Ordered filed <u>\$.1.0</u> letter "E." Sept. 6, 1913.

Book A.

BOOK 2403

FIELD NOTES

OF THE SURVEY OF THE Gila and Dalt Ren
Base Line Three TIN Parsfet 16 E
,
Of the 5 15 19 13 \ Meridian,
Clairous
AS SURVEYED BY
(Miscae Colomo, United States Deputy Surveyor,
, United States Deputy Surveyor,
Furvey commenced 10/0/9/0 , dated 10/0 , 19/0
furvey commenced 10/10,1910, 19
urvey completed 1910, 19
6—151

NAMES AND DUTIES OF ASSISTANTS.

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		Percy	(Zelf		ham	nay
		Fred Lo)	Ĉ	lame	rens
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	,	D'In Cy) iymc	
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6—151						

BCOK 2403

INDEX DIAGRAM.

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/5	/4 17	13 10-	18 161	m 114	13
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34	35	36	81 64 m	35	. 36
Gila My Da	et Piver	Bru Li	<i>5</i> .	<u> </u>	

Meanders Page

6---151

10 15 BOOK 2403

PRELIMINARY OATHS OF ASSISTANTS.

ρ ρ	~ A	$-\Omega\Omega$.	•
WE, Terry Belf	and Cultura	Mogue	
do solemnly swear that we will well and faithfully e			
chain upon even and uneven ground, and plumb the to we will report the true distances to all notable object	· -	· · · · · · · · · · · · · · · · · ·	
measuring, to the best of our skill and ability, and in			
Base Line This TIM Va		ions given us, in the s	divoy or
Juse arme mis 1/111/1/11			
· .	Dirgy	(XILL-, Ch	ainman.
	Mithurt	J. Jogue Ch	
11		ex . V G-grade	wording.
Subscribed and sworn to before me this	}		
day of Movember, 19/0		11/ ///	
THE RESERVE OF THE PARTY OF THE	- Maele	LEW M	
S.D.A.L. (A)	WS.X	futy Jun	nyon
WE, Fred Down	#		
do solemnly swear that we will well and truly pe	rform the duties of mou	indmen in the estab	lighment
of corners, according to the instructions given us,	the state of the s		
Base Ime Thru J/ 1/ Pla /3		and ability, in the	arvey or
Jane ame mus //4/114/5		- Cha	mm cas
· 	Dona B) and , Mor	undman.
	Ire Rando	ell the	ammer indma n
and the second s	. /	·	•
Subscribed and sworn to before me this	{V		•
day of november, 1910)	17 1/1	
	1./1000	0/////////	
	1/max	lellon	<u>n</u>
******* **) SEAL (**) *******	(foreign	Lel Sur Defuty Sur	v vyor
WE		Lel Sur	vyor
WE,do solemnly swear that we will well and truly perform	and		vyv corners
WE, do solemnly swear that we will well and truly perfor and other duties, according to instructions given us	and amen in	a the establishment of	
do solemnly swear that we will well and truly perfor	and amen in	a the establishment of	
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do solemnly swear that we will well and truly perfor	and amen in the duties of axmen in to the best of our skill	a the establishment of	survey of
do solemnly swear that we will well and truly perfor	and amen in the duties of axmen in to the best of our skill	a the establishment of and ability, in the s	Axman.
do solemnly swear that we will well and truly perform and other duties, according to instructions given us	and amen in the duties of axmen in to the best of our skill	a the establishment of and ability, in the s	Axman.
do solemnly swear that we will well and truly perform and other duties, according to instructions given us. Subscribed and sworn to before me this	and amen in the duties of axmen in to the best of our skill	a the establishment of and ability, in the s	Axman.
do solemnly swear that we will well and truly perform and other duties, according to instructions given us	and amen in the duties of axmen in to the best of our skill	a the establishment of and ability, in the s	Axman.
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Survey commenced November 10,1910, and executed with a Young & Sons light mountain transit, No. 5609, equipped with a Smith solar attachment, the horozontal limb being provided with two opposite verniers reading to 1 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.

veyor General for Arizona.

At the standard corner of township 1 north, ranges 15 at 152 east, which is a granite rock 18x1988 ins.10 ins. ranges 15 and in the ground, firmly set and marked and witnessed as described by the Surveyor General, in latitude 33 22 33 N longitude 110°44'31"W. at 12m by my watch, which is 16m fast of local mean time, I set 17° 03'5 on the declination are and determine the latitude to be 33°23'N At 3 p.m., l.m.t., I, set off 17° 05'5 on the declination are

33° 23 Non the latitude arc, and mark a stone 5 chs. N. of

At 4h 15.3 p.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 tack driven in a wooden peg set in the ground 5 chains north of my stat-. November 10, 1910. ion.

November 11, 1910: at 8 a.m., I turn off the azimuth of Polaris 1° 24° to the west, and mark the meridian thus determined by cutting a mark on a stone firmly set in the ground, west of the mark determined last night; th magnetic bearing of said true Meridian is N.14°15' .,

which gives the magnetic declination N.14°15! East.

At 9 a.m., l.m.t., I set off 17°17'30"Son the declination arc and 33° 25'Non the latitude arc, and mark the meridian thus determined by cutting a small groove in the stone set Nov.10,1910, which falls0.3 ins.east of the mark determined by Polaris observation.

The p.m. solar observation falls 0.4 ins.west of meridian determined by Polaris; therefore, I conclude that the adjustments of the instrument are satisfactory.

I lay off from the meridian, an angle of 90° from north to east and run east on the south boundary of Sec. 34.

Over mountainous land, through dense cat claw.
2.31 Barbed wire fence, brs.N.30°E.; S.30°W. S.2 chs.to frame

house of Mr. Evans. 2.91 W. bank of wash, brs. N. 30°E.

3.00 Bottom; leave dense cat claw.
4.51 Schist Mon.15x6x6 ins., marked H 4 on S.W. face, 2 lks.N. of line.

4.40 Fence, brs.N.30°E.

6.09 Wagon road, brs.N.40°E., S.40° W.

6.30 East bank of wash; ascend 10.00 N.1.50 chs. to S.E.cor.frame house of E.L.Higdon. 10.22 N.3.10 chs.to two story brick house of E.L.Higdon.

10.72 Barbed wire fence, brs.N.E. and S.W.
10.84 Schist Mon., 15x6x6 ins., marked H 5 on E.face, 7 lks.N.of line.

Barbed wire fence, brs.N.E. and S.W. Top of rise; descend

12.00

14.00 Bot tom.

14667 S.52 lks.to Gibson Bros.dairy.

14.85 Barbed wire fence, brs.N.15°W., S.15°E. 15.15 West bank Pinal creek.

16.80 Main channel Pinal creek.

18.00 Schist Mon., 15x8x6 ins., marked H 1 on E.face, 7 lks.N.of

18.00 Wagon road to Globe, Kelvin and Troy, brs. N. 12°W., S. 12°E.

Base Line Through Range 152 East

```
mains
            N.7 chs.to adobe house of George Hutton. East, bank of Pinal creek; ascend 300 ft.
18.00
19.00
                                                                                       N.12 chs.to
            house of Robert Hold.
19.50
            Barbed wire fence, brs.N.llow., S.llo E. N.25.75 chs.to W.K.Anderson's frame house.
24.50
            Barbed wire fonce, brs.N.ll°W., S.ll°E.
Top of ridge, brs.N.lQ° W., S.l0° E.; descend 150 ft.
9.5 lks.N.to schist Mon., 15x6x6 ins., marked W H 6 on W.
24.61
24.65
25.00
            Gulch, 12 lks.wide, brs.N.; ascend 100 ft.

Top of ridge, brs.N.8° W.; descend

Gulch, 5 lks.wide, brs.N.W.; ascend 100 ft.

Difference between measurements of 40 chs.by two sets of chainmen is 4 lks.; position of middle point

By first set 40.02 chs

By 2nd set 39.98 chs. the mean of which is
27.55
32.60
36,00
            By 2nd set 39.98 chs; the mean of which is Set a quartz stone 20x12x8 ins. 15 ins.in the ground, for standard \(\frac{1}{2}\) sec.cor., marked S C \(\frac{1}{2}\) on N.face; raise a mound of stone 2 ft.base 1\(\frac{1}{2}\) ft.high N.of cor. Magnetic varia-
40.00
             tion N.14°15'E.,
42.20
            Bottom; gulch, 15 lks.wide, brs.N.W. Indian village S.
                10 chs.
            Barbed wire fence, telephone line from Globe to Safford, brs.S.25° E.; N.25° W.
42.92
43.70
            Wagon road, Globe to Safford, brs.N.W. and S.E.
            Wash, brs.N.60° W., 70 lks.wide; ascend
Barbed wire fence, Arizona & Eastern R.R.
Top bank of railroad cut.
45,20
48.50
49.45
49,85
            Center of Railroad track Arizona & Eastern Railway, brs.
            N.56° 35' W.; S. 56° 35' E. Top of bank of 30 ft.rilroad cut.
50.25
            Barbedwire fence, Arizona & Eastern Railroad, 5 chs.S.to powder house of Globe Hardware Co..
Top; steep ascent 400 ft.above railroad, ridge brs.N.E. and S.W.; descend
51:04
60.06
            Bottom; gulch, brs.S.E. and N.W.; ascend Top of ridge, brs.N.E. and S.W.
72.00
78.60
            Difference between measurements of 80 chs.by two sets of
               chainmen, is 10 lks.; position of middle point
By 1st set; 79.95 chs.
By 2nd set, 80.05 chs.; the mean of which is
80.00 | Set a quartz stone 18x8x6 ins.,15 ins.in the ground, for
                standard cor. of secs. 34 and 35, marked
                   S C on N.; with 2 grooves on E.and 4 grooves on W. faces; and raise a mound of stone 2 ft.base, 1½ ft. high, N.of cor. Pits impracticable. Mag.Var.N.14°15 E.
            Land, mountainous.
            Soil, gravelly loam and rocky; 3rd and 4th rate.
        · Timber, few scattered scyamores
           Land, very mountainous, very difficult to survey 57.20 chs Land, mountainous, difficult to survey, 22.80
          November 11,1910: I set off 17°20 on the declearc; and at 11h 44m a.m., by my watch, which has correct by local mean time, observe the sun on the meridian, and obtain on the
            lat.arc, the reading 33°23'N which agrees with other data.
            East on S.bdy.sec:35
            N.1 ch.to cor.old fence, brs.N. and .E. Fence cor., brs.E.& S. 38° W. N. XXXXX 7.60 chs.to old
 1.90
11.28
            slaughter house of Dennis Murphy.
Telephone line, Pioneer Slaughter House to Globe, brs.
19.23
               N.E. and S.W.
            Fence cor., brs. W. and N.
20.15
           'S.1 ch.to 4 ft.post, marked S.E.cor. Holt homestead.
20.28
                3 cha.to ranch house of Pioneer Meat Co.
21:59
            Wire rence; brs: N.E.
22.31
            Wire fence, brs. N. and S.
```

80.25

Chains

37.60

40.00

43.00

45,00 45,22

47.16

52,16 56.50

60.50

60,94

62.61 64.20

67.00

70,55

73.60. 75.50

79.65

Pits impracticable. ft.high N.of cor. lination N.14°15'E.

Land, mountainous and very mountainous. Soil, gravelly and rocky; 3rd and 4th rate.

Timber, none.

Land, very mountainous, extremely difficult to survey 36.15 chs. 43.85 Land, mountainous, difficult to survey

November 11, 1910.

East on S.bdy.sec.36 from true point for Corner November 12,1910: at 9h 15m a.m., 1.m.t., I set off 17°34' Son the decl.arc; 33°23'Non the lat.arc; and determine a meridian with the solar at the cor.of secs.35 and 36 Thence I run E.on the S.bdy of sec.36, ascending Top, ridge, brs. S.10 E. and N.10° W., 100 ft, above gulch. 4.00

0.00 Descend. Bottom, gulch, 75 ft.below ridge, brs. S. 10°E. and N. 10°W.; 8.09

Top ridge, 75 ft. above gulch, brs. N. and S.; descend 10.00

Bottom, wash, 5 lks.wide, brs.S. 80 ft.below ridge; ascend 12.40

Top ridge, brs. N. and S., 50 ft. above gulch; descend. 16.00

18.63

Bottom, wash, 101ks.wide, brs.S.25°E., 25 ft.below ridge; ascend Top ridge, brs.N.25°W., S.25°E., 30 it.above wash; descend 21.51

Bottom, wash, 40 lks.wide, brs.S., 30 ft.below ridge; ascend 24.75

Top, ridge, brs. N.16°W., S.16°E., 50 ft. above gulch; descend Bottom, gulch, 10 lks. wide, brs. S.; ascend Top ridge, brs. N.10°E. and S.10°W.; descend 30.00

34.36

39.20 Difference between measurements of 40 chs.by two sets of chainmen, is 6 lks.; positio of middle point

By 1st set, 39.97 chs. Chains By 2nd set, 40.03 chs.; the mean of which is Set a schist stone 18X8X6 ins.,14 ins.in the ground, for standard \(\frac{1}{2}\) cor., marked S C \(\frac{1}{2}\) S on N.face; raise mound of stone 2 ft.base 1\(\frac{1}{2}\) ft.high N.of cor. Pits impracticable. Magnetic declination N.14°15'E. 40.00 November 12,1910: I set off 17°36'30"Son the decl.arc; and at: 11h 44m a.m., by my watch, which is correct by local mean time, observe the sun on the meridian, and obtain on the lat.arc, the reading 33°23 %, which agrees with other 41.82 Bottom, wash, 20 lks. wide, brs. S.; ascende Top: ridge, brs.S., 75 ft.above wash; descende Bottom, gulch, 10 lks.wide, brs.S.; ascend 48.00 50.50 53.00 Top ridge, brs.S.E., 20 ft.above wash; descend-55.80 Bottom, gulch, 7 lks.wide, 30 ft.below ridge, brs.S.E.; ascend along E.W. ridge 64.00 Top ridge, 75 ft. above gulch, brs. S. Divide, drainage to the N.E. Gulch, 15 lks.wide, brs.E.; ascend 65.12 Top of ridge, brs. N.E. and S.W.; descend 68.60 Difference between measurements of 80 chs.by two sets of chainmen, is 8 lks.; position of middle point

By 1st set, 79.96 chs.

By 2nd set, 80.04 chs.; the mean of which is

Set a porphyry stone 18x8x6 ins., 14 ins.in the ground, 80.00 for standard township cor., Tp.1. N., Rs. 15½ and 16 E., marked S C 1 N. on N. face; 15½ E., on W. face, 16E. on E. face; 6 grooves on the N., E. and W. faces. Raise a mound of stone 2 ft. base 1½ ft. high N. of. cor. Pits impracticable. Magnetic declination N.14°15'E. Cor. falls on E.slope of hill. Land, very mountainous. Soil, gravelly and rocky; 3rd and 4th rate. Timber, few scrub mesquite and catsclaw in gulches. Land very mountainous, and extremely difficult to survey,

In runningthis line observations were taken with a solar instrument, every 15 to 20 chains.

November 12, 1910

GENERAL DESCRIPTION

This land runs across mountain ridges and washes having a southeasterly trend. The general drainage at the westerly end is to the southwest, at the easterly end, to the northeast. The soil is gravelly and rocky, no water, and fit for grazing only. The land on both sides is of like character.

Vosciele Som

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Base Line Through Range 16 East.

E.on S.bdy.of sec.31; descending Chains. Bottom, gulch, 15 lks.wide, brs.S.E., 100 ft.below ridge; 0.50 ascend 2.30 Top; descend 3.20 Gulch, 15 lks.wide, brs.S.W.; ascend 4.00 Top of ridge, brs. S.E. and N.W.; descend Gulch, 20 lks.wide, brs. S.E., 40 ft. below ridge; ascend Top of ridge, brs. S.E. and N.W., 50 ft. above gulch; ascend Gulch, 10 lks.wide, 75 ft. below ridge, brs. N.E.; ascend 7.55 10.00 16.50 Top of ridge, brs.N.E.& S.W., 25 ft. above gulch; descend 18.00 21.54 Bottom, wash, 10 lks.wide, brs.N.E., 30 ft.below ridge; descend 25.45 Gulch, 15 lks.wide, brs.N.E.; ascend Difference between measurements to W.M.I.R.W.B., by two sets of chainmen, is 4 lks.; position of middle point By 1st set, 28.21 chs. By 2nd set, 28.17 chs.; the mean of which is 28.19 Set a quartz stone, 18x6x6 ins., 14 ins.in the ground, for standard twosnhip closing cor., marked C C R 16 E on W. face; T 1 R on N.face; W M I R W B on E.face. Raise a mound of stone 2 ft.base l2 ft.high W.of cor. impracticable. Magnetic declination N.14°15'E. N.8°21'E. 2.43 chs. to 642 mile cor. White Mountain Indian Reservation West Boundary, which is a quartz stone 12x8x6 ins., lying on the ground, marked W M I R W B 642 M on S. side of wash. I reset same stone in mound of stone. Raise mound of stone 2 ft. pase ly ft. high N. of cor. Land, mountainous. Soil, gravelly and rocky; 3rd and 4th rate. Timber, scattered scrub mesquite and catsclaw in the gulches and scattered Spanish bayonet and sotal. Land, mountaincus, exceptionally difficult to survey 28.19 dhs. In running this line observations were taken with the solar

instrument every 15 to 20 chs.

November 12, 1910.

Vocacle Hern W.S. Defuty Suneyo

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES	-)	. 1
A list of the names of the individuals employed by	seve CB	Jam
, United States Deputy Surve	yor, to assist in runni	ing, measuring, and
marking the lines and corners described in the foregoing field not	tes of the survey of	Done Line
thru 1/1/12/5/1/2 16 E G		M.
showing the respective capacities in which they acted:		
Cury	(Gel	, Chainman.
- Annur	An Wil	Le, Chainman.
		Chamma
	ndalf.	Chamma
for 11 cm		, Moundman .
	·	, Axman.
\mathcal{L}	·	
	John John John John John John John John	\dots , $Flagman$.
FINAL OATH OF ASSIST	TANTS.	
We hereby certify that we assisted Uracee	Dem	
, United S	tates Deputy Surveyo	or, in surveying all
nose parts or portions of the Gaze Line Ma		
JIN, Ra15/2416 E		
		·
$\gamma_{i} \in \Omega \Omega_{i}$	of	the
SYSPBY meridian Konting of a	nyona, whi	ch are represented
the foregoing field notes as having been surveyed by him and up	nder his direction; an	nd that said survey
as been in all respects, to the best of our knowledge and belief, rner monuments established, according to the instructions fur	, well and faithfully nished by the United	surveyed, and the
eneral for Canena		a States Surveyor
	6011	
154	2 (1)	, Chainman.
ti i i	1 (bynn	Chainman.
J'rea Davy		Moundman.
Joe Randall		, Chamman.
		, Axman.
		\dots , $Axman$.
Lillania		
		, r wymun.
bscribed and sworn to before me this Fund	·	
day of Security 19/0		
000000	Incides.	Jerm.
Ö SEAL Ö Ö Ö Ö Ö Ö Ö Ö Ö Ö Ö Ö Ö Ö Ö Ö Ö Ö Ö	Mr. S. De Keed	y Summeron
y—101		

2403

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

	United States Deputy Surveyor, do
solemnly swear that, in pursuance of a contract received from	Man Maguette
United States Surveyor General for Communication	bearing date of the
day of January, 19/2, II	
proper person, and in strict conformity with the instructions	
General for, the Manual of &	Surveying Instructions, and the laws of the
United States, surveyed all those parts or portions of	11/6/5/2-\100
	of the 2 x 5/2/3/2
meridian, in the Tuntary of C	which are represented in the
foregoing field notes as having been surveyed by me, and und	
swear that all the corners of said survey have been established	d and perpetuated in strict accordance with
the Manual of Surveying Instructions, and the special written	
General for and in the specific m	
the foregoing are the original field notes of such survey.	
,	
	occelessein
	United States Deputy Surveyor.
as it is Mascae Cham and away	n to hafara ma)
Subscribed by said Mascoe Cham, and sworn this 6 day of December, 1910	to perore me
this day of Accessor, 1970	The state of the s
	Willing
000000	11100
ÖÖÖÖÖ Ö	Wearner
APPROVAL	• · · · · · · · · · · · · · · · · · · ·
N	
OFFICE OF THE UNITED STATES SU	KVEYOR GENERAL,
(B.	MAY TA 1012
	mx, MAY 14 , 1913
The foregoing field notes of the survey of	la la Dalt Curs Base
Live though fractional Causes	15/2 tend 16E
Resident	/
	•
)//
executed by according	NJO, J,
under his contract No. 62, dated	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$
critically examined, and the necessary corrections and expla	anations made, the said field notes, and the
surveys they describe, are hereby approved.	0. 1
CAC	met of sigalle
	United States Surveyor General.
	C. 11 1
I certify that the foregoing transcript of the field notes	
, has been correctly copied fr	rom the original notes on file in this office.
	United States Surveyor General.