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Book B

2208 BOOK 2208

Accepted Letter E.
Aug 10-1911

2208

FIELD NOTES

2208

OF THE SURVEY OF THE

Re

South and West boundaries of Tp 8 N. Rg. 5 W. and the 2nd Standard Parallel North through Rg. 5 W.

2208

Of the Gila and Salt River *Meridian,*

Territory of Arizona

AS SURVEYED BY

John D. Hesse, *United States Deputy Surveyor,*

Under his Contract No. 158, *dated* June 4, 1909, *19*

Survey commenced August 16, 1909

Survey completed August 24, 1909

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1A

BOOK 2208

NAMES AND DUTIES OF ASSISTANTS.

Fred Keel	Lineman
Fred W. Ozolaff	"
C. Kaufman	"
C. W. Wilson	"
F. W. Schwalm	Measuring

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BOOK 2208

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BOOK 2208

PRELIMINARY OATHS OF ASSISTANTS.

WE, Fred Kesl and Fred W. Rodolf

do solemnly swear that we will well and faithfully 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 in accordance with instructions given us, in the survey of the S. and W. Bdys. of Tp. 8 N Rg. 5 W. and the 2nd Standard Parallel N. through Rg. 5 W.

Fred Kesl, Chainman.

Fred W. Rodolf, Chainman.

Subscribed and sworn to before me this 12th day of August, 1909

C. Kaufman Chainman
C. H. Wilson Chainman

SEAL

John P. Kesse
U. S. Dep. Surveyor

WE, _____ 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

SEAL

WE, _____ and _____

do solemnly swear that we will well and truly perform 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

SEAL

I, F. W. Schwalm, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of the S. and W. bdys. of Tp. 8 N. Rg. 5 W. and the 2nd Standard Parallel N. through Rg. 5 W.

F. W. Schwalm, Flagman.

Subscribed and sworn to before me this 12th day of August, 1909

John P. Kesse
U. S. Dep. Surveyor

SEAL

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No notary available without loss of time and great expense

South boundary of Tp. 8 N. Rg. 5 W.

Chains.	
	August 16: At 7h. 00m. a.m., l.m.t., I set off 33° 59' N. on the lat. arc; 13° 52' N. on the decl. arc; and determine a meridian with the solar at the corner of Tps. 7 and 8 N. Rgs. 4 and 5 W. previously described.
	Thence I run
	West bet. secs. 1 and 36.
40.00	After diligent search I find no trace of ¼ sec. cor.
80.00	No trace of the cor. of secs. 1, 2, 35 and 36 could be found although diligent search was made for this cor.
	I continue my line West making search for the corners without success and setting temp. ¼ sec. and sec. cors. at intervals of 40. 00 chs.; and, at 480.48 chs., intersect W. bdy. of Tp. 28 lks. S. of the cor. of Tps. 7 and 8 N. Rgs. 5 and 6 W. which is a post marked and witnessed as described by the surveyor general. The falling answers to a correction of 0° 02', or 4 2/3 lks. per mile north counting from the S. E. cor. of the township.
	August 16, 1909.

	August 17: At 7h. 00m. a.m., l.m.t., I set off 33° 59' N. on the lat. arc; 13° 32½' N. on the decl. arc; and determine a meridian with the solar at the cor. of Tps. 7 and 8 N. Rgs. 4 and 5 W. Previously described.
	Thence I run
	N. 89° 58' W. bet. secs. 1 and 36, marking and blazing true line.
	Descending steep slope through dense brush,
1.40	Cross drain 5 lks. wide course S. and ascend.
5.00	Ridge bears NE. and SW. and descend.
15.50	Cross wash 25 lks. wide course SW. and ascend.
17.75	Ridge bears N. and S. and descend.
18.00	Cross under elictric transmission line bears N. and S.
28.00	Cross wash 200 lks. wide course SW. and ascend.
31.75	Cross telephone line bears N. and S.
31.90	Ridge bears NE. and SW. and descend.
36.00	Cross wash 40 lks. wide course SW. and ascend.
39.75	Ridge bears N. and S. and descend.
40.04	Set a granite stone 18 x 10 x 8 ins. 12 ins. in the ground for ¼ sec. cor. marked ¼ on N. face; and raise a mound of stone 2 ft. base 1½ ft. high N. of cor. Pits impracticable.
45.40	Cross wash 75 lks. wide curse SW. and ascend.
49.00	Ridge bears N. and S. and descend.
57.55	Cross irrigating ditch 4 lks. wide course S.
58.00	Over river bottom
68.00	Cross Hassayampa River running water 8 ins, deep 100 lks. wide course S.
70.00	Leave river bottom.
70.18	Wire fence bears N. and S.
72.88	Cross old irrigating ditch 4 lks. wide course S.
79.00	Cross fence bears NE. and SW.
80.08	Set a granite stone 28 x 12 x 8 ins. 21 ins. in the ground for cor. of secs. 1, 2, 35 and 36, marked with 5 notches on W. and 1 notch on E. edges; from which A cottonwood 30 ins. diam. bears S. 7½° W. 359 lks. dist., marked T7NR5WS2BT. No other trees within limits. Raise a mound of stone 2 ft. base 1½ ft. high, W. of cor. Pits impracticable. Land, mountainous and level. Soil, sandy, stony and loamy; 1st. and 4th. rate. No timber. Undergrowth, Mesquite , arrowweed, greasewood, paloverde and cactus. Mountainous land and land covered with dense undergrowth 80.08 chs.

South boundary of Tp. 8 N. Rg. 5 W.

Chains.	
	N. 89° 58' W. bet. secs. 2 and 35.
	Over level land through dense underbrush.
2.00	Over cultivated land.
6.42	Cross irrigating ditch 5 lks. wide course S. and leave cultivated land, and ascend steep slope through dense brush.
9.50	Ridge bears N. and S. and descend.
13.60	Cross drain course SE. 10 lks. wide and ascend.
14.10	Cross fence bears N. and S.
14.50	Cross telephone line bears N. and S.
15.10	Cross road bears N. and S.
18.50	House bears North 15 lks. dist.
31.00	Ridge bears NW. and SE. and descend.
37.60	Along in wash 20 lks. wide bears N.E.
40.04	Point for ¼ sec. cor. falls in wash.
40.20	Leave wash course S. W. and ascend.
41.84	Set a granite stone 24 x 10 x 8 ins. 18 ins. in the g ground for Witness ¼ sec. cor., marked W C ¼ on N. face; and raise a mound of stone 3 ft. base 1½ ft. high, N. of cor. Pits impracticable.
42.00	Ridge bears N. E. and S. W. and descend.
46.50	Cross wash 95 lks. wide course S. W. and ascend.
51.30	Ridge bears N. and S. and descend.
52.15	Cross wash 50 lks. wide course S.
53.40	Cross wash 50 lks. wide course S. E. and ascend.
73.00	Ridge bears N. and S. and descend.
80.08	Set a limestone 18 x 8 x 4 ins. 12 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 paloverde 4 ins. diam., bears N. 26½° E. 90 lks. dist., marked T8NR5WS35BT. A paloverde 4 ins. diam., bears S. 52° E. 108 lks. dist., marked T7NR5WS2BT. Apaloverde 4 ins. diam., bears S. 64¼° W. 61 lks. dist., marked T7NR5WS3BT. A paloverde 4 ins. diam., bears N. 13° W. 43 lks. dist., marked T8NR5WS34BT. Land, mo Land, mountainous and level. Soil, loamy and stony; 1st. and 4th. rate. No timber. Undergrowth, paloverde, mesquite, greasewood, arrowweed and catclaw. Mountainous land and land covered with dense undergrowth 80.08 chs. August 17: At this cor. I set off 13° 38' N. on the decl. arc; and observe the sun on the meridian at noon, the resulting lat. is 33° 59' N.

	N. 89° 58' W. bet. secs. 3 and 34.
	Over rolling land through dense brush.
3.50	Cross ridge bears N. and S.
6.50	Cross drain, 10 lks. wide course S.
8.00	Cross ridge bears N. and S.
12.00	Cross drain bears S. 10 lks. wide
14.50	Ridge bears N. and S.
16.50	Cross drain 10 lks. wide course S.
23.00	Cross ridge bears N. and S.
32.00	Cross drain 5 lks. wide course S.W.
39.40	Cross wash 15 lks. wide course S.
40.04	Set a limestone 18 x 10 x 8 ins. 12 ins. in the ground for ¼ sec. cor., marked ¼ on N. face; dig pits 18 x 18 x 12 ins. E. and W. of stone 3 ft. dist., and raise a mound of earth 3½ft. base 1½ ft. high N. of cor.
44.00	Cross wash 30 lks. wide course S.
48.50	Cross road bears N. and S.
52.00	Cross drain 5 lks. wide course SE.
56.00	Ridge bears N. and S.

South boundary of Tp. 8 N. Rg. 5 W.

Chains.	
66.00	Cross drain 5 lks. wide course S.
70.50	Ridge bears N. and S.
72.00	Cross drain 5 lks. wide course S.
79.00	Ridge bears N. and S.
80.08	Set a malpais stone 18 x 10 x 8 ins. 12 ins. in the ground for cor. of secs. 3, 4, 33 and 34, marked with 3 notches on E. and W. edges; and raise a mound of stone 2 ft. base 1½ ft. high, W. of cor. Pits impracticable.
	Land, rolling mountains.
	Soil, stony; 4th. rate.
	No timber.
	Undergrowth, mesquite, greasewood and paloverde.
	Mountainous land and land covered with dense undergrowth 80.08 chs.

August 17, 1909.

August 18: At 7h. 00m., a.m., l.m.t., I set off 33° 59' N. on the lat. arc; 13° 13½' N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 3, 4, 33 and 34

Thence I run

N. 89° 58' W. bet. secs. 4 and 33

Over broken land through dense brush.

4.90	Cross drain 5 lks. wide course S. W.
6.00	Cross drain 5 lks. wide course S.
12.50	Along in wash 40 lks. wide course S. E.
24.00	Leave wash bears S. W.
27.00	Cross road bears N. W. and S. E.
33.25	Cross same road bears S. W. and N. E.
38.00	Cross same road bears N. W. and S. E.
40.04	Set a malpais stone 18 x 12 x 6 ins. 12 ins. in the ground for ¼ sec. cor., marked ¼ on N. face: from which A mesquite 6 ins. diam., bears S. 33° E. 78 lks. dist., marked ¼S4BT.
	No other trees abailable. Raise a mound of stone 2 ft. base 1½ ft. high, N. of cor. Pits impracticable.
48.00	Along in wash 100 lks. wide course S. E.
66.35	Leave wash bears N. W.
67.16	Cross S. F. P. & P. Ry. bears N. W. and S. E.
68.41	Cross telegraph line bears N. W. and S. E.
74.60	Ridge bears N. and S.
78.00	Cross wash 15 lks. wide course S.
80.08	Set a malpais stone 18 x 10 x 6 ins. 12 ins. in the ground for cor. of secs. 4, 5, 32 and 33, marked with 4 notches on E. and 2 notches on W. edges; and raise a mound of stone 2 ft. base 1½ ft. high, W. of cor. Pits impracticable.
	Land, broken.
	Soil, stony; 3rd. rate.
	No timber.
	Undergrowth, mesquite, greasewood and paloverde.
	Mountainous land and land covered with dense undergrowth 80.08 chs.

N. 89° 58' W. bet. secs. 5 and 32

Ascending through dense underbrush.

5.70	Ridge bears S. W. and N. E. and descend.
8.50	Cross drain 5 lks. wide course N. E. and ascend.
12.00	Ridge bears N. and S.
16.00	Old road bears S. W. and N. E.
34.00	Along in wash 10 lks. wide course S. E.

South boundary of Tp. 8 N. Rg. 5 W.

Chains.	
39.00	Leave wash bears N. W.
40.04	Set a malpais stone 18 x 9 x 5 ins. 12 ins. in the ground for ¼ sec. cor., marked ¼ on N. face; from which A catclaw 4 ins. diam., bears N. 57½° E. 124 lks. dist., marked ¼S32BT. No other trees available. Raise a mound of stone 2 ft. base 1½ ft. high, N. of cor. Pits impracticable.
49.00	Cross old road bears N. W. and S. E.
51.00	Ascend.
60.65	Ridge bears N. and S. Railroad station bears N. 33° 10' W. A & C Junction. Descend.
69.45	Cross wash 25 lks. wide course N. E. Telephone line bears N. W. and S. E.
75.50	Cross wash 35 lks. wide course N. E. Ascend,
80.08	Set a malpais stone 18 x 8 x 6 ins. 12 ins. in the ground for cor. of secs. 5, 6, 31 and 32, marked with 5 notches on E. and 1 notch on W. edges; and raise a mound of stone 2 ft. base 1½ ft. high, W. of cor. Pits impracticable.
	August 18; At this cor. I set off 13° 08½' N. on the decl. arc; and observe the sun on the meridian at noon;; the resulting lat. is 33° 59' N.
	Land, rolling mountains.
	Soil; Stony 3rd. rate.
	No timber.
	Undergrowth, Mesquite, greasewood, catclaw, and paloverde.
	Mountainous land and land covered with dense undergrowth 80.08 chs.

	N. 89° 58' W. bet. secs. 6 and 31.
	Ascending through dense brush.
1.25	Ridge bears N. and S. and descend.
5.00	Ascend SE. slope.
10.00	Ridge bears NE. and SW and descend.
17.25	Cross drain bears N. E.
22.50	Cross drain bourse N. E. and ascend.
35.00	Ridge bears N. E. and S. W. and descend.
40.04	Set a malpais stone 18 x 8 x 6 ins. 12 ins. in the ground for ¼ sec. cor., marked ¼ on N. face; from which A paloverde 4 ins. diam., bears S. 12½° W. 47 lks. dist., marked ¼S6BT. A paloverde 4 ins. diam., bears N. 66° W. 12 lks. dist., marked ¼S31BT.
41.50	Cross drain 5 lks. wide course S. and ascend.
53.00	Ridge bears N. and S. and descend.
58.00	Cross drain 5 lks. wide course N. and ascend,
64.00	Ridge bears N. and S. and descend.
74.00	Cross wash 30 lks. wide cousre N. E. and ascend.
80.08	The cor. of Tps. 7 and 8 N. Rgs. 5 and 6 W. As the old post is rotted I destroy this cor. and reestablish it in the same place as follows; Set a malpais stone 20 x 10 x 10 ins. 15 ins. in the ground for cor. of Tps. 7 and 8 N. Rgs. 5 and 6 W. marked 8N on N. E., 5 W. on S. E., 7N on S. W. and 6W on N. W. faces; with 6 notches on each edge; and raise a mound of stone 2 ft. base 1½ ft. high S. of cor. Pits impracticable.
	Land, rolling mountains.
	Soil, stony; 3rd. rate;
	No timber.
	Underbrush, mesquite, greasewood, and paloverde.

August 18, 1909.

West boundary of Tp. 8 N. Rg. 5 W.

Chains.	
	August 19: At 7h. 00m., a.m., l.m.t., I set off 33° 59' N. on the lat. arc: 12° 54' N. on the decl. arc: and determine a meridian with the solar at the cor. of Tps. 7 and 8 N., Rgs. 5 and 6 W. previously described.
	Thence I run.
	North bet. secs. 31 and 36
40.00	After diligent search I find no trace of the ¼ sec. cor.
80.00	Make diligent search but could find no trace of the cor. of secs. 25, 30, 31 and 36.
	I continue my line North making search for the corners without success and setting temp. ¼ sec. and sec. cors. at intervals of 40.00 chs.; and, at 400.80 chs. fall 13 lks. W. of the cor. of secs. 1, 6, 7 and 12 Tps. 8 N. Rgs. 5 and 6 W. which is a post marked and witnessed as described by thr surveyor general. The falling answers to a correction of 0° 01', Or 2 1/3 lks. E. per mile counting from the S. W. cor. of the township.
	August 19, 1909.

	August 20: At 7h. 00m., a.m., l.m.t., I set off 33° 59' N. on the lat. arc: 12° 34½' N. on the decl. arc; and determine a meridian with the solar at the cor. of Tps. 7 and 8 N. Rgs. 5 and 6 W. previously described.
	Thence I run
	N. 0° 01' E. bet. secs. 31 and 36 marking and blazing true line.
	Descending through dense brush
8.00	Cross wash 25 lks. wide course N. E. and ascend.
12.40	Ridge bears E. and W. and descend.
20.25	Cross wash 150 lks. wide course E.
23.55	Cross Arizona & California R. R. in curve, bears N. W. and N. E.
24.25	Cross telegraph line bears N. W. and N. E.
32.65	Cross road bears E. and W.
40.02	Set a malpais stone 18 x 12 x 8 ins. 12 ins. in the ground for ¼ sec. cor., marked ¼ on W. face; and raise a mound of stone 2 ft. base 1½ ft. high, W. of cor. Pits impracticable.
43.15	Cross drain 5 lks. wide course E.
43.20	Cross old road bears E. and W.
50.00	Cross drain 5 lks. wide course E.
58.00	Ridge bears E. and W.
65.75	Cross drain 5 lks. wide course E.
74.00	ridge bears E. and W. and descend.
80.04	Set a malpais stone 18 x 10 x 6 ins. 12 ins. in the ground for cor. of secs. 25, 30, 31 and 36, marked with 1 notch on S. and 5 notches on N. edges; from which A paloverde 5 ins. diam., bears N. 40½° E. 138 lks. dist., marked T8NR5WS30BT A paloverde 5 ins. diam., bears S. 39½° E. 133 lks. dist., marked T8NR5WS31BT A paloverde 5 ins. diam., bears S. 18° W. 30 lks. dist., marked T8NR6WS36BT A paloverde 6 ins. diam., bears N. 11° W. 73 lks. dist., marked T8NR6WS25BT.
	Land, rolling hills.
	Soil, Sandy and stony; 3rd. and 4th. rate.
	No timber.
	Undergrowth, Mesquite, greasewood, paloverde.
	Land covered with dense undergrowth 80.04chs.

	N. 0° 01' E. bet. secs. 25 and 30
	Descend through dense brush.
7.00	Over nearly level land.

West boundary of Tp. 8 N. Rg. 5 W.

Chains.	
30.50	Cross wash 30 lks. wide course S. E.
40.02	Set a malpais stone 20 x 8 x 6 ins. 15 ins. in the ground for ¼ sec. cor., marked ¼ on W. face; and raise a mound of stone 2 ft. base 1½ ft. high, W. of cor. Pits impracticable.
41.00	Over broken land.
45.30	Cross wash 50 lks. wide course E.
53.00	Cross ridge bears E. and W.
55.00	Cross drain 5 lks. wide course E.
61.00	Ridge bears E. and W.
66.00	Cross drain 5 lks. wide course E.
74.00	Ridge bears E. and W.
80.04	Set a malpais stone 18 x 12 x 10 ins. 12 ins. in the ground for cor. of secs. 19, 24, 25 and 30, marked with 3 notches on S. and 4 notches on N. edges; and raise a mound of stone 2 ft. base 1½ ft. high, W. of cor. Pits impracticable.
	Land, level and broken.
	Soil, stony and gravelly; 2nd., and 4th. rate.
	No timber.
	Undergrowth, mesquite, greasewood and paloverde.
	Mountainous land and land covered with dense undergrowth 80.04 chs.
	August 20: At this cor. I set off 12° 29½ ' N. on the decl arc; and observe the sun on the meridian at noon, the resulting lat. is 34° 01' N.

	N0° 01' E. bet. secs. 19 and 24.
	Over broken land through dense brush.
7.75	Cross wash 15 lks. wide course N. E.
20.00	Ridge bears E. and W.
33.90	Cross wash 10 lks. wide course E.
37.00	Ridge bears N. W. and S. E.
40.02	Set a malpais stone 18 x 6 x 6 ins. 12 ins. in the ground for ¼ sec. cor., marked ¼ on W. face; and raise a mound of stone 2 ft. base 1½ ft. high, W. of cor. Pits impracticable.
41.50	Cross drain 5 lks. wide course E. and over slightly rolling land.
66.00	Cross drain 5 lks. wide course E.
79.85	Cross drain 5 lks. wide course E.
80.04	Set a malpais stone 20 x 10 x 6 ins. 15 ins. in the ground for cor. of secs. 13, 18, 19 and 24, marked with 3 notches on S. and N. edges; and raise a mound of stone 2 ft. base 1½ ft. high, W. of cor. Pits impracticable.
	Land, rolling and broken.
	Soil, gravelly and sandy; 2nd. and 3rd. rate.
	No timber.
	Undergrowth, mesquite greasewood and paloverde.
	Land covered with dense undergrowth 80.04 chs.
	August 20, 1909.

	August 21; At 7h. oom., a.m., l.m.t., I set off 34° 01½' N. on the lat. arc; 12° 15' N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 13, 18, 19 and 24.
	Thence I run
	N. 0° 01' E. bet. secs. 13 and 18
	Over broken land through dense brush.
2.00	Ridge bears E. and W.
10.00	Cross wash 10 lks. wide course E.
34.50	Cross old road bears E. and W.
35.00	Cross drain 5 lks. wide course E.
40.02	Set a malpais stone 20 x 14 x 8 ins. 15 ins. in the ground for ¼ sec. cor., marked ¼ on W. face; and raise

West boundary of Tp. 8 N. Rg. 5 W.

Chains.	
	a mound of stone 2 ft. base 1½ ft. hgih, W. of cor. Pits impracticable.
45.40	Cross wash 30 lks. wide course S. E.
65.00	Cross drain 5 lks. wide course S. W.
71.00	Ridge bears E. and W.
79.30	Cross drain 5 lks. wide course S. E.
80.04	Set a malpais stone 18 x 12 x 8 ins. 12 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; and raise a mound of stone 2 ft. base 1½ ft. high, W. of cor. Pits impracticable. Land, broken. Soil, gravelly; 3rd. rate. No timber. Undergrowth, Mesquite, greasewood and paloverde. Land covered with dense undergrowth, 80.04 chs.

N. 0° 01' E. bet. secs. 7 and 12
Over rolling land, through dense underbrush.

9.00	Cross telephone line bears N.N.W. and S.S.E.
13.00	Ridge bears E. and W.
40.02	Set a malpais stone 18 x 7 x 7 ins. 12 ins. in the ground for ¼ sec. cor., marked ¼ on W. face; and dig pits 18 x 18 x 12 ins. N. and S. of stone 3 ft. dist., and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor.
80.04	Set a malpais stone 18 x 6 x 6 ins. 12 ins. in the ground for cor. of secs. 1, 6, 7 and 12, marked with 5 notches on S. and 1 notch on N. edges; and raise a mound of stone 2 ft. base 1½ ft. high, W. of cor. Pits impracticable. Land, rolling. Soil, gravelly; 2nd. and 3rd. rate. No timber. Undergrowth mesquite, greasewood and catclaw. Land covered with dense undergrowth 80.04 chs. August 31; At this cor. I set off 12° 09½' N. on the decl. arc; and observe the sun on the meridian at noon, the resulting lat. is 34° 03½' N.

N. 0° 01' E. bet. secs. 1 and 6
Over nearly level land, through dense underbrush.

6.75	Cross drain 5 lks. wide course S. E.
40.00	Set a malpais stone 30 x 8 x 6 ins. 15 ins. in the ground for ¼ sec. cor., marked ¼ on W. face; dig pits 18 x 18 x 12 ins. N. and S. of stone 3 ft. dist., and raise a mound of earth 3½ ft. base 1½ ft. high, W. of cor., pits impracticable.
68.35	Cross telegraph line bears N.W. and S.E.
70.60	Cross S.F.P.& P. Ry. bears N. 14¼° 15' W. and S.14¼° 15' E.
72.34	Intersect 2nd. Standard Parallel North 1.87 chs. W. Of the standard cor. of Tps. 9 N. Rgs. 5 and 6 W. which is a malpais stone 10 x 8 x 8 ins. above ground firmly set and marked and witnessed as described by the surveyor general. Set a malpais stone 18 x 9 x 8 ins. 12 ins. in the ground for closing cor, of Tps. 8 N. rgs. 5 and 6 W., marked C C 8 N on S; 5 W on E; 6 W on W.; with 6 grooves on S., E., and W. faces; and raise a mound of stone 2 ft. base 1½ ft. high S. of cor. Pits impracticable. after diligent search I was unable to find any trace of old Tp. closing cor. Land, nearly level. Soil, gravelly; 2nd. and 3rd. rate. No timber. Underbrush, mesquite, catclaw, greasewood and paloverde.

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BOOK 2208

West boundary of Tp. 8 N. Rg. 5 W.

Chains.

August 21, 1909.

Second Standard Parallel North Through R. 5 W.

Chains.	
	At 7h. 00m., a.m.,l.m.t., I set off 34° 04½' N. On the lat arc; 11° 55' N. on the decl. arc; on August 22, and determine a meridian with the solar at the standard cor. of Tps. 9 N. Rgs. 5 and 6 W. and run thence East on a random line along the Second Standard Parallel North and find the old cors. poorly established and in many instances nearlt obliterated and not properly witnessed Therefore I retrace this line.
	August 22, 1909.
	August 23: At 7h. 00m., a.m.,l.m.t., I set off 34° 04½' N. on the lat. arc; 11° 34½' N. on the decl. arc; and determine a meridian with the solar at the standard cor. of Tps. 9 N. Rgs. 5 and 6 W.
	Thence I run
	East on S. bdy. of sec. 31.
	Over rolling land, through dense brush.
5.80	Cross wash 30 lks. wide course S.
7.45	Cross road bears N. and S.
40.02	Difference between measurements of 40.02 chs. by two sets of chainmen, is 4 lks.; position of middle point By 1st. set 40.04 chs. By 2nd. set 40.00 chs.; the mean of which is
40.02	Fall 12 lks. S. of remains of old cor. which I destroy and reestablish in the same place as follows; Set a malpais stone 18 x 8 x 6 ins. 12 ins. in the ground for standard ¼ sec. cor., marked SC¼ on N. face; and raise a mound of stone 2 ft. base 1½ ft. high, N. of cor. Pits impracticable. Course of this line is N. 89° 50' E. 40.02 chs.
	Thence from ¼ sec. cor. I run East
0.30	Old road bears N. and S.
1.00	Cross drain 5 lks. wide course S.E.
27.75	Cross wash 30 lks. wide course S.E.
32.00	Ridge N.W. and S.E.
38.00	Cross wash 40 lks. wide course S.E.
	Difference between measurements of 40.12 chs. bw two sets of chainmen, is 2 lks.; position of middle point By 1st. set 40.13 chs. by 2nd. set 40.11 chs.; the mean of which is
40.12	Fall 9 lks. N. of remains of old cor. which I destroy and reestablish in the same place as follows; Set a malpais stone 18 x 10 x 8 ins. 12 ins. in the ground for standard cor. of secs 31 and 32, marked S C on N., with 5 grooves on E. and 1 groove on W. faces; from which A mesquite 6 ins. diam., bears N. 16¾° E 130 lks. dist., marked SCT9NR5WS32BT. A mesquite 7 ins. diam., bears N. 49° W. 126 lks. dist., marked SCT9NR5WS31BT. Course of this half mile is S. 89° 52' E. 40.12 chs. Land, rolling. Soil, gravelly; 2nd. and 3rd. rate. No timber. Undergrowth, mesquite, greasewood and paloverde. Land covered with dense undergrowth 80.16 chs.
	East on S. bdy. of sec. 32.
	Over rolling land, through dense brush.
10.56	Cross old road bears N. and S.
11.00	Cross drain 8 lks. wide course S. E.
17.75	Ridge bears N. W. and S. E.
28.00	Cross wash 200 lks. wide course S.
32.00	Cross wash 20 lks. wide course S. E.

Second Standard Parallel North through R. 5 W.

Chains.	
40.00	Ridge bears N. and S.
	Difference between measurements of 40.27 chs. by two sets of chainmen is 6 lks.; position of middle point
	By 1st. set 40.30 chs.
	By 2nd. set 40.24 chs.; the mean of which is
40.27	Fall 16 lks. S. of remains of old cor. which I destroy and reestablish in the same place as follows;
	Set a malpais stone 24 x 14 x 10 ins. 18 ins. in the ground for standard ¼ sec. cor., marked SC¼ on N. face; from which
	A paloverde 4 ins. diam., bears N. 35° E. 3 lks. dist., marked SC¼S32BT.
	A paloverde 6 ins. diam., bears N. 47° W. 62 lks. dist., marked SC¼S32BT.
	Course of this line is N. 89° 46' E. 40.27 chs.
	Thence East from Standard ¼ sec. cor.
1.20	Cross drain 5 lks. wide course S.
8.00	Ridge bears N. and S.
12.00	Cross drain 6 lks. wide course S.
15.40	Ridge bears N. and S.
18.40	Cross drain 5 lks. wide course S.
25.00	Cross ridge bears N. and S.
25.25	Cross old road bears N. and S.
	Difference between measurements of 39.77 chs. by two sets of chainmen is 4 lks.; position of middle point
	By 1st. set 39.75 chs.
	By 2nd. set 39.79 chs.; the mean of which is
39,77	Fall 30 lks. N. of remains of old cor. which I destroy and reestablish in the same place as follows;
	Set a granite stone 18 x 12 x 7 ins. 12 ins. in the ground for standard cor. of secs. 32 and 33, marked S C on N. with 4 grooves on E. and 2 grooves on W. faces; from which
	A paloverde 4 ins. diam., bears N. 82° E. 101 lks. dist. marked SCT9NR5WS33BT,
	A paloverde 5 ins. diam., bears N. 48° W. 51 lks. dist., marked SCT9NR5WS32BT.
	Course of this half mile is S. 89° 34' E. 39.77 chs.
	August 23: At this cor. I set off 11° 29' N. on the decl. arc; and observe the sun on the meridian at noon, the resulting lat. is 34°04½' N.
	Land, rolling.
	Soil, gravelly; 2nd. and 3rd. rate.
	No timber.
	Land covered with dense undergrowth 80.04 chs.
	East on S. bdy. of sec. 33.
	Descending through dense brush.
3.40	Cross drain 5 lks. wide course S. E.
15.45	Cross wash 20 lks. wide course S. E. ascend.
20.00	Ridge bears N. and S. descend.
25.90	Cross wash 20 lks. wide course S. ascend.
31.30	Ridge N. and S. descend.
36.00	Cross wash 10 lks. wide course S. and over bottom land.
	Difference between measurements of 40.45 chs. by two sets of chainmen is 8 lks.; position of middle point
	By 1st. set 40.49 chs.
	By 2nd. set 40.41 chs.; the mean of which is
40.45	Fall 5 lks. S. of old cor. which I destroy and reestablish in the same place as follows;
	Set a malpais stone 28 x 10 x 8 ins. 21 ins. in the ground for standard ¼ sec. cor., marked SC¼ on N. face; and raise a mound of stone 2 ft. base 1½ ft. high, N. of cor. Pits impracticable.
	The course of this half mile is N. 89° 56' E. 40.45 chs.
	Thence East from Standard ¼ sec. cor.

Second Standard Parallel North through R. 5 W.

Chains.	
12.00	Cross wash 40 lks. wide course S. and ascend.
36.00	Ridge bears N. E. and S. W. and descend along S. E slope.
	Difference between measurements of 39.98 chs. by two sets of chainmen is 2 lks.; position of middle point
	By 1st. set 39.99 chs.
	BY 2nd. set 39.97 chs.; the mean of which is
39.98	Fall 17 lks. S. of remains of old cor. which I destroy and reestablish in the same place as follows;
	Set a granite stone 18 x 10 x 8 ins. 12 ins. in the ground for standard cor. of secs. 33 and 34, marked SC on N. with 3 grooves on E. and W. faces; from which
	A paloverde 4 ins. diam., bears N. 38¼° E. 23 lks. dist., marked SCT9MR5WS34BT.
	A paloverde 4 ins. diam., bears N 32° W. 116 lks. dist., marked SCT9NR5WS33BT.
	Course of this halfmile is N. 89° 45' E. 39.98.chs.
	Land, mountainous.
	Soil, stony 3rd. rate.
	No timber.
	Undergrowth, mesquite, greasewood and paloverde.
	Mountainous land and land covered with dense undergrowth 80.43 chs.
	August 23, 1909.

August 24; At 7h. 00m. a.m., l.m.t., I set off 34° 04½' N. on the lat. arc; 11°14½' N. on the decl. arc; and determine a meridian at the standard cor. of secs, 33 and 34,

Thence I run

East on S. bdy. of sec. 34.

Descend steep S. E. slope through dense underbrush.

13.00	Along N. side of wash Course S. W.
24.50	leave wasf cbears S. E. and ascend along S. slope.
30.00	Ridge bears S. E. and N. W. and descend along N. slpoe.
32.00	enter same wash course S.
37.30	Leave wash and ascend.
	Difference between measurements of 39.93 chs. by two sets of chainmen is 6 lks.; position of middle point
	By 1st. set 39.96 chs.
	By 2nd. set 39.90 chs.; the mean of which is
39.93	Fall 9 lks. S. of remains of old cor. which I destroy and reestablish in the same place as follows;
	Set a granite stone 20 x 12 x 10 ins. 15 ins. in the ground for standard ¼ sec. cor., marked SC¼ on N. face; and raise a mound of stone 2 ft. base 1½ ft. high, N. of cor. Pits impracticable.
	Course of this half mile is N. 89° 52' E. 39.93 chs.
	Thence East from ¼ sec. cor.
.50	Along in wash 50 lks. wide course S. W.
20.50	leave wash bears N. E. and ascend.
22.00	Along on top of ridge.
32.00	Descend.
33.70	Cross wash 30 lks. wide course N. W.
	Difference between measurements of 39.90 chs. by two sets of chainmen is 8 lks.; position of middle point.
	By 1st. set 39.94 chs.
	By 2nd. set 39.86 chs.; the mean of which is
39.90	Fall 23 lks. S. of remains of old cor. which I destroy and reestablish in the same place as follows;
	Set a malpais stone 18 x 10 x 8 ins. 12 ins. in the ground for standard cor. of secs. 34, and 35, markedSC on N. with 2 grooves on E. and 4 grooves on W. faces; and raise a mound of stone 2 ft. base 1½ ft. high, N. of cor. Pits impracticable.

Second Standard Parallel North through R. 5 W.

Chains	
	Course of this half mile is N.89° 40' E. 39.90.
	Land, mountainous.
	Soil, gravelly and stony; 2nd. and 3rd. rate.
	No timber.
	Undergrowth, mesquite, greasewood and paloverde.
	Mountainous land and land covered with dense undergrowth
	79.83 chs.
	East on S. bdy. of sec. 35.
	Ascending through dense brush.
25.00	Ridge bears N. E. and S. W. descend along S.E. slope.
	Difference between measurements of 39.90 chs. by two sets of chainmen is 4 lks.; position of middle point
	By 1st. set. 39.92 chs.
	By 2nd set 39.88 chs.; the mean od which is
39.90	Fall 14 lks. N. of remains of old cor. which I destroy and reestablish in the same place as follows;
	Set a malpais stone 18 x 12 x 8 ins. 12 ins. in the ground for standard ¼ sec. cor., marked S C ¼ on N. face from which
	A paloverde 6 ins. diam., bears N. 21° E. 27 lks. dist., marked SC¼S35BT
	A paloverde 6 ins. diam., bears N. 69° W. 111 lks. dist., marked SC¼S35BT
	Course of this half mile is S. 89° 48' E. 39.90 chs.
	Thence East from standard ¼ sec. cor.
1.25	cross drain 5 lks. wide course S. and ascend.
33.00	Ridge bears N. and S. and descend.
	Difference between measurements of 40.20 chs. by two sets of chainmen is 8 lks.; position of middle point
	By 1st. set 40.24 chs.
	By 2nd. set 40.16 chs.; the mean of which is
40.20	Fall 30 lks. S. of remains of old cor. which I destroy and reestablish in the same place as follows;
	Set a malpais stone 18 x 10 x 8 ins. 12 ins. in the ground for standard cor. of secs. 35 and 36, marked SC on N. with 1 groove on E. and 5 grooves on W. faces; from which
	A paloverde 5 ins. diam., bears N. 37½° E. 69 lks. dist., marked SCT9NR5WS36BT
	A paloverde 5 ins. diam., bears N. 45½° W. 90 lks. dist., marked SCT9NR5WS35BT.
	Course of this half mile is N. 89° 34' E. 40.20 chs.
	Land, mountainous.
	Soil, gravelly and stony; 2nd. and 3rd. rate.
	No timber.
	Undergrowth, mesquite, greasewood and paloverde.
	Mountainous land and land covered with dense undergrowth
	80.10 chs.
	August 24; At this cor. I set off 11° 09' N. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is 34° 04½' N.
	East on S. bdy. of sec. 36.
	Descend through dense brush.
.75	Cross drain 5 lks. wide course S. and ascend.
7.50	Ridge bears N. and S. and descend.
26.00	Ascend.
35.00	Ridge bears N. E. and S. W. and along on ridge.
38.00	Descend.
	Difference between measurements of 39.80 chs. by two sets of chainmen is 4 lks.; position of middle point
	By 1st. set 39.82 chs.
	By 2nd. set 39.78 chs.; the mean of which is
39.80	Fall 12 lks. S. of remains of old cor. which I destroy

Second Standard Parallel North through R. 5 W.

Chains.	
	and reestablish in the same place as follows; Set a malpais stone 18 x 10 x 7 ins. 12 ins. in the ground for standard ¼ sec. cor., marked SC¼ on N. face; from whcih
	A paloverde 5 ins. diam., bears N. 10¾° E. 52 lks. dist., marked SC¼S36BT
	A paloverde 5 ins. diam., bears N. 56° W. 80 lks. dist., marked SC¼S36BT.
	Course of this half mile is N. 89° 50' E. 39.80 chs. Thence East from standard ¼ sec. cor.
1.75	Cross drain 5 lks. wide course S. and ascend.
6.50	Ridge bears N. and S. and descend.
15.00	Drain 5 lks. wide course S. E. and ascend.
16.00	Ridge bears N. and S. and descend.
17.00	Drain 5 lks. wide course S. and ascend.
18.90	Ridge bears N. and S. and descend.
22.00	Cross drain 5 lks. wide coufse S. and ascend.
32.00	Ridge bears N. and S. and descend.
38.00	Cross drain 5 lks. wide course S. and ascend.
	Difference between measurements of 40.10 chs. by two sets of chainmne, is 2 lks.; position of middle point
	By 1st. set 40.11 chs.
	By 2nd. set 40.09 chs.; the mean of which is
40.10	Fall 9 lks. S. of remains of old cor., which I destroy and reestablish in the same place as follows; Set a malpais stone 18 x 12 x 12 ins. 12 ins. in the ground for standard cor. of Tps. 9 N. Rgs. 4 and 5 W. marked S C on N.; with 6 grooves on N., E., and W. faces; from which
	A paloverde 6 ins. dism., bears N. 20° E. 240 lks. dist. marked SCT9NR4WS31BT.
	A paloverde 6 ins. diam., bears N. 26½° W. 178 lls. dist., marked SCT9NR5WS36BT.
	Course of this half mile is N. 89° 52' E. 40.10 chs.
	Land, mountainous.
	Soil, gravelly and stony; 2nd. and 3rd. rate.
	No timber.
	Undergrowth, mesquite, greasewood and paloverde.

August 24 1909.

John D. Hesse
U.S. Dep. Surveyor

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

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LIST OF NAMES.

BOOK 2208

A list of the names of the individuals employed by John P. Hesse, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the ~~survey~~ of the S. and W. bdys. of Tp. 8 N. Rg. 5 W. and the 2nd Standard Parallel N. through Rg. 5 W.

showing the respective capacities in which they acted:

Fred Kesl, Chainman.
Fred W. Rodolf, Chainman.
C. Kaufman, ~~Chainman~~ ~~Moundman~~.
C. W. Wilson, ~~Chainman~~ ~~Moundman~~.
, ~~Axman~~.
, Axman.
P. W. Schwalm, Flagman.

FINAL OATH OF ASSISTANTS.

We ~~hereby certify~~ that we assisted John P. Hesse, United States Deputy Surveyor, in ~~surveying~~ all those parts or portions of the S. and W. bdys. of Tp. 8 N. Rg. 5 W. and the 2nd Standard Parallel N. through Rg. 5 W.

of the Gila and Salt River meridian, Territory of Arizona, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Arizona

Fred Kesl, Chainman.
Fred W. Rodolf, Chainman.
C. Kaufman, ~~Chainman~~ ~~Moundman~~.
C. W. Wilson, ~~Chainman~~ ~~Moundman~~.
, Axman.
, ~~Axman~~.
P. W. Schwalm, Flagman.

Subscribed and sworn to before me this 12th day of September, 1907

SEAL

John P. Hesse
U. S. Dep. Surveyor

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No notary available without loss of time and great expense

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BOOK 2208

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, 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. bdys. of Tp. 8 N. Rg. 5 W. and the 2nd Standard Parallel North through Rg. 5 W.

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.

John F. Hesse
United States Deputy Surveyor.

Subscribed by said John F. Hesse, and sworn to before me this ninth day of May 1910, ~~19~~

SEAL

Frank S. Ingalls
U.S. Surveyor General
for Arizona.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Ariz. June 17, 1910. ~~19~~

The foregoing field notes of the survey of the South and West Boundaries of Tp. 8 N. Rg. 5 W. and Second Standard Parallel North through Range 5 W. all of the Gila and Salt River Base and Meridian, Arizona

executed by John F. Hesse U.S. Deputy Surveyor under his contract No. 158, dated June 4, 1909, ~~19~~, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Frank S. Ingalls
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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