1898 Book 1888 FIELD NOTES

of the survey of the	
North & boundary of Pourushil 21	Worth
South Soundary of Pownship 2 Range 30 East	7.00
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<u>, </u>	
of the Gila and Halt Queen Maridian	
of the Gila and Salt River Meridian	υ, .
Perritory of arizona	
AS SURVEYED BY	
John G. Kesze, United States Dep	outy Surveyor,
Under his Contract No. 121, dated June 17,	
Survey commenced Qugust 28	
Survey completed. Jap 4	
6 151	

G. C. Wiswell arman

W. N. Dort Plagman

6—151

BOOK 1888

INDEX DIAGRAM.

Tow	nship 🌊	\mathcal{M} .	, Range	300),),
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7	8	9	10	11	12
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30	29	28	27	26	25
81	82	83	34	8 5	36

Meanders Page.....

PRELIMINARY O	ATHS OF ASSISTANTS.
WE, George W. Cassia	and G. G. Fryder ly execute the duties of chainmen; that we will level the
chain over even and uneven ground, and plumb t	he tally pins, either by sticking or dropping the same; that objects, and the true lengths of all lines that we assist in
measuring, to the best of our skill and ability, and the north bloundary of	I in accordance with instructions given us, in the survey of The 2 H. Rg. 30 Co.
	in accordance with instructions given us, in the survey of the 2 n. Rg. 30 G. Serve M. Cassidy, Chainman. A. A. Shujar, Chainman.
Subscribed and sworn to before me this)
day of Ougust 1904, 189	
案並業業 ※)SEAL(★) ※承達業業	John & Hesse U. S. Dep. Furveyor No notary available.
•	andand
	, Moundman.
	, Moundman.
Subscribed and sworn to before me this	}
day of, 189	
SEAL (
WE, W. W. Olwer	and G. Wiswell
•	erform the duties of axmen in the establishment of corners a us, to the best of our skill and ability, in the survey of
the north-boundary of	i dis, to the book of our sixin and assirty, in the bar toy or
	Mr. 2 4. Rg. 30 G.
	W. W. Whire, Axman.
	M. 2 4. Rg. 30 C. A. W. Oliver, Axman. G. & Wisnell, Axman.
Subscribed and sworn to before me this.	G & Wisnell, Axman.
	SE Wisnell, Axman. John D. Hesse
Subscribed and sworn to before me this / 2/ day of August 1904, 189	G & Winnell, Axman. Axman.
Subscribed and sworn to before me this	John D. Hesse John D. Hesse J. S. Oef. Surveyor , do solemnly swear that I will well and truly
Substituted and sworn to before me this day of August 1904, 189 I, W. Dort perform the duties of flagman according to instru	John D. Hesse John D. Hesse J. S. Oly. Surveyor do solemnly swear that I will well and truly uctions given me, to the best of my skill and ability, in the
Subscribed and sworn to before me this	John D. Hesse John D. Hesse J. S. Oly. Surveyor do solemnly swear that I will well and truly uctions given me, to the best of my skill and ability, in the
Substituted and sworn to before me this day of August 1904, 189 I, W. Dort perform the duties of flagman according to instru	John D. Hesse John D. Hesse J. S. Oef. Surveyor do solemnly swear that I will well and truly uctions given me, to the best of my skill and ability, in the John D. Hesse J. S. Oef. Surveyor M. A. J. Rg. 30 C.
Substituted and sworn to before me this	John D. Hesse John D. Hesse J. S. Oef. Surveyor do solemnly swear that I will well and truly uctions given me, to the best of my skill and ability, in the John D. H. 211. Rg. 30 C.
Subscribed and sworn to before me this day of Qugust 1904, 189 I, W. Part perform the duties of flagman according to instrusively of the month strength and sworn to before me this 18	John D. Hesse John D. Hesse J. S. Oef. Surveyor do solemnly swear that I will well and truly uctions given me, to the best of my skill and ability, in the goffice 271. Rg. 30 Co. W. H. Fort, Flagman.

Chs.

Survey commenced August 28th, 1904, and executed with a W. and L. E. Gurley light solar compass, not numbered. 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 vernier of the latitude arc.

The vernier of the declination arc, reads to 30 seconds of arc.

I examine the adjustments of the Solar, correcting a slight level error, otherwise find them correct. Then to test the Solar apparatus by comparing its indications, resulting from solar observations made during p. m. and a. m. hours, with a meridian determined by observations on Polaris.

August 28th, at the cor. of Tps. 1 and 2 N., Rs. 30 and 31 E., heretofore established and described by me; latitude 33° 28.2' N., Long. 109 10 5 W., at 3h, 7m, p. m., l. m. t., I set off 33° 28' N., on the latitude arc, 9° 38' N., on the decl. arc, these settings being the nearest practicable to the true minutes and fractions thereof required; determine with the Solar a meridian, and mark a point thereof on a stone set firmly in the ground, 5 chs. N. of my station.

At 9 h. 6 1/2 m., by my watch which is 4 1/2 minutes fast of 1. m. t., I observe Polaris at eastern eleongation, in accordance with the instructions found in the Manual of Surveying Instructions, and mark a point on the line thus determined, on a plug drive in the ground 5 chs. N. of my station. August 28th, 1904.

August 29th, at 6h, 5 m., a. m., l. m. t., I set off the azimuth of Polaris 1° 26' west and mark the tre meridian thus determined by cutting a small grove on the stone set August 28th, on which the true meridian falls on the mark determined by the Solar.

At 6h, 32m, a. m., l. m. t., I set off 33° 28'/
N., on the lat. arc, 9° 26 1/2'/N., on the decl.
arc and determine a true meridian with the Solar, and mark a point thereof on the stone already set 5 chs. N. of my station; this mark 15.2 ins., west of the mer. esyablished from the Polaris observation; therefore, I conclude that the adjustments of the instrument are satisfactory, inasmuch as the solar apparatus by p. m., and a. m., observations, practically give meridians coinciding with that established by an observation on Polaris.

The Magnetic bearing of the above meridian, at 7 a. m., is 170 12' E., with the proper corrections applied. applied.

I commence this survey at the cor. of Tps. 1 and 2 N., Rs. 30 and 31 E.

Thence, I run,

West, on a true line, on the South boundary of Tp.

2 N., R. 30 E. along the South boundary of Sec. 36.

Along gentle N. slope of rough mountains, through scattering timber.

Enter dense timber.

Top of ridge bears S. E. and N. W. and descend. Set a malpis stone, 30 x 18 x 8 ins., 24 ins., i the ground for 1/4 sec. cor marked 1/4 on the N. face, whence,

A pinon, 7 ins., in diam. brs. S. 2 1/2° E., 12 lks. dist. mkd. 1/4 S. 1 B. T.
A pinon, 12 ins., in diam. brs. N. 62° W., 108 lks. dist. mkd. 1/4 S. 36 B. T.

8.00

35.00 40.00

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Timber becomes scattering.
42.00
54.10
                       Dry creek, 30 lks. wide, course N. W.
58.20
                       Gully 10 lks. wide, course N. and ascend.
                      Set a malpais stone, 30 x 14 x 12 ins., 22% ins., in the ground to bed rock for the cor. of secs. 1, 2, 35 and 36, marked with 1 groove on the E. and 5 grooves
80.00
                      35 and 36, marked with I groove on the E. and 5 groove on the W. edges, whence,

A pinon, 4 ins., in diam. brs. N. 66° E., 59

lks. dist. mkd. T. 2 N., R. 30, E S. 36 B. T.

A pinon, 4 ins., in diam. brs. 3. 42° E., 72 lks. dist. mkd. T. 1 N., R. 30 E., 3. 1 B. T.

A pinon, 5 ins., in diam. brs. 3. 3° W., 99 lks. dist. mkd. T. 1 N., R. 30 E., 3. 2 B. T.

A pinon, 4 ins., in diam. brs. N. 6 1/2° W., 86 lks. dist. mkd. T. 2 N., R. 30 E., 3. 35 B. T.

Land rough nountains 80. chs.
                       Land rough mountains 80. chs.
                       Soil rocky and 4th rate.
                       Timber, cedar, pinon and juniper 34 chs. very dense,
                       46 chs. scattering.
                       Undergrowth of scrub cedar and oak.
                      West, on a true line, bet. sees. 2 and 35. Over rough mountains, over 3. slope of nt. through
                       scattering timber.
                      Ascending.
                      Top of spr. brs. N. and S. and descend. Gully 15 lks. wide, course S. and ascend.
20.00
37.95
40.00
                       Set a malpais stone, 16 x 10 x 10 ins., 10 ins., in
                       the ground for 1/4 sec. cor. marked 1/4 3., on the
                      N. face, whence,

A pinon, 11 ins., in diam. bro. N. 74 1/2° E.,

20 lks. dist. wkd. 1/4 S. 35 B. T.
                      A pinon, 8 ins., in diam. brs. S. 73 1/2° W., 21 1ks. dist. marked 1/4 S. 2 B. T.
                      Top of ridge brs. H. and G. and descend.
Dry creek, 25 lks. wide, cowse G. and ascend through
very heavy timber.
43.05
48.90
                     Very heavy timber.

Top of spur, bears H. and S. and descend.

Set a malpais stone, 17 x 12 x 7 ins., 10 ins., in the ground, to bell rock, for the cor. of secs.

2, 3, 34 and 35, nurbel with 2 grooves on the M. and 4 grooves on the W. edges, whence,

A pinon, 8 ins., in diam. brs. H. 65 1/2° H.,

30 lks. dist. rkd. T. 2 N., R. 30 H., 3. 35 B. T.

A pinon, 6 ins., in diam. brs. S. 30° M., 67 lks. dist. rkd. T. 1 H., R. 30 H., S. 2 B. T.

A pinon, 7 ins., in diam. brs. J. 29° W., 47 lks. dist. rkd. T. 1 N., R. 30 H., S. 3 B. T.

A pinon, 6 ins., in diam. brs. H. 50° M., mkd.

28 lks. T. 2 N., R. 50 H., S. 34 B. T.

Land rough and mountainous. 80.chs.

Soil rocky and 4th rate.

Timber, cedar, pinon and juniper very dense 31.10
74.85
00.08
                      Timber, cedar, pinon and juniper very dense 31.10 cs. scattering 48.90 chs.
                                                                                                       August 28th, 1904.
                      Oak underbrush.
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I discontinue the survey of this boundary at this corner as the line west becomes very rough and precipitous; and its further prolongation is not necessary to properly include all the agricultural and grazing lands and settlers, along or within the Canon of the Blue River.

North boundary of T. 2 N., R. 30 E.

Sept. 4th, 1904, at 7h, 15m, a. m., 1. m. t., by my. watch which has correct local mean time, at the Cor. Chs. of Tps. 2 and 3 N., Rs. 30 and 31 E., as heretofore established by me 33° 33'/N., on the Lat' Arc, 7°14/2 Ms' N., on the decl. arc and determine a true meridian with the Solar, thence I run,

WEST, on a true line on the S. boundary of Sec. 36, descending over rough mountains through heavy timber. Gully, 15 lks. wide course N. W. and descend. Top of spur bears N. and S. and descend. 6.70 11.00 Set a malpais stone, 18 x 12 x 10 ins., 12 ins., in the ground for 1/4 sec. cor marked 1/4 on the N. 40.DO face, whence, A Box elder, 7 ins., in diam. brs. S. 81° W.,
77 lks. dist. mkd. 1/4 S. 1 B. T.
A Cottonwood, 11 ins., in diam. brs. N. 86° W.,
55 lks. dist. mkd. 1/4 S. 36 B. T.
Road from Luna Valley to Clifton. course n and S. 41.35 To center of Blue River, running water, course 41.85 west, 40 lks. wide. 42.01 Over bottom land. Leave bottom land and ascend thro. scattering timber. 47.50 57.75 Gully, 10 1ks. wide, course S. E. and ascend.
Top of ridge bears N. and S. and descend.
Dry creek, 30 1ks. wide, course S. and ascend.
Top of ridge bears N. and S. and descend.
Top of ridge bears N. and S. and descend.
Set a malpais stone, 24 x 16 x 14 ins., 18 ins., in the ground for the cor. of secs. 1, 2, 35 and 36, marked with 1 groove on the E. and 5 grooves on the 64.00 69.35 77.00 80.00 marked with 1 groove on the E. and 5 grooves on the W., edges, whence,
A juniper, 7 ins., in diam. brs. N. 4° E.,
137 lks. dist. mkd. T. 3 N., R. 30 E., S. 36 B. T.
An oak, 5 ins., in diam. brs. S. 14° E., 191
lks. dist. mkd. T. 2 N., R. 30 E., S. 1 B. T.
A pinon, 10 ins., in diam. brs. S. 27° W.,
145 lks. dist. mkd. T. 2 N., R. 30 E., S. 2 B. T.
A juniper, 15 ins., in diam. brs. N. 48° W.,
218 lks. dist. mkd. T. 3 N., R. 30 E., S. 35 B. T.
Land rough and mountainous 74.51 chs. Bottom land 5.49 chs. River timber and underbrush dense 5.49 chs. chs. River timber and underbrush dense 5.49 chs. Scattering pinon, oak and juniper 74. 51 chs. Scattering scrub cedar and oak underbrush. Soil, 2nd to 4th rate.

Sept. 4th, 1904.

The survey of this boundary was discontinued at this corner as it was not necessary to prolong the same further west where the country becomes rougher and very precipitous. The line as surveyed will embrace with the subdivisional lines to follow all the agricultural and grazing lands and settlers lying along or within the Canon of the Blue River in Tp. 3 N., R.

General Description.

Fractional township 2 N., R. 30 E., is rough and mountainous, cut by many deep ravines and canons which have their outlet in the Canon of the Blue River. Excepting small tracts of Revel land in the bottom of the Blue River Canon, the land is almost worthless even for grazing purposes on account of its roughness.

The township is covered with a good growth of pine, pinon, cedar and juniper.

U.S. Deputy Surveyor.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

145

	NAMES			BOOK	1000
A list of the names of the individuals employ	red by	John!	4) _K	Lesse	1888
, United States I	-				, and
months of the line of the second				1.	, and
north stoundary of Mi	2 21 (A	2 3 C	TVey of		
marking the lines and corners described in the foreg	<i>λ λ</i> .	9,20		~	
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	Q, Q,	Juye	lei	, Chainm	an.
				, Moundm	an.
				\dots , $Moundm$	an.
	W. 1	W. Q	iver	-., $Axman$.	
	-6,6		Sunla	\angle , $Axman$.	
	/(1	21 0) 1	\searrow , $Axman$, $Flagman$	
			ort	\dots , $Flagman$	b.
FINAL OATH O	_	_			
We hereby certify that we assisted	tin 4.	Hes	ne		
	, United St	ates Deputy	Surveyor,	in surveying	g all
hose parts or portions of the the worth	Louth & Vous	dans	of Ph	22	•
Rg. 30 8.	r	J			
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			of th	e Gila	
Halt River meridian, Verritor	y of a	rizon	a which	LORO Moromogom	J
n the foregoing field notes as having been surveyed b	y Ny him and un	der his dire	$ction \cdot and$	that said sum	rea.
as been in all respects, to the best of our knowledg	ge and belief,	well and fa	aithfully su	rveved, and	the
orner monuments established, according to the inst	tructions furr	nished by tl	he United	States Surve	\mathbf{yor}
eneral for Aryona,					
	Leorg	e M Ca	o sida	Chainma	m
	1. a	. 5/2	1	, Oraciono	10.
	<u>-</u>		Juce	L , Chainman	n.
		·		\dots , $Moundma$	n.
·		11-1)/)	, Moundma	n.
	$\mathcal{O} \cup \mathcal{O}$	1. OS	live	, Moundma 1 , Axman.	
	J. E.	20/1	Imel	0	
W.A	1 /	/ .		4, Axman.	
(J.)	1.00			, Flagman.	
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day of September, 1984			~ .		
day of September , 1904	Jo	hu 9	4) He.	221	
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6-151	2	1. U. K	up.	Jurvey	<u>~</u>
·	no	notari	armit	I.S.	

1 MMI J. Dread	United States Deputy Surveyor, d
colomply swear that in pursuance of a contra	United States Deputy Surveyor, duct received from Frank J. Sugalls
United States Surveyor General for	ngona, bearing date of the
17 day of June 1	204, 189, , I have well, faithfully, and truly, in my ow
proper person and in strict conformity with	the instructions furnished by the United States Surveyo
~ 10 Q1 - 0	the Manual of Surveying Instructions, and the laws of the
United States surveyed all those parts or po	rtions of the north & boundary
of Ph. 2 n. Qg. 30 6.	ν
	of the Gila and
Velt Pines maridian in the Mars	itory of argona, which are represented in t
meridian, in the 2000	d by me, and under my direction; and I do further solemn
toregoing field notes as naving been surveyed	re been established and perpetuated in strict accordance wi
swear that all the corners of said survey have	ne special written instructions of the United States Survey
the Manual of Surveying Instructions, and the	d in the specific manner described in the field notes, and the
the femoral nor are the original field notes of	such survey; and should any fraud be detected, I will suff
the populty of popular under the provisions of	of an Act of Congress approved August 8, 1846.
the penalty of perjury under the provisions c	
	John 4. Hesse
	United States Deputy Survey
and It I	
Subscribed by said	(Mark sworn to before me)
this Jan day of MM	-189-1904
,	Flant Andreally
	Chillian Charles
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OOOOOO O SEAL O OOOOOO	Ud Sur Geril
OOOOOO O SEAL O OOOOOO	Md. Sur Geril
990999 \$ SEAL \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Md. Shur Geril
	TED STATES SURVEYOR GENERAL,
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OFFICE OF THE UNI The foregoing field notes of the survey of J. 2 M R. 30 E. Of the Meridian uni Stal the overweed by John J. Hessa	TED STATES SURVEYOR GENERAL, Tholming all april 2/ 189 of the Morth and South Bounda Gila and Solt River Base and sritary of any ona
office of the UNI The foregoing field notes of the survey of 1.2 m R 30 E. of the Meridian uni the te executed by lam I. Hessa	TED STATES SURVEYOR GENERAL, Tholning all april 189 of the Morth and South Bounda Gila and Salt River Base and ritary of arrivana June 12/904, 189, having b
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office of the UNI The foregoing field notes of the survey I 2 n R 30 E of the Mendian uni the te executed by	The states surveyor General, The north and South Being da Sila and Salt River Base and ritary of armsona Jame 12/904 The plantions made, the said field notes, and

<u> United States Surveyor General.</u>