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BOOK

1810

## FIELD NOTES

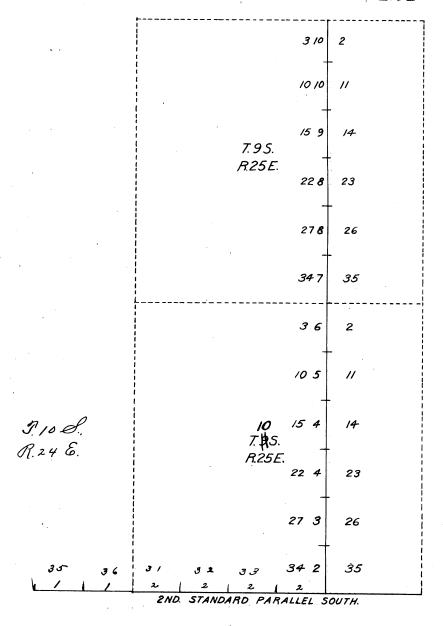
OF THE SURVEY OF of a portion of the Mount Graham Forest Reserve, being the subdivisional lines between Secs. 2 and 3, 10 and 11, 14 and 15, 22 and 23, 26 and 27, 34 and 35, through T. 9-5., R. 25 E., and between Secs. 2 and 3, 10 and 11, 14 and 15, 22 and 23, 26 and 27, 34 and 35, through T. 10 S., R. 25 E., Retracement of south boundary of Secs. 35 and 36. T. 10.S., R. 25 E. Of the Gila and Salt River Meridian, AS SURVEYED BY \_\_\_\_\_, United States <del>Departy</del> Surveyor, W. H. Thorn Under his Contract No. , dated pril 18, 1903 , 189 Survey commenced Nay 23, 1903 , 189 Survey completed May 31, 1903 , 489



### Hames and Duties of Assistants.

J. W. Price,			. Chainman.
			Moundman.
M. F. Bolinger,			the second secon
			lwan.
II T. Spow.		······································	Flagman.
• • • • • • • • • • • • • • • • • • • •	•		
			·
6—151			
· · · · · · · · · · · · · · · · · · ·			
	April 1		
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al Marine de de manda de la composição de	And the second of the second o	trong somer i semiline de cader en treditario et la completação.	and the second s
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## BOOK 1810



## INDEX DIAGRAM..

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(C) BOOK	1810
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### Preliminary Oaths of Assistants.

do solemnly swear that we will well and faithful chain upon even and uneven ground, and plumb we will report the true distances to all notable of	lly execute the duties of the tally pins, either by st objects, and the true leng	icking or dropping the same; that gths of all lines that we assist in
measuring, to the best of our skill and ability, and		
of the Mt. Graham Forest Reserve	•	
		, Chainman.
		, Chainman.
Subscribed and sworn to before me this 22nd	<del>1</del> }	
day of <u>May</u> , 1903, 189	)	II mi
000000 0 SEAL 0 000000		H. Thorn,
		U.S. Surveyor.
WE, John W. Farmor	and W. F. I	Bolinger,
do solemnly swear that we will well and truly p corners, according to the instructions given us, to	erform the duties of mo	undmen in the establishment of
the Mt. Graham Forest Reserve Box		
	*	, Moundman.
	+	, Moundman.
Subscribed and sworn to before me this 221	<u>nd</u> }	· ·
day of <u>Nay, 1903</u> , 189	)	TT m
OCCOCO O SEAL O OCCOCOCO		H. Thorn,
	•	U.S. Surrayar.
WE, I, C. Y. Webb.	and and	
do solemnly swear that we will well and truly per and other duties, according to instructions given	us; to the best of our sl	n in the establishment of corners xill and ability, in the survey of
Subscribed and sworn to before me this		, Axman,
Subscribed and sworn to before me this		
, 100		H. Thorn,
OCCOCO O SEAL O OCCOCOCO		U.S. Surveyor.
I I I Snow		
I,J L Spaw_, perform the duties of flagman according to instruc	tions given me, to the be	swear that I will well and truly
survey of the Mt. Graham Forest Res		그렇게 하는 그는 그는 사람들이 되었다.
Subscribed and sworn to before me this 22nd	J. L. Spaw,	, Flagman.
day of 1903,, 189		
,	7 W	H. Thorn,
000000 0 SEAL 0 000000		
6—151		U. S. Surveyor.



#### Chains.

Survey commenced May 23, 1903, and executed with Young & Sons light mountain transit, with Smith solar attachment, the horizontal limb being provided with two double verniers placed opposite to each other reading to single minutes of arc. which is also the least count of the latitude and declination arcs.

I examine the level and collimation errors and

find them in adjustment.

I test the solar apparatus on the astronomical station established by the U.S. Geological Survey in the Court House yard in Solomonsville, Graham

Rs. 23 and 24 E.

County, Arizona.
May 20, 1903, at the north point of the astronomical station, at 8 a .m., local mean time, I set off 32°50° N. on latitude arc and 12°49° N. on declination arc and determine a meridian with the solar. The moridian thus determined falls at the exact point for the true meridian.

At 4 p.m., local mean time, I set off 32°50' N. on latitude are and 19°53' N. on declination are and determine a meridian with the solar. The meridian thus determined falls at the exact point for the true meridian. The a.m. and p.m. observations fall at the exact point, therefore I conclude that the solar apparatus is in good adjustment.

May 23rd and 24th I search for the standard corner

of secs. 34 and 35, T. 10 S., R. 25 E.

May 25, 1903: At the south gate of Fort Grant Military Reservation, which is near the 1 sec. cor. between\_secs. 13 and 18, west boundary of T.10 S. R. 24 % I did not find a sec. cor.
From this point, I run

South, on a blank line between secs 13 and 18, 19 and 24, 25 and 30, 31 and 36, about 32 miles. Find no trace of standard corner of T. 10 S.,

South Boundary T. 10 S., R. 24 E.

May 26, I run East, on a blank line, along second standard parallel south.

At about 42 miles standard 2 sec. cor. on south boundary of sec. 35, which is a granite rock 24 x 10 x 8 ins., in mound of stone, marked S.C.2 on N. face. I enlarge mound to 4 ft. base, 12

ft. high, around corner stone.

At this f sec. dor. at ll a.m., local mean time,

I set off 32°31' N. on latitude arc and 21°01' N. on declination are and determine a meridian with the solar.

Thence I run East on a random line along south boundary of Sec. 35.

Standard corner of secs. 35 and 36, which is a granite rock 8 x 8 x 6 ins. above ground, firmly set, witnessed and marked, bears N. 18 lks. dist.

Set over corner and continue random line East along south boundary of sec. 36. Counting anew from standard corner to secs. 35 and 36 Standard 4 sec. cor., bears S. 10 lks., which is a granite stone 20 x 12 x 6 ins., in mound of stone

marked S.C. 2 on N. face. I enlarge mound of stone to 4 ft. base, 12 ft. high, around corner.

Continue random line East (do not set over corner).

40.50

41.00

a granite rock

Chains.	
79.50	Standard corner of T. 10 S., Rs. 24 and 25 E.
	which is a cedar post in mound of stone. I en-
	large mound of stone to 5 ft. base, 2 ft. high.
	around post: Post in good state of preservation,
	bears N. 10 lks.
	Set over corner and continue line
40.059	East, along south boundary of S. 31, T.10 S. R.25 E Standard & sec. cor., bears N. 2 lks., which is a
#U. 00	granite stone 10 x 6 x 5 ins., in mound of stone,
	witnessed and marked.
	Set over corner and continue line east.
79.80	Standard corner of secs. 31 and 32, bears S. 10
	lks., which is a granite rock 18 x 6 x 6 ins. in
	mound of stone, witnessed and marked.
	Continue random line
39.90	Rast, along S. 32.
39.50	Standard & sec. cor., bears S. 3 lks. distant which s
	and marked.
	Set over corner and continue line east.
79.85	Standard corner of secs. 32 and 33, bears N. 3 lks.
	which is a granite rock 8 x 10 x 6 ins. above
	ground, firmly set, witnessed and marked. Dis-
	continue chaining at this corner.
	Continue random line along south boundary of Sec.
	33. At about 40.00 chains standard 4 sec. cor.
	bears N. 2 lks., which is a granite rock 8 x 8 x 6 ins. above ground, firmly set, witnessed and mark-
·	ed.
	It being late I direct the telescope east, being
	satisfied with the line and corners found. I
	locate and object and walk towards it and find
	the standard corner of secs. 34 and 35, which is
	a granite rock 16 x 12 x 8 ins., in mound of
	stone, marked S. C. on N. face; 4 notches on W.
	and 2 nothhes on E. faces. I enlarge mound to
	This corner falls in thick growth of live oak
	brush, which made it difficult to find.
	May 26, 1903.
e <sup>r</sup>	
	May 27:
	At the standard corner of secs. 34 and 35, T. 10 S., R. 25 E., on second standard parallel south, at
	9 a.m., local mean time, I set off 32°31 N. on
	latitude are and 21°10' N. on declination are.
	and determine a meridian with the solar.
	Magnetic declination 13°35' E.
	Thence I run,
	N. 0°01' W. on a true line between secs. 34 and
	35 over gradual north slope, through live oak and cats-claw brush.
.06	Set boundary post No. 1, which is an iron post 4
	ft. long, 4 ins. in diam., with brass cap, set 12
	Ins. in the ground; and raise a mound of stone.
£,	6 ft. base, 2 ft. high, around post, marked
	No. 1 on south side of cap; 1903 on south side
	of cap; RESERVE in northwest quadrants.
e ne	No bearing trees in limit.
3.75 25.25	Drain, course N. 30° W. Small drain, course N. 10° E.
30.50	Small drain, course N. E.
34.00	Small drain, course N. E.
39.50	Trop of low ridge, bears N. E. and S. W.
, ,	
**	

T	
Chains.	
40.00	Set a granite rock 26 x 12 x 8 ins. in mound of
40.00	stone, 4 ft. base, 20 ins. high, around stone for
	a sec. cor., marked a on W. face, from which
	A cedar, 8 ins. diam., boars N. 6° E., 52 lks.
1	dist. marked & S. B. T.
	No other trees in limit. Raise mound of stone
	4 2. base, 2 ft. high, west of corner.
40.00	Small drain. course N. 20° E.
49.60	Drain, course N. 20° W. Ascend steep S.W. slope,
5 <b>1.5</b> 0	over large granite boulders.
50.00	Top of large rocky ridge, bears N. 80° W. and
56.90	S. 80° E.: thence over steep west slope.
	At this point I get_off 21°12' N. on declination
57.00	arc, and at 11 <sup>h</sup> 56 <sup>m</sup> 50 <sup>s</sup> , a.m., local mean time,
	observe the sun on the meridian. The resulting
	latitude is 32°32' N., which is a little greater
	18111 ULB AS DE DE No, WITCH IS & LIVE STOWN
	than the proper latitude.
69.25	Small drain, course S. W.
72.00	Change to gradual S. W. slope.
80.00	Set a granite rock 50 x 14 x 14 ins., in mound of stone, 5 ft. base. 25 ft. high, around stone
	stone, 5 17. base, 25 16. high, around stone
	for corner of secs. 26, 21, 34 and 35, marked
	I watan an gautin and 2 nationes on cast laces. I
	Raise mound of stone, 5 ft. base, 2 ft. high.
	west of corner. No trees in limit.
	Land, rough and broken.
.	Soul, 4th rate.
	Timber, a few scattering oak and cedar, live oak
	and cats claw brush. Granite formations.
•	
	At the corner of secs. 26, 27, 34 and 35, at 2 p.m.
	local mean time. I set off 32 32 n. on Latitude
	are and 21°13' N. on declination are, and deter-
	mine meridian with the solar.
	Thence I run
	North 0°01' ". on a true line between secs. 26
	and 27. Ascend gradual S.W. slope.
.15	Small drain, course W.
7.00	Top of rocky ridge, bears E. and W.
9.00	Granite ledge, 50 ft. high, bears E. and W.
	Thence over gradual N. W. slope.
13.50	Change to gradual W. slope, through Park.
22,00	Ascend rocky 8. V. Slore.
26.00	- Man of rocky ridge dears A. and
35.00	Leave Park, bears N. E. and S. W., thence over
	laval land.
40.00	Set a granite rock 30 x 14 x 8 ins. in mound of
	atoma A P4 hoga 2 ft. high Around Stone 101 l
	4 sac cor. marked a on west lace, from whiteh
	t is a sir sole tree 20 ing. in diam. Deale
	S. 50°25' E., 239 lks. dist. marked & S.B.T. A black oak 14 ins. in diam., bears S.44°50'W,
	A black oak 14 ins. in diam., bears S.44 50 W.
	gog Tkg. digt. marked & S.D.T.
65.00	s. E. corner of pasture, bears W. 2.00 chains.
	Ascend gradual S. W. Slope.
80.00	Set a granite rock $24 \times 14 \times 6$ lns. 12 lns. 14
00.00	the ground: raise mound of stone. 4 It. Dase,
	To the high around stone for corner of Secs.
	oo og og omd 97 marked 2 notches on south sig
	neet feed Dig pits 18 x 18 x 12 183, 18 cause
	section 55 ft. dist. Raise mound of earth and
	stone, 4 ft. base, 23 ft high, west of corner,
	BUOME, 4 IU. DOGO, AS IV MADE, HOURS
	from which A granite boulder, 10 ft. high, 10 ft. wide
	east and west, 6 ft. thick, bears N.15°30'E.
	310 lks. dist., marked B.O.
	Smrka, graf, Lighted D. O.
1	

# Hount Graham Forest Reserve Boundary. South Boundary T. 10 S., R. 25 E. Letinal Mes.

	Obodon		
-	Chains.		
	•	Land, mountainous and level.	
		Soil, second and fourth rate.	
		Timber, a few oak and cedar, cats claw and live	
		oak brush. Granite formation.	
		At the corner of goes 20 00 one on at	
1	. •	At the corner of secs. 22, 23, 26 and 27, at 3 p.m., local mean time, I set off 32°32' N. on	
		latitude are and 21°13' N. on declination are.	
		and determine a meridian with the solar.	
	•	Thence I run	
١		North 0°01' W. on a true line between secs. 22	
		and 23.	
	7 00	Ascend gradual S.W. slope through park.	
	1.00 7.00	Wagon road, bears E. and W.	
1	7.00	Ascend steep S.W. slope, over large granite boulders.	
	21.75	Top of rocky ridge, bears N. 70° W. and S. 70° E.	
١		300 ft. above sec. corner.	
	22.50	Granite ledge 100 ft. high, bears N. 70° W. and	
ŀ		S. 70° E. Descend steep north slope.	
	<b>32.0</b> 00	A creek 3 lks. wide. 2 ins. deep nure water	
		course N. E., foot 500 ft, descent.	
	39.00	Bend in same creek from S.E. to N.E. Ascend steep granite bluff 50 ft. high, bears N.E. and S.W. True point for a section falls on steep slope.	
ļ	40.00	granite bluff 50 ft. high, bears N.E. and S.W.	, ,
١	40.00 40.75	True point for a section falls on steep slope.	
	40.70	Set a grantite rock St x 14 x 14 ins. in mound of	
١	•	stone, 5 ft. base, 2g ft. high, around stone, for W.C. & section corner, marked W.C. on west	
1		face, from which	
١	•	A cedar 8 ins. in diam. bears S. 67° E 35	
١		lks. dist., marked & S.W.C.B.T.	
١		An oak 8 ins. in diam. bears N. 34° W., 210	
١		lks. dist., marked { S.W.C.B.T.	
١	•	May 27, 1903.	
I	46.25	May 28:	
l	48.70	Small drain, course N.E.  Small drain, course N.E.	
	53.00	Top of rocky spur, bears E. and W.	
۱	55.25	Side hill drain, course east:	
1	58.77	Wire fence, bears M. and W. Enter pasture.	
١	74.50	Small spring bears E. 150 lks., flows N.E.	
١	80.00	Set a granite rock 36 x 24 x 12 ins. in mound of	
١		stone, 5 ft. base, 2 ft. high, around stone for	
1		corner of secs. 14, 15, 22 and 23, marked with 3 notches on south and 2 nothhes on east faces.	
	,	Raise mound of stone, 5 ft. base, 2 & ft. high.	
l		west of corner.	
		Land, mountainous.	
		Soil, 2nd and 4th rate. live	
		Timber, scattering cedar and oak and cats claw	
	•	brush.	
	·	Granite formation.	
	ı	At the corner of secs. 14, 15, 22 and 23, at 9 a.m.	
		local mean time. I set off 32°34' N. on latitude	
		arc and 21°20' horon declination arc. and deter-	
		mine a meridian with the solar.	
		Thence I run	
		North 0°01' W. on a true line, between secs. 14	
	.25	and 15.	
1		Small drain, course E. Ascend gradual south slope.	
	26.50	Top of ridge, bears E. and W. Descend gradual	
	40.00	north slope.	
	₩U. UU	Set a granite rock 24 x 18 x 10 ins. 18 ins. in the	
		ground for 1 sec. cor., marked 2 on W. face. Dig pits 18 x 18 x 12 north and south of corner.	
		32 ft. dist. Raise mound of earth and stone.	
		31 ft. base, 11 ft. high around post.	
1		hanas	

	TEACH AND	
	Chains.	
	41.19	Wire fence bears E. and W.
	41.40	Solomonsville and Fort Grant Road, bears E. and W.
	41.56	Set boundary post No. 2, which is an iron post 4
		ft. long, 4 ins. in diam., with brass cap, set
		30 ins. in the ground. Raise mound of atone 4
		ft. base, 1 ft. high, around post, marked No. 2
		ft. base, 1 ft. high, around post, marked No. 2 on south side of cap; 1903 on south side of cap;
		RESERVE in S. R. and R. V. quadrants, from which
		A sycamore, 8 ins. in diam., bears N. 7° E.,
ı		93 lks. dist., marked BDY. P.No. 2 B.T.
	42.75	No other trees in limit.
	42,70	A dry creek, 20 lks. wide, course N. 70° E. There
		is running water about 20 chains east of this point. Ascend S.E. slope of mountain.
	51.25	Side hill drain, course S. E.
	57.00	Drain, course S. H.
	65.00	Ranch house, Daudle's, bears E. about 20 chs.
١	71.00	Top of spur, bears E. and T.
١	80.00	Set a granite rock 24 x 16 x 10 ins. in mound of
-		stone 4 ft. base, 1 ft. high, around stone for
		corner of secs. 10, 11, 14 and 15, marked 4 notch-
		es on south and 2 notches on east faces, from which.
١		An oak 20 ins. in diam., bears N. 16° W., 220
	•	lks. dist., marked T. 10 S., R. 25 E., S. 10
-		B. T
I		No other trees in limit.  Raise mound of stone, 4 ft. base, 2 ft. high, west
		of corner.
۱ ا		Land. mountainous.
١		Boil, 4th rate.
-		Timber, scattering sycamore along creek, a few
		scattering oak and cedar trees on hills, cats
١		claw and live oak brush.
١		Granite formation.
١		
I		North 08031 W Amer 24 a hadanaa 25 a 26
١	•	North 0°01' W. on a true line between secs. 10 and 11.
	1.00	Side hill drain, course S.E. Ascend steep S.E.
l	7.00	slope over large granite boulders, cats claw and
1		oak brush.
1	8,00	Top of ridge, bears E. and W. At this point in
1	-	I set off 21°21' N. on declination are, and at
1		11h56m57s, a.m., local mean time, observe the sun
1		on the meridian. The resulting latitude is
		32°35' N. which is the proper latitude.
		Thence over east slope
	9.50	Side hill drain, course H.
	13.50	Side hill drain, course E.
	18.00	Descend steep N. E. slope.
1	28.75	Ravine 2.00 chs. wide, 50 ft. deep, course S. E.
١	38.22	Granite ledge, 30 ft. high, bears E. and V.
١	40.00	Set a granite rock 36 x 12 x 12 ins. in mound of stone, 5 ft. base, 2a ft. high, around stone for
1	`	½ section corner, marked ½ on west face, from
İ	ï	which.
-		An oak 12 ins. in diam. bears N. 64° E., 46
		lks. dist., marked & S.B.T.
-		An oak 7 ins, in diam. bears N. 62°30' W., 269
I	·	lks. dist., marked 4 S.B.T.
1	@# AA	Ascend steep S.E. slope over large granite boulders.
-	57.00	Top of ridge bears W. 70° W. and S. 70 E. 1000 ft.
١		above Fort Grant wagon road. Descend steep north slope, through dense growth of live oak brush.
	76.40	A granite boulder, 40 lks. long, 20 lks. wide, 20
	1 U . 18 U	ft. high, on line.
	80.00	Set a granite rock 36 x 14 x 8 ins. in mound of
	<del>-</del> · -	stone, 5 ft. base, 23 ft. high, around stone for
		corner of secs. 2, 3, 10 and 11, marked with 5

Chains.	
	notches on south and 2 notches on east faces, from
	which An oak 20 ins. in diam. bears N.33°28' E
	254 lks. dist., marked T. 10 S., R. 25 Å.,
	S. 2 B. T. An oak 12 ins. in diam. bears S. 11° E., 110
	1ks. dist., marked T. 10 S., R. 25 E.,
	S. 11 B. T. An oak 18 ins. in diam. bears S. 24°10' W
	195 lks. dist., marked T. 10 C., R. 25 E.,
·	S. 10 B. T. An oak 14 ins. in diam., bears N. 72° W., 155
	lks. dist., marked T. 10 S., R. 25 E.,
	S. 3 B. T. Land, mountainous.
	Soil, 4th rate.
	Timber, scattering oak, dense growth cats claw and live tak brush.
	Large granite boulders.
	North 0°01' W. on a true line between secs. 2 and 3
T.	Descend over N. E. slope, through scattering oak and cedar, dense growth of live oak and cats claw
00	brush.
.90 7.75	Small drain, course N.E. Drain, course N.E.
13.40	A creek, 15 1ks. wide, water sinks in sand, course
	S. 70 E., foot of 900 ft. descent. Ascend steep S. W. slope over large granite boulders.
40.00	Set a granite rock 24 x 10 x 8 ins. in mound of $a = a$
	stone, 4 ft. base, la ft. high, around stone for a section corner, marked a on west face, from
	which,
	An oak 16 ins. in diam. bears N. 50° E., 95 lks. dist. marked 4 S.B.T.
9	An oak 14 ins. in diam. bears N. 17° W., 256
47.50	1ks. dist., marked 2 S.B.T.  Top of ridge bears N. 60° W. and S. 60° E., 950 ft.
21100	above last creek.
/	May 29: At this point, at 9 a.m., local mean time,
	I set off 32°36' N., on latitude are and 21°30'
	N. on declination are, and determine a meridian with the solar. Continue line over gradual
	north slope.
68.00	Descend steep N. E. slope, over large granite boulders.
80.00	True point for corner of secs. 2, 3, 34 and 35,
	north boundary of T. 10 S., R. 25 E., falls on solid granite rock. Cut cross (+) at the exact
	corner point; cut 4 not ches east and 2 not ches
80.34	west of cross for corner secs. 2, 3, 34 and 35. Set boundary post No. 3 for W. C. of secs. 2, 3,
	34 and 35, which is an iron post, 4 ft. long.
·	4 ins. in diam., with brass cap, marked No. 3 on south side of cap; 1903 on south side of cap;
	RESERVE in S.W. and N.W. quadrants; set 1 ft. in
	the ground. Raise mound of stone, 6 ft. base, 2 ft. base, around post, also marked W.C. in
	N. E. quadrant on rim: T. 9 S., S. 35, in N. E.
	quadrant on rim: T. 10 S., S. 2. in S. E. quadrant on rim: R. 25 E., S. 3. in S.W. quadrant
	on rim: S. 34 in H. W. quadrant on rim; 4 notches
	on west and 2 notches on east edges of rim, from which.
	An cak, 4 ins. in diam., bears N. 52° E., 9

```
Chains.
                      1ks. dist., marked T. 9 S., R. 25 E., S. 35
                      W.C.B.T.
                   An oak 10 ins. diam. bears S. 21°45' E. 97
                      1ks. dist., marked T. 10 S., R. 25 E., S. 2
                      W.C.B.T.
                   An oak 4 ins. in diam. bears S. 13°20' W., 40 lks. dist., marked T. 10 S., R. 25 E., S. 3
                      W.C.B.T.
                   A juniper 16 ins. in diam. bears N. 80°40' W.
                      352 lks. dist., marked T. 9 S., R. 25 E.,
                      S. 34 W.C.B.T.
            Land, mountainous.
            Soil, 4th rate.
            Scattering timber, oak, cedar and a few juniper.
Dense growth of live oak, cats claw and manzanita
               brush.
            Granite formation.
                    Sectional Mer. South Boundary T. 9 S., R. 25 E.
           At the W. C. corner of secs. 2, 3, 34 and 35, which is 34 lks. north of the true point south boundary of T. 9 S., R. 25 E., I set off 21°31' N. on declination are and at 11<sup>h</sup>57<sup>m</sup>4<sup>s</sup>, a.m., local mean
               time, observe the sun on the meridian. The re-
               sulting latitude is 32°37' N., which is about
               20" greater than the proper latitude.
            Thence I run
              North, 0°01' W. on a true line between secs. 34
               and 35. Counting from true point for corner of
              secs. 2, 3, 34 and 35, over steep N. E. slope, through oak timber, dense growth of live oak and
              manzanita brush.
           Drain, course N. 70° E. Change to east slope.
18.00
23.00
            Ravine, 2.00 chs. wide, 20 ft. deep, course E.
            Small drain, course E.
25.50
40.00
            Set a granite rock 26 x 10 x 8 ins. in mound of
              stone, 4 ft. base, 20 ins. high, around stone for & section corner, marked & on west face.
              from which
                   An oak 10 ins. in diam. bears N. 26°40' E., 56
           lks. dist., marked 4 S. B. T.

An oak 10 ins. in diam. bears N. 42°40° W.,

107 lks. dist., marked 4 S. B. T.

Ascend steep S. W. slope, over large granite boul-
              ders.
           Saddle divide bears E. and W., 800 ft. ascent.
Thence over steep N. E. slope.
Set a granite rock 30 x 20 x 12 ins. in mound of stone, 5 ft. base, 2 ft. high, around stone for
76.50
80.00
              corner of secs. 26, 27, 34 and 35, marked with
              1 notch on south and 2 notches on east faces.
              from which,
                  A juniper 20 ins. in diam. bears N. 4°50' E., 139 Iks. dist., marked T. 9 S., R. 25 E.,
                     S. 26 B. T.
                  No tree in limit in S. E. quadrant.
                  An oak 5 ins. in diam. bears S. 38°30° W., 56 lks. dist., marked T. 9 S., R. 25 E., S. 36
                     B. T.
                  An oak 10 ins. in diam. bears N. 25° W., 14
                       1ks. dist., marked T. 9 S., R. 25 E., S. 27
              Raise mound of stone, 4 ft. base, 2 ft. high, west
           Land . mountainous.
           Soil, 4th rate.
           Timber, scattering oak, cedar and juniper; dense
              growth of live oak, manzanita and cats claw
```

Chains.	
	brush.
	Large granite boulders.
	North, 0°01' W. on a true line between secs. 26 and
	27. Descend steep N. E. slope, through oak and
	manzanita brush, scattering timber.
,1.55 <b>33.</b> 30	Small drain, course N. E. Ascend S. E. slope. Ravine 5.00 chs. wide, 100 ft. deep, course E.
40.00	True point for a corner falls on bare granite rock.
44.97	A granite stone in place. 4 ft. high, 3 ft. square.
	cut cross (+) on exact corner point for W.C. 1
	section corner, marked W.C. west of cross, from
	which
·	A juniper 14 ins. in diam. bears N. 1° E., 235
	Iks. dist., marked & S.W.C.B.T. A juniper 14 ins. in diam. bears N. 61°15' W.
	94 lks. dist. marked & S.W.C.B.T.
	May 29, 1903.
	May 30: At 8 a.m., local mean time, I set off
	32°39' M. on latitude are and 21°40' N. on de-
	clination arc, and determine a meridian with the solar.
•	Continue line N. 0°01' W., between secs. 26 and 27.
	over large granite boulders.
49.65	Descend steep N. slope.
66.00	Change to steep E. slope.
80,00	Set a granite rock 30 x 18 x 10 ins. in mound of
	stone, 5 ft. base, 2 ft. high, around stone for corner of sections 22, 23, 26 and 27, marked
	with 2 notches on south and east faces, from
	which
	An oak 10 ins. in diam. bears N. 74°15' S.
	118 lks. dist., marked T. 9 S., R. 25 E., S. 23 B. T.
	An oak 14 ins. in diam. bears S. 29°30' E.
	132 1ks. dist., marked T. 9 S., R. 25 E.
•	S. 26 B. T.
	An oak 12 ins. in diam. bears S. 31°50° W
	68 lks. dist., marked T. 9 S., R. 25 E., S. 27 B. T.
	An oak 12 ins. in diam. bears N. 76°30' W.
	122 1ks. dist., marked T. 9 S., R. 25 E.
	S. 22 B. T.
	Land, mountainous. Soil. 4th rate.
·	Timber, scattering oak, juniper and cedar, live
	oak, manzanita and cats claw brush.
	Large granite boulders.
	At the corner of secs. 22, 23, 26 and 27, at 9 a.m.,
	local mean time, I set off 32°39' N. on latitude
	are and 21°40' N. on declination are, and deter-
	mine a meridian with the solar. Thence I run
	North 0°01' W. on a true line between secs. 22
	and 23, over steep N. E. slope, over large gran-
	ite boulders, through live oak and cats claw
	brush.
5.00	Ravine, 3:00 chs. wide, 75 ft. deep, course E. Top of spur bears E. and W.
11.55 22.30	A creek 10 lks. wide, water in pools, course
~ T U V	S. 60° E., foot of 950 ft. descent; ascend grad-
	ual S. slope.
40.00	Set a granite rock 24 x 14 x 12 ins. in mound of
	stone, 4 ft. base, 18 ins. high, around stone for \( \frac{1}{4} \) section corner, marked \( \frac{1}{4} \) on west face.
	from which
* *	

An oak 8 ins. in diam. bears N. 72°50' E., 59 ks. dist., marked & S. B. T.

1417	ZOUTO ME A TANILA MODERNA DE LA COMPANIA	Dechonal Mee.
	Chains.	
		An oak 10 ins. in diam. hears N. 41°20' W.
		105 lks. dist., marked & S. B. T.
	45.00	Ascend steep south slope of mountain.
	52.95	At this point I set off 21°41' N. on declination
		arc and at 11h57m118, a.m., local mean time, ob-
Ì		Serve the sum on the meridian. The resulting
		latitude is 32°39' N., which is the correct lati-
		tude.
	BB 65	Change to steep S. E. slope.
	77.25	Top of mountain bears E. and W., 1500 ft. above last
	80.00	oreek.
	00.00	Set a granite rock 24 x 14 x 12 ins. in mound of
		stone, 4 ft. base, 18 ins. high, around stone for corner of sections, 14, 15, 22 and 23, marked
		with 3 notches on south and 2 notches on east
		faces, from which
		An oak 6 ins. in diam. bears N. 78°10' E., 50
		lks . dist., marked T. 9 S., R. 25 E., S. 14 B.T.
		A yellow pine, 8 ins. in diam. bears S. 44°10° E
١		134 lks. dist., marked T. 9 S., R. 25 E.
-		S. 23 B. T.
-		A yellow pine 14 ins. in diam. bears S.82°30' W.,
١	• ,	51 lks. dist., marked T. 9 S., R. 25 E., S. 22 B. T.
1		A yellow pine 8 ins. in diam. bears N. 16° W.
		26 lks. dist., marked T. 9 S., R. 25 E.
		S. 15 B. T.
ı		Land, mountainous.
I		Soil, 4th rate, over large granite boulders.
ı		Timber, scattering oak, pine and juniper, with a
		few vellow pine near section corner; dense growth of live oak, cats claw and manzanita brush.
	٠.	or raw our, carb craw and manizantra prush.
١		
ĺ		At the corner of secs. 14, 15, 22 and 23, at 2 p.m.,
١		local mean time. I set off 32°40' N. on latitude
۱		arc and 21°42' N. on declination arc, and deter-
		mine a meridian with the solar.
1		Thence I run
		North 0°01' W., on a true line between secs. 14 and
1	t v	15, over top of mountain, over large granite
		boulders, through dense growth of live oak, man- zanita and cats claw brush.
	12.00	Bide hill drain, course E.
	23.50	Change to steep north slope.
	40.00	Set a quarterfock 26 x 16 x 12 ins. in mound of
		stone, 4 ft. base, 20 ins. high, around stone for
		1 sec. cor., marked 1 on west face, from which
	,	A juniper 24 ins. in diam. bears N. 49°50' E.,
		108 lks dist., marked # S. B. T.
		A juniper 6 ins. in diam., bears N. 7°15' W., 172 lks. dist., marked 2 S. B. T.
	55.00	White quartz lead, 100 ft. wide, bears N. and S.
1	64.30	Leave quartz lead, a ledge 50 ft. high, bears E. and W.
l	77.50	Small drain, course N.W.
١	80.00	Set a granite rock 24 x 12 x 10 ins. in mound of
		of stone for corner of sections 10, 11, 14 and 15.
1		marked with 4 notches on south and 2 notches on
		east faces, from which An oak 14 ins. in diam. bears N. 8°10'E., 160
		1ks. dist., marked T. 9 S., R. 25 B., S. 11
		В. Т.
	4.	An oak 8 ins. in diam, bears S. 15°35' E. 69
		An oak 8 ins. in diam. bears S. 15°35' E. 69 lks. dist., marked T.9 S., R. 25 E., S. 14
		$\mathbf{B}_{ullet}$ $\mathbf{T}_{ullet}$
		An oak 6 ins. in diam. bcars S. 76°45' W., 150
		lks. dist., marked T. 9 S., R. 25 E., S. 15 B. T.
		An oak 10 ins. in diam. bears N. 10°35' W. 88
		lks. dist., marked T. 9 S., R. 25 E., S. 10
		B.T

```
Chains.
           Land, mountainous.
           Soil, 4th rate.
           Timber, scattering Juniper, oak and cedar; dense
             growth of live oak, manzanita and cats claw
             brush.
           Large granite boulders.
                                                        May 30, 1903.
           May 31:
           At the corner of secs. 10, 11, 14 and 15, at 8 a.m. local mean time, I set off 32°41° N. on latitude
             arc and 21°49' N. on declination arc, and deter-
             mine a meridian with the solar.
           Thence I run
             North 0°01' W. on a true line between secs.
             10 and 11. over N. slope, through scattering tim-
             ber and live oak brush.
17.50
          Ravine 2.00 chs. wide, 20 ft. deep, course N.60° E.,
             foot of 700 ft. descent, thence over gradual E.
             slope.
29.00
          Change to steep S. E. slope.
36.50
          Change to steep E. slope
40.00
          Set a granite rock 34 x 16 x 12 ins. in mound of
             stone, 5 ft. base, 22 ft. high, around stone for a section corner, marked 4 on west face, from
             which
                An oak 12 ins. in diam. bears S. 61°40' E., 91 lks. dist., marked 2 S.B.T.
An oak 14 ins. in diam. bears S. 19°40' W.
                   66 lks. dist., marked & S.B.T.
          Side hill drain, course E.
46.25
53.40
          Small drain, course E.
55.50
          Drain, course B.
58.50
          Drain, course E.
70.00
          Ravine, 150 lks. wide, 50 ft. deep, course S. 70° E. Ascend steep S.E. slope over bare granite.
80,00
          True point for corner of secs. 2, 3, 10 and 11 falls
             on steep bare granite.
87.23
          Set a granite rock 30 x 15 x 8 ins. for W. C. to
             secs. 2, 3, 10 and 11, marked W. C. on N. E. face; 5 notches on south and 2 notches on east faces,
             set in mound of stone, 5 ft. base, 21 ft. high
            around stone, from which A cedar 16 ins. in diam. bears S. 34°10' E.
                   lks. dist., marked T. 9 S., R. 25 E., S. 11,
                   W.C.B.T.
                A cedar 8 ins. in diam. bears N. 8°35' W. 84 lks. dist., marked T. 9 S., R. 25 E., S. 3,
                   W.C.B.T.
                No other trees in limit.
            Raise mound of stone, 4 ft. base, 2 ft. high.
            west of corner.
          Land, mountainous.
          Soil. 4th rate.
          Scattering oak and cedar timber; dense growth of
            live oak, manganita and cats claw brush.
          Large granite boulders.
         From the W. C. of secs. S. 3, 10 and 11, I run
North 0°01' W. on a true line between secs. 2 and
            3. over steep S. E. slope of mountain.
                                                               Counting
            from the true point for the section corner
         Top of mountain, bears N.E. and S.W., 600 ft. descent.

Descend steep N. W. slope, through live oak brush.

Set a granite rock 22 x 14 x 10 ins. in mound of
14.45
40,00
            stone, 4 ft. base, 13 ft. high, around stone for
            a section corner.
            No trees in limit.
Raise mound of stone, 3 ft. base, 1 ft. high,
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BOOK 1810

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Chains.	
•	west of corner.
45.00	Jacobson creek, 10 lks. wide, 3 ins. deep. pure
	water, rapid current, course N. 80° E.
	Ascend gradual S. E. slope.
60.60	Wagon road, bears N. E. and S. W.
60.80	Set boundary post No. 4, which is an iron post
	4 ft. long, 4 ins. in diam., with brass cap, set
	24 ins. in the ground; raise mound of stone,
	5 ft. base, 1 ft. high, around post, marked:
	No. 4 on south side of cap;
	1903 on south side of cap;
	RESERVE in S.W. and N.W. quadrants.
	At this point I set off 21°50' N. on declination
	are and at 11h57m198 and load many time ob
	are and at 11h57m198 a.m. local mean time ob- serve the sun on the meridian. The resulting lat-
	itude is 32°43' N., which is the correct lati-
	tude.
68,14	Intersect south boundary of T. 8 S., R. 25 E., 5.69
<b>V</b>	chs. west of the corner of secs. 34 and 35, which
	is a granite boulder 3 ft. high, 6 x 3 ft., mark-
*	ed with cross (+) on east face of rock; 4 notches
	on west and 2 notches east of cross, witnessed by
	mound of stone, 4 ft. base, 3 ft. high, north of
***	Corner.
	From the corner of secs. 34 and 35, south boundary of T. 8 S. R. 25 E., I run
	West on a true line, along south boundary of
	S. 34, over granite boulders, through prairie;
٠.	Ascend east slope.
4.20	Top of round butte. Descend west slope.
5.69	At the mutual intersection of the east and west
	and north and south line, set a granite stone
	30 x 12 x 12 ins. in mound of stone, 6 ft. base.
	2 ft. high, around stone for C. C. of secs. 2 and
	3. T. 9 S., R. 25 E., marked C.EC. on south face,
	4 notches on west and 2 notches on east faces;
	raise mound of stone 4 ft. base, 2 ft. high, south
	of corner. Land. mountainous and rolling.
	Soil, 4th rate.
	Timber, cottonwood along creek.
	Granite formation.
	May 31, 1903.

May 31, 1903,

W. H. Thorn. U. S. Surveyor.

## (2)

## LIST OF NAMES.

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BO	OK	18	1	a
				•

A list of the names of the individuals employed by	Tnorn
United States <del>Deputy</del> Surveyor	to aggist in mani-
and corners described in the foregoing field notes of	f the grammer of the
varousii ips. 9 and 10 S., R. 25	Tr Comments
snowing the respective capacities in which they acted:	
J. T. Price, W. L. Foster	
W. L. Foster, John W. Farmer	, Chainma
John W. Farmer,	Chainma
John W. Farmer, W. F. Bolinger,	, Moundma
W. F. Bolinger, C. Y. Webb,	, Moundma
C. Y. Webb, J. F. Spaw.	, Axman.
J. F. Spaw,	Axman.
	, Flagman.
FINAL OATH OF ASSISTA	NTS.
We hereby certify that we assisted W. H. Thorn	
those parts or portions of the states	D
those parts or portions of the subdivisional lines.	<del>Deputy</del> Surveyor, in surveying al
those parts or portions of the subdivisional lines through	sh Tps. 9 and 10 S.
the Gila and Salt River base and meridian,	ef the
f the Gila and Salt River base and meridian,  meridian, State of Arizo	na which
f the Gila and Salt River base and meridian,  meridian, State of Arizo  n the foregoing field notes as having been surveyed by him.	na , which are represented
the Gila and Salt River base and meridian,  meridian, State of Arizo  n the foregoing field notes as having been surveyed by him and under  as been in all respects, to the best of our knowledge and half to the	na , which are represented his direction; and that said survey
the Gila and Salt River base and meridian,  meridian, State of Arizo  n the foregoing field notes as having been surveyed by him and under  as been in all respects, to the best of our knowledge and belief, well  orner monuments established, according to the instructions furnished	na , which are represented his direction; and that said survey and faithfully surveyed, and the
the Gila and Salt River base and meridian,  meridian, State of Arizo  n the foregoing field notes as having been surveyed by him and under  as been in all respects, to the best of our knowledge and belief, well  orner monuments established, according to the instructions furnished  eneral for Director of the United States Geologics	na , which are represented his direction; and that said survey and faithfully surveyed, and the by the United States Surveyer al Survey
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meridian, State of Arizo, and the foregoing field notes as having been surveyed by him and under has been in all respects, to the best of our knowledge and belief, well orner monuments established, according to the instructions furnished eneral for Director of the United States Geologics T. Price,  Li. Foster,  An W. Farmer,  Y. Webb,	of the
The Gila and Salt River base and meridian,  meridian, State of Arizo  n the foregoing field notes as having been surveyed by him and under  as been in all respects, to the best of our knowledge and belief, well  orner monuments established, according to the instructions furnished  eneral for Director of the United States Geologica  T. Price,  L. Foster,  an W. Farmer,  F. Bolinger,  Y. Webb,	of the base  na , which are represented his direction; and that said survey and faithfully surveyed, and the d by the United States Surveyer  al Survey . , Chainman . , Chainman . , Moundman . , Moundman . , Axman . , Axman .
The Gila and Salt River base and meridian,  meridian, State of Arizo  n the foregoing field notes as having been surveyed by him and under  as been in all respects, to the best of our knowledge and belief, well  borner monuments established, according to the instructions furnished  eneral for Director of the United States Geologica  T. Price,  L. Foster,  m. W. Farmer,  F. Bolinger,  Y. Webb,	of the base  na , which are represented his direction; and that said survey and faithfully surveyed, and the d by the United States Surveyer  al Survey . , Chainman . , Chainman . , Moundman . , Moundman . , Axman . , Axman .
The Gila and Selt River base and meridian,  meridian, State of arizo  n the foregoing field notes as having been surveyed by him and under  as been in all respects, to the best of our knowledge and belief, well  orner monuments established, according to the instructions furnished  eneral for Director of the United States Geologics  T. Price,  L. Foster,  an W. Farmer,  Y. Webb,  F. Spaw,	of thebase na, which are represented his direction; and that said survey and faithfully surveyed, and the d by the United States Surveyer al Survey.  Chainman.  Chainman.  Moundman.  Moundman.  Axman.  Flagman
The Gila and Salt River base and meridian.  In the foregoing field notes as having been surveyed by him and under has been in all respects, to the best of our knowledge and belief, well orner monuments established, according to the instructions furnished eneral for Director of the United States Geologics T. Price,  Li. Foster,  An W. Farmer,  Y. Webb,  F. Spaw,	of thebase na, which are represented his direction; and that said survey and faithfully surveyed, and the d by the United States Surveyer al Survey.  Chainman.  Chainman.  Moundman.  Moundman.  Axman.  Flagman
meridian, State of arizo.  In the foregoing field notes as having been surveyed by him and under has been in all respects, to the best of our knowledge and belief, well orner monuments established, according to the instructions furnished leneral for Director of the United States Geological T. Price,  Li. Foster,  hn W. Farmer,  F. Bolinger,  Y. Webb,  F. Spaw,	of the
f the Gila and Salt River base and meridian,  med moridian, State of arizo,  n the foregoing field notes as having been surveyed by him and under  has been in all respects, to the best of our knowledge and belief, well  orner monuments established, according to the instructions furnished  leneral for Director of the United States Geologica  T. Price,  L. Foster,  hn W. Farmer,  Y. Webb,  F. Spaw,  becribed and sworn to before me this 2nd  day of June, 1903, 189	of thebase na, which are represented his direction; and that said survey and faithfully surveyed, and the d by the United States Surveyer al Survey.  Chainman.  Chainman.  Moundman.  Moundman.  Axman.  Flagman

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110	

## Final Oath of United States Deputy Surveyor.

I, Instruct	United States Deputy Surveyor, do
	ions, united States Deputy Surveyor, do ions the Director of the survey , bearing date of the
emnly swear that, in pursuance of a contract rece	Survey bearing date of the
ited States Surveyor General for UCULUS TOWN	an my own
18th day of April, 1903	Director of the
oper person, and in strict conformity with the	Manual of Surveying Instructions, and the laws of the
noral for GEO LOS LOGICAL LEGISLA	the subdivisional lines through
nited States, surveyed all those parts or portions o	of the subdivisional lines through
ng 9 and 10 S. R. 25 E., 01 Line	C. T. Lu.
	O2 0220
C 4 4	OT A 1 1 7 O1164
oregoing field notes as having been surveyed by h	and that and perpetuated in strict accordance with the
wear that all the corners of said survey have been $\epsilon$	established and perpetuated in strict accordance with the Director of the
leneral for Geological Survey and in t	the specific manner described in the field notes, and that
· · · · · · · · · · · · · · · · · · ·	sirvey; and should diff
he foregoing are the original field flotes of such he penalty of perjury under the provisions of an A	Act of Congress approved August o, 1010.
	w н Thorn
	United States <del>Deputy Surveyor.</del>
Subscribed by said	and sworn to before me onts (
2nd day of June, 1903,	, 189
	* ** · · · · · · · · · · · · · · · · ·
Sancacana C	Frank Dysart. Clerk of the District Court in and for Graham County
SEAL O	in and for Graham County. Arizona.
View of	
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Tps. 9 and LU S., R. GU P.,	
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critically examined, and the necessary correct	tions and explanations made, the said field notes, and the
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surveys they describe, are hereby approved.	All A Company Surveyor General
surveys they describe, are hereby approved.	Tripped and the state of the st
	- a. d. Jonical Survey.
	Director, U. S. Geological Survey.
	Director, U. S. Geological Survey.
	- a. G. Jonical Survey.
	Director, U. S. Geological Survey.