UNITED STATES DEPARTMENT OF THE INTERIOR GENERAL LAND OFFICE

BOOK 4242

FIELD NOTES

OF THE SURVEY OF

	The NORTH BOUNDARY
	and
************	SUBDIVISIONAL LINES of
	Fractional Township 18 South, Range 6 West
	and of Connections from said lines
*	to Monument No.168 on the
	International Boundary between Mexico and United States

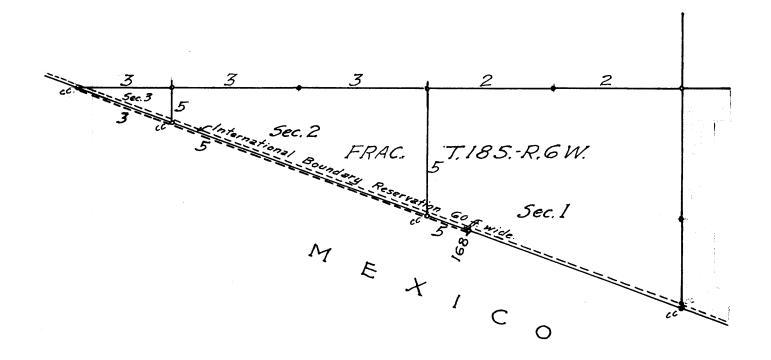
	Of the Gila and Salt River Meridian,
In the	State ofARIZONA
:	EXECUTED BY
	Benjamin J. Kinsey
	Cadastral Engineer
Under	special instructions dated January 9, 1940, which provided
for th	e surveys included under Group No.230, Arizon, bearing the approval of the
Comm	issioner of the General Land Office under date of January 16, 1940
and as	signment instructions dated <u>November 6</u> , 19 39
	Survey commenced March 15, 1940
:	Survey completed March 18 , 1940

INDEX DIAGRAM.

Township		, Range				
8	5	4	3 3	2	1	
7	8	9	10	11	12	
18	17	16	15	14	18	
19	20	21	22	28	24	
80	29	28	27	26	25	
81	32	33	34	35	36	
	<u> </u>	 	6—151		<u> </u>	

~INDEX · DIAGRAM~

BOOK 4242



_____ Lines of accepted surveys.

_____ Lines surveyed under this group.

----- Connections surveyed under this group.

Areas surveyed as per accepted plats on file.

The surveys herein described were executed by Benjamin J. Kinsey, Cadastral Engineer, using Buff transit No.18000. This instrument is equipped with an improved Smith solar attachment, and otherwise conforms to the standard specifications of the General Land Office. The instrument was examined and tested by the District Cadastral Engineer for Arizona and California prior to the beginning of the surveys of this group, and was approved conditional upon satisfactory results of field tests of same.

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The azimuths of all of the lines of survey herein described were determined with the solar attachment.

All measurements were made with a Lufkin steel tape, 5 chs in length, graduated every link for the first 100 lks., and the remainder at intervals of 10 lks. The tape was tested by comparison with a Lufkin standard tape and found correct. All of the measurements were made on the slope, the vertical angle of each interval determined with a clinometer in good adjustment, and the horizontal equivalents entered in the field notes.

PRELIMINARY FIELD TEST OF INSTRUMENT.

March 10, 1940; at station in camp, about 30 chs. NW. from the cor. of secs.19,24,25 and 30, Ts.17 S.,Rs.5 and 6 W., G. & S.R. meridian, Arizona; latitude 31°56'N., and longitude 112°50'W.; examine the adjustments of Buff transit No.13000 and find no errors. Then, to test the workings of the solar apparatus, proceed as follows:

At 8h. 24m., p.m., l.m.t., observe Polaris at western elongation, making four observations, two each with the telescope in direct and reversed positions, and marking the mean point in the line thus determined by a tack in top of a stake driven firmly in the ground about 5 chs. N.

Azimuth of Polaris at western elongation = 1°12'

March 11, 1940; at 7h. 00m.,a.m., lay off the azimuth of Polaris 1°12'to the east and mark a point in the true meridian thus determined by a tack in top of a stake driven firmly in the ground about 5 chs. N.

At 9h. 00m., a.m., app. t., set off 31°56'N. on the latitude arc; 3°34'S. on the declination arc; and determine a meridian with the solar, which agrees with the true meridian.

At app. noon, with the latitude arc unchanged; observe the sun on the meridian and obtain a reading of 3°31'S. on the declination arc, which agrees with the computed declination of the sun.

At 3h. 00m.,p.m., app. t., with the latitude arc unchanged; set off 3°23'S. on the declination 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, conclude that this instrument is in satisfactory adjustment on this date, which is prior to the beginning of the surveys herein described.

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Survey: North boundary of Fractional T.18 S., R.6 W.

2)	·		
E.	chains .	The cor. of Ts.17 and 18 S., Rs.5 and 6 W., established in 1931, is an iron post, 3 ins. in diam., firmly set, projecting 12 ins. above ground, marked on brass cap and witnessed as described in the official record.	
		Thence	
		West, bet. secs. 1 and 36.	
		Over gently rolling and nearly level land, thru scattering timber and undergrowth.	
	2.00	Wash, 20 lks. wide, course S.20°W.	
e :	15.20	Road, bears N.20°E. and S.10°W.; extends southerly to Dowling Ranch, and northerly to the Victoria Mine road.	
	26.90	Road, bears N.10°E. and S.10°W.; same connections as the above described road.	
	28.70	Wash, 20 lks. wide, course S.20°W.	
	40.00	Set an iron post, 3 ft. long, 1 in. in diam., 28 ins. in the ground, for 4 sec. cor., with brass cap marked	
e e		\$ 36 \$ 1	
		1940	
		No bearing trees available.	
		Raise a mound of stone, $3\frac{1}{2}$ ft. base, $2\frac{1}{2}$ ft.high, N. of cor.	
	• .	Windmill at the Dowling Ranch bears S.9°03'E. House " " " " S.8°00'E. A hill (a) " N.13°W.	
	43.80	Road, bears N. and S.; extends southerly to Dowling Ranch, and northwesterly to Quitobaquito.	
	44.20	Wash, 20 lks. wide, course S.	
	55.00	Leave gently rolling and nearly level land, and enter heavily rolling and mountainous land. Ascend 270 ft. over E. slope.	
	72.60	Ridge, bears N. and S.; descend 206 ft. over W. and NW. slopes to	
1	80.00	Set an iron post, 3 ft. 10ng, 2 ins. in diam., 12 ins. in the ground to bedrock, with a stone marked with a cross (X) deposited at base, and in a mound of stone to top, for cor. of secs. 1,2,35 and 36, with brass cap marked,	
		T17S R6W S35 S36 S2 S1 T18S 1940	
		No bearing trees available.	
	•	Land, gently rolling, nearly level, heavily rolling,	
••		and mountainous. Soil, sandy, gravelly and rocky, 3rd and 4th rates. Timber, paloverde, mesquite and ironwood. Undergrowth, greasewood, catclaw and cacti.	
	1		

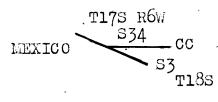
.Survey: North boundary of Fractional T.18 S., R.6 W.

		4
	chains	West, bet. secs. 2 and 35.
•		Over mountainous land, thru scattering timber and undergrowth.
		Descend 13 ft. over NW. slope.
	0.80	Foot of slope, bears NE. and SW. Leave mountainous, and enter gently rolling and nearly level land.
	12.50	Wash, 20 lks. wide, course SW.
	30.00	Wash, 40 lks. wide, course SW.
	40.00	Set an iron post, 3 ft. long, 1 in. in diam., 20 ins. in ground to bedrock, with a stone marked with a cross (X) deposited at base, and in a mound of stone to top, for \$\frac{1}{4}\$ sec. cor., with brass cap marked
		s 35 s 2
		1940
	:	
	1	No bearing trees available.
		A hill (a) noted at \(\frac{1}{4} \) sec.cor. of secs.l and 36 on this Tp. bdy., bears N.25°E.
	49.70	Road, bears NE. and SW.
	50.10	Wash, 70 lks. wide, course SW.
	57.20	Road, bears NE. and SW.
	80.00	Set an iron post, 3 ft. long, 2 ins. in diam., 27 ins. in the ground, for cor. of secs. 2,3,34 and 35, with brass cap marked
		T17S R6W S34 S35 S3 S2 T18S
		1940
		No bearing trees available.
	1	Raise a mound of stone, 3 ft.base, 2 ft.high, W.of cor.
		Land, mountainous, gently rolling and nearly level. Soil, sandy, gravelly and rocky, 3rd and 4th rates. Timber, paloverde, mesquite and ironwood. Undergrowth, greasewood, catclaw and cacti.
	<u> </u>	
		West, bet. frac. secs. 3 and 34.
	:	Over nearly level land, thru scattering timber and undergrowth.
	3.00	Wash, 40 lks. wide, course SW.
	7.70	Road, bears NW. and SE.
	29.48	Intersect the International Boundary Line between Mexico and the United States at a point 129.35 chs. N.70°20'W. from Monument No.168 thereon. Flag on Mon.No.169 is visible and bears N.70°20'W. from this point.

.Survey: North boundary of Fractional T.18 S., R.6 W.

4

chains At point of intersection, set an iron post, 3 ft. long, 3 ins. in diam., 27 ins. in the ground, for closing cor. of Frac. Ts.17 and 18 S., R.6 W., with brass cap marked



1940

No bearing trees available.

Raise a mound of stone, 3 ft.base, 2 ft. high, E.of cor.

Land, nearly level.
Soil, gravelly, 3rd rate.
Timber, paloverde, mesquite and ironwood.
Undergrowth, greasewood, sagebrush, catclaw and cacti.

chains

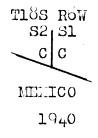
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From the cor. of secs. 1,2,35 and 36, on the N. bdy. of the Tp., hereinbefore described,

S. 0°01' E., bet. secs. 1 and 2.

Over mountainous and heavily rolling land, thru scattering timber and undergrowth. Ascend 349 ft. over broken NW. slope.

- 30.00 Spur, slopes W. from ridge bearing N. and S. about 10 chs. L. of this point. Descend 101 ft. over SW. slope to
- 39.02 Intersect the International Boundary Line between Mexico and the United States at a point 13.22 chs. N.70°20'W. from Monument No.108 thereon. Flag on Mon.No.169 is visible and bears N.70°20'W. from this point.
 - At point of intersection, set an iron post, 3 ft. long, 2 ins. in diam., over a cross (X) chiseled on exposed surface rock, and in a mound of stone to top, for closing cor. of secs. 1 and 2, with brass cap marked



No bearing trees available.

Land, mountainous and heavily rolling. Soil, rocky, 4th rate. Timber, paloverde, ironwood and mesquite. Undergrowth, greasewood, catclaw and cacti.

From the cor. of secs. 2,3,34 and 35, on the N. bay. of the Tp., hereinbefore described,

S. $0^{\circ}01'$ E., bet. secs. 2 and 3.

Over nearly level land, thru scattering timber and undergrowth.

Intersect the International Boundary Line between Mexico and the United States at a point 98.06 chs. N.70°20'W. from Monument No.168 thereon, and 31.29 chs. S.70°20'E. from the closing cor. of Frac.Ts.17 and 18 S.,R.6 W., hereight force described to flor on Monument No.169 is hereinbefore described. A flag on Honument N visible and bears N.70°20'W. from this point. A flag on Monument No.109 is

At point of intersection, set an iron post, 3 ft. long, 2 ins. in diam., 27 ins. in the ground, for closing cor. of secs. 2 and 3, with brass cap marked

TIOS ROW S3 S2 LEETCO 1940

No bearing trees available.

Raise a mound of stone, 3 ft.base, 2 ft.high, N. of cor.

6

chains

Land, nearly level.
Soil, sandy and gravelly, 3rd rate.

Timber, paloverde, ironwood and nesquite.

Undergrowth, greasewood, sagebrush, catclaw and cacti.

FINAL FIELD TEST of INSTRUMENT.

The continued satisfactory adjustment of Buff & Buff transit No.18000 throughout the surveys described in the foregoing field notes is indicated by the preliminary field test of same described in the field notes of the survey of: West bdrs. of Ts.16 & 17 S.,R.5 W.; West bdy. of T.16 S.,R.8 W.; West bdy. of Frac.T.17 S.,R.8 W.; War of South bdy. of T.16 S.,R.8 W.; Part of Sub. lines of T.16 S.,R.8 W.; and Part of Sub.lines of Frac.T.17 S. R.8 W.; all in Book "C" of this group.

GENERAL DESCRIPTION.

This fractional township, adjoining the International Boundary between Mexico and the United States, about 33 miles due south from Ajo, Arizona, and about one mile west from the highway between Ajo, Arizona, and Sonoita, Mexico, has a nearly level and gently rolling surface, with the exception of an area in the western part of section 1, and eastern part of section 2, where a ridge of the Sonoita Mountains extends northerly and southerly, and the surface is mountainous and heavily rolling. The elevation of the greater part of the township is about 1400 feet above sea level, and the top of the ridge reaches an elevation of nearly 1800 feet where it crosses the International Boundary.

The soil of the greater part of the area is sandy and gravelly, 3rd rate. In the mountainous and heavily rolling

land the soil is rocky, 4th rate.

The timber is scattering and consists of paloverde, mesquite and ironwood. The organ pipe cactus, of the sahuaro species, is prevalent in the township.

Over nearly all of the township is scattering undergrowth of greasewood, sagebrush, catclaw and cacti.

There are no flowing streams or springs, but a well has been dug in section 1 at what is known as the Dowling Ranch, and a windmill pumps water from this well into a reservoir for stock watering.

There is no evidence of valuable mineral deposits at any

point in the township.

The only settlement and improvements are those of the Dowling Ranch in section 1, consisting of well, windmill, reservoir, adobe house, corrals, and a large fenced pasture.

There are no improved roads in the township, but there are several unimproved roads. Those to the east of the mountains all lead to the Dowling Ranch.

The land is suitable for grazing only.

UNITED STATES DEPARTMENT OF THE INTERIOR GENERAL LAND OFFICE

FIELD ASSISTANTS

NAMES CAPACITY Irwin B. Williams, Frincipal assistant. Jack Williams, Chainman. Amos R. Roten, Cornerman. Wesley B. Farley, .xeman. Flagman, Rob N. Traylor,

6-8412

CERTIFICATE OF SURVEYOR

I, Benjamin J. Kinsey, Cadastral Engineer, HEREBY CERTIFY upon honor that, in
pursuance of special instructions bearing date of the 9th day of January ,1940,
received from the district cadastral engineer for Arizona, with assignment
instructions dated November 6, 1939, I have surveyed The North boundary and the
Subdivisionallines of Fractional Township 18 South, Range 6 West, and
connections from said lines to Monument No. 168 on the International
Boundary between Mexico and the United States;
of the Gila and Salt River Meridian, in the State of Arizana, which are
represented in the foregoing field notes as having been executed by me and under my direction; and that said 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 November 4, 1941. Cadastral Engineer
November 4, 1941. Cadastral Engineer
CERTIFICATE OF APPROVAL
Office of Supervisor of Surveys,
Denver, Colorado, January 24, 1948
The foregoing field notes of the survey of the North boundary and the Subdivisional
lines of Fractional Township 18 South, Range 6 West, and of connections
from said lines to Monument No. 168 on the International Boundary between
Mexico & the United States; Gila&Salt River Meridian, State of Arizona.
executed by Benjamin J. Kinsey, Cadastral Engineer oupplemental under special instructions dated Sanuary 9, 1940, for Group 230, Arizona, and assignment
instructions dated November 6, 1939 , having been critically examined, and
the necessary corrections made prior to their certification by the engineer, the said field notes, and the survey
therein described, are hereby approved. Supervisor of Surveys.
-OERTIFICATE OF TRANSORIPT
I century 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.