

2837

4-679

Book "C"

~ Standard Lines ~

FIELD NOTES

BOOK 2837

125  
①  
SEP 4-1914

OF THE SURVEY OF THE

Second Standard Parallel North through Range 14 West.

Of the Gila & Salt River Base and Meridian,

In the State of ARIZONA

EXECUTED BY

W. K. Kierulff, U. S. Transitman

~~In the capacity of U. S. Surveyor~~, under instructions dated February 11, 1914,  
issued by the United States Surveyor General to govern surveys included in  
Group No. 34, which were approved by the Commissioner of the General Land  
Office, February 20, 1914, pursuant to authority contained in the Act of  
Congress dated 191

Survey commenced June 17, 1914.

Survey completed June 18, 1914.

BOOK 2837

Book "C"

### INDEX DIAGRAM.

Indexing the 2nd Std. Par. North, as the South bdy. of

Township 9 North Range 14 West  
*2nd Stand. Par. N.*

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2nd Standard Parallel North

3 Notes in this book (indexed)

Notes in Book "A"

Notes in Book "N"

Accepted surveys.

Unsurveyed lines.

Survey of Second Stand. Par. North, through Range 14 West. 16

Chains.

Survey commenced June 17, 1914, and executed by W.K. Kierulff U.S. Transitman, with a Young and Sons' light mountain transit No. 8492, with Smith Solar Attachment. 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.

I examine the adjustments of the transit, and correct the level and collimation errors. The solar attachment was examined and tested on the meridian determined by observations on Polaris made by me on the night of June 13, 1914, as described in Book "N." and found to be correct.

At the Standard cor. of Ts. 9 N., Rs. 13 and 14 W.; latitude, 34° 04' 30" N.; long. 113° 39' 34" W., which is an iron post 3 ins. in diam., 12 ins. above ground, marked and witnessed as described by the Surveyor General; lat. 34° 04' 30" N.; long. 113° 39' 34" W.

At 9h. a.m., l.m.t., I set off 34° 04' 1/2" N. on the lat. arc; 23° 23' N. on the decl. arc; and determine a meridian with the solar.

Thence I run, West, on south bdy. of sec. 36. Over level land.

40.00 Difference bet. measurements of 40.00 chs. by two sets of chainmen is 1 lk., position of middle point, By 1st set, 39.99 1/2 chs., By 2nd set, 40.00 1/2 chs., the mean of which is Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for standard 1/4 sec. cor., with brass cap, marked,

S C 1/4 S 36 in N. half; 1914 in S. rim;

dig pits 18x18x12 ins., E. and W. of cor., 3 ft. dist., and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, north of cor.

52.60 Dry wash, 12 lks. wide, 4 ft. banks, course SW.

70.00 Dry wash, 65 lks. wide, 4 ft. banks, course S. 20° W.

Difference bet. measurements of 80.00 chs. by two sets of chainmen is 1 link, position of middle point,

By 1st set, 80.00 1/2 chs.

By 2nd set, 79.99 1/2 chs., the mean of which is

80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for standard cor. of secs. 35 and 36, with brass cap, marked,

T 9 N R 14 W in N. half; S 35 in NW., and S 36 in NE. quadrants; S C S of center, 1914 in S. rim;

dig pits 24x18x12 ins., E. and W. 3 ft., and N. of cor. 7 ft. dist. Raise a mound of earth 4 ft. base, 2 ft. high, N. of cor.

Land, level.

Soil, sandy, 2nd rate.

Timber, ironwood and palo verde.

Undergrowth, greasewood brush.

West, on south bdy. of sec. 35.

Over level land.

40.00 No difference bet. measurements of 40.00 chs. by two sets of chainmen; therefore at Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for standard 1/4 sec. cor., with brass cap, marked,

S C 1/4 S 35 in N. half; 1914 in S. rim;

dig pits 18x18x12 ins. E. and W. of cor. 3 ft. dist., and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, N?

## 2. Survey of Second Standard Par. North through Range 14 West.

Chains.

- of corner.
- 43.00 Dry wash, 10 lks. wide, 2 ft. banks, course south.
- 71.00 Dry wash, 25 lks. wide, 1 ft. banks, course south.
- 76.00 Ascend east slope.  
No difference between measurements of 80.00 chs. by two sets of chainmen; therefore, at
- 80.00 Set an iron post 3 ft. long, 3 ins. in diam., in a mound of stone 3 ft. base, 2½ ft. high for standard cor. of secs. 34 and 35, with brass cap, marked,  
T 9 N R 14 W in N. half;  
S 34 in NW., and  
S 35 in NE. quadrants;  
S C S of center,  
1914 in S. rim;  
build mound of stone 3 ft. base, 3 ft. high, N. of cor.  
Pits impracticable.  
Land, level to 76.00 chs., thence mountainous.  
Soil, gravelly and rocky, 3rd and 4th rate.  
Timber, scattering palo verde; giant cactus.  
Undergrowth, greasewood brush.  
At this cor., I set off 23° 23' N. on the decl. arc; and at 12h. 0.5m. I observe the sun of the meridian; the resulting lat. is 34° 04½' N.
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- West, on south bdy. of sec. 34.  
Over mountainous land.
- .70 Top of hill, which extends 10 chs. N. and S. of line.  
Descend west slope.
- 5.00 Foot of descent, dry wash, 30 lks. wide, 2 ft. banks, course south.  
Enter rolling land, gradual south slope.
- 12.00 Ravine, 75 lks. wide, 5 ft. banks, course S. 10° E.
- 35.20 Dry wash, 15 lks. wide, 2 ft. banks, course S. 5° W.  
No difference bet. measurements of 40.00 chs. by two sets of chainmen; therefore, at
- 40.00 Set an iron post 3 ft. long, 1 in. in diam., 18 ins. in the ground (could not set deeper for solid stone) build mound of stone 2½ ft. base, 1½ ft. high, around post for standard ¼ sec. cor., with brass cap, marked,  
S C ¼ S. 34 in N. half;  
1914 in S. rim;  
raise a mound of stone 3 ft. base, 3 ft. high, N. of cor.  
Pits impracticable.
- 46.50 Dry wash, 15 lks. wide, 1 ft. banks, course SW.
- 65.00 Ascend SE. slope.
- 77.50 Top of ascent on south slope.  
Descend SW. slope.  
Difference between measurements of 80.00 chs. by two sets of chainmen is 3 links, position of middle point,  
By 1st set, 80.01½ chs.,  
By 2nd set, 79.98½ chs., the mean of which is
- 80.00 Set an iron post 3 ft. long, 3 ins. in diam., in a mound of stone 3 ft. base, 2½ ft. high, for standard cor. of secs. 33 and 34, with brass cap, marked,  
T 9 N R 14 W in N. half;  
S 33 in NW., and  
S 34 in NE. quadrants;  
S C S of center,  
1914 in S. rim;  
build mound of stone 3 ft. base, 3 ft. high, north of cor. Pits impracticable.  
Land, rolling and mountainous.  
Soil, rocky, 4th rate.  
Timber, scattering scrub palo verde.  
Undergrowth, greasewood brush, cholla and ocotillo cactus.
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2nd Standard Parallel North through Range 14 West 3.

Chains	West, on south bdy. of sec. 33. Over mountainous land.
4.00	Foot of descent in ravine, course SE.
7.00	Ascend E. slope.
12.70	Top of hill; descend west slope.
17.00	Foot of descent; thence over rolling land.
19.00	Dry wash, 75 lks. wide, 8 ft. banks, course SE.
37.30	Dry wash, 100 lks. wide, 8 ft. banks, course SE.
	Difference between measurements of 40.00 chs. by two sets of chainmen is 1 link, position of middle point, By 1st set, 40.00½ chs. By 2nd set, 39.99½ chs., the mean of which is
40.00	Set an iron post 3 ft. long, 1 in. in diam., in a mound of stone 3 ft. base, 2½ ft. high for standard ¼ sec. cor., with brass cap, marked, S C ¼ S 33 in N. half; 1914 in S. rim; build mound of stone 3 ft. base, 3 ft. high, N. of cor. Pits impracticable. Ascend NE. slope.
52.00	On NE. slope.
74.00	Top of ascent in saddle divide; descend west slope. Difference between measurements of 80.00 chs. by two sets of chainmen is 9 lks., position of middle point, By 1st set, 80.04½ chs. By 2nd set, 79.95½ chs., the mean of which is
80.00	Set an iron post 3 ft. long, 3 ins. in diam., in a mound of stone 2½ ft. base, 2½ ft. high for standard cor. of secs. 32 and 33, with brass cap marked, T 9 N R 14 W. in N. half; S 32 in NW. and S 33 in NE. quadrants; S C S of center, 1914 in S. rim; build a mound of stone 3 ft. base, 3 ft. high, north of cor. Pits impracticable. Land, mountainous. Soil, rocky, 4th rate. Timber, scattering scrub palo verde. Undergrowth, greasewood brush, cholla and ocotillo cactus. June 17, 1914.
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	June 18, 1914: At 9h. a.m., l.m.t., I set off 34° 04½' N. on the lat. arc; 23° 25' N. on the decl. arc, and determine a meridian with the solar at the standard cor. of secs. 32 and 33. Thence I run, West, on south bdy. of sec. 32. Over rolling land. Along south slope of mountain.
7.00	Dry wash, 75 lks. wide, 6 ft. banks, in draw, course S.
10.00	Ascend SE. slope.
14.00	Top of ascent; thence along south slope.
20.00	Descend into canyon, course S.; heads 10 chs. N. 5 chs. wide, 100 ft. deep. No difference between measurements of 40.00 chs. by two sets of chainmen; therefore, at
40.00	Set an iron post, 3 ft. long, 1 in. in diam., in a mound of stone 3 ft. base, 2½ ft. high for standard ¼ sec. cor. with brass cap, marked, S C ¼ S 32 in N. half; 1914 in S. rim; raise a mound of stone 3 ft. base, 3 ft. high, north of cor. Pits impracticable.
40.70	Top of spur, brs. N. and S. Descend west slope.
48.00	Foot of descent in canyon, brs. N. and S. Ascend E. slope.
78.80	Top of ascent. Descend SW. slope.

## 4. 2nd Standard Parallel North through Range 14 West

Chains.

- Difference bet. measurements of 80.00 chs. by two sets of chainmen is 11 links, position of middle point,  
 By 1st set, 80.05 $\frac{1}{2}$  chs.  
 By 2nd set, 79.94 $\frac{1}{2}$  chs., the mean of which is
- 80.00 Set an iron post 3 ft. long, 3 ins. in diam., in a mound of stone 3 ft. base, 2 $\frac{1}{2}$  ft. high for standard cor. of secs. 31 and 32, with brass cap, marked,  
 T 9 N R 14 W in N. half;  
 S 31 in NW., and  
 S 32 in NE. quadrants;  
 S C S of center;  
 1914 in S. rim;  
 build a mound of stone 3 ft. base, 3 ft. high, north of corner. Pits impracticable.  
 Land, mountainous.  
 Soil, rocky, 4th rate.  
 Timber, scattering scrub palo verde.  
 Undergrowth, greasewood brush, ocotillo and cholla cactus.
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- West, on south bdy. of sec. 31.  
 Over mountainous land.
- 20.00 Foot of descent; in draw, course SW.  
 22.00 Ascend SE. slope.  
 26.00 Top of ascent on south slope. Descend west slope.  
 31.00 Foot of descent; enter rolling land.  
 31.50 Ravine, 100 lks. wide, 6 ft. deep, course S. 60° W.  
 Difference bet. measurements of 40.00 chs. by two sets of chainmen is 6 lks., position of middle point,  
 By 1st set, 39.97 chs.,  
 By 2nd set, 40.03 chs., the mean of which is,
- 40.00 Set an iron post 3 ft. long, 1 in. in diam., in a mound of stone 3 ft. base, 2 $\frac{1}{2}$  ft. high, for standard  $\frac{1}{4}$  sec. cor. of sec. 31, with brass cap, marked,  
 S C  $\frac{1}{4}$  S 31 in N. half;  
 1914 in S. rim; pits impracticable;  
 build mound of stone 3 ft. base, 3 ft. high, N. of cor.
- 45.75 Dry wash, 100 lks. wide, 10 ft. banks, course SE.  
 50.00 Ascend NE. slope.  
 66.50 Top of ascent; descend SW. slope.  
 76.00 Foot of descent, dry wash, 75 lks. wide, 6 ft. banks, course NW.
- Difference between measurements of 80.00 chs. by two sets of chainmen is 5 links, position of middle point,  
 By 1st set, 80.02 $\frac{1}{2}$  chs.,  
 By 2nd set, 79.97 $\frac{1}{2}$  chs., the mean of which is
- 80.00 Set an iron post 3 ft. long, 3 ins. in diam., 8 ins. in the ground (could not set deeper for solid stone) build mound of stone 3 ft. base, 2 ft. high, around post for standard cor. of Ts. 9 N., Rs. 14 and 15 W, with brass cap, marked,  
 T 9 N in N. half;  
 R 15 W S 36 in NW., and  
 R 14 W, S 31 in NE. quadrant;  
 S C S of center,  
 1914 in S. rim;  
 build mound of stone 4 ft. base, 2 $\frac{1}{2}$  ft. high, N. of cor.  
 Pits impracticable.  
 Land, mountainous.  
 Soil, rocky, 4th rate.  
 Timber, scattering scrub palo verde.  
 Undergrowth, greasewood brush, ocotillo and cholla cactus.  
 June 18, 1914.
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GENERAL DESCRIPTION.

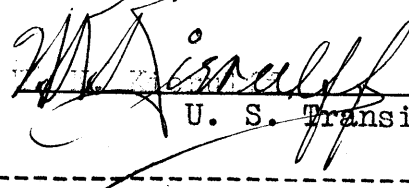
The Second Standard Parallel North, between Ts. 8 and 9 N., in Range 14 West, passes over level land, draining SW.

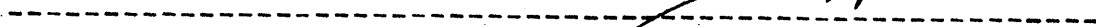
Sandy soil, 2nd rate for two miles on the east, and over mountainous land, rocky, 4th rate soil for four miles on the west.

Timber, scattering ironwood and palo verde throughout, and undergrowth of greasewood and cactus.

There is no water on or near the line, and no settlers.

No indications of mineral.

  
U. S. Transitman.







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BOOK 2837

FINAL OATH OF UNITED STATES TRANSITMAN.

I, W. K. Kierulff, Transitman, U. S. ~~Surveyor~~, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for Arizona, for Group 34 bearing date of the 11th day of February, 1914, 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 Second Standard Parallel North through Range 14 West.

of the Gila & Salt River Meridian, in the State of Arizona, which are represented in the foregoing field notes as having been executed by me, and under my direction; and I do further solemnly swear 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. Surveyor General for Arizona, for Group 34 and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

*W. K. Kierulff*  
U. S. ~~Surveyor~~.  
Transitman

Subscribed by said W. K. Kierulff, and sworn to before me }  
this 11 day of Sept, 1914

*Charles Post,*

County Clerk and Ex-Officio Clerk of the Superior Court  
in and for San Bernardino County, State of California



*J. E. ...*  
Deputy

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

*Phoenix, Arizona, DEC 30*, 1915

The foregoing field notes of the survey of the  
Second Standard Parallel North,  
thru Range 14 West  
of the Gila and Salt River Base and Meridian,  
in the State of Arizona

executed by W. K. Kierulff, U. S. Transitman  
under his special instructions dated February 11, 1914 for Group 34, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

*Surveyor General.*  
of Arizona.

~~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.~~

*Frank Ingalls*  
Surveyor General