

Book F

BOOK 2228

Accepted Letter E.  
Dec. 19, 1911

MAY 17 1910

2223

# FIELD NOTES

2223

OF THE SURVEY OF THE

2223

*Subdivisions  
of T. 2 S., R. 12 E.*

2223

Of the *Gila and Salt River Basins* and Meridian,

2223

2223

AS SURVEYED BY

*Jacobs & Curry*, United States Deputy Surveyors,  
Under ~~his~~ <sup>their</sup> Contract No. *148*, dated *March 20<sup>th</sup>*, 190*8*  
Survey commenced *July 15*, 190*8*  
Survey completed *August 22*, 1911

2223

135  
1A

NAMES AND DUTIES OF ASSISTANTS.

BOOK 2228

Narry J. Young Chairman  
Jim A. Ellis "  
Norman Oliver Mendenham

BOOK 2228

INDEX DIAGRAM.

Township 20, Range 17 E

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o see attached letter

PRELIMINARY OATHS OF ASSISTANTS.

WE, James A. Kellis and Guy Phelps  
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 Subdivisions of J. & S. R. 12 E

James A. Kellis, Chainman.  
Guy Phelps, Chainman.

Subscribed and sworn to before me this 1  
day of March, 1900

Lawrence Jacobs



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



BOOK 2228

# INDEX DIAGRAM.

Township \_\_\_\_\_, Range \_\_\_\_\_

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PRELIMINARY OATHS OF ASSISTANTS.

BOOK 2228

*Ramon Valdez*

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

*Corrections and changes in T. 2 S. R. 12 E*

*Ramon Valdez*, Chainman.  
\_\_\_\_\_, Chainman.

Subscribed and sworn to before me this *21* day of *August*, 19*11*



*Francis B. Jacobs*  
*U. S. Deputy 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 \_\_\_\_\_



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 \_\_\_\_\_



BOOK 2228

For INDEX DIAGRAM. see next page

Township 2 S., Range 12 E.

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Meanders Page.....

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BOOK 2228

PRELIMINARY OATHS OF ASSISTANTS.

WE, Harry S. Young and Jim A. Kellis  
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 subdivisions of T. 2. S. - R. 12. E.

Harry S. Young, Chainman.  
Jim A. Kellis, Chainman.

Subscribed and sworn to before me this 14  
day of July, 1908 }



My commission expires September 20, 1911

Francis Jacobs  
Notary Public

WE, A. Norman Oliver 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 Subdivisions of T. 2. S. - R. 12. E.

A. Norman Oliver, Moundman.  
\_\_\_\_\_, Moundman.

Subscribed and sworn to before me this 14  
day of July, 1908 }



My commission expires September 20, 1911

Francis Jacobs  
Notary Public

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 \_\_\_\_\_ }





Chains.

Survey commenced July 15, 1908, and executed with a Gurley light mountain transit, with solar attachment, as described in Book D. I test the instrument on the meridian established June 22, and 23, and find the adjustments satisfactory. Also described in Book D.

July 15; At 8h a.m., l.m.t., I set off  $33^{\circ}12'$  Non the lat. arc;  $21^{\circ}33'$  N. on the decl. arc, and determine a meridian with the solar, at the cor. of secs. 1, 2, 35 and 36, on the S. bdy. of the Tp., recently established by us. Thence I run N.  $0^{\circ}1'$  W. bet. secs. 35 and 36. Over mountainous land. Descend.

14.00 Canon, 1 ch. wide, course W.

15.00 Ascend.

30.00 Ridge, bears E. and W. Descend.

40.00 Set a trachite stone 24x10x6 ins. 18 ins. in the ground, for 1/4 sec. cor. marked 1/4 on W. face, and raise a mound of stone 3 ft. base, 2 ft. high W. of cor. Pits impracticable.

63.00 South Fork, Arnett Canon, 50 lks. wide, course NW. Ascend

80.00 Set a granite stone, 18x12x6 ins., 12 ins. in the ground, for cor. of secs. 25, 26, 35 and 36, marked with 1 notch on S. and E. edges, and raise a mound of stone 3 ft. base, 2 ft. high W. of cor., Pits impracticable. Land mountainous. Soil rocky, 4th rate. No timber. Mountainous land, exceptionally difficult to survey, 80.00 chs.

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East on a random line bet. secs. 25 and 36.

40.00 Set temp. 1/4 sec. cor.

79.68 Intersect E. bdy of the Tp. 18 lks. S. of the cor. of secs. 25, 30, 31 and 36, recently established by us. Thence I run S.  $89^{\circ}52'$  W. on a true line bet. secs. 25 and 36. Over mountainous land, through dense undergrowth. Descend bluff. course W.

80.25

36.50 Leave wash, turns S.  $80^{\circ}$  W. Ascend.

38.50 Top of bank.

39.84 Set a limestone 20x10x8 ins. 15 ins. in the ground, for 1/4 sec. cor. marked 1/4 on N. face, and raise a mound of stone 3 ft. base, 2 ft. high N. of cor. Pits impracticable

44.00 Same wash, 50 lks. wide, course N.  $60^{\circ}$  W.

46.00 Ascend.

79.00 Ridge, bears NW. and SE.

79.68 The cor. of secs. 25, 26, 35 and 36. Land mountainous. Soil 4th rate. No timber. Mountainous land, covered with dense undergrowth of thorn bushes, exceptionally difficult to survey, 79.68 chs

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N.  $0^{\circ}1'$  W., bet. secs. 25 and 26. Over mountainous land. Ascend.

2.50 Ridge bears SE. and NW. Descend.

29.15 Arnett Canon, 60 lks. wide, course SW. and

Chains. Road, Superior to Ray, bears E. and W. Ascend.  
 40.00 Set a malpais stone 20x10x5 ins., 15 ins. in the ground,  
 for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound  
 of stone 3 ft. base, 2 ft. high W. of cor. Pits impracticable.  
 56.00 Ridge, bears NW.  
 Descend.  
 65.80 Gulch, 10 lks. wide, course SE.  
 Ascend abruptly.  
 80.00 Ridge, bears E. and W.  
 Set a limestone 16x10x8 ins., 11 ins. in the ground for  
 cor. of secs. 23, 24, 25 and 26, marked with 2 notches on  
 S. and 1 notch on E. edge, and raise a mound of stone 3 ft.  
 base, 2 ft. high W. of cor. Pits impracticable.  
 Land mountainous,  
 Soil 4th rate.  
 No timber.  
 Mountainous land, exceptionally difficult to survey,  
 80.00 chs.  
 July 15, 1908.

N. 89° 52' E., on a random line, bet. secs. 24 and 25.  
 40.00 Set temp. 1/4 sec. cor.  
 79.80 Intersect E. bdy. of the Tp., 7 lks. N. of the cor. of secs.  
 19, 24, 25 and 30, recently established by us.  
 Thence I run  
 S. 89° 55' W., on a true line bet. secs. 24 and 25.  
 Over very mountainous land.  
 2.00 Ridge, bears N. and S.  
 Descend abruptly.  
 10.30 Gulch 25 lks. wide, course SW.  
 Ascend.  
 39.90 Set a quartz stone 20x6x5 ins., 15 ins. in the ground, for  
 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of  
 stone 3 ft. base 2 ft. high, N. of cor. Pits impracticable.  
 52.00 Mountain ridge, bears N. 60° E. and SW.  
 Descend very abruptly.  
 77.00 Gulch, 20 lks. wide, course S.  
 79.80 The cor. of secs. 23, 24, 25 and 26.  
 Land very mountainous.  
 Soil 4th rate.  
 No timber.  
 Mountainous land, exceptionally difficult to survey,  
 79.80 chs.

July 16; At 2h, p.m., l.m.t., I set off 33° 14' N on the  
 lat. arc; 21° 21 1/2' N. on the decl. arc, and determine a true  
 meridian with the solar, at the cor. of secs. 23, 24, 25, 26.  
 Thence I run.  
 N. 0° 1' W. bet. secs. 23 and 24.  
 Over very mountainous land.  
 Descend.  
 39.80 Gulch 10 lks. wide, course W.  
 40.00 A trachite stone in place, 12x30x18 ins. above ground,  
 for 1/4 sec. cor. marked 1/4 on W. face, and raise a  
 mound of stone 3 ft. base, 2 ft. high W. of cor.  
 Pits impracticable.

Chains.  
 54.00 Ascend abruptly.  
 Ridge brs. E. and W.  
 Descend abruptly.  
 65.00 Gulch 60 lks. wide, course NW.  
 69.50 Gulch 30 lks. wide, course W.  
 Ascend abruptly.  
 76.00 Ridge brs. NE and SW.  
 Descend.  
 79.40 Gulch 10 lks. wide, course S. 75° W.  
 Ascend abruptly.  
 80.00 Set a granite stone 18 x 10 x 8 ins., 12 ins. in the ground, for cor. of secs. 13. 14. 23 and 24, marked with 3 notches on the S. and 1 notch on E. edge. Raise a mound of stone 3ft. base, 2ft. high, W. of cor. Pits impracticable.  
 Land, very mountainous.  
 Soil, 4th rate.  
 No timber.  
 Mountainous land exceptionally difficult to survey,  
 80.00 chs.

July 16, 1908.

July 17; At 2h.a.m., l.m.t., we set off 33° 15' N on the lat. arc; 21° 14' N on the decl. arc; and determine a true meridian with the solar, at the cor. of secs. 13. 14. 23 and 24.  
 Thence we run  
 N. 89° 55' E on a random line bet. secs. 13 and 24.  
 40.00 Set temp. 1/4 sec. cor.  
 79.98 Intersect E. bay. of the Tp., 30 lks. N. of the cor. of secs. 13. 18. 19 and 24, recently established by us.  
 Thence we run  
 N. 89° 52' W. on a true line bet. secs. 13 and 24.  
 Over very mountainous land.  
 Ascend.  
 5.00 Ridge brs. N. and S.  
 Descend.  
 7.30 Gulch, 10 lks. wide, course SW.  
 Ascend.  
 15.00 Mountain ridge, brs. N. and S.  
 Descend abruptly.  
 36.50 Gulch 30 lks. wide, course S.  
 Ascend.  
 39.99 Set a limestone, 16 x 10 x 8 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone 3ft. base, 2ft. high, N. of cor. Pits impracticable.  
 49.00 Ridge brs. N. and S.  
 Descend.  
 63.20 Gulch 40 lks. wide, course S. 30° W.  
 Ascend.  
 72.00 Ridge brs. NE and SW.  
 Descend abruptly.  
 79.98 The cor. of secs. 13. 14. 23 and 24.  
 Land very mountainous.  
 Soil, 4th rate.  
 No timber.  
 Mountainous land exceptionally difficult to survey,  
 79.98 chs.

N. 0° 1' W. bet secs. 13 and 14.  
 Over very mountainous land.  
 Ascend abruptly.  
 40.00 Set a limestone 18 x 10 x 4 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone 3ft. base, 2ft. high, W. of cor. Pits impracticable.

Chains.

Bell Springs brs. W. about  $\frac{1}{2}$  mile.  
 45.00 Descend along W. slope of mountain.  
 76.60 Gulch 30 lks. wide, course N.  $75^{\circ}$  W.  
 Ascend.  
 80.00 Set a granite stone 20 x 10 x 6 ins., 15 ins. in the  
 ground, for cor. of secs. 11. 12. 13 and 14, marked  
 with 4 notches on S. and 1 notch on E. edge, and  
 raise a mound of stone  $3\frac{1}{2}$  ft base,  $2\frac{1}{2}$  ft. high, W.  
 of cor. Pits impracticable.  
 Bob Stewart's cabin near which A. J. Daggs and Hunter  
 were killed, January 1st. last, brs. N.  $48^{\circ}$  E.  
 about 40 chs.  
 Land mountainous.  
 Soil 3d rate. No timber.  
 Mountainous land, exceptionally difficult to survey.  
 July 17, 1908. 80.00 chs.

July 18; At 7h. 15m. a.m., l.r.t., we set off  $33^{\circ} 16' N$  on  
 the lat. arc;  $21^{\circ} 4' N$  on the decl. arc; and determine  
 a true meridian with the solar, at the cor. of  
 secs. 11. 12. 13 and 14.  
 Thence we run  
 S.  $89^{\circ} 52'$  E. on a random line bet. secs. 12 and 13.  
 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
 80.14 Intersect E. bay. of the Tp., 18 lks. S. of the cor.  
 of secs. 7. 12. 13 and 18, recently established  
 by us.  
 Thence we run  
 W. on a true line bet. secs. 12 and 13.  
 Over very mountainous land.  
 Descend very abruptly.  
 40.07 Set a Quartz stone 18 x 10 x 6 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 3ft. base, 2ft. high, N. of  
 cor. Pits impracticable.  
 80.14 The cor. of secs. 11. 12. 13 and 14.  
 Land very mountainous.  
 Soil, 4th rate.  
 No timber.  
 Mountainous land exceptionally difficult to survey,  
 80.14 chs.

N.  $0^{\circ} 1'$  W. bet secs. 11 and 12.  
 Over very mountainous land.  
 3.50 Gulch 20 lks. wide, course SW.  
 Ascend.  
 34.00 Ridge brs. E., slopes W.  
 Descend.  
 40.00 Set a trachite 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, and  
 raise a mound of stone 3ft. base, 2ft. high, W. of  
 cor. Pits impracticable.  
 43.00 Gulch 10 lks. wide, course S.  $60^{\circ}$  W.  
 Ascend very abruptly.  
 58.00 Ridge brs. E. and W.  
 Descend abruptly.  
 69.75 Gulch 25 lks. wide, course W.  
 Ascend abruptly.  
 80.00 Set a limestone 16 x 12 x 6 ins., 11 ins. in the  
 ground, for cor. of secs. 1. 2. 11 and 12, marked  
 with 5 notches on S. and 1 notch on E. edge, and  
 raise a mound of stone 4ft. base, 3ft. high, W.  
 of cor. Pits impracticable.  
 Land very mountainous.  
 Soil, 4th rate.  
 No timber,  
 Mountainous land exceptionally difficult to survey,  
 80.00 chs.

July 18, 1908.

Chains.

July 19; At 7h.a.m., l.w.t., we set off 33° 16' N on the lat. arc; 20° 53' N on the decl. arc; and determine a true meridian with the solar, at the cor. of secs. 1. 2. 11 and 12.

Thence we run East on a random line bet. secs. land 12.

40.00

Set temp. 1/4 sec. cor.

80.08

Intersect E. bdy. of T<sub>2</sub> 20 lks. N. of the cor. of secs. 1. 6. 7 and 12, recently established by us.

Thence we run

N. 89° 51' W. on a true line, bet. secs. 1 and 12.

Over very mountainous land.

Ascend over huge boulders.

7.00

Ridge brs. NE and SW.

Descend abruptly.

13.50

Gulch 20 lks. wide, course NE.

Ascend abruptly.

21.25

Ridge brs. NE and SW.

Descend abruptly.

28.75

Gulch 25 lks. wide, course NE.

Ascend abruptly.

40.04

Set a trachite stone 20 x 10 x 6 ins., 15 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone 3ft. base, 2ft. high, N. of cor. Pits impracticable.

45.50

Rim of Apache Leap brs. N. and S.

Descend very abruptly.

80.08

The cor. of secs. 1. 2. 11 and 12.

Land very mountainous.

Soil, 4th rate.

No timber.

Mountainous land, exceptionally difficult to survey, 80.08 chs.

N. 0° 1' W. bet. secs. 1 and 2.

Over very mountainous land.

Ascend very abruptly.

8.00

Mountainous ridge brs. E. and W.

Descend very abruptly.

18.50

Gulch 15 lks. wide, course W.

Ascend very abruptly.

28.00

Ridge brs. E. and W.

Descend very abruptly.

37.50

Gulch 20 lks. wide, course W.

Ascend along W. bluffs of Apache Leap.

40.00

Set a trachite stone 24 x 16 x 8 ins. 18 ins., in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone 3ft. base, 2ft. high, W. of cor. Pits impracticable.

79.60

Intersect S. bdy. of T 1 S., R 12 E., 13.24 chs. W. of the cor. of T<sub>2</sub> 1 S., R<sub>2</sub> 12 and 13 E.

A trachite in place, 2 1/2 x 2 x 3 ft. above ground, for closing cor. of secs. 1 and 2, marked with a cross at the cor. point, and C C on S. and 1 groove on E. and 5 grooves on W. face, and raise a mound of stone 4ft. base, 3ft. high, S. of cor. Pits impracticable.

Land, very mountainous.

Soil, 4th rate.

No timber.

Mountainous land, exceptionally difficult to survey, 79.60 chs.

July 19, 1908.

## Subdivisions of T 2 S., R 12 E.

Chains.

	<p>July 20; At 7h a.m., l.m.t., we set off <math>33^{\circ} 12' N</math> on the lat; arc; <math>20^{\circ} 42' N</math> on the decl. arc; and determine a true meridian with the solar, at the cor. of secs. 2. 3. 34 and 35, on the S. bay of the Tp.</p> <p>Thence we run N. <math>0^{\circ} 1' W</math>. bet. secs. 34 and 35. Over mountainous land. Descend. Gulch 20 lks. wide, course NW. Ascend. Ridge brs. E. and W. Descend. Set a limestone <math>18 \times 6 \times 6</math> ins., 12 ins. in the ground, for <math>\frac{1}{4}</math> sec. cor., marked <math>\frac{1}{4}</math> on W. face, and raise a mound of stone 3ft. base, 2ft. high, W. of cor. Pits impracticable. Set a limestone <math>20 \times 10 \times 6</math> ins., 15 ins. in the ground, for cor. of secs. 26. 27. 34 and 35, marked with 1 notch on S. and 2 notches on E. edges, and raise a mound of stone 3ft. base, 2ft. high, W. of cor. Pits impracticable. Land, mountainous. Soil, 4th rate. No timber. Mountainous land exceptionally difficult to survey, 80.00 chs.</p>
40.00	East on a random line bet. secs. 26 and 35.
80.08	Set temp. $\frac{1}{4}$ sec. cor. Intersect N. and S. line 36 lks. N. of the cor. of secs. 25. 26. 35 and 36. Thence we run N. $89^{\circ} 45' W$ . on a true line bet. secs. 26 and 35. Over mountainous land. Descend. Gulch 20 lks. wide, course NW. Ascend, Set a trachite stone $24 \times 12 \times 8$ ins., 18 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone 3ft. base, 2ft. high, N. of cor. Pits impracticable. Ridge brs. SE and NW. Descend. Gulch 10 lks. wide, course N. $20^{\circ} W$ . Ascend. Ridge brs. N. and S. Descend abruptly. The cor. of secs. 26. 27. 34 and 35 Land, mountainous. Soil, 4th rate. No timber. Mountainous land, exceptionally difficult to survey, 80.08 chs.
40.00	N. $0^{\circ} 1' W$ . bet. secs. 26 and 27. Over mountainous land. Descend along W. slope of ridge. Set a malpais stone $18 \times 12 \times 6$ 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, 3ft. base, 2ft. high, W. of cor. Pits impracticable. Ascend. Ridge brs, NE and SW. Descend. Arnett Creek 1 ch. wide, course N. $60^{\circ} W$ .

Chains.  
71.00  
80.00

Ascend.  
Set a limestone 18 x 10 x 8 ins., 12 ins. in the ground, for cor. of secs. 22, 23, 26 and 27, marked with 2 notches on S. and E. edges; dig pits 18 x 18 x 12 ins., in each sec., 5 1/2 ft. dist. and raise a mound of earth and stone 4ft. base, 2ft. high, W. of cor.  
Land mountainous.  
Soil, 4th rate.  
No timber.  
Mountainous land, exceptionally difficult to survey,  
80.00 chs.

July 20, 1908.

40.00  
80.14

July 21; At 7h.a.m., l.m.t., we set off 33 14' N on the lat. arc; 20 31' N on the decl. arc; and determine a true meridian with the solar, at the cor. of secs. 22, 23, 26 and 27.

Thence we run S. 89 45' E. on a random line bet. secs. 23 and 26.

Set temp. 1/4 sec. cor.

Intersect N. and S. line, 8 lks. S. of the cor. of secs. 23, 24, 25 and 26.

Thence we run

N. 89 48' W. on a true line bet. secs. 23 and 26.

Over mountainous land.

Along summit of mountain ridge.

40.07

Set a limestone 20 x 12 x 5 ins., 15 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone 3ft. base, 2ft. high, N. of cor. Pits impracticable.

42.00

Descend very abruptly.

65.00

Bottom of abrupt descent.

80.14

The cor. of secs. 22, 23, 26 and 27.

Land very mountainous.

Soil, 4th rate.

No timber.

Mountainous land, very difficult to survey,  
80.14 chs.

17.00

N. 0 1' W. bet. secs. 22 and 23.

30.50

Over mountainous land.

Ascend.

Ridge brs. E. and W. Descend.

Gulch 15 lks. wide, course W.

40.00

Ascend.

Set a talpais stone 16 x 12 x 8 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone 3ft. base, 2ft. high, W of cor. Pits impracticable.

46.00

Descend.

80.00

Set a limestone 16 x 10 x 4 ins., 12 ins. in the ground, for cor. of secs. 14, 15, 22 and 23, marked with 3 notches on S. and 2 notches on E. edges, and raise a mound of stone 3ft. base, 2ft. high, W. of cor. Pits impracticable.

Land mountainous.

Soil, 4th rate.

No timber.

Mountainous land exceptionally difficult to survey,  
80.00 chs

S. 89 48' E. on a random line bet. secs. 14 and 23.

## Subdivisions of T 2 S., R 12 E.

Chains.  
 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
 80.16 Intersect N. and S. line, 24 lks. S. of the cor. of  
 secs. 13. 14. 23 and 24.  
 Thence we run  
 N.  $89^{\circ}58'$  W. on a true line, bet. secs. 14 and 23.  
 Over mountainous land.  
 Descend.  
 23.00 Enter gulch 1 ch. wide, course N.  $75^{\circ}$  W.  
 28.00 Leave gulch, same course.  
 40.08 Set a limestone 18 x 10 x 5 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 3ft. base, 2ft. high, N. of  
 cor. Pits impracticable.  
 44.00 Ascend.  
 55.00 Ridge brs. SE and NW.  
 Descend.  
 64.00 Bottom of ridge.  
 80.16 The cor. of secs. 14. 15. 22 and 23.  
 Land, mountainous.  
 Soil, 4th rate.  
 No timber.  
 Mountainous land, exceptionally difficult to survey,  
 80.16 chs.

July 21, 1908.

July 22; At 7h. 15m., a.m., l.m.t., we set off  $33^{\circ}15'N$   
 on the lat. arc;  $20^{\circ}19'N$  on the decl. arc; and  
 determine a true meridian with the solar, at the  
 cor. of secs. 14. 15. 22 and 23.

Thence we run  
 N.  $0^{\circ}1'$  W. bet. secs. 14 and 15.  
 Over mountainous land.  
 Descend.  
 .40 Gulch 10 lks. wide, course W.  
 Ascend.  
 3.25 Descend.  
 6.20 Gulch 25 lks. wide, course W.  
 Ascend.  
 12.00 Ascend abruptly.  
 19.50 West end of ridge, brs. SE.  
 Descend.  
 33.00 Descend abruptly.  
 37.50 Gulch 20 lks. wide, course W.  
 40.00 Set a Quartz stone 20 x 10 x 6 ins. 15 ins. in the  
 ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on W. face, and  
 raise a mound of stone 3ft. base, 2ft. high, W.  
 of cor. Pits impracticable.  
 47.00 Gulch 20 lks. wide, course W.  
 Ascend.  
 61.00 Ridge brs. E. and W.  
 Descend.  
 78.15 Gulch 15 lks. wide, course W.  
 Ascend.  
 78.80 Road, Pinal to mining camp, brs. E. and W.  
 79.40 Rock bluff facing W.  
 Descend. abruptly.  
 80.00 Bottom of bluff.  
 Set a Quartz stone 18 x 10 x 5 ins., 12 ins. in the  
 ground, for cor. of secs. 10. 11. 14 and 15, marked  
 with 4 notches on S. and 2 notches on E. edge, and  
 raise a mound of stone 3ft. base, 2ft. high, W.  
 of cor. Pits impracticable.  
 Land, mountainous,  
 Soil, 4th rate.  
 No timber.  
 Mountainous land, exceptionally difficult to survey,  
 80.00 chs.



Subdivisions of T. 2 S., R. 12 E.

Chains.	S.89°58'E. on a random line, bet. secs. 11 and 14
40.00	Set temp. 1/4 sec. cor.
80.06	Intersect N. and S. line, 7 lks. S. of the cor. of secs. 11, 12, 13 and 14. Thence I run S.89°59' W. on a true line, bet. secs. 11 and 14. Over mountainous land. Descend.
2.10	Gulch 50 lks. wide, course SW. Ascend.
6.00	Ridge, bears SE. and NW. Descend.
12.75	Gulch 30 lks. wide, course N.75°W. Ascend.
17.60	Road, Superior to Bell Springs, bears SE. and NW. Descend.
40.03	Set a granite stone 24x10x6 ins., 18 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone 3 ft. base, 2 ft. high N. of cor. pits impracticable
41.50	Gulch 20 lks. wide, course NW. Ascend.
56.00	Ridge, bears SE. and NW. Descend.
80.06	The cor. of secs. 10, 11, 14 and 15. Land mountainous. Soil 5d and 4th rate. No timber. Mountainous land, exceptionally difficult to survey, 80.06 chs.
N. 10°1'W., bet. secs. 10 and 11	
	Over mountainous land, Ascend.
8.00	Ridge, bears E. and W. Descend.
32.40	Gulch 30 lks. wide, course N.75°W. and road. Ascend.
40.00	Set a granite stone 18x8x6 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone 3 ft. base, 2 ft. high W. of cor., pits impracticable
60.00	Ridge bears E. and W. Descend.
80.00	Set a granite stone 18x12x5 ins., 12 ins. in the ground, for cor. of secs. 2, 5, 10 and 11, marked with 5 notches on S. and 2 notches on E. edge; and raise a mound of stone 3 ft. base, 2 ft. high W. of cor., pits impracticable. Land mountainous. Soil 4th rate. No timber. Mountainous land, exceptionally difficult to survey, July 22, 1908. 80.00 chs.
<p>July 23; At 8h, a.m., l.m.t., I set off 33°16' on the lat. arc; 20°6' N. on the decl. arc and determine a meridian with the solar at the cor. of secs. 2, 3, 10 and 11 and run thence N.89°59'E., on a random line, bet. secs. 2 and 11.</p>	
40.00	Set temp. 1/4 sec. cor.
80.22	Intersect N. and S. line, 16 lks. S. of the cor. of secs. 1, 2, 11 and 12. Thence I run S.89°52'W., on a true line bet. secs. 2 and 11, Over mountainous land. Descend.
23.70	Gulch 30 lks. wide, course N.70°W. Ascend.
40.11	Set a limestone 18x10x8 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone 3 ft. base, 2 ft. high, N. of cor. pits impracticable.



Subdivisions of T 2 S., R 12 E.

Chains.

Soil, 3rd and 4th rate.  
 No timber.  
 Mountainous land, exceptionally difficult to survey, 78.75 chs.  
 Connecting line, exceptionally difficult to survey, 7.78 chs.

March 1, 1910.

1908  
 July 24; At 7h.a.m., 1.m.t., we set off 33° 12' N on the lat. arc; 19° 54' on the decl. arc; and determine a true meridian with the solar, at the cor. of secs. 3. 4. 33 and 34, on the S. bdy. of the Tp. recently established by us.  
 Thence we run  
 N. 0° 2' W. bet. secs. 33 and 34.  
 Over mountainous land.  
 Descend.  
 4.50 Gulch 10 lks. wide, course E.  
 Ascend.  
 13.40 Top of rock bluff, brs. E. and W.  
 Descend very abruptly.  
 18.00 Ascend over rock bluffs.  
 22.00 Rock ridge, brs E. and W.  
 22.45 Descend perpendicular bluff 50 ft. high.  
 A rock butte 200 ft. high, brs. E. 4 chs.  
 31.50 West fork Wood Canen, 50 lks. wide, course NE.  
 Ascend.  
 40.00 Top of trachite reef, 15 ft. high, we chisel a cross at cor. point for  $\frac{1}{4}$  sec. cor. and mark  $\frac{1}{4}$  W. of cross, raise a mound of stone 2 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.  
 40.15 Perpendicular bluff, 15 ft. high, brs. E. and W.  
 Descend.  
 71.10 Bottom Wood Canen, 60 lks. wide, Course N. 10° W.  
 72.25 Ascend.  
 80.00 Set a trachite stone 24 x 8 x 6 ins., 18 ins. in the ground, for cor. of secs. 27. 28. 33 and 34, marked with 1 notch on S. and 3 notches on E. edge, and raise a mound of stone 3ft. base, 2ft. high, W. of cor. Pits impracticable.  
 Land, mountainous.  
 Soil, 4th rate.  
 No timber.  
 Mountainous land, exceptionally difficult to survey, 80.00 chs.

40.00 East on a random line bet. secs. 27 and 34.  
 Set temp.  $\frac{1}{4}$  sec. cor.  
 80.28 Intersect N. and S. line, 12 lks. N. of the cor. of secs. 26. 27. 33 and 34.  
 Thence we run  
 N. 89° 55' W. on a true line bet. secs. 27 and 34.  
 Over mountainous land.  
 8.00 Ascend steep high mountain.  
 20.00 Top of abrupt ascent.  
 40.14 A rock in place, 4 x 5 x 3 ft. above ground, we chisel a cross at the cor. point, for  $\frac{1}{4}$  sec. cor., and mark  $\frac{1}{4}$  W. of cross, and raise a mound of stone 3ft. base, 2ft. high, N. of cor. Pits impracticable.  
 55.00 Descend very abruptly.  
 80.28 The cor. of secs. 27. 28. 33 and 34.  
 Land, mountainous.  
 Soil, 4th rate.

Chains.	<p>No timber. Mountainous land, exceptionally difficult to survey, 80.28 chs.</p>
	<p>July 24, 1908.</p>
31.00	<p>July 25; At 7h.10m. a.m., l.m.t., we set off <math>33^{\circ}13'</math> on the lat. arc; <math>19^{\circ}42'</math> N. on the decl. arc; and determine a true meridian with the solar, at the cor. of secs. 27. 28. 33 and 34.</p>
40.00	<p>Thence we run N. <math>0^{\circ}2'</math> W. bet. secs. 27 and 28 Over mountainous land. Descend. Falls on a bed rock of great area, sloping NW., we chisel a cross at cor. point, for <math>\frac{1}{4}</math> sec. cor., and mark <math>\frac{1}{4}</math> W. of cross; raise a mound of stone 4ft. base, 3ft. high, W. of cor., Pits impracticable.</p>
39.50	<p>Gulch 20 lks. wide, course NW.</p>
80.00	<p>Ascend. Set a malpais stone 18 x 10 x 8 ins., 12 ins. in the ground, for cor. of secs. 21. 22. 27 and 28, marked with 2 notches on S., and 3 notches on E. edge, and raise a mound of stone 4ft. base, 3ft. high, W. of cor. Pits impracticable.</p>
	<p>Land, mountainous. Soil, 4th rate. No timber. Mountainous land, exceptionally difficult to survey, 80.00 chs.</p>
40.00	<p>S. <math>89^{\circ}55'</math> E. on a random line bet. secs. 22 and 27.</p>
79.84	<p>Set temp. <math>\frac{1}{4}</math> sec. cor. Intersect N. and S. line, 16 lks. S. of the cor. of secs. 22. 23. 26 and 27.</p>
	<p>Thence we run S. <math>89^{\circ}58'</math> W. on a true line, bet. secs. 22 and 27. Over mountainous land.</p>
8.00	<p>Descend. Arnett Canon, 75 lks. wide, Course N. <math>20^{\circ}</math> W.</p>
11.00	<p>Ascend.</p>
23.00	<p>Descend</p>
30.00	<p>Gulch 25 lks. wide, course NW.</p>
31.00	<p>Ascend.</p>
32.00	<p>Stone fence, brs. N. and S., enter pasture.</p>
39.92	<p>Set a trachite stone 24 x 12 x 6 ins., 18 ins. in the ground, for <math>\frac{1}{4}</math> sec. cor., marked <math>\frac{1}{4}</math> on N. face, and raise a mound of stone 4ft. base, 3ft. high, W. of cor. Pits impracticable.</p>
71.00	<p>Ridge brs. S. and NW. Stone fence brs. SE and NW., leave pasture.</p>
79.84	<p>Descend. The cor. of secs. 21. 22. 27 and 28. Land, mountainous. Soil, 4th rate. No timber. Mountainous land, exceptionally difficult to survey, 79.84 chs.</p>
	<p>JULY 25, 1908.</p>
	<p>July 26; At 7h. a.m.; l.m.t., we set off <math>33^{\circ}14'</math> on the lat. arc; <math>19^{\circ}29'</math> N. on the decl. arc; and determine a true meridian with the solar, at the cor. of secs. 21. 22. 27 and 28.</p>

Subdivisions of T. 2 S., R 12 E.

Chains.	<p>Thence we run N. 0°2' W. bet. secs. 21 and 22. Over mountainous land. Ascend.</p>
4.25	<p>Top of rock bluff 30 ft. high, brs. E. and W. Enter pasture Descend.</p>
36.00	<p>Top of rock bluff 100 ft. high, brs. E. and W. Descend, leave pasture.</p>
40.00	<p>Set a malpais stone 20x10x6 ins. 15 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone 3 ft. base 2 ft. high W. of cor. Pits impracticable.</p>
40.50	<p>Wood canon, 75 lks. wide, course NE.</p>
41.50	<p>Ascend.</p>
38.00	<p>Ridge, brs. NE. and SW. Descend.</p>
78.00	<p>Gulch 20 lks. wide, course N. 25°E. Ascend.</p>
80.00	<p>Set a limestone 24x12x10 ins. 18 ins. in the ground, for cor. of secs. 15, 16, 21 and 22, marked 2 S on NE. and 12 E on SE face, with 3 notches on S. and E. edges, and raise a mound of stone 3 ft. base, 2 ft. high W. of cor. Pits impracticable.</p>
	<p>Land mountainous. Soil 4th. rate. No timber. Mountainous land, exceptionally difficult to survey. 80.00 Chs.</p>
40.00	<p>N. 89°58' E. on a random line bet. secs. 15 and 22. Set temporary 1/4 sec. cor.</p>
79.76	<p>Intersect N. and S. line, 23 lks. S. of the cor. of secs. 14, 15, 22 and 23.</p>
	<p>Thence we run S. 89°48' W. on a true line bet. secs. 15 and 22. Descend.</p>
29.25	<p>Gulch 25 lks. wide, course SW.</p>
39.88	<p>Set a granite stone 18x6x4 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face, dig pits 18x18x12 ins. east and west of cor., three ft. dist., and raise a mound of earth and stone 3 1/2 ft. base, 2 1/2 ft. high N. of cor.</p>
41.25	<p>Road, Superior to Ray, brs. N. and S.</p>
70.30	<p>Arnett creek 75. lks. wide, course N.</p>
72.00	<p>Ascend.</p>
75.00	<p>Ridge brs. NE. and SW. Descend.</p>
78.55	<p>Gulch 15 lks. wide, course NE.</p>
79.76	<p>The cor. of secs. 15, 16, 21 and 22. Land mountainous. Soil 3rd. rate. Timber, scattering mesquite, and sycamore along the creek. Mountainous land, exceptionally difficult to survey. 79.76. chs.</p>
	<p>July 26, 1908.</p>

March 1, 1910.

AT my camp, near the cor. of secs 15, 16, 21 and 22, Latitude 33°15' N. Longitude 111°7' W., I set off 33°15' on the lat. arc; 7°36' S. on the decl. arc; and determine a true meridian with the solar, at 4h 0m p.m., lmt. and mark a point thereof, on a stone firmly set in the ground, 5 chs. N. of my station.

At 8h 47m, p.m., l.m.t., I observe Polaris at western elongation, in accordance with instructions in the Manual, and mark a point in the line thus determined on a peg driven in the ground, 5 chs. N. of my station.  
March 1, 1910.

March 2: 7h 50m a.m., l.m.t., I lay off the azimuth of Polaris, 1°24' to the east, and mark the true meridian thus determined, by cutting a small groove in the stone set March 1, on which the meridian falls 0.3 inches east of the mark determined by the solar.

At 8h 0m a.m., l.m.t., I set off 33°15' on the lat. arc; 7°21' S. on the decl. arc, and determine a true meridian with the solar and mark a point thereof by cutting a small groove in the stone already set 5 chs. N. of my station, this mark falls 0.5 inches east of the meridian established by Polaris observation;

The solar apparatus, by a.m. and p.m. observations defines positions for meridians respectively about 0'16" west and 0'26" east of the meridian established by the Polaris observation; therefore I conclude that the adjustments of the instrument are satisfactory.

The instrument indicates a magnetic declination of 13°30' E.

N. 0°2' W. bet. secs. 15 and 16.  
Over mountainous land.

- Ascend along east slope.
- 3.00 Descend.
- 23.00 Arnett Creek, 75 lks. wide, course NW.
- 24.00 Ascend.
- 29.50 Ridge, bears SE. and NW.
- Descend.
- 40.00 Set a quartzite stone 16x8x4 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, dig pits 18x18x12 ins. N. and S. of stone 3 ft. dist. and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high W. of cor.
- 55.00 Road, Superior to Ray, bears SE. and NW.
- 80.00 Set a quartzite stone 18x6x6 ins. 12 ins. in the ground, for cor. of secs. 9, 10, 15 and 16, marked with 4 notches on S. and 3 notches on E. edge, dig pits 18x18x12 ins. in each sec. 5 1/2 ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.
- Land mountainous and rolling.
- Soil 3d and 4th rate.
- Timber scattering mesquite, and sycamore along Arnett Creek.
- Mountainous land, exceptionally difficult to survey
- 80.00

Chains.	At the cor. of secs. 9, 10, 15 and 16' I set off 7°18' S. on the decl. arc; and at noon observe the Sun on the meridian, the resulting lat. is 33°16' N.
	N.89°48' E., on a random line, bet. secs. 10 and 15.
40.00	set. temp. 1/4 sec. cor.
79.80	Intersect N. and S. line 18 lks. N. of the cor. of secs. 10, 11, 14 and 15. Thence I run S.89°56' W., on a true line, bet. secs. 10 and 15. Over mountainous land.
6.00	Road NW and SE.; descend.
14.00	Ascend.
33.00	Descend steep hill.
39.90	Set a limestone 18x8x6 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone 3 ft. base, 2 ft. high N. of cor. Pits impracticable.
44.00	Bottom bears NE. and SW.
79.80	<b>The cor. of secs. 9, 10, 15 and 16.</b>  Land mountainous and rolling. Soil 3d and 4th rate. Timber scattering mesquite and paloverde. Mountainous land, exceptionally difficult to survey, 79.80 chs. March 2, 1910.
	March 3; At the above cor. At 7h 40m, a.m., l.m.t., I set off 33°16' N on the lat. arc; 6°58' S. on the decl. arc, and determine a meridian with the solar, and run thence N.0°2' W. bet. secs. 9 and 10. Over rolling and broken land, through dense undergrowth.
1.75	Wash, 50 lks. wide, course W.
40.00	Set a quartz stone 18x8x6 ins, 18 ins. in the ground, for 1/4 sec. cor. marked 1/4 on W face and raise a mound of stone 3 ft. base, 2 ft. high W. of the cor. Pits impracticable.
43.30	Road, Superior to Ray, bears N.10°E. and S.10°W.
44.50	Road, Pinal to mining camp, bears E and W.
49.00	Road, Superior to Ray, bears SE. and NW.
54.00	Gulch, 40 lks. wide, course W.
58.15	Road, Superior to Ray, bears NE. and SW.
80.00	Set a granite stone, 18x8x6 ins., 12 ins. in the ground, for cor. of secs. 3, 4, 9 and 10, marked with 5 notches on S. and 3 notches on E. edge, and raise a mound of stone 3 1/2-ft. base 2 1/2 ft. high W. of cor. Pits impracticable.
	Land rolling. Soil 2d and 3d rate. Timber scattering mesquite and Paloverde. Land covered with dense undergrowth of mesquite and paloverde and numerous thorn bushes, and exceptionally difficult to survey, 80.00 chs.

Chains.

From the cor. of secs. 3, 4, 9 and 10,  
I run thence  
N. 89° 56' E. on a random line bet. secs. 3 and 10.  
40.00 Set temp 1/4 sec. cor.  
79.74 Intersect N. and S. line 7 lks. N. of the cor. of secs.  
2, 3, 10 and 11.  
Thence we run  
S. 89° 59' W. on a true line bet. secs. 3 and 10.  
Over rolling land.  
Descend.  
39.87 Set a quartzite stone 16x8x4 ins. 12 ins. in the ground  
for 1/4 sec. cor., marked 1/4 on N. face, and raise a  
mound of stone 3ft. base 2ft. high, N. of cor.  
Pits impracticable.  
66.15 Road, Superior to Ray, bears N. 20° E. and S. 20° W.  
79.74 The cor. of secs. 3, 4, 9 and 10.  
Land, east end mountainous, west end rolling.  
Soil, 3rd rate.  
Timber, mesquite and paloverde.  
Land covered with dense undergrowth, exceptionally  
difficult to survey. 79.74 chs.

N. 0° 2' W. bet. secs. 3 and 4.  
Over mountainous land.  
34.20 Queen Creek, 1 ch. wide, course S. 75° W.  
39.30 Road, Florence to Superior, bears N. 60° E. and S. 60° W.  
40.00 Set a brachite stone 18x10x8 ins., 12 ins. in the ground,  
for 1/4 sec. cor., marked 1/4 on W. face; dig pits 18x18x  
12 ins., N. and S. of stone, 3ft. dist., and raise a  
mound of earth 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.  
46.00 Ascend.  
48.40 Frame house, Brown owner, bears S. 54° W. 12 chs.  
49.00 Ridge, bears NE. and SW.  
Descend.  
49.45 Telephone line, Florence to Superior, bears N. 75° E. and  
S. 75° W.  
68.30 Gulch, 30 lks. wide, course SW.  
Ascend.  
78.80 Intersect N. bdy. of the Tp., 13.63 chs. W. of the cor.  
of secs. 34 and 35, T. 2 S., R. 12 E.  
Set a Malpais stone 20x10x6 ins., 15 ins. in the ground,  
for closing cor. of secs. 3 and 4, marked CC on S. with  
3 grooves on E. and W. faces, and raise a mound of stone  
3ft. base 2ft. high S. of cor. Pits impracticable.  
Land, mountainous.  
Soil, 2nd and 3rd rate.  
Timber, mesquite and paloverde.  
Mountainous land, covered with dense undergrowth,  
exceptionally difficult to survey. 78.80 chs.  
Connecting line " " 13.63 chs.  
March 3, 1910.



Chains.

July 29; 1908. At 7h 10m a.m., l.m.t., we set off 33°12' N on the lat. arc; 18°47' N. on the decl. arc; and determine a true meridian with the solar, at the cor. of secs. 4, 5, 32 and 33. on the S. bdy. of the Tp.

Thence we run N 0°2' W. bet. secs. 32 and 33. Over very mountainous land.

2.50 Ascend. Bluff, 100 ft. high, bears E. and W.

3.00 Ascend. Ridge, bears E. and W. Descend abruptly.

22.00 Bottom of canon, 30 lks. wide, course S. 75° E. Ascend abruptly.

40.00 Set a limestone 24x12x10 ins., 18 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 4ft. base 2ft. high, W. of cor. Pits impracticable.

42.60 Bluff, 200 ft. high, bears SE. and NW.

43.75 Top of bluff.

48.00 Ridge, bears E. and W. Descend.

58.15 Gulch, 20 lks. wide, course E. Ascend.

77.00 Ridge, bears E. and W.

80.00 Set a trachite stone 18x12x6 ins., 12 ins. in the ground, for cor. of secs. 28, 29, 32 and 33, marked with 1 notch on S. and 4 notches on E. edge, and raise a mound of stone 4ft. base, 2ft. high W. of cor. Pits impracticable.

Land, mountainous.

Soil, 4th rate.

No timber.

Mountainous land, exceptiona ly difficult to survey.

80.00 chs.

East on a random line bet. secs. 28 and 33.

40.00 Set temp. 1/4 sec. cor.

80.22 Intersect N. and S. line, 21 lks. N. of the cor. of secs. 27, 28, 33 and 34.

Thence we run

N. 89°51' W. on a true line bet. secs. 28 and 33.

Over very mountainous land.

Descend.

1.50 Wood Conon, 1 ch. wide, course N. 15° W.

3.00 Ascend rocky ridge.

10.00 Descend.

22.00 Ascend.

31.00 Ascend steep mountain.

40.11 Set a trachite stone 20x8x6 ins., 15 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone 3ft. base 2ft. high N. of cor. Pits impracticable.

56.00 Top of steep mountain, bears NE. and SW.

Descend gradually.

80.22 The cor. of secs. 28, 29, 33 and 34.

Land, mountainous.

Soil, 4th rate.

No timber.

Mountainous land, exceptionally difficult to survey,

80.22 chs.

July 29, 1908.

Subdivisions of T. 2 S., R 12 E.

Chains.	<p>July 30; At 8h.a.m., 1.m.t., we set off <math>33^{\circ} 13' N</math> on the lat. arc; <math>18^{\circ} 33' N</math> on the decl. arc; and determine a true meridian with the solar, at the cor. of secs. 28. 29. 32 and 33.; thence we run <math>N. 0^{\circ} 2' W.</math> bet. secs. 28 and 29.  Over very mountainous land.  2.00 Descend.  18.00 Gulch 25 lks. wide, course E.  Ascend very abruptly.  29.00 Ridge brs. E. and W.  Descend.  40.00 Set a trachite stone 24 x 10 x 6 ins., 18 ins. in the ground, for <math>\frac{1}{4}</math> sec. cor., marked <math>\frac{1}{4}</math> on W. face, and raise a mound of stone 3ft. base, 2ft. high, W. of cor. Pits impracticable.  40.20 Descend very abruptly.  59.80 Gulch 10 lks. wide, course <math>N. 60^{\circ} E.</math>  Ascend.  65.00 Ridge brs. E. and W.  Descend very abruptly.  80.00 Set a sandstone 20 x 10 x 6 ins., 15 ins. in the ground, for cor. of secs. 20. 21. 28 and 29, marked with 2 notches on S. and 4 notches on E. edge, and raise a mound of stone 4ft. base, 2ft. high, W. of cor. Pits impracticable.  Land very mountainous.  Soil, 4th rate.  No timber.  Mountainous land, exceptionally difficult to survey,  80.00 chs.</p>
40.00 79.96  18.50 39.98  45.00 54.00 58.50 65.00 73.50 79.96	<p>S. <math>89^{\circ} 51' E.</math> on a random line bet. secs. 21 and 28.  Set temp <math>\frac{1}{4}</math> sec cor.  Intersect N. and S. line, 44 lks. S. of the cor. of secs. 21. 22. 27 and 28.  Thence we run  S. <math>89^{\circ} 50' W.</math> on a true line bet. secs. 21 and 28.  Descend.  18.50 Wood Canon 1 ch. wide, course <math>N. 15^{\circ} W.</math>  Ascend.  39.98 Set a trachite stone 24 x 16 x 8 ins., 18 ins. in the ground, for <math>\frac{1}{4}</math> sec. cor., marked <math>\frac{1}{4}</math> on N. face, and raise a mound of stone, 3ft. base, 2ft. high, N. of cor.  Pits impracticable.  45.00 Ascend very abruptly.  54.00 Ridge brs. N. and S.  Descend very abruptly.  58.50 Canon, 40 lks. wide, course NE.  Ascend. over bluffs.  65.00 Ridge brs. N. and S.  Descend very abruptly.  73.50 Gulch 25 lks. wide, course SE.  Ascend.  79.96 The cor. of secs. 20. 21. 28 and 29.  Land very mountainous.  Soil, 4th rate.  No timber.  Mountainous land, exceptionally difficult to survey,  79.96 chs.</p>
	<p>July 30, 1908.</p>

Chains.	<p>July 31; At 7h 15m. a.m., l.m.t., we set off 33 14' N on the lat. arc; 18° 18' N. on the decl arc; and determine a true meridian with the solar, at the cor. of secs. 20, 21, 28 and 29.</p> <p>Thence we run N. 0° 2' W. bet secs. 20 and 21. Over very mountainous land. Descend.</p> <p>2.00 Gulch 15 lks. wide, course S. 60° E. Ascend steep ridge.</p> <p>10.50 Top of ascent, thence along E. slope of steep ridge.</p> <p>23.00 Descend very abruptly.</p> <p>32.10 Canon, 40 lks. wide, course E. Ascend.</p> <p>40.00 Set a limestone 16 x 8 x 6 ins., 12 ins. in the ground, for <math>\frac{1}{4}</math> sec. cor., marked <math>\frac{1}{4}</math> on W. face, and raise a mound of stone, 3ft. base, 2ft. high, W. of cor. Pits impracticable.</p> <p>47.00 Ridge brs. NE and SW. Descend.</p> <p>53.20 Gulch, 40 lks. wide, course E. Ascend.</p> <p>61.00 Ridge brs. E. and W. Descend.</p> <p>71,30 Canon wall 200 ft. high, brs. E. and W. Descend.</p> <p>77.00 Bottom of Canon, 1 ch. wide, course N. 75° E. Ascend.</p> <p>80.00 Set a trachite stone 24 x 12 x 5 ins., 18 ins. in the ground, for cor. of secs. 16. 17. 20 and 21, marked with 3 notches on S., and 4 notches on E. edge, and raise a mound of stone 4ft. base, 2ft. high, W. of cor. Pits impracticable.</p> <p>Land very mountainous. Soil, 4th rate. No timber. Mountainous land, exceptionally difficult to survey, 80.00 chs.</p>
40.00	N. 89° 50' E. on a random line bet. secs. 16 and 21. Set temp. $\frac{1}{4}$ sec. cor.
80.12	Intersect N. and S. line, 7lks. S. of the cor. of secs. 15. 16. 21 and 22. Thence we run S. 89° 47' W. on a true line bet. secs. 16 and 21. Over mountainous land. Ascend.
14.00	Ridge slopes NE. Descend abruptly.
22.70	Canon 50 lks. wide, course N. Ascend abruptly.
31.50	Ridge brs. N. and S. Descend abruptly.
40.06	Set a limestone 18 x 12 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 3ft. base, 2ft. high, N. of cor. Pits impracticable.
44.00	Gulch 25 lks. wide, course N. 30 E. Ascend abruptly.
61.00	Ridge slopes N. Descend abruptly,
76.50	Canyon, 100 ch. wide course N. 75° E.
80.12	The cor. of ses. 16. 17. 20 and 21. Land very mountainous. Soil, 4th rate. No timber. Mountainous land, exceptionally difficult to survey, 80.12 chs. July 31, 1908.

Chains.

August 21, 1911; At 7h 10m, a.m., l.m.T., I set off  
 $33^{\circ}15'W$  on the lat. arc;  $12^{\circ}24' N.$  on the decl. arc, and  
 determine a meridian with the solar at the cor. of secs.  
 16, 17, 20 and 21, thence I run  
 $N.0^{\circ}2'W.$ , bet. secs. 16 and 17.

Over mountainous land.

- 0.20 Ascend abruptly.  
 7.50 Ridge bears NE.  
 Descend along E. slope.  
 36.20 Gulch, 20 lks. wide, course NE.  
 Ascend abruptly.  
 40.00 Set a trachite stone 18x6x4 ins., 12 ins. in the ground  
 for  $1/4$  sec. cor., marked  $1/4$  on W. face, and raise a  
 mound of stone 3 ft. base, 2 ft. high W. of cor.  
 Pits impracticable.  
 The original  $1/4$  sec. cor., which I destroy, bears  
 $S.75^{\circ}E.$  19 lks. dist.  
 47.50 Descend.  
 58.75 Top of canon wall, 150 ft. high, bears  $S.60^{\circ}E.$  &  $N.60^{\circ}W.$   
 Descend.  
 60.00 Bottom of Arnett Canon, 2 chs. wide, course  $N.60^{\circ}W.$   
 62.00 Ascend abruptly.  
 80.00 Set a malpais stone, 22x8x6 ins. 16 ins. in the ground,  
 for cor. of secs. 8, 9, 16 and 17, marked with 4 notches  
 on S. and E. edges, and raise a mound of stone 4 ft. base  
 2 ft. high W. of cor. Pits impracticable.  
 The original sec. cor. which I destroy, bears  $S.75^{\circ}E.$   
 38 lks. dist.  
 Land very mountainous.  
 Soil 4th rate.  
 No timber.  
 Mountainous land, exceptionally difficult to survey.  
 80.00 Chs.

$N. 89^{\circ}47' E.$ , on a random line bet. secs. 9 and 16.

- 40.00 Set temp.  $1/4$  sec. cor.  
 79.60 Intersect N. and S. line 4 lks. S. of cor. of secs.  
 9, 10, 15 and 16. thence I run  
 $S. 89^{\circ}45' W.$ , on a true line, bet. secs. 9 and 16.  
 Over mountainous land.  
 6.50 Road, Superior to Ray, bears N. and S.  
 18.00 Ascend.  
 26.00 Ridge, bears SE. and NW.  
 Descend.  
 33.00 Ascend.  
 38.00 Ridge, bears SE. and NW.  
 Descend.  
 39.80 Set a trachite stone 20x12x8 ins., 15 ins. in the ground,  
 for  $1/4$  sec. cor., marked  $1/4$  on N. face, and raise a  
 mound of stone 3 ft. base, 2 ft. high N. of cor.  
 Pits impracticable.  
 The original  $1/4$  sec. cor., which I destroy, bears  
 $S.76^{\circ}E.$  19 lks. dist.  
 43.00 Ascend.  
 48.00 Ridge, bears N. and S.  
 58.60 GULCH 30 LKS. WIDE, COURSE S. ASCEND.  
 79.60 The cor. of secs. 8, 9, 16 and 17.  
 Land mountainous.  
 Soil 3d rate.  
 Timber mesquite and paloverde.  
 Mountainous land, exceptionally difficult to survey,  
 79.60 Chs.

BOOK 2228

Chains.

August 21; I set off 12°19' N. on the decl. arc, and at noon observe the Sun on the meridian, the resulting latitude is 33°16' N

5.00 Over mountainous land.  
 40.00 Descend along E. slope.  
 Set a volcanic stone 24x10x6 ins. 12 inches in the ground, surrounded by a mound of stone, marked  $\frac{1}{4}$  on west face, and raise a mound of stone 3ft. base 2 $\frac{1}{2}$  ft. high W. of corner. Pits impracticable.  
 The original 1/4 sec. cor., which I destroy, bears S. 74° E. 19 lks. dist.  
 68.60 Queen Creek, 1 ch. wide, course W.  
 Ascend.  
 76.30 Road, Pinal to mining camp; bears E. and W.  
 80.00 Set a granite stone, 18x8x6 ins., 12 ins. in the ground for cor. of secs. 4, 5, 8 and 9, marked with 5 notches on S. and 4 notches on E. edges and raise a mound of stone 3 ft. base 2 $\frac{1}{2}$  ft. high W. of cor.  
 Pits impracticable.  
 The original sec. cor., which I destroy, bears S. 73° E. 24 lks. dist.  
 Land mountainous.  
 Soil 2d, 3d, and 4th rate.  
 Timber mesquite and paloverde, cottonwood and willow along Queen Creek.  
 Mountainous land, exceptionally difficult to survey,  
 80.00 Chs.

August 21, 1911.

August 22 1911; At 7h, a.m., l.m.t., I set off 33°17' N on the lat. arc; 12° 4' N. on the decl. arc, and determine a meridian with the solar, at the cor. of secs. 4, 5, 8 and 9, and run thence  
 N. 89° 45' E., on a random line, bet. secs. 4 and 9.  
 40.00 Point falls in Queen Creek.  
 40.40 The witness 1/4 sec. cor. bears S. 7 lks. dist.  
 79.56 Intersect N. and S. line 14 lks. N. of cor. of secs. 3, 4, 9 and 10. thence I run  
 S. 89° 51' W., on a true line, bet. secs. 4 and 9.  
 Over broken land, through dense undergrowth.  
 13.10 Wire fence, bears N. and S. enter pasture, Bellamy owner.  
 39.16 A granite stone 6x12x8 ins. above ground, firmly set, for witness 1/4 sec. cor., marked w C 1/4 on N. face, with a mound of stone 3 ft. base 2 ft. high N. of cor.  
 39.78 1/4 cor. POINT FALLS IN WASH. Pits impracticable.  
 39.25 Queen Creek, 150 lks. wide, course S. 25° W.  
 41.00 Ascend.  
 51.00 Ridge, and wire fence, bears N. and S. Leave pasture.  
 Descend.  
 79.56 The cor. of secs. 4, 5, 8 and 9.  
 Land broken.  
 Soil 2d and 3d rate.  
 Timber mesquite and paloverde, ash and cottonwood along Queen Creek.  
 Mountain us land, covered with dense undergrowth, exceptionally difficult to survey, 79.56 Chs.

## Subdivision of Township 2 South Range 12 East.

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Chains.

N.0°2'W., bet. secs. 4 and 5.  
 Over rolling land, covered with dense undergrowth.  
 Ascend.  
 10.00 Descend.  
 21.00 Gulch, 30 lks. wide, course SW.  
 Ascend.  
 23.85 Road, Florence to Superior, bears N.60°E. and S.60°W.  
 35.12 Telephone line, Florence to Superior, bears NE. and SW.  
 35.50 Descend.  
 37.75 Wash, 50 lks. wide, course S.60°W.  
 38.25 Ascend.  
 40.00 Set a limestone 16x10x8 ins., 12 ins. in the ground for

Chains.	1/4 sec. cor. marked 1/4 on W. face, and raise a mound of stone 3 ft. base, 2 ft. high W. of cor. Pits impracticable.
44.00	Ridge, bears NE. and SW. Descend.
70.00	Gulch, 10 lks. wide, course SW. Ascend.
79.28	Intersect the N. bdy. of the Tp. 13.76 chs. W. of cor. of secs. 33 and 34, T. 1 S. R. 12 E set a malpais stone 24x12x6 ins. 18 ins. in the ground, for closing cor. of secs. 4 and 5, marked C C on S., with 4 grooves on E, and 2 grooves on W. face, and raise a mound of stone 4 ft. base, 2 ft. high S. of cor., from which Station L 118, Superior railway survey bears S. 54 30' E. 48 lks. dist. Pits impracticable.
	Land broken and covered with dense undergrowth. Soil 2d and 3d rate. No timber. Mountainous land, exceptionally difficult to survey, 79.28 chs. Connecting, line, " " 13.76 "
	Aug. 22, 1911.
	August 3, 1908; At 8h 10m, a.m., l.m.t., I set off 33°12' N on the lat. arc; 17°32' N on the decl arc, and determine a meridian with the solar, at the cor. of secs. 5, 6, 31 and 32, on the S. bdy. of the Tp. Thence I run N. 0°3' W. bet. secs. 31 and 32. Over very mountainous land. Descend.
.75	Gulch 10 lks. wide, course E. Ascend.
7.80	Ridge, bears N. 20° E. and S. 20° W. Descend along east slope of steep ridge.
40.00	Set a granite stone, 16x12x8 ins., 12 ins. in the ground for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone 3 ft. base, 2 ft. high W. of the cor. Pits impracticable.
44.00	West fork, Telegraph Canon, 40 lks. wide course NE.
56.00	Telegraph Canon, 50 lks. wide, course N. 10° W.
61.00	Telegraph Canon, 50 lks. wide, course N. 15° W.
68.50	Telegraph Canon, 60 lks. wide, course N. 10° W.
80.00	Set a granite stone 24x8x6 ins., 18 ins. in the ground, for cor. of secs. 29, 30, 31 and 32, marked with 1 notch on S. and 5 notches on E. edge, and raise a mound of stone 4 ft. base, 2 ft. high E. of cor.; the bank of Telegraph Creek being W. of the cor. it is impracticable to place mound W. Pits impracticable. Troughs Spring bears S. 81 W. 5 chs. dist. Land very mountainous. Soil 4th rate. No timber. Mountainous land, exceptionally difficult to survey, 80.00 chs.
40.00	East on a random line bet. secs. 29 and 32. Set temp 1/4 sec. cor.
80.24	Intersect N. and S. line 18 lks. S. of cor. of secs. 28, 29, 32 and 33. Thence we run

Chains.  
 S. 89° 52' W. on a true line, bet. secs. 29 and 32.  
 Over very mountainous land.  
 38.50 Point of mountain ridge, bears NE. and SE.  
 Descend abruptly.  
 40.12 Set a malpais stone 24x12x6 ins., 18 ins. in the ground,  
 for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound  
 of stone 3 ft. base, 2 ft. high N. of the cor.,  
 Pits impracticable.  
 Descend over bluffs.  
 65.00 Gulch, 10 lks. wide, course S. About 1000 ft. below 1/4 cor.  
 Ascend.  
 72.75 Ridge, bears N. and S.  
 Descend very abruptly.  
 80.24 The cor. of secs. 29, 30, 31 and 32.  
 Land very mountainous.  
 Soil 4th rate.  
 No timber.  
 Mountainous land, exceptionally difficult to survey,  
 80.24 chs.

August 3, 1908.

August 4; At 7h 20m, a.m., l.m.t., I set off 33° 13' N  
 on the lat. arc; 17° 16' N on the decl. arc, and determine a  
 meridian with the solar, at the cor. of secs. 29, 30, 31, 32.  
 Thence I run  
 West on a random line, bet. secs. 30 and 31.  
 40.00 Set temp. 1/4 sec. cor.  
 78.70 Intersect W. bdy. of the Tp. 12 lks. N. of the cor. of  
 secs. 25, 30, 31 and 36.  
 Thence I run  
 N. 89° 55' E. on a true line bet. secs. 30 and 31.  
 Over very mountainous land.  
 Ascend abruptly.  
 11.50 High ridge, bears N. and S.  
 Descend.  
 38.70 Set a granite stone, 18x6x6 ins., 12 ins. in the ground,  
 for 1/4 sec. cor., marked 1/4 on N. face, and raise a  
 mound of stone 3 ft. base, 2 ft. high N. of the cor.  
 Pits impracticable.  
 76.75 Gulch, 15 lks. wide, course NE.  
 78.00 Telegraph Creek, 60 lks. wide, course N. 5° E.  
 78.60 Ascend.  
 78.70 The cor. of secs. 29, 30, 31 and 32.  
 Land very mountainous.  
 Soil 4th rate.  
 No timber.  
 Mountainous land, exceptionally difficult to survey,  
 78.70 chs.

N. 0° 3' W. bet. secs. 29 and 30.  
 Over very mountainous land.  
 Descend.  
 0.10 Enter Telegraph Creek, course N. 5° E.  
 3.15 Leave Telegraph Creek.  
 10.60 Enter Telegraph Creek, course N. 10° W.  
 11.75 Leave Telegraph Creek.  
 Ascend rocky slope.



Subdivisions of T. 2 S., R 12 E.

Chains.  
 19.60 Descend very abruptly.  
 22.50 Telegraph Canon, 40 lks. wide, course N. 60° E.  
 22.80 Ascend very abruptly.  
 25.25 Top of ascent, on E. bluff of mountain.  
 Thence along E. slope of steep mountain.  
 40.00 Set a granite stone 18 x 8 x 6 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone 3ft. base, 2ft. high, W. of cor. Pits impracticable.  
 51.10 Gulch 20 lks. wide, course NE.  
 Ascend abruptly.  
 58.50 Top of bluff, facing E.  
 Thence along E. slope of very steep mountain.  
 80.00 Set a granite stone, 24 x 10 x 8 ins., 18 ins. in the ground, for cor. of secs. 19. 20. 29 and 30, marked with 2 notches on S. and 5 notches on E. edges.  
 Raise a mound of stone 4ft. base, 2ft. high, W. of cor. Pits impracticable.  
 Land very mountainous.  
 Soil, 4th rate.  
 No timber.  
 Mountainous land, exceptionally difficult to survey,  
 80.00 chs.

August 4, 1908.

August 5; At 8h. a.m., l.m.t., we set off 33° 14' N. on the lat. arc; 17° 0' N on the decl. arc; and determine a true meridian with the solar, at the cor. of secs. 19. 20. 29 and 30; thence we run N. 89° 52' E. on a random line bet. secs. 20 and 29.  
 40.00 Set temp. 1/4 sec. cor.  
 80.06 Intersect N. and S. line, 12 lks. N. of the cor. of secs. 20. 21. 28 and 29.  
 Thence we run S. 89° 57' W. on a true line bet. secs. 20 and 29.  
 Over mountainous. land.  
 Ascend.  
 10.00 Mountain ridge brs. N. and S.  
 Descend abruptly.  
 18.40 Gulch 25 lks. wide, course NW.  
 Ascend.  
 25.75 Ridge, brs. SE and NW.  
 Descend.  
 40.03 Bedrock in place, sloping S and W., we cut a cross at cor. point, for 1/4 sec. cor., and cut 1/4 W. of cross.  
 Raise a mound of stone 3ft. base, 2ft. high, N. of cor. Pits impracticable.  
 40.30 Descend over bluffs.  
 46.80 Gulch 40 lks. wide, course NW.  
 52.40 Ridge brs. N. and S. Descend abruptly.  
 59.00 Telegraph Canon, 75 lks. wide, course N. 10° E.  
 60.00 Ascend.  
 75.00 Ascend abruptly.  
 80.06 The cor. of secs. 19. 20. 29 and 30.  
 Land. mountainous.  
 Soil, 3rd and 4th rate.  
 No timber.  
 Land mountainous, exceptionally difficult to survey,  
 80.06 chs.

40.00 S. 89° 55' W. on a random line bet. secs. 19 and 30.  
 78.56 Set temp. 1/4 sec. cor.  
 Intersect W. bdy., 24 lks. N. of the cor. of secs. 19. 24. 25 and 30., thence we run N. 89° 45' E. on a true line bet. secs. 19 and 30.

## Chains.

Over very mountainous land.  
Ascend.  
38.56 Set a schist stone 24 x 8 x 6 ins., 18 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on N. face, and raise a mound of stone 3ft. base, 2ft. high, N. of cor. Pits impracticable.  
40.50 Ridge brs NE. and SW.  
Descend.  
52.30 Gulch 20 lks. wide, course SE.  
Ascend.  
67.50 Ridge brs. N. and S.  
Descend steep mountain.  
78.56 The cor. of secs. 19. 20. 29 and 30.  
Land, mountainous.  
Soil, 4th rate.  
No timber.  
Mountainous land, exceptionally difficult to survey,  
78.56 chs.  
August 5, 1908.

August 6; At 7h 50m. a.m., l.m.t., we set off  $33^{\circ} 14' N$  on the lat. arc;  $16^{\circ} 44' N$  on the decl. arc; and determine a true meridian with the solar altat the cor. of secs. 19. 20. 29 and 30.

Thence we run  
N.  $0^{\circ} 3' W$ . bet. secs. 19 and 20.  
Over very mountainous land.  
Ascend abruptly.  
12.00 Descend along E. slope of high ridge.  
40.00 Set a trachite stone 18 x 10 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 3ft. base, 2ft. high, W. of cor. Pits impracticable.  
58.50 Telegraph Canon, 1 ch. wide, course N.  $30^{\circ} W$ .  
80.00 Set a granite stone 18 x 10 x 5 ins., 12 ins. in the ground, for cor. of secs, 17. 18. 19 and 20, marked with 3 notches on S. and 5 notches on E. edge, and dig pits 18 x 18 x 18 ins., in each sec.  $5\frac{1}{2}$  dist., and raise a mound of earth, 4ft. base, 2ft. high, W. of cor.  
Land. mountainous.  
Soil, 4th rate.  
No timber.  
Mountainous land, exceptionally difficult to survey,  
80.00 chs.

N.  $89^{\circ} 57' E$ . on a random line bet. secs. 17 and 20.  
40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
79.90 Intersect N. and S. line, 28 lks. S. of the cor. of secs. 16. 17. 20 and 21.; thence we run  
S.  $89^{\circ} 45' W$ . on a true line bet. secs. 17 and 20.  
Over mountainous land.  
Ascend abruptly.  
13.50 Mountain ridge brs. NE and SW.  
Descend.  
21.00 Top of bluff 50 ft. high, brs. NE and SW.  
Descend.  
27.75 Ascend. abruptly.  
33.00 Top of bluff brs. SE and NW.  
34.50 Descend bluff, brs. NE and SW.  
39.95 Set a malpais stone, 20 x 10 x 8 ins., 15 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on W. face, and raise a mound of stone 3ft. base, 2ft. high, N. of cor. Pits impracticable.  
62/20 Gulch 25 lks. wide, course NW.

Subdivisions of T. 2 S., R. 12 W.

Chains.

70.00 Ascend.  
 Ridge brs. N. and S.  
 Descend abruptly.  
 79.90 The cor. of secs. 17. 18. 19 and 20.  
 Land mountainous.  
 Soil, 4th rate.  
 No timber.  
 Mountainous land, exceptionally difficult to survey,  
 79.90 chs.  
 August 6, 1908.

40.00 August 7, At 7h30m.a.m. l.m.t., we set off 33° 35' Non  
 78.33 the lat. arc; 16 27' N. on the decl. arc; and  
 determine a true meridian with the solar, at the  
 cor. of secs. 17. 18. 19 and 20.; thence we run  
 S. 89° 45' W. on a random line bet. secs. 18 and 19.  
 Set temp. ¼ sec. cor.  
 Intersect W. bdy., 17 lks. S. of the cor. of secs.  
 13. 18. 19 and 24.  
 Thence we run  
 N. 89 48' E. on a true line bet. secs. 18 and 19.  
 Over mountainous land.  
 Ascend.  
 38.33 Set a granits stone, 20 x 10 x 6 ins., 15 ins. in the  
 ground, for ¼ sec. cor., marked ¼ on N. face, and  
 raise a mound of stone 3ft. base, 2ft. high, N. of  
 cor. Pits impracticable.  
 54.00 Ascend steep ridge.  
 63.50 Ridge brs. N. and S.  
 Descend.  
 73.00 Telegraph Creek, 1 ch. wide, course N.  
 78.33 The cor. of secs. 17. 18. 19 and 20.  
 Land, mountainous.  
 Soil, 3rd and 4th rate.  
 No timber.  
 Mountainous land, exceptionally difficult to survey,  
 78.33 chs.

11.30 N. 0° 3' W. bet. secs. 17 and 18.  
 14.00 Over very mountainous land.  
 20.00 Telegraph Canon, 1 ch. wide, course NE.  
 40.00 Ascend.  
 Ascend abruptly.  
 Bedrock in place, sloping east; we chisel a cross at cor  
 point, for ¼ sec. cor., marked ¼ W. of cross, and  
 raise a mound of stone 3ft. base, 2ft. high, W.  
 of cor. Pits impracticable.  
 Ascend along E. bluff of Picket Post Butte.  
 75.00 Descend.  
 78.75 Top of bluff 100 ft. high, brs. S. 15° E., and N. 15° W.  
 Descend.  
 80.00 Set a trachite stone 24 x 12 x 8 ins., 18 ins. in the  
 ground, for cor. of secs. 7. 8. 17 and 18, marked  
 with 4 notches on S., and 5 notches on E. edge.  
 Raise a mound of stone 4ft. base, 2ft. high, W. of  
 cor. Pits impracticable.  
 Land, mountainous.  
 Soil, 2nd and 4th rate.  
 No timber.  
 Mountainous land, exceptionally difficult to survey,  
 80.00 chs.  
 August 7, 1908.

Subdivisions of T 2 S., R 12 E.

Chains.

40.00  
80.14

August 8; At 7h 20m. a.m. l.m.t., we set off 33° 16' on the lat. arc; 16° 10 1/2' N. on the decl. arc; and determine a true meridian with the solar, at the cor. of secs. 7. 8. 17 and 18. thence we run N. 89° 45' E. on a random line, bet. secs. 8 and 17. Set temp. 1/4 sec. cor. Intersect N. and S, line, 4 lks. N. of the cor. of secs. 8. 9. 16 and 17. Thence we run S. 89° 47' W. on a true line bet. secs. 8 and 17. Descend.

12.00  
32.50  
36.00  
40.07

Descend abruptly into Arnett Canon. Bottom of the Canon, 3 chs. wide, course NW. Ascend abruptly. The 1/4 cor, point falls on Canon wall at inaccessible point.

41.07  
54.00  
80.14

Set a limestone, 16 x 10 x 6 ins., 12 ins. in the ground, for witness cor., to 1/4 sec. cor., marked WC 1/4 on N. face, and raise a mound of stone, 3ft. base, 2ft. high, N. of cor. Pits impracticable. Ascend Picket Post mountain. The cor. of secs. 7. 8. 17 and 18. Land mountainous. Soil, 4th rate. Timber, cottonwood, ash and sycamore along Arnett Canon. Mountainous land, exceptionally difficult to survey,

Note: I retrace the above line August 21, 1911 and obtain practically the same result noted above. 80.14 chs.

Note; The line between 7 and 18 runs over impassable bluffs, across the North face of Picket Post Butte, and it is impracticable to survey it.

19.75  
23.50  
26.50  
32.00  
40.00  
74.60  
76.50  
78.50  
80.00

N. 0° 3' W. bet secs. 7 and 8. Over very mountainous land. Descend abruptly. South wall Brays Canon, 300 ft. high, Bottom Brays Canon, 3 chs. wide, course N. 75° W. Ascend N. wall of Canon. Ridge hrs. E. and NW. Descend. Set a malpais stone, 20 x 6 x 6 ins. 15 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 3ft. base, 2ft. high, W. of cor. Pits impracticable. South rim Queen Creek Canon. Queen Creek, 1 chs. wide, course W. Ascend over rock bluffs. Bedrock in place, sloping E and S., we chisel a cross at cor. point, for cor. of secs. 5. 6. 7 and 8, and cut 5 grooves on S. and E. of cross, and raise a mound of stone 4ft. base, 3ft. high. W. of cor. Pits impracticable. Land, mountainous. Soil, 4th rate. No timber. Mountainous land, exceptionally difficult to survey, 80.00 chs.

August 8, 1908.

Chains.

August 22, 1911; At 10h 10m, a.m., l.m.t., I set off  
 33°16' on the lat. arc; 12° 1' N. on the decl. arc, and  
 determine a meridian with the solar, at the cor. of secs.  
 5, 6, 7 and 8, and run thence  
 N. 89°47' E., on a random line bet. secs. 5 and 8.

40.00 Set temp. 1/4 sec. cor.

79.80 Intersect N. and S. line 35, lks. N. of cor. of secs.  
 4, 5, 8 and 9, thence I run  
 N. 89°58' W., on a true line bet. secs. 5 and 8.  
 Over mountainous land.

7.30 Road, Florence to Superior, bears SE. and NW.

9.65 Board fence, bears N. and S.

33.40 Wire fence, bears SE. and NW.

33.60 Road, Florence to Superior, bears NE. and SW.

Adobe dwelling house, Ole Barkley owner, bears S. 2 chs.

33.80 Stone dwelling house, 30x45 ft. E.G. Phelps owner, on line.

39.74 Adobe house 16x20 ft., Vias owner, on line.

39.88 The NE. cor. of a two story adobe house, partially  
 wrecked, Joe McGrew owner

39.90 Set a granite boulder 20x10x6 ins., 15 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.

53.00 Gulch, 15 lks. wide, course S. 75° W.

61.20 Queen Creek, 75 lks. wide, course NW.

62.10 Ascend abruptly.

67.00 Rocky ridge, bears N. and S.  
 Descend abruptly.

73.20 Queen Creek, 1 ch. wide, course S. 60° W.

75.00 Ascend over rocky bluffs.

79.80 The cor. of secs. 5, 6, 7 and 8.  
 Land mountainous.  
 Soil 2d and 4th rate.  
 Timber cottonwood and willow along Queen Creek.  
 Mountainous land exceptionally difficult to survey.  
 79.80 Chs.

S. 89°48' W. on a random line bet. secs. 6 and 7.

40.00 Set temp. 1/4 sec. cor.

77.23 Intersect w. bdy. of Tp. 18 lks. N. of the cor. of secs.  
 1, 6, 7 and 12. Thence I run  
 N. 89°40' E., on a true line, bet. secs. 6 and 7.  
 Over mountainous land.

6.00 Ridge, bears N. and S.  
 Descend.

24.00 Queen Creek, 2 chs. wide, course S. 75° W.

30.25 Queen Creek, 2 chs. wide, course NW.

37.23 Set a granite stone 20x8x6 ins., 15 ins. in the ground,  
 for 1/4 sec. cor., marked 1/4 on N. face, and raise a  
 mound of stone 3 ft. base 2 ft. high N. of cor.  
 Pits impracticable.

The original 1/4 sec. cor., which I destroy, bears S. 55 lks.

Ascend over rocky bluffs.

74.00 Ridge bears N. and S.  
 Descend.

77.23 The cor. of secs. 5, 6, 7 and 8.  
 Land mountainous.  
 Soil 4th rate.  
 No timber.  
 Mountainous land, exceptionally difficult to survey,  
 77.23 Chs.

Chains.

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	N.0°3' W., bet. secs. 5 and 6.
6.00	Over mountainous land. Ridge, bears E. and W. Descend.
11.30	Road, Florence to Superior, bears E. and W. Ascend.
21.50	Ridge, bears E. and W. Descend.
27.00	Wash, 150 lks. wide, course SW.
30.00	Ascend.
34.24	Telephone line, Florence to Superior, bears E. and W.
40.00	Set a granite stone 16x10x8 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W face and raise a mound of stone 3 ft. base 2 ft. high W of cor. Pits impracticable.
	The original 1/4 sec. cor., which I destroy, bears N.86° E. 15 lks. dist.
58.75	Gulch, 20 lks. wide, course SW. Ascend.
72.50	Ridge, bears E. and W. Descend.
79.15	Intersect N. bdy. of the Tp. 13.36 chs. W. of the cor. of secs. 5 & 6, T. 1 S. R. 12 E. at the original closing cor. of secs. 5 and 6, a malpais stone 6x16x8 ins. above ground, firmly set and marked C C on S., with 5 grooves on E. and 1 groove on W. face, and raise a mound of stone 4 ft. base 3 ft. high S. of cor. pits impracticable. Land mountainous. Soil 4th rate No timber. Mountainous land, exceptionally difficult to survey.
	79.15 Chs.
	Connecting lines " " 13.36 Chs.

August 22, 1911.

## General Description.

This township is very mountainous in the east, south and west, with some rolling land near the center and N. of Queen Creek.

There is scattering cottonwood, willow, sycamore and ash timber along Arnett, Wood, Telegraph and Bray's canons and Queen Creek.

There is permanent water in places in Queen Creek and in Wood, Arnett and Telegraph canons.

The old town of Pinal or Picket Post, is located on secs. 5 and 8 near the 1/4 sec. cor., the buildings are mostly in ruins.

There are two settlers each in secs. 3, 4, 5 and 8 and one in sec. 22.

There is considerable evidence of mineral, principally gold, copper and iron in the eastern part of the Tp. which is being prospected and developed.

The residents near the N. bdy. of the Tp. in secs. 2 and 3 are occupying land located as mining claims and are not included in the list of settlers enumerated above.

The town of Superior is situated just over the N. bdy. of the Tp. in secs. 35 and 36; T. 1 S.; R. 12 E.

Wickenburg, Arizona December 18, 1908 and

August 25, 1911.

*Francis Jacobs*  
U. S. Deputy Surveyor.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Jacobs & Curry  
....., 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

Subdivisions of T. 25 - R. 12 E.  
showing the respective capacities in which they acted:

- Harry S. Young....., Chainman.
- Jim A. Kellis....., Chainman.
- A. Norman Oliver....., Moundman.
- ....., Moundman.
- ....., Axman.
- ....., Axman.
- ....., Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Jacobs & Curry  
....., United States Deputy Surveyor, in surveying all  
those parts or portions of the Subdivisions of T. 25,  
R. 12 E.

..... of the Land  
S. R. Base and meridian, Territory of Arizona, which are represented  
in the foregoing field notes as having been surveyed by ~~him~~ <sup>them</sup> and under ~~his~~ <sup>their</sup> 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
- Harry S. Young....., Chainman.
  - Jim A. Kellis....., Chainman.
  - A. Norman Oliver....., Moundman.
  - ....., Moundman.
  - ....., Axman.
  - ....., Axman.
  - ....., Flagman.

Subscribed and sworn to before me this 10  
day of Aug., 1908

Francis Jacobs  
Notary Public



My commission expires September 20, 1911

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

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,

\_\_\_\_\_, 190 \_\_\_\_\_

The foregoing field notes of the survey of \_\_\_\_\_

executed by \_\_\_\_\_ under his contract No. \_\_\_\_\_, dated \_\_\_\_\_, 190 \_\_\_\_\_, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

\_\_\_\_\_  
*United States Surveyor General.*

I certify that the foregoing transcript of the field notes of the above-described surveys in \_\_\_\_\_, has been correctly copied from the original notes on file in this office.

\_\_\_\_\_  
*United States Surveyor General.*



FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

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LIST OF NAMES.

BOOK 2228

A list of the names of the individuals employed by Francis B. Jacobs

....., 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 a part of

J. 2. 5. R. 12. E

showing the respective capacities in which they acted:

Ramon Valdez

....., Chainman.

....., Chainman.

....., Moundman.

....., Moundman.

....., Axman.

....., Axman.

....., Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Francis B. Jacobs

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

those parts or portions of the

J. 2. 5. R. 12. E

..... of the 1/4 and

Sacramento 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

Ramon Valdez

....., Chainman.

....., Chainman.

....., Moundman.

....., Moundman.

....., Axman.

....., Axman.

....., Flagman.

Subscribed and sworn to before me this 27<sup>th</sup>

day of August, 1911

Francis B. Jacobs  
U.S. Deputy Surveyor



FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

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BOOK 2228

I, Francis B Jacobs 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 20 day of March, 1908, 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 Corrections in

T. & S. R. 12 E

of the Gila and Salt River 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.

Francis B Jacobs  
United States Deputy Surveyor.

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



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

\_\_\_\_\_, 19 \_\_\_\_\_

The foregoing field notes of the survey of \_\_\_\_\_

executed by \_\_\_\_\_ under his contract No. \_\_\_\_\_, dated \_\_\_\_\_, 19 \_\_\_\_\_, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

\_\_\_\_\_  
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in \_\_\_\_\_, has been correctly copied from the original notes on file in this office.

\_\_\_\_\_  
United States Surveyor General.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

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BOOK 2228

LIST OF NAMES.

A list of the names of the individuals employed by Jacobs Henry  
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

T 2 S. R 12 E

showing the respective capacities in which they acted:

- Jim A Kellis, Chainman.
- Guy Phelps, Chainman.
- , Moundman.
- , Moundman.
- , Axman.
- , Axman.
- , Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Jacobs Henry  
United States Deputy Surveyor, in surveying all

those parts or portions of the Subdivisions of  
T 2 S R 12 E

of the Sils and  
Salt River Base 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

- James A Kellis, Chainman.
- Guy Phelps, Chainman.
- , Moundman.
- , Moundman.
- , Axman.
- , Axman.
- , Flagman.

Subscribed and sworn to before me this 7  
day of March, 1900

Francis Jacobs



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BOOK 2228

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Francis B. Jacobs 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 20 day of March, 1908, 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 Subdivisions of T. 2 S. R. 12 E

of the Gila and Salt River Basin 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.

Francis B. Jacobs  
United States Deputy Surveyor.

Subscribed by said Francis B. Jacobs, and sworn to before me }  
this 17 day of May, 1900

Frank S. Ingalls  
U. S. SURVEYOR GENERAL & D. A.



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Ariz. Nov. 23, 1901

The foregoing field notes of the survey of the Subdivisional Lines T. 2 S. R. 12 E, Sec. 20 R. Meridian, Arizona

executed by Francis B. Jacobs M.P.S.D. under <sup>joint</sup> his contract No. 148, dated March 20, 1908, 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.