Accepted May 31 1912

# FIELD NOTES

225

OF THE SURVEY OF THE

Douth au East Sandanies of J. 7. R. 8W.
Could lawest Dumlairs of JM. QTW.
225
2257
of the That Oalt Civer Meridian,  In the State of Executed BY  Sohn State Of Hessen
In the capacity of U.S. Surveyor, under instructions dated August 25, 1910,
issued by the United States Surveyor General to govern surveys included in
Group No. 4, which were approved by the Commissioner of the General Land  Office, Celluly 9, 1910, pursuant to authority contained in the Act of  Congress dated 45. 1910 March 4 1911  Survey commenced Telegrap 4, 1911  Survey completed 4, 1911

BOOK 2257

## INDEX DIAGRAM.

_	Townsh	ip7	21	, Range	J W	····
7	6	5	4	3	2	1
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BOOK 2257

## INDEX DIAGRAM.

Towns	ship	7	, Range	SW:		
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Meanders Page .....

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4.13

## PRELIMINARY OATHS OF ASSISTANTS.

BOOK 2221	and J. N. Bates
VV 13,	execute the duties of chainmen; that we will level the
	ally pins, either by sticking or dropping the same; that
we will report the true distances to all notable object	cts, and the true lengths of all lines that we assist in
measuring, to the best of our skill and ability, and in	accordance with instructions given us, in the survey of
the S. and E. Boundaries of Ph. 7. Boundaries of Pp. 7 11. Ag. 9 W.	M Rg 8 W. and the I and W.
Boundaries of DB. 7 M. Ag. 9 W.	a. G. Lyon, Chainman.
	H Bales, Chainman.
Subscribed and sworn to before me this 2 2	-)
day of Pebruary, 1911	
C C C C C C C C C C C C C C C C C C C	John J. Hesse
SEAL W	U.S. Prausitman
W. D Q. J. Bates	
	erform 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
48 150 11 106	2 M Bo 8 W and the of and W.
De die I De 2 M. Ro 9 W.	P. L. Batez, Moundman.
vsoundaries of p	V. L. Ballz, Moundman.
· · · · · · · · · · · · · · · · · · ·	
and the second second	
Subscribed and sworn to before me this 2 mg	
day of Pebruary, 1911	John J. Hesse.
	John T. Hesse
WEELL W	L. COLL
** SEAL (*) ********	U. S. Drausitman
	U. S. Drausitman
do solemnly swear that we will well and truly perfo	and orm the duties of axmen in the establishment of corners
do solemnly swear that we will well and truly performed and other duties, according to instructions given u	and orm the duties of axmen in the establishment of corners s, to the best of our skill and ability, in the survey of
do solemnly swear that we will well and truly performed and other duties, according to instructions given ut the Y. and E. Boundaries of In	and  orm the duties of axmen in the establishment of corners s, to the best of our skill and ability, in the survey of 6.2 M. Ag. 8 W. and the G. and W.
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do solemnly swear that we will well and truly performed and other duties, according to instructions given ut the Y. and E. Boundaries of In	and  orm the duties of axmen in the establishment of corners s, to the best of our skill and ability, in the survey of S. 2 M. Ag. 8 W. and the G. and W.  Ed Brockway, Axman.
do solemnly swear that we will well and truly performed and other duties, according to instructions given uthe S. and E. Boundaries of J. Boundaries of J. M. Ag. & W.	and  orm the duties of axmen in the establishment of corners is, to the best of our skill and ability, in the survey of the Corners is and the Grand W.  Ed Bruchway, Axman.  Axman.
do solemnly swear that we will well and truly performed and other duties, according to instructions given ut the S. and E. Boundaries of J. D. R. Ag. IW.  Subscribed and sworn to before me this 2 nd	and  orm the duties of axmen in the establishment of corners is, to the best of our skill and ability, in the survey of the Corners is and the Grand W.  Ed Bruchway, Axman.  Axman.
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do solemnly swear that we will well and truly perform the duties, according to instructions given us the S. and E. Boundaries of J. Boundaries of J. Boundaries of J. Boundaries of J. B. 2 M. Co. Sw.  Subscribed and sworn to before me this 2 md day of Pelvurary 1911  I, B. Blanagari  perform the duties of flagman according to instructions	and  orm the duties of axmen in the establishment of corners is, to the best of our skill and ability, in the survey of the surv
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do solemnly swear that we will well and truly perform the duties, according to instructions given us the S. and E. Boundaries of J. Boundaries of J. Boundaries of J. Boundaries of J. B. 2 M. Co. Sw.  Subscribed and sworn to before me this 2 md day of Pelvurary 1911  I, B. Blanagari  perform the duties of flagman according to instructions	and  orm the duties of axmen in the establishment of corners is, to the best of our skill and ability, in the survey of the surv
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#### South boundary of Tp. 7 N. Rg. 9 W.

chains.

Survey commenced February 8, 1911, and executed with an A. Lietz Co. light mountain transit, No. 5631, 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 and approved by the Super-

vising Surveyor 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 located at the # sec. cor. bet.

secs. 22 and 23, Tp. 7 N. Rg. 9 W.; latitude 33° 56' 04"

N. longitude 113° 10' 29" W.; I set off 33° 56' N. on the lat. arc; 15° 03½' S. on the decl. arc; and, at 4h. OOm. p.m., l.m.t., determine with the solar a meridian and mark a point thereof, on a stone firmly set in the ground, 5 chs. N. of my station.

At 10h. 12m. p.m. by my watch, which has correct 1.m.t. I observe Polaris at western 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.

💉 February 8, 1911

February 9: At 7h. 00m. a.m., l.m.t., I lay off the azimuth of Polaris, 1° 24' to the east, and mark the meridian thus determined, by cutting a small groove in the stone set February 8, on which the meridian falls 0.2 ins. west of the mark determined by the solar.

At 8h. 00m. a.m., 1.m.t., I set off 73° 56' N. on the lat. arc; 14° 50½' S. 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 falls 0.2 ins. west of the meridian established by the Polaris observation.

The solar apparatus, by p.m. and a.m. observations, defines positions for meridians, respectively about 0' 11" east and west of the meridian established by the Polaris observations; therefore, I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian, at 8h. 15m. a.m., is N. 14° 30' W.; the angle thus determined gives the mag. decl. 14° 30' E.

I begin at the cor. of Tps. 6 and 7 N. Rgs. 8 and 9 W. previously described in Book "A."

Thence I run West bet. secs. 1 and 36

Over level land, through dense brush.
Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for 4 sec. cor., marked on brass cap #836 on N. and

Sl on S. half; dig pits 18 x 18 x 12 ins. E. and W. of post, 3 ft. dist., and raise a mound of earth 3 ft. base, 1 ft. high, N. of cor.

Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for cor. of secs. 1, 2, 35 and 36, marked on brass cap

T7N in N., T6N in S. and R9W in W. half; S35 in N. W.

S36 in N. E.

Sl in S. E. and S2 in S. W. quadrants; dig pits 18 x 18 x 12 ins. in

40.00

80.00

BOOK 2257

South boundary of Tp. 7 N. Rg. 9 W.

```
Chains.
             each sec. 5\frac{1}{2} ft. dist., and raise a mound of earth 4 ft base 2 ft. high, W. of cor.
             Land, level.
             Soil, 1st. rate; rich sandy loam over 2 ft. deep, dry;
             medium texture; good grass.
             No timber.
             Undergrowth, greasewood, mesquite and catclaw.
             West bet. secs. 2 and 35
             Over level land through dense brush.
Hole in mountain known as Eagles Eye bears S. 18° W.
 32.50
 32.73
             Road bears S. E. and N. W.
 40.00
             Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the
             ground for t sec. cor., marked on brass cap t$35 on N. and $2 on S. half; dig pits 18 x 18 x 12 ins. E. and W.
             of post 3 ft. dist., and raise a mound of earth 3 ft. base 1 ft. high N. of cor.
             Eagles Eye bears S. O' 45' W.
 46.07
             Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 2, 3, 34 and 35, marked on brass cap T7N. in N. T. 6 N. in S. R9W in W. half;
 80.00
             834 in N. W.
             S35 in N. E.
             Sein S. E. and
             S3 in S. W. quadrants; dig pits 18 \times 18 \times 12 ins. in each sec. 5\frac{1}{2} ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, W. of cor.
             Land, level. Soil, lst. rate; rich sandy loam over 2 ft. deep, dry;
             medium texture; some grass.
             No timber.
             Undergrowth, greasewood, mesquite and catclaw.
             West bet. secs. 3 and 34 Over level land, through dense brush.
            Road bears N. W. and S. E.

Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for 4 sec. cor., marked 4834 in N. and S3 in S. half; dig pits 18 x 18 x 12 ins. E. and W. of stone 3 ft dist., and raise a mound of earth 32 ft. base 12 ft.
 26.31
 40.00
             high N. of cor.
 60.40
             Cross wash 6 lks. wide course N.
 64.00
             Cross wash 6 lks. wide course N.
             Cross wash 25 lks. wide course N. Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 3, 4, 33 and 34, marked on
 73.00
80.00
             brass cap
             T7N in N., T6N. in S. and R9w in W. half; 833 in N. W.
             S34 in N. E.
             S3 in S. E. and
             S4 in S. W. quadrants; from which
                      A mesquite 5 ins. diam., bears N. 19° W. 28 lks. dist., marked T7NR9WS33BT

A paloverde 4 ins. diam., bears S 31° W. 177 lks. dist., marked T6NR9WS4BT.
             No other bearings available. Dig pits 18 x 18 x 12 ins.
             in each sec. 5\frac{1}{2} ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, W. of cor.
             Land, level.
             Soil, 1st. rate; rich sandy loam, mixed with gravel,
             over 2 ft. deep, medium texture, dry;
             No timber.
             Undergrowth, greasewood, mesquite and cactus.
             February 9: At this cor. I set off 14° 49' S. on the
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	South boundary of Tp. 7 N. Rg. 9 W.
Chains.	decl. arc; and observe the sun on the meridian at noon; the resulting lat. is 33° 54' N.
	West bet. secs. 4 and 33
1.00	Over level land through dense brush Ascend steep rocky N. E. slope of mountain ridge Ridge bears N. W. and S. E. about 100 ft. high, and descend steep rocky S. W. slope.
18.60 40.00	Cross wash 30 lks. wide course N. and over level land. Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for 4 sec. cor., marked on brass cap 4533 in N. and S4 in S. half; dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist., and raise a mound of earth 32 ft. base 12 ft. high, N. of cor.
40.95 60.00	Cross wash 30 lks. wide course N. Cross wash 25 lks. wide course N.
65.73 74.12	Cross wash 25 lks. wide course N. Cross wash 6 lks. wide course N.
80.00	Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 4, 5, 32 and 33, marked on
	brass cap T7N in N., T6N in S., and R9W in W. half;
	832 in N. W. 833 in N. E.
	S4 in S. E. and S5 in S. W. quadrants; Dig pits 18 x 18 x 12 ins. in
	each sec. 5 ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, W. of cor. Land, level.
	Soil, 1st. rate; rich sandy loam, mixed with gravel; over 2 ft. deep; medium texture, dry; excepting 17.60 chs. over mountain ridge which is rocky and worthless.  No timber.
	Undergrowth, greasewood, mesquite, paloverde, catclaw and cactus.
	West bet. secs. 5 and 32 Over rolling land through dense brush.
10.43	Cross wash 8 lks. wide course N.
17.00 35.20	Cross wash 8 lks. wide course N. Cross wash 15 lks. wide course N.
40.00	Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for # sec. cor., marked on brass cap #832 in N. and S5 in S. half; dig pits 18 x 18 x 12 ins. E. and W.
	of post 3 ft. dist., and raise a mound of earth 32 ft. base 12 ft. high, N. of cor. 4
56.80 60.00	Cross wash 12 lks. wide course N. Cross wash 20 lks. wide course N.
<b>69.1</b> 6 80.00	Cross road bears N. W. and S. E. Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 5, 6, 31 and 32, marked on brass
	cap T7N in N., T6N in S. and R9W in W. half;
	S31 in N. W. S32 in N. E.
	S5 in S. E. and S6 in S. W. quadrants; dig pits 18 x 18 x 12 ins. in each sec. 5 ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, W. of cor.
	Land, rolling. Soil 3rd. rate; Sandy loam, mixed with gravel and rocks; dry; coarse texture; some grass.
	No timber. Undergrwoth, greasewood, mesquite, paloverde, and cactus.

## South boundary of Tp. 7 N. Rg. 9 W.

¢hai	ns.	West bet. secs. 6 and 31.
		Over rolling land, through dense brush
	.90	Cross wash 15 lks. wide course N.
18,	90	Cross wash 12 lks. wide course N. and over land cut by
		deep washes
	.88	Cross wash 10 lks. wide course N.
	40	Crosss wash 6 lks. wide course N.
	70	Cross wash 6 lks. wide course N.
1	45	Cross wash 4 lks. wide course N.
40.	.00	Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the
		ground for t sec. cor., marked on brass cap 4831 in N.
	,	and S6 in S. half; from which
		A paloverde 4 ins. diam., bears S. 68 W. 143
Ì		lks. dist., marked tbobt
		A paloverde 5 ins. diam., bears N. 0° 15' W. 203
		lks. dist., marked 4831BT.
1	.45	Cross wash 25 lks. wide course N.
1	.65	Cross wash 5 lks. wide course N.
	.80	Cross wash 12 lks. wide course N.
	.00	Ascend steep rocky N. E. slope of ridge.
	.00	Ridge and descend steep rocky S. W. slope.
79	<b>.0</b> 3	Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the
		ground for cor. of Tps. 6 and 7 N. Rgs. 9 and 10 W.
		marked on brass cap
		T7N in N.,
		T6N in S.,
		R9W in E. and
		Rlow in W. half; and
1		836 in N. W.
		831 in N. E.
	•	S6 in S. E. and
		Sl in S. W. quadrants; and raise a mound of stone 2 ft.
		base 12 ft. high, S. of cor. Pits impracticable.
		Land, rolling, broken and mountainous.
		Soil, 3rd. and 4th. rate. E. 72.00 chs. nearly level
		land, cut by deep washes, soil sandy loam, mixed with
		rocks and gravel, dry; some grass: W. 7.03 chs. rough
		mountain ridge, rocks, no grass.
		No timber.
		Undergrowth, Paloverde, greasewood, mesquite and cactus.
		February 9, 1911.
i		reprudit at 1211.

118.

_		West boundary of Tp. 7 N. Rg. 9 W.	
	Chains.	H'ADTUSTY A	
		Ascending along steep rocky S. W. slope through dense	
		brush	
	3.00	Ridge bears N. W. and S. E. and ascend steep rocky S.	
	13.50	slope of mountain.	
	10.00	Top mountain 250 ft. high, and descend steep rocky N. slope.	
	29.00	Over nearly level land.	
	31.00	Cross road bears N. W. and S. E.	
	31.58	Cross road bears E. and W.	
	40.00	Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the	
		ground for # sec. cor., marked #836 in W. and 831 in E. half of brass cap; dig pits 18 x 18 x 12 ins. N. and S.	
		of post 3 ft. dist., and raise a mound of earth 3 ft.	
		base 1 ft. high W. of cor.	
	60.00	Cross wash 10 lks. wide course N. W.	
	80.00	Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in	
		the ground for cor. of secs. 25, 30, 31 and 36, marked	
		on brass cap	
		T7N in N. half; RlOWS25 in N. W.	
		R9WS30 in N. E.	
		S31 in S. E. and	
		S36 in S. W. quadrants; dig pits 18 x 18 x 13 ins. in	
		each sec. 52 ft. dist.; and raise a mound of earth 4 ft.	
		base 2 ft. high, W. of cor. Land, level and mountainous.	
		Soil, 1st. and 4th. rate; S. 30.00 chs. rough mountain	
		land; soil, rocks; worthless; no grass. N. 50.00 chs.	
		level land; soil, rich sandy loam, over 2 ft. deep; dry;	
		medium texture; some grass. No timber.	
	ı	Undergrowth; greasewood, paloverde, catclaw and cactus.	ı
		North bet. secs. 25 and 30	
		Over level land through dense brush	
	40.00	Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the	
		ground for t sec. cor., marked on brass cap \$25 in W.	
		and S30 in E. half; dig pits 18 x 18 x 12 insN. and S. of post 3 ft. dist.; and raise a mound of sarth $3\frac{1}{2}$ ft.	
		base la ft. high, W. of cor.	
	72.08	Cross road bears E. and W.	
	76.42	Cross Arizona and California R.R. bears N. 75° E. and	
	77.05	S. 75° W. Cross telegraph line bears N. 75° F. and S. 75° W.	
	80.00	Cross telegraph line bears N. 75° E. and S. 75° W. Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the	<b>.</b>
		ground for cor. of secs. 19, 24, 25 and 30, marked on	•
.		brass cap	
1		T7N in N. half;	
		R10WS24 in N. W. R9WS19 in. N. E.	
		S30 in S. E. and	
		S25 in S. W. quadrants; dig pits 18 x 18 x 12 ins. in	
		each sec. 52 ft. dist.; and raise a mound of earth 4 ft.	
-		base 2 ft. high, W. of cor. Land, level.	
		Soil, 1st. rate; rich sandy loam, mixed with adobe, over	
	-	2 ft. deep; dry, medium texture; some grass.	
		No timber.	
	-	Undergrowth, greasewood, mesquite and cactus.	
Ì			

February 14, 1911.

February 17: At 8h. 00m. a.m., l.m.t., I set off 33° 55½ N. on the lat. arc; 12° 11' S. on the decl. arc; and determine a meridian with the solar at the cor. of secs.

West boundary of Tp. 7 N. Rg. 9 W. 19, 24, 25 and 30 Thence I run North bet. secs. 19 and 24 Over level land through dense brush. Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for 4 sec. cor., marked on brass cap 4824 in W. and S19 in E. half; dig pits 18 x 18 x 12 ins. N. and S. 40.00 of post 3 ft. dist., and raise a mound of earth 32 ft. base 1½ ft. high, W. of cor.
Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 13, 18, 19 and 24, marked 80.00 on brass cap T7N in N. half; RIOWS13 in N. W. R9WS18 in N. E. S19 in S. E. and S24 in S. W. quadrants; dig pits 18 x 18 x 12 ins. in each sec. 5; ft. dist.; and raise a mound of earth 5 ft. base 22ft. high, W. of cor. Land, level. Soil, 1st. rate; rich sandy loam, mixed with adobe, over 2 ft. deep, medium texture, dry; some grass. No timber. Undergrowth, greasewood and mesquite. North bet. secs. 13 and 18 Over level landthrough dense brush Cross road bears N. E. and S. W.
Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for \$\frac{1}{4}\$ sec. cor., marked on brass cap \$\frac{1}{4}\$Sl3 in W. and Sl8 in E. half; dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist., and raise a mound of earth 3\frac{1}{2}\$ ft. 10.05 40.00 base  $1\frac{1}{2}$  ft. high, W. of cor. Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 7, 12, 13 and 18, marked 80.00 on brass cap T7N in N. half; RIOWS12 in N. W. R9WS7 in N. E. S18 in S. E. and S13 in S. W. quadrants; dig pits  $18 \times 18 \times 12$  ins. in each sec.  $5\frac{1}{2}$  ft. dist.; and raise a mound of earth 4 ft base 2 ft. high W. of cor. Land, level.
Soil, lst. rate; rich sandy loam, mixed with adobe, over 2 ft. deep, medium texture, dry; some grass. No timber. Undergrowth, greasewood and chico. North bet. secs. 7 and 12 Ober level land, through scattering brush. Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for t sec. cor., marked on brass cap tS12 in W. and S7 in E. half; dig pits 18 x 18 x 12 ins. N. and S. 40.00 of post 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base  $1\frac{1}{2}$  ft. high, W. of cor. Cross wash 20 lks. wide course S. W. Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 1, 6, 7 and 12, marked on 63.75 80.00 brass cap T7N in N. half; RIOWS1 in N. W. R9WS6 in N. E. S7 in S. E. and Sl2 in S. W. quadrants; dig pits  $18 \times 18 \times 12$  ins. in each sec.  $5\frac{1}{2}$  ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, W. of cor. Land, level.

West	boundary	of	Tp.	7	N.	Rg.	9 W	÷

onains, Soil, lst. rate; rich sandy loam, mixed with adobe, over 2 ft. deep, medium texture, dry; good grass. No timber. Undergrowth, greasewood and chico. North bet. secs. 1 and 6

Over level land through scattering brush.

Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for # sec. cor., marked on brass cap #S1 in W. and S6 in E. half; dig pits 18 x 18 x 12 ins. N. and S. 40.00 of post 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base  $1\frac{1}{2}$  ft. high, W. of cor. Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of Tps. 7 and 8 N. Rgs. 9 and 10 W. 80.00 Marked on brass cap T8N in N. R9W in E. T7N in S. and RlOW in W. half; and \$36 in N. W. \$31 in N. E. S6 in S. E . and S1 in S. W. quadrants; dig pits 24 x 24 x 12 ins. on each line, N. E. and W. 4 ft., and S. of post 8 ft. dist.; and raise a mound of earth 5 ft. base 2 ft. high, S. of cor. Land, level. Soil, 1st. rate, rich sandy loam mixed with adobe, over 2 ft. deep, medium texture, dry; good grass. No timber. Undergrowth, greasewood and chico. February 17: At this cor. I set off 12009! 8. on the decl. arc; and observe the sun on the meridian at noon;

the resulting lat. is 33° 59' N.

South boundary of Tp. 7 N. Rg. 8 W. Chains. February 17; At 2h. 00m. p.m., l.m.t., I set off 33° 54' N. on the lat. arc; 12° 07' S. on the decl. arc; and determine a meridian with the solar at the cor. of Tps. 6 and 7 N. Pgs. 8 and 9 W. Thence I run East bet. secs. 6 and 31 Over level land through dense brush.

Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for 4 sec. cor., marked on brass cap 4831 on N. and S6 in S. half; dig pits 18 x 18 x 12 ins. E. and W. 39.03 of post 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base  $1\frac{1}{2}$  ft. high, N. of cor. Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 5, 6, 31 and 32, marked on brass 79.03 cap T7N in N.; T6N in S.; and R8W in W. half; and S31 in N. W. 832 in N. E. S5 in S. E. and S6 in S. W. quadrants; and dig pits 18 x 18 x 12 ins. in each sec. 52 ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, W. of cor. Land, level. Soil, 1st. rate; rich sandy loam, mixed with adobe, over 2 ft. deep; medium texture; dry; good grass. No timber. Undergrowth, greasewood and mesquite. East bet. secs. 5 and 32.

Over level land through dense brush

Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for t sec. cor., marked on brass cap t332 in N. and S5 in S. half; dig pits 18 x 18 x 12 ins. F. and W. 40.00 of post 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base  $1\frac{1}{2}$  ft. high, N. of cor. Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 4, 5, 32 and 33, marked on 80.00 brass cap T7N in N.; T6N in S.; and R8W in W. half; and S32 in N. W. S33 in N. E. S4 in S. E. and S5 in S. W. quadrants; dig pits 18 x 18 x 12 ins. in each sec. 52 ft. dist., and raise a moundof earth 4 ft. base 2 ft. high, W. of cor. Land, level. Soil, 1st. rate; rich sandy loam, over 2 ft. deep; dry; medium texture; some grass. No timber. Undergrowth, greasewood and mesquite. February 17, 1911. February 18: At 8h. 00m. a.m., l.m.t., I set off 33° 54' N. on the lat. arc; 11° 50' S. von the decl. arc; and determine a meridian with the solar at the cor. of secs. 4, 5, 32 and 33 Thence I run East bet. secs. 4 and 33 Over level land through dense brush Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for t sec. cor., marked on brass cap \$333 on N. and S4 in S. half; dig pits 18 x 18 x 12 ins. F. and W of post 3 ft. dist., and raise a mound of earth 32 ft. base 12 ft. high, W. of cor.
Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 3, 4, 33 and 34, marked on 40.00 80.00

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South boundary of Tp. 7 N. Rg. 8 W.
             brass cap
             T7N in N.; T6N in S.; and R8W in W. half; and
             S33 in N. W.
            $34 in N. E. $3 in S. E. and
            S4 in S. W. quadrants; dig pits 18 \times 18 \times 12 ins. in each sec. 5\frac{1}{2} ft. dist., and raise a mound of earth 4 ft.
             base 2 ft. high, W. of cor.
            Land, level. Soil, lst. rate; rich sandy loam, over 2 ft. deep; dry;
             medium texture, some grass.
             No timber.
            Undergrowth, mesquite and greasewood.
             East bet. secs. 3 and 34
             Over level land through dense brush
             Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for t sec. cor., marked on brass cap tS34 in N. and S3 in S. half; dig pits 18 x 18 x 12 ins. E. and W.
 40.00
             of post 3 ft. dist., and raise a mound of earth 32 ft.
            base 1\frac{1}{2} ft. high, N. of cor.
Set an iron post 3 ft., long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 2, 3, 34 and 35, marked on
 80.00
             brass cap
             T7N in N.; T6N in S.; and R8W in W. half;
             834 in N. W. 835 in N. E.
             S2 in S. E. and
S3 in S. W. quadrants; dig pits 18 x 18 x 12 ins. in
each sec. 52 ft. dist., and raise a mound of earth 4 ft.
             base 2 ft. high, W. of cor.
             Land, level. Soil, lst. rate; rich sandy loam, over 2 ft. deep; dry;
             medium texture; some grass.
             No timber.
             Undergrowth, mesquite and greasewood.
             East bet. secs. 2 and 35
             Over level land through dense brush
             Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for # sec. cor., marked on brass cap, #835 in N. and S2 in S. half; dig pits 18 x 18 x 12 ins. E. and W.
 40.00
             of post 3 ft. dist., and raise a mound of earth 32 ft.
             base 12 ft. high, N. of cor.
Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in
the groundfor cor. of secs. 1, 2, 35 and 36, marked on
80.00
             brass cap
             T7N in N.; T6N in S.; and R8W in W. half;
             $35 in N. W. $36 in N. E.
             Sl in S. E. and S2 in S. W. quadrants; dig pits 18 x 18 x 12 ins. in each sec. 52 ft. dist., and raise a mound of earth 4 ft.
             base 2 ft. high, W. of cor.
            Land, level.
Soil, lst. rate; rich sandy loam, over 2 ft. deep; dry;
             medium texture; some grass.
             No timber.
             Undergrowth, greasewood and mesquite.
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Over level land through dense brush.

Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for t sec. cor., marked on brass cap t536 in N. and Sl in S. half; dig pits 18 x 18 x 12 ins. E. and W.

40.00

South boundary of Tp. 7 N. Rg. 8 W.

68.70 80.00

Chains.

of post 3 ft. dist.; and raise a mound of earth  $3\frac{1}{2}$  ft. base  $1\frac{1}{2}$  ft. high, N. of cor. Cross road bears N. E. and S. W. Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of Tps. 6 and 7 N. Rgs. 7 and 8 W. marked on brass cap

T7N in N.

R7W in E.

T6N in S. and

R8W in W. half; and S36 in N. W. S31 in N. E.

S6 in S. E. and

Sl in S. W. quadrants; dig pits 34 x 34 x 12 ins. on each line, N. F. and W. of post 4 ft. dist., and S. of post 8 ft. dist.; and raise a mound of earth 5 ft. base  $2\frac{1}{2}$  ft. high, S. of cor.

Land, level. Soil, lst. rate; rich sandy loam, over 2 ft. deep,; dry; medium texture; some grass.

No timber.

Undergrowth, greasewood and mesquite. February 18: At this cor. I set off 115 48! S. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is 33° 54' N.

t.

East boundary of Tp. 7 N. Rg. 8 W. or of Tps o and <del>Chains</del> North bet. secs. 31 and 36 Over level land through dense brush Cross road bears N. E. and S. W.
Cross road bears E. and W.
Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for t sec. cor., marked on brass cap t836 on W.
and S31 in E. half; dig pits 18 x 18 x 12 ins. N. and S. 6.84 29.32 40.00 of post 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base  $1\frac{1}{2}$  ft. high, W. of cor. Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 25, 30, 31 and 36, marked 80.00 on brass cap T7N in N. half; and R8W825 in N. W. R7W830 in N. E. S31 in S. E. and S36 in S. W. quadrants; dig pits 18 x 18 x 12 ins. in each sec. 52 ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, W. of cor. Land, level. Soil, lst. rate; rich sandy loam, over 2 ft. deep; dry; medium texture; some grass; No timber. Undergrowth, greasewood and mesquite. North bet. secs. 25 and 30

Over level land through dense brush.

Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for t sec. cor., marked on brass cap t\$25 in W. and \$30 in E. half; dig pits 18 x 18 x 12 ins. N. and S. 40.00 of post 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base  $1\frac{1}{2}$  ft. high, W. of cor. Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 19, 24, 25 and 30, marked 80.00 on brass cap T7N in N. half; R8WS24 in N. W. R7WS19 in N. E. \$30 in S. E. and \$25 in S. W. quadrants; from which A paloverde 5 ins. diam., bears N.  $56\frac{1}{2}$ ° E. 65 lks. dist., marked T7NR7WS19BT. No other bearings available. Raise a mound of stone 2 ft. base, la ft. high W. of cor. Pits impracticable. Land, level. Soil, 1st. and 3rd. rate; S. 78.00 chs. rich sandy loam, over 2 ft. deep; dry; medium texture; some grass; N. 2.00 chs. sandy mixed with rocks; no grass. No timber. Undergrowth, greasewood, mesquite and paloverde. North bet. secs. 19 and 24 Over folling hilly land, through dense brush. Cross wash 6 lks. wide course N. W. 12.50 Cross wash 6 lks. wide course N. W.
Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground for t sec. cor., marked on brass cap t\$24 in W.
and \$19 in E. quadrants; dig pits 18 x 18 x 12 ins. N. 16.70 40.00 and S. of post 3 ft. dist., and raise a mound of earth 32 ft base 12 ft. high W. of cor.
Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 13, 18, 19 and 24, marked 80.00 on brass cap T7Nin N. half; R8WS13 in N. W. R7WS18 in N. E.

S19 in S. E. and

East boundary of Tp. 7 N. Rg. 8 W. Chains. S24 in S. W. quadrants; dig pits 18 x 18 x 12 ins. in each sec. 5½ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, W. of cor. Pits impracticable. Land, level and hilly; Soil; lst. and 3rd. rate; S. 60.00 chs. sandy mixed with rocks; N. 20.00 chs. rich sandy loam, over 2 ft. deep, dry; medium texture; some grass. No timber. Undergrowth, greasewood, mesquite and paloverde. February 18, 1911. February 20: At 8h. com. a.m., l.m.t., I set off 33° 56½ N. on the lat. arc; ll° Q8 S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 13, 18, 19 and 24 Thence I run North bet. secs. 13 and 18

Over level land through dense brush
Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for t sec. cor., marked on brass cap tS13 on W. and S18 on E. half; dig pits 18 x 18 x 12 ins. N. and S. 40.00 of post 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base  $1\frac{1}{2}$  ft. high, W. of cor. Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 7, 12, 13 and 18, marked 00.08 on brass cap T7N in N. half; R8WS12 in N. W. R7WS7 in N. E. S18 in S. E. and S13 in S. W. quadrants; dig pits 18 x 18 x 12 ins. in each sec. 5z ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, W. of cor. Land, level. Soil, lst. rate; rich sandy koam, over 2 ft. deep; dry; medium texture; some grass. No timber. Undergrwoth, greasewoodand mesquite. North bet. secs. 7 and 12 Over level land through dense brush Set an ifon post 3 ft. long, 1 in. diam., 26 ins. in the ground for # sec. cor., marked on brass cap #S12 on W. and S7 on E. half; dig pits 18 x 18 x 12 ins. N. and S. 40.00 of post 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base  $1\frac{1}{2}$  ft. high, W. of cor. Cross road bears E. and W. Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 1, 6, 7 and 12, marked on brace cor. 74.45 80.00 brass cap T7N in N. half; R8WSl in N. W. R7WS6 in N. E. S7 in S. E. and

S12 in S. W. quadrants; dig pits 18 x 18 x 12 ins. in each sec. 5½ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, W. of cor.

Land, level.

Soil, 1st. rate; rich sandy loam, mixed with adobe; over 2 ft. deep; dry; medium texture; some grass. No timber.

Undergrowth, greasewood and mesquite.

### **BOOK** 2257

#### East boundary of Tp. 7 N. Rg. 8 W.

Chaine. North bet. secs. 1 and 6 Over level land through dense brush 6.56 Cross road bears E. and W. Cross Arizona and California R.R. bears N. 75° E. and 8.72 S. 75° W. Cross telegraph line bears N. 75° E. and S. 75° W. Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for t sec. cor., marked on brass cap tSl on W. and S6 on E. half; dig pits 18 x 18 x 12 ins. N. and S. 9.35 40.00 of post 3 ft. dist., and raise a mound of earth 32 ft. base 12 ft. highN. of cor. 61.70 Cross old road bears E. and W. Set an iron post 3 ft. long, 3 ins. diam, 24 ins. in the ground for cor. of Tps. 7 and 8 N. Rgs. 7 and 8 W. 80.00 marked on brass cap T8N in N. R7W in E. T7N in S. and R8W in W. half; and S36 in N. W. S31 in N. E. S6 in S. E. and Sl in S. W. quadrants; dig pits 24 x 24 x 12 ins. on each line, N. E. and W. 4 ft. and S. of post 8 ft. dist. and raise a mound of earth 5 ft. base 22 ft. high, S. of cor. Land, level. Soil, lst. rate; rich sandy loam, mixed with adobe, over 2 ft. deep; dry; medium texture; some grass. No timber. Undergrowth, greasewood and mesquite.
February 20: At this cor. I set off 11° 05' S. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is 33° 59' N.

#### General Description.

The boundaries of Tps.7 N., Rs.8 & 9 W.run over level land, covered with dense brush. There is no water or timber, or indications of mineral. The soil is generally sandy loam, capable of producing abundant crops with irrigation.

John J. Hesse U. S. Mansitman

### FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

## LIST OF NAMES.

BOOK 2257

A list of the names of the individuals employed by	1 F. Hesse
	ssist in running, measuring, and
marking the lines and corners described in the foregoing field notes of the Boundaries of Mp. 7 M. Rg & W. and the S. and W.	e survey of the S and E.
7 N. Ig. 9 W. showing the respective capacities in which they acted:	
J. E. Lyon	Chainman
ON Bate	
J. H. Bates R. R. Bates	, Chainman.
M. A. Bales	, Moundman.
	, Moundman.
Ed. Brockway	Axman.
	, Axman.
L. E. Planaga	···, Flagman.
FINAL OATH OF ASSISTANT	
We hereby certify that we assisted Shu F. A	Vesse
n de la companya de	ausitinan <del>eputy</del> Surveyer, in surveying al
•	
those parts or portions of the G. and E. Boundaries and the G. and W. Boundaries of Pp. 1	of 1/2. 1 M. Org. 8 W
and the of and W. Boundaries of P.p.	7 M. ag, 9 W.
	0
Salt River meridian, Servitory of Trysusin the foregoing field notes as having been surveyed by him and under his has been in all respects, to the best of our knowledge and belief, well a corner monuments established, according to the instructions furnished	s direction; and that said surve and faithfully surveyed, and th
General for Asigona	
a. E. Lyon	, Chainman.
1 A Both	
17 Surp	Chainman.
in the second of	Moundman.
	, Moundman.
(bet Brocke	Axman.
	Axman.
L. C. Hanagan	, Flagman.
Subscribed and sworn to before me this	
day of March, 1911 John	D Hesse
OCCOCC O SEAL O OCCOCCC	J. Dansitman
<b>6-1</b> 51	J. Transitman

## FINAL OATH OF UNITED STATES DEPUTY SURVEYOR. United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Prank & Sugalls United States Surveyor General for Angona, bearing date of the 19/0, 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 \_\_\_\_\_\_\_, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the S. and E. Boundaries 1/p. 7 M. Rg. 8 W and the V. and W. Boundaries of of the Gla and Salt River meridian, in the Desitory of Rigona, 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 and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey. (use, and sworn to before me) APPROVAL OFFICE OF THE UNITED STATES SURVEYOR GENER The foregoing field notes of the survey of - Transition 4, dated dujust J, 19/0, having been under his critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved. United States Surveyor General. 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.

United States Surveyor General,

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