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WEST BOUNDARY	
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OF	· · · · · · · · · · · · · · · · · · ·
TOWNSHIP 20 Sout	h
RANGE 18 EAST.	·
\$ 5	
Of the GILA & SALT RIVER	
ARIZOI	
AS SURVEYE	ED BY
Casimero R. Barthelemy	, United States Deputy Surveyo
Under his Contract No. 139, dated	April 14,, 190
Survey commenced	June 10, 190
Survey completed	June 11, 190
6—161 °	
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BOOK 1910 NAMES AND DUTIES OF ASSISTANTS. Arthur Poque, Chainman, Harry Mallory Chainman, Louis Renaud, Moundman, L. & Millar, Annan H. B. Millikew, Plagman, 6-151

BOOK 1910 Book No 1910

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INDEX DIAGRAM.

Township 20 South, Range 18 East

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	4	6	5	4	8	2	ĩ
12	3	7	8	9	10	11	12
13	3	18	17	16	15	14	13
24	2	19	20	21	22	28	24
25		80	29	28	27	26	25
36		81	82	88	34	85	36

Meanders Page

--101

BOOK 1910 PRELIMINARY OATHS OF ASSISTANTS. thur Poque and Harry Mallory 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 Recurred of Whit Boundary of J20 S. R 18 E. arthur Voque, Chainman. Harry Mallorep, Chainman. Subscribed and sworn to before me this _____, 1906 day of ine Power I WE Louis Renaardand ... 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 Rounary West Boundary & Of 9205. R 186 LouisRemand Moundman. Moundman. Subscribed and sworn to before me this day of _ Nr. G. Power I was S. C. Millor _____ 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 Mest Boundary of \$20 S. R 18 E. Lle. Millar Axman.Subscribed and sworn to before me this., 190 6 day of I, A . B. M. Illi Karther in the 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 of West Boundary - 7 920 S R 18 6 illikon Subscribed and sworn to before me this 1000 , 190 6 day of Nr. G. Power 6-151

Survey commenced June 10, 1906, and executed with a W. and L.E. Gurley light mountain transit No. 1000B., 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 arc. The instrument was examined, tested on the true meridian

at Phoenix, found correct, and was approved by the surveyor general for Arizona on June 5, 1906. I examined the adjustments of the transit, and correct the level and collimation errors, then, to test the solar apparatus, by comparing its indiactions, resulting from solar observations made during a.m and p.m. hours, with a meridian determined by observations on Polaris, I proceed as follows:

At the closing corner of secs. 31 and 36, T. 20 S., Rg. 19 and 18 E., on the San Ignacio del Babocomari Land Grant, in latitude 31° 39'N, longitude 110° 31' 30" W., I set off 31° 39' N. or the lat. arc; 23° 01' N., on the decl. arc; and at 5 h. p.m., l.m.t., determine with the solar a meridian and mark a point thereof, on a stone firmly set in the ground, 5 chs. N. of the cor. June 10, 1906.

June 11: At 2 h. and 14 m., a.m., 1.m.t., I observe Polaris at eastern elongation in accordance with Mamual of Instruction and mark a point in the line thus determined on a peg driven in the ground 5 chs. N. of my station. At 6 hs., a.m., l.m.t., I lay off the azimuth of Polaris, I° 24^{t} to the west, and mark the meridian thus determined by cutting a small groove in the stone set June 10, dn which the meridian falls .3 ins. E. of the mark-determined by the solar. At 7.30 a.m., I set off 31° 39' non the lat. arc; 23° 4' non the decl. arc, and mark a point in the meridian determined with the solar by a cross in the stone already set 5 chs. N. of my station; this mark falls .2 ins. E. of the meridian established by the Polaris observations; The solar apparatus by the a.m and p.m. observations defines positions for meridians respectively about $16^{"}/W$. and 10" E./of the meridian established by the Polaris observations. Therefore I conclude that the adjustments of the instruments are satisfactory. The magnetic bearing of the true meridian at 7 h, 30 m.

a.m. is N. 12° 45' E.

BOOK 1910

Chains	
ANGTIN	From the closing corner of sec. 31 and 36, T. 20-S.,
	Rs. 17 and 18 E., which is a sanstone 12 X 8 X 6 ins.
	above ground, marked and witnesses as described by the
	Surveyor General.
Kalo Station	
	I run North bet. secs. 31 and 36
bruar <u>a</u>	Over gently rolling land
22.50	Drew 140 1ks. wide course East.
39.18	Intersect cor. of secs. 25 and 36, which is a limestone
	8 X 8 X 6 ins. above ground, properly marked and wit-
	nessed. Could find no trace of pits; therefore I
a stational a stational	reestablish this cor. by digging pits 24 X 24 X 12 ins.
×	in each sec., 6 ft. dist. and raised a mound of earth 4
t	ft. base, 2 ft. high, W. of cor.
i ne provinsi i recordina	Land, gently rolling,
	Soil, gravelly loam; 2nd and 3rd rate.
	No timber.
• • •	
	From cor. of secs. 25 and 36 old 2 sec. cor. brs. N.
	0° 8' E.
	Therefore I run
	H. O 81 E. on the E. bdy. of sec. 25.
j.t≹j.r	Over gently rolling land
17_85	Road bears East and West.
	Draw 1.00 ch. wide course West.
39 90	Old 1 sec. cor. stone properly marked, but find no
~~*~~	trace of pits.
EAR	I reestablish this corner at same point as follows:
0.1 >	Set a silicate stone 18 X 6 X 6 ing. 12 ing. in the
	ground for 2 sec. cor. marked 2 on the W. Tace; dug
	Bround for T sec. cor, marked T on the west des, and
	pits 18 X 18 X 12 ins. N. and S. of stone 5 ft. dist.;
	and raised a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high,
🍖	W. vol cor.
	From + sec. cor. old sec. cor. of secs. 24 and 25 brs.
	N. Co 91 L.
	Therefore I run
د اد. ما کنو ا	N. OO 9' E.
	Road bears East and West.
31.74	Wire fence brs. S. 89º 15 [‡] W. and N. 89º 15 [‡] E.
	Railroad brs. S. 89º 15' W. and N 89º 15' E.
33.88	Telegraph line brs. S. 89º 15* W and N. 89º 15* E.
89.70	Old sec, sor, which is a sandstone S X 7 X 6, ins. above
	ground, properly marked but no trace of pits.
(°	I dig pits 24 X 24 X 12 ins. in each sec., 6 ft. dast.;
	and raise a mound of earth 4 ft. base, 2 ft. high. W.
	of cor.
	Land, gently rolling.
	Soil, gravelly loam; 2nd and 3 rd rate.
	No timber.
. <i>1</i>	
• • • • • • • • • • • • • • • • • • • •	From Cor. of secs. 24 and 25, old 1 sec. cor. brs.
	H. O. 10' E.
r 7°,	Therefore I run
	N. 0º 10 t. E. on East bdy. of sec. 24.
	Over gently rolling land.
1.80	Road byars east and west.
	Enter Babocomari Creek bottom brs. E. and W.
	Road bears N.W. and S.E.
	Babocomari Creek instann 20 lks. wide, course, East
21.30	Leave onest hetter themes and will de land
A A	Leave creek bottom, thence over rolling land.
99.09	Old 2 sec. cor., which is a sandstome 6 X 6 X 4 ins.
1 . Le 14	above ground, properly marked but find no trace of pits.
	I dig pits 24 X 24 X 13 ins. in each sec., 6 ft. dist.,
	and raise a mound of earth 4 ft. base, 2 ft. high, W.
	of cor.
	From 2 se c. cor., old sec. cor. brs. N. 0º 10' W.
•	

- 8-

1694 - 01	Re-survey of the West Boundary of Tp. 20-South, R. 18-East
ohains	
	Therefore I run
39 89	91d see. cor., which is in a badly dilapidated condition
	and mound of stone scattered. I reestablish this corner
	AS TOLLOWS: REPUBLIC LEADER . CONFIGURATE FOR THE REPUBLIC
	Set a sandstone 18 X 12 X 10 ins., 12 ins. in the ground
Ang shi	for cor. of secs. 13 and 24, marked with 5 notones on the north and south edges, and raise a mound of
· · ·	stone, 2 ft. base, 1 ft. high, W. of cor. Pits
	impracticable.
	June 11, 1906, At this cor. I set off R3° 4'N on
	the decl. arc; at 11 h. 59 m. AM1.m.t., Observe the
	sun on the meridian; the resulting lat. is 510 41'N.
	From cor. secs. 13 and 14, old sec. cor. brs. N.
	0° 6' W.
· • · · · · · ·	Therefore I run
•	N. 0° 6! W. on East Ddy. of sec. 13.
39.96	
	and mound of stone scattered. I therefore reestablish
	cor. at same point as follows: addition of the second
	Set a sandstone 18 X 14 X 12 ins., 12 ins. in the ground,
	for 1 sec. cor. marked 1 on W. face; and raised a mound of stone, 2 ft. base, 1 ft. high, W. of cor. Pits
	TWDLACTGADTO
:	From + sec. cor. old sec. cor. brs. N. 00 201 W.
	Therefore I run a start to the start to the start the start and the start to the st
]]. FO	
28_00	Draw 45 1ks, wide course N.E. Draw 200 1ks, wide course N.W.
93"95	U10 600 OF gang 19 and 18
01	
5.	I raise a mound of stone 2 ft. base, 1 ft. high, W. of cor. Pits impracticable.
· · ·	Land rolling
	Soil gravely and stones 744 and stones
	No timber.
	From cor. of secs. 12 and 13 old sec. cor. brs. N.
	V State to the second secon
	Therefore I was
₹ ₩ 44	N: 0° 9' W. on E. bdy. of sec. 12.
1.50	Draw 1.00 ch. wide course West
	LICH LOU CI. WIGE AMIRES N.W.
39.78	010 1 880. COr. which is a sendetone 6 V C T C in-
\mathcal{A}^{\prime}	GUUY C STUURE, UTUDETLY MATKAG and mound of at any stated
\sim	'I raise a mound of stone 2 ft. base, 12 ft. high, W. of Cor. Pits impracticable.
	TON SCO. ROB. Old 800. COr. hrs. N. oc ot w
	ALGORIDIG I FUN
9.90	N. 0° 8' W.
17.80	Draw 8 1ks. wide course West.
	Draw 2.00 ohs. wide course West, thenne su
37-85	Draw 2.00 ohs. wide course West, thence S.W. Draw 1.20 ohs. wide course S:W.
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	
	W. of cor. Pits impracticable.
	Larki, rolling
· · · · ·	Soil, gravelly and stony; 3rd and 4th rate.

BOOK 1910

	۵۰۹ ۱ ۱	e-survey of the West Boundary of Tp. 20-South, R. 18-East.
	bhains.	From cor. of secs. 1 and 12, old sec. brs. N. 0° 20'W.
		Therefore I run
		N. 0° 20' W., on E. bdy. of Sec. 6.
•	17.00	Over rolling land. Draw 60 lks. wide course S.E.
		Old 1 sec. cor., which is in a badly dilapidated
		condition, mound of stone scattered. I reestablish
	Ŭ Ŭ -	cor. at same point as follows: Set a sandstone 18 X 7 X 6 ins., 12 ins. in the ground,
		for $\frac{1}{2}$ sec. cor., marked $\frac{1}{2}$ on W. face, and raised a
		mound of stone 2 ft. base, 1 ft. high, W. of Cor.
		Pits impracticable. From 1 er. soc., old tp. cor. brs. N. 0° 2' W.
		Therefore I run
		N. 0º 2º W.
		Draw 15 1ks. wide course N.W.
	17.10 38.50	
	39.66	Old tp. cor., which is a decayed stake, with marks
		partly obliterated, lying on ground, mound of stone
		scattered. I reestablish cor. at same point as follows: Set a sandstone 21 X 14 X 14 ins., set 15 ins. in ground,
		for cor. of tps. 19 and 20 S., Rs. 17 and 18 East, marked
		with 6 notches on each edge, and raised a mound of
		stone, 2 ft. base, 12 ft. high, S. of Cor. Pits impract
		Land, rolling.
	. C	Soil, gravelly and stony; 3rd and 4th rate.
		No timber. June 11, 1906.
		For general description see subs. T.20. S. R.18, E.
		PR Batthelenner
		U. S. Deputy Surveyor.
		0. 2. Debuth Surveyor.
		المناطقية والدينية الموجرة التي المنطقية والدينية الموجرة التي المحمد التي المحمد التي المحمد التي المحمد الم
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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

BOOK 1910 A list of the names of the individuals employed by acimic R. Barthelenne LIST OF NAMES, 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 Reciptof West Boundary J20 S. K186 showing the respective capacities in which they acted: arthur Toque, Chainman. Harry Mallory, Chainman. Louis Renaud _____, Moundman. L.C. Millar , Axman. Axman. J. B. MilliKen, Flagman. FINAL OATH OF ASSISTANTS. We hereby certify that we assisted _____ Painin P. Barthelenny , United States Deputy Surveyor, in surveying all those parts or portions of the Reserver of West Boundary of 5205R18E Gila and o of the 🗠 I meridian, Servicory of annone, which are represented Well Base 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 oher General for _ arthur Voque ___, Chainman. Harry Mallony, Chainman. Louis Renaud, Moundman. L.C. Millar Axman., Axman. 3. Millinsn , $Flagman_{V}$ Subscribed and sworn to before me this..... W. G. Power ., 190 6 lugust day of 6-151

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR. 1910 BOOK Barthelenn I, <u>aamme</u> <u>U</u> <u>Oamment</u>, United States Deputy Su solemnly swear that, in pursuance of a contract received from <u>J'aank of mgalla</u> asmuro ___, United States Deputy Surveyor, do proper, person, and in strict conformity with the instructions furnished by the United States Surveyor General for ______ Arnona_____, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of Resurvey of The West Soundary of Yourship 20 South Range 18. East of the file my Salt River Base my meridian, in the Servicory of anyona, 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 the foregoing are the original field notes of such survey. United States Deputy Surveyor. Subscribed by said Casmuro R. Barthelen, and sworn to before me) this 11th day of augus , 190 6 FIRST JUDICIAL DISTRICT. APPROVAL. OFFICE OF THE UNITED STATES SURVEYOR GENERAL, Phoening al March 15th The foregoing field notes of the survey of the West ban dary of 2. 20 3, Q. 18 & of the Gild and Lett Quiver Base and Meridian in the territory executed by Dasimira (X. (Barth Elemy, W. I deputy surveyor. under his contract No. 139 , dated April 014" , 1906, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved. 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. 6-151