

1869

Book "C"

BOOK 1869

# FIELD NOTES

OF THE SURVEY OF THE

West Boundary

of

T. 10 S., R. 9 E.

1869

1869

Of the Gila and Salt River Base Meridian,

AS SURVEYED BY

Edgar C. Dietrich, United States Deputy Surveyor,

Under his Contract No. 137, dated August 15, 1905

Survey commenced October 28, 1905

Survey completed October 29, 1905

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NAMES AND DUTIES OF ASSISTANTS.

John M. Trayer, Chairman  
Walter Percival, Chairman

Sipriana Villa, Moundman.

Juan Sanchez, Axman

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INDEX DIAGRAM.

Township 10 S, Range 9 E

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30	29	28	27	26	25
31	32	33	34	35	36

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PRELIMINARY OATHS OF ASSISTANTS.

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WE, John M. Trayer and 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 the West Boundary of T. 10 S. R. 9 E.

John M. Trayer, Chainman.  
Walter Percival, Chainman.

Subscribed and sworn to before me this 20<sup>th</sup>  
day of October, 1905

W. G. Power



WE, Sipriana Villa 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 <sup>me</sup> us, to the best of <sup>my</sup> our skill and ability, in the survey of the West Boundary of T. 10 S. R. 9 E.

Sipriana Villa, Moundman.  
Moundman.

Subscribed and sworn to before me this 20<sup>th</sup>  
day of October, 1905

W. G. Power



WE, Juan Sanchez 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 <sup>me</sup> us, to the best of <sup>my</sup> our skill and ability, in the survey of the West Boundary of T. 10 S. R. 9 E.

Juan Sanchez, Axman.  
Axman.

Subscribed and sworn to before me this 20<sup>th</sup>  
day of October, 1905

W. G. Power



I, Mmanuel Salazar, 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 the West Boundary of T. 10 S. R. 9 E.

Mmanuel Salazar, Flagman.

Subscribed and sworn to before me this 20<sup>th</sup>  
day of October, 1905

W. G. Power



Chains

Survey commenced October 28, 1905, and executed with a Young and Sons light mountain transit, No 5607, with 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.

The instrument was examined, tested on the true meridian at Phoenix, found correct, and was approved by the surveyor general for Arizona.

I examined the adjustments of the transit, and correct the level and collimation errors; 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 found as follows:

At the standard <sup>closing</sup> cor. of S. 10 S., R. 9 E., recently established by me, latitudes  $32^{\circ}30'25''$  N., longitudes  $111^{\circ}28'5''$  W.; I set off  $32^{\circ}30'$  N.; on the lat. arc;  $13^{\circ}07'S$ , on the decl. arc; and, at  $3^h 26^{m}$  p.m., l.m.t., determined with the solar meridian and mark a point thereof, on a stone firmly set in the ground, 5 chs. N. of the cor.

October 28, 1905.

October 29: At  $4^h 42^{m}$  a.m., l.m.t., by my watch, which is correct, I observed Polaris at eastern elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined, on a peg driven in the ground, 5 chs. N. of my station.

At  $7^h 20$  a.m., l.m.t., I lay off the azimuth of Polaris,  $7^{\circ}25'$  to the East, and mark the meridian thus determined, by cutting a small groove in the stone set October 28, on which the meridian falls 03ins. East of the mark determined by the solar.

At  $8^h 55^{m}$  a.m., l.m.t., I set off  $32^{\circ}30\frac{1}{2}''$  N. on the lat. arc;  $13^{\circ}22'S$  on the decl. arc; and mark

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chains a point in the meridian determined with the solar, by a cross on the stone already set 5 chs N. of my station; this mark falls 0.5 ins. East of the meridian established by the Polaris observation.

The solar apparatus, by p.m. and a.m. observations, confirms positions for meridians, respectively about 26" and 16" E of the meridian established by the Polaris observations, therefore, I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 9<sup>h</sup> 12<sup>m</sup> a.m. is N. 13<sup>o</sup> 25' N. the angle thus determined gives the mag. decl. 13<sup>o</sup> 25' E.

Shaver & run

North on N. edge of sec. 31, over mountainous land, ascending through scattering pale wood timber and brush

20.00 Gulch, 30 lbs. wide, course S. W.; ascend steeply.

28.40 Top of rocky ridge, bears E. and W.; descend through dense pale woods.

40.00 Set a malpais stone 18 x 10 x 8 ins., 12 ins. in the ground, for 1/4 sec. cor. marked 4 on E. face; and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, E. of cor. Fits impracticable.

51.00 Set, bears E. and W.; thence over gently rolling land.

73.00 Dry wash, 50 lbs. wide, course N. W.

80.00 Falls in dry wash, 30 lbs. wide, course N. W.

80.50 Set a malpais stone, 18 x 10 x 8 ins., 12 ins. in the ground, for witness cor. to cor. of secs. 31 and 30, marked N 6 on N.W. face, with 1 notch on S. and 5 notches on N. edge; from which a pale wood 6 ins. diam. bears S 29 3/4 E., 115 lbs. dist., marked <sup>W.C.</sup> S 10 S R 9 E S 31 B D. north ~~thence~~; and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, E. of cor. Fits impracticable.

Land, mountainous and gently rolling. Soil, gravelly, stony and rocky; 3rd and 4th rates. Timber, pale woods; more growth, pale woods and cacti.

Giant cactus.

Chains Mountains or land covered with dense undergrowth, 80.00 chs.

North, on W. edge of sec. 30, from cr. point. Over gently rolling land, through scattering palo verde timber and dense brush.

.50 Witness cr.

17.50 Middle of single track of the Silver Bell railroad, bears N. 18° 32' E. and S. 18° 32' W.

24.74 Telephone line from Red Rock to Silver Bell, bears E. W. and W. S. W.

28.20 Dry wash, 35 lbs. wide, course N.W.

35.50 Road, bears N.W. and S. W.

40.00 Set a malpais stone, 15 x 8 x 5 ins., 12 ins. in the ground, for  $\frac{1}{4}$  sec. cr. marked  $\frac{1}{4}$  on E. face; from which

A palo verde, 8 ins. diam., bears N. 50° 20' E., 73 lbs. dist., marked  $\frac{1}{4}$  S 30 B D.

A mesquite, 5 ins. diam., bears S. 33° 20' E., 32 lbs. dist., marked  $\frac{1}{4}$  S 30 B D.

45.20 Dry wash, 30 lbs. wide, course N.W.

55.00 Dry wash, 30 lbs. wide, course N.W.

74.30 Enter same wash, course N.

79.30 Leave wash course N. N. W.

80.00 Set a malpais stone, 18 x 8 x 8 ins., 12 ins. in the ground, for cr. of secs. 19 and 30, marked with 2 notches on S. and 4 notches on N. edge; from which

A palo verde, 7 ins. diam., bears N. 22° 20' E., 112 lbs. dist., marked S 10 S R 9 E S 19 B D.

A palo verde, 8 ins. diam., bears S. 54° 20' E., 112 lbs. dist., marked S 10 S R 9 E S 30 B D.

Land, level and gently rolling.

Soil, sandy loam, gravelly and stony; 2nd, 3rd and 4th rats.

Timber, scattering palo verde, mesquite and ironwood; underground, palo verde, mesquite, grassland, baccharis and cacti.

Grain cactus.

Dense undergrowth, 80.00 chs.

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Chains North, on N. bdy. of sec. 19.  
Over level land, through scattering timber and dense brush.

20.70 Dry wash, 20 lbs. wide, course NW.

32.60 Road, bears NW. and S. W.

40.00 Set a malpais stone, 18x10x5 ins., 12 ins. in the ground, for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on E. face; from which a mesquite, 6 ins. diam., bears S. 51° 40' E., 132 lbs. dist., marked  $\frac{1}{4}$  S 19 B S.; northward within limit; dig pits, 18x18x12 ins., N. and S. of stone, 3 ft. dist.; and raise a mound of earth, 3  $\frac{1}{2}$  ft. base, 1  $\frac{1}{2}$  ft. high, E. of cor.

53.00 Round cut, bears E., about 20.00 chs. dist.

80.00 Set a malpais stone, 18x8x6 ins., 12 ins. in the ground, for cor. of secs. 18 and 19, marked with 3 notches on N. and S. edges; from which a mesquite, 7 ins. diam., bears N. 81° 12' E., 53 lbs. dist., marked S 10 S R 9 E S 18 B S.

A mesquite, 10 ins. diam., bears S. 50° 10' E., 216 lbs. dist., marked S 10 S R 9 E S 19 B S.

Land, level.

Soil, sandy loam; 2nd and 3rd rate.

Timber, scattering mesquite, palo verde and ironwood; undergrowth, mesquite, grasswood, Ysota and cacti.

Grass cactus.

Dense undergrowth, 80.00 chs.

October 29. At this cor. I set off 13°-25' S. on the decl. arc; and at 12<sup>h</sup> 5<sup>m</sup> l. m. t., observe the sun on the meridian. the resulting lat. is <sup>32° 33' 7"</sup> 32° 34' or within 1' of the proper lat.

North, on N. bdy. of sec. 18.

Over level land, through scattering mesquite timber and dense grasswood.

15.00 Cross mesquite and grasswood; begin steep ascent, bears E. and W.

37.00 Top of E. slope of mountain; descend.

40.00 Set a malpais stone, 18x9x6 ins., 12 ins. in the ground, for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on E. face; and raise a mound of stone, 2 ft. base, 1  $\frac{1}{2}$  ft. high, E.



- Chains of cor. corners near  
 58.00 Foot, bars E. and W.; thence over level land, through  
 dense grasswood.
- 80.00 Set a malpais stone, 18x8x8 ins., 12 ins. in the  
 ground, for cor. of secs. 7 and 18, marked with  
 2 notches on N. and 4 notches on S. edge; dig  
 pits, 24x24x12 ins., in each sec., 6 ft. dist.; and  
 raise a mound of earth, 4 ft. base, 2 ft. high,  
 E. of cor.  
 Sand, level.  
 Soil, sandy loam and stony; 2nd, 3rd and  
 4th rats.  
 Timber, scattering mesquite and palo verde;  
 undergrowth, grasswood, palo verde and cactu.  
 Giant cactus.  
 Mountains on land covered with dense un-  
 dergrowth, 80.00 chs.

- North, on N. bdy. of sec. 7.  
 Over level land, through scattering mesquite  
 timber and dense grasswood.
- 24.00 Enter dense timber; bare grasswood, bars E. and W.
- 20.40 Shr. Arca arroyo, 20 lbs. rich, course N. W.
- 40.00 Set a malpais stone, 18x7x6 ins., 12 ins. in the  
 ground, for 4 sec. cor. marked 4 on E. face; dig  
 pits, 18x18x12 ins., N. and S. of stone, 3 ft. dist.;  
 and raise a mound of earth, 3½ ft. base, 1½ ft.  
 high, E. of cor.
- 25.00 Bare sunflowers; under grasswood, bars E. and W.
- 80.00 Set a malpais stone, 18x8x5 ins., 12 ins. in the  
 ground, for cor. of secs. 6 and 7, marked with 5 notches  
 on S. and 1 notch on N. edge; dig pits, 24x24x12  
 ins., in each sec., 6 ft. dist.; and raise a mound of  
 earth, 4 ft. base, 2 ft. high, E. of cor.  
 Sand, level.  
 Soil, alluvial and sandy loam; 1st, 2nd and 3rd  
 rats.  
 Timber, scattering mesquite; undergrowth, grass-  
 wood, mesquite and sunflowers.  
 Dense undergrowth, 80.00

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- Chams/ North, on N. bdy. of sec. 6.  
 Corr. level land, through dense grasswood.
- 1.10 Road, bears N.W. and S.W.
- 16.75 Dry wash, 30 lbs. wide, course W.
- 40.00 Set a malpais stone, 18x6x5 ins., 12 ins. in the ground, for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on E. face; dig pits, 18x18x12 ins., N. and S. of stone, 3 ft. dist.; and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, E. of cor.
- 72.50 Santa Cruz river, 17 ch. wide, course N.W.
- 83.92 Enter sec. N. bdy. of the Sp. at a point from which the cor. of Sp. 9 S., Rs. 8 and 9 E., as heretofore described, bears E., 338 lbs. dist.  
 Set a malpais stone, 18x6x5 ins., 12 ins. in the ground, for closing cor. of Sp. 10 S., Rs. 8 and 9 E., marked 66 on S.; with 6 runners on E., W. and S. faces; dig pits, 30x24x12 ins., crosswise on each line, E. and W., 4 ft., and S. of stone, 8 ft. dist.; and raise a mound of earth, 5 ft. base, 2 ft. high, S. of cor.  
 Land, level.  
 Soil, sandy loam, 2nd and 3rd rate.  
 Timber, scattering mesquite, underground, grasswood.  
 Dense underground, 83.75 chs.

October 29, 1905.

## General Description.

Sp. 10 S., R. 8 E., is mostly level, the southwestern part being mountainous.

Edgar C. Dietrich  
 W. S. Deputy Surveyor.

LIST OF NAMES.

A list of the names of the individuals employed by Edgar C. Dietrich  
....., 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 the West  
Boundary of T. 10 S., R. 9 E.  
showing the respective capacities in which they acted:

- John M. Trayer, Chairman.
- Walter Percival, Chairman.
- Syriana Villa, Moundman.
- ....., Moundman.
- Juan Sanchez, Axman.
- ....., Axman.
- Manuel Salazar, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Edgar C. Dietrich  
....., United States Deputy Surveyor, in surveying all  
those parts or portions of the West Boundary of T. 10 S., R. 9 E.

..... of the Gila and  
Salt River base meridian, Territory 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

- John M. Trayer, Chairman.
- Walter Percival, Chairman.
- Syriana Villa, Moundman.
- ....., Moundman.
- Juan Sanchez, Axman.
- ....., Axman.
- Manuel Salazar, Flagman.

Subscribed and sworn to before me this 22nd  
day of November, 1905

H. G. Power



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I, Edgar C Dietrich United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from M. S. Ingalls United States Surveyor General for Arizona, bearing date of the 15<sup>th</sup> day of August, 1905, 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 West Boundary of T. 10 S., R. 9 E.

of the Gila and Salt River base 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 Arizona and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Edgar C Dietrich  
United States Deputy Surveyor.

Subscribed by said Edgar C Dietrich and sworn to before me }  
this 2nd day of January, 1906



Wescoe Hale  
U. S. Commissioner

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Arizona, April 20<sup>th</sup>, 1906  
The foregoing field notes of the survey of the West Boundary of T. 10 S., R. 9 E. of the Gila and Salt River Base and Meridian in the Territory of Arizona

executed by Edgar C. Dietrich U. S. deputy surveyor under his contract No. 137, dated August 15<sup>th</sup> 1905, ~~1906~~, 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.