
	1921 ·	
	raise a mound of stone, 2 ft.base, $l\frac{1}{2}$ , ft.high, N. of	
	cor. Land, nearly level.	
	Soil, sandy, 2nd rate.	
	Timber, none.	
	Undergrowth, none. Good growth of crowfoot gramma grass.	
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		EOOK 3694
		econstruction and reestablishment of certain cors. on the ange line, between Ranges 23 and 24 E., Ts. 15 and 16 N. 9
7	Chain <b>s</b>	The East boundary of T. 16 N., R. 23 E., was surveyed in 1882, by Henry A. Coe, U.S.D.S., and no retracement or resurvey of said line is of record. The East Boundary of T. 15 N., R. 23 E., was surveyed in 1875 by C. Bur- ton Foster, U.S.D.S., and retraced in 1882 by A. P. Johnson, U.S.D.S. No other retracement or resurvey of said line is of record.
		RE TRACEMEN T.
		From the reestablished closing cor. of Ts. 16 N., Rs. 23 and 24 E., on the 4th Std. Par. N., hereinbefore de- scribed,
	• 483•02	<ul> <li>South on random line, searching diligently at record intervals for the original cors. and setting temp. cors. at such intervals E. of secs. 1 and 12. No trace of any old cor. can be found, until at</li> <li>Fall 5.34 chs. W. of a soft sandstone, 16 x 8 x 8 ins. above ground, firmly set. Diligent search in this vicinity fails to reveal any trace of a wood post, witnessed by pits and one bearing tree, recorded in the notes of the original survey as marking the cor. of Ts. 15 and 16 N., Rs. 23 and 24 E. This stone is marked on four faces, but the marks are so dim that identification of this stone as marking the original Tp. cor. point is very uncertain; therefore, retrace the range line bet. Rs. 23 and 24 E., thru T. 15 N., before accepting this stone as the original cor. of</li> </ul>
•		Ts. 15 and 16 N., Rs. 23 and 24 E. From the above described stone, S. 0° 6' W. (course as per record of retracement of E.Bdy. of T. 15 N., R. 23 E. by A. P. Johnson, U.S.D.S. in 1882) on random line, thru T. 15 N., bet. Rs. 23 and 24 E., searching diligently at record intervals for the old cors. Fail to find strace of any old cor., until at
۲ 	483.67	<ul> <li>Fall 2.68 chs. W. of a cedar post, 4 ins. square, projecting 3 ft. above ground, badly decayed, marked XXXVI on NW. face, from which, a cedar limb, 8 ins. in diam., brs. N.18° E.,55 lks. dist.,marked T XVN RXXIVE SXXXI BT.</li> <li>The record of the establishment of the cor. of Ts. 14 and 15 N., Rs. 23 and 24 E. described the same as a wood</li> </ul>
*	, , , , , , , , , , , , , , , , , , ,	<ul> <li>post, 4 ft. long, 4 ins. square, set 1 ft. in the ground, properly marked and notched, with mound of earth raised around post, and witnessed by four pits, one each N.</li> <li>S. E. and W., and two properly marked bearing trees, a cedar 20 ins. in diam., S. 12° E., 50 lks. dist., and a cedar, 10 ins. in diam., N. 78° W., 89 lks. dist.</li> <li>There is no trace of the above described accessories to the township corner, but I conclude that the post found is the original corner monument and is in its original position. No evidence of its having been moved was found.</li> </ul>
*		Reconstruction of cor.of Ts. 14 & 15 M., Rs.23 & 24 E. Alongside this old wood post, set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground for cor. of Ts. 14 and 15 N., Rs. 23 and 24 E., marked on brass cap T 15 N R 23 E   R 24 E <u>S 36 S 31</u> S 1 S 6
		T 14 N 1921 In addition to the existing bearing tree hereinbefore described, establish bearing trees as follows: A cedar, 10 ins. in diam., brs. S. 30° E., 272 1ks. dist., marked T. 14 N R 24 E S 6 B T. A cedar, 18 ins. in diam., brs. S. 60° W., 190 1ks. dist., marked T 14 N R 23 E S 1 B T. A cedar, 10 ins. in diam., brs. N. 354° W., 380 1ks. dist., marked T 15 N R 23 E S 36 B T.



	$\mathbb{D} \oplus K$	.3594
	econstruction and Reestablishment of certain cors.on the	
Chains.	At a point 80.50 chs.N.0°38'W., from the reestablished cor of secs.7,12,13 and 18, which is proportional to the original distance, reestablish the cor. of secs.1,6, 7 and 12, as follows: Set an iron post, 3 ft.long, 2 ins.in diam., .,24 ins. in the ground, for reestablished cor.of secs.1,6,7 and 12, marked on brass cap,	
	TIGH R23 $\stackrel{\circ}{}$ R24 $\stackrel{\circ}{}$ S12 S 7 1921 Raise 2 mound of store 2 ft base 1 ft bisk 10 of size	
•	<ul> <li>Raise a mound of stone, 2 ft.base, 1<sup>1</sup>/<sub>2</sub> ft. high, W.of cor.</li> <li>From this cor., the reestablished closing cor,of Ts.16</li> <li>N., Rs.23 and 24 E.,on the 4th Std.Par.N., bears N.</li> <li>0°38'W.,80.55 chs.</li> <li>This cor.of secs.1,6,7 and 12, is reestablished as a basis for the reestablishment of the 4 sec.cor.of secs.3 and 10, T.16 N., R.23 E., which is a line monument in the Bdy.of the Petrified Forest Mational Mon-</li> </ul>	
	ument. No other corners on this Range line are required to be reestablished in connection with the survey of the Bdy. of the Petrified Forest National Monyment.	
	• • •	
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BCOK 3594

•		Reconstruction: and Reestablishment of certain
12	corne	rs on the South bdy.of Township 16 North, Range 23 East.
	<b>F F 1</b>	The South Bdy.of T.16 N., R.23 E. was surveyed in 1875 by C. Burton Foster, U.S.D.S., and resurveyed in 1882 by Henry A.Coe, U.S.D.S., who reestablished all corners on the line. No other resurvey or retracement of the line is of record.
·		Retracement.
		From the reconstructed cor.of Ts.15 and 16 N., Rs.23 and 24 E., hereinbefore described, S.89°47'W. (as per record of resurvey in 1882 by H.A.Coe, U.S.D.S.) on random line, bet.Ts.15 and 16 N., R.23 E. Diligent search in this vicinity fails to reveal any trace
	80.45	of the previously reestablished $\frac{1}{4}$ sec.cor. of secs.l and 36. Fall 89 lks.N. of the remains of the previously reestab- lished cor. of secs.l,2, 35 and 36, which consists of a disintegrated sandstone 12x5x4 ins.lying on a mound of stones. The stone is faintly marked, 5 notches be-
		ing visible on one edge of same. No bearing trees. These remains do not agree with the record of the pre- vious reestablishment of said cor., but diligent search in this vicinity fails to reveal any other cor- ner monument or accessories; therefore, accept the mound of stones, as marking the true point for sec.cor.
•		The true course and distance of the Tp.line, bet. secs.l and 36, are therefore S.89°9'W., 80.46 chs. Thence; S.89°47'W., on random line, bet. Ts.15 and 16 N., R.23 E. searching diligently at record intervals for the pre- viously reestablished cors.on the Tp.line. Find no trace of any old cor., until at
	160.34	Fall 75 lks.S. of the previously reestablished cor.of secs. 3,4, 33 and 34, which is a sandstone, 16x3x14 ins. above ground, firmly set in a mound of stone, marked with 3 notches on each of 2. and W.edges. No bearing trees. This monument does not agree with the record of the previous reestablishment of said cor., but dil- igent search in this vicinity fails to reveal any other corner monument or accessories; therefore, accept the above described stone and mound of stones as
		<pre>marking the true point for the sec.cor. The true course and distance of the Tp.line from the old cor.of secs.1,2,35 and 36 to this cor. are therefore N.89°57'W.,160.34 chs., which gives a proportional length of 80.17 chs. for line bet. secs.2 and 35, and for line bet. secs. 3 and 34.</pre>
		Reconstruction of cor. of secs. 1, 2, 35 and 36, Ts. 15 and 16 N., R. 23 E.
		Reconstruct the old cor.of secs.1,2,35 and 36 hereinbefore described as follows: Destroy the old mound of stones, and in center of its position, reset the old stone monument 8 ins.in the ground with the notches to the W., and alongside same, set an iron post, 3 ft.long, 2 ins.in diam.,24 ins.in the ground, for cor.of secs.1,2,35 and 36, marked on brass cap, T16N R23E. S35 S36 S 21S 1 T15N 1921

hains.	South Md coaf Townshid, 16 North D, Range 23 East.
	•
	Raise a mound of stone, 2 ft.base, 12 ft.high, W.of cor.
100 A	This cor. is reconstructed to insure its permanency, and
	as a basis for the reestablishment of the cor. of secs. 11,12,13 and 14, T.16 N., R.23 E., which is a line
	monument in the Bdy. of the Petrified Forest National
•••	Monument.
•	Reestablishment of cor.of secs.2,3,34 and 35, Ts.15 and 16 N., R. 23 E.
	10 IV., 16 2) 14.
, ,	At a point 80.17 chs.N.89°57'W.from the reconstructed
1	cor.of secs.1,2,35 and 36, hereinbefore described, whi
	is proportional to the original distance, reestablish
· .	the cor. of secs. 2, 3, 34 and 35, as follows:
	Set an iron post, 3 ft.long, 2 ins.in diam.,24 ins.in the ground, for reestablished cor.of secs.2,3,34 and
	35, Ts. 15 and 16 N., R. 23 'E., marked on brass cap,
н	JJ, IO MO, MELLOW ON JIGDD CAP,
	T16N R23E
	<u>\$34 \$35</u>
	S 3 S 2
	TI5N
•	1921
• • •	raise, a mound of stone, 2 ft.base, 12 ft.high, W.of cor
	This cor. is reestablished as a basis for the reestablish-
· · · · ·	ment of the cor. of secs. 10,11,14 and 15, and the $\frac{1}{4}$
	sec.cor. of secs.3 and 10, T.16 N., R.23 E., which are
. Alte	So line monuments in the Bdy.of the Petrified Forest Nat-
	, ional Monument.
	•
, · · ·	
-	Reconstruction of cor. of secs. 3,4, 33 and 34, Ts. 15 and
	. <u>16 N., R. 23 E.</u>
	Reconstruct the old cor. of secs.3,4,33 and 34, hereinbe-
•	fore described, as follows:
	Destroy the old mound of stones, reset the old stone mon-
	ument 9 ins. in the ground in same position, and along-
	side same, set an iron post, 3 ft.long, 2 ins.in diam.
	24 ins.in the ground, for cor.of secs.3,4,33 and 34,Ts 15 and 16 N.,R.23 E., marked on brass cap,
· · ·	I) and 10 M., N. 2) M., marked on Jrass cap,
	T16N R23E
	<u>\$33 \$34</u>
	s 4 s 3
	TIŚN
	1921 .
.	Raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high, W.of cor.
7	This cor. is reestablished as a basis for the reestab-
	lishment of the $\frac{1}{4}$ sec. cor. of secs. 10 and 15, and $\frac{1}{4}$ sec.
	cor.of secs.3 and 10, T.16 N., R.23 E. in the bdy.
	of the Petrified Forest National Monument.
•	
	No other corners on this Tp. Bdy. are required to be re-
	contructed or reestablished in connection with the
	survey of the Boundary of the Petrified Forest Nat-
	survey of the Boundary of the Petrified Forest Nat- tional Monument.
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<sup>22</sup>- 03 - 3594

	.14 Bas	urvey of part. of. Subdivision lines in T.16 N., R.23 E.	
	Chains.		
	, (	The subdivision lines of T.16 N., R.23 E.were surveyed in 1882 by Henry A.Coe, U.S.D.S., and no retracement or resurvey of any part of same is of record. The following notes describe the resurvey of the line between secs.12 and 13, the line bet.secs.11 and 14, and the E.12 of line bet.secs.10 and 15, all of which form part of the S. bdy.of the Petrified Forest Nat- ional Monument.	
	н	· · · · · · · · · · · · · · · · · · ·	
		Retracement for Resurvey.	
		First Meridional Sec.Line.	
	<b>x</b>	(	
	•	From the reestablished closing cor.of secs.l and 2,on the 4th Std.Parallel North, hereinbefore described, South, on random line,on First Meridional sec.line search ing diligently at record intervals for the original cors. Find no trace of any of the Subdivisional cors. and at	
,	48 <b>4•</b> 33	Fall 529 lks.W. of the reconstructed cor.of secs.1,2,35 and 36 on the S.bdy.of the Tp., hereinbefore described True course and distance of line back to the closing cor. of secs.1 and 2 are therefore N.0°37½'W.,484.36 chs., which gives a proportional distance of 322.68 chs.to the point for reestablishment of cor. of secs.11,12,13 and 14.	•
	322.68	From the cor.of secs.1,2,35 and 36 on.S. bdy.of Tp., N.0°37 <sup>1/2</sup> 'W., on trial line, on First Meridional Sec.line. (Proportional dist.) Set temp.cor.of secs.11,12,13 and 14.	•
	•	Second Meridional Sec.Line.	
	483•96	From the reestablished closing cor. of secs.2 and 3, on the 4th.Std. Parallel North, hereinbefore described, South, on random line, on Second Meridional sec.line, searching diligently at record intervals for the original cors. Find no trace of any of the Subdivis- ional cors., and at Fall 558 lks.W.of the reestablished cor.of secs.2,3,34	•
	40,000	and 35, on the S.bdy.of the Tp., hereinbefore describe True course and dist. back to the closing cor. of secs. 2 and 3 are therefore N.0°39½'W.,483.99 chs., which gives a proportional distance of 322.53 chs. to the point for reestablishment of cor.of secs.10,11,14 and 15.	ld.
	322 <b>.</b> 53		7 •
	- 80.63	.15. Thence, N.0°39 <sup>1</sup> / <sub>2</sub> 'W., on trial line, on Second Meridional sec.line, bet. secs. 10 and 11. (Proportional dist.) Set temp.cor.of secs.2,3,10 and 11.	•
		Third Meridional Sec.Line.	
		From the reestablished closing cor.of secs.3 and 4, on th 4th Standard Parallel North, hereinbefore described, South, on random line, on Third Meridional Sec.ling, search ing diligently at record intervals for the original	
		cors. Find no trace of any of the subdivisional	

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•	Retracement for. Resurvey(continued) Third Mer.Sec.line.	
484.05	cors., and at Fall 639 lks.W.of the reconstructed cor.of secs.3,4,33 and 34 on the S. bdy.of the Tp., hereinbefore described. True course and distance of line back to the closing cor. of secs.3 and 4 are therefore, N,0°45½'W.,484.09 cns., which gives a proportional distance of 322.48 chs. to the point for reestablishment of the cor.of secs.9,10, 15 and 16.	•
, . , .	From the reconstructed cor. of secs.3,4,33 and 34 on S.	
322.48	bdy.of Tp., N.0°45 <sup>1</sup> / <sub>2</sub> 'W., on trial line,on Third Meridional sec.line. (Proportional dist.) Set temp, cor.of secs. 9,10,15 and 16.	
. • <sup>1</sup>	Thence, N.0°452'W. on trial line, on Third Heridional sec.line, bet. secs.9 and 10.	
80.62	(Proportional dist.) Set temp.cor.of secs.3.,4, 9 and 10.	
•	Fourth Latitudinal Sec. Line.	
· · · · ·	The cor.of secs.7. and 18 on the West bdy.of the Tp.,re- estallished by me in 1920, under Group No.92, is a 2- inch iron post, projecting 12 ins. above ground,firmly set, properly marked on brass cap, and witnessed by pits,one each NE. and SE. of cor. No bearing trees.	
	Thence, Easterly( various courses as per record) on random line, on Fourth Latitudinal Sec.line, searching diligently at the record intervals on the various courses, for the original cors. No trace of any of the subdivis- ional cors. can be found, and at	
49 <b>5.1</b> 2	.Fall 156 lks.S. of the reestablished cor.of secs.7,12,13 and 18 on the Z. bdy.of the Tp., hereinbefore described This falling corresponds to a falling of 175 lks.S.of same cor. for a random line run due East thru the Tp. The true course and distance of a line back to the re- established cor. of secs. 7 and 18, on the W. bdy.of the Tp. are therefore .S.89°48'W.,495.12 chs.	<b>1</b> .
•	From the reestablished cor.of secs.7,12,13, and 18, on E.	
•	S.89°48'W., on trial line, on Fourth Latitudinal Sec.line, bet. secs.12 and 13.	
40.29	(Proportional dist.) Set temp. sec.cor.of secs.12 and 13.	
80.38 80.58	A point 9 lks.N.of.the temp.cor.of secs.11,12,13 and 14, set on trial meridional sec.line.	
	(Proportional dist.) Set temp.cor.of secs.ll,12,13 and 14. Thence, S.89°48'W., on trial line, on Fourth Latitudinal sec.	
40.37	line, bet. secs.ll and 14. (Proportional dist.) Set temp. 5 sec.cor.of secs.ll and	
79.87	14. A point 12 lks.S.of the temp.cor.of secs.10,11,14 and 15	
80.74	set on trial meridional sec.line. (Proportional dist.) Set temp. cor.of secs.10,11,14 and 15.	
	Thence, S.89°48!W., on trial line, on Fourth, Latitudinal sec.line,	
40.39	(Proportional dist.) Set temp. sec.cor. of secs.10 and	
79.89	15. A point 26 lks.S. of the temp.cor. of secs.9,10;15 and 16	
	set on trial meridional sec.line.	

<b>1</b> 6	Resurve	y of part of Subdivision lines of T.16 N. R.23, E.	
		Retracement for resurvey (continued) (Proportional dist.) Set temp.cor.of secs.9,10,15 and 16.	1000
		From the true point for reestablishment of cor.of secs.9, 10, 15 and 16, which is 26 lks.N. of this temp.sec.cor and 89 lks.W.df the temp.cor. of same secs.on trial Third Meridional sec.line, N.89.° 54'E., on true line, bet. secs.10 and 15. The true point for reestablishment of the fisec.cor. of secs.10 and 15,a.d SW.cor.of the Bdy. of the Petrified Forest National Monument. Move the previously set temp. fisec.cor. to this point. This point is monu- mented, as hereinafter described.	
	۹ ۹ د	Disti Tatitudinal Sao Tina	
	7	Fifth Latitudinal Sec.Line The cor.of secs.1,6,7 and 12, on the West bdy.of the Tp., reestablished by me in May of this year, under Group No.92, is a 2 in.iron post, projecting 12 ins.above ground, firmly set, properly marked on brass cap, and witnessed by pits, one each NE., SE., SW. and NW.of cor No bearing trees. Thence, Easterly (various courses, as per record) on random line,	
	494•34	on the Fifth Latitudinal Sec.Line, searching dili- gently at the record intervals on the various courses, for the original cors. No trace of any of the Subdi- visional cors. can be found, and at Fall 108 lks.S. of the reestablished cor. of secs.1,6,7 and 12, on the L. bdy.of the Tp., hereinbefore de- scribed. This falling corresponds to a falling of 117 mlks.S.of same cor. for a random line run due East thru. the Tp.	
•	-	The true course and dist. of a line back to the reestab- lished cor. of secs.1,6,7 and 12, on the W. bdy, of the Tp. are therefore, S. 89°52'W.,494.34 chs.	
-	160.41	From the reestablished cor.of secs.1,6,7 and 12,on the E.bdy.of the Tp., S.89°52'W.,on trial line.on Fifth Latitudinal Sec.line, A pbints7clks.S.ofltemp.cor.of secs.2,3,10 and 11,set on trial meridional sec.line.	
	<b>40.45</b> 80.50 80.91	<pre>(Proportional dist.) Set temp.cor.of secs.2,3,10 and 11. Thence, S.89°52'W., on trial line.on Fifth Latitudinal Sec.Line, bet. secs.3 and 10. (Proportional dist.) Set temp.4 sec.cor.of secs.3 and 10. A point 14 lks.S.of the temp, cor.of secs.3,4,9 and 10, set on trial meridional sec.line. (Proportional dist.) Set temp.cor.of secs.3,4,9 and 10.</pre>	
·	40•455 80•91	From the true point for reestablishment of cor.of secs. 3,4,9 and 10, which is 14 lks.N.of this.temp.sec.cor. and 41 lks.W.of the temp.cor.of same secs. set on trial Third Meridianal sec.line, N.89°49'E., on true line, bet. secs.3 and 10. The true point for reestablishment of the 4 sec.cor.of secs.3 and 10 and line monument of Bdy.of the Petri- fied.Forest National Monument. Move the previously set temp.4 sec.cor. to this point. This point is monumented as hereinafter described. The true point for reestablishment of the cor.of secs.2, 3,10 and 11, which is 7 lks.N.of the temp.cor.of same	
	•	5,10 and 11, which is 7 iks.N.of the temp.cor.of same secs. set on trial 2nd Meridional sec.line, and 26 lks.W. of the temp.cor.of same secs. set on trial 5th Latitudinal sec.line.	

	Resurve	ey of part of Subdivision lines of T.16 N., R. 25 R.7 17	
		RESURVEY.	
	12.50 30.50 40.29	From the reestablished cor.of secs.7,12,13 and 18, on the E. bdy.of the Tp., hereinbefore described, S.89°44'W., on true line, on Bdy.of the Petrified Forest National Monument, and sec.line, bet. secs.12 and 13. Over gently rolling land, thru. scattering undergrowth. Descend gradually over NW.slope. Change to W. slope, continuing gradual descent. Change to SW.slope, descending very gradually to Set an iron post, 3 ft.long, 1 in. in diam., 26 ins.in the ground for reestablished, 4 sec.cor. of secs.12 and 13, and line monument off the Bdy. of the Petri- fied Forest National Monument, marked on brass cap,	•
		PFHM <u>2</u> S 12 S 13 1921	
		Dig pits 18x18x12 ins., one each R. and W.of post, 3 ft.	
Ę	53.18 80.58	Descend very gradually over SW.slope. Old road, brs.NW and SE. A point 9 lks.S. of the temp. sec.cor. set on trial 4th Latitudinal sec.line, and 20 lks.W.of the temp.cor.of same secs. set on trial 1st Meridional Sec.line. Set an iron post, 3 ft.long, 2 ins. in diam., 24 ins.in the ground, for reestablished cor.of secs. 11,12,13 and 14, and line monument of the Bdy. of the Petrified Forest National Monument, marked on orass cap,	
		PFNM	
•	م الأدري معالي	T16N R23E <u>S11 S12</u> S14 S13 1921	
		Dig pits 18x18x12 ins., one each NE., SE.,SW. and MW.of post, 3 ft. dist. Land, gently rolling. Soil,sandy, 3rd rate. Timber, none. Undergrowth, 'scattering sagebrush. Good grass.	
	31.10	S.89°57'W., on true line, on Bdy.of the Petrified Forest National Monument and sec.line bet. secs.ll and 14. Over gently rolling land, thru.scattering undergrowth. Descend very gradually over SW. slope. South Fork of Cottonwood wash, 100 lks. ide, 2½ ft.deep, a	
	40•37	course SW. Thence over S.slope, with slight change in elevation. Set an iron post, 3 ft.long, 1 in. in diam., 26 ins.in the ground, for reestablished ‡ sec.cor.of secs.ll and 14 and line monument of the Bdy. of the Petrified For- est National Monument, marked on brass cap,	
		$ \begin{array}{c} P F N M \\ \frac{1}{4} \\ Sl14 \\ 1921 \end{array} $	•

hains.	Resurvey (continued)
	Dig pits 18x18x12 ins.; one each E and W.of post, 3 ft. dist.
53.00	Cottonwood Wash, 150 lks.wide, 3 ft. deep, course S. Thence over nearly level land.
80.74	A point 12 1ks.N. of the temp.sec.cor.set on trial 4th Latitudinal line, and 87 1ks.W.of the temp.cor.of same secs. set on trial 2nd Meridional sec.line. Set an iron post, 3 ft.long, 2 ins. in diam.,24 ins.in the ground, for reestablished cor.of secs.10,11,14 and 15, and line mmonument t of the Bdy.of the Petrified Forest National Monument, marked on Grass cap,
τ	• • • • • • • • • • • • • • • • • • • •
	$ \begin{array}{c c} \mathbf{F} & \mathbf{N} & \mathbf{M} \\ \mathbf{T16N} & \mathbf{R23E} \\ \mathbf{S10} & \mathbf{S11} \\ \mathbf{S15} & \mathbf{S14} \\ \end{array} $
	1921
? <b>▼</b>	Raise a mound of stone, 2 ft, base, 12 ft. high, W. of cor.
	Land, E. 53 chs., gently rolling; remainder, nearly level
•	Soil, sandy, 2nd and 3rd rate. Timber, none.
:	Undergrowth, scattering sage brush. Good grass.
•	·
40•39	<ul> <li>S.89°54'W., on a true line, on Bdy.of Petrified Forest National Monument, and sec.line bet. secs.l0 and 15 (E.<sup>1</sup>/<sub>2</sub>).</li> <li>Over nearly level land, thru. scattering undergrowth. Set an iron post, 3 ft.long, 1 in. in diam., 26 ins.in the ground, for reestablished 4 sec.cor. of secs.10 and 15, and SW. cor. of the Bdy. of the Petrified Forest National Monument, marked on brass cap,</li> </ul>
<u> </u>	PFNM 1 SlO·
·	\$15 1921
	Dig pits, 18x18x12 ins., one each E.and W. of post, 3 f
	dist. Land, nearly level. Soil, sandy and adobe, 2nd and 3rd rate. Timber, none.
• •	Undergrowth, scattering sage brush. Good grass.
3 •	· · · · · · · · · · · · · · · · · · ·
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		FCON	3594
<u>S</u> 1	rvey of	nart of the Subdivision lines of T.16 N., R.23 E.	
	Chains	Meridianal 🛓 sec.line of Sec.10.	
-		From the reestablished point for $\frac{1}{4}$ sec.cor. of secs.3 an 10.	.a
	30.62	South, on random line, on Meridional 1/4 sec.line of sec.10. Fall 26 lks.W. of the reestablished 1/4 sec.cor.of secs. 10 and 15, and SW.cor.of the Bdy.of the Petrified Forest National Monument, hereinbefore described.	
· · · · ·	30.60 40.31	Thence, N,0°11'W., on true line, on Heridional 4 sec.line of sec 10, and Bdy.of the Petrified Forest National Honument Over nearly level land, thru.scattering undergrowth. Road, brs.E.and W. Extends Westerly to Woodruff. (Midpoint) Set an iron post, 3 ft.long,l in. in diam., 26 ins.in the ground, for C4 sec.cor. of sec.l0 and line monument of the Bdy. of the Petrified Forest Nat ional Monument, marked on brass cap,	•
		$\begin{array}{c} P\\ \mathbf{F}\\ \mathbf{F}\\ \mathbf{N}\\ \mathbf{M} \end{array}$	
		1921	
	80.62	Raise a mound of stone, 2 ft.base, l <sup>1</sup> / <sub>2</sub> ft.high,W.of cor. Continue over nearly level land, sloping slightly to .the S., thru.scattering undergrowth. Set an iron post, 3 ft.long, l in.in diam.,26 ins.in the ground, for reestablished <sup>1</sup> / <sub>4</sub> sec.cor. of secs,3 &10 and line monument of the Bdy.of the Petrified Forest . National Monument, marked on brass cap,	)
		$\begin{array}{cccc} \frac{1}{4} & S & 3 & P \\ \frac{1}{4} & S & F \\ S & 10 & N \\ 1921 & M \end{array}$	
	•	Dig pits, 18x18x12 ins., one each E.and W.of post,3 ft. dist. Land, nearly level. Soil, sandy and rocky,2nd and 3rd rate. Timber, none. Undergrowth, scattering sage brush. Good grass.	
		*	
. • •		Meridional $\frac{1}{4}$ sec. line of Section 3.	
· · · · · · · · · · · · · · · · · · ·	80.90	<ul> <li>From the ¼ sec.cor. on N. bdy. of sec.3 (4th.Std.Paralle: N.) hereinbefore described,</li> <li>South on random line on Meridional ¼ sec.line of sec.3.</li> <li>Fall 8011ks.W.of the reestablished ¼ sec.cor.of secs.3 and 10, hereinbefore described.</li> </ul>	1
	39.40 40.31	Thence; N.0°34'W., on true line; on Meridional 4 sec.line of sec. 3, and Bdy. of Petrified Forest National Monument. Over nearly level land, thru.scattering undergrowth. Old road, brs.E.and W. (Proportional dist.) Set an iron post, 3 ft.long, 1 in. in diam., 26 ins.in the ground, for C 4 sec.cor.of sec.3, and line monument of the Bdy.of the Petrified Forest National Monument, marked on brass cap,	
- -		C <sup>1</sup> / <sub>4</sub> S 3 F N 1921 <sup>M</sup>	
•	N - 1	Dig pits, 18x18x12 ins., one each N.and S.of post, 3 ft. dist.	
	1		1

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hains.	-		۰ <del>.</del>		23 🗉 -	¢		
	Continue ov	ver nearly 1	evel lar	ıđ.	, i			
	Ascend'slig	htly over S	∙slope. s.NW. ar	id SE.				
65.00 1	Old abandoned road, brs. NW. and SE. Leave nearly level, and enter rolling land.							
	Ascend 50 ft., over S. slope, to Rim of mesa, brs. E. and W. Leave rolling, and enter nearly							
<ul> <li>1000 Intersect the N. 1/4 sec.cor. of sec.3 on the 4th.Std.Par.</li> <li>N., hereinbefore described.</li> <li>Land, S.65 chs. and N. 8 chs. nearly level; remainder,</li> </ul>							ar.	
	Land, S.65 rolling,		öchs.	nearly 1	evel; r	emaindei	c,	
,	Soil, sandy	and rocky,	2nd and	3rd rate	ð.		•	
. · .	Timber, nor Undergrowth	ne. n, scatterin	ig Sage	brush.	e '			
	Good grass.			· · · · ·				
,	The continu	ued satisfac	etory ad	justment	of the	solar a	opara-	
	tus dur:	ing the exec	ution o	f the rea	survey a	nd surve	ey	
		efore descri ribed in Boo		Indicated		TeTa re:	500	
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	Boundaries within	of that por the <b>Petr</b> ifie	rtion of ad Fores	T. 16 N. t Nationa	, R. 23 B	. situa 1ent.	ted	
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Latitudes, departures, and closing er						· •		
		adob, adjuar	cures, a	na crosi	ng error	;S∙		
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Lines de	с						res.	
Lines de	signated.	True bearing.	Dist.	Latitu		Departu E.	res.	
Lines de	с	True bearing. S.89°448W.	Dist. 80.58	Latitu	des.	Departu	W. 80.5	
· · · · · · · · · · · · · · · · · · ·	signated.	True bearing. S.89°448W.	Dist. 80.58 80.74	Latitu	des. S. •37 •07	Departu	80.50 80.7	
· · · · · · · · · · · · · · · · · · ·	с	True bearing. S.89°448W. S.89°57'W. S.89°54'W. N.0° 11'W.	Dist. 80.58 80.74 40.39 80.62	Latitu N. 80.62.	des. S. •37	Departu	W. 80.5	
Boundar	signated.	True bearing. S.89°448W. S.89°57'W. S.89°54'W.	Dist. 80.58 80.74 40.39	Latitu N.	des. S. •37 •07	Departu	80.50 80.7	
Boundar; M.	signated. y of P.F.N.	True bearing. S.89°448W. S.89°57'W. S.89°54'W. N.0° 11'W.	Dist. 80.58 80.74 40.39 80.62 80.90	Latitu N. 80.62.	des. S. •37 •07	Departu	80.50 80.7	
Boundar; M.	signated.	True bearing. S.89°448W. S.89°57'W. S.89°54'W. N.0° 11'W. N.0° 34'W.	Dist. 80.58 80.74 40.39 80.62 80.90	Latitu N. 80.62 80.90	des. S. •37 •07	Departu E.	80.50 80.7	
Boundar; M.	signated. y of P.F.N. undary .Par.N.)	True bearing. S.89°448W. S.89°57'W. S.89°54'W. N.0° 11'W. N.0° 34'W.	Dist. 80.58 80.74 40.39 80.62 80.90 200.89	Latitu N. 80.62 80.90	des. S. •37 •07	Departu E.	80.50 80.7	
Boundar; M. North bo (4th.Sto	of P.F.N. undary Par.N.)	True bearing. S.89°448W. S.89°57'W. S.89°54'W. N.0° 11'W. N.0° 34'W. N.89°59'E.	Dist. 80.58 80.74 40.39 80.62 80.90 200.89	Latitu N. 80.62 80.90	des. S. •37 •07 •07	Departu E. 200.89	80.50 80.7	
Boundar; M. North bo (4th.Sto East bot	of P.F.N. undary Par.N.)	True bearing. S.89°448W. S.89°57'W. S.89°54'W. N.0° 11'W. N.0° 34'W. N.89°59'E. S.0°38'E.,	Dist. 80.58 80.74 40.39 80.62 80.90 200.89	Latitu N. 80.62 80.90	des. S. •37 •07 •07	Departu E. 200.89 1.78	W. 80.56 80.7 40.3 .2 .2 .7	
Boundar; M. North bo (4th.Sto East bot	of P.F.N. oundary Par.N.) undary, ency, <u>Tota</u>	True bearing. S.89°448W. S.89°57'W. S.89°54'W. N.0° 11'W. N.0° 34'W. N.89°59'E. S.0°38'E., 1s,	Dist. 80.58 80.74 40.39 80.62 80.90 200.89 161.05	Latitu N. 80.62 80.90 .06 161.58 161.56	des. S. •37 •07 •07 •07	Departu E. 200.89 1.78 .07	W. 80.5 80.7 40.3 -2 -7	
Boundar; M. North bo (4th.Sto East bot	of P.F.N. oundary Par.N.) undary, ency, <u>Tota</u> Erro	True bearing. S.89°448W. S.89°57'W. S.89°54'W. N.0° 11'W. N.0° 34'W. N.89°59'E. S.0°38'E., Is, r in latitu	Dist. 80.58 80.74 40.39 80.62 80.90 200.89 161.05 de.	Latitu N. 80.62 80.90 .06	des. S. •37 •07 •07	Departu E. 200.89 1.78 .07	W. 80.56 80.7 40.3 .2 .7 .7 .2 .2 .2 .7	
Boundar; M. North bo (4th.Sto East bot	of P.F.N. oundary Par.N.) undary, ency, <u>Tota</u> Erro	True bearing. S.89°448W. S.89°57'W. S.89°54'W. N.0° 11'W. N.0° 34'W. N.89°59'E. S.0°38'E., 1s,	Dist. 80.58 80.74 40.39 80.62 80.90 200.89 161.05 de.	Latitu N. 80.62 80.90 .06 161.58 161.56	des. S. •37 •07 •07 •07	Departu E. 200.89 1.78 .07	W. 80.56 80.7 40.3 .2 .2 .7	
Boundar; M. North bo (4th.Sto East bot	of P.F.N. oundary Par.N.) undary, ency, <u>Tota</u> Erro	True bearing. S.89°448W. S.89°57'W. S.89°54'W. N.0° 11'W. N.0° 34'W. N.89°59'E. S.0°38'E., Is, r in latitu	Dist. 80.58 80.74 40.39 80.62 80.90 200.89 161.05 de.	Latitu N. 80.62 80.90 .06 161.58 161.56	des. S. •37 •07 •07 •07	Departu E. 200.89 1.78 .07	W. 80.56 80.7 40.3 .2 .7 .7 .2 .2 .2 .7	
Boundar; M. North bo (4th.Sto East bot	of P.F.N. oundary Par.N.) undary, ency, <u>Tota</u> Erro	True bearing. S.89°448W. S.89°57'W. S.89°54'W. N.0° 11'W. N.0° 34'W. N.89°59'E. S.0°38'E., Is, r in latitu	Dist. 80.58 80.74 40.39 80.62 80.90 200.89 161.05 de.	Latitu N. 80.62 80.90 .06 161.58 161.56	des. S. •37 •07 •07 •07	Departu E. 200.89 1.78 .07	W. 80.56 80.7 40.3 .2 .7 .7 .2 .2 .2 .7	
Boundar; M. North bo (4th.Sto East bot	of P.F.N. oundary Par.N.) undary, ency; <u>Tota</u> <u>Erro</u>	True bearing. S.89°448W. S.89°57'W. S.89°54'W. N.0° 11'W. N.0° 34'W. N.89°59'E. S.0°38'E., Is, r in latitu	Dist. 80.58 80.74 40.39 80.62 80.90 200.89 161.05 de.	Latitu N. 80.62 80.90 .06 161.58 161.56	des. S. •37 •07 •07 •07	Departu E. 200.89 1.78 .07	W. 80.56 80.7 40.3 .2 .7 .7 .2 .2 .2 .7	
Boundar; M. North bo (4th.Sto Convergo	of P.F.N. oundary Par.N.) undary, ency; <u>Tota</u> <u>Erro</u>	True bearing. S.89°448W. S.89°57'W. S.89°54'W. N.0° 11'W. N.0° 34'W. N.89°59'E. S.0°38'E., Is, r in latitu	Dist. 80.58 80.74 40.39 80.62 80.90 200.89 161.05 de.	Latitu N. 80.62 80.90 .06 161.58 161.56	des. S. •37 •07 •07 •07	Departu E. 200.89 1.78 .07	W. 80.56 80.7 40.3 .2 .7 .7 .2 .2 .2 .7	



BOOK 3594

Book "A" Group 118 - - - Arizona. 4-680

### FIELD ASSISTANTS.to

NAMES.	CAPACITY.
	lst chainman,
Robert R. Parsons,	2nd chainman,
Hal Ballard,	cornerman,
Ty White,	axman,
Jesse A.Frost,	flagman.
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#### CERTIFICATE OF UNITED STATES CADASTRAL ENGINEER.

I. Sidney E. Blout, U.S. Cadastral Engineer Surveyor, hereby certify upon honor that, in pursuance of special instructions received from the U.S. Surveyor General, for \_Group-No.118, \_\_Arizone, \_\_\_\_\_ in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instrucretions, and the laws of the United States, surveyed all those parts or portions of \_\_\_\_\_\_ Fourth Standard Parallel North, tinuRange 23 East, and the Subdivision lines of Township 16 North, Range 23 East, Reconstructed the cor. of Ts. 14 and 15 N., Rs. 23 and 24 East, and Cor. of Ts. 15 and 16 H., Rs. 23 and 24 E., Reconstructed and Reestablished certain sec.cors.on the S. and E. bdrs.of Tal6 N. R.23 E ; and surveyed all those parts or portions of the Subdivision lines of T.16 Mi Re 23 E., of the Gila and Salt River Based. Meridian, in the State of Arizona, ....., which are represented in

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 resurvey 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 118, Arizona.

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

Sidney & Blout S. Cadastral Engineer. Place: Kentmental Cursona 5.1928 Date: APPROVAL

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Arizona, July 9, 19 23

re-. The foregoing field notes of the survey of the Fourth Standard Parallel North, thru.part of Range 23 East, and of Part of Subdivision lines of Township 16 North, Range 23 East, Reconstruction of Cor. of To. 14 and 15 N., Rs. 23 and 24 E.; Cor. of Ts. 15 and 16 N., Rs. 23 and 24 E.; Reconstruction and Reestablishment of Certain sec. cors.on the S.and E.bdrs.of T.16 N. R.23 E. and Survey of Part of the Subdivision lines of Township 16 North, Range 23 East, of the Gila and Salt River Base and Meridian, in the State of Arizona.

executed by \_Sidney\_E.\_Blout, U.S.Cadastral\_Engineer,

under his special instructions dated June 14,1921, sors Grp.118.Arizona, ...., 10 , having been critically examined, and the necessary corrections and explanations made, the said field notes, and the sreauxvey and surveys they describe, are hereby approved.

U. S. Surveyor General.

the foregoing transcript of the field notes of the described surveys in

been correctly copied from the original notes on file in this office.