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Book "F"

4-679

BOOK 3800

# FIELD NOTES

OF THE SURVEY OF THE

the SUBDIVISION LINES of

Fractional Township 24 South, Range 11 East

Of the Gila and Salt River Base and Meridian,

In the State of Arizona.

EXECUTED BY

Wm. B. Kimmel, U.S. Cadastral Engineer

and

Claude F. Warner, U.S. Transitman

In the capacity of U. S. Surveyors, under Special Instructions dated September 24, 1925, issued by the U.S. District Cadastral Engineer to govern surveys included in Group No. 138 Arizona, which were approved by the Commissioner of the General Land Office, October 14, 1925, and Assignment Instructions dated November 2, 1925

Survey commenced February 19, 1926

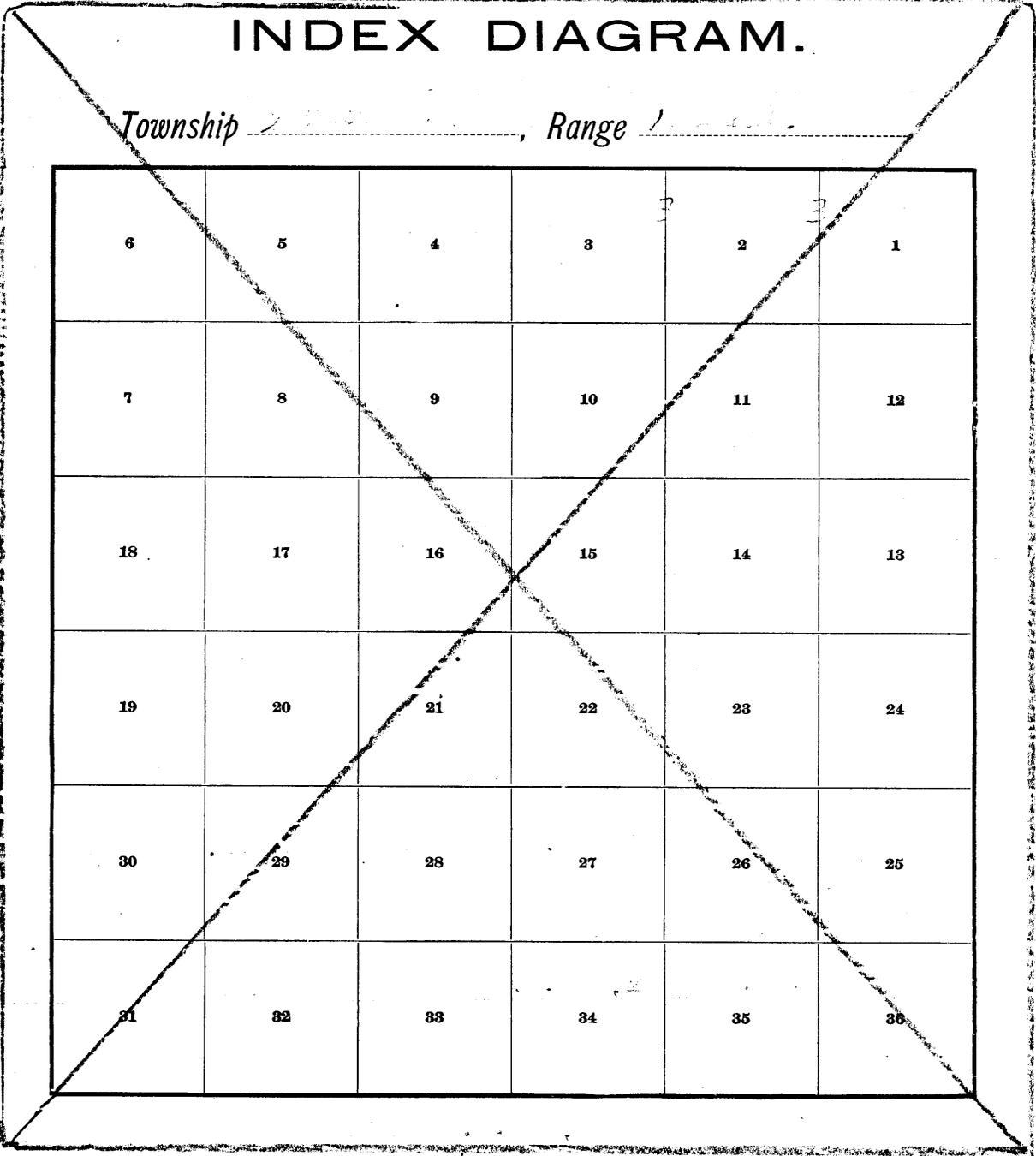
Survey completed February 19, 1926

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# INDEX DIAGRAM.

Township 2 S, Range 1 E





The surveys herein described were executed on dates shown on diagram on page 1 hereof, by Wm. B. Kimmel, U.S. Cadastral Engineer and Claude F. Warner, U.S. Transitman, using respectively, W. & L. E. Gurley transit No. 20120, and Young & Sons transit No. 8292. Both instruments are equipped with full vertical circles and Smith solar attachment. The horizontal limbs are provided with two double verniers placed opposite to each other, reading to 30" of arc on the Gurley transit, and 1' of arc on the Young & Sons. The verniers of the vertical circles and of the solar attachments read to 1' of arc. Unless otherwise specified, all azimuth determinations were accomplished with solar attachment.

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 Preliminary Field Test of Instruments.  
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February 18, 1926,

On the meridian established by Polaris observation Jan. 16, 1926 as described in Book "C" of this group,

At 8h. 0m., a.m., app. t., set off  $31^{\circ}23'N.$  on the lat. arcs,  $11^{\circ}42\frac{1}{2}'S.$  on the decl. arcs; and determine a meridian with each solar, both of which agree within 1' of arc with the true meridian.

At apparent noon, with the lat. arcs unchanged, observe the sun on the meridian; the resulting reading of each of the decl. arcs is  $11^{\circ}40'S.$ , which agrees with the computed declination of the sun.

At 4h. 0m., p.m., app. t., with the lat. arcs unchanged, set off  $11^{\circ}35\frac{1}{2}'S.$  on the decl. arcs; and determine a meridian with each solar, both of which agree within 1' of arc with the true meridian.

From the results of the above described observations conclude that both transits are in satisfactory adjustment.

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Unless otherwise specified, all measurements are made with Lufkin steel tapes 5 chs. in length, compared with a Lufkin standard steel tape 1 ch. in length, and found correct. The measurements are made on the slope, the vertical angles determined with transit or clinometer, and the slope measurements properly reduced to true horizontal distances for entry in the field notes.

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chains

The cor. of secs. 35 & 36 and frac. secs. 1 & 2, on the N. bdy. of the Tp., established Dec. 30, 1924 under Group No. 133, Ariz., is an iron post, 2 ins. in diam., projecting 10 ins. above ground, firmly set, properly marked on brass cap, and witnessed by four properly marked oak bearing trees, one each NE., SE., SW. and NW. of cor.

Thence,

S. 0° 1' E., on true line, bet. fractional secs. 1 & 2.

Over mountainous land, thru scattering timber and undergrowth.

Ascend 135 ft. over NW. slope.

5.00 Descend 100 ft. over W. slope.

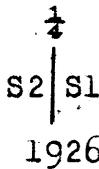
19.50 Draw, course W.

23.10 Draw, course W.

28.80 Draw, course W. Asc. 70 ft. over NW. slope.

34.00 Ridge, bears NW. & SE. Thence over rolling W. slope.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 24 ins. in the ground, for 1/4 sec. cor. of frac. secs. 1 & 2, marked on brass cap



from which

an oak, 6 ins. diam., brs. N. 67° E., 31 lks. dist.,

marked 1/4 S1 BT

an oak, 24 ins. diam., brs. S. 22 1/2° W., 31 lks. dist.,

marked 1/4 S2 BT

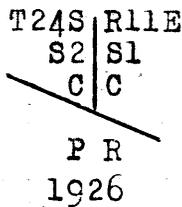
Ascend 60 ft. over NW. slope.

48.00 Point of rocky spur, sloping W. Desc. 38 ft. over SW. slope to closing cor.

48.73 Fence, bears N. 69° W. & S. 69° E.

48.89 Intersect N. bdy. of International Boundary Reserve, 60 ft. wide.

At this point of intersection, set an iron post, 3 ft. long, 2 ins. in diam., 6 ins. in ground to bedrock, deposit a stone marked with a cross (X) at base of post, and raise a mound of stone, 5 ft. base, 2 ft. high, around post, for closing cor. of frac. secs. 1 & 2, marked on brass cap,



No bearing trees available.

Continue line and measurement across the International Boundary Reserve.

Desc. 10 ft. over SW. slope to

49.86 Intersect the U.S.-Mex. International Bdy. Line at a point 52.82 chs. N. 69° 23' W. from Monument No. 130 thereon, which is a cast iron post, 12 ins. square at base, 6 ft. high, 9 ins. square at top, with 130 in raised numerals on one face, and the standard boundary inscription on another face. Post is securely bolted to a concrete foundation.

Land, mountainous.

Soil, rocky, 4th rate.

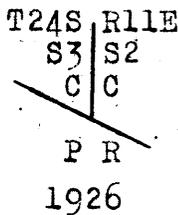
Timber, oak.

Undergrowth, scrub oak & catclaw.

The cor. of sec. 35 and frac. secs. 2, 3 & 34 on the N. bdy. of the Tp., established in Jan. 1925 under Group No. 133 Ariz., is an iron post, 2 ins. in diam., projecting 10 ins. above ground, firmly set, properly marked on brass cap, and witnessed by a mound of stone W. of cor. and one properly marked oak bearing tree NW. of cor.

4 Survey of the Subdivision Lines of Frac.T.24 S.,R.11 E.

chains  
 7.00 Thence,  
 17.40 S.0° 1'E., on true line, bet. fractional secs. 2 and 3.  
 18.74 Over mountainous land, thru scattering timber & under-  
 growth. Asc. 300 ft. over broken cliffy NW. slope.  
 Spur, slopes W. Desc. 200 ft. over broken SW. slope.  
 Draw, course NW. Asc. 25 ft. over rocky N. slope to  
 Intersect N. bdy. of the International Bdy. Reserve, 60 ft.  
 wide.  
 At this point of intersection, set an iron post, 3 ft. long,  
 2 ins. in diam., 6 ins. in ground to bedrock, and raise a  
 mound of stone, 5 ft. base, 2 ft. high around post, for  
 closing cor. of frac. secs. 2 and 3, marked on brass cap,



from which  
 an oak, 12 ins. diam., brs. N. 20° E., 50 lks. dist.,  
 marked T24S R11E S2 CC BT  
 an oak, 16 ins. diam., brs. N. 19° W., 20 lks. dist.,  
 marked T24S R11E S3 CC BT

19.71 Continue line & measurement across International Bdy.  
 Reserve. Asc. 20 ft. over N. slope to  
 Intersect the U.S.-Mex. International Bdy. Line at a point  
 138.44 chs. N. 69° 24' W. from Mon. No. 130 thereon, herein-  
 before described, and 56.18 chs. S. 69° 23' E. from point of  
 intersection of the N. bdy. of the Tp. with the Intern.  
 national Bdy. line, 2.58 chs. West of the closing cor. of  
 Frac. Ts. 23 & 24 S., R. 11 E., established under Group No.  
 133 Ariz., which is an iron post, 3 ins. in diam., project-  
 ing 26 ins. above ground, firmly set in ground and mound  
 of stone, and properly marked on brass cap,

Land, mountainous.  
 Soil, rocky, 4th rate.  
 Timber, oak.  
 Undergrowth, scrub catclaw & oak.

The continued satisfactory adjustment of the transits  
 used in the execution of the surveys described in the  
 foregoing notes, is indicated from field tests of same  
 described in Book "G" of this group.

Boundaries of Fractional Township 24 S., Range 11 E.

Latitudes, Departures & Closing Errors.

Line designated	True Course	Dist.	Latitudes		Departures	
			N.	S.	E.	W.
South Boundary (U.S.-Mex. Int. Bdy. Line)	N. 69° 23' W.	85.73	30.19			80.24
	N. 69° 24' W.	85.62	30.12			80.14
	N. 69° 23' W.	56.18	19.78			52.58
North Boundary	East	212.44		212.44	212.44	
East Boundary	South	79.81		79.81		
Convergency					:02	
Totals			80.09	79.81	212.46	212.96
			79.81			212.46
Error in latitude			0.28			
Error in departure					0.50	

General Description.

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Surface: Mountainous, with an average elevation of 5000 ft. above sea level.

Soil: Rocky, 4th rate.

Timber: Scattering oak, and a few junipers.

Undergrowth: Scattering scrub mesquite, oak, catclaw and a few other varieties.

Mineral: No visible evidence of valuable mineral.

Water: A small spring in gulch near N.bdy. of sec. 2.

Settlement: None.

Improvements: Drift fence along International Bdy.

Industry: Stock grazing periodically.

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CERTIFICATE OF U.S. TRANSIT MANEYOR.

I, Claude F. Warner U.S. Transitman, hereby certify upon honor that, in pursuance of special instructions received from the U.S. District Cadastral Engineer for Group 138, Arizona, bearing date of the 24th day of September, 1925, 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 Connections on the U.S.-Mex. International Boundary Line and the SUBDIVISION LINES of

Fractional Township 24 South, Range 11 East of the Gila and Salt River Base and Meridian, in the State of Arizona, which are represented in the foregoing field notes and by diagram on page 1 hereof 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. District Cadastral Engineer for Group 138, Arizona and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Place: Phoenix, Arizona,
Date: April 13, 1926.

Claude F. Warner
U.S. Transitman

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

10

The foregoing field notes of the survey of

executed by under his special instructions dated, 10, 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 foregoing transcript of the field notes of the above described surveys in has been correctly copied from the original notes on file in this office.

U. S. Surveyor General

UNITED STATES DEPARTMENT OF THE INTERIOR

4-680

FIELD ASSISTANTS.  
TO

William B. Kimmel, U.S. Cadastral Engineer.

NAMES.	CAPACITY.
Leroy Hanson	1st Chainman
Clifton Gump	2nd Chainman
Floyd Vaughan	Axman
Leo Kennedy	Moundman
Ben Jones	Flagman

CERTIFICATE OF U.S. CADASTRAL ENGINEER.

I, Wm. B. Kimmel U.S. Cadastral Engineer, hereby certify upon honor that, in pursuance of special instructions received from the U.S. District Cadastral Engineer for Group 138, Arizona, bearing date of the 24th day of September, 1925, 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

Connections on the U.S.-Mex. International Boundary Line and the SUBDIVISION LINES of

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Place: Phoenix, Arizona. Date: July 2, 1926.

Wm. B. Kimmel U.S. Cadastral Engineer. U.S. Surveyor.

APPROVAL.

OFFICE OF THE U.S. SUPERVISOR OF SURVEYS,

Denver, Colo., December 21, 1927.

The foregoing field notes of the survey of

Connections on the U.S.-Mex. International Boundary Line and the Subdivision Lines of

Fractional Township 24 South, Range 11 East of the Gila and Salt River Base and Meridian, in the State of Arizona

executed by William B. Kimmel, U.S. Cadastral Engineer and Claude F. Warner, U.S. Transitman

under his special instructions dated September 24, 1925 for Group 138 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. Supervisor of Surveys

I certify that the foregoing transcript of the field notes of the above described surveys in has been correctly copied from the original notes on file in this office.