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Book "H"

BOOK 3819

BOOK 3819

FIELD NOTES

OF THE SURVEY OF THE

Part of the Subdivisional Lines,

(Section 34)

of

TOWNSHIP 41 NORTH, RANGE 7 EAST.

3819

Of the Gila & Salt River Base & Meridian,

In the State of Arizona.

EXECUTED BY

Otis O. Gould, U. S. Transitman,

3819

In the capacity of U. S. Surveyor, under Special Instructions dated April 23, 1926, issued by the District Cadastral Engineer to govern surveys included in Group No. 139 Arizona, which were approved by the Commissioner of the General Land Office, May 20, 1926, and Assignment Instructions dated Jan. 29, 1927.

Survey commenced March 8, 1927.

Survey completed March 9, 1927.

INDEX DIAGRAM.

Township _____, Range _____

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

Notes on pages 4 & 5, this book

Notes on page 4 of this book

Notes on page 3 of this book

INDEX - DIAGRAM

SEC. 34

T. 41 N. - R. 7 E.

10th Standard Parallel North

Notes in Book "E" of this group

==== Surveyed under this group.

----- Unsurveyed.

March 8, 1927

March 9, 1927

March 8, 1927

DATE DIAGRAM

SEC. 34

T. 41 N. R. 7 E.

10th Standard Parallel North
Surv. March 5, 1927 by H. S. Hester, etc.

Notes in Book "E" of this group.

==== Surveyed by Otis O. Gould, U.S. Transitman, on dates shown thereon.

The surveys herein described were executed by Otis O. Gould, U. S. Transitman, on dates shown on diagram on page 1 hereof, using Buff light mountain transit No. 9305. The instrument is equipped with U-shaped standards, $4\frac{1}{2}$ inch horizontal circle, 4 inch vertical circle and improved Smith solar attachment; unless otherwise specified all azimuth determinations are accomplished with the solar attachment.

Feb. 19, 1927, 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.

Feb. 19, 1927, at camp near $\frac{1}{4}$ sec. cor. of secs. 13 and 18 on east boundary of T. 40 N., R. 7 E., G. & S. R. B. & M., Arizona, latitude $36^{\circ} 51' 57''$ N., longitude $111^{\circ} 36' 7''$ W., at 9 h. 36 m.; p. m., l. m. t., 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, by a tack in a stake driven firmly in the ground, about 10.00 chs. N.

Azimuth of Polaris at western elongation = $1^{\circ} 21' 16''$.

Feb. 20, 1927, at 8 h. 0 m., a. m., lay off the azimuth of Polaris $1^{\circ} 21\frac{1}{2}'$ to the east, and mark the meridian thus determined, by a tack in a stake driven firmly in the ground about 10.00 chs. N.

March 6, 1927, at above described station, at 8 h. 00 m., app. t., set off $36^{\circ} 52'$ N., on the latitude arc, $5^{\circ} 51'$ 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; the resulting reading of the declination arc is $5^{\circ} 48'$ S., which agrees with the calculated declination of the sun.

At 4 h. 00 m., p. m., app. t., with the latitude arc unchanged set off $5^{\circ} 43\frac{1}{2}'$ S., on the declination arc and determine a meridian with the solar which agrees with the true meridian.

As all of the observations made during the usual hours of solar work, come within 1' of the true meridian, conclude that the adjustments of the instrument are satisfactory.

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

Survey of Part of the Subdivision Lines of T. 41 N., R. 7 E.
(Section 34)

Chains A field investigation of the location of Wilson's Ranch, who was one of the applicants for the survey of T. 40 N., R. 7 E., determined that his holdings are entirely outside of said township and are in sec. 34 of T. 41 N., R. 7 E.

After conference with the District Cadastral Engineer it was deemed necessary to include areas embracing the Wilson holdings within the surveys of Group No. 139, Arizona, therefore those subdivision lines of said township which form bdrs. of sec. 34, are surveyed as described in the following notes

From the Standard cor. of secs. 34 and 35, T. 41 N., R. 7 E., on S. bdy. of Tp., (10th Std. Par. N.) described in Book "E" of this group:

N. 0° 1' W., on true line, bet. secs. 34 and 35.

Over mountainous land, thru scattering undergrowth.

Ascend 92 ft. over W. slope to.

- 9.20 Ravine, course SW. Ascend 457 ft. over S. slope to,
40.00 Set an iron post 3 ft. long, 1 in. in diam., 6 ins. in the ground to bed rock, deposit a stone marked with a cross (X) at base of post, and raise a md. of stone around post for $\frac{1}{4}$ sec. cor. of secs. 34 and 35, with brass cap marked

$\frac{1}{4}$
 S 34 | S 35
 1927

Asc. slightly over S. slope.

- 40.10 Base of cliff, 32 ft. high, bears E. and W., facing S.
40.60 Top of same cliff. Asc. 473 ft. over S. slope.
74.08 Top of sharp rocky spur, sloping SW. Set a flag at this point for triangulation of part of offset line used in measurement of part of sec. line bet. secs. 27 and 34, hereinafter described.
Descend 80 ft. over NW. slope.
75.50 Head of ravine, course SW. Asc. 20 ft. over S. slope to
76.10 Base of cliffs, 1500 ft. high, bearing nearly E. and W. facing S. Ascend 410 ft. to
79.58 Set an iron post 3 ft. long, 2 ins. in diam., 2 ins. in the ground to bedrock, on a ledge bet. cliffs, 8 ft. wide, bearing nearly E. and W., deposit a stone marked with a cross (X) at base of post, and raise a mound of stone around post for witness cor. to cor. of secs. 26, 27, 34 and 35, with brass cap marked

WC
 T 41 N R 7 E
 S 27 | S 26
 S 34 | S 35
 1927

- 80.00 Discontinue chaining at this witness cor.
True point for cor. of secs. 26, 27, 34 and 35, falls on S. face of cliff about 200 ft. high, where it is inaccessible and cannot be monumented, therefore establish witness cor. at 0.42 chs. S. 0° 1' E., as hereinbefore described.

Land, mountainous.

Soil, sandy and rocky, 3rd and 4th rate.

Timber, none.

Undergrowth, sagebrush, cactus and grass.

Survey of Part of the Subdivision Lines of T. 41 N., R. 7 E.
(Section 34).

- Chains From the Standard cor. of secs. 33 and 34, T. 41 N., R. 7 E., on S. bdy. of Tp. (10th Std. Par. N.), described in Book "E" of this group.
N. $0^{\circ} 2'$ W., on true line, bet. secs. 33 and 34.
Over rolling sand hills, thru scattering undergrowth.
Descend 166 ft. over NE. slope to $\frac{1}{4}$ sec. cor.
- 13.65 From this point NW. cor. of Wilson's house bears N. $38^{\circ} 07'$ E., from which house a spring of fresh water bears S. about 1 ch. dist.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam., 27 ins. in the ground, for $\frac{1}{4}$ sec. cor. of secs. 33 and 34, with brass cap marked

$\frac{1}{4}$
 S 33 | S 34
 1927

- 45.00 Dig pits 18 x 18 x 12 ins., one each N. and S. of cor., 3 ft. dist. Desc. slightly over E. slope to Sandy spur, slopes NE. Desc. 15 ft. over gradual N. slope to
- 46.60 Enter moundainous and rocky land. Desc. 185 ft. over steep NW. slope to
- 58.10 Top of cliff, 15 ft. high, bearing NE. and SW., facing NW.
- 58.15 Foot of same cliff. Desc. 48 ft. over NW. slope.
- 60.80 Paria Creek, 40 lks. wide, course NE., turns to E. and SE. at about 4.00 chs. NE. Asc. 307 ft. over steep rocky SW. slope to
- 72.00 Top of steep ascent, brs. NW. and SE. Enter rolling land. Ascend gradually over SW. slope to
- 80.00 Set an iron post 3 ft. long, 2 ins. in diam., 27 ins. in the ground, for cor. of secs. 27, 28, 33 and 34, with brass cap marked

T 41 N R 7 E
 S 28 | S 27
 S 33 | S 34
 1927

Raise a mound of stone 3 ft. base 2 ft. high, W. of cor. Land, rolling and mountainous.
Soil, sandy and rocky, 3rd and 4th rate.
Timber, none.
Undergrowth, sagebrush, cactus and grass.

- 40.00 East, on random line, bet. secs. 27 and 34.
Set temp. $\frac{1}{4}$ sec. cor.
- 50.66 Top of spur, sloping SW.
- 52.06 Beyond this point the random sec. line crosses a deep gulch or canyon, the sides of which are too steep and broken to permit of chaining, therefore discontinue chaining at this point on random line and obtain measurement of the remainder of the line by offset, as follows:
Designate 50.66 ch. station as offset point (A). Thence chain measurement S. $0^{\circ} 1'$ E., 5.84 chs. to offset point (B). From (B) the flag at 74.08 ch. station on sec. line bet. secs. 34 and 35, bears due east. Designate flag as offset point (C). Steep broken slopes prevent chaining of the portion B-C. of offset, therefore triangulate same. From offset point (B) chain a base N. $12^{\circ} 52'$ W., 10.28 chs. From NW. end of said base the flag (C) bears S. $72^{\circ} 27'$ E. Vertical angle from B to C = $+16\frac{1}{2}^{\circ}$. All bearings checked by direct reading of the solar and all angles checked by de-

March 13, 1927, at 8 h 00 m., a.m., app. t., set off $36^{\circ} 52'$ N., on the lat. arc, $3^{\circ} 7'$ S., on the decl. arc, and determine a meridian with the solar, which agrees within 1' with the true meridian.

At app. noon, with the lat. arc unchanged, observe the sun on the meridian, and obtain a reading of $3^{\circ} 4'$ S., on the decl. arc, which agrees with the calculated decl. of the sun.

At 4 h. 00 m., p.m., app. t., with the lat. arc unchanged, set off $2^{\circ} 59\frac{1}{2}'$ S., on the decl. arc, and determine a meridian with the solar, which agrees within 1' with the true meridian.

As all of the observations made during the usual hours of solar work come within 1' of the true meridian, conclude that the instrument has remained in satisfactory adjustment throughout the surveys described in the foregoing notes.

Boundaries of Sec. 34, T. 41 N., R. 7 E.
Latitudes, Departures and closing errors.

Line designated	True course	Dist- ance.	Latitudes		Departures	
			N.	S.	E.	W.
South Boundary (10th Std. Par. N.)	West	80.00				80.00
West Boundary	N. $0^{\circ} 2'$ W.	80.00	80.00			.05
North Boundary	N. $89^{\circ} 57'$ E.	80.06	.07		80.06	
East Boundary	S. $0^{\circ} 01'$ E.	80.00		80.00	.02	
Convergency					.02	
Totals			80.07	80.00	80.10	80.05
			80.00		80.05	
Error in latitude			0.07			
Error in departure					0.05	

GENERAL DESCRIPTION.

The surface of Sec. 34, T. 41 N., R. 7 E., is very rough with the exception of the south and west portion.

The north east corner extends part way up some very steep bluffs on the south west slope of a large rough mountain range

The soil is sandy and rocky, 3rd and 4th rate.

There is no timber in this section

The undergrowth is very scattering and consists of sagebrush, cactus and very scattering bunch grass.

There is one permanent running stream, "Paria Creek", course SE., with sandy changeable banks, entering the section about $\frac{1}{4}$ mile south of the cor. of secs. 27, 28, 33 and 34, and leaving at about $\frac{1}{4}$ mile west of the standard cor. of secs. 34 and 35, on the south boundary of the section (10th Std. Par. N.)

There is one ranch house in the southwest quarter, belonging to Wilson (applicant) which is at present vacant, and apparently has been for some time. The only fresh water comes from a spring located about 1.00 ch. south of this ranch house.

There are no visible indications of valuable mineral deposits.
There was once a road joining this ranch, with Lee's Ferry, but it has been washed out by the water of Paria Creek, and at present can not be used by cars.

CERTIFICATE OF UNITED STATES TRANSITMAN.

I, Otis O. Gould U.S. Transitman, hereby certify upon honor that, in pursuance of special instructions received from the U.S. District Cadastral Engineer, for Group No. 139, Arizona, bearing date of the 23rd day of April, 1926, 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 Subdivision lines of

Township 41 North, Range 7 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 139, Arizona, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Place: San Francisco Calif. Otis O. Gould.
Date May 6, 1927. U.S. Transitman.

APPROVAL.

OFFICE OF THE U.S. SUPERVISOR OF SURVEYS,

Denver, Colo., Feb. 23, 1928.

The foregoing field notes of the survey of

Part of the Subdivision Lines
(E., W. and N. bdrs. of Sec. 34.)

of Township 41 North, Range 7 East
of the Gila and Salt River Base and Meridian, in the State of Arizona

executed by Otis O. Gould, U.S. Transitman

under his special instructions dated April 23, 1926 for Group 139, Arizona, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Frank M. Johnson
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.~~