

Accepted, Dept. letter June 28-07

Book B

125

BOOK 2096

2096

FIELD NOTES

OF THE SURVEY OF THE

2096

2096

RANGE LINE BET. T.P.S. 15 S. RS. 28 & 29 E., AND

FRAC. N. BDRY. T. 15 S. R. 28 E.

2096

Of the Gila and Sals River Base and Meridian,

Arizona.

AS SURVEYED BY

Jesse B. Wright, United States Deputy Surveyor,

Under his Contract No. 149, dated June 13, 1908

Survey commenced October 12, 1908

Survey completed October 15, 1908

2096

2096

2096

1A/26

BOOK 2096

NAMES AND DUTIES OF ASSISTANTS.

Walter L. Morrison Chairman

Walter Percival "

Harvey H. Cook "

Marcell Vandiver Nominations

Southern Vandiver, Treasurer

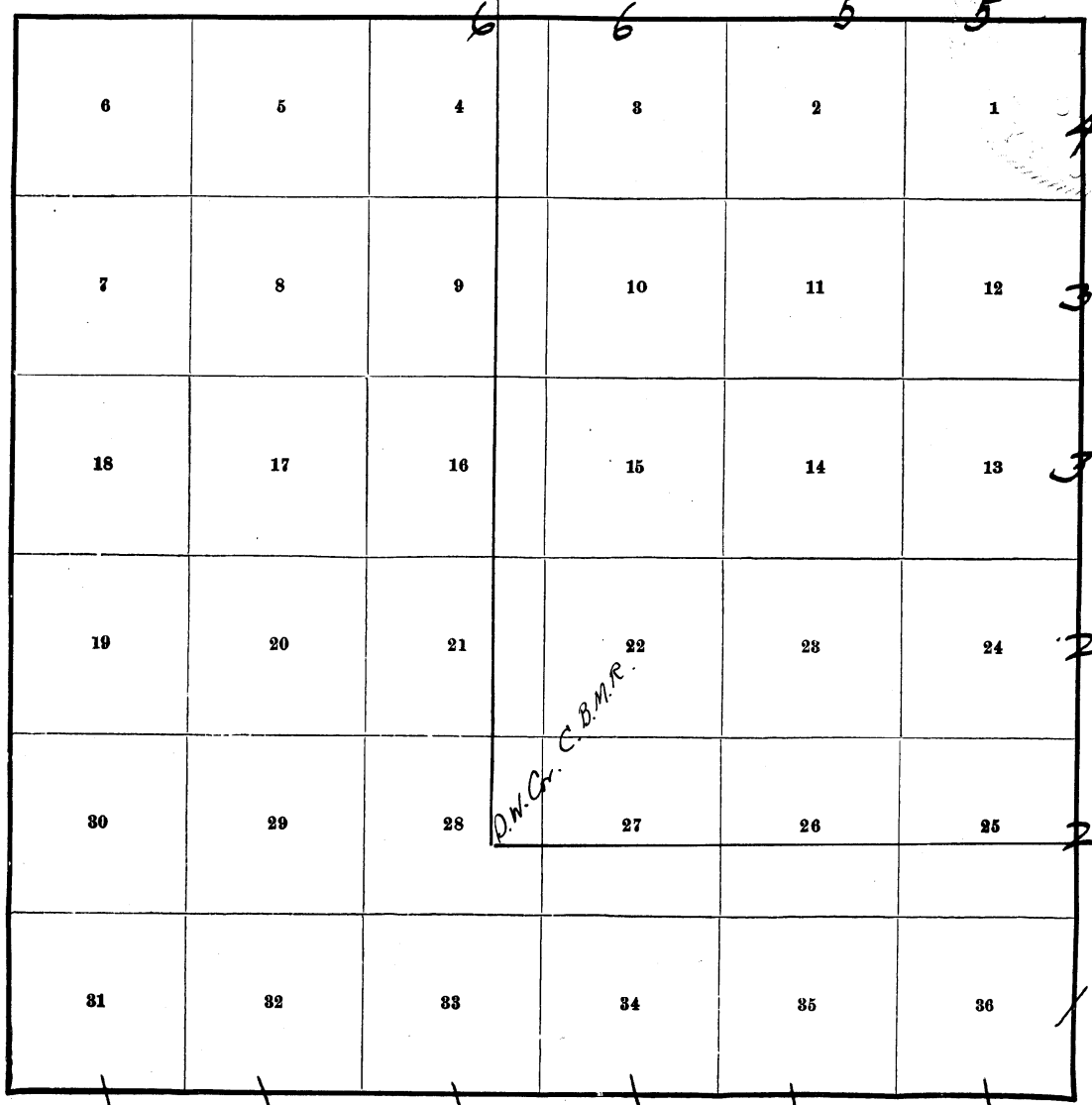
Frank Jones Auditor

BOOK 2096

Book No. 2096

INDEX DIAGRAM.

Township 15 S, Range 28 E



Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

WE, Walter L. Morrison and Harvey H. Cook
Walter Percival

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

Range line bet Tp. 15 S. Rs. 28 & 29 E. and Frac. N. by T15 S R 28 E

Walter L. Morrison, Chainman.

Walter Percival, Chainman.

Subscribed and sworn to before me this 5th day of October, 1908 } Harvey H. Cook "

My commission expires August 11, 1909



J. B. Penstemon
Notary Public

I, Manuel Vindola and

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

Range line bet Tp. 15 S. Rs. 28 & 29 E. & Frac. N. by T15 S R 28 E

Manuel Vindola, Moundman.

Moundman.

Subscribed and sworn to before me this 5th day of October, 1908 }



Jesse B. Wright
U. S. Deputy Surveyor

I, Frank Yates and

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

Range line bet Tp. 15 S. Rs. 28 & 29 E. and Frac. N. by T15 S R 28 E

Frank Yates, Axman.

Axman.

Subscribed and sworn to before me this 5th day of October, 1908 }



Jesse B. Wright
U. S. Deputy Surveyor

I, Santiago Vindola, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the

Range line bet Tp. 15 S. Rs. 28 & 29 E. and Frac. N. by T15 S R 28 E

Santiago Vindola Flagman.

Subscribed and sworn to before me this 5th day of October, 1908 }

My commission expires August 11, 1909



J. B. Penstemon
Notary Public

chains

In order to locate the Standard Cor. of Tps. 15 S., Rs. 28 and 29 E., I begin at the Stan. Cor. of Tps. 15 S., Rs. 27 and 28 E., which is a stake marked as described by the Surveyor General, with a stone set alongside, properly marked, which stone was set by me under former Contract No. 145, in order to perpetuate this corner. From this corner I retrace the Third Standard Parallel South through Range 28 East, finding the alignment and measurement excellent, but most of the corners nearly obliterated. I remark and reestablish this line up to and including the Stan. Cor. of Tp. 15 S., Rs. 28 and 29 E. This corner is a quartzite stone, 9 X 6 X 8 ins., above ground, marked as described by the Surveyor General. I raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor.

October 12, 1908.

At the Stan. Cor. above described, latitude 34° 48' 25" N, long. 109° 26' 39" W., having adjusted the levels and line of collimation of my instrument, which is W. & L. E. Gurley, Light Mountain Transit, Special, Not numbered, with Burt's patent solar attachment, the verniers of the plates reading to single minutes of arc, and the lat. and decl. arc reading to half minutes of arc. Finding my instrument in satisfactory adjustment, at 3 p.m., l.m.t., I set off 7° 30' S., on the decl. arc, and 32° 4' 30" N. on the lat. arc, and determine a meridian with the solar, and mark a point thereof by a tack in a stake driven in the ground 5.00 chs. N. of my station.

At 6h 7m a.m., l.m.t., I observe Polaris at Eastern elongation in accordance with instructions in the Manual, and mark the line thus determined by a cross stake stone firmly set in the ground 5.00 chs. N. of my station.

October 13th, 1908.

At 8h a.m., l.m.t., I set off the azimuth of Polaris 1° 24' to the W. and mark the meridian thus determined by a tack driven in a stake 5.00 chs. N. of my station, which point falls 1/8 of an inch E. of the meridian determined by solar observation of preceding night; then I set off 7° 45' S. on the decl. arc and 32° 4' 30" N. on the lat. arc, and determine a meridian with the solar, which meridian falls 1/16 in. E. of the meridian determined by Polaris observation.

From these observations I conclude that my instrument is in satisfactory adjustment.

Thence I run.

North, on the range line bet. secs. 31 and 36.

Var. 13° E.

Over heavy rolling land, descending.

- 3.00 Draw, 1.00 chs. wide, course SW. Ascend.
- 12.00 Top of knoll, extends SW., descend.
- 19.00 Draw, 2.00 chs. wide, course SW., ascend.
- 24.00 Top of knoll, extends SW., descend.
- 34.00 Draw, 1.00 ch. wide, course SW., ascend.
- 40.00 Set a limestone, 24 X 18 X 10 ins., 18 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stones, 3 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable.
- 66.25 Fence, brs. E. and W. Enter pasture of John Riggs.
- 68.00 Dry wash, 10 lks. wide, course W., ascend.
- 78.40 Set a limestone, 24 X 10 X 8 ins., 18 ins. in the ground, for witness cor. to cor. of secs. 25, 30, 31 and 36, marked W C on N., with 1 notch on N. and 5 notches on the S. edge, and raise a mound of stones, 2 ft. base, 1 1/2 ft. high, W. of cor., from which

BOOK 2096

chains

80.00 A willow 6 ins. diam., brs. N. 41° W., 140 lks. dist., marked T 15 S R 28 E S 36 W C B T. No other bearings available. Point for cor. of secs. 25, 30, 31 and 36 falls in dry wash, 1.00 ch. wide, course SW. Land, rolling and broken. Soil, 2nd rate. No timber; undergrowth, palmeo, yucca, native grass. Land heavily rolling or mountainous, 80.00 chs.

16.00 North, bet. secs. 25 and 30. Var. 13°. Over mountainous land, ascending. Draw, 1.00 ch. wide, course W.

36.43 Intersect the South Boundary of Camp Bowie Abandoned Military Reservation at a point from which the 6th mile cor. of same brs. S. 89° 58' W., 18.30 chs. Set a limestone, 30 X 15 X 12 ins., 24 ins. in the ground, marked C C on N., with 6 grooves on E. and W. faces, for closing cor. of secs. 25 and 30, and raise a mound of stones, 3 ft. base, 2 ft. high, N of cor. Pits impracticable. Begin steep ascent.

40.00 Set a limestone, 24 X 18 X 12 ins., 18 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face and raise a mound of stones, 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable.

46.00 Top of butte; descend.

53.00 Draw, 10 lks. wide, course W., ascend.

63.00 Top of ridge, extends E. and W., descend.

70.00 Draw, 15 lks. wide, course SW., ascend.

73.00 Top of ridge, extends SW. and NE., descend.

77.00 Draw, 20 lks. wide, course SW., ascend. gradually.

80.00 Set a limestone, 24 X 12 X 10 ins., 18 ins. in the ground, for cor. of secs. 29, 24, 25 and 30, marked with 2 notches on the S, and 4 notches on the N. edge, and raise a mound of stones, 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable. Land, mountainous. Soil, stony and gravelly; 2nd and 3rd rate. No timber; undergrowth, scattering scrub oak, cactus, palmeo and yucca. Mountainous land, 80.00 chs. At 11h 40m, a.m., l.m.t., I set off 7° 49 1/2' S. on the decl. arc, and observe the sun on the meridian; the resulting lat. is 32° 06' N.

40.00 North, bet. secs. 19 and 24. Ascending precipitous south slope of mountain. Set a limestone, 30 X 15 X 10 ins., 24 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor., from which

 An oak, 6 ins. in diam., brs. S. 17° W., 11 lks. dist., marked 1/4 S 24 B T.

 An oak, 6 ins. diam., brs. S 60° E., 10 lks. dist., marked 1/4 S 19 B T.

80.00 Point for cor. of secs. 13, 18, 19 and 24 falls on precipitous ground, perishable.

88.80 Top of high divide, extends E. and W. Set a limestone, 24 X 12 X 10 ins., 18 ins. in the ground, for witness cor. to cor. of secs. 13, 18, 19 and 24, marked with W C and 3 notches on N. and S. edges, and raise a mound of stones, 2 ft. base, 1 1/2 ft. high, W. of cor., from which

 A mound of stones 6 ft. high, on point of divide brs. S. 37° E., 5.12 chs. dist.

 A juniper, 30 ins. diam., brs. N. 36° E., 87 lks. dist., marked T 15 S R 29 E S 18 W C B T.

 A juniper, 30 ins. diam., brs. N. 23° 45' W., 128 lks. dist., marked T 15 S R 28 E S 13 W C B T.

Notch between peaks of Dos Cabezas brs. N. 57° 11' W.
 This cor. is on main divide, with high peaks E. and W., 20 chs. dist.
 No other trees available.
 Land, mountainous.
 Soil, stony; 3rd rate.
 Timber, scattering oak and juniper; undergrowth, dense scrub oak.
 Mountainous land, exceptionally difficult to survey, 80.00 chs.

October 13, 1908.

October 14, 1908. At 8h a.m., l.m.t., I set off 8° 7 1/2' S. on the decl. arc, 32° 7' N. on the lat. arc, and determine a true meridian with the solar at the cor. of secs. 13, 18, 19 and 24.

Thence I run, North, bet. secs. 13 and 18.

Var. 13° E.
 Ascending over mountainous land.

8.80 Witness cor. to cor. of secs. 13, 18, 19 and 24, as previously described.

40.00 Begin steep descent along steep slope of spur.
 Set a limestone 30 X 14 X 6 ins., 15 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stones, 2 ft. base, 1 1/2 ft. high, W. of cor., from which

An oak, 6 ins. diam., brs. S. 80° W., 82 lks. dist., marked 1/4 S 13 B T.

A juniper, 24 ins. diam., brs. N. 56° 45' E., 76 lks. dist., marked 1/4 S 18 B T.

46.25 Point of bluff, descend precipitously.
 80.00 Set a limestone, 24 X 12 X 10 ins., 18 ins. in the ground, for cor. of secs. 7, 12, 13 and 18, marked with 4 notches on S. and 2 notches on N edge, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W of cor. Pits impracticable.

Land, mountainous.
 Soil, stony; 3rd rate.
 Timber, pinon, oak and juniper; undergrowth, pinon, oak and juniper.
 Mountainous land, exceptionally difficult to survey, 80.00 chs.

At 11h 46m a.m., l.m.t., I set off 8° 12' S. on the decl. arc, and observe the sun on the meridian; the resulting lat. is 32° 9' N.

North, bet. secs. 7 and 12.
 Var. 13 1/2° E.

26.45 Over mountainous land, descending.
 Gulch, 20 lks. wide, course NE.

26.55 Road, brs. NW. and SE.

33.21 Point of ridge, extends NW. and SE; descend.

38.06 Initial point 7 1/2 lks. S. of original point of flag pole on parade ground of Old Camp Bowie is W. 19.61 Chs. dist.

40.00 Set a limestone, 20 X 10 X 8 ins., 15 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor., from which

A pinon, 6 ins. diam., brs. S. 60° W., 190 lks. dist., marked 1/4 S 12 B T.

No other tree available.

45.00 Draw, 10 lks. wide, course NE, ascend.

50.50 Top of hill, brs. SE. and NW, descend.

60.50 Gulch, 50 lks. wide, course NE., A good spring in this gulch brs. SW, 5.00 chs. dist.

63.67 Pipe line from spring to Tom Riggs ranch.

65.77 Old road, brs. NE. and SW. Ascend.

68.00 Low ridge, brs. NE., descend.

72.00 Draw, 10 lks. wide, brs. NE.

chains
80.00

BOOK 2096

Set a limestone, 24 X 12 X 10 ins., 18 ins. in the ground, for cor. of secs. 1, 6, 7 and 12, marked with 1 notch on the N. and 5 notches on the S. edge, and raise a mound of stones, 2 ft. base, 1½ ft. high, W. of cor., from which

A cedar, 10 ins. diam., brs. S. 19° E., 177 lks. dist., marked T 15 S R 29 E S 7 B T.

A cedar, 12 ins. diam., brs. N. 36½° E., 100 lks. dist., marked T 15 S R 29 E S 6 B T.

A cedar, 10 ins. diam., brs. N. 58° 45' W., 227 lks. dist., marked T 15 S R 28 E S 1 B T.

No other tree available.

Land, mountainous.

Soil, stony; 3rd rate.

Timber, scattering pinon and cedar; undergrowth, scattering pinon and cedar.

Mountainous land, exceptionally difficult to survey, 80.00 chs.

North, bet. secs. 1 and 6.

Var. 13° E.

Over mountainous land, ascending.

34.40 Top of high ridge, brs. E. and W., descend steeply.

39.80 Gulch, 10 lks. wide, course NE.

40.00 Set a porphyry stone, 30 X 10 X 10 ins., 24 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor., from which

A cedar, 24 ins. diam., brs. N. 47° E., 138 lks. dist., marked ¼ S 6 B T.

A cedar, 10 ins. diam., brs. S. 32° W., 58 lks. dist., marked ¼ S 1 B T/

46.00 Top of spur. extends NE., descend along NW. slope.

80.00 Foot of main slope.

Set a granite stone, 30 X 15 X 6 ins., 24 ins. in the ground, for cor. of Tps. 14 and 15 S., Rgs. 28 and 29 E., marked with 6 notches on the N., S., and E. edges, and raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor. Pits impracticable.

Land, mountainous.

Soil, stony; 2nd rate.

Timber, scattering cedar and oak and juniper; undergrowth, scrub oak, palmeto and yucca.

Mountainous land, exceptionally difficult to survey, 80.00 chs.

October 14, 1908.

General Description.

This line is run over a very broken, rough country, crossing the main divide at the highest, roughest point along the line. On the higher altitudes there is considerable oak and juniper timber, with some pinon. The ground is very stony and unfit for cultivation.

J. S. Deputy Surveyor.

chains	
	October 15, 1908. At the cor. of Tps. 14 and 15 S., Rs. 28 and 29 E., as previously described, at 8h am., l.m.t., I set off 8° 30' S. on the decl. arc, and 32° 10' N. on the lat. arc, and determine a true meridian with the solar.
	Thence I run, West, bet. secs. 1 and 36 Var. 13° 15' E. Over mountainous land, along broken north slope. Dry wash, 30 lks. wide, course N. Dry wash, 30 lks. wide, course N. Road, brs. NE. and SW. Set a limestone, 24 X 10 X 8 ins., 18 ins. in the ground, for witness cor. to 1/4 sec. cor., marked W C 1/4 on N. face, and raise a mound of stones, 2 ft. base, 1 1/2 ft. high, N. of cor. Pits impracticable. Enter main wash, course NE. Point for 1/4 sec. cor. falls in wash, impracticable to establish. Leave wash, begin steep ascent. Top of peak, 400 ft. above 1/4 sec. cor. Descend along SW. slope. Set a granite stone, 24 x 12 x 10 ins., 18 ins. in the ground, for cor. of secs. 1, 2, 35 and 36, marked with 1 notch on the E. and 5 notches on the W. edge, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor., from which A cedar, 30 ins. diam., brs. S. 81° E., 200 lks. dist., marked T 15 S R 28 E S 1 B T. A stone in mound of stones, marked 1-2368 brs. S. 18° E., 167 lks. dist. U.S.L.M. No. 2368 brs. N. 75° 53' E., 8.35 chs. dist Land, mountainous. Soil, stony; 2nd and 3rd rate. Timber, scattering cedar; undergrowth, mesquite and scrub oak. Mountainous land, 40.00 chs.; mountainous land, exceptionally difficult to survey, 40.00 chs. ----- West, bet. secs. 2 and 35. Var 13° 15' E. Over mountainous land, descending. Gulch, 30 lks. wide, course N., ascend. Top of spur from main ridge, extends N., descend. Eddy Spring brs. N., 60 lks. dist. A fine, permanent spring of pure water. Main Canyon, 150 lks. wide, course NE., ascend. Set a limestone, 20 X 10 X 8 ins., 15 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stones, 2 ft. base, 1 1/2 ft. high, N. of cor., from which A scrub oak, 6 ins. diam., brs. S. 47° 45' E., 110 lks. dist., marked 1/4 S 2 B T. no other bearings available. Ascend along S. slope of limestone ridge. Top of spur, extends S., descend. Canyon, 1.00 ch. wide, course SE. Same canyon, 1.00 ch. wide, course NE., ascend steeply. Gulch, 30 lks. wide, course S. Top of rocky spur, extends S. Set a granite stone, 15 X 8 ins., 18 ins. in the ground, for cor. of secs. 2, 3, 34 and 35, marked with 2 notches on the E. and 4 notches on the W. edge, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable. Land, mountainous. Soil, stony; 3rd rate. Timber, scattering oak and cedar; undergrowth, scrub oak, palmo, yucca and ocotillo. Mountainous land, exceptionally difficult to survey, 40.00 chs.
6.50	
8.80	
36.45	
36.60	
37.00	
40.00	
46.00	
69.38	
80.00	
4.10	
13.00	
35.50	
37.00	
40.00	
49.00	
59.00	
61.00	
70.50	
80.00	

In this mile see page 1 - Prof. notes here attached.

In this mile see page 1, sup. notes here attached.

BOOK 2096

chains At 11h 46m. a.m. 1.m.t., I set off 8° 34' S. on the decl. arc. and observe the sun on the meridian; the resulting lat. is 32° 9' 30" N.

West, bet. secs. 3 and 34.
 Var. 13° 15' E.
 Over mountainous land, ascending.
 16.33 Top of high supr, extends SE.; descend on SW. slope.
 40.00 Set a granite stone, 24 X 15 X 10' ins., 18 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor. Pits impracticable.
 42.00 Dry wash, 80.00 lks. wide, course S., ascend along SE. slope, over broken ground.
 Main ridge is paralleling along to N., about 20.00 chs. dist.
 80.00 Set a granite stone, 24 X 10 X 6 ins., 18 ins. in the ground, for cor. of secs. 3, 4, 33 and 34, marked with 3 notches on the E. and W. edges, and raise a mound of stones, 2 ft. base, 1 1/2 ft. high, W. of cor. from which
 An oak, 12 ins. diam., brs. N. 0° 30' W., 80 lks. dist., marked T 14 S R 28 E S 33 B T.
 A cedar, 18 ins. diam., brs. S. 7° W., 45 lks. dist., marked T 15 S R 28 E S 4 B T.
 An oak, 6 ins. diam., brs. N. 52° E., 122 lks. dist., marked T 14 S R 28 E S 34 B T.
 An oak, 15 ins. diam., brs. S. 86 1/4° E., 177 lks. dist., marked T 15 S R 28 E S 3 B T.

Land, mountainous.
 Soil, stony; 3rd rate.
 Timber, scattering oak and cedar; undergrowth, scrub oak, palmo and yucca.
 Mountainous land, exceptionally difficult to survey, 80.00chs.

West, bet. secs. 4 and 33.
 Var. 13° 15' E.
 Over mountainous land, ascending along S. slope of ridge.
 19.50 Intersect the west boundary of Camp Bowie Abandoned Military Reservation at a point 2.31 chs. S. of the 22 1/2 mile corner.
 Set a granite stone, 24 X 24 X 12 ins., 18 ins. in the ground, for closing cor. of tps. 14 and 15 S., Rs. 28 E., marked C C on E., P L on W., with 6 grooves on N. and S. faces, and raise a mound of stones, 2 ft. base, 1 1/2 ft. high, E. of cor. Pits impracticable.
 Land, mountainous.
 Soil, stony; 3rd rate.
 Timber, oak and cedar; undergrowth, scrub oak and cactus.
 Mountainous land, exceptionally difficult to survey, 19.50 chs.

October 15, 1908.

GENERAL DESCRIPTION.

This line runs over rough, broken country; the last two miles being along the S. slope of a high ridge, on which is some cedar and oak timber. The soil is limestone or granite and unfit for cultivation, being very stony and gravelly.

John B. Wright
S. S. Surveyor

Township 15-South, Range 28 East.

Line Designated	True Bearing	Distance	Latitudes		Departures	
			N.	S.	E.	W.
W. Bdy.	N.0°9'W.	240.00	240.00			.63
W. Bdy.	N.0°4'E.	123.16	123.16		.13	
N. Bdy.	East	259.50		259.50		
E. Bdy.	South	363.57		363.57		
S. Bdy.	S89°58'W.	258.30		.15		258.30
Convergency					.17	
			363.16	363.72	259.80	258.93
				363.16	258.93	
		Error in lat.		.56	.87	Error in dep.

Township 14-South, Range 28 East.

Line Designated	True Bearing	Distance	Latitudes		Departures	
			N.	S.	E.	W.
W. Bdy.	N.0°4'E.	118.90	118.90		.14	
N. Bdy.	East	258.53		258.53		
E. Bdy.	South	118.75		118.75		
W. Bdy.	West	259.50				259.50
Convergency					.06	
			118.90	118.75	258.73	259.50
			118.75			258.73
		Error in lat.	.15	Error in dep.		.77

Jesse P. Wright
U. S. Deputy Surveyor.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Jesse B Wright

a, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of Rancho line bet Sp. 15-S. R. 28 & 29 E. and True N. by T 15 S R 28 E. showing the respective capacities in which they acted:

- Walter L. Morrison, Chairman.
- Walter Precival, Chairman.
- Harvey H. Cahoe, Chairman.
- Manuel Vindola, Moundman.
- Frank Jones, Axman.
- Santiago Vindola, Axman.
- , Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Jesse B Wright

a, United States Deputy Surveyor, in surveying all those parts or portions of the Rancho line bet. Sp. 15-S R 28 & 29 E and True N. by T 15 S R 28 E.

of the Gila and Salt River meridian, Tr. of Arizona, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Arizona

- W L Morrison Walter L Morrison, Chairman.
- Walter Precival, Chairman.
- Harvey H. Cahoe, Chairman.
- Manuel Vindola, Moundman.
- Frank Jones, Axman.
- Santiago Vindola, Axman.
- , Flagman.

Subscribed and sworn to before me this 28th day of October, 190 8

W L Morrison



87
BOOK 2096

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Jesse B. Wright, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Frank S. Ingalls United States Surveyor General for Arizona, bearing date of the 13th day of June, 1908, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Arizona, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of The Range line bet. Tps. 15-S. R. 28 & 29 E. and from N. by of T. 15-S. R. 28 E.

of the Gila and Salt River meridian, in the 2nd of Arizona, which are represented in the foregoing field notes as having been surveyed 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 United States Surveyor General for Arizona and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Jesse B. Wright
United States Deputy Surveyor.

Subscribed by said Jesse B. Wright, and sworn to before me
this 28th day of October, 1908

W. L. ...
W. L. ...



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Arizona, April 14, 1909

The foregoing field notes of the survey of the range line between Tps. 15-S. R. 28 and 29 E., and the free North boundary of T. 15-S. R. 28 E., of the Gila and Salt River Base and Meridian, Arizona

executed by Jesse B. Wright U.S. Deputy Surveyor under his contract No. 149, dated June 13, 1908, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Frank S. Ingalls
United States 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.

United States Surveyor General.

FEB. 13 1909 140
copied upl. 7/09
B.P.

Book B.

Supplemental
FIELD NOTES BOOK 2096

OF THE SURVEY OF THE

North Boundary of T. 15 S. R. 28 E.

Series of horizontal dashed lines for handwritten notes.

Of the Gila & Salt River Base & Meridian,
Arizona.

AS SURVEYED BY

Jesse B. Wright, United States Deputy Surveyor,

Under his Contract No. 149, dated June 13, 1908, 190

Survey commenced February 9, 1909, 190

Survey completed February 9, 1909, 190

NAMES AND DUTIES OF ASSISTANTS.

Walter Percival Channing
Walter L. Morrison "

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

Meanders Page _____

PRELIMINARY OATHS OF ASSISTANTS.

WE, Walter Percival and Walter L. Morrison
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

North Bly Sp 15 S. R 28 E.

Walter Percival, Chainman.

Walter L. Morrison, Chainman.

Subscribed and sworn to before me this 6th
day of February, 1909



[Signature]
W. C. [Signature]

WE, _____ and _____
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

_____, Moundman.

_____, Moundman.

Subscribed and sworn to before me this _____
day of _____, 190 _____



WE, _____ and _____
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

_____, Axman.

_____, Axman.

Subscribed and sworn to before me this _____
day of _____, 190 _____



I, _____, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of _____

_____, Flagman.

Subscribed and sworn to before me this _____
day of _____, 190 _____



See orig. notes page 5.

See orig. notes page 5.

- Chains
- Surveys begun Feb. 9, 1909 and executed with a W. & L.E. Gurley light mountain transit, with solar attachment same instrument as used in orig. survey and described in field notes thereof.
- Knowing from recent tests that my instrument is in satisfactory adjustment, I begin at the cor. of Tps. 14 & 15 S. Rs. 28 & 29 E. as described in orig. notes.
- At this cor. at 9h a.m., l.m.t., I set off $14^{\circ} 42'$ S. on the decl. arc and $32^{\circ} 10'$ N. on the lat. arc and determine a true mer. with the solar.
- Thence I run,
West, on N. bdy. sec. 1
Over mts. land asc. grad. over broken ground along N. slope.
Var. $18^{\circ} 15'$ E.
- 6.50 Wash, 30 lks. wide, course N.
8.80 Wash, 30 lks. wide, course N.
36.50 Road, brs. N. E. & S.W.
36.73 The orig. Witness cor. of 1/4 sec. cor. which is a Limestone $24 \times 10 \times 8$ ins. set 18 ins. in the ground marked W.C. 1/4 on N. face, with mound of stone 2 ft. base $1 \frac{1}{2}$ ft. high N. of cor.
No bearings available.
- 40.00 Cor. point for 1/4 sec. cor. falls in main wash 8 chs. wide, course N.N.E.
- 46.00 Leave wash & asc. steep E. slope of mtn.
70.00 Top of peak 400 ft. above 1/4 sec. cor. desc. along rough S.W. slope.
- 79.70 Orig. cor. of secs. 1, 2, 35 & 36, which I destroy.
80.00 Set a granite stone $24 \times 12 \times 10$ ins. 18 ins. in the ground for cor. of secs. 1, 2, 35 & 36, marked with 1 notch on E. & 5 notches on W. edges and raise a mound of stone 2 ft. base $1 \frac{1}{2}$ ft. high W. of cor. from which
A cedar tree 30 ins. diam. brs. S. 83° E. 230 lks. dist. marked T. 15 S. R. 28 E. S. 1 B.T.
U.S.L.M. No. 2368 brs. N. 77° E. 8.55 chs. dist. which is a post in mound of stone marked and witnessed as described by the Surveyor General.
- Land Mts. soil, stony, 3rd rate.
Timber, scattering cedar. Undergrowth scrub oak mes.
Mts. land exc. difficult to survey, 80.00 chs.
From this cor. the 1/4 sec. cor. bet. secs. 1 & 2 of T. 15 S. R. 28 E. is plainly visible and bears S. $0^{\circ} 01'$ E. distance remaining unchanged.
- 000000-----
- West, on N. bdy. sec. 2.
Over mts. land desc. steep.
- 4.10 Gulch 30 lks. wide, course N. asc. steep.
13.00 Top of spur from main ridge, brs. N. desc. steep.
18.50 Gulch, brs. N. 30 lks. wide. Head is 10 chs. S. asc.
31.00 Top of spur, brs. N. desc.
35.50 Eddy Spring, 60 lks. N. from which runs a bout 10 miles inches of fine clear water, which is carried by pipe line to ranch of J. Lawhern.
- 37.00 Centre of main canyon, 150 lks. wide, course N.E.
39.90 Orig. 1/4 sec. cor. on line which I destroy.
40.00 Set a limestone $24 \times 10 \times 8$ ins. 18 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face and raise a mound of stone 2 ft. base $1 \frac{1}{2}$ ft. high N. of cor. from which, a scrub oak 6 ins. diam. brs. S. 50° E. 115 lks. dist. marked 1/4 S. 2 B.T.
No other bearings available.
asc. steep.
- 49.00 Top of spur, brs. S. desc. along S. slope.
59.00 Canyon, 1 ch. wide, course S.E.
61.00 Same canyon, brs. N.E. asc. steep. along S. slope.
70.50 Gulch 30 lks. wide course S.
80.00 Top of rocky spur, course S. to orig. cor. of secs. 2, 3, 34 & 35, which is a granite stone $24 \times 15 \times 8$ ins. set

Chains.

24 ins. in the ground marked with 2 notches on E. and 4 notches on W. edges with mound of stone 2 ft. base 1 1/2 ft. high W. of cer. No bearings available.
Land mts. Soil, stony, 3rd & 4th rate.
Timber, scattering cottonwood in canyon, cedar, mes.
Undergrowth, scrub oak, cacti.
Mts. land exceptionally difficult to survey, 80.00 chs.
Here I discontinue my retracements of this line.

James W. Wright
U.S. Deputy Surveyor.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

1415

BOOK 2096

LIST OF NAMES.

A list of the names of the individuals employed by James B. Wright

a, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of

North Bdy. Tp. 15 S. R. 28 E.

showing the respective capacities in which they acted:

Walter Percival, Chainman.

Walter D. Morrison, Chainman.

Moundman.

Moundman.

Axman.

Axman.

Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted James B. Wright

a, United States Deputy Surveyor, in surveying all those parts or portions of the

North Bdy. of Tp. 15 S. R. 28 E.

of the Meridian meridian, T. 15 S. of Oregon, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Oregon

Walter Percival, Chainman.

Walter D. Morrison, Chainman.

Moundman.

Moundman.

Axman.

Axman.

Flagman.

Subscribed and sworn to before me this 11th

day of February, 1909



W. H. ...
U.S. Commissioner

BOOK 2096

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Jesse B. Wright, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Frank S. Engell United States Surveyor General for Arizona, bearing date of the 13th day of June, 1908, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Arizona, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of

North Boundary of Sp 15 S. R. 28 E.

of the Gila and Salt River meridian, in the Territory of Arizona, which are represented in the foregoing field notes as having been surveyed 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 United States Surveyor General for _____ and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Jesse B. Wright
United States Deputy Surveyor.

Subscribed by said Jesse B. Wright, and sworn to before me this 11th day of February, 1909

W. H. ...
U.S. Commissioner



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Arizona, April 14, 1909
Supplemental
The foregoing field notes of the survey of the North Boundary of Sp. 15 S. R. 28 E. of the Gila and Salt River Meridian, Arizona

executed by Jesse B. Wright U.S. Deputy Surveyor under his contract No. 149, dated June 13, 1908, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Frank S. Engell
United States 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.

United States Surveyor General.