

Furnished by U. S. Geological Survey
Public Survey Office
San Francisco, Calif.

Survey of a portion of the S. by. of T. 5 N., R. 11 W.
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FIELD NOTES OF
OF
CERTIFIED PHOTOGRAPHIC COPY
COPY OF

UNITED STATES
 DEPARTMENT OF THE INTERIOR
 GENERAL LAND OFFICE

PUBLIC SURVEY OFFICE
 San Francisco, California
 November 12, 1931

I hereby certify that the annexed is a photostatic copy of the field notes of the survey of sections 25 to 36, inclusive of Township 5 North, Range 11 West, San Bernardino Base and Meridian, California, as executed by John E. Harboys, C. E. Surveyor, during November and December, 1926, as the same remain on file and of record in this office.

HARRY S. PALMER (sgd.)
 Acting Office Cadastre
 Engineer.

R.//W.					
1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30
31	32	33	34	35	36
37	38	39	40	41	42
43	44	45	46	47	48
R.//W.					

BOOK A

FIELD NOTES

OF THE SURVEY OF THE

Resurvey of a portion of the E. ddy. of T. 5 N., R. 12 W.
Survey of the S. ddy. of T. 5 N., R. 11 W.,

Resurvey of a portion of the subdivisions of T. 5 N., R. 11 W.

and Survey of a portion of the subdivisions of T. 5 N., R. 11 W.

Of the San Bernardino Meridian,

In the State of California.

Executed by

John L. Marboys, U. S. Surveyor

In the capacity of U. S. Surveyor, under special instructions dated
June 25, 1926, issued by the United States Surveyor General to Govern-
ments included in Group No. 160, which were approved by the Commis-
sioner of the General Land Office, July 13, 1926, and assignment in-
structions dated August 14, 1926.

Survey commenced November 13, 1926

Survey completed December 16, 1926

Survey of a portion of the E. bdy. of T. 5 N., R. 12 W.

Survey commenced November 13, 1926 and executed with Young and Sons transit No. 8385. The instrument is equipped with a Smith solar attachment and full vertical circle.

The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

The instrument was approved, subject to the usual field tests, by the District Geodetical Engineer for California. I examine the adjustments of the transit and the solar apparatus and find them correct; 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:

November 13, 1926: at camp near the $\frac{1}{2}$ sec. cor. bet. secs. 25 and 30, T. 5 N., R. 10 and 11 W., S. B. N., latitude $34^{\circ} 30' N.$; longitude $117^{\circ} 58' W.$; at 5h. 38.5m., p.m., 1.m.t., I make an hour angle observation on Polaris, east of the meridian, two each with the telescope in direct and reversed positions, reading the horizontal deflection angle from a flag about 8 chs. N. of my station.

Mean horizontal angle from Polaris to flag is $6^{\circ} 08' N-E$	Latitude of Polaris is $N. 1^{\circ} 13' E.$	True bearing of flag is $N. 7^{\circ} 21' E.$
Mean vertical angle to Polaris is $34^{\circ} 56' 06''$	Refraction correction $-1' 22''$	Altitude of Polaris $34^{\circ} 54' 44''$
Primary correction $-24' 37''$	Secondary correction $-0' 09''$	Observed latitude $34^{\circ} 29' 58''$

November 14, 1926: I lay off the azimuth of the flag $7^{\circ} 21'$ to the west, and mark the meridian thus determined, by a nail in a stake about 8 chs. N. of my station. At 5h 00m a.m., app.t., I set off $34^{\circ} 30' N.$ on the lat. arc; $18^{\circ} 06' S.$ on the decl. arc and determine a meridian

REVIEWER OF A PORTION OF THE E. DIV. OF T. S. N. R. 12 W.

WITH THE SOLAR, WHICH I FIND TO AGREE WITH THE TRUE MERIDIAN. At apparent noon, with the lat. arc unchanged, I observe the sun on the meridian; the resulting reading of the decl. arc is $18^{\circ} 10' 7''$ S., which agrees with the computed decl. of the sun. At 4h 00m p.m., app. t., with the lat. arc unchanged, I set $18^{\circ} 11' 7''$ 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 usual hours of solar work come within $1'$ of the true meridian, I conclude that the adjustments of the instrument are satisfactory.

December 16, 1926: on the meridian above described, at 8h 00m a.m., app. t., I set $34^{\circ} 30'$ on the lat. arc; $23^{\circ} 14' 7''$ 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 $23^{\circ} 17' 7''$ S., which agrees with the computed decl. of the sun. At 4h 00m p.m., app. t., with the lat. arc unchanged, I set $23^{\circ} 15' 7''$ 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 $1'$ of the true meridian, I conclude that the instrument has been maintained in satisfactory adjustment throughout the survey.

Unless otherwise specified, all azimuth determinations are accomplished with the solar apparatus. All measurements are made with a Lullin steel tape, 5 chs. in length, compared with a Lullin standard 1 ch. tape and found correct. The

Chains

Reurvey of a portion of the E. bdy. of T. 5 N., R. 12 W.

measurements are made on the slope, the vertical angle determined with clinometer or transit, and the slope measurements properly reduced to true horizontal distances for entry in the field notes.

From the $\frac{1}{2}$ sec. cor. on E. bdy. of sec. 24, South on a random line along E. bdy. of sec. 24, Fall 9 lks. E. of the closing cor. of secs. 19 and 30, T. 5 N., R. 11 W.

40.83 Fall 19 lks. E. of the old cor. of secs. 24 and 25. Thence, from old sec. cor.

South on a random line along E. bdy. of sec. 25, Fall 32 lks. E. of the old $\frac{1}{2}$ sec. cor.

Thence from old $\frac{1}{2}$ sec. cor., South on a random line along E. bdy. of sec. 25, Fall 38 lks. E. of the old cor. of secs. 25 and 36. Thence from old sec. cor.,

South on a random line along E. bdy. of sec. 36, Fall 70 lks. W. of the old $\frac{1}{2}$ sec. cor.

Thence from old $\frac{1}{2}$ sec. cor. South on a random line along E. bdy. of sec. 36, Fall 34 lks. W. of the old cor. of T. 5 N., R. 12 W.

The old $\frac{1}{2}$ sec. cor. on E. bdy. of sec. 24 is a juniper post, 6 ins. in dia., 36 ins. above ground, in an old mound of stone, and marked $\frac{1}{2}$ on W. face. Alongside and 3 lks. N. is a granite stone, 10 x 8 ins., 10 ins. above an old mound of stone, and marked $\frac{1}{2}$ on W. face. Alongside and S. of juniper post,

Set an iron post, 3 ft. long, 1 in. dia., 20 ins. in the ground, supported by a mound of stone for $\frac{1}{2}$ sec. cor. of sec. 24, only, with brass cap marked

S 24 $\frac{1}{2}$
1926

from which

A juniper, 4 ins. dia., bears S. 87 3/4 W., 169 lks.

dist., marked $\frac{1}{2}$ S 24 B 1

REVIEW of a portion of the E. bdy. of T. 5 N., R. 12 W.

Chains

A juniper, 4 ins. dia., bears N. 36 1/2° W., 67 lks. dist., marked 1/4 S 24 B 1

Thence

S. 0° 16' W. on a true line along E. bdy. of sec. 24.

Over rolling mountains through scattering juniper.

Ascend NW. slope 5 ft. to

0.70 Small spur, rocky slopes W. Descend SW. slope 120 ft. to

17.40 Ravine, course S. 20° E. Ascend NW. slope 25 ft. to

18.91 The old closing cor. of secs. 19 and 30, T. 5 N., R. 11 W., which is a cast iron post (filled with concrete), 4 ins. square, 12 ins. above an old mound of stone, marked (with letters cast in iron) S 19 on N., T 5 N R 11 W on E.,

SGM 45 S 30 on S. and 00 on W. faces.

23.50 Spur, slopes E. Descend SE. slope 80 ft. to

31.40 Ravine, course N. 20° E. Ascend N. slope 170 ft. to

39.20 Spur, slopes N. 20° E. Descend S. slope 15 ft. to

40.83 Cor. of secs. 24 and 25, which is a sandstone 12x5 ins., 12 ins. above ground, marked with 4 grooves on N. and 2 grooves on S. face, witnessed by a mound of stone, W. of cor. Along-

side and SE. of stone.

Set an iron post, 3 ft. long, 2 ins. dia., 18 ins. in the

ground to solid rock, supported by a mound of stone, for

cor. of secs. 24 and 25 only, with brass cap marked

T 5 N	1 5 N	S 24	S 25
	S 30		
R 12 W	R 11 W		

from which

A juniper, 5 ins. dia., bears S. 74 1/2° W., 64 lks. dist., marked 1 5 N R 12 W S 25 B 1

A juniper, 6 ins. dia., bears N. 57 1/2° W., 125 lks. dist., marked 1 5 N R 12 W S 24 B 1

Land, rolling mountains. Soil, rock, gravel, sand. Timber, scattering juniper. Undergrowth, scattering oak, manzanita.

Thence

S. 0° 27' W. on a true line along E. bdy. of sec. 25. Over rolling mountains through scattering juniper and oak.

Reurvey of a portion of the E. bdy. of T. 5 N. R. 12 W. Chain

Descend S. slope 25 ft. to

E. edge of saddle, bears N. and S. Ascend N. slope 90 ft.

Spur, slopes S. 30° E. Descend SW. slope 15 ft. to

Head of draw, course N. 30° W. Ascend N. slope 95 ft. to

Top of knoll, bears E. about 1 ch. dist. Descend 60 ft.

Head of draw, course N. 60° W. Ascend NW. slope 115 ft.

Spur, slopes NW. Descend SW. slope 60 ft. to

Having, course NW. Ascend 20 ft. to

Low spur, slopes W. Descend 15 ft. to

The old $\frac{1}{2}$ sec. cor., which is a juniper post, 4 ins. dia.,

20 ins. above a mound of stone, marked $\frac{1}{2}$ S on W. and SGR

on E. face, witnessed by a mound of stone W. of cor. Along-

side and S. of post,

Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the

Ground for $\frac{1}{2}$ sec. cor. of sec. 25 only, with brass cap marked

S 25
1926

from which

A juniper, 5 ins. dia., bears S. $8\frac{3}{4}$ W., 297 lks.

A juniper, 5 ins. dia., marked $\frac{1}{2}$ S 25 BT.

A juniper, 5 ins. dia., bears N. $73\frac{3}{4}$ W., 115 lks.

dist., marked $\frac{1}{2}$ S 25 B T.

Thence

S. 0° 33' W. on a true line along E. bdy. of sec. 25.

Over rolling hills through scattering live oak, yuccas

and desert brush. Descend SW. slope 15 ft. to

Draw, course N. 30° W. Ascend N. slope 390 ft. to

Ridge, bears E. and W. Descend S. slope 225 ft. to

Cor. of secs. 25 and 36 which is a juniper post, 4 ins.

square, 22 ins. above ground, in an old mound of stone,

witnessed by a mound of stone W. of cor., and marked 0 0

on NW., SGR on SE., S 36 on SW. and T 5 N R 12 W S 25 on

NW. face, with 5 notches on N. and 1 notch on S. edge

I destroy the markings 00 on NW. face. Alongside and S.,

Set an iron post, 3 ft. long, 2 ins. dia., 16 ins. in the

ground to solid rock, supported by a mound of stone, for

39.42

28.60

3.70

40.65

39.10

35.70

32.50

26.60

21.80

13.80

9.00

3.30

Survey of a portion of the E. bdy. of T 5 N., R. 12 W.

Chains

cor. of secs. 25 and 36 only, with brass cap marked

T 5 N	S 25
R 12 W	S 36
1926	
T 5 N	S 31
R 12 W	S 31

land, rolling mountains. Soil, rock, gravel, sand, clay. Timber, scattering pinyon, live oak. Undergrowth, small juniper and desert brush.

Thence

S. 10 00' E. on a true line along E. bdy. of sec. 36.

Over rolling hills through scattering pinyon, juniper & brush.

U. S. Forest Reserve Boundary Post No. 116, which is an iron

post, 4 ins. dia., 8 ins. above ground, with brass cap marked



Descend SW. slope 140 ft. to

Spur, slopes S. 30° W. Descend SW. slope 115 ft. to

Wash, 20 lks. wide, course S. 80° W. Ascend NW. slope

100 ft. to

Spur, slopes S. 80° W. Descend S. slope 95 ft. to

Wash, 40 lks. wide, course W. Ascend S ft. to

The old 1/2 sec. cor., which is a juniper post, 3 ins. sq.,

24 ins. above ground, in an old mound of stone, marked

1/2 S on W. and SGR on E. face, witnessed by a mound of

stone, W. of cor. Alongside and S.

Set an iron post, 3 ft. long, 1 in. dia., 27 ins. in the

ground, for 1/2 sec. cor. of sec. 36 only, with brass cap

marked

S 36
1926

Thence

S. 0° 29' E. on a true line along E. bdy. of sec. 36.

Over rolling hills through scattering timber and brush.

Survey of a portion of the E. bdy. of T. 5 N., R. 12 W.

Chain

Ascend NW, slope 125 ft. to

Spur, slopes N. 30° W. Descend SW, slope 10 ft. to

Ravine, course N. 30° W. Ascend NW, slope 185 ft. to

Spur, slopes W. Descend S. slope 55 ft. to

Ravine, course W. Ascend 10 ft. to

Spur, slopes W. Descend 35 ft. to

Ravine, course N. 30° W. Ascend NW, slope 115 ft. to

Spur, slopes W. Descend S. 30° E. slope 80 ft. to

Ravine, course W. Ascend 30 ft. to

The old SE. cor. of Tp., which is a cast iron post, (filled

with concrete), 4 ins. square, 20 ins. above ground, in old

mound of earth, marked (with letters cast in iron) T 4 N S 6

on NE., SQR 44 R 11 W on SE., R 12 W S 1 on SW. and T. 5

N S 36 on NW. face, with pits N. and W. of cor.

Land, rolling hills. Soil, rock, gravel, sand, timber, scattering pinyon, live oak, yucca. Undergrowth, small junipers, greasewood, desert brush.

Resurvey and survey of the S. bdy. of T. 5 N., R. 11 W.

from the cor. of T. 5 N., R. 10 and 11 W.,

west on a random line along N. bdy. of sec. 6, T. 4 N., R. 10 W.,

8.45

The old cor. of T. 4 N., R. 10 and 11 W.

The old cor. of T. 5 N., R. 10 and 11 W., is a granite stone

12 x 6 ins., 10 ins. above ground, marked (+) on top, with

6 grooves on N., E. and W. edges and witnessed by a mound of

stone N. of cor. Alongside and S., is an iron post, 2 ins.

dia., 10 ins. above ground, with a brass cap marked

COUNTY SURVEYORS

T 5 N W
36 131.10

R 11 W
1 4 N E

MONUMENT

Alongside and S. of granite stone,

Set an iron post, 3 ft. long, 3 ins. dia., 28 ins. in the

ground, for cor. of T. 5 N., R. 10 and 11 W.,

Resurvey and Survey of the S. bdy. of T. 5 N., R. 11 W.

Chains

with brass cap marked

T	5	N
R	11	W
S 36		
S 31		
E 6		
T	4	N
R	10	W

from which

A Juniper, 6 ins. dia., bears N. 49 $\frac{1}{2}$ ° E., 45 lks. dist., marked T 5 N R 10 W S 31 E 1.

A Juniper, 4 ins. dia., bears N. 58° W., 51 lks. dist., marked T 5 N R 11 W S 36 E 1.

Thence

West on a true line along S. bdy. of sec. 36 and N. bdy. of sec. 6, T. 4 N., R. 10 W.

Over rolling hills through scattering Juniper. Ascend

rocky E. slope 165 ft. to

Spur, slopes N. Descend steep W. slope 15 ft. to

8.10

The old cor. of T. 4 N., Rs. 10 and 11 W., which is a granite stone, 8 x 6 ins., 6 ins. above ground, marked with 6

8.45

notches on N. and W. edges. Alongside and S. is an iron

post, 2 ins. dia., 10 ins. above ground, with a brass cap

marked

COUNTY SURVEYORS

T	5	N
R	11	W
S 16		
E 6		
MONUMENT		
R		
10		
14		
N		

Alongside and S. of granite stone,

Set an iron post, 3 ft. long, 3 ins. dia., 28 ins. in the

ground, for cor. of T. 4 N., Rs. 10 and 11 W., with brass

cap marked

T	5	N
R	11	W
S 36		
S 16		
E 6		
R 11		
W 10		
T 4		
N		

from which

A Juniper, 4 ins. dia., bears S. 45° E., 45 lks. dist., marked T 4 N R 10 W S 6 E 1.

A Live Oak, 5 ins. dia., bears S. 49 $\frac{1}{2}$ ° W., 54 lks. dist., marked T 4 N R 11 W S 1 E 1.

Thence

West on a true line along S. bdy. of sec. 36.

Reurvey and Survey of the S. Div. of T. 5 N., R. 11 W.

Chains

Over rough, mountainous land, through scattering pinyon

and live oak. Descend steep W. slope 110 ft. to

4.20 Ravine, course N. Ascend steep, rocky N. 70° E. slope 355 ft. to

16.70 Spur, slopes N. 10° E. Descend steep NW. slope 50 ft. to

19.30 Ravine, course N. Ascend steep N. 60° E. slope 75 ft. to

21.40 Spur, slopes N. 20° E. Descend steep NW. slope 85 ft. to

23.90 Ravine, course N. 10° W. Ascend NE. slope 115 ft. to

25.00 Small spur, slopes N. Descend W. slope 45 ft. to

25.70 Ravine, course N. 20° E. Ascend steep E. slope 45 ft. to

26.90 Spur, slopes N. Descend N. 60° W. slope 25 ft. to

27.70 Ravine, course N. 20° E. Ascend very steep N. 60° E. slope

170 ft. to

31.55 A point 40.00 chs. in departure from the S.E. cor. of Tp.

Set an iron post, 3 ft. long, 1 in. dia., 27 ins. in the

ground, for § sec. cor. of sec. 36 only, with brass cap

marked

§ 36

1926

from which

A Juniper, 5 ins. dia., bears N. 32 3/4° E., 38 lks. dist., marked § 36 B T.

A Juniper, 6 ins. dia., bears N. 73 3/4° W., 36 lks. dist., marked § 36 B T.

Ascend 40 ft. to

33.10 Spur, slopes N. Descend N. 60° W. slope 165 ft. to

38.30 Ravine, course N. 20° W. Ascend NE. slope 210 ft. to

39.40 Small spur, slopes N. 20° W. Descend NW. slope 40 ft. to

42.10 Ravine, course NW. Ascend E. slope 90 ft. to

44.90 Spur, slopes N. 10° W. Descend NW. slope 50 ft. to

47.30 Ravine, course NE. Ascend E. slope 205 ft. to

54.30 Spur, slopes N. Descend W. slope 155 ft. to

59.80 Enter bottom of canyon, bears N. and S.

60.90 Leave canyon bottom, bears N. 20° E. and S. Ascend N. 60°

E. slope 230 ft. to

71.55 A point 80.00 chs. in departure from S.E. cor. of Tp.,

Set an iron post, 3 ft. long, 2 ins. dia., 6 ins. in the

Resurvey and Survey of the S. bdy. of T. 5 N., R. 11 W.

Chains

Ground to solid rock, marked with a cross (+), and supported by a mound of stone, for cor. of secs. 35 and 36 only, with

brass cap marked

T 5 N	R 11 W
S 35	S 36

1926

from which

S. fork of triple pinyon, 12 ins. dia., bears N. 30 E., 42 lks. dist., marked T 5 N R 11 W S 36 B T. A pinyon, 14 ins. dia., bears N. 50 E. W., 70 lks. dist., marked T 5 N R 11 W S 35 B T.

Land, rough mountains. Soil, rock, gravel, sand. Timber, scattering pinyon and live oak. Undergrowth, scattering juniper and desert brush.

Survey of S. bdy. of T. 5 N., R. 11 W.

from the cor. of secs. 35 and 36 only, on S. bdy. of Tp.,

hereinbefore described,

West on a true line along S. bdy. of sec. 35.

Over mountainous land through scattering pinyon and juniper.

Ascend NE. slope 120 ft. to

Spur, slopes N. 20° E. Descend N. 30° W. slope 15 ft. to

Descend steep SW. slope 80 ft. to

Havine, course NW. Ascend NE. slope 80 ft. to

Spur, slopes N. 20° E. Descend NW. slope 35 ft. to

Havine, course NE. Ascend S. 60° E. slope 100 ft. to

Spur, slopes N. 20° E. Descend steep W. slope 390 ft. to

Set an iron post, 3 ft. long, 1 in. dia., 18 ins. in the

cor. of sec. 35 only, with brass cap marked

T 5 N

1926

and raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor. Cliff to the N. prevents mound in that position.

Descend steep, rocky SW. slope 195 ft. to

Havine, course N. 60° E. Ascend rough NE. slope 45 ft. to

Spur, slopes N. 20° W. Descend N. 60° E. slope 105 ft. to

Havine, course N. 30° W. Ascend NE. slope 50 ft. to

Spur, slopes N. 30° E. Descend SW. slope 145 ft. to

61.60

58.20

55.90

47.80

40.00

30.30

25.70

22.40

17.30

14.60

11.60

51.00 Little Rock Creek, 30 lks. wide, course N. 10° W. Ascend.
 47.00 High water mark, Little Rock Reservoir, bears N. 20° W. and S. 20° E. Descend 20 ft. to
 43.60 Same ravine, course N. 80° W. Descend 65 ft. to
 40.90 Ravine, course S. 80° W. Descend 85 ft. to
 of cor. Descend W. slope 40 ft. to
 and raise a mound of stone, 3 ft. base, 2 ft. high, N.

1926

± 8 34

marked

40.00 Ground, for ± sec. cor. of sec. 34 only, with brass cap
 Set an iron post, 3 ft. long, 1 in. dia., 27 ins. in the
 37.90 Spur, slopes S. 30° W. Descend NW. slope 100 ft. to
 27.80 Head of small ravine, course SW. Descend 65 ft. to
 21.70 Spur, slopes N. 30° W. Descend W. slope 220 ft. to
 14.10 Ravine, course NW. Ascend NE. slope 150 ft. to
 7.90 Spur, slopes NW. Descend SW. slope 230 ft. to
 3.00 Ravine, course NW. Ascend NW. slope 60 ft. to
 and undergrowth. Descend SW. slope 145 ft. to
 Over rough and broken mountains through scattering timber
 West on a true line along S. bdy. of sec. 34.

Land, rough, broken mountains. Soil, rock, gravel, sand, timber, scattering pinyon, juniper, yucca, undergrowth, small juniper, live oak, desert brush.

A juniper, 8 ins. dia., bears N. 50° W., 55 lks. dist., marked T 5 N R 11 W S 34 B 1

from which

1926

T 5 N R 11 W S 34 B 35

brass cap marked

80.00 by a mound of stone, for cor. of secs. 34 and 35 only, with
 Ground to solid rock, marked with a cross (+), supported
 Set an iron post, 3 ft. long, 2 ins. dia., 12 ins. in the
 78.40 Spur, slopes N. Descend W. slope 55 ft. to
 76.20 Drain, course N. Ascend NE. slope 20 ft. to
 72.70 Spur, slopes NW. Descend NW. slope 50 ft. to
 65.40 Ravine, course NW. Ascend NE. slope 205 ft. to

Survey of S. bdy. of T. 5 N., R. 11 W.