Book "a."

BOOK 2053

2053FIELD NOTES

OF THE SURVEY OF THE

Re-survey of the Gila and Salt River Base Line through Rg.	2 w.
2053	
**	
2053	2053
	<u></u>
Of the Gila and Salt River Meridian,	
Territory of Arizona.	·
AS SURVEYED BY	No.
John F. Hesse , United States Deputy	Surveyor,
Under his Contract No. 142 , dated November 10th, 1906.	, 189
Survey commenced May 16, 1907	, 189
Survey completed May 23, 1907	, 189

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20⁵³

NAMES AND DUTIES OF ASSISTANTS.

	A. N. Oliver	Chairman
	H. S. Young	Chainman
	C. C. Collins	Chainman
•		
	Ben Jones	Chairman
	w. w. Shawk	Flagman.
• .		
	,	
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6-151	· · · · · · · · · · · · · · · · · · ·	

BOOK 2053

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Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

-00x -	
WE A. N. Oliver, H. S. You	ng, C.a. Collins and Ben Jones
•	ally execute the duties of chainmen; that we will level the
·	the tally pins, either by sticking or dropping the same; that
	objects, and the true lengths of all lines that we assist in
-	d in accordance with instructions given us, in the survey of
the re-survey of the Gila and	d Salt River Base Line through R. 2 W.
	Chainman.
	29 (91
	Los Genna, Chainman.
Subscribed and sworn to before me this	the begilling
Man 1907 100	
day of May 1907, 189	John I. Hesse U. V. Dep. Lurveyor
*** *********************************	
N SEAL W	U. V. Dep. Jurcyon
T a a anilina	,
Wy, I, C. C. Collins	
	y perform the duties of moundmen in the establishment
	MS, to the best of MY skill and ability, in the survey of
the resurvey of the Gia and Sal	t River Base Line through Rg. 2 W.
	beb, bollins, Moundman.
-	W. World NVCO, Moundman.
	, Moundman.
Subscribed and sworn to before me this	the .
•	}
day of May 1907, 189	John & Hesse
(/ \$\$\$\$\$\$\$	Jours J. Spice
SEAL W	U. V. Dep. Surveyor
WE,	and
do solemnly swear that we will well and truly p	perform the duties of axmen in the establishment of corners
and other duties, according to instructions give	en us, to the best of our skill and ability, in the survey of
	·
	, Axman.
	, Axman.
,	
Subscribed and sworn to before me this)
day of, 189	,
tay 01, 200	·
SEAL (*	
	· · · · · · · · · · · · · · · · · · ·
T w W Chawk	, do solemnly swear that I will well and truly
	tructions given me, to the best of my skill and ability, in the
resurvey of the Gila and Salt River	Base Line through Rg. 2 W.

No notary available without, loss of time and great expense.

John M. Hesse U.S. Wep. Surveyor



Resurvey of the Gila and Salt River Base Line through Range 2 west

Survey commenced May 16, 1907 , and executed with a Young and Sons light mountain transit, No. 7532, 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, Cound correct, and was approved by the surveyor general for Arizona

I examine the adjustments of the transit and find them correct; 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 proceed as follows:

At my camp, which is situated 20.00 chains south of the cor. of secs. 27, 28, 33 and 34, Tp. 1 N. Rg. 2W.; latitude 33° 23' 19" N., longitude 112° 25' 42" W.; At 3h. 57.6 m., a. m. by my watch, which has correct 1.m.t. I observe 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.

I mark my station point by a cross on an iron spike

driven firmly in the ground.

At 6h. a. m. l.m.t. I lay off the azimuth of Polaris
1° 25'/to the west, and mark the meridian thus determined
by a groove on an iron spike driven firmly in the ground 5 chs. N. of my station.

At 7h. 00m. a. m. 1.m.t., I set off 33° 23 1/2' N. on the lat. arc; 18° 56' N. on the dec'l. arc; and mark a point in the meridian determined with the solar, by a cross on the spike already set 5 chs. N. of my station; this mark coincides with the meridian established by the Polaris observation.

The magnetic bearing of the true meridian, at 8h.00m. a. m. is N. 14° 05' W.; the angle thus determined gives the mag. dec'l. 14° 05' E.

At 3h. 00m. p. m. l.m.t., I set off 33° 23 1/2' N. on the lat. arc; 19° 00' N. on the dec'l. arc; and mark a point in the meridian determined with the solar, by a cross on the spike already set 5 chs. N. of my station; this mark coincides with the meridian established by the Polaris observation.

The solar apparatus, by a. m. and p. m. observations defines positions for meridians which coincides with the meridian established by the Polaris observations; there fore I conclude that the adjustments of the instrument are satisfactory.

May 16, 1907.

May 17; At 7h. 00m. a. m. l.m.t., I set off 33° 25' N. on the lat. arc; 19° 20' N. on the dec'l. arc; and determine a meridian with the solar at the standard cor. of Tp. 1 N. Rgs. 1 and 2 W., which is a granite stone $12 \times 8 \times 5$ ins. above ground, firmly set, and marked and witnessed as described by the surveyor general.

Preliminary to commencing the resurvey of the Base: Line and in order to test the alinement and measurement and discover whether all of the cors. are still to be found, I commence at the standard cor. above described.

Thence I run

West on south bdy. of sec. 36
A point 46 lks. N. of the old standard \(\frac{1}{2} \) sec. cor. a stone marked and witnessed as described by the surveyor general

Thence from $\frac{1}{4}$ sec. cor. west. A point 8 lks. S. of the old standard cor. of secs. 35 and 36. a post marked as described by the surveyor general and lying on the remains of a mound of earth.

39.80

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Resurvey of the Gila and Salt River Base Line through Range 2 West.

west on south bdy. of sec. 35. A point 9 lks. S. of the old standard $\frac{1}{4}$ sec. cer. the 39,40nt remains of a post badly rotted and of a mound of earth. 07 Thence west from standard 1 sec. cor. I am unable to find any trace of the old standard cor. of secs. 34 and 35, I therefore continue my line west. 40.00 This point is in the bed of the Gila River and the cor. 80.00 washed away. I continue my line west. A point 25 lks. S. of the remains of the old standard 119.40 cor. of secs. 33 and 34, a marked stone 12 ins. in the ground. May 17: Atathis com. Hiset off 19° 125 N. Son the dec 1. arc; and observe the sun on the meridian at noon; the resulting lat. is 33° 23' N. west on S. bdy. of sec. 33. A point 34 lks. S. of the old standard 1 sec. cor. a 39 99 marked stone 12 ins. in the ground.

Thence from 1 sec. cor. west.

A point 37 lks. S. of the old standard cor. of secs. 39.94 32 and 35, a marked stone 12 ins. In the ground. 44 West on Subdy of sec. 32. The old standard 4 sec. cor. a marked stone 12 ins. in **39.98** the ground. Thence west from 1 sec. cor.
A point 5 lks. N. of the old standard cor. of secs. 31 40.05 and 32 a marked stone 12 ins. in the ground. ·400 west on south bdy. of sec. 31. A point 13 lks. S. of the old standard cor. of Tps. 1 N. 89.75 Rgs. 1 and 2 W. aka . May 17, 1907. : no : 1.18 May 18, 19, 20 and 21 I make a preliminary retracement - a. of the east, west and north boundaries of Tp. 1 N. Rg. w. in order to determine the condition of these lines. with your attaining May 22; At 7h. 00m. a.m. l.m.t., I set off 35° 23' N. on the lat. arc; 20° 15' N. on the dec'l. arc; and determine a meridian with the solar at the standard cor. of Tps. 1 N. Rgs. 1 and 2 W., previously described, Thence I run

S. 89° 21' W. on S. bdy. of sec. 36.

Along S. slope of mountain.

Enter wash 30 lks. wide, bears S. R. 3.80 Leave wash, course N. W. and along N. alope. 7.40 Cross wash 30 lks. wide, course Na thatful 11.20 Cross wash 10 lks, wide course National 10 13.20 . Cross wash 10 lks. wide course No E. and ascend. 15.60 Top ridge bears N. E. and S. W. and descend. .. 23.05 25.80 Cross drain 5 lks. wide course N. W. and ascend. Top ridge bears N. W. and S. E. and descend. 28.40 . Cross drain 2 lks. wide course S. and ascende 30.30 Top ridge running 5. from peak about 2 chs. N. and 33.80 descend.

Difference between measurements of 39.80 chs. by two sets of chairmen, is 8 lks.; position of middle point By 1st. set; 39.76 chs. By 2nd. set, 39.84 chs.: the mean of which is The eld standard 1 sec. cor. I destroy the eld cor. 39.80 and re-establish ft in the same place as follows:

Resurvey of the Gila and Salt River Base Line through Range 2 West

Set agranite stone 18 x 10 x 6 ins. 12 ins. in the ground for old standard \(\frac{1}{4} \) sec. cor. marked OLD SC on N. face; and raised a mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable.
Thence from old standard 1 sec. cor. I run.
N. 89° 53' W.

Difference between measurements of 40.99 chs., by two. sets of chairmen, is 8 lks.; position of middle point

By 1st. set, 40.95 chs.

By 2nd. set, 41.03 chs.; the mean of which is

Set a granite stone 18x 8x 6 ins. 12 ins. in the ground

for standard 1 sec. cor., marked SC1 on N. face; and 40.99 raised a mound of stone 2 ft. base 1 1/2 ft. high N. of

cor. Pits impracticable. Cross wash 15 lks. wide course N. W. and over slightly 46.27

rolling land, through scattering brush. Cross wash 20 lks. wide course N. W. 58.37

Cross wash 10 lks. wide course N. W. and over level land, 62.97 66.37

Cross old road bears N. E. and S. W.

Difference between measurements of 79. 77 chs., by two sets of chairmen, is 6 lks.; position of middle point

By 1st. set, 79.74 chs.
By 2nd. set, 79.80 chs.; the mean of which is The old standard cor. of secs. 35 and 36. I destroy the old cor. and re-establish it in the same place as follows Set a granite stone 16 x 12 x 4 ins. 11 ins. in the ground for old standard cor. of secs. 35 and 36 marked OLD-SC on N. face; from which

A mesquite 30 ins. diam., bears N. 5° 30' W. 30 lks. dist. marked SCTlNR2WS36BT

No other tree available. dig pits 24 x 18 x 12 ins., crosswise on each line, E. and W. 3 ft. and N. of stone 7 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft high N. of cor. Thence N. 89° 52! W. Difference between measurements of 80.99 dhs., by two sets of chairmen, is 6 lks.; position of middle point

By 1st. set, 80.96 chs.

By 2nd. set, 81.02 chs.; the mean of which is Set a granite stone 20 x 6 x 6 ins. 15 ins. in the ground for standard cor. of secs. 35 and 36, marked SC on N.; with 1 groove on E. and 5 grooves on W. faces; from which

A mesquite 30 ins. diam., bears N. 76° 22' E. 122 and fife 24 west ins. clist of the free anniable Land, mountainous, level and rolling. 4 house 2ft. high H. of car. Soil, rocky and adobe; 1st. and 4th. rate. No timber.

Undergrowth, greasewood.
Mountainous land, 46.27 chains.

N. 89° 52' W. on S. bdy. sec. 35.

Over level land through dense sage and scattering mesquite brush.

Cross old road bears N. E. and S. W. 1.08

Difference between measurements of 38.18 chs., by two

sets of chairmen, is 4 lks.; position of middle point By 1st. set, 38.20 chs.

By 2nd. set, 38.16 chs.; the mean of which is

The old standard 1 sec. cor. I destroy the remains of the old cor. and re-establish it in the same place as follows 38.18

set a granite stone 18 x 6 x 6 ins. 12 ins. in the ground for old standard \(\frac{1}{2} \) sec. cor. marked OLD SC on N. face; dig pits 18 x 18 x 12 ins., E. and W. of stone, 3 ft. dist.; and raised a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, N. of cor. As the old standard cor. of secs 35 and 34, and the standard $\frac{1}{4}$ sec. cor. on the S. bdy. of sec. 34 are lost I re-establish these cors. as follows: as the total distance from the old standard cor. on the S. bdy. of sec. 35 to the old standard cor. of secs. 35 and 34 is 119.40 chs. and the falling running west is 25 lks. S. therefore the

79.77

Resurvey of the Gila and Salt River Base Line through Range 2 West.

			-
		course of the line will be N. 89° 53' W. and by proportionate measurement the length of each half mile will be	•
	•	39.80 chains. Therefore from the old standard $\frac{1}{4}$ sec. cor. on the S. bdy. of sec. 35 I run	
		N. 89° 53' W. /	
	38.20	Leave sage and mesquite and through dense arrow brush. As point for standard \(\frac{1}{4} \) sec. cor. will fall in river bed	
		I therefore set a witness cor. for this cor. Difference between measurements of 38.58 chs., by two	
		sets of chairmen, is 4 lks.; position of middle point	
		By 1st. set, 38.60 chs.; the mean of which is	
	38.58	Set a granite stone 18 x 6 x 5 ins. 12 ins. in the ground	
		for witness cor. to standard \(\frac{1}{4} \) sec. cor. marked WC SC\(\frac{1}{4} \)	
		on N. face; dig pits 18 x 18 x 12 ins. E. and W. of stone 3 ft. dist. and raise a mound of earth 3 1/2 ft. base	
	• -	1 1/2 ft. high N. of cor.	
	39.28	Leave dense arrow brush, left bank of Gila River and over dry sandy river bed.	
		Difference between measurements of 77.98 chs., by two	
	÷	sets of chairmen, is 4 lks.; position of middle point by 1st. set. 78.00 chs.	
	-	By 2nd. set, 77.96 chs.; the mean of which is	
	77.98	Point for old standard cor. of secs. 34 and 35 falls in river bed where if established it would be washed	
	ing g ydding i	away at high water.	
		Difference between measurements of 80.00 chs., by two sets of chainmen, is 4 lks.; position of middle point	
		By 1st. set, 80.02 chs.	
الاول	80.00	By 2nd. set, 79.98 chs.; the mean of which is Point for Standard cor. of secs. 34 and 35 falls at	•
	80.00	edge of river bank on left bank of river, where if	•
		established it would be washed away at high water. Land, level.	
		Soil, adobe and sandy; 1st. and 4th. rate.	
		No timber. Undergrowth, sage, arrow and mesquite brush.	
		Land covered with dense brush 39.28 chs.	
		May 22; At this cor. I set off 20° 16 1/2' N. on the dec'l. arc; and observe the sun on the meridian at	
ř.		noon; the resulting lat. is 33° 23' N.	
		N. 89° 53' W. on S. bdy. sec. 34, from true point for new cor.	
		Over level land through dense greasewood brush. Difference between measurements of 20 lks. by two sets	
		of chainmen is nothing.	
	0.20	Set a granite stone 18 x 6 x 5 ins. 12 ins. in the ground for witness cor. to old standard cor. and new standard	
		cor. of secs. 34 and 35, marked WCSG on W Page; with	
		2 grooves on E. and 4 grooves on W. faces; die 115 24 x 18 x 12 ins., crosswise on each line, E. and W. 5 ft.	
) (V)	and N. of stone 7 ft. dist., and raise a mound of earth	
	7.50	4 ft. base 2 ft. high N. of cor. Leave greasewood, and through salt brush.	
	16.80	Left bank Gila River 6ft. high and over dry, sandy bed	
	336 %	of river. Difference between measurements of 37.58 chs. by two	
		sets of chairmen is 1 lk.; position of middle point	•
	: 3	By 1st. set, 37.785 chs.; the mean of which is	
	37.48	Point for old standard t sec. cer. falls in bed of	
:		Gila River, where if established it will be washed out at high water.	
		Difference between measurements of 40.00 chs. by two	
		sets of chairmen is 1 lk.: position of middle point By 1st. set 40.005 cha.	
	• 1	By 2nd. set .39.995 chs. The mean of which is	
	40.00	Point for new standars to the raise in bed of Gila Riv	1000
	ot on militario a menina del mente trola en		

Resurvey of the Gila and Salt River Base Line through Range 2 West where if established it would be destroyed at high Right bank of Gila River 8 ft. high and over level land. 71.20 77.10 Wire fence, bears N. and S. Cross irrigating ditch on bridge, 10 lks. wide course S. 77.15 Difference between measurements of 77.58 chs. by two sets of chainmen is 2 lks.; position of middle point By 1st. set, 77.49 chs.
By 2nd. set, 77.47 chs.; the mean of which is 77.58 The old standard cor. of secs. 33 and 34. I destroy the old cor. and re-establish it in the same place as follows Set a granite stone 24 x 6 x 6 ins. 18 ins. in the ground for old standard cor. of secs. 33 and 34, marked OLD SC on N. face; from which An iron telephone post 2 ins. dism. bears N. 59° 26' E. 77 lks. dist. marked BOSC34 A mesquite 8 ins. diam., bears N. 21° 30' W. 101 lks. dist. marked OLDSCTlNR2WS348T. Thence N. 89°31'W. Difference between measurements of 80.00 chs. by two sets of chainmen is 2 lks.; position of middle point By 1st. set, 80.01 chs.

By 2nd. set, 79.99 chs.; the mean of which is

get a granite stone 20 x 8 x 8 ins. 15 ins. in the ground

80.00

for standard cor. of secs. 33 and 34, marked SC on N.; with 3 grooves on E. and W. faces; from which

An iron telephone post 2 ins. diam. bears N. 64° 22' E. 89 lks. dist. marked SCB034.
An iron telephone post 2 ins. diam. bears N. 74°,

17' W. 157 lks. dist., marked SCB033

Land level. Soil, sandy and adobe, 1st. and 4th. rate. No timber.

Undergrowth, greasewood and salt brush. Land covered with dense undergrowth, 7.50 chs.

N. 89° 31' W. on S. bdy. sec. 33 Over level land in lane alongside of road. Along in road.

21.00 29.60 30.40

A point whence B. Corgait house bears S. 5.80 chs. dist. A point whence B. Corgait house bears S. 6.80 chs. dist. Difference between measurements of 39.57 chs. by two sets of chairmen is 2 lks.; position of middle point

sets of chairmen is 2 lks.; position or middle point
By lst. set 39.56 chs.
By 2nd. set 39.58 chs.; the mean of which is
The old standard 4 sec. cor. I reestablish in the same
place as follows: The point for old standard 4 sec. cor.
falls in road. Deposit a marked stone 18 ins. in the
ground for old standard 4 sec. cor.; from which
A granite stone 18 x 6 x 6 ins., set 12 ins. in
the ground, marked WCOLDSC on N. face; with pits 18 x
18 x 12 ins. E. and W. of stone 3 ft. dist. and a
mound of earth 3 1/2 ft. base 1 1/2 ft. high N. of
stone: bears N.. 40 lks. dist.

stone; bears N., 40 lks. dist.

A granite stone 18 x 6 x 5 ins., set 12 ins. in the ground, marked WCOLDSC on N. face; with pits 18 x 18 x 12 ins. E. and W. of stone 3 ft. dist. and a mound of earth 3 1/2 ft. base, 1 1/2 ft. high N. of stone;

bears S. 40 lks. dist.

The hearing tree for the new standard 1 sec. cor.

A mesquite 10 ins. diam. bears N. 34 1/2° W. 89 lks. dist. marked SC 4S33BT.

No other bearings available. Thence from old standard 1 sec. cor. I run N. 89° 28 √ W.

Difference between measurements of 40.00 chains, by two sets of chairmen is 2 lks.; position of middle point

By 1st. set, 39.99 chs.
By 2nd. set, 40.01 chs.; the mean of which is Point for standard 7 sec. cor. falls in read. Deposit

37.57

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Resurvey of the Gila and Salt River Base Line through Range 2 West
               marked stone 18 ins. in the ground for standard \frac{1}{4} sec.
                cor.; from which
                          A mesquite 10 ins. diam. bears N. 69 3/4° E. 205
                                  1ks. dist. marked SC4S33BT.
                          a granite stone 18 x 6 x 5 ins. set 12 ins. in
                   the ground, marked SC 1 on N. face; with pits 18 x 18 x x 12 ins. E. and W. of stone 3 ft. dist.; and a mound
                   of earth 3 1/2ft. base, 1 1/2 ft. high, N. of stone:
                   bears N. 40 lks. dist.
                   A granite stone 18 \times 6 \times 5 ins. set 12 ins. in the ground marked SC_{\frac{1}{2}} on N. face; with pits 18 \times 18
                   x 12 ins. E. and W. of stone, 3 ft. dist.; and a
                   mound of earth 3 1/2 ft. base, 1 1/2 ft. high, N. of
                   stone; bears S. 40 lks. disty
                No other bearings available.
Difference between measurements of 77.51 chs.by two
                sets of chairmen is 4 lks.; position of middle point

By lst. set, 77.49 chs.

By 2nd. set, 77.53 chs.; the mean of which is

The old standard cor. of secs. 32 and 35. I destroy the
old marked stone and reestablish the cor. in the same
    77.51
                place as follows: point for old standard cor. falls in
                read. I deposit a marked stone 12 ins. in the ground-
                for old standard cor. of secs. 32 and 33,; from which A cottonwood 10 ins. diam., bears N. 31 3/4° W.
                                  881ks. dist. marked OLDSCTlNR2WS33BT.
                           A granite stone 18 x 6 x 6 ins. set 12 ins. in
                   the ground, marked WCOLDSC on N. face; with pits 24
                   x 18 x 12 ins. E. and W. 3 ft. dist. and N. of stone
7 ft. dist.; and a mound of earth 4 ft. base, 2 ft.
high, N. of stone, bears N. 17° 30' W. 60 lks. dist.
                   and from this witness cor. a cottonwood 10 ins. diam. bears N. 224 W. 53 lks. dist. marked WCOLDSCTINR2WS
                   53BT. Thence from old standard cor. I run west. I could not put this witness cor. on line N. of the
                   old standard cor. on account of road which runs N.
                    from the old standard cor.
                 Along at side of road.
    79.50
                Difference between measurements of 80.00 chs. by two
                sets of chainmen is 4 lks.; position of middle point By 1st. set, 79.98 chs.

By 2nd. set, 80.02 chs.; the mean of which is
                Set a granite stone 20 x 6 x 6 ins. 15 ins. in the ground
     80.00
                for standard cor. of secs. 32 and 33, marked SC on N. with 4 grooves on E. and 2 grooves on W. faces; from
                 which
                           A cottonwood 6 ins. diam, bears N. 42 to E. 70 lks.
                                  dist. marked SCTINRQWS33BT:
                           A cottonwood 10 ins. diam., bears N. 44° W. 71
                lks. dist., marked SCT1NR2WS32BTv
From this cor. the S. E. cor. of M. Mazaro's house
                 bears N. 22° 47' E. 263 chs. dist.
                 Land, level.
                soil, adobe; 1st. rate:
                No timber.
                                                                    May 22, 1907.
                 May 23: At 7h. 00m. a.m., 1.m.t., I set off 35° 23' N. on the lat. arc; 20° 27' N. on the dec'l, arc; and deter-
                 mine a meridian with the solar at the seandard cor.
                 of secs. 32 and 33.
                 Thence I run
West on S. bdy. sec. 32.
                 Alongside road in lane, over level land
                 Along in road.
     8:50
                 A point whence L. Schrom's house bears N. 3.12 chs. A point whence A. M. Lefferty'shows bra. 3.25 chs. Cross irrigating ditch 4 lks. wide course S. The old standard 1 sec. cor. I destroy the old marked
     16.04
     32.20
     37.44
37.49
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stone and re-establish the cor. In the same place as

Resurvey of the Gila and Salt River Rase Line through Range

follows:

Difference between measurements of 37.49 chs. by two sets of chainmen is 2 lks.; position of middle point

by 1st. set, 37.50 chs.

By 2nd. set, 37.48 chs.; the mean of which is Beposit a marked stone 12 ins. in the ground for old 37.49 standard \(\frac{1}{4} \) sec. cor.; from which

A granite stone $18 \times 6 \times 5$ ins. set 12 ins. in the ground, marked WCOLDSC on N. face; with pits 18 x 18 x 12 ins. E. and W. of stone 3 ft. dist.; and a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, N. of stone; bears N. 17° 44' W. 70 lks. dist.

A granite stone $18 \times 6 \times 6$ ins. set 12 ins. in the ground, marked WCOLDSC on N. face; with pits 18 x 18 x 12 ins. E. and W. of stone 3 ft. dist.; and a mound of earth 3 1/2 ft. base 1 1/2 ft. high, N. of stone bears S. 30 lks. dist.

No natural bearings available. Thence S. 89 56 W. Difference between measurements of 40.00 chs. by two

sets of chainmen is 2 lks.; position of middle point

By lst. set, 40.01 chs.

By 2nd. set, 39.99/chs.; the mean of which is

Point for standard 4 sec. cor. falls in road. Deposit a marked stone 12 ins. in the ground for standard $\frac{1}{4}$ sec. cor.; from which.

A cottonwood 10 ins. diam. bears N. 58° 07'W 405 lks. dist. marked SC 4S32BT /

A granite stone 18 x 7 x 5 ins. set 12 ins. in the ground, marked SC 1 on N. face; with pits 18 x 18 x 12 ins. E. and W. of stone 3 ft. dist.; and a mound of earth 3 1/2 ft. base 1 1/2 ft. high, N. of stone; bears N. 30 lks dist.

A granite stone $18 \times 6 \times 6$ ins. set 12 ins. in the ground, marked WCSC $\frac{1}{2}$ on N. face; with pits 18×6 18 x 12 ins. E. and W. of stone 3 ft. dist. and a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, N. of stone; bears S. 30 lks. dist.

A point whence N. Sanders house bears N. 3.25 chs.

A point whence vacant house bears S. 3.60 chs.

A point whence J. Schweikart store bears N. 75 lks. Difference between measurements of 77.54 chs. by two sets of chainmen is 3 lks.; position of middle point

By 1st. set, 77.555 chs.
By 2nd. set, 77.525 chs.; the mean of which is old standard cor. of secs. 31 and 32. I destroy the old marked stone and reestablish the cor. in the same place as follows: Point for cor. falls in road. deposit a marked stone 12 ins. in the ground for old

standard cor. of secs. 31 and 32; from which A granite stone 18 x 6 x 5 ins. set 12 ins. in the ground, marked WCOLDSC on N. face; with pits 24 x 18 x 12 ins. E. and W. of stone 3 ft. dist.; and N. of stone 7 ft. dist.; and a mound of earth 4 ft. base, 2

ft. high, N. of stone; bears N. 25 lks. dist.
A granite stone 18 x 6 x 5 ins. set 12 ins. in the ground, marked WCOLDSC on N. face; with pits 24 x 18 x 12 ins. E. and W. of stone 3 ft. dist., and N. of stone 7 ft. dist.; and a mound of earth 4 ft. base 2 ft. high, N. of stone; bears S. 35 lks. dist. No natural bearings available.

Thence N. 89° 49' W.

Difference between measurements of 80.00 chs. by two sets of chainmen is 4 lks.; position of middle point

By 1st. set, 80.02 chs.

By 2nd. set, 79.98 chs.; the mean of which is Point for cor. falls in road. Deposit a marked stone 12 ins. in the ground for standard cor. of secs. 31 and 32; from which

A cottonwood 6 ins. diam., bears N. 56° 45' W. 1ks. dist., marked SCTINR2WS31BT. A granite stone 18 x 6 x 6 ins. set 12 ins. 12 wated wase on N. with 5 grooves

40.00

43.70 53.70 57.75

77.54V

BOOK 2053

Resurvey of the Gila and Salt River Base Line through Range 2 West

1 groove on W. faces; with pits 24 x 18 x 12 ins. E. and W. of stone 3 ft. dist. and N. of stone 7 ft. dist. and a mound of earth 4 ft. base 2 ft. high, N. of cor. bears N. 40 lks. dist.

A granite stone 18 x 6 x 6 ins. set 12 ins. in the ground, marked WCSC on N., with 5 groeves on E. and 1 groove on W. faces; with pits 24 x 18 x 12 ins. E. and W. of stone 3 ft. dist. and N. of stone 7 ft. dist.; and a mound of earth 4 ft. base, 2 ft. high, N. of stone; bears S. 35 lks. dist.

No other natural bearings available.

Land, level.

Soil, adobe; 1st. rate.

No timber.

35.35

37.29

N. 89° 49' W. on S. bdy. sec. 31. Along center of road in lane, over level land. cross irrigating ditch 4 lks. wide course S. Difference between measurements of 37.29 chs. by two sets of chairmen is 2 lks.; position of middle point
By 1st. set, 37.30 chs.
By 2nd. set, 37.28 chs.; the mean of which is

The old standard cor of Tps. 1 N. Rgs. 2 and 3 W. I destroy the old marked stone, and reestablish the old

cor. in the same place as follows; Point for cor. falls in road. Deposit a marked stone 12 ins. in the ground for standard cor. of Tps. 1 N. Rgs. 2 and 3 W.; from which:

> An iron telephone pole 3 ins. diam. bears N. 41° 01' E. 56 lks. dist. marked SCB031 A mesquite 12 ins. diam. bears N. 23° 03' W. 119 lks. dist. marked SCTINR3WS36BT.

Land, level. Soil, adobe; 1st. rate. No timber.

Country Co was the

May 23; At this cor. I set off 20° 28 1/2' N. on the dec'l. arc; and observe the sun on the meridian at noon; the resulting lat. is 35° 25' N.

May 23, 1907

John A Heave

Note: This line was run by solar observations, no sights being taken over 15 chains.

GENERAL DESCRIPTION.

This line runs over level land, excepting the mile on the S. bdy. of sec. 36 part of which is mountainous. The land N. and S. of the line on its western half is all under cultivation. There is no timber.

Note:

I have not reported any closing dors, on the Base Line because they were not to be found. I attempted to find the corners half a mile south of the Base line in order to establish the C.C.s, but found that there were no cors. to be found and that in order to properly re-establish these c.c.s., I would have to make a resurvey of T.IS:R.2W. As my contract is only for the resurvey of T.IN:R.2W., and these corners are not necessary to the location of the claims in this township, I did not establish them.

'as en . e ruson . edda . edd e incer edda . Ches. **edds:** . e<mark>ddedd, nordedd</mark>eren . e Calenda edda . edd e edda . edda . edda . edd.

marked woe on W. with "

BOOK 2053 9 76

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individua	als employed by John F. Hesse	
, United	d States Deputy Surveyor, to assist in rur	mino messuring en
marking the lines and corners described in	the foregoing field notes of the survey of	the ast-
and Salt River Base Line th	rough Rg. 2 W.	CITE GITE
showing the respective capacities in which	they acted:	
		9 to 主意
	H. S. Voung. Don Jone	ins, Chainman.
	C. C. Gollin	, Chainman.
	o. C. Collins	, Moundman.
		, Moundman.
		, Axman.
		, Axman.
	W. W. Shawk	Flaaman
FINAL OA	ATH OF ASSISTANTS.	, = vag.man.
We hereby certify that we assisted	John F. Hesse	
	, United States Deputy Survey	or in surveying all
those parts or portions of the the Gila	and Salt River Base Line th	wough R-
2 W.	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	rough kg.
and Salt River meridian, Terri	itory of of rizona wh	the Gila
and Salt River meridian, Terring to the foregoing field notes as having been sure has been in all respects, to the best of our known monuments established, according to	itory of Arizona, whereveed by him and under his direction; as	the Gila ich are represented nd that said survey
and Salt River meridian, Terring to the foregoing field notes as having been sure as been in all respects, to the best of our known monuments established, according to the deneral for Arizona	of itory of Arizona, where the direction; and under his direction; and knowledge and belief, well and faithfully the instructions furnished by the Unite	the Gila ich are represented nd that said survey surveyed, and the d States Surveyor
and Salt River meridian, Terring to the foregoing field notes as having been sure as been in all respects, to the best of our known monuments established, according to the deneral for Arizona	of itory of Arizona, where the direction; and under his direction; and knowledge and belief, well and faithfully the instructions furnished by the Unite	the Gila ich are represented nd that said survey surveyed, and the d States Surveyor
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77 10

2053

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

John F. Hesse	United States Deputy Surveyor, do
	received from
Inited States Surveyor General forAri	izona , bearing date of the
A A LI MOTTEMBET LOUD	18g nave well, faithfully, and 5
41. 4h.	o instructions filthished by the United States
- at the second to the second term of the second terms of the seco	ons of
United States, surveyed all those parts	
Line through has	
	of the Gila and Salt R
Farrit	ory of Arizona., which are represented in the
River meridian, in the 181110	and under my direction: and I do further solemnly
foregoing field notes as having been surveyed by	by me, and under my direction; and I do further solemnly
e : I common hove h	seen estantished and perperdated in state
t T 1 tions and the s	enecial written instructions of the contract
Amigone and it	n the specime; mainter described in the
the critical field notes of suc	ch survey; and should any Irada be detected,
the penalty of perjury under the provisions of a	an Act of Congress approved Hagass s, 222
•	John Wesse United States Deputy Surveyor.
	United States Deputy Surveyor.
Subscribed by said lelm & Sless this day of July	(and sworn to before me)
Subscribed by said	100 7
this day of lay	
	Mant of ingall
000000	Mant Durvey or General Les Orizona
© SEAL © ©©©©©©	W. D. Wrong on Santial
·	for ary ona.
AF	PPROVAL.
OFFICE OF THE UNITI	ED STATES SURVEYOR GENERAL,
	Theening af Mov. 15 = 1, 1907 of the Gila and Dalt River Bas at of the Gila and Dalt River Thru tory of arizona
•	halmy (V), 100
all the gunyoy.	of the Isla and Jast Twee Was
The foregoing field notes of the survey	+ al the Gila and Dalf Twen
Lune Alm Margh	to tour of aris on a
(Base and M) Isu auan A	ari way
John of Hesse	M D deputy surveyor New Mer 10, 1906, , having been tions and explanations made, the said field notes, and the
executed by 142 dated	neweller 1/0/906, 🗰 , having been
under his contract No	ections and explanations made, the said field notes, and the
critically examined, and the necessary corre	
surveys they describe, are hereby approved.	Manh O Sugalla
	United States Surveyor General
Legify that the foregoing transcript	of the field notes of the above-described surveys in
has been c	correctly copied from the original notes on file in this office.
,	

United States Surveyor General.