

Book L

771

BOOK 2285

2285

2285

FIELD NOTES

OF THE SURVEY OF THE

Trigonometry *Subdivision of T170 Pg 9E.*

2285

2285

Of the *TSPD* Meridian,

Albuquerque

AS SURVEYED BY

Hugh J. Duval, United States Deputy Surveyor,

Under his Contract No. *163*, dated *May 16*, 19*10*

Survey commenced *February 3*, 19*11*

Survey completed *February 7*, 19*11*

2285

2285

Jr

NAMES AND DUTIES OF ASSISTANTS.

See Book P

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1A

BOOK 2285

INDEX DIAGRAM.

Township 12 (D), Range 9 E

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Jr

PRELIMINARY OATHS OF ASSISTANTS.

BOOK 2285

See Book B

WE, _____ and _____

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 _____

_____, *Chainman.*

_____, *Chainman.*

Subscribed and sworn to before me this _____ }
day of _____, 19 _____ }



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 _____ }



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 _____ }



I, _____, 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 _____

_____, *Flagman.*

Subscribed and sworn to before me this _____ }
day of _____, 19 _____ }



- Chains. Instrument tested Jan. 27, at cor. of Tps. 12 & 13 S., Rs. 9 & 10 E. See Book "K"-Bdrs. of this Tp.
- In order to survey the 12 sections of agricultural and grazing land which I am instructed to do, as well as to include the applicant Jesus Casie in the land subdivided I proceed to establish an Auxiliary Base line to base my subdivisional work on.
- From the cor. of secs. 19, 24, 25 and 30, on the E. bdy. of the township, previously described, I run West on a true line bet. secs. 24 and 25.
- 40.00 Set a porphyry stone, 14x8x6 ins., 10 ins. in the ground, for the $\frac{1}{4}$ sec. cor., mkd. $\frac{1}{4}$ on N. face, and dig pits, 18x18x12 ins., E. and W. of cor., 3 ft. dist. and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
- 80.00 Set a porphyry stone, 16x9x9 ins., 10 ins. in the ground, for the cor. of secs. 23, 24, 25 and 26, mkd. with 1 notch on the E. and 2 notches on the S. edge, and dig pits, 18x18x12 ins., in each section, 5 $\frac{1}{2}$ ft. dist. and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
- Land rolling. Soil 2nd rate. Mesquite undergrowth.
-
- West on a true line bet. secs. 23 and 26.
- 40.00 Set a limestone, 14x9x5 ins., 10 ins. in the ground, for the $\frac{1}{4}$ sec. cor., mkd. $\frac{1}{4}$ on N. face, and dig pits, 18x18x12 ins., E. and W. of cor., 3 ft. dist. and raise a mound of earth 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
- 80.00 Set a porphyry stone, 16x7x7 ins., 10 ins. in the ground, for the cor. of secs. 22, 23, 26 and 27, mkd. with 2 notches on the E. and S. edges, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
- Land rolling. Soil 2nd rate. Mesquite underbrush.
-
- West on a true line bet. secs. 22 and 27.
- 40.00 Set a limestone, 15x8x7 ins., 10 ins. in the ground, for the $\frac{1}{4}$ sec. cor., mkd. $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
- 80.00 Set a porphyry stone, 14x9x5 ins., 10 ins. in the ground for the cor. of secs. 21, 22, 27 and 28, mkd. with 2 notches on the S. and 3 notches on the E. edge, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
- Land rolling. Soil 3rd rate. Mesquite underbrush.
- Feb. 3rd:- At this cor., I set off 16°39' S. on the decl. arc, and at 12h14m, p. m., 1. m. t., I obs. the sun on the mer., the resulting lat. is 32°22' N.
-
- West on a true line bet. secs. 21 and 28.
- 40.00 Set a limestone, 15x8x7 ins., 10 ins. in the ground for the $\frac{1}{4}$ sec. cor., mkd. $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
- 44.00 Road bears NW. and SE.

Chains.

80.00 Set a limestone, 15x9x5 ins., 10 ins. in the ground, for the cor. of secs. 20, 21, 28 and 29, mkd. with 2 notches on the S. and 4 notches on the E. edge, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.

Land rolling. Soil 3rd rate. Mesquite brush.

West on a true line bet. secs. 20 and 29.

9.00 Road bears NW. and SE.

40.00 Set a quartzite stone, 14x10x5 ins., 10 ins. in the ground, for the 1/4 sec. cor., mkd. 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.

63.40 Road bears NW. and SE.

80.00 Set a limestone, 15x10x5 ins., 10 ins. in the ground, for the cor. of secs. 19, 20, 29 and 30, mkd. with 2 notches on the S. and 5 notches on the E. edge, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.

Land rolling. Soil 3rd rate. Mesquite brush.

Feb. 3rd:- At 3h, p. m., 1. m. t., I set off 16°37' S. on the decl. arc, and 57°38' on the co-lat. arc, and determine a mer. with the solar at this cor.

West on a true line bet. secs. 19 and 30, the flag on the cor. of secs. 19, 24, 25 and 30, being visible.

22.60 Road bears NE. and SW.

34.25 Road bears NE# and SW.

40.00 Set a limestone, 15x8x6 ins., 10 ins. in the ground for the 1/4 sec. cor., mkd. 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.

78.69 The cor. of secs. 19, 24, 25 and 30, previously described.

Land rolling. Soil 3rd rate. Mesquite undergrowth.

Feb. 3rd, 1911.

From the cor. of secs. 23, 24, 25 and 26, previously described, I run N.0°1'W. bet. secs. 23 and 24.

40.00 Set a porphyry stone, 14x10x6 ins., 10 ins. in the ground, for the 1/4 sec. cor., mkd. 1/4 on W. face, and dig pits, 18x18x12 ins., N. and S. of cor., 3 ft. dist. and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.

71.27 Arroyo, 30 lks. wide, course NE.

80.00 Set a basalt stone, 16x8x6 ins., 10 ins. in the ground for the cor. of secs. 13, 14, 23 and 24, mkd. with 1 notch on the E. and 3 notches on the S. edge, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.

Land rolling. Soil 3rd rate. Mesquite and chapparel.

East on a random line bet. secs. 13 and 24.

Chains.	
40.00	Set a temp. $\frac{1}{4}$ sec. cor.
79.97	Intersect the E. bdy. of the township at a point 12
	lks. N. of the cor. of secs. 13, 18, 19 and 24, pre-
	viously described;
	Thence I run,
	N.89°55'W. on a true line bet. secs. 13 and
	24.
39.98 $\frac{1}{2}$	Set a porphyry stone, 16x12x6 ins., 10 ins. in the ground,
	for the $\frac{1}{4}$ sec. cor., mkd. $\frac{1}{4}$ on N. face, and dig pits,
	18x18x12 ins., E. and W. of cor., 3 f. dist. and raise
	a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
71.75	Arroyo, 30 lks. wide, course NE.
79.97	The cor. of secs. 13, 14, 23 and 24.
	Land rolling. Soil 3rd rate. Mesquite and chap-
	parel undergrowth.

	N.0°1'W. bet. secs. 13 and 14.
28.00	Arroyo, 30 lks. wide, course East.
36.45	Road bears E. and W.
40.00	Set a porphyry stone, 15x9x4 ins., 10 ins. in the ground
	for the $\frac{1}{4}$ sec. cor., mkd. $\frac{1}{4}$ on W. face, and raise a mound
	of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
78.75	Arroyo, 12 lks. wide, course NE.
80.00	Set a porphyry stone, 15x9x5 ins., 10 ins. in the ground
	for the cor. of secs. 11, 12, 13 and 14, mkd. with 1 notch
	on the E. and 4 notches on the S. edge, and raise a mound
	of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
	Land rolling. Soil 2nd rate. Mesquite and
	chapparel undergrowth.

	S.89°55'E. on a random line bet. secs. 12 and 13.
40.00	Set a temp. $\frac{1}{4}$ sec. cor.
79.92	Intersect the E. bdy. of the township at a point 8 lks.
	N. of the cor. of secs. 7, 12, 13 and 18, previously
	described, Thence I run
	N.89°52'W. on a true line bet. secs. 12 and 13.
	Ascending.
20.00	Top of little Butte, Descend.
39.96	Set a porphyry stone, 14x8x6 ins., 10 ins. in the ground,
	for the $\frac{1}{4}$ sec. cor., mkd. $\frac{1}{4}$ on N. face, and raise a mound
	of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
75.60	Arroyo, 10 lks. wide, course NE.
79.92	The cor. of secs. 11, 12, 13 and 14.
	Land rolling. Soil 3rd rate. Mesquite and
	chapparel undergrowth.

	Feb. 4th:- At this cor., I set off 1621 $\frac{1}{2}$ 'S. on
	the decl. arc, and at 12h14m, p. m., 1. m. t., I obs.
	the sun on the mer, the resulting lat. is 32°23'N.

Chains.

From the cor. of secs. 22, 23, 26 and 27, previously described, I run $N.0^{\circ}1'W.$ bet. secs. 22 and 23.

30.00 Arroyo, 30 lks. wide, course E.

40.00 Set a porphyry stone, $14 \times 8 \times 6$ ins., 10 ins. in the ground for the $\frac{1}{4}$ sec. cor., mkd. $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

80.00 Set a porphyry stone, $16 \times 9 \times 6$ ins., 10 ins. in the ground for the cor. of secs. 14, 15, 22 and 23, mkd. with 3 notches on the S. and 2 notches on the E. edge, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Land rolling. Soil 3rd rate. Mesquite and chapparel undergrowth.

East on a random line bet. secs. 14 and 23.

40.00 Set a temp. $\frac{1}{4}$ sec. cor.

80.09 Intersect the N. and S. line 4 lks. N. of the cor. of secs. 13, 14, 23 and 24.

Thence I run $N.89^{\circ}58'W.$ on a true line bet. secs. 14 and 23.

40.04 $\frac{1}{2}$ Set a porphyry stone, $16 \times 8 \times 6$ ins., 10 ins. in the ground for the $\frac{1}{4}$ sec. cor., mkd. $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

80.09 The cor. of secs. 14, 15, 22 and 23.

Land rolling. Soil 3rd rate. Mesquite and chapparel undergrowth.

$N.0^{\circ}1'W.$ bet. secs. 14 and 15.

36.50 Arroyo, 25 lks. wide, course E.

40.00 Set a porphyry stone $12 \times 9 \times 9$ ins., 8 ins. in the ground, for the $\frac{1}{4}$ sec. cor., mkd. $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

40.25 Road bears E. and W.

80.00 Set a porphyry stone, $18 \times 7 \times 6$ ins., 12 ins. in the ground, for the cor. of secs. 10, 11, 14 and 15, mkd. with 4 notches on S. and 2 notches on E. edges, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Land rolling. Soil 3rd rate. Mesquite and chapparel undergrowth.

$S.89^{\circ}58'E.$ on a random line bet. secs. 11 and 14.

40.00 Set a temp. $\frac{1}{4}$ sec. cor.

80.20 Intersect the N. and S. line at a point 11 lks. N. of the cor. of secs. 11, 12, 13 and 14.

Feb. 4th:) At 4h, p. m., 1. m. t., I set off $16^{\circ}17\frac{1}{2}'S.$ on the decl. arc, $57^{\circ}37'$ on the co-lat. arc, and determine a mer. with the solar at this cor., thence I run

$N.89^{\circ}53'W.$ on a true line bet. secs. 11 and 14.

Subdivisional Lines of T. 12 S., R. 9 E.

Chains.

- 5.57 Arroyo, 15 lks. wide, course NE.
 13.84 Same arroyo, 15 lks. wide, course SE.
 15.90 Same arroyo, 15 lks. wide, course NE.
 31.70 Foot of Butte, ascend.
 40.10 Set a basalt stone, 15x9x5 ins., 10 ins. in the ground, for the $\frac{1}{4}$ sec. cor., mkd. $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
 42.60 Top of Butte, descend.
 51.20 Foot of Butte. Thence over rolling ground.
 80.20 The cor. of secs. 10, 11, 14 and 15.
 Land rolling and hilly. Soil 3rd rate. Chapparel and mesquite underbrush.

Feb. 4th, 1911.

 Feb. 6th. From the cor. of secs. 20, 21, 27 & 28, previously described, I run, N. $0^{\circ}2'W.$ bet. secs. 21 and 22.

- 38.27 Arroyo, 20 lks. wide, course East.
 40.00 Set a porphyry stone, 15x9x7 ins., 10 ins. in the ground, for the $\frac{1}{4}$ sec. cor., mkd. $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
 49.00 Road bears E. and W.
 80.00 Set a porphyry stone, 16x12x12 ins., 10 ins. in the ground, for the cor. of secs. 15, 16, 21 and 22, mkd. 9E on NE. and 12S on SE. face, with 3 notches on the E. and S. edges, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
 Land rolling. Soil 3rd rate. Mesquite and chapparel undergrowth.

- East on a random line bet. secs. 15 and 22.
 40.00 Set a temp. $\frac{1}{4}$ sec. cor.
 80.00 Intersect the N. and S. line at a point 7 lks. S. of the cor. of secs. 14, 15, 22 and 23.
 Thence I run S. $89^{\circ}57'W.$ on a true line bet. secs. 15 and 22; Ascending.

- 1.50 Cliff, 40 feet high, bears N. and S.
 28.00 Top of ridge bears N. and S. Descend.
 40.00 Set a basalt stone, 13x8x7 ins., 8 ins. in the ground for the $\frac{1}{4}$ sec. cor., mkd. $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
 42.00 Foot of Butte or ridge bears N. and S.
 80.00 The cor. of secs. 15, 16, 21 and 22.
 Land hilly. Soil 3rd rate. Mesquite and chapparel underbrush.

 N. $0^{\circ}2'W.$ bet. secs. 15 and 16.

- 30.70 Road bears E. and W.
 40.00 Set a porphyry stone, 15x9x9 ins., 10 ins. in the ground

6. Subdivisional Lines of T. 12 S., R. 9 E.

Chains.

for the $\frac{1}{4}$ sec. cor., mkd. $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

44.00 Road bears NE. and SW.

52.70 Arroyo, 100 lks. wide, course NE.

80.00 Set a porphyry stone, 15x9x5 ins., 10 ins. in the ground for the cor. of secs. 9, 10, 15 and 16, mkd. with 3 notches on the E. and 4 notches on the S. edge, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Land rolling. Soil 3rd rate. Mesquite and chapparel undergrowth.

N.89°57'E. on a random line bet. secs. 10 and 15.

40.00 Set a temp. $\frac{1}{4}$ sec. cor.

80.06 Intersect the N. and S. line at a point 19 lks. N. of the cor. of secs. 10, 11, 14 and 15.

Thence I run N.89°55'W. on a true line bet. secs. 10 and 15.

24.70 Road bears NE. and SW.

24.62 Arroyo, 40 lks. wide, course SE.

38.46 Old road bears NW. and SE.

40.03 Set a porphyry stone, 15x9x5 ins., 10 ins. in the ground for the $\frac{1}{4}$ sec. cor., mkd. $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

72.92 Arroyo, 80 lks. wide, course SE.

80.06 The cor. of secs. 9, 10, 15 and 16.

Land rolling. Soil 3rd rate. Mesquite and chapparel undergrowth.

At the cor. of secs. 20, 21, 28 and 29, previously described: Feb. 6th; I set off $15^{\circ}45\frac{1}{2}'S.$ on the decl. arc, and at 12h14m, p. m., 1. m. t., I obs. the sun on the mer., the resulting lat. is $32^{\circ}22'N.$

Thence I run, N.0°2'W. bet. secs. 20 and 21.

14.73 Old road bears NE. and SW.

35.55 Arroyo, 20 lks. wide, course NE.

40.00 Set a porphyry stone, 18x11x5 ins., 12 ins. in the ground for the $\frac{1}{4}$ sec. cor., mkd. $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

72.18 Road bears E. and W.

80.00 Set a porphyry stone, 15x8x7 ins., 10 ins. in the ground, for the cor. of secs. 16, 17, 20 and 21, mkd. with 3 notches on the S. and 4 notches on the E. edge, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Land rolling. Soil 3rd rate. Mesquite and palo verde undergrowth.

East on a random line bet. secs. 16 and 21.

Chains.

- 40.00 Set a temp. $\frac{1}{4}$ sec. cor.
79.80 Intersect the cor of secs. 15, 16, 21 and 22.
Thence I run West on a true line bet. sec. 16 and 21.
- 39.90 Set a granite stone, 15x7x6 ins., 10 ins. in the ground, for the $\frac{1}{4}$ sec. cor., mkd. $\frac{1}{4}$ on N^o face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
- 56.40 Road bears NE. and SW.
- 79.80 The cor. of secs. 16, 17, 20 and 21.
Land rolling. Soil 2nd rate. Mesquite and cacti.

N.0°2'W. bet. secs. 16 and 17.
- .45 Arroyo, 40 lks. wide, course NE.
2.54 Old road bears NE. and SW.
33.56 Road bears E. and W^o
Set a
40.00 Porphyry stone, 18x6x5 ins., 12 ins. in the ground for the $\frac{1}{4}$ sec. cor., mkd. $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high W. of cor.
- 47.55 Enter Arroyo, course NE.
52.00 Leave arroyo, course NE.
Ascend.
- 58.00 Ridge bears E. and W.
- 80.00 Set a porphyry stone, 15x9x6 ins., 10 ins. in the ground for the cor. of secs. 8, 9, 16 and 17, mkd. with 4 notches on the S. and E. edges, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
Land rolling. Soil 2nd rate. Mesquite and Palo verde and cactus undergrowth.
Feb. 6th:- At 4h, p. m., 1. m. t., I set off 15°41' S. on the decl. arc, 57°37' on the co-lat. arc, and determine a mer. with the solar at this cor.

East on a random line bet. secs. 9 and 16.
- 40.00 Set a temp. $\frac{1}{4}$ sec. cor.
80.09 Intersect the N. and S. line 12 lks. S. of cor. of secs. 9, 10, 15 and 16.
Thence I run, S.89°55'W. on a true line bet. secs. 9 and 16.
- 13.73 Road bears N. and S.
- 40.04 Set a porphyry stone, 13x10x6 ins., 8 ins. in the ground, for the $\frac{1}{4}$ sec. cor., mkd. $\frac{1}{4}$ on N^o face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
- 80.09 The cor. of secs. 8, 9, 16 and 17.
Land rolling. Soil 3rd and 2nd rate. Mesquite and cactus undergrowth.

Feb. 6th, 1911.

Chains.	From the cor. to secs. 19, 20, 29 & 30 previously described, I run, N. 0° 3' W. bet. secs. 19 and 20.
26.30	Road bears NW. and SE.
31.73	Road bears NW. and SE.
40.00	Set a basalt stone, 15x6x5 ins., 10 ins. in the ground, for the $\frac{1}{4}$ sec. cor., mkd. $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
41.03	Road bears E. and W.
48.00	Arroyo, 50 lks. wide, course E.
58.00	Road bears E. and W.
64.60	Arroyo, 30 lks. wide, course E.
80.00	Set a porphyry stone, 14x10x5 ins., 10 ins. in the ground for the cor. of secs. 17, 18, 19 and 20, mkd. with 3 notches on the S. and 5 notches on the E. edge, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
	Land rolling. Soil 2nd rate. Mesquite, palo verde and cactus.

	East on a random line bet. secs. 17 and 20.
40.00	Set a temp. $\frac{1}{4}$ sec. cor.
79.88	Intersect N. and S. line at a point at a point 21 lks. N. of the cor. of secs. 16, 17, 20 and 21.
	Thence I run, N. 89° 51' W. on a true line bet. secs. 17 and 20.
3.88	Arroyo, 20 lks. wide, course NE.
9.88	Old road bears NE. and SW.
39.94	Set a porphyry stone, 14x8x6 ins., 10 ins. in the ground, for the $\frac{1}{4}$ sec. cor., mkd. $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
79.88	The cor. of secs. 17, 18, 19 and 20.
	Land rolling. Soil 2nd rate. Mesquite, palo verde and cactus undergrowth,

	West, on a random line bet. secs. 18 and 19.
40.00	Set a temp. $\frac{1}{4}$ sec. cor.
78.58	Intersect the W. bdy. of the township at a point, 10 lks. N. of cor. secs. 13, 18, 19 and 24, previously described.
	Thence I run
	N. 89° 56' E. on a true line bet. secs. 18 and 19.
2.00	Arroyo, 25 lks. wide, course SE.
38.58	Set a porphyry stone, 14x7x7 ins., 10 ins. in the ground, for the $\frac{1}{4}$ sec. cor., mkd. $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
42.68	Arroyo, 30 lks. wide, course SE.
78.58	The cor. of secs. 17, 18, 19 and 20.
	Land rolling. Soil 2nd rate. Mesquite, palo verde and cactus undergrowth.

	N. 0° 3' W. bet. secs. 17 and 18. A <u>scending</u>
31.00	Ridge bears E. and W.

Subdivisional Lines of T. 12 S., R. 9 E'

Chains.	Descend.
37.00	Arroyo, 20 lks. wide, course E.
39.83	Old road bears E. and W.
40.00	Set a porphry stone, 14x8x6 ins., 10 ins. in the ground, for the $\frac{1}{4}$ sec. cor., mkd. $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
52.08	Road bears E. and W.
54.46	Arroyo, 25 lks. wide, course E.
80.00	Porphry stone, 15x8x7 ins., 10 ins. in the ground, for the cor. of secs. 7, 8, 17 and 18, mkd. with 4 notches on the S. and 5 notches on the E. edge, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
	Land rolling. Soil 2nd rate. Mesquite, palo verde and cactus.

	Feb. 7th:- At this cor., I set off $15^{\circ}27'6''$ on the decl. arc, and at 12h14m, p. m., 1. m. t., I obs. the sun on the mer., the resulting lat. is $32^{\circ}23'$.
	-----XX-----
	S. $89^{\circ}51'E$. on a random line bet. secs. 8 and 17.
40.00	Set a temp. $\frac{1}{4}$ sec. cor.
80.16	Intersect the N. and S. line at a point 14 lks. E. of the cor. of secs. 8, 9, 16 and 17.
	Thence I run, N. $89^{\circ}57'W$. on a true line bet. secs. 8 and 17. Ascending.
36.16	Ridge bears N. and S. Descend.
40.08	Set a porphry stone, 14x8x6 ins., 10 ins. in the ground, for the $\frac{1}{4}$ sec. cor., mkd. $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
49.08	Ravine, 1 ch. wide, course N. Ascend.
74.16	Ridge bears NW. and SE. Descend.
77.66	Ravine, 1 ch wide, course S. Ascend.
80.16	The cor. of secs. 7, 8, 17 and 18. Land rolling. Soil 2nd rate. Mesquite, cactus and palo verde undergrowth.

	S. $89^{\circ}56'W$. on a random line bet. secs. 7 and 18.
40.00	Set a temp. $\frac{1}{4}$ sec. cor.
78.64	Intersect the W. bdy. of the township at a point 21 lks. S. of the cor. of secs. 7, 12, 13 and 18, previously described.
	Thence I run S. $89^{\circ}55'E$. on a true line bet. secs. 7 and 18.
38.64	Set a porphry stone, 14x12x6 ins., 10 ins. in the ground for the $\frac{1}{4}$ sec. cor., mkd. $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Descend.
42.64	Ravine, 1 ch. wide, course SE. Ascend.
53.64	Ridge bears N. and S. Descend.
66.64	Ravine course S., 3 chs. wide. Ascend.
75.00	Ridge bears N. and S. Descend.
78.64	The cor. of secs. 7, 8, 17 and 18. and rolling. Soil 2nd rate. Mesquite, palo verde and cactus undergrowth.

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Feb. 7th;- At this cor., 4 h., p. m., 1. m. a., I set off 15°23' S. on the decl. arc, 57°37' on the co-lat. arc and determine a mer. with the solar at this cor.

Feb. 7th, 1911.

GENERAL DESCRIPTION T. 12 S., R. 9 E.

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Soil is fertile in this township and the land surveyed is excellent for grazing purposes, grass being good.

Jesus Casio lives in section 16 about a 1/4 of a mile north of the 1/4 sec. cor. bet. secs. 16 and 21. He has an adobe house, corrals and pumping outfit valued at about \$1000.00.

The mountains appear to be mineralized in the southern part of the township.

Hugh F. Dillal

U. S. D. S.

In

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

See Book O.

BOOK 2285

A list of the names of the individuals employed by _____

_____, 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 _____

showing the respective capacities in which they acted:

- _____, *Chainman.*
- _____, *Chainman.*
- _____, *Moundman.*
- _____, *Moundman.*
- _____, *Axman.*
- _____, *Axman.*
- _____, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted _____

_____, United States Deputy Surveyor, in surveying all those parts or portions of the _____

_____ of the _____

_____ meridian, _____ of _____, 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 _____

- _____, *Chainman.*
- _____, *Chainman.*
- _____, *Moundman.*
- _____, *Moundman.*
- _____, *Axman.*
- _____, *Axman.*
- _____, *Flagman.*

Subscribed and sworn to before me this _____ }
day of _____, 19 _____ }



FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

BOOK 2285

See Book O

I, _____, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from _____, United States Surveyor General for _____, bearing date of the _____ day of _____, 19 _____, 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 _____

_____ of the _____ meridian, in the _____ of _____, 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.

United States Deputy Surveyor.

Subscribed by said _____, and sworn to before me }
this _____ day of _____, 19 _____ }



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Thomas A. King
July 13, 1912

The foregoing field notes of the survey of *the Fragmentary Subdivision of T. 17 R. 9 E. Sec. 5 and Salt River Base and Meridian, Arizona.*

executed by *Hugh J. Duval* U.S.D.S. under his contract No. *163*, dated *May 16*, 19*10*, 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.