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Book "F"

# BOOK 3492 FIELD NOTES

#### OF THE RESURVEY OF

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	pack of and many continue	1. J. 9. anu.
	part of the Subdivision	lines of
	/	
	Fractional Township 18 North, Range	7 West
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the State o	fArizona EXECUTED B	
	באבססובט ט	'
	Otis Ross, U. S. Survey	yor,
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the canacity	u of II & Surpoyor under Special Inch	mustions dated Ostaber 15 101
πιο σαμάσειξ	y of U.S. Surveyor, under Special Insti	, ucuons aarea <b>uc.tooer .15</b> , 191
sued by the	United States Surveyor General to	govern surveys included in Gro
). 104, Ariz	ona , which were approved by the C	Commissioner of the General Lar
ffice, Octobe	r 29 , 1919 , and Assignment Instr	uctions dated November 7 1979
,	, , , , , , , , , , , , , , , , , , ,	101
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survey and	Survey commenced March 13	, 19 <b>.20</b>
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# INDEX DIAGRAM. Township ...... Range ..... . 19

### BOOK 3492

3492

#### Index diagram

Fractional Township 16 North, Range 7 West,

Luis Maria Baca Float No.5



Lines	surveyed under this Group.						
Lines	resurvey	ed 1	ındeı	this Gr	oup.		
Accept							
/////////////Areas	surveyed	2.8	per	accepted	l plats	on	file.

Date Diagram

Fractional Township 18 North, Range 6 West,



On the above diagram:-

Red lines indicate surveys, and

Blue lines indicate resurveys,

executed by Otis Ross, U. S. Surveyor,

on dates shown thereon, and

Black lines indicate accepted surveys.

- Survey commencedMarch 15, 1920, and executed with a Young and Sons mountain transit No. 8501; the instrument is equipped with a full vertical circle and the Smith solar attachment; unless otherwise specified all azimuth determinations are accomplished with the solar attachment.
- March 14, 1920: I examine the adjustment of the instrument and correct all errors, then to test the solar apparatus by comparing its indications from observations made during a. m. and p. m. hours with a meridian established by Polaris observation proceed as follows
- In camp near the NE. cor. of T. 18 N., R. 6 W., Gila and Salt River Base and Meridian, Arizona, in latitude 34° 59' N., and longitude 112° 50' W., at 7 h. 58.4 m. p.m., l.m.t., I observe Polaris at western elongation, making four observations, two each with the telescope in direct and reversed positions, and mark the mean point in the line thus determined, on a peg driven firmly in the ground 5 chs. N.
- Azimuth of Polaris at western elongation = 1° 21' 53".
- March 15, 1920: I lay off the azimuth of Polaris 1° 22' to the east, and mark the meridian thus determined by a tack in a peg driven firmly in the ground, 5 chs. N.
- At 7 h.. 30 m. a.m., l.m.t., I set off 34° 59' N. on the lat. arc: 2° 055' S. on the decl. arc; and determine a meridian with the solar, which I find to agree with the true meridian.
- At app. noon, with the lat arc unchanged, I observe the sun on the meridian; the resulting reading of the decl. arc, is 2° 00' S., which agrees with the computed declination of the sun.
- At 4 h. 30 m. p.m., l.m.t., with the lat. arc unchanged, I set off l 562 S. on the decl. arc; and determine a meridian with the solar which I find to agree with the true meridian.
- As all of the solar observations during the usual hours of solar work come within 1 30" of the true meridian, I conclude that the adjustments of the instrument are satisfactory.
- Unless otherwise specified all measurements are made with a Lufkin steel tape 5 chains in length, compared with a Chesterman standard steel tape and found correct. The measurements are made on the slope, the vertical angle determined, and the slope measurements properly reduced to true horizontal distances.

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Survey of a portion of East bdy. of fracl. T. 18 N., R. 7 W. The original cor. of Ts. 18 and 19 N., R. 6 W., and fracl. Ts. 18 and 19 N., R. 7 W., is an iron post 3 ins. in diam., properly marked on brass cap, firmly set in a mound of stone, and witnessed by a mound of stone, S. Chains of cor., and three bearing trees, as follows

A pine, 30 ins. in diam., brs. N. 80° E., 117

lks. dist., marked T 19 N R 6 W S 31 BT.

A pine, 30 ins. in diam., brs. S. 29° W., 44 lks.

dist., marked T 18 N R 7 W S 1 BT.

A pine, 10 ins. in diam., brs. N. 7° W., 55 lks.

dist., marked T 19 N R 7 W S 36 BT.

Thence

South, on a true line, on E. bdy. of sec. 1. Over mountainous land, thru dense timber and undergrowth. Ascend 67 ft. over N. slope.

1.20 Spur, slopes W. Descend 75 ft., over SW. slope.

10.46 Foot of descent at bend of gulch, course from S. to MW. Ascend 35 ft. along E. side of gulch.

18.42 Cross same gulch, fourse N. from SE. Ascend 126 ft. over . N. slope.

25.26 N. rim of mesa, brs. E. and W. Leave mountainous and enter level land. Thence over mesa to 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in

the ground, for & sec. cor. of sec. 1 only, marked on brass cap

1920

from which

A pine, 8 ins. in diam., brs. S. 142° W., 82 lks. dist., marked & S 1 BT.

A pine, 6 ins. in diam., brs. N. 27° W., 54 lks. dist., marked & S 1 BT.

Continue over mesa, thru dense timber and undergrowth.

45.23 Set an iron post, 3 ft. long, 1 in. diam., 16 ins. in the ground to bed rock, supported in a mound of stone, for \$\frac{1}{4}\$ sec. cor. of sec. 6 only, marked on brass cap

1920 S 6

from which

A pine, 6 ins. in diam., brs. N. 454° E., 82 lks.

dist., marked \$\frac{1}{4}\$ \$ 6 BT.

A pine, 6 ins. in diam., brs. S. 825° E., 33 lks.

dist., marked \$\frac{1}{4}\$ \$ 6 BT.

Continue over level top of mesa.

South rim of mesa, brs. NE. and SW. Leave level, and enter mountainous land. Descend 40 ft., over SE. slope.

54.45 Gulch, course NE. Ascend 47 ft., over NW. slope.

60.23 North rim of mesa, brs. NE. and SW. Leave mountainous

North rim of mesa, brs. NE. and SW. Leave mountainous land, and enter level land. Thence over mesa, to Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. l and 12 only, mark-

ed on brass cap

T 18 N S 1 S 12 R 7 W 1920

from which

A juniper, 14 ins. in diam., brs. S. 28½° W., 105

lks. dist., marked T 18 N R 7 W S 12 BT.

A juniper, 25 ins. in diam., brs. N. 21½° W., 104

lks. dist., marked T 18 N R 7 W S 1 BT.

At 2.63 chs. S. of this cor., wire fence, brs. N. 20° W. and S. 20° E.

the E.bdy.of fracl. T.18 N. R.7 Chains

The closing cor. of secs. 6 and 7, T.18 N., R.6 W., is established at 5.23 chs. S. of this cor. as described in Book "E."

Land, mountainous and level.

Soil, rocky, 4th rate.
Timber, dense pine, cedar and juniper.
Undergrowth, dense oak brush, catclaw and greasewood.
Good grass.

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BOOK 3492 Resurvey of a portion of the Boundary of Luis Maria Baca Float No. 3, (East line). Chains. The boundary of the Luis Maria Baca Float No.5 was surveyed by G. Burton Foster, U.S.D.S. in 1877. The portion of fractional T.18 N., R. 7 W., surveyed under Group 104, is bounded on the westl. by the 21st and 22nd miles of said Float Bdy. The 21st mile was retraced by David W.Eaton, U.S.T. in 1918, and no other retracement or resurvey of said mile is of record. There is no record of any retracement or resurvey of the 22nd mile. Retracement for Resurvey. From the original 21 mile monument, hereinafter described S.2°03'W., as per Laton's record of retracement, on random line on 21st mile of Float boundary.

Fall 8 lks.W.of the closing cor.of fracl.Ts.18 and 19 N., R.7 W., hereinafter described. True course and dist. of line back to 21 mile mon. are therefore N.1° 53' E., 25.70 chs. Continue line and measurement. Fall 23 lks.W. of the original 22 mile monument hereinafter described. True course and dist. of line back to 21 mile mon. are therefore N.1° 53' E., 79.51 chs. Thence S.1°53'W., as per course developed by retracement described above, on random line, on 22nd mile of Float boundary. 79.07 Fall 7 lks.W. of the original 23 mile monument, here inafter described. True course and dist. of line back to 22 mile mon.are therefore N.1° 50' E.,79.07 chs. Resurvey. The original 23 mile monument is a wood post, 3 ins.square marked BLV 23M on W. face, and firmly set in a mound of earth. No accessories. ongside old post, set an iron post, 3 ft.long,2 ins. in diam.,18 ins.in the ground, to bed rock, supported in a mound of stone for 23 mile monument. Alongside \_\_\_ marked on brass cap, LMBF No.5 23 M 1920 which,
A pine, 6 ins. diam., brs., S.372°W., 31 lks.
dist., marked L M B r No.5 23 M BT.
A cedar, 10 ins. diam., brs., N.704°W., 47 lks.
dist., marked L M B r No.5 23 M B T. from which, Thence,

N.1° 50' E., on a true line, on 22nd mile of Baca Float

Over mountainous land, thru, demse timber and undergrowth Descend 180 ft., over NE. slope.

Gulch, course NW. Ascend 175 ft., over SW.slope.

Spur, slopes W. Descend 215 ft., over NW.slope.

Gulch, course W. Ascend 110 ft., over SW.slope.

Spur, slopes W. Descend 30 ft. over NW.slope.

Spur, slopes W. Descend 30 ft. over NW.slope, to

Intersect closing cor. of secs.l and 12, hereinafter described, at head of gulch, course NE.

Continue line and measurement. Ascend 215 ft., over S. slope.

•	7
Chains.	
69.40	S. rim of mesa, bears E. and W. Leave mountainous and en- ter level land.
79.07	Thence over mesa, thru. dense timber and undergrowth.  Intersect the original 22 mile monument, which is a wood post, 3 ins. square, marked BLV. 22M on W.face, firmly set in mound of earth and stone, and witnessed by the
• (	original bearing tree, a pine 25 ins.in diam., N.30°E. 50 lks.dist., marked BEV 22MBT. This tree being dead, establish new bearing tree as follows:
	An oak, 22 ins.diam, brs. S.72° W., 30 lks. dist., marked LMBF No.5 22 M BT. Land, mountainous and level.
	Soil, rocky, 4th rate. Timber, dense pine, cedar and juniper. Undergrowth, dense oak brush, catclaw and greasewood.
	Good grass.
•	A: 1
	From 22 mile, monument, N.1° 53' E.on a true line on 21st mile of Baca Flat bdy. Over mountainous land, thru. dense timber and undergrowth across top of mesa.
	N. rim of mesa, brs. E. and W. Leave level and enter mountainous land. Descend 110 ft. over N. slope.
20.90	Gulch, course NW. Ascend 107 ft., over SW.slope. Spur, slopes NW. Descend 115 ft., over NE.slope. Gulch, course NW. Ascend 131 ft., over SW.slope, to
	Rim of mesa, brs. NW. and SE. Leave mountainous land and enter rolling land on top of mesa.
55.81	Intersect the original closing cor.of fracl. Ts.18 and 19 N., R.7 W., which is an iron post 3 ins. in diam., projecting 12 ins. above ground, firmly set, properly marked on brass cap, and witnessed by a mound of stone E. of cor., and a pine, 20 ins. in diam., S.54°E., 38 lks.dist., marked properly.  Continue line and measurement.  Over rolling land on top of mesa, bearing NW. and SE.
	Rim of mesa, brs. NW. and Sh. Leave rolling and enter mountainous land. Descend 70 ft. over NE. slope.
	Gulch, course W. Ascend 80 ft., over SW.slope, to Intersect the original 21 mile monument, which is a lime- stone 12x12x4 ins. above ground, firmly set, marked BLV21M on W.face, and witnessed by a pine tree, 12 ins. in diam., N.o°W., 81 lks.dist., marked BLV 21M3T. Land, level, mountainous and rolling. Soil, rocky, 4th rate.
	Timber, dense, pine, cedar and juniper. Undergrowth dense brush, catclaw and greasewood. Good grass.
•	

Survey of a portion of Subdivision lines of fract. T.18 N.R.7 Chains. From the cor. of secs. 1 and 12, on E. bdy. of Tp., hereinbefore described, West, on a true line, bet.secs.l and 12. Over level land, on top of mesa, thru. dense timber and undergrowth. 3.00 Fence, brs. SE. and NW. .18.40 W. rime of mesa, brs.N. and S. Leave level and enter mountainous land. Descend 285 ft., over W.slope, to closing cor. Fence, brs.N. and S. 28.00 31.05 Intersect the E. line of the bdy of the Luis Maria Baca Float No.5, which forms the W.bdy of this fractional Tp., at a point 20.23 chs. S.1°50'W., from 22 mile monument, hereinbefore described.

At point of intersection, set an iron post, 3 ft.long, 2 ins. in diam., 16 ins. in the ground to bed rock, supported in a mound of stone, for closing cor. of secs.1 and 12, marked on brass cap, TISN LMBF S 1 No.5 S12 \_ R7W 1920 from which. A pinyon, 10 ins. in diam., brs. N.51°E., 12 lks. dist., marked T18N R7W S 1 00 BT.

A pinyon, 8 ins. in diam., brs. S.55°E., 26 lks. dist. marked T18N R7W S12 CC BT. Land, level and mountainous. Soil, rocky, 4th rate. Timber, dense pinem cedar and juniper. Undergrowth, dense oak brush, catclaw and greasewood. Good grass. The continued satisfactory adjustment of the solar apparatus during the resurveyed portion of the lines before described, is indicated from field tests described in Book "G" of this group. Boundaries of fracl. Sec. 1, Fracl. T. 18 N., R. 7 W. Latitudes, Departures and Closing Errors.

					•		
		Dist.	The second secon	udes.	Departures.		
	•	course.		N.	S.	E.	W.
Subdivis line		West,	31.05				31.05
West bd	y.of Tp., Luis Maria	N.1°50'E.	26.23	26.22		.84	
Baca Fl	oat No.5)	N.1°53'E.	53.81	53. 78		1.77	
North b	dy.of Tp.,	East,	28 <b>.63</b>			28.63	
East bd	y.of Tp.,	South,	80.00	20.0	80.00		<del> </del>
Converg	ency,					.01	
	Total	8.	The same of the sa	80.00	80.00	31.25	31.05
				80.00		31.05	
		r in latit r in depar		.00		.20	

#### GENERAL DESCRIPTION.

This township is remdered fractional by conflict with the Luis Maria Baca Float No.5. The portion of this township subdivided under this group, as described in the foregoing notes, consists of level mesas, separated by broken mountainous land in the gulches. A dense growth of pine, cedar and juniper timber, and a dense undergrowth of buck brush, catclaw and greasewood covers the surveyed area. The soil is rocky,4th rate, but supports a good growth of grass, suitable for grazing. There is no permanent running water. There are no signs of valuable mineral deposits. There are no settlers. A fence is the only improvement. No road traverses this part of the township.

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### FIELD ASSISTANTS.

to Otis Ross.	U. S. Surveyor,
NAMES.	CAPACITY.
See Book "A"	
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## 12 CERTIFICATE OF UNITED STATES SURVEYOR.

I, Otis Ross	
of special instructions received from th	ne U. S. Surveyor General for Group 104, Arizona,
bearing date of thedth d	ay of October , 191 9, I have well, faithfully, and truly
in my own proper person, and in strice	et conformity with said instructions, the Manual of Surveying Instruc-
tions, and the laws of the United State	re- es, surveyed all those parts or portions of _the East_boundary_of
the Luis Maria Baca Float No.	5, and surveyed all those parts or portions of the
the East boundary, and Subdivi	ision lines of
Fractional Townshi	ip 18 North, Range 7 West,
	of the Gila and Salt River
Base and Meridian, in t	he State of _Arizons, which are represented in
	on page 2 hereof on executed by me, and under my direction; and that all the corners of
resurvey and	perpetuated in strict accordance with the Manual of Surveying Instruc-
•	ions of the U.S. Surveyor General, for _Group_104, Arizona,
· ·	in the field notes, and that the foregoing are the original field notes of
such survey. August Alaska	
Place Juneau, aluska Date Nov 29 1921	U. S. Surveyor.
Date 100 22	
	APPROVAL.
	OFFICE OF THE UNITED STATES SURVEYOR GENERAL,
•	Phoenix Aciz. December 101921
The foregoing field notes of the st	urvey of part of the East boundary of the Luis Maria Baca
	of the survey of part of the East boundary, and part of
the Subdivision lines of	
Fract	ional Township 18 North, Range 7 West,
of the	Gila and Salt River Base and Meridian,
	in the State of Arizona.
	• • • • • • • • • • • • • • • • • • •
	urveyor,
·	October 15,1919 for Group 104., having been
critically examined, and the necessary	corrections and explanations made, the said field notes, and the surveys
they describe, are hereby approved.	Others ( Dott 1)
	U. S. Surveyor General.
Leartify that the foregoing transc	ript of the field-notes of the above-described-surveys in
, he	as been correctly copied from the original notes on file in this office.