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Book M

BOOK 2323

23.33 VUL3. 1977 1/4

FIELD NOTES

OF THE SURVEY OF THE

East Boundary	of Tp. 1 N. Rg. 12 H	Ξ,	
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	Z 9	»)	
$\it Of\ the$.	Gila and Salt R	iver Merida	ian,
	Territory of Ari	zona	
	AS SURVE		
	John F. Hesse	, United States I	Deputy Surveyor,
nder his Contract	No. 158 , dated	June 4th.	
urvey commenced	June 2		, 19 11
urvey completed	June 9	·	

145 (P) BOOK 2323

NAMES AND DUTIES OF ASSISTANTS.

AAA	liver	6	Lauren and
CA Coo	who		6
S. L. (Da	te	6	Hog man
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6—151			

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	-	INDI	EX D	IAGF	RAM.	
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	31	32 :	33	34	35	36

Meanders Page

6-15

BOOK 2323

PRELIMINARY OATHS OF ASSISTANTS.

WE, A. N. Oliver	and R. A. Coombs
do solemnly swear that we will well and faithfu	illy execute the duties of chainmen; that we will level the
chain upon even and uneven ground, and plumb	the tally pins, either by sticking or dropping the same; that
we will report the true distances to all notable	objects, and the true lengths of all lines that we assist in
measuring, to the best of our skill and ability and	d in accordance with instructions given us, in the survey of
the C and W harmdants are	a in accordance with instructions given us, in the survey of
me d. and w. boundaries of Tp.;	2N. Rg. 12 E. and the E. boundary of
Tp. 1 N. Rg. 12 E.	\sim
	G. M. Huss, Chainman.
	R. a. Combo., Chainman.
Subscribed and sworn to before me this 2nd.	· · · · · · · · · · · · · · · · · · ·
day of	
	John J. Kesse
* SEAL (*	
	U.S.Deputy Surveyor
Wn	_
VV E5,	and
do solemnly swear that we will well and truly	perform the duties of moundmen in the establishment
of corners, according to the instructions given	us, to the best of our skill and ability, in the survey of
·	, Moundman.
	, Moundman.
Subscribed and sworn to before me this)
day of, 19	
, 10	
XXXXX W SEAL W	
TV.	
W E,	and
do solemnly swear that we will well and truly per	rform the duties of axmen in the establishment of corners
and other duties, according to instructions given	us, to the best of our skill and ability, in the survey of
	, Axman.
	, Axman.
Subscribed and sworn to before me this)
day of, 19	}
uay or, 19	,

W SEAL (W	
_	
I, R. L. Bates	, do solemnly swear that I will well and truly
perform the duties of flagman according to instruc	ctions given me, to the best of my skill and ability, in the
	of Tp. 2 N. Rg. 12 E. and the E.
boundary of Tp. 1 N. Rg. 12 E.	12 19. 5 N. ng. 15 E. and the E.
	RY Later
	Flagman.
Subscribed and sworn to before me this)
day of, 19 11	
, 10 LL	Orling We so
MERKE MOFAT	June 7. Villa
W SALAL W	U. S. Deputy Surveyor

6—151

BOOK 2323 HF,D

East Boundary of Tp. 1 N. Rg.

Chains.

Survey commenced June 2, 1911, and executed with an A. Lietz Co. light mountain transit, No. 7351, 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, found 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 the cor. of Tps. 1 N. Rgs. 12 and 13 E.; latitude 33° 22' 33" N.; longitude 111° 03' 42" W.; I set off. 33° 22' N. on the lat. arc: 22° 10' N. on the decl. arc and at 5h. 00m. p.m., l.m.t., determine with the solar a meridian and mark a point thereof, on a stone firmly set 5 chs. N. of the cor.

June 2, 1911.

June 3: At 2H. 48m. p.m. by my watch, which has correct l.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. At 6 a.m., 1.m.t., I lay off the azimuth of Polaris, 1° 24' to the west, and mark the meridian thus determined, by cutting a small groove in the stone set June 2, on which the meridian coincides with the mark determined by the solar At 7h. 00m. a.m., l.m.t., I set off 33° 222' N. on the lat. arc; 22° 142' N. on the decl. arc; and mark a point in the meridian determined with the solar, by a cross on the stone already set, 5 chs. N. of my station; this mark coincides with the meridian dstablished by the Polaris observation. The solar apparatus, by p.m. and a.m. observations, defines positions for meridians, respectively which coincide with the meridian established by the Polaris observation; therefore I conclude that the adjustments of the instrument are satisfactory. The magnetic bearing of the true meridian, at 7h. 15m. a.m., is N. 14° 30' W.; the angle thus determined gives the mag. decl. 14° 30' E. From the cor. of Tps. 1 N. Rgs. 12 and 13 E. which is a stone marked and witnessed as described by the surveyor general I run
North bet. secs. 31 and 36
Ascending steep S. E. slope through dense brush. Ridge bears E. and W. descend. Cross wash 20 lks. wide course S. E. Ridge bears N. W. and S. E. descend. Cross wash 15 lks. wide course S. W. ascend. Set a granite stone 18 x 10 x 8 ins. 12 ins. in the ground for \$\frac{1}{4}\$ sec. cor., marked \$\frac{1}{4}\$ on W. face; and raise a mound of stone 2 ft. base \$1\frac{1}{2}\$ ft. high, W. of cor. Pits impracticable. Ridge bears E. and W. descend. Cross wash 20 lks. wide course S. E. Ridge bears E. and W.

52.00

5.75

16.45 22.00

24.10

40.00

59.50

72.87

75.00 80.00

Wash 15 lks. wide course N. E. Mark a cross on a granite rock in place 36, x 24 x 18 ins. above ground, for exact point for cor. of secs. 25 30, 31 and 36, with 1 groove on S. and 5 grooves on N. of cross; and raise a mound of stone 2 ft. base 12 ft. high, W. of cor. Pits impracticable.

East Boundary of Tp. 1 N. Rg. 12 N. Chains, Land, Mountainous. Soil, rocky; 4th. rate. No timber. Undergrowth, very dense manzanita and oak brush. June 3: At this cor. I set off 32° 15½' N. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is 33° 23½' N. North bet. secs. 25 and 30 Ascending steep rocky S. slope through dense brush. Ridge bears N. E. and S. W. and descend along N. E. 1.20 slope. 15.00 Cross wash 10 lks, wide course N. E, Ridge bears N. E. and S. W. Cross wash 20 lks. wide course E. ascend. Point for 4 sec. cor., falls in drain 7 lks. wide course 20.25 32.00 40.00 S. W. so at Set a granite stone 20 x 10 x 8 ins. 15 ins. in the ground for witness $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; 40.25 from which A cedar 10 ins. diam., bears S. 6° W. 51 lks. dist., marked \$25BT. No other tree available. Raise a mound of stone 2 ft. base 1 ft. high, W. of cor. Pits impracticable. Ridge bears E. and W. 76.00 80.00 Set a granite stone 18 x 12 x 6 ins. 12 ins. in the ground for cor. of secs. 19, 24, 25 and 30, marked with 2 notches on S. and 4 notches on N. edges; and raise a mound of stone 2 ft. base 12 ft. high, W. of cor. Pits impracticable. Land, mountainous. Soil, rocky; 4th. rate. No timber. Undergrowth, very dense oak, manzanita and catclaw brush June 3, 1911. June 4: At 7h. 00m. a.m., l.m.t., I set off 33° $24\frac{1}{2}$ ' N. on the lat. arc; 22° 22' N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 19, 24, 25, and 30 Thence I run North bet. secs. 19 and 24 Descending through dense brush. Cross drain 5 lks. wide course N. W. 6.00 19.50 Cross same drain course N. E. Cross wash 20 lks. wide course N. W. ascend. 30.00 Set a granite stone 18 x 10 x 8 ins. 12 ins. in the ground for t sec. cor., marked t on W. face; and raise a mound of stone 2 ft. base 12 ft. high, W. of cor. 40.00 Pits impracticable. 47.90 Ridge bears S. E. and N. W. and descend N. E. slope. Cross drain 5 lks. wide course E. 71.20 Set a granite stone 20 x 8 x 8 ins. 15 ins. in the 80.00 ground for cor. of secs. 13, 18, 19 and 24, marked with 3 notches on N. and S. edges; and raise a mound of stone 2 ft. base 12 ft. high, W. of cor. Pits impracticable.

Land, mountainous.

Soil, rocky; 4th. rate.

No timber.

Undergrowth, very dense oak, catclaw and manzanita brush June 4: At this cor. I set off 22° 22' N. on the decl. arc; and observe the sun on the merdian at noon; the resulting lat. is 33° 25' N./

are alone.		East boundary of Tp. 1 N. Rg. 12 E.
	Chains.	
		North bet. secs. 13 and 18
		Descending along N. E. slope through dense brush.
	29.00	Cross wash 15 lks. wide course N. E., water in pools,
		ascend.
	40.00	Set a granite stone 18 x 10 x 8 ins. 12 ins. in the ground for t sec. cor., marked t on W. face; and raise
		ground for # sec. cor., marked # on W. face; and raise
		a mound of stone 2 ft. base 12 ft. high, W. of cor.
	E R E0	Pits impracticable.
	57.50	Ridge bears N. W. and S. E. descend.
	78.00	Enter oak timber.
	80.00	Set a granite stone 20 x 10 x 6 ins. 15 ins. in the
		ground for cor. of secs. 7, 12, 13 and 18, marked with
		4 notches on S. and 2 notches on N. edges; from which
		An oak 12 ins. diam., bears N. 184°E. 113 lks.
		dist., marked TINR13ES7BT.
		An oak 6 ins. diam., bears S. 61° E. 81 lks. dist., marked TlNR13ES18BT.
		An oak 9 ins. diam., bears S. 71° W. 64 lks.
		dist., marked TINRIZESIZET.
		An oak 10 ins. diam., bears N. $23\frac{1}{4}$ ° W 44 lks.
		dist., marked TINR12ES12BT.
		Land, mountainous.
		Soil, rocky; 4th. rate.
		Timber, oak.
		Undergrowth, catclaw, manzanita and oak brush.
		June 4, 1911.
		Mills man tigan online traps also with the tigan of the tigan of the tigan
		June 5: At 7h. 00m. a.m., 1.m.t., I set off 33° 26' N.
		on the lat. arc; 22° 29' N. on the decl. arc; and deter-
		mine a meridian with the solar at the cor. of secs. 7,
		12, 13 and 18
		Thence I run
		North bet. secs. 7 and 12. Descending through heavy timber and dense brush.
	12.70	
	70010	West fork Pinto Creek running water 10 lkg wide 3 ing
		West fork Pinto Creek, running water 10 lks. wide 3 ins.
	31.20	deep, course E. Leave timber.
	31.20 39.00	deep, course E. Leave timber. Cross drain 5 lks. wide course S. E.
	39.00	deep, course E. Leave timber. Cross drain 5 lks. wide course S. E. Ridge bears S. E. and N. W.
		deep, course E. Leave timber. Cross drain 5 lks. wide course S. E. Ridge bears S. E. and N. W. Mark a cross on a lime stone in place 12 x 10 x 8 ins.
	39.00	deep, course E. Leave timber. Cross drain 5 lks. wide course S. E. Ridge bears S. E. and N. W. Mark a cross on a lime stone in place 12 x 10 x 8 ins. above ground for exact point for the sec. cor.; marked
	39.00	deep, course E. Leave timber. Cross drain 5 lks. wide course S. E. Ridge bears S. E. and N. W. Mark a cross on a lime stone in place 12 x 10 x 8 ins.
	39.00	deep, course E. Leave timber. Cross drain 5 lks. wide course S. E. Ridge bears S. E. and N. W. Mark a cross on a lime stone in place 12 x 10 x 8 ins. above ground for exact point for # sec. cor.; marked t on W. of cross; and raise a mound of stone 2 ft. base
	39.00 40.00 46.30	deep, course E. Leave timber. Cross drain 5 lks. wide course S. E. Ridge bears S. E. and N. W. Mark a cross on a lime stone in place 12 x 10 x 8 ins. above ground for exact point for \$\frac{1}{2}\$ sec. cor.; marked \$\frac{1}{2}\$ on W. of cross; and raise a mound of stone 2 ft. base \$\frac{1}{2}\$ ft. high, W. of cor. Pits impracticable. Cross wash 20 lks. wide course S. W. and ascend steep S. W. slope.
	39.00 40.00	deep, course E. Leave timber. Cross drain 5 lks. wide course S. E. Ridge bears S. E. and N. W. Mark a cross on a lime stone in place 12 x 10 x 8 ins. above ground for exact point for # sec. cor.; marked # on W. of cross; and raise a mound of stone 2 ft. base 12 ft. high, W. of cor. Pits impracticable. Cross wash 20 lks. wide course S. W. and ascend steep S. W. slope. Set a granite stone 20 x 8 x 8 ins. 15 ins. in the
	39.00 40.00 46.30	deep, course E. Leave timber. Cross drain 5 lks. wide course S. E. Ridge bears S. E. and N. W. Mark a cross on a lime stone in place 12 x 10 x 8 ins. above ground for exact point for # sec. cor.; marked # on W. of cross; and raise a mound of stone 2 ft. base 12 ft. high, W. of cor. Pits impracticable. Cross wash 20 lks. wide course S. W. and ascend steep S. W. slope. Set a granite stone 20 x 8 x 8 ins. 15 ins. in the ground for cor. of secs. 1, 6, 7 and 12, marked with 1
	39.00 40.00 46.30	deep, course E. Leave timber. Cross drain 5 lks. wide course S. E. Ridge bears S. E. and N. W. Mark a cross on a lime stone in place 12 x 10 x 8 ins. above ground for exact point for # sec. cor.; marked † on W. of cross; and raise a mound of stone 2 ft. base 12 ft. high, W. of cor. Pits impracticable. Cross wash 20 lks. wide course S. W. and ascend steep S. W. slope. Set a granite stone 20 x 8 x 8 ins. 15 ins. in the ground for cor. of secs. 1, 6, 7 and 12, marked with 1 notch on N. and 5 notches on S. edges; from which
	39.00 40.00 46.30	deep, course E. Leave timber. Cross drain 5 lks. wide course S. E. Ridge bears S. E. and N. W. Mark a cross on a lime stone in place 12 x 10 x 8 ins. above ground for exact point for # sec. cor.; marked † on W. of cross; and raise a mound of stone 2 ft. base 1½ ft. high, W. of cor. Pits impracticable. Cross wash 20 lks. wide course S. W. and ascend steep S. W. slope. Set a granite stone 20 x 8 x 8 ins. 15 ins. in the ground for cor. of secs. 1, 6, 7 and 12, marked with 1 notch on N. and 5 notches on S. edges; from which A mesquite 6 ins. diam., bears S. 49° E. 76 lks.
	39.00 40.00 46.30	deep, course E. Leave timber. Cross drain 5 lks. wide course S. E. Ridge bears S. E. and N. W. Mark a cross on a lime stone in place 12 x 10 x 8 ins. above ground for exact point for \$\frac{1}{2}\$ sec. cor.; marked \$\frac{1}{2}\$ on W. of cross; and raise a mound of stone 2 ft. base 1\frac{1}{2}\$ ft. high, W. of cor. Pits impracticable. Cross wash 20 lks. wide course S. W. and ascend steep S. W. slope. Set a granite stone 20 x 8 x 8 ins. 15 ins. in the ground for cor. of secs. 1, 6, 7 and 12, marked with 1 notch on N. and 5 notches on S. edges; from which A mesquite 6 ins. diam., bears S. 49° E. 76 lks. dist., marked TlNR13ES7 BT.
	39.00 40.00 46.30	deep, course E. Leave timber. Cross drain 5 lks. wide course S. E. Ridge bears S. E. and N. W. Mark a cross on a lime stone in place 12 x 10 x 8 ins. above ground for exact point for \$\frac{1}{2}\$ sec. cor.; marked \$\frac{1}{2}\$ on W. of cross; and raise a mound of stone 2 ft. base \$\frac{1}{2}\$ ft. high, W. of cor. Pits impracticable. Cross wash 20 lks. wide course S. W. and ascend steep S. W. slope. Set a granite stone 20 x 8 x 8 ins. 15 ins. in the ground for cor. of secs. 1, 6, 7 and 12, marked with 1 notch on N. and 5 notches on S. edges; from which A mesquite 6 ins. diam., bears S. 49° E. 76 lks. dist., marked TlNR13ES7 BT. No other trees availabel. Raise a mound of stone 2 ft.
	39.00 40.00 46.30	deep, course E. Leave timber. Cross drain 5 lks. wide course S. E. Ridge bears S. E. and N. W. Mark a cross on a lime stone in place 12 x 10 x 8 ins. above ground for exact point for t sec. cor.; marked t on W. of cross; and raise a mound of stone 2 ft. base 12 ft. high, W. of cor. Pits impracticable. Cross wash 20 lks. wide course S. W. and ascend steep S. W. slope. Set a granite stone 20 x 8 x 8 ins. 15 ins. in the ground for cor. of secs. 1, 6, 7 and 12, marked with 1 notch on N. and 5 notches on S. edges; from which A mesquite 6 ins. diam., bears S. 49° E. 76 lks. dist., marked TlNR13ES7 BT. No other trees availabel. Raise a mound of stone 2 ft. base 12 ft. high, W. of cor. Pits impracticable.
	39.00 40.00 46.30	deep, course E. Leave timber. Cross drain 5 lks. wide course S. E. Ridge bears S. E. and N. W. Mark a cross on a lime stone in place 12 x 10 x 8 ins. above ground for exact point for \$\frac{1}{2}\$ sec. cor.; marked \$\frac{1}{2}\$ on W. of cross; and raise a mound of stone 2 ft. base \$1\frac{1}{2}\$ ft. high, W. of cor. Pits impracticable. Cross wash 20 lks. wide course S. W. and ascend steep S. W. slope. Set a granite stone 20 x 8 x 8 ins. 15 ins. in the ground for cor. of secs. 1, 6, 7 and 12, marked with 1 notch on N. and 5 notches on S. edges; from which A mesquite 6 ins. diam., bears S. 49° E. 76 lks. dist., marked TlNR13ES7 BT. No other trees availabel. Raise a mound of stone 2 ft. base \$1\frac{1}{2}\$ ft. high, W. of cor. Pits impracticable. Land, mountainous.
	39.00 40.00 46.30	deep, course E. Leave timber. Cross drain 5 lks. wide course S. E. Ridge bears S. E. and N. W. Mark a cross on a lime stone in place 12 x 10 x 8 ins. above ground for exact point for t sec. cor.; marked t on W. of cross; and raise a mound of stone 2 ft. base 12 ft. high, W. of cor. Pits impracticable. Cross wash 20 lks. wide course S. W. and ascend steep S. W. slope. Set a granite stone 20 x 8 x 8 ins. 15 ins. in the ground for cor. of secs. 1, 6, 7 and 12, marked with 1 notch on N. and 5 notches on S. edges; from which A mesquite 6 ins. diam., bears S. 49° E. 76 lks. dist., marked TlNR13ES7 BT. No other trees availabel. Raise a mound of stone 2 ft. base 12 ft. high, W. of cor. Pits impracticable. Land, mountainous. Soil, rocky; 4th. rate.
	39.00 40.00 46.30	deep, course E. Leave timber. Cross drain 5 lks. wide course S. E. Ridge bears S. E. and N. W. Mark a cross on a lime stone in place 12 x 10 x 8 ins. above ground for exact point for \$\frac{1}{2}\$ sec. cor.; marked \$\frac{1}{4}\$ on W. of cross; and raise a mound of stone 2 ft. base 12 ft. high, W. of cor. Pits impracticable. Cross wash 20 lks. wide course S. W. and ascend steep S. W. slope. Set a granite stone 20 x 8 x 8 ins. 15 ins. in the ground for cor. of secs. 1, 6, 7 and 12, marked with 1 notch on N. and 5 notches on S. edges; from which A mesquite 6 ins. diam., bears S. 49° E. 76 lks. dist., marked TlNR13ES? BT. No other trees availabel. Raise a mound of stone 2 ft. base 1½ ft. high, W. of cor. Pits impracticable. Land, mountainous. Soil, rocky; 4th. rate. Timber, oak.
	39.00 40.00 46.30	deep, course E. Leave timber. Cross drain 5 lks. wide course S. E. Ridge bears S. E. and N. W. Mark a cross on a lime stone in place 12 x 10 x 8 ins. above ground for exact point for \$\frac{1}{2}\$ sec. cor.; marked \$\frac{1}{4}\$, on W. of cross; and raise a mound of stone 2 ft. base \$\frac{1}{2}\$ ft. high, W. of cor. Pits impracticable. Cross wash 20 lks. wide course S. W. and ascend steep S. W. slope. Set a granite stone 20 x 8 x 8 ins. 15 ins. in the ground for cor. of secs. 1, 6, 7 and 12, marked with 1 notch on N. and 5 notches on S. edges; from which A mesquite 6 ins. diam., bears S. 49° E. 76 lks. dist., marked TlNR13ES7 BT. No other trees availabel. Raise a mound of stone 2 ft. base \$\frac{1}{2}\$ ft. high, W. of cor. Pits impracticable. Land, mountainous. Soil, rocky; 4th. rate. Timber, oak. Undergrowth, catclaw, manzanita and oak brush.
•	39.00 40.00 46.30	deep, course E. Leave timber. Cross drain 5 lks. wide course S. E. Ridge bears S. E. and N. W. Mark a cross on a lime stone in place 12 x 10 x 8 ins. above ground for exact point for \$\frac{1}{2}\$ sec. cor.; marked \$\frac{1}{2}\$ on W. of cross; and raise a mound of stone 2 ft. base \$\frac{1}{2}\$ ft. high, W. of cor. Pits impracticable. Cross wash 20 lks. wide course S. W. and ascend steep S. W. slope. Set a granite stone 20 x 8 x 8 ins. 15 ins. in the ground for cor. of secs. 1, 6, 7 and 12, marked with 1 notch on N. and 5 notches on S. edges; from which A mesquite 6 ins. diam., bears S. 49° E. 76 lks. dist., marked TlNR13ES7 BT. No other trees availabel. Raise a mound of stone 2 ft. base \$\frac{1}{2}\$ ft. high, W. of cor. Pits impracticable. Land, mountainous. Soil, rocky; 4th. rate. Timber, oak. Undergrowth, catclaw, manzanita and oak brush. June 5: At this cor. I set off 22° 29½' N. on the decl.
•	39.00 40.00 46.30	deep, course E. Leave timber. Cross drain 5 lks. wide course S. E. Ridge bears S. E. and N. W. Mark a cross on a lime stone in place 12 x 10 x 8 ins. above ground for exact point for \$\frac{1}{2}\$ sec. cor.; marked \$\frac{1}{2}\$ on W. of cross; and raise a mound of stone 2 ft. base \$\frac{1}{2}\$ ft. high, W. of cor. Pits impracticable. Cross wash 20 lks. wide course S. W. and ascend steep S. W. slope. Set a granite stone 20 x 8 x 8 ins. 15 ins. in the ground for cor. of secs. 1, 6, 7 and 12, marked with 1 notch on N. and 5 notches on S. edges; from which A mesquite 6 ins. diam., bears S. 49° E. 76 lks. dist., marked TlNR13ES? BT. No other trees availabel. Raise a mound of stone 2 ft. base \$\frac{1}{2}\$ ft. high, W. of cor. Pits impracticable. Land, mountainous. Soil, rocky; 4th. rate. Timber, oak. Undergrowth, catclaw, manzanita and oak brush. June 5: At this cor. I set off 22° 29½' N. on the decl. arc; and observe the sun on the meridian at noon; the
	39.00 40.00 46.30	deep, course E. Leave timber. Cross drain 5 lks. wide course S. E. Ridge bears S. E. and N. W. Mark a cross on a lime stone in place 12 x 10 x 8 ins. above ground for exact point for \$\frac{1}{2}\$ sec. cor.; marked \$\frac{1}{4}\$ on W. of cross; and raise a mound of stone 2 ft. base \$\frac{1}{2}\$ ft. high, W. of cor. Pits impracticable. Cross wash 20 lks. wide course S. W. and ascend steep S. W. slope. Set a granite stone 20 x 8 x 8 ins. 15 ins. in the ground for cor. of secs. 1, 6, 7 and 12, marked with 1 notch on N. and 5 notches on S. edges; from which A mesquite 6 ins. diam., bears S. 49° E. 76 lks. dist., marked TlNR13ES7 BT. No other trees availabel. Raise a mound of stone 2 ft. base \$\frac{1}{2}\$ ft. high, W. of cor. Pits impracticable. Land, mountainous. Soil, rocky; 4th. rate. Timber, oak. Undergrowth, catclaw, manzanita and oak brush. June 5: At this cor. I set off 22° 29½' N. on the decl.
	39.00 40.00 46.30	deep, course E. Leave timber. Cross drain 5 lks. wide course S. E. Ridge bears S. E. and N. W. Mark a cross on a lime stone in place 12 x 10 x 8 ins. above ground for exact point for \$\frac{1}{2}\$ sec. cor.; marked \$\frac{1}{2}\$ on W. of cross; and raise a mound of stone 2 ft. base \$\frac{1}{2}\$ ft. high, W. of cor. Pits impracticable. Cross wash 20 lks. wide course S. W. and ascend steep S. W. slope. Set a granite stone 20 x 8 x 8 ins. 15 ins. in the ground for cor. of secs. 1, 6, 7 and 12, marked with 1 notch on N. and 5 notches on S. edges; from which A mesquite 6 ins. diam., bears S. 49° E. 76 lks. dist., marked TlNR13ES? BT. No other trees availabel. Raise a mound of stone 2 ft. base \$\frac{1}{2}\$ ft. high, W. of cor. Pits impracticable. Land, mountainous. Soil, rocky; 4th. rate. Timber, oak. Undergrowth, catclaw, manzanita and oak brush. June 5: At this cor. I set off 22° 29½' N. on the decl. arc; and observe the sun on the meridian at noon; the

11.00 27.80 40.00

North bet. secs. 1 and 6
Ascending S. W. slope through dense brush.
Ridge bears E. and W. descend.
Cross drain 6 lks. wide course N. W.
Set a granite stone 18 x 8 x 6 ins. 13 ins. in the ground for t sec. cor., marked t on W. face; and raise

Chains.

42.00

62.50 65.00 80.00

East boundary of Tp. 1 N. Rg. 12 E.

4 .

a mound of stone 2 ft. base 1 ft. high, W. of cor. Pits impracticable.
Cross wash 30 lks. wide course E.
Ridge bears E. and W.
Cross wash 15 lks. wide course N. E.
Set a limestone 20 x 10 x 10 ins. 15 ins. in the ground for cor. of Tps. 1 and 2 N. Rgs. 12 and 13 E.; marked 2N on N. E.
13E on S. E.
1N on S. W. and
12E on N. W. face; with 6 notches on each edge, and raise a mound of stone 2 ft. base 1 ft. high, S. of cor. Pits impracticable.
Land, mountainous.
Soil, rocky; 4th. rate.
No timber.
Undergrowth, catclaw, manzanita and oak brush.

June 5 , 1911.

South boundary of Tp. 2 N. Rg. 12 E.

5

BINELLISING June 6: At 7h. 00m. a.m., l.m.t., I set off 33° 28' N. on the lat. arc; 22° 36' N. on the decl. arc; and determine a meridian with the solar at the cor. of Tps. l. and 2 N. Rgs. 12 and 13 E. Thence I run West bet. secs. 1 and 36 Ascending steep S. E. slope through dense brush. Drain 6 lks. wide course S. E. 6.50 36.80 Ridge bears N. E. and S. W. Set a granite stone 18 x 6 x 6 ins. 12 ins. in the ground for t sec. cor., marked t on W. face; and raise a mound of stone 2 ft. base 12 ft. high, N. of cor. Pits 40.00 impracticable. Cross wash 15 lks. wide course N. E. and ascend. Set a granite stone 20 x 10 x 6 ins. 15 ins. in the ground for cor. of secs. 1, 2, 35 and 36, marked with 1 notch on E. and 5 notches on W. edges; and raise a 58.50 80.00 mound of stone 2 ft. base 1 ft. high, W. of cor. Pits impracticable. Land, mountaincus. Soil, rocky; 4th. rate. No timber. Undergrowth, catclaw, manzanita and oak brush.

June 6; At this cor. I set off 22° 36½ /N. on the decl.

arc; and observe the sun n the meridian at noon; the
resulting lat. is 33° 28' N.

West bet. secs. 2 and 35 Ascending through dense brush.

14.75 Ridge bears N. E. and S. W. descend.

Cross wash 15 lks. wide course N. E. ascend.
Set a granite stone 20 x 8 x 6 ins. 15 ins. in the ground for t sec. cor., marked t on N. face; and raise a mound of stone 2 ft. base 1 ft. high, N. of cor. Pits impracticable.

41.00 54.00

Ridge bears N. W. and S. E. Cross drain 7 lks. wide course S. E. Set a sandstone 20 x 8 x 4 ins. 15 ins. in the ground for cor. of secs. 2, 3, 34 and 35, marked with 2 notches on E. and 4 notches on W. edges; from which A juniper 8 ins. diam., bears S. 85t W. 77 lks. dist., marked TlNR12ES3BT.

A pinon 4 ins. diam., bears N. 36 W. 147 lks. dist., marked T2NR12ES3BT

No other trees available. Raise a mound of stone 2 ft. base 12 ft. high, W. of cor. Pits impracticable. Land, mountainous.

Soil, rocky; 4th. rate.

No timber.

21.00 40.00

80.00

40.00

Undergrowth, catclaw, manzanita and oak brush.

June 6, 1911.

June 7: At 7h. 00m. a.m., l.m.t., I set off 33° 28' N. on the lat. arc; 22° 42' N / on the decl. arc; and determine a mer dian with the solar at the cor. of secs. 2, 3, 34 and 35

Thence I run

West bet. secs. 3, and 34.

11.00 33.50

Ascending steep rocky S. E. slope through dense brush. Ridge bears N. E. and S. W. Cross drain 7 lks. wide course N. W. ascend. Set a sandstone 24 x 10 x 6 ins. 18 ins. in the ground for \$\frac{1}{4}\$ sec. cor., marked \$\frac{1}{4}\$ on N. face; and raise a mound of stone 2 ft. base \$1\frac{1}{2}\$ ft. high, N. of cor. Pits

impracticable.

South boundary of Tp. 2 N. Rg, 12 E.

chains. **54.**30 Ridge bears N. W. and S. E. descend. Cross drain 7 lks. wide course N. W.. 71.00 Set a granite stone 18 x 12 x 6 ins. 12 ins. in the ground for cor. of secs. 3, 4, 33 and 34, marked with 3 notches on E. and W. edges; from which

A juniper 12 ins. diam., bears N. 424° E. 88 lks.

dist., marked T2NR12ES34BT

A juniper 12 ins. diam., bears N. 354° W. 127 lks.

dist., marked T2NR12ES33BT. 80.00 No other trees available. Raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. Land, mountainous. Soil, rocky; 4th. zate. Timber, scattering juniper and pinon.
Undergrowth, manzanita and oak brush.
June 7: At this cor. I set off 22° 42½' N. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is 33° 28' N. West bet. secs. 4 and 33 Descending through dense brush. Cross Campaign Creek 40 lks. wide course N. E. and asc Set a sandstone 18 x 10 x 6 ins. 12 ins. in the ground for t sec. cor., marked t on N. face; and raise a mound of stone 2 ft. base 12 ft. high, N. of cor. Pits 19.50 40.00 impracticable. Ridge bears N. and S. descend. Cross drain 5 lks. wide course N. W. Mark a cross on a sandstone in place 40 x 24 x 10 ins. 65.35 73.20 80.00 above ground for exact point for cor. of secs. 4, 5, 32 and 33, with 4 grooves on E. and 2 grooves on W. of cross; and raise a mound of stobe 2 ft. base 12 ft. high W. of cor. Pits impracticable. Land, mountainous. Soil, rocky; 4th. rate. No timber. Undergrowth, manzanita and oak brush. June 7, 1911. June 8: At 7h. 00m. a.m., l.m.t., I set off 33° 28' N. on the lat. arc; 22° 48' N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 4, 5, 32 and 33 Thence I run West bet. secs. 5 and 32 Descending through dense undergrowth. 12.75 Cross drain 6 lks. wide course N. W. Ridge bears N. and S. descend.

Crose drain 6 lks. wide course N. W.

Set a malpais stone 18 x 10 x 6 ins. 12 ins. in the ground for # sec. cor., marked # on W. face; from which A pine 18 ins. diam., bears N. 35° E. 56 lks.

dist., marked #\$32BT

An oak 6 ins. diam. 18.00 31.50 40.00 An oak 6 ins. diam., bears S. 324° W. 5 lks. dist., marked ±S5BT Ridge bears N. W. and S. E. 42.50 48.20 Cross drain 5 lks. wide course S. W. Cross wash 30 lks. wide course N. E. 69.00 Set a granite stone 18 x 10 x 8 ins. 13 ins. in the ground for cor. of secs. 5, 6, 31 and 32, marked with 1 notch on **E**. and 5 notches on **E**. edges; from which An oak 6 ins. diam., bears S. 50° W. 39 lks.

dist., marked TINR12ES6BT. 80.00 No other trees available. Raise a mound of stone 2 ft. base l_2^1 ft. high, W. of cor. Pits impracticable.

BCOK 2323

South boundary of Tp. 2 N. Rg. 12 E. Chains. Land, mountainous. Soil, rocky; 4th. rate. Timber, scattering pine, oak and juniper, Undergroth, manzanita and oak brush.

June 8; At this cor. I set off 22° 48½ N. on the decl. arc; and observe the sun on the meradian at noon; the resulting lat. is 33° 28' N. West bet. secs. 6 and 31 Ascending through dense brush. 0.50 Ridge bears N. and S. descend.

Drain 5 lks. wide course N. W. 7.20

20.18 Ridge bears N. and S. 40.00

Set a granite stone 20 x 12 x 8 ins. 15 ins. in the ground for t sec. cor., marked t on N. face; and raise a mound of stone 2 ft. hase 12 ft. high, N. of cor. Pits impracticable.

Reevis Creek 40 lks. wide course N. ascend. Set a granite stone 20 x 8 x 8 ins. 15 ins. in the ground 68.55 79.52 for cor. of Tps. 1 and 2 N. Rgs. 11 and 12 E., marked

with 6 notches on each edge; from which An oak 5 ins. diam., bears N. 414° E. 12 lks. dist., marked T2NR12ES31BT.

An oak 4 ins. diam., bears S. 27° E. 9 lks. dist., marked TlNR12ES6BT.

An oak 6 ins. diam., bears S. 714 W. 54 lks. dist., marked TINR11ES1BT.

An oak 4 ins. diam., bears N. $32\frac{1}{4}$ ° W. 22 lks. dist., marked T2NR11ES36BT.

Land, mountainous. Soil, rocky; 4th. rate.

Timber, scattering pine, juniper and oak. Undergrowth, manzanita and oak brush.

June 8, 1911.

125

West boundary of Tp. 2 N. Rg. 12 E. June 9: At 7h. 00m. a.m., l.m.t., I set off 33° 28' N. on the lat. arc; 22° 532' N. on the decl. arc; and determine a meridian with the solar at the cor. of Tps. Chains. 1 and 2 N. Rgs. 11 and 12 E. Thence I run. North bet. secs. 31 and 36 Ascending through dense brush. Set a granite stone 18 x 8 x 6 ins. 12 ins. in the ground for t sec. cor., marked t on W. face; from which A juniper 6 ins. diam., bears S 51tc E. 48 lks. 40.00 dist., marked \$\frac{1}{4}\$31BT

A juniper 8 ins. diam., bears N. 44\frac{1}{4}c W. 25 lks. dist., marked #S36BT.
Ridge bears N. W. and S. E.
Cross drain 7 lks. wide course N. W. 52.00 61.20 Ridge bears E. and W. Cross drain 5 lks. wide course N. W. Set a granite stone 18 x 10 x 8 ins. 12 ins. in the 75.00 78.50 80.00 ground for cor. of secs. 25, 30, 31 and 36, marked with 1 notch on S. and 5 notches on N. edges; and raise a mound of stone 2 ft. base 1 ft. high, W. of cor. Pits impracticable. Land, mountainous. Soil, rocky; 4th. rate. No timber. Undergrowth, manzanita and oak brush. June 9: At this cor. I set off 22° 54' N. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is 33° $28\frac{1}{2}$! N.

North bet. secs. 25 and 30 Descending through dense brush. 5.70 Cross drain 5 lks. wide course W. Ridge bears E. and W. descend. 11.00 Set a granite stone 20 x 8 x 6 ins. 15 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone 2 ft. base $\frac{1}{2}$ ft. high, W. of cor. Pits 40.00 impracticable. Cross wash 15 lks. wide course N. W. ascend. Cross drain 5 lks. wide course W. Ridge bears E. and W. 44.90 67.00 71.00 Set a granite stone 20 x 10 x 10 ins. 15 ins. in the 80.00 ground for cor. of secs. 19, 24, 25 and 30, marked with 2 notches on S. and 4 notches on N. edges; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, mountainous. Soil, rocky; 4th. rate. No timber.

June 9, 1911.

General Description.

Undergrowth, manzanita and oak brush.

This township is extremely rough and mountainous and is covered with a dense growth of manzanita and oak brush. There is no agricultural land in the township excepting a very small patch in the S. W. cor. of the township, therefore I discontinue the survey of the west boundary at the cor. of secs. 19, 24, 25 and 30 and do not survey either the east or north boundaries.

U. S. Deputy Surveyor

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

+26 9

LIST OF NAMES.

BOOK 2323

, United States Deputy Surveyor, to assist	
	in running, measuring, an
marking the lines and corners described in the foregoing field notes of the sur	vey of the S. and W
boundaries of Tp. 2 N. Rg. 12 E. and the E. bdy. of	Tp. 1 N. Rg. 12 E
showing the respective capacities in which they acted:	
A. N. Oliver	, Chainman
R. A. Coombs	, Chainman
	Moundman
	,
	,
R. L. Bates	
FINAL OATH OF ASSISTANTS.	, Flagman.
We hereby certify that we assisted, United States Deput	
Va 7 4 10 2 m = 1 4	
In the foregoing field notes as having been surveyed by him and under his direction has been in all respects, to the best of our knowledge and belief, well and former monuments established, according to the instructions furnished by	, which are represente ection; and that said surve aithfully surveyed, and the
in the foregoing field notes as having been surveyed by him and under his dir has been in all respects, to the best of our knowledge and belief, well and former monuments established, according to the instructions furnished by the General for Arizona.	ection; and that said surve aithfully surveyed, and the the United States Surveyed
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in the foregoing field notes as having been surveyed by him and under his dir has been in all respects, to the best of our knowledge and belief, well and former monuments established, according to the instructions furnished by the General for Arizona. A. A. Loomh. Subscribed and sworn to before me this 14th.	which are represented ection; and that said survey and the United States Survey of the
R. a. boomt. R. L. Bates	which are represented ection; and that said survey and the United States Survey of the

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR. BOOK John F. Hesse, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Frank S. Ingalls United States Surveyor General for Arizona, bearing date of the 4th. day of June, 1909, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Arizona, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the S. and W. boundaries of Tp. 2 N. Rg. 12 E. and the E. boundary of Tp. 1 N, Rg. 12 E. of the Gila and Salt River meridian, in the Territory of Arizona, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Arizona and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey. and sworn to before me) APPROVAL. OFFICE OF THE UNITED STATES SURVEYOR GENERAL, The foregoing field notes of the survey of executed by __, 19 7, having been under his contract No. _____, dated_

I certify that the foregoing transcript of the field notes of the above-described surveys in....

, has been correctly copied from the original notes on file in this office.

explanations made, the said field notes, and the

United States Surveyor General.

United States Surveyor General.

critically examined, and the necessary corrections and

surveys they describe, are hereby approved.