4-679

Book "A"

BOOK 3549

FIELD NOTES

OF THE SURVEY OF

	part of the West boundary.	
	and part (completion) of the Subdivisi	on lines of
	Township 24 North, Range 12 West,	
		· · · · · · · · · · · · · · · · · · ·
	(In the Hualpai Indian Reservation)	
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In the Sto	tate ofArizona	
•	EXECUTED BY	
. <u>.</u>	James C. O'Brien, U. S. Surveyor,	
3		
To +70 a agr	pacity of U.S. Surveyor, under Special Instructions dated!	February 26 19 2 0
in one cap	pacing of o. B. Surveyor, where special interaction accessed	
issued by	by the United States Surveyor General to govern surveys	included in Groi
- 1	y the United States Surveyor General to govern surveys Arizona, which were approved by the Commissioner of	
No. 109.	Arizona , which were approved by the Commissioner of	the General Lar
No. 109.		the General Lar
No. 109.	Arizona , which were approved by the Commissioner of March 10 , 19.20, and Assignment Instructions dated Se	the General Lan
No. 109.	Arizona , which were approved by the Commissioner of	the General Lar

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INDEX DIAGRAM.

43	7	7	É	5	5	
# 6	Hualpai	Indian	Reservati	on boundar	<u> 1</u>	+
7	8	9	10	11	12	†
18	17	16	15	14	13	+
ją į	20	21	22	28	24	+
30	20	28	27	26	25	-
81	32	38	84	38	36	+

Surveyed under this Group	
Surveyed under current Group 108	
Accepted surveys	
Areas surveyed as shown by accented	nlats

Pate Diagram Year 1920

Township 24 North, Range 12 West

Sixth Standard Parallel North For dates of survey see Book"B" 9-10 Hualpai Indian Reservation boundary , 9 18: 15 : 19 . 21 . 27 -

On the above diagram, red lines indicate surveys executed by James C.O'Brien, U.S. Surveyor, on dates shown thereon, black lines indicate accepted surveys, and blue lines indicate surveys under Current Group No.108.

- Surveys hereinafter described executed by Janes C. O'Brien, U.S.Surveyor, on dates shown on diagram on page 1 here-of, using Young and Sons' light mountain transit No.8389, described with certificate of approval in Book "B".
- Unless otherwise specified, all measurements are made with a Lufkin steel tape, 5 chs.in length, compared with a Chesterman standard steel tape, and found correct. The measurements are, made on the slope, the vertical angles determined, and the slope measurements properly reduced to true horizontal distances.
- I examine the adjustments of the transit and correct all errors; then, to test the solar apparatus, by comparing its indications, resulting from solar observations, made during a.m. and p.m. hours, with a meridian determined by observations on Polaris at elongation, I proceed as follows:
- Sept.9,1920. At our camp at Mud Tank, in sec.34,T.25
 N.,R.12 W.,G.and S.R.B.and M.,lat.35031'N.,
 long.113033½'W.,at 3 hrs.0 m.,p.m.,l.m.t.,I set off
 35031'N.on the lat.arc; 5011'N.on the dcl.arc, and
 determine a meridian with the solar, and mark a point in
 the line thus determined by a tack driven in a stake,
 firmly set in the ground, 5 chs. N.of my station.
- At 8 hrs. 21 m.p.m., l.m.t., I observe Polaris at eastern elongation, in accordance with the Manual of instructions, and mark a point in the line thus determined by a tack in a stake, firmly driven in the ground, 5 chs.N.of my station.
- Sept.10,1920. At 8 hrs.0 m.a.m., l.m.t., I lay off the azimuth of Polaris, 1022½ to the west, and mark the true meridian thus determined by a tack in a stake, firmly set in the ground, 5 chs. N. of my station.
- At 9 hrs.0 m.,a.m.,l.m.t.,I set off 35031'N.on the lat. arc;4054'N.on the decl.arc;and determine a meridian with the solar,which I find agrees with the true meridian and with the solar meridian of yesterday afternoon.
- As all of the solar observations during the usual hours of solar work come within 1'30" of the true meridian, I conclude that the adjustments of the solar are satisfactory.

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The West Boundary of T.24 N., R.12 W., was surveyed to an intersection with the South Boundary of the Hualpai
                  Indian Reservation in October and November, 1910, by
                  Jesse B. Wright, U.S. Surveyor, and no subsequent retracement or resurvey of this line is of record.
            From the closing cor. of Ts.24 N., Rs.12 and 13 W., on the West Boundary of T. 24 N., R. 12 W., at the intersection
                  of said Bdy.with the South Boundary of the Hualpai Indian Reservation, 37.60 chs.North of the cor.of secs. 1,6,7 and 12, said closing cor. being an iron post, 3 ins.diam., 12 ins.above ground, properly marked, wit-
                  nessed by a mound of stone,
             North bet. secs. 1 and 6
             Over rolling land, through scattering timber and under
                  growth.
            (40.00 chs. North of the cor.of secs.1,6,7 and 12) Set an iron post, 3 ft. long, 1 in. diam., 26 ins.in the ground, for 4 sec.cor., marked on brass cap
 2.40
                                                    S 1 | S 6
                                                        1920
            From which
                  A cedar, 6 ins. diam., brs. N.5130E.,
103 lks. dist., marked $56 B T.
A cedar, 6 ins. diam., brs. S.6520W.,
172 lks.dist., marked $5 1 BT.
            Shallow draw, course SE.
11.20
13.80
             Asc. SW. slope.
            Spur, slopes SE. (72.40 chs. North of the cor.of secs.1,6,7 and 12)
Intersect the 6th Standard Parallel North, 21.79 chs.
21.30
34.80
                  East of the SW. cor. of T.25 N., R.12 W., described in Book "B".
            At the point of intersection,
Set an iron post, 3 ft. long, 3 ins.diam.,6 ins.in the
ground, in a mound of stone, for closing cor. of Ts.
                  24 N., Rs. 12 and 13 W., marked on brass cap
                                                 T25N R12W
                                                      S31
```

S 1 S 6 R13W R12W T24N 1920

From which

A cedar, 12 ins. diam., brs. S.26 CE., 62 lks. dist., marked T24N R12W S6 CC BT.

A cedar, 12 ins.diam., brs.S.3730W. 154 lks.dist., marked T24N R13W S 1 CC BT.

Land, rolling. Scil, rocky, 3rd and 4th rates.

Timber, cedar.

Undergrowth, sagebrush and scrub oak.

4

Boundaries of that Part of T. 24 N., R.12 W. Surveyed under this Group.

Latitudes, departures and closing errors.

Time	a 5 a d a d	Mana haardaa	704 - L.	Latit	udes	Departi	ures
Line de	signated	True bearing	Dist.	14	S	E	W
	oundary Hualpai s.)	West,	478.58				478.58
West Bo	undary	North	:34.80	34.80			
	oundary d.Par.N.)	. East	4 78 ,95		:	478.95	: :
East Bo	undary	South	35.48	:	35.48	f r u	
Converg	ency		:	ï		.04	
Totals				34.80	35.48	478.99	478.58
2					34.80	478.58	
Error 1	n lat.				.68		
Error 1	n dep.					.41	

```
Chains T.24 N., R.12 W., was subdivided south of the Hualpai
                   Indian Reservation in January 1912, by Jesse B. Wright
                   and William H. Elliott, U.S. Surveyors, Who established
                   closing subdivisional cors on the South Boundary of the
             Reservation, which are the cors hereinafter described. The boundary of the Hualpai Indian Reservation was sur-
                  yeyed in August and September 1900 by Albert T.Colton, U.S.Deputy Surveyor, no mile of which through T.24 N.,
                   R.12 W.has been retraced or resurveyed.
             From the closing cor. of secs.1 and 2, on, the S. bdy. of the Hualpai Indian Reservation, 36.78 chs.N.O°1'W.of
                   the cor. of secs.1,2,11 and 12, said closing cor.being an iron post,2 ins.diam.,12 ins. above ground,
                   properly marked, witnessed by pits and a mound of earth,
             N.0°1'W., on a true line, bet. secs. 1 and 2, over rolling land, through scattering timber and undergrowth. (40.00 chs., N.0°1'W. of the cor. of sec.1, 2, 11 and 12)
Set an iron post, 3 ft.long, 1 in.diam., 26 ins. in the ground, for 4 sec. cor., marked on brass cap
  3.22
                                                         S 2 S 1
                                                             1920
                   From which
             A cedar, 10 ins.diam., brs. S.76½°E.,

127 lks.dist.marked \{S1 BT.}

A cedar, 6 ins. diam., brs. N.51½°W.,

71 lks.dist., marked \{\frac{1}{4}}S2 BT.

(72.26 chs.M.0°1'W.of the cor.of secs.1,2,11 and 12)
35.48
                   Intersect the 6th Standard Parallel North 18.25 chs.W. of the standard cor. of secs. 35 and 36, described in
                   Book "B"
                   Set an iron post, 3 ft. long, 2 ins.diam., 26 ins.in
                   the ground, for closing cor.of secs. 1 and 2,
                  the ground, 11. marked on brass cap. T25N_R12W
                                                         S35
S2S1
                                                       T24N R12W C C
                                                             1920
               ' From which '
                        A twin cedar, 10 ins.diam., brs. S.43 to E., 324 lks. dist., marked T24N R12W S1 CC BT. A cedar, 12 ins. diam., brs. S.32 to W.,
                               518 iks.dist., marked T24N R12W S2 CC BT.
             Land, rolling.
             Soil, gravelly, 2nd and 3rd rates.
             Timber, cedar.
             Undergrowth, Spanish bayonet...
             Fair grass.
             From the closing cor. of secs. 2 and 3, on the S.bdy.of the Hualpai Indian Reservation, 36.85 chs.N.001'W.of the cor. of secs. 2,3,10 and 11, said closing cor.being an iron post; 2 ins.diam.,12 ins.above ground, properly marked, witnessed by pits and a-mound of earth, N.001'W., on a true line, bet.secs.2 and 3, over rolling land, through scattering undergrowth.
             land, through scattering undergrowth..
(40.00 chs.,N.001'W.of the cor.of secs.2,3,10 and 11)
Set an iron post, 3 ft. long, 1 in.diam.,26 ins.in the
3.15
                   ground, for \frac{1}{4} sec.cor., marked on brass cap
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Survey of Completion

of Subdivision of T. 24 N., R. 12 W.

Chains. S 3 S 2 1920 Dig pits, 18 x 18 x 12 ins., N. and, S. of post, 3 ft.dist. (72.31 chs. N. 0°1'W. of the cor. of secs. 2, 3, 10 and 11)
Intersect the 6th Standard Parallel North, 18.44 chs. 35.46 W. of the standard cor. of secs. 34 and 35, described in Book "B".. At the point of intersection, set an iron post, 3 ft. long,2 ins.diam.,26 ins.in the ground, for closing cor. of secs,2 and 3, marked on brass cap T25N R12W S34' S 3 S 2 TRAN R12W C|C. 1920 Dig pits, 18 x 18 x.12 ins., E., S. and W. of post, 3 ft.dist. Land, rolling. Soil, gravelly, 2nd and 3rd rates. No timber. Undergrowth, Spanish bayonet. Fair grass. From the closing cor. of sess. 3 and 4, on the S.bdy.of the Haulpai Indian Reservation, 37.06 chs.N.0°l'W.of the.cor. of secs. 3,4.9 and 10,said closing cor.being an iron post, 2 ins.diam.,12 ins.above ground, properly marked, witnessed by pits and a mound of earth, N.0°2'W. on a true line, bet. secs. 3 and 4, over rolling land. Three strand barb wire fence, brs. E. and W. (40.00 chs. N.0°2'W. of the cor. of secs. 3,4,9 and 10) Set an iron post, 3 ft. long, 1 in. diam., 26 ins.in the ground, for \(\frac{1}{2}\) sec. cor., marked on brass cap 0.06 2,94 S 4 S 3 1920 Dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist. (72.39 chs. N. 0°2'W. of the cor. of secs. 3, 4, 9 and 10)

'Intersect the 6th Standard Parallel North, 18.53 chs. 72,39 35.33 West of the standard cor. of secs. 33 and 34, described in Book "B". At the point of intersection, set an iron post, 3 ft. long, 2 ins.diam., 26 ins.in the ground, for closing cor. of secs. 3 and 4, marked on brass cap T25N R12W S33 S 4 S 3 T24N R12W C C 1920 Dig pits, 18 x18 x 12 ins., E., S. and W. of post, 3 ft. dist. Land, rolling. Soil, gravelly, 2nd and 3rd rates. No timber or undergrowth.

Survey of Completion of Subdivision of T. 24 N., R. 12 W.

7

From the closing cor. of secs. 4 and 5, on the South Chains Boundary of the Hualpai Indian Reservation, 37.17 chs. N.003'W. of the cor. of secs. 4,5,8 and 9, said closing cor. being an iron post, 2 ins. diam., 12 ins. above ground, properly marked, witnessed by pits and mound of earth, N.003'W. on a true line, bet. secs. 4 and 5, Over open, rolling land. Three strand barb wire fence, brs. E. and W. (40.00 chs. N.003'W of the cor. of secs. 4,5,8 and 9)
Set an iron post, 3 ft. long, 1 in. diam., 26 ins.in the ground, for 4 sec.cor., marked on brass cap 0.06 2.83 S 5 S 4 Dig pits, 18 x 18 x 12 ins., N. and S. of post, 3 ft. (72.27 chs. N.003 W. of the cor. of secs. 4,5,8 and 9) 35.10 Intersect the 6th Standard Parallel North, 18.56 chs. West of the standard cor. of secs. 32 and 33, described in Book "B". At the point of intersection, set an iron post, 3 ft. long, 2 ins. diam., 26 ins. in the ground, for closing cor. of secs. 4 and 5, marked on brass cap T25N R12W **S32**

T25N R12W S32 S 5 S 4 T24N R12W C C 1920

Dig pits, 18 x 18 x 12 ins., E., S. and W. of post, 3 ft. dist.

Land, rolling and slightly rolling.

Soil, gravelly, 2nd and 3rd rates.

No timber or undergrowth.

Fair grass.

From the closing cor. of secs. 5 and 6, on the S. Bdy.of the Hualpai Indian Reservation, 37.35 chs. N.O. W.of the cor. of secs. 5,6,7 and 8, said clesing cor. heing an iron post, 2 ins. diam., 12 ins. above ground, properly marked, witnessed by

A cedar, 8 ins. diam., brs.S.5620E.,
144 lks. dist., marked T24N R12W S 5 CC BT.
A cedar, 10 ins.diam., brs.S.1420W.,
224 lks.dist., marked T24N R12W S6 CC BT.

N.003'W. on a true line, bet. secs. 5 and 6, over rolling land, through scattering undergrowth.

Three strand barb wire fence, brs. E. and W.

(40.00 chs. N.003'W of the cor. of secs. 5,6,7 and 8)

Set an iron post, 3 ft. long, 1 in. diam.,26 ins. in the ground, for \$\frac{1}{4}\$ sec. cor., marked on brass cap

S 6 S 5

0.08

2.65

Survey of Completion

of Subdivision of T. 24 N., R.12 W.

Chains From which A cedar, 14 ins. diam., brs. S. 723°E.,

126 lks. dist., marked \$55 BT.

A cedar, 16 ins. diam., brs. N.83°W.,

138 lks.dist., marked \$56 BT.

Road, brs. NE. to Mud Tank and SW. to Hackberry.

Road, brs. SE. to Hackberry and NW. to

(72.33 chs. N.003'W.of the cor.of secs.5,6,7 and 8)

Intersect the 6th Standard Parallel North, 18.71 5.50 24.00 34.98 Intersect the 6th Standard Parallel North, 18.71 chs. West of the standard cor. of secs. 31 and 32, described A the point of intersection, set an iron post, 3 ft. long, 2 ins. diam., 26 ins. in the ground, for closing cor.

T25N R12W S31 S 6 S 5 T24N | R12W clc 1920

From which .

A cedar, 8 ins. diam., brs. S.50% oE.

133 lks. dist. marked T24N R12W S5 CC BT. A cedar, 14 ins. diam. brs. S.5120W., 136 lks. dist. marked T24N R12W S6 CC BT.

Land, rolling. Soil, gravelly, 2nd and 3rd rates.

Timber, cedar.

Undergrowth, cactus.

Fair grass.

The continued.satisfactory adjustment of the solar apparatus during the survey of the completion of the subdivision of this Tp. is indicated from field tests as described in Book "B".

. GENERAL DESCRIPTION.

The portion of T.24 N., R.12 W., surveyed at this time is rolling gravelly land, suitable for grazing, but unwatered with cedar timber in patches, and scattering cactus undergrowth. No water has been developed in this part of the. Tp. There are no settlers, nor are there any indications of mineral.

FIELD ASSISTANTS. to

James C.	O'Brien, U.S.S.
NAMES.	CAPACITY.
T. E. Sheffield,	lst chainman,
Max Dessau,	2nd chainman,
Hugh Bowers,	axman,
Leon L. Lamb,	flagman,
·	
6	
	-

10

CERTIFICATE OF UNITED STATES SURVEYOR.

I, James G. O' Stien. U. S. Surveyor, hereby certify upon honor that, in pursuance of special instructions received from the U. S. Surveyor General for Group 109, Arizona, bearing date of the 20th day of February, 1920, I have well, faithfully, and truly in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the West boundary and Subdivision lines of Township 24 North, Range 12 West, Of the Gila and Salt West, and Salt States and 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 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 109, Arizona, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey. Place Township Company James C. O' Brien, (deceased) Approval Asst. Supervisor of Surveys. Office of The United States Supervisor General, Phoenix, Arizona, MAY 24 1923 1923 1923. The foregoing field notes of the survey of part of the Manual of Surveys and Part(completion) of the Subdivision lines of
bearing date of the 20th day of February, 19120, I have well, faithfully, and truly in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the West boundary and Subdivision lines of Township 24 North, Range 12 West, of the Gila and Salt River Base and 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 survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the specific manner described in the field notes, and that the foregoing are the original field notes of such survey. Place Thought 123 By Approval. Asst. Supervisor of Surveyes. Office of the United States Surveyor General, Phoenix, Arizona, MAY 24 1923, 1923. The foregoing field notes of the survey of part of the West boundary, and
in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the 'West' boundary , and Subdivision lines of TOWNSHIP 24 NORTH, RANGE 12 W.ST, of the Gila and Salt River Base and Meridian, in the State of Arizona. , which are represented in and by diagram on page i hereof the foregoing field notes as having been executed by me, and under my direction; and that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyor General, for Group 109, Arizona, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey. Place House House James C. O'Brien, (deceased) By James C. O'Brien, (deceased) W.S. Surveyor. By Approval. Asst. Supervisor of Surveys. Office of the United States Surveyor General, Phoenix, Arizona, MAY 24 1923 , 1923. The foregoing field notes of the survey of part of the West boundary, and
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OFFICE OF THE UNITED STATES SURVEYOR GENERAL, Phoenix, Arizona, MAY 24 1923, 1923. The foregoing field notes of the survey of part of the West boundary, and
OFFICE OF THE UNITED STATES SURVEYOR GENERAL, Phoenix, Arizona, MAY 24 1923, 1923. The foregoing field notes of the survey of part of the West boundary, and
Office of the United States Surveyor General, Phoenix, Arizona, MAY 24 1923, 1923. The foregoing field notes of the survey of part of the West boundary, and
Phoenix, Arizona, MAY 24 1923, 1923. The foregoing field notes of the survey of part of the West boundary, and
The foregoing field notes of the survey of part of the
West boundary, and
TOWNSHIP 24 NORTH, RANGE 12 WEST,
of the Gila and Salt River Base and Meridian, in the State of Arizona,
executed by James C.O'Brien, U. S. Surveyor,
under his special instructions dated Feby. 25, 1920, for Group 109, Arizona, , having been
critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys
they describe, are hereby approved.
U. S: Surveyor General.
I certify that the feregoing transcript of the field notes of the above described surveys in
, has been correctly copied from the original notes on file in this office.