

Partially accepted ^{copy of} Dep. letter to 7/12/07
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100 (1)

Book A. BOOK 2108

2108

FIELD NOTES

OF THE SURVEY OF

2108

2108

The West, East, North and a portion of the
South Bdy
of
Township No. 2 North, Range No. 15 East.
The full East and West boundaries of T. 3 N. R. 15 E.
and the
full North bdy. of T. 2 N. R. 14 E.

2108

Of the ~~High~~ ^{Public} ~~Land~~ ^{Range} ~~Base~~ ^{of} Meridian,

In the Territory of Arizona

AS SURVEYED BY

Estevan G. Dietrich, United States Deputy Surveyor,

Under his Contract No. 144, dated May 2, 1891

Survey commenced July 26, 1891

Completed August 3, 1891

2108

101 (1A)

BOOK 2108

Names and Duties of Assistants.

Charles M. Gurnick, chairman

Charles Dyer, chairman

H. B. Arnold, treasurer

Gas. Ward, organ

Walter Dyer, flagman

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(13)

BOOK 2108
T. 37, R. 15 E.

BOOK 2108
INDEX DIAGRAM.

T. 37,
R. 14 E.

Township _____, Range _____

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2						

T. 37,
R. 14 E.

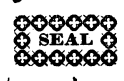
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BOOK 2108

Preliminary Oaths of Assistants.

WE, Charles M. McCormick and Charles Durkee
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 W. 1/2 and N. 1/2 and a fraction of the S. 1/4 of S. 27 N. R. 15 E.; sec. E. and W. T. 37 N. R. 15 E.; and sec. N. 1/2 T. 27 N. R. 14 E.
Charles M. McCormick, Chainman.
Charles Durkee, Chainman.

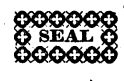
Subscribed and sworn to before me this 16th
day of July, 1906, 189



W. G. Power
Notary Public, Pima County, Arizona Territory.
My Commission Expires April 27th, 1907.

WE, W. K. Arnold 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 the W. 1/2 and N. 1/2 and a fraction of the S. 1/4 of S. 27 N. R. 15 E.; sec. E. and W. T. 37 N. R. 15 E.; and sec. N. 1/2 T. 27 N. R. 14 E.
W. K. Arnold, Moundman.
Moundman.

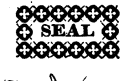
Subscribed and sworn to before me this 16th
day of July, 1906, 189



W. G. Power
Notary Public, Pima County, Arizona Territory.
My Commission Expires April 27th, 1907.

WE, Gas. Tweed 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 the W. 1/2 and N. 1/2 and a fraction of the S. 1/4 of S. 27 N. R. 15 E.; sec. E. and W. T. 37 N. R. 15 E.; and sec. N. 1/2 T. 27 N. R. 14 E.
Gas. Tweed, Axman.
Axman.

Subscribed and sworn to before me this 16th
day of July, 1906, 189



W. G. Power
Notary Public, Pima County, Arizona Territory.
My Commission Expires April 27th, 1907.

I, Walter Tafel, 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 W. 1/2 and N. 1/2 and a fraction of the S. 1/4 of S. 27 N. R. 15 E.; sec. E. and W. T. 37 N. R. 15 E.; and sec. N. 1/2 T. 27 N. R. 14 E.
Walter Tafel, Flagman.

Subscribed and sworn to before me this 16th
day of July, 1906, 189



W. G. Power
Notary Public, Pima County, Arizona Territory.
My Commission Expires April 27th, 1907.

chains

Survey commenced July 24, 1906, and executed with a Queen Light Mountain Transit, with Burts' Solar Attachment No. 4607. 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 arc.

The instrument was examined, tested on the true meridian at Phoenix, found correct, and was approved by the Surveyor General for Arizona, July 17, 1906.

I examined the adjustments of the transit, and corrected the level and collimation errors, 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 observation on Polaris, I proceed as follows:

At the $\frac{1}{2}$ sec. cor. of Secs. 32 on the South bdy. of T. 2 N., R. 15 E., latitude $33^{\circ} 27' 53''$ N., longitude $110^{\circ} 49' 11''$ W.; I set off $33^{\circ} 28' 00''$ N. on the lat. arc, $19^{\circ} 56' \frac{1}{2}$ N. on the decl. arc; and at 3 h 30 m, 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 the $\frac{1}{2}$ sec. cor.

At 11 h 22 m, p.m., l.m.t., I observe Polaris at eastern elongation, in accordance with the 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.

July 24, 1906.

July 25, 1906. At 6 a.m., l.m.t., I lay off the azimuth of Polaris, $1^{\circ} 26'$ to the west, and mark the meridian thus determined, by cutting a small groove in the stone set July 24, on which the meridian falls 0.4 ins. east of the mark determined by the solar.

At 7 h. a.m., l.m.t., I set off $33^{\circ} 28'$ N. on the lat. arc; $19^{\circ} 49' \frac{1}{2}$ N. on the decl. arc and mark a point in the meridian determined with the solar, by a cross on the stone already set, 5 chs. N. of my station; this mark falls 0.2 ins. east of the meridian established by the Polaris observation.

The solar apparatus, by p.m., and a.m., observations, defined positions for meridians, respectively about $0' 21''$ west and $0' 10''$ east of the meridian established by the Polaris observations; therefore, I conclude that the adjustments of the instruments are satisfactory.

The magnetic bearing of the true meridian at 8 h 30 m a.m., is N. $13^{\circ} 30'$ W., the angle thus determined gives the magnetic dec. $13^{\circ} 30'$ E.

South Boundary Tp. 2 North, Range 15 East.

chains

From the 1/4 sec. cor. of secs. 5 and 32, which is a quartz stone, 8 X 6 X 6 ins. above ground, marked 1/4 on N. face, I reestablish cor. in same place as follows: I redig pits east and west of stone, from which a cottonwood, 24 ins. diam., brs. N. 17 1/2 W., 39 lks. dist, which I remark 1/4 S 32 B T.

Thence I run, West, bet. secs. 5 and 32, on the S. bdy. of tp. Over level land, through dense mesquite brush. Leave Pinal Creek bottom, course N. and S.; ascend.

7.30
10.00
12.85

Spur, extends N.N.E.; descend. Draw, 2.00 chs. wide, course N.N.E.; leave dense brush, ascend.

24.40
29.50
39.50
40.00

Spur, 500 ft. above 1/4 sec. cor.; extends N.N.E.; descend. Deep rocky wash, 35 lks. wide, course N.E.; ascend. Top of S. slope of spur, extends E., descend. Set a trachyte stone, 18 X 8 X 5 ins., in mound of stone, for cor. of secs. 5, 6, 31 and 32, marked with 5 notches on the East and 1 notch on the west edges, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable.

Land, mountainous and level. Soil, sandy, gravelly, stony and rocky, 3rd and 4th rate. Timber scattering mesquite; undergrowth, mesquite, mesquite, oak, palo christi, johava, Spanish bayonet and cacti.

Mountainous land, or land covered with dense undergrowth, exceptionally difficult to survey, 40.00 chs.

West, bet. secs. 6 and 31. Over mountainous land, descending.

6.30
8.00
14.30

Enter dense brush, brs. N.N.W. and S.S.E. Enter dry wash, course E.S.E. Leave wash, course E.

31.00
37.30

Spur, extends S.; leave dense brush, descend. Dry wash, 10 lks. wide, course S., beg in ascent along S. slope of ridge, extending N.W. and S.E., over trachyte boulders.

38.70
40.00

Top of rocky point; descend. Point for 1/4 sec. cor. falls on boulder, 10 X 6 X 4 ft. above ground, which I mark with a cross for exact 1/4 sec. cor. point and 1/4 N. of cross, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor. Pits impracticable.

44.30
50.00
54.00
57.00
64.00

Small wash, course S.; leave boulders, ascend. Spur, extends S., enter dense brush, descend. Dry wash, 15 lks. wide, course S., ascend. Top of N. slope of ridge, brs. E. and W., descend. Dry wash, 15 lks. wide, course N.E.; ascend.

71.00
79.50

Spur, extends S., descend. Dry wash, 15 lks. wide, course S.E. Set a quartzite stone, 16 X 14 X 12 ins. in mound of stone, for the cor. of secs. 1, 6, 31 and 36, Tps. 13 & 14 N., R. 14 and 15 East, marked with 6 notches on each edge, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, S. of cor. Pits impracticable.

Land, mountainous. Soil, gravelly, stony and rocky; 3rd and 4th rate. Timber, a few mesquite and timber; undergrowth, mesquite, mesquite, palo christi, palo verde, Spanish bayonet and cactus.

Mountainous land, or land covered with dense undergrowth, exceptionally difficult to survey, 79.52 chs.

West Boundary Tp. 2 N.; R 15 E.

chains	July 25: At noon, I set off $19^{\circ} 45'$ N. on the decl. arc and observe the sun on the meridian; the resulting lat. is $35^{\circ} 28'$ N.
.40	North, bet. secs. 31 and 36 on W. bdy. of tp. 2 N., R. 15 E.
20.00	Dry wash, 15 lks. wide, course S.E.; ascend.
35.15	Ridge, extends E. and W.; descend through dense oak brush.
40.00	Gulch, 15 lks. wide, course N.E.; leave dense brush, ascend.
41.00	Set a calcareous stone, 18 X 12 X 10 ins., in mound of stone, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
48.70	Spur, extends E., descend.
53.00	Gulch, 10 lks. wide, course N.E.; ascend.
72.80	Spur, extends E.; reenter dense brush; descend.
80.00	Same gulch, 20 lks. wide, course N.N.W.; thence along east side.
	Set a quartzite stone, 18 X 6 X 6 ins., 12 ins. in the ground, for cor. of secs. 25, 30 31 and 36, marked with 5 notches on the N. and 1 notch on the S. edges, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
	Land, mountainous.
	Soil, gravelly, stony and rocky; 3rd and 4th rate.
	Timber, 4 few mesquite and cedar; undergrowth, oak, mesquite, tesotilla, jehava, laurel, Spanish bayonet and cactus.
	Mountainous land, or land covered with dense undergrowth exceptionally difficult to survey, 80.00 chs.
	July 25: 1906.

	July 26, 1906. At 7 a.m., l.m.t., I set off $19^{\circ} 35'$ N on the decl. arc and $35^{\circ} 29'$ N. on the lat. arc and determine a true meridian with the solar at the cor. of secs. 25, 30, 31 and 36, on the W. bdy. of tp.
	Thence I run,
	North, bet. secs. 25 and 30.
	Over mountainous land, along west slope of ridge.
14.60	Enter Murphy's wash, course E.
17.90	Road, brs. E. and W.
21.00	Leave wash and dense brush, begin steep ascent.
34.00	Top of E. slope of ridge, brs. E. and W.; descend.
40.00	Set a quartzite stone, 18 X 12 X 6 ins., in mound of stone, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
70.00	Enter dense brush, brs. N.W. and S.E.
80.00	Set a quartzite stone, 18 X 6 X 6 ins., 12 ins. in the ground, for cor. of secs. 19, 24, 25 and 30, marked with 4 notches on the N. and 2 notches on the S. edges, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
	Land, mountainous.
	Soil, gravelly and stony; 3rd and 4th rate.
	Timber, scattering mesquite; undergrowth, oak, mesquite, tesotilla, palo verde, jehava, Spanish bayonet and cactus.
	Mountainous land, or land covered with dense undergrowth, exceptionally difficult to survey, 80.00 chs.

	North, bet. secs. 19 and 24.
3.70	Along east side of gulch, course N., through dense brush. Ascend.
11.50	Top of W. slope rocky hill; descend.
16.20	Deep gulch, 30 lks. wide, course N.E., leave dense brush, ascend.
23.60	Gulch, 30 lks. wide, course S.E. ASCEND

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West Boundary Tp. 2 North, R. 15 East.

chains
40.00 Set a quartz stone, 18 X 6 X 6, 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.

47.10 Ridge, extends E. and W.; descend through dense brush.
78.00 Enter gulch, course N.E.
80.00 Set a quartz stone, 18 X 9 X 9 ins., 12 ins. in the ground, for cor. of secs. 13, 18 19 and 24, marked with 5 notches on N. and S. edges, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.

Land, mountainous.
Soil, gravelly, stony and rocky; 3rd and 4th rate.
No timber; undergrowth, oak, mesquite, tesotilla, palo christi, johava, laurel, Spanish bayonet and cactus.
Mountainous, or land covered with dense undergrowth, exceptionally difficult to survey, 80.00 chs.

July 26: At noon, I set off 19° 32' N. the decl. arc and observe the sun on the meridian, the resulting lat. is 33° 30' N.
North, bet. secs. 13 and 28.
In gulch.
Ascend.
1.70 Spur, extends E., descend.
18.00 Dry wash, 35 lks. wide, course E.; enter dense oak brush, ascend.
28.00 High ridge, extends E. and W., descend.
33.30 Set a quartz stone, 18 X 8 X 5 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
63.70 ~~Under 200 yds wide, No. 20 SE, thread in gulch, base of boundary W.; leave oak brush and ascend.~~
64.78 telephone line, brs. E. and W.
73.00 Top of ridge, extends N. and S., thence along top over boulders.
80.00 Point for cor. of secs. 7, 12, 13 and 18 falls on trachyte boulder, 6 X 3 X 2 ft. above ground, which I mark with a cross for exact point for cor. of secs. and cut 2 grooves N. and 4 grooves S. of cross, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.

Land, mountainous.
Soil, gravelly, stony and rocky; 3rd and 4th rate.
Timber, scattering cedar and mesquite; undergrowth, palo verde, oak, johava, mesquite, tesotilla, Spanish bayonet and cactus.
Mountainous land, or land covered with dense undergrowth, exceptionally difficult to survey, 80.00 chs.

North, bet. secs. 7 and 12.
Along top of ridge, over trachyte boulders.
4.40 Leave boulders and descend through dense palo christi brush.
11.37 Wire fence, extends N.E. and S.W.
18.70 Deep gulch, 50 lks. wide, course E., leave palo christi and ascend steep slope.
27.05 Spur, extends E.; descend.
32.50 Dry wash, 20 lks. wide, course E., descend.
40.00 Spur, extends E.
Set a trachyte stone, 18 X 12 X 6 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on E. face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
Enter dense brush; begin steep descent.

In the right margin! Supplemental notes have attached

chains
56.00
59.00
75.00
80.00

Foot of steep descent, extends E. and W.; thence over gently rolling land.
Old tunnels, surrounded by stone wall, hrs. East, 9 chs. dist.
Draw, 2.00 chs. wide, course E.
Set a trachyte stone, 18 X 8 X 6 ins., 12 ins. in the ground, for cor. of secs. 1, 6, 7 and 12, marked with 1 notch on the N. and 5 notches on the S. edges, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.
Pits impracticable.
Land, mountainous.
Soil, gravelly, stony and rocky, 3rd and 4th rate.
Timber, scattering cedar and mesquite; undergrowth, mesquite, tesotilla, oak, johava, pale christi, pale verde, Giant cactus.
Mountainous, or land covered with dense undergrowth, exceptionally difficult to survey, 80.00 chs.

July 26, 1906.

July 27: At 7 a.m., l.m.t., I set off 19° 22' N. on the decl. arc and 33° 32' N. on the lat. arc, and determine a true meridian with the solar at the cor. of secs. 1, 6, 7 and 12.

Thence I run, North, bet. secs. 1 and 6.

Over gently rolling land, through dense mesquite and tesotilla brush.

11.70 Old ruins br. West 80 lks. dist.
12.38 Wire fence hrs. N.W. and S.E.
15.45 Leave dense brush, enter Pinal Creek bottom, course N.W.
16.00 Enter cultivated ground.
27.65 Irrigation ditch, 50 lks. wide, 10 ins. deep, course W.
27.85 Wire fence hrs. W. and E., leave field; enter heavy willow and cottonwood timber and dense undergrowth.
30.00 Set a porphyry stone, 18 X 12 X 9 ins., 12 ins. in the ground, for witness cor. to meander cor. of fracl. secs. 1 and 6, marked M C on N. face, and 6 grooves on E. face, from which

A cottonwood tree, 14 ins. diam., hrs. N. 47 1/2° E., 117 lks. dist., marked T 2 N R 15 E S 6 W O M O B T,
A cottonwood tree, 8 ins. diam., hrs. N. 42° W., 135 lks. dist., marked T 2 N R 14 E S 1 W O M O B T.

34.00 To left bank of Pinal Creek. Cor. point on ground subject to overflow; leave heavy timber.
38.00 Permanent running water, 30 lks. wide, 10 ins. deep, course N.W.
39.20 To right bank of Pinal Creek.

Set a trachyte stone, 18 X 8 X 6 ins., 12 ins. in the ground, for meander cor. of banks secs. 1 and 6, marked with 1 1/2 on S. face, and 6 grooves on E. face, from which
A willow tree, 12 ins. diam., hrs. S. 59 1/2° E., 23 lks. dist., marked T 2 N R 15 E S 6 W O M O B T,
An elder tree, 7 ins. diam., hrs. N. 30 1/2° W., 13 lks. dist., marked T 2 N R 14 E S 1 M O B T.

39.55 Dry ditch, 8 lks. wide, course N.W.
40.00 Set a trachyte stone, 18 X 10 X 8 ins., 12 ins. in the ground, for 1/2 sec. cor., marked 1/2 on N. face, from which
A mesquite tree, 7 ins. diam., hrs. S. 15 1/2° E., 52 lks. dist., marked 1/2 S S B T,
A mesquite tree, 8 ins. diam., hrs. S. 50 1/2° W., 20 lks. dist., marked 1/2 S 1 O B T.

45.82 Road to Chinese gardens, course E. and W.; leave dense brush.
49.30 Stable, hrs. E., 30 lks. dist.
50.60 Colin D. Ferguson's ranch house hrs. W. 140 lks. dist.
52.81 Wire fence, hrs. N.W. and S.E.

Do this mile see page 1
Opp. note less attached

chains	
52.00	Head from Globe to Reesevelt brs. N.W. and S.E. Leave creek bottom, thence over gently rolling land, through dense brush.
72.80	Dry wash, 20 lks. wide, course S.W.
80.00	Set a trachyte stone, 24 X 18 X 14 ins., in mound of stone, for cor. of tps. 20 and 3 N., Rs. 14 and 15 East, marked with 6 notches on each edge, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, S. of cor. Pits impracticable. Land, gently rolling and level. Soil, alluvial, sandy loam, sandy, gravelly and stony, 1st, 2nd, 3rd and 4th rate. Timber, willow, cottonwood, mesquite and elder. Undergrowth, mesquite, tesotilla, willow, hacceta, arrow weeds and cactus. Land heavily timbered or covered with dense undergrowth, exceptionally difficult to survey, 60.20 chs.
----- July 27, 1906 -----	
	July 27: At East Boundary of Tp. 2 N., R. 15 E. Sec. 31 and 36, set a true meridian with the solar at the cor. of secs. 31 and 36. Thence North, bet. secs. 31 and 36. over mountainous land, ascending.
3.00	Top of East slope of ridge, brs. N.W. and S.E.
5.00	Descend.
19.30	Dry wash, 20 lks. wide, course E.S.E.; ascend.
31.00	Spur, extends S.E.; descend.
40.00	Set a syenite stone, 16 X 12 X 10 ins., 11 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable.
46.80	Dry wash, 30 lks. wide, course E., thence S.S.E.; ascend.
80.00	Point for cor. of secs. 25, 30, 31 and 36 falls on a granite stone in place, 36 X 18 X 8 ins., above ground, which I mark with a cross (X) for exact cor. point and 5 grooves N. of cross and 1 groove S. of cross, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable. Land, mountainous. Soil, gravelly, stony and rocky; 3rd and 4th rate. No timber; undergrowth, mesquite, tesotilla, oak, Spanish bayonet and cactus. Mountainous land, covered with dense undergrowth, exceptionally difficult to survey, 80.00 chs. July 27, 1906.
----- July 28, 1906 -----	
	July 28: At 7 a.m., I set off 19° 9' N. on the decl. arc and 53° 29' N. on the lat. arc, and determine a true meridian with the solar at the cor. of secs. 25, 30, 31 and 36. Thence I run, North bet. secs. 25 and 30. over mountainous land, ascending.
10.00	Ridge, extends N.E., descend.
36.30	Wash, 25 lks. wide, course W.S.W.; ascend.
40.00	Set a silicate stone, 18 X 8 X 6 ins., in mound of stone, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable.
46.35	Ridge, extends E. and W.; descend.
64.70	Wash, 25 lks. wide, course W., begin steep ascent over stony ground.
80.00	Set a quartzite stone, 18 X 9 X 6 ins., in mound of stone, for the cor. of secs. 19, 24, 25 and 30, marked with 2 notches on S. and 4 notches on N. edges, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable. Land, mountainous. Soil, gravelly, stony and rocky; 3rd and 4th rate. Timber, a few, cedar and oak; undergrowth, mesquite,

chains tesetilla, pale christi, mesquial, Spanish bayonet and cactus. Mountainous land, or land covered with dense undergrowth, exceptionally difficult to survey, 80.00 chs.

North, bet. secs. 19 and 24.
 Over mountainous land, ascending.

9.00 Ridge, extends N.W. and S.E.; thence along top of ridge.
 22.30 Begin steep descent over rocks.
 26.65 Open cut, 10 lks. wide, course E.
 40.00 Set a quartzite stone, 21 X 7 X 7 ins., in mound of stone, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, from which
 An oak, 9 ins. diam., brs. N. 44° E., 66 lks. dist., marked $\frac{1}{4}$ S 19 B.T.
 An oak tree, 13 ins. diam., brs. N. 27 $\frac{1}{2}$ ° W., 191 lks. dist., marked $\frac{1}{4}$ S 26 B.T.

59.00 Gulch, 600 ft. below top of ridge, 30 lks. wide, course W N W; ascend.
 67.70 Spur, extends S.W.; descend through dense pale christi brush.
 80.00 Set a quartzite stone, 18 X 6 X 6, 12 ins. in the ground, for cor. of secs. 15, 18, 19 and 24, marked with 3 groove notches on the N. and S. edges, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.

Land, mountainous.
 Soil, stony and rocky; 4th rate.
 Timber, scattering oak and cedar; undergrowth, mesquite, tesetilla, oak, pale christi, mesquial, Spanish bayonet and cactus.
 Mountainous land, or land covered with dense undergrowth, exceptionally difficult to survey, 80.00 chs.

July 28, At noon, I set off 19° 5' N. on the decl. arc and observe the sun on the meridian; the resulting lat. is 53° 30' N.
 North bet. secs. 13 and 18.
 Over mountainous land, descending through dense pale christi brush.

4.40 Reach brs. N.E. and S.W.
 8.00 Rugged wash, 80 lks. wide, course S.W.; leave dense brush, ascend.
 17.70 Ridge, extends S.W. and N.E.; descend.
 38.80 Gulch, 80 lks. wide, course S.S.W.; ascend steep slope.
 40.00 Set a granitic porphyry stone, 21 X 6 X 6 ins., in mound of stone, for $\frac{1}{4}$ sec. cor., marked with 3 groove notches and raisera mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.

60.00 Ridge, 400 ft. above $\frac{1}{4}$ sec. cor., extends E. and W.
 64.60 Old stone breastworks on both sides of line.
 65.00 Begin steep descent, through dense oak and pale christi brush.
 72.00 Foot of steep descent, old road brs. E. and W.
 79.20 Gulch, 20 lks. wide, course W.N.W.
 80.00 Set a quartz stone, 18 X 8 X 6 ins., 12 ins. in the ground, for cor. of secs. 7, 12, 13 and 18, marked with 2 notches on the N. and 4 notches on the S. edges, and raise a mound of stone, 2 ft. base, 2 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.

Land, mountainous.
 Soil, gravelly, stony and rocky; 3rd and 4th rate.
 Timber, scattering pine; undergrowth, oak, mesquite, laurel, pale christi, tesetilla, Spanish bayonet and cactus.
 Mountainous land, covered with dense undergrowth, exceptionally difficult to survey, 80.00 chs.

July 28, 1906.

chains

July 29: At 7 a.m., 1.m.t., I set off 18° 55' N. on the decl. arc and 33° 31' N. on the lat. arc and determine a true meridian with the solar at the cor. of secs. 7, 12, 13 and 18.

Thence I run, North, bet. secs. 7 and 12.

Over broken ground, through scattering pinon and cedar timber and dense oak and palo christi brush.

20.00 Gulch, 25 lks. wide, course S.W.; thence W.; leave pinon timber and ascend.

31.00 Ridge, extends E. and W.; descend.

40.00 Set a porphyry stone, 18 X 8 X 6 ins., 12 ins. in the ground, for the $\frac{1}{2}$ sec. cor., marked $\frac{1}{2}$ on W. face, from which

A cedar tree, 6 ins. diam., brs. N. 58° 25' W., 210 lks. dist., marked $\frac{1}{2}$ S 12 B T.

No other tree within limits.

Raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.

40.40 Gulch, 15 lks. wide, course S.W. Enter gently rolling land.

56.00 Gulch, 60 lks. wide, course W., thence S.W.; ascend.

61.00 Ridge, extends E. and W.; descend.

70.00 Feet of descent, brs. E. and W.; thence ascend gradually.

80.00 Point for cor. of secs. 1, 6, 7 and 12 falls in gulch, 15 lks. wide, course S.S.W.

81.50 Set a trachyte stone, 18 X 12 X 10 ins., 12 ins. in the ground for witness corner to cor. of secs. 1, 6, 7 and 12, marked with 1 notch on the N. and 3 notches on the S. edge, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.

Land, mountainous, gently rolling and broken.

Soil, gravelly, stony and rocky; 3rd and 4th rate.

Timber, scattering pinon, mesquite and cedar; undergrowth, mesquite, tesotilla, oak, laurel, Spanish bayonet and cactus.

Mountainous land, covered with dense undergrowth, exceptionally difficult to survey, 81.50 chs.

North bet. secs. 1 and 6.

Over mountainous land, ascending through dense brush.

1.50 Witness cor. to secs. 1, 6, 7, and 12.

19.30 Old road, brs. N.W. and S.E.; ascend along west slope of mountain, over trachyte boulders.

40.00 Set a trachyte stone, 18 X 10 X 8 ins., 12 ins. in the ground, for $\frac{1}{2}$ sec. cor., marked $\frac{1}{2}$ on W. face and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.

51.20 Spur, extends W.; leave boulders; descend.

68.70 Gulch, 30 lks. wide, course W.; ascend.

76.00 Spur, extends W.; descend.

80.00 Set a trachyte stone, 21 X 12 X 10 ins., 12 ins. in the ground, for cor. of tps 2 and 3 N., 15 and 16 E., marked with 6 notches on each edge, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, S. of cor. Pits impracticable.

Land, mountainous.

Soil, gravelly, stony and rocky; 3rd and 4th rate.

Timber, scattering cedar; undergrowth, oak, mesquite, laurel, mesquite, tesotilla, Spanish bayonet and cactus.

Mountainous land, covered with dense undergrowth, exceptionally difficult to survey, 80.00 chs.

North Boundary of Tp. 2. North, R. 15 East.

For this mile see page 2
Pep. into, has attached

chains! At the cor. of Tp. 2 & 3 N., Rs. 15 & 16 E.,
At noon, I set off 18° 41' N. on the decl. arc and observe
the sun on the meridian, the resulting lat. is 33° 33' N.
West, on a random line along the N. bdy. of Tp. 2. N.,
R. 15 E., setting temp. 1/2 sec. & sec. cor. at intervals of 40 chs.
and at 480.12 chs. intersect the West bdy, 88 lks. N.
of the cor. of tps. 2 and 3 N., Rs. 14 and 15 E., as
heretofore described.
The falling answers to a correction of 0° 5' or 12
lks. S. per mile, counting from the N.W. cor. of the tp.,
Therefore I run,
N. 89° 55' E., on a true line, bet. secs. 6 and 31.
Ascending over rolling land, through dense brush.
18.00 Dry wash, 100 lks. wide, course S.W.
40.12 Set a porphyry stone, 18 X 8 X 8 ins., 12 ins. in the
ground, for 1/2 sec. cor., marked 1/2 on N. face, and
raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N.
of cor. Pits impracticable.
44.20 Dry wash, 50 lks. wide, course S.W.
55.55 Dry wash, 20 lks. wide, course S.W.
80.12 Point for cor. of secs. 5, 6, 31 and 32 falls in dry
wash, 40 lks. wide, course S.W.

82.12 Set a quartz stone, 21 X 8 X 8 ins., 12 ins. in the ground,
for witness cor. to cor. of secs. 5, 6, 31 and 32,
marked with 3 notches on the E. and 1 notch on the
W. edges, and raise a mound of stone, 2 ft. base, 1 1/2
ft. high, N. of cor. Pits impracticable.
Land, rolling.
Soil, gravelly, stony and rocky; 3rd and 4th rate.
Timber, scattering mesquite; undergrowth, tesotilla,
mesquite, oak, jehava, Spanish bayonet and cactus.
Land, covered with dense undergrowth, exceptionally
difficult to survey, 82.12 chs.
July 29, 1906.

For this mile see page 2
Pep. into has attached

July 30: At 7 a.m., I set off 18° 41' N. on the decl. arc
and 33° 33' N. on the lat. arc, and determine a true
meridian with the solar at the cor. of secs. 5, 6, 31
and 32.
Thence I run,
N. 89° 55' E. bet. secs. 5 and 32.
Ascending over rolling land, through dense mesquite and
tesotilla brush.
3.00 Witness cor. to secs. 5, 6, 31 and 32.
9.00 Dry wash, 80 lks. wide, course S.W.
20.00 Leave dense brush, hrs. N.E. and S.W.
25.00 Begin steep ascent over boulders.
33.70 Top of rocky ridge, 1400 feet above tp. cor., extends
N. and S.; enter dense brush.
40.00 Set a trachyte stone, 18 X 12 X 10 ins., 12 ins. in the
ground, for 1/2 sec. cor., marked 1/2 on N. face, and
raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of
cor. Pits impracticable.
53.00 Leave boulders; descend.
55.70 Dry wash, 40 lks. wide, course S., leave dense brush
and ascend along S. slope of ridge, extends E. and W.
74.30 Top of slope, descend.
80.00 Set a trachyte stone, 18 X 10 X 10 ins., 12 ins. in the
ground, for cor. of secs. 4, 5, 32 and 33, marked with
3 notches on the W. and 4 notches on the E. edges, and
raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of
cor. Pits impracticable.
80.00
Land, mountainous and rolling.
Soil, gravelly, stony and rocky; 3rd and 4th rate.
Timber, a few cedar and mesquite; undergrowth, tesotilla,
jehava, pale christi, mesquite, spanish bayonet, giant
cactus and cactus.
Mountainous land, or land covered with dense under-
growth, exceptionally difficult to survey, 80.00 chs.

North Boundary of Tp. 2 North, R. 15 East.

For this 1/2 mile as
sup. notes have attached
page 2

chains
 July 30: At noon, I set off 18° 37' N. on the decl. arc, and observe the sun on the meridian; the resulting lat. is 33° 33' N.
 N. 89° 55' E. bet. secs. 4 and 33.
 Over mountainous land, descending.
 10.00 Gulch, 1.00 ch. wide, course S.W.; begin steep ascent.
 22.00 Ridge, extends N. and S.; descend.
 30.00 Dry wash, 120 lks. wide, course S, thence S.W.; ascend.
 35.40 Road, brs. N. and S.; enter dense brush.
 40.00 Top S. side of hill.
 Set a trachyte stone, 21 X 16 X 12 ins., in mound of stone, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor. Pits impracticable.
 Descending.
 43.60 Small gulch, course S.; Thence over rolling land.
 50.10 Old road, brs. N. E. and S.W.
 51.00 Dry wash, 2.00 chs. wide, course S.W.
 80.00 Point for cor. of secs. 3, 4, 33 and 34 falls in small gulch, course N.
 80.50 Set a porphyry stone, 18 X 10 X 8 ins., 12 ins. in the ground, for witness cor. to secs. 3, 4, 33 and 34, marked with 3 notches on the E. and W. edges, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable.
 Land, mountainous and rolling.
 Soil, gravelly, stony and rocky; 3rd and 4th rate.
 Timber, scattering cedar; undergrowth, mesquite, tesotilla, johava, Spanish bayonet and cactus. Giant cactus.
 Mountainous land, or land covered with dense undergrowth, exceptionally difficult to survey, 80.00 chs.
 July 30, 1906.

July 31: At 7 a.m. I set off 18° 26' N. on the decl. arc and 33° 33' N. on the lat. arc, and determine a true meridian with the solar at the cor. of secs. 3, 4, 33 and 34 on the north bdy. of tp.
 Thence I run,
 N. 89° 55' E. bet. secs. 3 and 34.
 Over rolling land, through dense oak brush.
 .50 witness cor. of cor. of secs. 3, 4, 33 and 34.
 9.00 Old road brs. N.W. and S.E.
 10.30 Dry wash, 2.00 chs. wide, course N.W.
 40.00 Set a porphyry stone, 21 X 6 X 6 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor. Pits impracticable.
 63.00 Enter same wash, course S.W.; road in wash brs. N.E. and S.W.
 70.00 Leave wash, course W., brs. NE.
 80.00 Set a quartz stone, 21 X 8 X 6 ins., 16 ins. in the ground, for the cor. of secs. 2, 3, 34 and 35, marked with 2 notches on the E. and 4 notches on the W. edges, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable.
 Land, rolling.
 Soil, gravelly and stony; 3rd and 4th rate.
 Timber, scattering cedar and mesquite; undergrowth, oak, mesquite, tesotilla, palo christi, johava, laurel, Spanish bayonet and cactus.
 Land covered with dense undergrowth, exceptionally difficult to survey, 80.00 chs.

July 31: At noon, I set off 18° 22' N. on the decl. arc and observe the sun on the meridian; the resulting lat. is 33° 33' N. ✓

North Boundary T. 2 N., R. 15 E.

chains	N. 89° 55' E., bet. secs. 2 and 35. Over rolling land, through dense brush.
40.00	Set a porphyry stone, 18 X 10 X 8 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
44.70	Dry wash, 30 lks. wide, course N.W.; ascend.
64.00	Ridge, extends N. and S.; leave dense brush; descend.
74.10	Dry wash, 20 lks. wide, course N.N.W.; ascend.
80.00	Set a porphyry stone, 18 X 12 X 12 ins., 12 ins. in the ground, for cor. of secs. 1, 2, 35 and 36, marked with 1 notch on the E. and 5 notches on the W. edges, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
	Land, rolling and mountainous. Soil, gravelly and stony; 3rd and 4th rate. Timber, scattering cedar; undergrowth, tesotilla, palo christi, mesquite, Spanish bayonet and cactus. Mountainous land, or land covered with dense undergrowth, exceptionally difficult to survey, 80.00 chs. July 31, 1906.
	----- August 1: At 7 a.m. I set off 18° 15' N. on the decl. arc, and 33° 33' N. on the lat. arc and determine a true meridian with the solar at the cor. of secs. 1, 2, 35 and 36. Thence I run, N. 89° 55' E., bet. secs. 1 and 36. Over mountainous land, ascending.
15.00	To foot of bluff 200 ft. high. As it is impossible to measure farther on line, I determine the distance ahead as follows:
19.70	South, 80 lks.; then, on the offset line: N. 89° 55' E., 4.70 chs.; then, North, 80 lks. to true line; Descend along foot of bluff.
26.00	Leave bluff.
34.00	Enter dense brush, course N.E. and N.W.
40.00	Set a quartzite stone, 18 X 9 X 8 ins., 12 ins. in the ground, for $\frac{1}{4}$ cor. of secs., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
44.00	Enter gulch, course S.W.
49.40	Leave gulch, course W., ascend.
80.00	The cor. of tps. 2 and 3 N., Rs. 15 and 16 E., previously described. Land, mountainous. Soil, gravelly, stony and rocky; 3rd and 4th rate. Timber, scattering cedar, undergrowth, oak, palo christi, tesotilla, laurel, mesquite, manzanita, Spanish bayonet and laurel and cactus. Mountainous, or land covered with dense undergrowth, exceptionally difficult to survey, 80.00 chs.

 1906
 1906
 1906

East bdy. T. 3 N., R. 15 E.

chains

August 19: At 7 a.m., l.m.t., I set off $12^{\circ} 59'$ N. on the decl. arc and $33^{\circ} 33'$ N. on the lat. arc, and determine a true meridian with the solar at the cor. of secs. 1, 6, 31 and 36, Tps. 2 & 3 N., Rs. 15 & 16 E. Thence I run, North, on the E. bdy. of Tp. 3. N., bet. Rs. 15 and 16 E. bet. secs. 31 and 36. E.

16.00 Gulch, 40 lks. wide, course N.W.; thence S.W.
 25.00 Gulch, 40 lks. wide, course S.W.; ascend.
 38.80 Enter dense oak brush.
 40.00 Set a quartzite stone, 18 X 8 X 6 ins., in mound of stone for $\frac{1}{4}$ sec. cor., marked with $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
 41.00 Spur, extends W., descend.
 57.00 Dry wash, 15 lks. wide, course N.W.; enter rolling land.
 62.00 Spring, 6.00 lks. wide, course E.
 63.40 Dry wash, 20 lks. wide, course W.
 70.00 Spring, 7.00 lks. wide, course E.
 80.00 Set a porphyry stone, 18 X 8 X 5 ins., 12 ins. in the ground for cor. of secs. 25, 30, 31 and 36, marked with 1 notch on the S. and 5 notches on the N. face, and raise a mound of stne, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
 Land, mountainous and rolling.
 Soil, gravelly, stony and rocky; 3rd and 4th rate.
 Timber, scattering cedar: undergrowth, oak, tesotilla, laurel, manzanita, Spanish bayonet and cactus.
 Mountainous land, and land covered with dense undergrowth, exceptionally difficult to survey, 80.00 chs.

North, bet. secs. 25 and 30.
 Over rolling land, through dense oak and laurel brush.
 14.00 Ascend, extends N.W. and S.E.
 29.00 Spur, extends E., leave dense brush, thence along E. slope of ridge, bearing N. and S.
 40.00 Set a quartz stone, 18 X 8 X 8 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
 49.80 Begin descent, brs. E. and W.
 64.00 Gulch, 60 lks. wide, courwe N.W., thence N.; ascend.
 80.00 Set a diarite stone, 18 X 8 X 8 ins., 12 ins. in the ground, for cor. of secs. 19, 24, 25 and 30, marked with 2 notches on the S., and 4 notches on the N. edges, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
 Land, mountainous and rolling.
 Soil, gravelly, stony and rocky; 3rd and 4th rate.
 Timber, scattering cedar abd pinon; undergrowth, oak, tesotilla, laurel, mesquite, manzanita, Spanish bayonet, and cactus.
 Mountainous land, or land covered with dense undergrowth, exceptionally difficult to survey. 80.00 chs.

August 19: At noon, I set off $12^{\circ} 54'$ N on the decl. arc and observe the sun on the meridian; the resulting lat. is $33^{\circ} 34'$ N.

North, bet. secs. 19 and 24.
 Over mountainous land, ascending.
 2.00 Ridge, extends E. and W., descend.
 8.20 Gulch, 20 lks. wide, course W., ascend.
 15.80 Ridge, extends E. and W., descend.
 28.50 Gulch, 40 lks. wide, course W., ascend.
 40.00 Set a balsalt stone, 18 X 10 X 8 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.

East Bdy. T. 3 N., R. 15 E.

chains

Land, mountainous.
 Soil, gravelly and stony; 5rd and 4th rate.
 Timber, scattering cedar and mesquite; undergrowth,
 oak, tesotilla, mesquite, laurel, Spanish bayonet
 and cactus.
 Mountainous land, covered with dense undergrowth, ex-
 ceptionally difficult to survey, 40.00 chs.

There being no settlers within T. 3 N., R. 15 E.,
 and the same being non-agricultural, covered with
 high mountains and traversed by deep canyons, I
 abandon the line north.

West Bdy. T. 3 N., R. 15 E.

chains From cor. of Tps. 2 and 3 N., Rs. 14 and 15 East,
 North bet secs. 31 and 36.
 Over rolling land, through dense tesotilla brush.
 17.40 Dry wash, 2.00 chs. wide, course S.W.; ascend.
 24.00 Ridge, extends E. and W., descend.
 32.90 Dry wash, 20 lks. wide, course W., reenter rolling land.
 34.87 Wire fence, brs. E. and W., E. 2.00 chs., thence N.
 40.00 Set a porphyry stone, 18 X 8 X 6 ins., 12 ins. in the
 ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, from
 which
 A cedar tree, 12 ins. diam., brs. N. 15° E., 115 lks.
 dist., marked $\frac{1}{4}$ S 31 B T,
 A cedar tree, 14 ins. diam., brs. S. 7° W., 21 lks.
 dist., marked $\frac{1}{4}$ S 36 B T.
 46.00 Dry wash, 40 lks. wide, course W.
 60.20 Dry wash, 20 lks. wide, course W.
 68.50 Dry wash, 40 lks. wide, course W., ascend.
 80.00 Set a syenite stone, 18 X 10 X 8, 12 ins. in the ground,
 for cor. of secs. 25, 30, 31 and 36, marked with 1
 groove on the S., and 5 notches on the N. edges and raise
 a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
 Pits impracticable.
 Land, mountainous, and rolling.
 Soil, gravelly, stony and rocky; 3rd and 4th rate.
 Timber, scattering cedar and mesquite; undergrowth,
 tesotilla, pale verde, johava, mesquite, oak, Spanish
 bayonet and cactus. Giant Cactus.
 Mountainous land, and land covered with dense under-
 growth, exceptionally difficult to survey, 80.00 chs.
 -----b-----

North Boundary Tp. 2 North, R. 14 East.
 August 20, 1906. at 12 h 3 m P. M.
 At the cor. of tps. 2 and 3 North, Rs. 14 and 15 East,
 I set off 12° 35' N. on the decl. arc and observe the
 sun on the meridian; the resulting lat. is 33° 33' N.

Thence I run,
 West, bet. secs. 1 and 36.
 Descending over rolling land, through dense mesquite and
 tesotilla brush.
 17.80 Road, from Gilberto Roosevelt, brs. N.W. and S.E.
 19.10 Wire fence, brs. N.W. and S.E.
 20.00 Old adobe house, brs. S. 4.00 chs. dist.
 21.00 Dry wash, 25 lks. wide, course S.W.
 22.50 Ditch, 5 lks. wide, 22 ins. deep, course N.W.
 Enter Pinal Creek bottom and heavy timber. Leave dense
 mesquite and tesotilla brush.
 37.93 Wire fence, brs. N. and S.
 39.80 To right bank of Pinal Creek, brs. N. and S.
 40.00 ~~Point for $\frac{1}{4}$ sec. cor. falls in bed of creek~~
 44.50 To left bank of Pinal Creek, brs. N. and S.
 44.50 Set a ~~trachyte~~ stone, 18 X 10 X 8 ins., 12 ins. in the ground,
 for witness corner to $\frac{1}{4}$ sec. cor., marked ~~W-3~~ $\frac{1}{4}$ on N.
 face, from which
 A ~~hackberry~~ tree, 8 ins. diam., brs. N. 32° 30' W., 6 lks.
 dist., marked $\frac{1}{4}$ S 36 ~~W-S~~ B T, 12 lks. dist. marked $\frac{1}{4}$ S 1 B T.
 No other tree within limits. Raise a mound of stone,
 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
 44.50 Leave bottom of Pinal Creek; ascend through dense mesquite
 and tesotilla brush.
 51.00 Top of mesa, brs. N. and S.
 52.00 Old stone ruins on both sides of line.
 53.00 Sieber's stone redoubt on top knoll, brs. N. 10.00 chs. dist.
 55.00 Stone fence, brs. N.E. and S.W.
 64.00 Wire fence, brs. N.E. and S.W.; begin steep ascent.
 80.00 Top of sharp rocky ridge, brs. N. and S.

chains

Cor. point for cor. of secs. 1, 2, 35 and 36 falls on trachyte boulder, 3 X 3 X 2 ft. above ground, with I mark with a cross for exact cor. point, with 1 notch E. of cross and 5 notches W. of cross, and raise a mound of stone, 2 ft. base, 1 ft. high, 8 lks. S. of cor. to W.

Pits impracticable.

This cor. stands on top of a bluff 500 ft. high.

Land, level, rolling and mountainous.

Soil, alluvial, sandy, gravelly, stony and rocky; 1st, 2nd, 3rd and 4th rate.

Timber, cottonwood, willow, mesquite and hackberry.

Undergrowth, tesotilla, mesquite, jehava, sunflowers, and cactus.

Mountainous land, or land covered with dense undergrowth, exceptionally difficult to survey, 80.00 chs.

The line south from this cor. is impracticable.

August 20, 1906.

Edgar C. Dietrich
U. S. Deputy Surveyor.

S. bdy. Tp. 3 N., R. 14 E.

Chs.

(After completion of mile bet. secs. 1 and 36)

West bet. secs. 2 and 35.

Descending from high rocky ridge.

18.50 Gulch, 40 lks. wide, course N. Ascend.

40.00 Set a malpais stone 18 x 10 x 10 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

Pits impracticable.

At this point I discontinue line as the country further west is extremely rough, rugged and impracticable to survey.

Land, mountainous.

Soil, rocky; 4th rate.

Timber, a few mesquite and tesota; undergrowth, mesquite, tesota, and cacti.

Land, mountainous, or exceptionally difficult to survey, 40.00 chs.

Very respectfully,

Edgar C. Dietrich
U. S. Deputy Surveyor.

BOOK 2108

*In authentic ink connections are Deputy
Statement February 1907.*

Final Oaths of Deputy Surveyor and his Assistants.

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BOOK 2108

LIST OF NAMES.

A list of the names of the individuals employed by Edgar C. Distovich

....., 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 W. G. N. and N. and a portion of the S. Body of T. 2 N., R. 15 E.; and S. 2 N. R. 15 E. and S. 2 N. R. 14 E.

showing the respective capacities in which they acted:

- Charles Mc Cormick , Chairman.
- Charles Durkee , Chairman.
- W. R. Arnold , Moundman.
- , Moundman.
- Gas. Tined , Axman.
- , Axman.
- Walter Tafel , Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Edgar C. Distovich

....., United States Deputy Surveyor, in surveying all

those parts or portions of the W. G. N. and S. Body of T. 2 N., R. 15 E.; and S. 2 N. R. 15 E.; and S. 2 N. R. 14 E.

of the Gila and Salt River of the 111th base

and Sanitary meridian, of Kingman, 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 Kingman

- Charles Mc Cormick ✓ , Chairman.
- Charles Durkee ✓ , Chairman.
- , Moundman.
- W. R. Arnold ✓ , Moundman.
- , Axman.
- Gas. Tined ✓ , Axman.
- Walter Tafel ✓ , Flagman.

Subscribed and sworn to before me this 1st

day of September, 1906, 190



W. G. Powers

Notary Public, Pima County, Arizona Territory.
My Commission Expires April 27th, 1908.

120

(17)

BOOK 2108 Final Oath of United States Deputy Surveyor.

I, Edgar C. Dietrich United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Frank A. S. Ingalls, United States Surveyor General for Arizona, bearing date of the 2nd day of May, 1906, 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 N 1/2 of T 2 N R 15 E; the frac East and West halves T 3 N R 15 E; and frac N 1/2 of T 2 N R 14 E.

of the Gila and Salt River of the _____ base and _____ meridian, in the Territory of Arizona, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Arizona and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Edgar C. Dietrich
United States Deputy Surveyor.

Subscribed by said Edgar Dietrich, and sworn to before me this 7th day of February, 1907.

W. H. ...
Commissioner



APPROVAL.

Office of the United States Surveyor General,

Phoenix, AZ, June 22nd 1907, 189

The foregoing field notes of the survey of the North, East, West and a portion of the South boundaries of T 2 N R 15 E, the frac East and West boundaries of T 3 N R 15 E and frac North boundary of T 2 N R 14 E, of the Gila and Salt River Base and Meridian, in the territory of Arizona.

executed by Edgar C. Dietrich under his contract No. 140, dated May 2 - 1906, ~~189~~, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Frank A. 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.

BOOK 2108

FIELD NOTES

OF THE SURVEY OF THE

EXTERIOR LINES

OF

TOWNSHIP 2 NORTH, RANGE 15 EAST.

Of the Gila Salt River Base and Meridian,

AS SURVEYED BY

Edgar C. Dietrich, United States Deputy Surveyor,

Under his Contract No. 140, dated May 2, 1906.

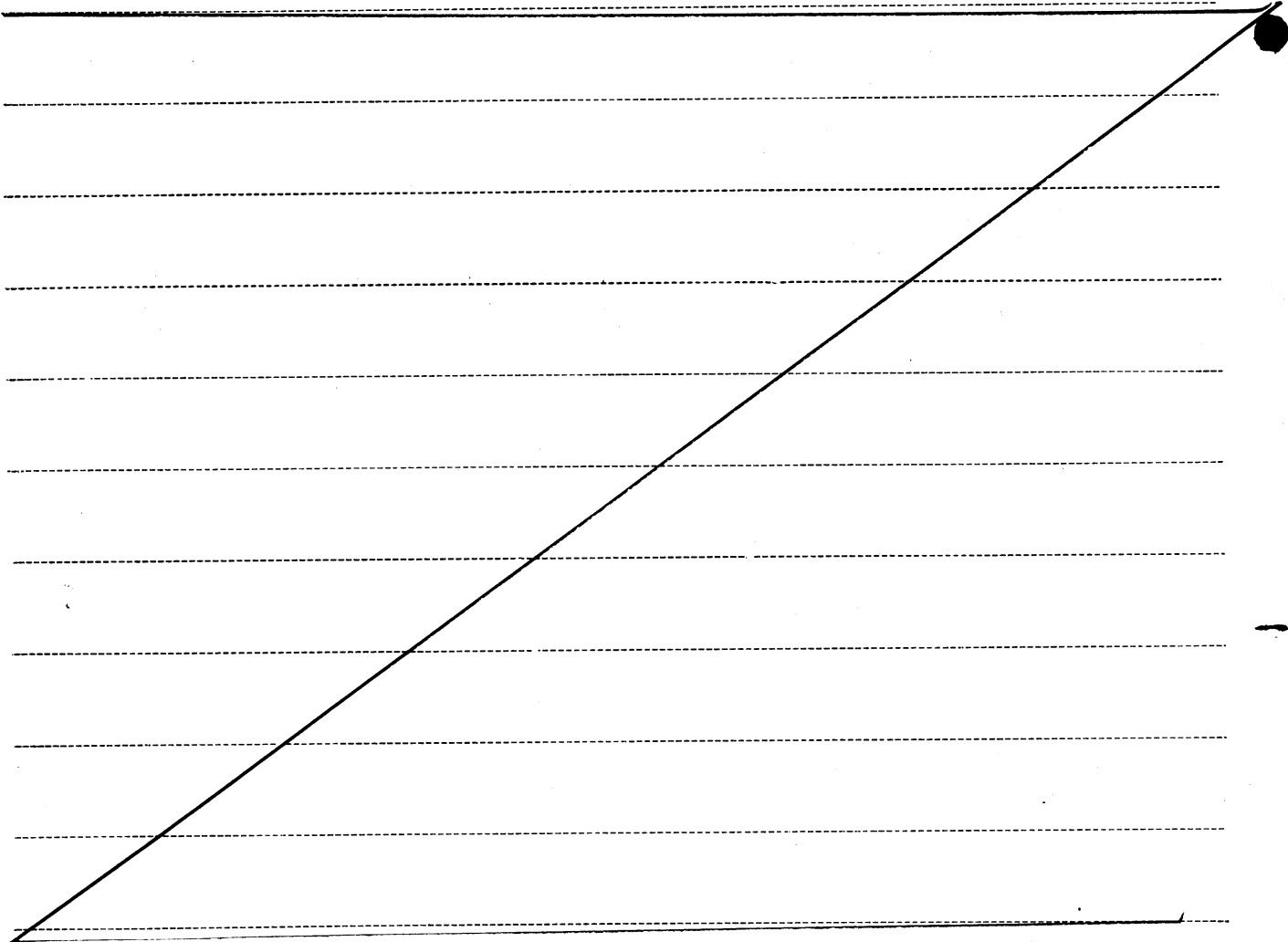
Survey commenced Dec. 2, 1907.

Survey completed Dec. 7, 1907.

BOOK 2108

For NAMES AND DUTIES OF ASSISTANTS.

See Book Supplemental "B," Subdivisions of T.2 N., R.15 E.



BOOK 2108

INDEX DIAGRAM.

Township 2 N., Range 15 E.

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19	20	21	22	23	24	
30	29	28	27	26	25	
31	32	33	34	35	36	

Meanders Page.....

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 _____, 190



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 _____, 190



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 _____, 190



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 _____, 190



(20) BOOK 2108 123
 Supplemental Notes
 Corrections West Bdy. Township 2 North, Range 15 East.

Chains.

Dec. 5th, 1907.
 At the cor. of sees. 7, 12, 13 and 18 on W. bdy. of township, as described in original notes, at 9h. 20m., a.m., l.m.t., I set off 33° 31' N. on the lat. arc; 22° 17' S. on the decl. arc, and determine a true meridian with the solar. Thence I run,
 North, between sees. 7 and 12.
 Along top of ridge, over trachyte boulders.
 4.40 Leave boulders and descend through dense palo christo undergrowth.
 11.47 Wire fence hrs. NE.
 19.80 Deep gulch. 30 lks. wide, course E. Leave undergrowth and ascend steep.
 28.00 Top of spur, extending E. Descend.
 38.75 Dry wash, 20 lks. wide, course E., ascend.
 40.00 Top of spur, extending NE.
 set a trachyte, 18x12x6 ins., 12 ins. in the ground for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone 2 ft. base, 1-1/2 ft. high, W. of cor. Pits impracticable.
 Enter dense brush, and begin steep descent.
 50.20 Foot of steep descent, hrs. E. and W., thence over gently rolling land.
 59.40 Old stone wall hrs. 9.00 hrs. E.
 75.50 Draw, 2.00 hrs. wide, hrs. E.
 80.00 Set a trachyte rock, 18x8x6 ins., 12 ins. in the ground for cor. of sees. 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, 1-1/3 ft. high, W. of corner. Pits impracticable.
 Land, mountainous and gently rolling.
 Soil, gravelly and stony, and rocky; 3rd and 4th rate.
 Timber, scattering cedar and mesquite; undergrowth, mesquite, tesota, ocotilla and cacti.
 Land, mountainous, covered with dense undergrowth, or land exceptionally difficult to survey, 80.00 hrs.

Thence North, bet. secs. 1 and 6.
 Over gently rolling land, through dense mesquite and tesota undergrowth.

11.20 Old ruins hrs. 60 lks. W.
 11.72 Wire fence hrs. NW.
 15.00 Leave dense undergrowth; enter Pinal Creek bottom, course NW.
 15.40 Enter cultivated ground.
 27.00 Irrigation ditch, 5 lks. wide, 10 ins. deep, course westerly.
 27.20 Wire fence hrs. westerly; leave field. Enter heavy willow and cottonwood timber and dense undergrowth.
~~27.40 set a porphyry stone 12x12x8 ins., 12 ins. in the ground, for witness cor. to Meander cor. of frac. sees. 1 and 6, marked W C M C on N., and 6 grooves on E. and W. faces, from which,
 A cottonwood, 14 ins. diam., hrs. N. 47-1/2° E., 117 lks. dist., marked W C T 2 N R 15 E S 6 M C B T.
 A cottonwood, 8 ins. diam., hrs. N. 4° W., 135 lks. dist., marked W C T 2 N R 14 E S 1 M C B T.~~
 33.40 To left bank of Pinal Creek. Cor. point on ground subject to overflow. Leave heavy timber.
 37.40 Permanent running water, 20 lks. wide, 10 ins. deep, course NW.
 38.60 To right bank of Pinal Creek. ~~Set a trachyte stone, 12x8x6 ins., 12 ins. in the ground, for meander cor. of frac. sees. 1 and 6, marked M C on S., with 6 grooves on E. and W. faces, from which,
 A willow, 12 ins. diam., hrs. S. 39-1/4° E., 23 lks. dist., marked T 2 N R 15 E S 6 M C B T.
 An elder, 7 ins. diam., hrs. N. 50-1/2° W., 13 lks. dist., marked T 2 N R 14 E S 1 M C B T.~~
 38.90 Dry ditch, 8 lks. wide, course NW.

See page 4 orig. notes.

See page 5 orig. notes.

2. Corrections West Boundary Township 2 North, Range 15 East.

(2) chains.
40.00
45.00
48.70
50.00
52.16
52.35
73.15
80.00

Set a trachyte stone, 18x10x8 ins., 13 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face from which,
A mesquite, 7 ins. diam., bws. S. 15-1/2° E., 52 lks. dist. marked 1/4 S 6 B T.
A mesquite, 8 ins. diam., bws. S. 30-1/2° W., 20 lks. dist., marked 1/4 S 1 B T.

Road to Chinese gardens, course westerly; leave dense undergrowth.
stable, 50 lks. E.
Colin D. Ferguson's ranch house bws. 140 lks. W.
Wire fence bws. NW.
Road from Globe to Roosevelt, bws. NW. Leave creek bottom; thence over rolling land, through dense brush.
Dry wash, 20 lks. wide, course SW.

Set a trachyte 24x18x14 ins. in mound of stones for cor. of Tps. 2 and 3 N., Rs. 14 and 15 E., marked with 6 grooves on N., S., E. and W. edges; and 3 N on NE.; 15 E on SE.; 2 N on SW., and 14 E on NW. faces; and raised a mound of stone 3 ft. base, 1-1/2 ft. high, S. of cor. Pits impracticable.
Land, rolling and level.
Soil, alluvial, sandy loam, gravelly and stony; 1st, 2nd, 3rd and 4th rate.
Timber, willow, cottonwood, mesquite and elder; undergrowth, mesquite, tesota, willow, arrowweeds and cacti.
Land, covered with heavy timber and dense undergrowth, or exceptionally difficult to survey, 57.17 chs.
Dec. 5th, 1907.

Note: From this corner the 1/4 corner on the W. bdy. and the 1/4 cor. point on the S. bdy. of sec. 36, T. 3 N., R. 14 E. bear North 40.00 chs. and West 40.00 chs. respectively.

North Boundary T. 2 N., R. 15 E.

Dec. 6, 1907.
From the corner of Tps. 2 and 3 N., Rgs. 14 and 15 E. just described, I run,
N. 89° 55' E., bet. secs. 6 and 31.

18.00 Dry wash, 100 lks. wide, course SW.
40.12 Set a porphyry stone, 18x8x8 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1-1/2 ft. high, N. of cor. Pits impracticable.

44.20 Dry wash, 30 lks. wide, course SW.
55.55 Dry wash, 20 lks. wide, course SW.
80.12 Point for cor. of secs. 5, 6, 31 and 32 falls in dry wash, 20 lks. wide, course SW.
82.12 The W.G. to secs. 5, 6, 31 and 32, as described in original notes.

From the point for cor. of secs. 5, 6, 31 and 32 on N. bdy., I run from true cor. point,
N. 89° 55' E. on a true line, bet. secs. 5 and 32.
Ascending over rolling land, through dense mesquite and tesota undergrowth.

2.00 Witness cor. for secs. 5 and 6, 31 and 32, previously described.
9.00 Dry wash, 20 lks. wide, course SW.
20.00 Leave dense undergrowth, bws. NE.
23.00 Begin steep ascent over boulders.
33.70 Top of rocky ridge, 1400 feet high above Tp. cor. bws. N. and S. Enter dense undergrowth.
40.00 Set a trachyte stone, 18x12x10 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone 2 ft. base, 1-1/2 ft. high, N. of cor.

See my notes page 9

See my notes page 9

Chains
53.00
55.70
74.30
80.00

Pits impracticable.
Leave boulders, descend.
Rocky gulch, 40 lks. wide; leave dense undergrowth, and ascend along S. slope of ridge, bearing E. and W.
Top of slope, and descend.
Set a trachyte 18x10x10 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 3 ft. base, 1-1/2 ft. high, W. of cor. Pits impracticable.
Land, mountainous and rolling.
Soil, gravelly, stony and rocky, 3rd and 4th rate.
Timber, a few cedar and mesquite; undergrowth, tesota, mesquite, Spanish bayonet and cauti.
Mountainous land, or covered with dense undergrowth, or land exceptionally difficult to survey, 80.00 chs.
Note: From this cor. the 1/4 cor. bet. secs. 4 and 5 brs. S. 0° 2' E., 39.98 chs.

See orig. notes page 10.

10.00
22.00
30.00
35.40
40.00

From cor. to secs. 4, 5, 32 and 33, I run,
N. 89° 55' E., bet. secs. 4 and 33.
Gulch, 1.00 ch. wide, course SW.; begin steep ascent.
Ridge, extends N. and S.; descend.
Dry wash, 120 lks. wide, course S.; thence SW.; ascend.
Road, brs. N. and S.; enter dense brush.
To 1/4 cor. of secs. 4 and 33, as described in original notes.

Edgar C. Dietrich
U. S. Deputy Surveyor.

For FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.
See Book Supplemental "B" Subdivisions of T.2 N., R.15 E.

LIST OF NAMES.

BOOK 2108

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.*

For FINAL OATH OF ASSISTANTS.

See Book Supplemental "B," Subdivisions of T.2 N., R.15 E.

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, 190



23 For FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.
See Book Supplemental "B," Subdivisions of T.2 N., R.15 E.

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 _____, 190 _____, 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 _____, 190 _____



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Arizona March 16, 1909
The foregoing ^{supplemental} field notes of the survey of *Extension lines of T. 2 N. R. 15 E. Gila and Salt River Base and Meridian, Arizona*

executed by *Edgar C. District, U.S. Deputy Surveyor* under his contract No. *140*, dated *May 2*, 1906, 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.