Book "D"

BOOK 3584

FIELD NOTES

OF THE RETRACEMENT OF

		the SURVEY of		
Part of the	Subdivis ion	lines of		
	томи	SHIP 4 SOUTH,R	ANGE 26 EAST	
	bing triggrages			
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		· 		
				:
		EXECUTED	BY	
	Benjam	in J.Kinsey,	U.S.Transitma	a .
	•			
		·		
		•		
n the capacity of	U.S.Surveyor_	, under Special Ii	nstructions dated	Augusti 24, , i
ssued by the Un	ited States S	Surveyor General i	to govern survey	s included in G
, M	,, which wer	re approved by the	e Commissioner	of the General
Vo. 111, Arizona				
	18 , 19 2 0 , a	nd Assignment In	structions dated.	Nov. 17 , 18

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BOOK 3584

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Book "D"

Group III - Arizona.

INDEX DIAGRAM.

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		6	5	4	3	2	11011	
		7	8	9	10	211 REST	12 D.J.	
		18	17	16 T.45	15 JT R. 26 E.	D1F11	18	
		19	20	7.45.	A111	28	24	
		30 Š~ &	29 711	28	27	26	25	
_			3 89 60	88	34	35	36	
					•		-	

Lines surveyed under this group.

Lines retraced under this group.

_____ Accepted surveys.

---- Unsurveyed.

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Book "D"

Group III, Arizona.

DATE DIAGRAM.

Township 4 South, Range 26 Bast (that portion outside the White Mt. Ind. Res.)

Solid black lines on above diagram indicate surveys executed by Benjamin J.Kinsey, U.S. Transitman, as shown on dates thereon.

Dotted black lines on above diagram indicate retracements executed by Benjamin J.Kinsey, U.S. Transitman, on dates shown thereon.

- Retracement and survey, hereinafter described, executed by Benjamin J. Kinsey, U.S. Transitman, on dates shown on diagram on page 1 hereof, using Young and Sons light mountain transit No. 8477. The instrument is equipped with full vertical circle, and the Smith solar attachment. Unless otherwise specified, all azimuth determinations are accomplished with the solar attachment.
- I examine the adjustment 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, I proceed as follows:
- January 1, 1921: At camp, near the cor. of secs. 10, 11, 14 and 15, T.5 S., R.25 E., Gila and Salt River Base and Meridian, Arizona, in latitude 33°00'N.; long, 109°45'W., using the meridian established December 23,1920, as described in Book "B," at 9h. 0m., a.m., l.m.t., I set off 33°00'N. on the lat.arc; 22°58½'S. on the declarc, and determine a meridian with the solar, which agrees with the true meridian.
- At apparent noon, with the lat. are unchanged, I observe the sun on the meridian; the resulting reading of the decl. arc is 22°58½'S., which agrees with the computed decl. of the sun.
- At 3h.00m.p.m.,l.m.t., with the lat.arc unchanged, I set off 22°57'S., on the decl.arc; and determine a meridian with the solar, which agrees with the true meridian.
- As all of the solar observations made during the usual hours of solar work come within 1'30" of the true meridian, I conclude that the adjustment of the instrument is satisfactory.
- 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 with clinometer, and the slope measurements properly reduced to true horizontal distances.

	of part of Subdivision lines of 7.4 S., R. 26 3. 3
Chains.	
7	From the cor. of secs. 5,6, 31 and 32, on the S.bdy. of the Tp., described, in Book "A,"
-	N.0°3' W., bet. secs. 31 and 32. Over mountainous land, thru.dense undergrowth.
9.00	Ascend 185 ft., over SE.slope. Ridge, brs.NE. and SW. Thence along W.slope, descending 30
14.55	Ascend 50 ft., over SW. slope.
26.00	Same ridge, brs. NW. and SE. Descend 80 ft., over NE. slope.
31.85 36.85	Ascend 35 ft., over A. slope, to Descend 55 ft., over NE. slope, to
40.00	Set an iron post, 3 ft.long, 1 in. in diam., 16 ins.in the ground to bed rock, supported by a mound of stone, for \(\frac{1}{2}\) sec.cor., marked on brass cap,
	\$311,832c
	\$31\sqrt{\$32\cdot\$} 1921
	and raise a mound of stone, 3 ft. base, 2 ft.high, W. of
	cor. Descend 20 ft., over N.E. slope.
40.75	Head of gulch, course 1. Ascend 169 ft., over SE. slope, to
52.00 55.23	Old road, brs. N. 40° L. and S. 40° W., Pima to Bonita Creek. Main ridge of the Gila Mountains, brs. NE and SW. Inter-
	sect the South bdy.of the White Mountain Indian Reservation, 4.31 chs. S.45°W., from the 59 mile mon.
	thereon, which is an iron post, 3 ins.in diam.,pro- jecting 20 ins. above ground, firmly set in ground, and
	mound of stone, properly marked on brass cap, and wit- nessed by a mound of stone, NW. of post.
	No bearing trees. At the point of intersection,
	Set an iron post, 3 ft.long, 1 in. in diam., 10 ins. in the ground to bed rock, supported by a mound of stone,
	for closing cor. of secs. 31 and 32, marked on brass cap,
in the state of th	WMIR
	\$31 S32 T4S R262
	0 C C 1921
1.	and raise a mound of stone, 3 ft.base, 2 ft.high, S.
	of cor. Land, mountainous and or
3	Soil, rocky, 4th rate. Timber, none.
	Undergrowth, dense greasewood, scrub oak, ocotillo and other cacti.

BCOK 3584

Retracement of part of South boundary of the White Mountain Indian Reservation (58 mile mon. to 58 mile

chains.

The South bdy, of the White Mountain Indian Reservation, thru. T. 4 S., R. 26 E. was surveyed in July, 1883, by Paul Riecker, U.S. Deputy Surveyor, and was resurveyed in October, 1915, by H. L. Baldwin, U.S. Topographer.

The 58 mile mon. on the South ody. of the White Mountain Indian Reservation is an iron post, 3 ins. in diam.; projecting 20 ins. above ground, firmly set in ground and mound of stone, properly marked on brass cap, and witnessed by a mound of stone, NE. of post. No bearing trees.

Thence.
S. 38½° A. 5.00 chs.
S. 21¾° A. 10.00 chs.
S. 9½° W. 5.00 chs.
S. 18½° W. 9.90 chs.

S.14 W., 9.40 chs.

S.561° Z., 0.70 cns. To the 58½ mile mon., which is an iron post, 1 in. in diam., projecting 20 ins. above ground, firmly set in ground and mound of stone, properly marked on brass cap, and witnessed by two properly marked bearing trees as follows:

A cedar, N. 65% °W., 174 fks. dist.
A juniper limb, S. 80% °R., 146 lks. dist.
Land, mountainous. Soil, rocky, 4th rate. Timber, scattering cedar and juniper. Undergrowth, dense serub oak, catclaw and cacti.

Boundaries of that part of T.4 S., R. 26 E., surveyed under Group No.111 (outside the W.M.I.R.)

Latitudes, departures, and closing errors.

			• • • • • • • • • • • • • • • • • • • •				
Line des	ignated.	True	Dist.	Latitudes.		Departures.	
		bearing.		N.	l S.		W.
South bo	undary,	West,	157.73				157.73
West bou	ndary,	North,	77.65	77.65			
South bd W.M.I.	y.of R.	Yarious,	Various	37.61	115.76	162.09	4.15
Co'nverge	ncy,	,				.02	
rotals.	•		Č.	115.26	115.76	162.11	161.88
					115:26	161.88	
	ER	ROR IN LATE	TUDE.	mare and the same such states on the same of the same	0.50	Serge on the service of the service	The second secon
	BRI	ROR IN DEPA	RTURE.			0.23	

The continued satisfactory adjustment of the solar appatatus during the survey of this township is indicated from field tests, as described in Book "R."

GENERAL DESCRIPTION.

The portion of Township 4 South, Range 26 East, surveyed under the instructions for Group III, Arizona, inecludes all of the land in said township lying outside the White Mountain Indian Reservation. The surface is mountainous, sloping S. and SW. from the Reservation bdy., which follows the main ridge of the Gila Mountains, thru.

secs. 30, 31 and 32.

The soil is rocky, 4th rate.

There is a scattering growth of cedar and juniper

timber, and a dense undergrowth of scrub oak, greasewood, catclaw, ocotillo and other cacti.

There is no permanent running water, and no evidence of waluable mineral deposits.

There are no settlers or improvements.

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4—680

FIELD ASSISTANTS. to

Benjamin J. Kinsey.	U. S. Pransitman.			
NAMES.	CAPACITY.			
John B. McClung.	1st chainman,			
Sterling Everett.	2nd chainman.			
John Boggs.	cornerman,			
John L. Berry.	axman,			
William M. Baldwin,	flagman.			
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6-2764

BOOK 3584

CERTIFICATE OF UNITED STATES THANSITMAN.

I, Benjamin J. Kinsey, U.S. Trans Ctmanquer, hereby certify upon honor that, in pursuance
of special instructions received from the U.S. Surveyor General, for Group 111, Arizona,
bearing date of the 24th day of August, 19 20, I have well, faithfully, and truly
in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instruc-
tions, and the laws of the United States, attraced all those parts or portions ofthe
South boundary of the White Mountain Indian Reservation, and
Surveyed all'those parts or portions of the
Subdivision linesof
TOWNSHIP 4 SOUTH, RANGE 26 EAST,
of the Gila and Salt
River Base & 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 retracement
and survey have been established and perpetuated in strict accordance with the Manual of Surveying Instruc-
tions, and the special written instructions of the U.S. Surveyor General, for Group 111, Arizona,
and in the specific manner described in the field notes, and that the foregoing are the original field notes of
such metracement and survey.
Place: Mouni, Origona. Benjamin J. Miney U.S. Transittan Surveyor.
Date: May-17th 1903. APPROVAL.
Office of the United States Surveyor General,
Phoenix, Arizona, JUN 7, 1923.
The foregoing field notes of the wetracement of part of the
South boundary of the White Mountain Indian Reservation, and the
survey of part of the
Subdivision lines of
TOWNSHIP 4 SOUTH, RANCE 26 EAST,
of the Gila and Salt River Base and Meridian, in the State of Arizona,
executed byBenjamin J. Kinsey, U. S. Transitman,
under his special instructions dated August 24, 1920 for Group 111, Arizona, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the retracement and survey they describe, are hereby approved.
Frank Strath
U. S. Surveyor General.
Learning that the foregoing transprint of the field notes of the shows described asserted asserted
I certify that the foregoing transcript of the field notes of the above described surveys in