

MAR. 11. 1909  
+  
MAY 17. 1910

Book. K.

2230

BOOK 2230

FIELD NOTES

Accepted Letter E.  
Dec. 19, 1911.

2230

OF THE SURVEY OF THE

Subdivisions of  
T17S.

R18E

2230

2230

Of the T17S. and Salt River Base and Meridian,  
Territory of Arizona

2230

AS SURVEYED BY

2230

Jacobs and Curry, United States Deputy Surveyor,

Under ~~his~~ <sup>their</sup> Contract No. 148, dated March 70, 1908

Survey commenced September 6, 1908

Survey completed August 17, 1911

2230

1A

NAMES AND DUTIES OF ASSISTANTS.

BOOK 2230

John G. Kellis	Chairman
Narvey N. Cook	"
Nary S. Young	wardman
Ed C. Roberts	Apurson

*Jan*

BOOK 2230

INDEX DIAGRAM.

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Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

BOOK 2230

WE, Jim A. Kellis and Harvey H. Coker  
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

Subdivisions of T. 17. S. - R. 18. E.

Jim A. Kellis, Chairman.  
Harvey H. Coker, Chairman.

Subscribed and sworn to before me this 5  
day of September, 1908



My commission expires September 20, 1911.

Francis Jacobs  
Notary Public

I, Narry S. Young 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 me to the best of my skill and ability, in the survey of

the Subdivisions of T. 17. S. - R. 18. E.

Narry S. Young, Moundman.  
Moundman.

Subscribed and sworn to before me this 5  
day of September, 1908



My commission expires September 20, 1911.

Francis Jacobs  
Notary Public

I, Fred C. Roberts 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 me to the best of my skill and ability, in the survey of

the Subdivisions of T. 17. S. - R. 18. E.

Fred C. Roberts, Axman.  
Axman.

Subscribed and sworn to before me this 5  
day of September, 1908



My commission expires September 20, 1911.

Francis Jacobs  
Notary Public

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 2230

INDEX DIAGRAM.

Township 170, Range 18 E.

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Meanders Page \_\_\_\_\_

1 E  
BOOK 2230

PRELIMINARY OATHS OF ASSISTANTS.

WE, Jim A Kellis and Nicolas A Sanchez  
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 17 S - R 18 E

James A Kellis, Chairman.  
Nicolas A. Sanchez, Chairman.

Subscribed and sworn to before me this 10  
day of March, 1960

Francis B Jacobs



WE, Nicolas A Sanchez 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 Subdivisions of J. 17 S - R 18 E

Nicolas A. Sanchez, Moundman.  
\_\_\_\_\_, Moundman.

Subscribed and sworn to before me this 10  
day of March, 1960

Francis B Jacobs



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, Jim A Kellis, 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 Subdivisions of J. 17 S - R. 18 E.

James A. Kellis, Flagman.

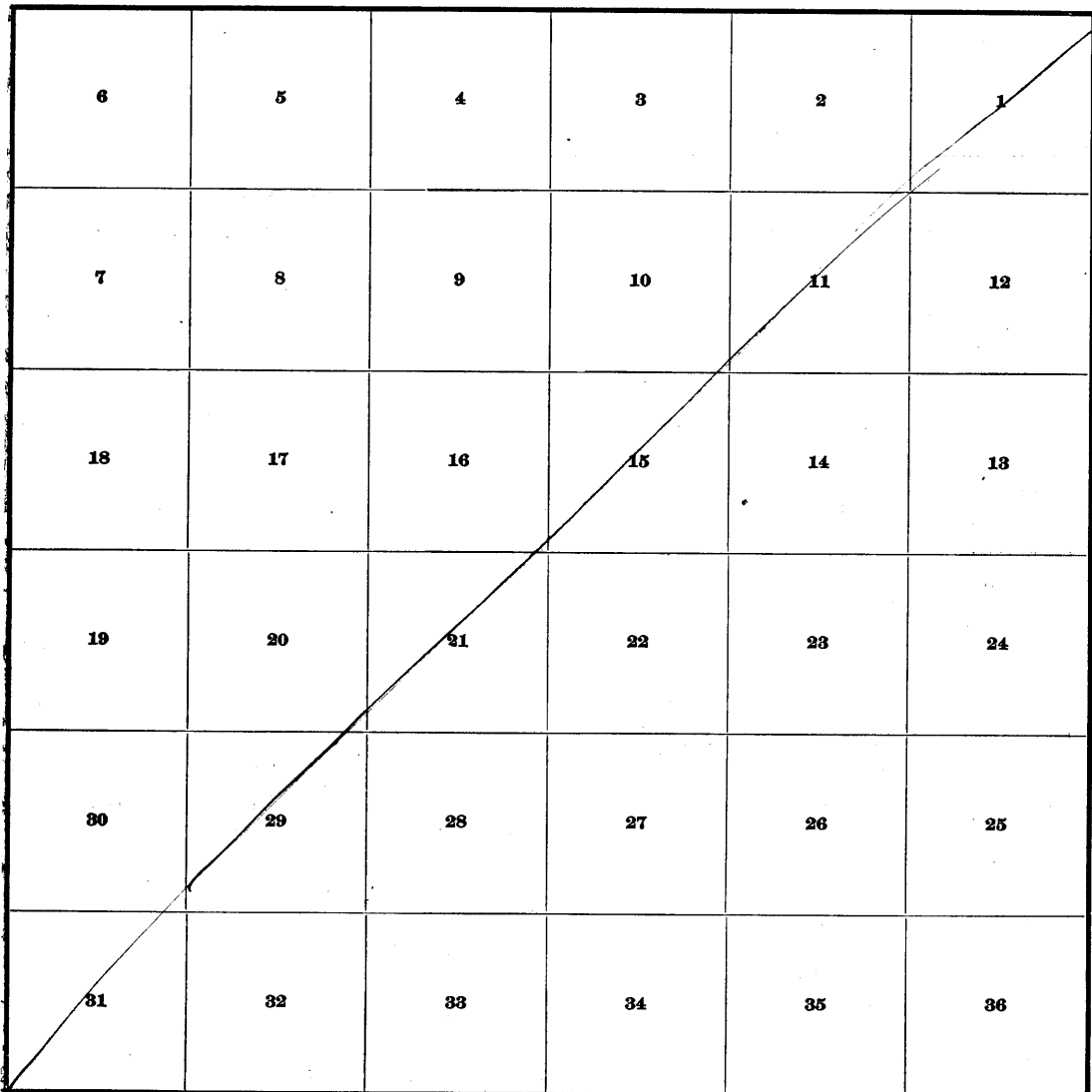
Subscribed and sworn to before me this 10  
day of March, 1960

Francis B Jacobs



# INDEX DIAGRAM.

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



Meanders Page \_\_\_\_\_

PRELIMINARY OATHS OF ASSISTANTS.

BOOK 2230

WE, Callesano Villa and Francisco Patina:

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 J. 17.5. R. 18 E.

Callesano Villa, Chainman.  
Francisco Patina, Chainman.

Subscribed and sworn to before me this 15 day of August, 1911



Francis 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 \_\_\_\_\_





Chains

Finding the N., S., E., & W. boundaries of T. 17 S. R. 18 E. out of limits in measurement and alinement, before beginning the subdivision of this Tp. it is necessary to establish a sectional correction line through the Tp. West from the cor. of secs. 25, 30, 31 & 36 on East boundary of Tp. Survey begun Sept. 6, 1908 and executed with a Gurley light mountain transit No. not given. The plates of the inst. are provided with two double verniers placed opposite to each other and each reading to 1' of arc, which is also the least count of the verniers of the lat. & decl. arc of the solar attachment which is a Burts patent solar attachment.

I examine the adjustments of the transit and correct the levels and line of collimation and standards of the inst., then to test the solar apparatus by comparing the results of a.m. & p.m. observations for mer. with a true mer. determined by polaris observation, I proceed as follows:

At the cor. above described at 3h p.m., l.m.t., I set off  $6^{\circ} 21'$  N. on the decl. arc and  $31^{\circ} 55'$  N. on the lat. arc and determine a mer. with the solar, and mark a point in the meridian thus determined by a tack in a stake driven in the ground 5 chs. N. of my station.

At 8h 22m, p.m., l.m.t., I observe polaris at E. Elong. in accordance with instructions in the "Manual and mark a point in the line thus determined by a cross on a fixed stone 5 chs. N. of my station.

Sept. 7, 1908 at 7h a.m., l.m.t., I set off the azimuth of polaris  $1^{\circ} 24'$  to the West and mark a point in the true meridian thus determined by a tack in the stake 5 chs.

N. of my station, which point falls  $1/8$  in. E. of the mer. determined by the solar on preceding evening.

Then I set off  $6^{\circ} 7'$  N. on the decl. arc and  $31^{\circ} 55'$  N. on the lat. arc and determine a mer. with the solar, and mark a point in the mer. thus determined by a point on the stake 5 chs N. of my station, This mer. co-incides with the mer. determined by polaris obs.

Hence I conclude that the instrument is in satisfactory adjustment.

Thence I run, On sectional correction line.

West bet. secs. 25 & 36.

Over mts. land asc.

- 3.50 Ridge; brs. SE. & NW. desc.
- 7.00 Gulch 20 lks. wide, course NW. asc.
- 11.50 Ridge; brs. SE. & NW. desc.
- 17.50 Gulch 50 lks. wide, course N.  $60^{\circ}$  E. asc.
- 30.00 Gulch 20 lks. wide, course NW. asc.
- 38.25 Ridge; brs. SE. & NW. desc.
- 40.00 Set a granite stone 20x10x6 ins. 15 ins. in the ground for  $1/4$  sec. cor. marked  $1/4$  on N. face and raise a md. of earth  $3 1/2$  ft. base  $1 1/2$  ft. high N. of cor. Dig pits 18x18x12 ins. E. & W. 3 ft. dist.
- 43.30 Gulch 20 lks. wide, course NW. asc.
- 51.00 Ridge; brs. SE. & NW. desc.
- 66.50 Gulch 30 lks. wide, course N.  $30^{\circ}$  W. asc.
- 77.00 Ridge; brs. SE. & NW. desc.
- 80.00 Set a limestone 18x10x6 ins. 12 ins. in the ground for cor. of secs. 25, 26, 35, 36 marked with 1 notch on E. & S. edges and raise a mound of stone 2 ft. base  $1 1/2$  ft. high W. of cor.

No bearings available.

Land, Mts.

Soil, gravelly, stony, 3rd rate.

Timber, Scattering mesquite, .

Undergrowth, mesquite, tesseta. paleverde. cacti.

Mts. land exceptionally difficult to survey, 80.00 chs.

BOOK 2230

Chains

West bet. secs., 26 & 35.  
 Over mts. land, desc. through dense mesquite.  
 3.50 Gulch 20 lks. wide, course NW. asc.  
 15.00 Ridge, brs. SE. & NW. desc.  
 18.00 Gulch 20 lks. wide, course N. asc.  
 34.00 Ridge, brs. N. & S. desc.  
 40.00 Set a limestone 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.  
 No bearings available.  
 45.00 Gulch 20 lks. wide, course N. 15° W. asc.  
 51.00 Ridge, brs. S. 20° E. & N. 20° W. desc.  
 60.50 Gulch 20 lks. wide, course NW. asc. along pt. of ridge  
 brs. S.E.  
 70.20 Desc. steep.  
 71.20 Mouth of same gulch as above.  
 73.00 Main canyon, 1 ch. wide, course NW.  
 75.00 Asc. very steep.  
 78.00 Top of bank.  
 80.00 Set a granite stone 20x10x8 ins. 15 ins. in the ground  
 for cor. of secs. 26, 27, 34 & 35, marked with 2 notches  
 on E. & 1 notch on S. edges and raise a mound of stone  
 2 ft. base 1 1/2 ft. high W. of cor.  
 No bearings available.  
 Land, Mountainous, very broken.  
 Soil, stony, gravelly, 3rd rate.  
 Timber, mesquite.  
 Undergrowth, dense mesquite, tesseta.  
 Mountainous land exceptionally difficult to survey, 80.00 chs.

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 At this cor at noon, I set off 6° 01' N. on the decl. arc  
 and observe the sun on the mer.  
 The resulting lat. is 31° 55' N.

-----  
 West bet. secs. 27 & 34.  
 Over mts. land, ascending.  
 3.50 Gulch 15 lks. wide, course NE. asc.  
 12.00 Gulch 20 lks. wide, course N.E. asc.  
 28.00 Gulch 15 lks. wide, course NE. asc. steep.  
 36.00 High ridge, brs. SE. & NW. desc.  
 40.00 Set a granite stone 18x10x8 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.  
 No bearings available.  
 41.00 Gulch 10 lks. wide, course S. 75° W.  
 60.50 Enter main gulch 50 lks. wide course N. 75° W.  
 68.00 Leave Gulch, runs North. asc. steep rocky hill.  
 68.15 Wire fence, brs. N. & S. enter pasture, C.W. Smith.  
 80.00 Set a granite stone 18x10x6 ins. 12 ins. in the ground for  
 cor. of secs. 27, 28, 33 & 34, marked with 3 notches on  
 E. & 1 notch on S. edges and raise a mound of stone 2  
 ft. base 1 1/2 ft. high W. of cor.  
 No bearings available.  
 Land mts.  
 Soil, stony, gravelly 3rd rate.  
 Timber, scattering mesquite.  
 Undergrowth, dense mesquite, tesseta, paleverde. cacti.  
 Mts. land exceptionally difficult to survey, 80.00 chs.  
 Sept. 7, 1908.

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 Sept., 8, 1908, at 7h a.m., l.m.t., at the cor. above de-  
 scribed I set off 5° 45' N. on the decl. arc and  
 31° 55' N. on the lat. arc and determine a true mer.  
 with the solar, thence I run,  
 west bet. secs. 28 & 33.

Over mts. land asc.  
 5.75 Mountain ridge, brs. N. & S. desc.  
 18.32 Wire fence, brs. N. & S. leave pasture.  
 29.50 Gulch, 40 lks. wide, course N.W. asc.  
 33.00 Ridge, brs. SE. & NW. desc.  
 40.00 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  
 2. ft. base 1 1/2 ft. high N. of cor.  
 No bearings available.

Chains

43.00 Gulch 20 lks. wide, course NW. asc.  
 44.50 Ridge, brs. NE. & SW. desc.  
 46.15 Main canyón, 1 ch. wide, course N.20° W. asc. steep.  
 66.00 Ridge, brs. SE. & NW. desc.  
 71.50 Gulch 40 lks. wide, course N. asc. abrupt.  
 80.00 Set a limestone 24x16x10 ins. 18 ins. in the ground for  
 Cor. of secs. 28, 29, 32 & 33, marked with 4 notches on E.  
 & 1 notch on S edges and raise a mound of stone 2 ft. base  
 1 1/2 ft. high W. of cor.  
 No bearings available.  
 Land Mts. Soil, stony, gravelly, 3rd rate.  
 Timber, mesquite.  
 Undergrowth, dense mesquite, tesseta.  
 Mts. land exceptionally difficult to survey, 80.00 chs.

BOOK 2230

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West bet. secs. 29 & 32.

Over mts. land asc.

.50 Top of ridge, brs. SE. & NW. desc.  
 3.80 Gulch 40 lks. wide, course N W. asc. steep.  
 13.50 Ridge, brs. SE. & NW. desc. steep.  
 32.00 Gulch 30 lks. wide, course N. asc. steep.  
 40.00 Set a granite stone 24x8x8 ins. 18 ins. in the ground  
 for 1/4 sec. cor. marked 1/4 on N. face and raise a md.  
 of stone 2 ft. base 1 1/2 ft. high N. of cor.  
 No bearings available.

45.00 Ridge, brs. N. &amp; S. desc. steep.

68.00 Feet of steep slope.

80.00 Set a granite stone 18x10x8 ins 12 ins. in the ground  
 for cor. of secs. 29, 30, 31 & 32, marked with 5 notches  
 on E. & 1 notch on S. edges and raise a mound of stone  
 2 ft. base 1 1/2 ft. high W. of cor. from which,  
 a mesquite 8 ins. diam. brs. S. 63 1/2° E. 114 lks. dist.,  
 marked T. 17 S. R. 18 E. S. 32 B.T.

No other bearings available.

Land mts. Soil, stony, gravelly, 3rd rate.

Timber, scattering mesquite.

Undergrowth dense mesquite, tesseta.

Mts. land exceptionally difficult to survey, 80.00 chs.

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At this cor. at noon, I set off 5° 39' N. on the decl.  
arc and obs. the sun on the mer.

the resulting lat. is 31° 55' N.

Thence I run,

West bet. secs. 30 &amp; 31.

Over mts. land desc. abrupt.

1.50 Bottom of gulch.  
 5.00 Cienega 3 chs. wide, course N. 10° E. Running water.  
 8.00 Asc. abrupt.  
 13.00 Ridge, brs. SE. & NW. desc. steep.  
 24.00 Gulch 30 lks. wide, course SE. asc. steep ridge.  
 40.00 Set a sandstone 20x8x6 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.  
 No bearings available.  
 40.50 Top of high ridge, brs. NW. & SE. desc.  
 44.00 Gulch 20 lks. wide, course S. asc.  
 47.00 Top of ascent on S. slope of ridge. desc.  
 51.50 Gulch 30 lks. wide, course SE. Asc. along S. slope.  
 84.24 Intersect W. bdy. 3.60 chs. N. of cor. of secs. 25 and, 36,

T. 17 S., R. 17 E.

Set a Trachite stone 20x12x6 ins, 15 ins. in the ground  
 for closing cor. of secs. 30 & 31, marked with 5 notches  
 on E. & 1 notches on S. faces, with C.C. on E. face and  
 and raise a mound of stone 2 ft. base. 1 1/2 ft 5 high  
 E. of cor.

No bearings available.

Land mts. very broken.

Soil, stony, gravelly, 3rd rate.

Timber, dense mesquite in washes.

Undergrowth, dense mesquite, tesseta.

Mts. land exceptionally difficult to survey, 84.24 chs.

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Sept. 8, 1908  
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Chains

BOOK 2230

- Sept, 9, 1908, I again examine and test the adjustments of the transit and solar attachment, and at 7h a.m., l.m.t., at the cor. of secs. 25, 30, 31 & 36, I set off 5° 22' N. on the decl. arc and 31° 55' N. on the lat. arc and determine a meridian with the solar, which mer. coincides with the meridian as determined by polaris observation on evening of Sept. 6, 1908. Hence I conclude that the inst. is in satisfactory adjustment.
- At 8h a.m., l.m.t., at the cor. of secs. 25, 26, 35 & 36 on sectional correction-line as recently established, I set off 5° 20' N. on the decl. arc and 31° 55' N. on the lat. arc and determine a true mer. with the solar, Thence I run, South, bet. secs. 35 & 36, on sectional Guide Meridian.
- Over mts. land desc.
- 9.00 Enter gulch 25 lks. wide, course N. 20° W.  
 23.00 Leave gulch, brs. S. 30° E. & asc.  
 40.00 Set a limestone 24x8x6 ins. 18 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.  
 No bearings available.  
 On ridge, brs. SE. & NW. desc. steep.
- 52.00 Canyon 50 lks. wide, course NW. asc. abrupt.  
 74.00 High ridge, brs. SE. & NW. desc. steep.  
 79.74 intersect S. bdy. at point 91 lks. E. of cor. of secs. 1, 2, 35 & 36, at point of intersection,  
 Set a limestone 24x12x8 ins. 18 ins. in the ground for closing cor. of secs. 35 & 36 marked with 1 grave on E. face and C.C. on N. face, & raise a mound of stone 2 ft. base 1 1/2 ft. high N. of cor.  
 No bearings available.  
 Land, mts. Soil, gravelly, stony.  
 Timber, scattering mesquite.  
 Undergrowth, mesquite, paleverde, cacti.  
 Mts. land exceptionally difficult to survey, 79.74 chs.
- 
- From the cor. of secs. 25, 26, 35 & 36, I run, North, bet. secs. 25 & 26, on sectional Guide Meridian.
- Over mts. land desc.
- 22.50 Gulch 30 lks. wide, course N. 30° W. asc.  
 32.00 Ridge, brs. SE. & NW. desc.  
 40.00 Set a limestone 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.  
 No bearings available.  
 At this cor. at noon, I set off 5° 17' N. on the decl. arc and observe the sun on the mer.  
 The resulting lat. is 31° 55' N.
- 44.00 Gulch 25 lks. wide, course NW. asc.  
 47.50 Ridge, brs. SE. & NW. desc.  
 51.00 Gulch 20 lks. wide, course NW. asc.  
 59.00 Ridge, brs. SE. & NW. desc.  
 73.00 Gulch 25 lks wide course N. 60° W. asc.  
 77.00 Ridge, brs. SE. & NW. desc.  
 80.00 Set a granite stone 18x10x6 ins. 12 ins. in the ground for cor. of secs. 23, 24, 25, & 26 marked with 2 notches on S. & 1 notch on E. edges and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor.  
 No bearings available.  
 Land mts. Soil, gravelly, 3rd rate.  
 Timber, None.  
 Undergrowth, dense mesquite in washes. paleverde, cacti.  
 Mts. land exceptionally difficult to survey, 80.00 chs.
- 
- East, on a random line bet. secs. 24 & 25.
- ~~40.00 Set temp 1/4 sec. cor.  
 79.50 Intersect E. bdy. 21 lks. S. of cor. of secs. 24, 25, & 19 & 30, whence I run,  
 S. 89° 52' W. on a true line bet. secs. 24 & 25.  
 Over mts. lan asc.  
 9.00 Ridge, brs. SE. & NW. desc.  
 22.00 Gulch 20 lks. wide, course NW. asc.  
 29.00 Ridge, brs. SE. & NW. desc.~~

Subdivisions of T. 17 S., R. 18 E.

Chains.	
	<p>March; 14, 1910; At 8h 40m., a.m., l.m.t., <sup>arc.</sup></p> <p>I set off 31° 55' 1/2 Non' the lat. arc; 2° 41' S. on the decl. and determine a meridian with the solar, at the cor. of secs 23, 24, 25 and 26, and run thence</p>
	<p>East, on a random line bet. secs. 24 and 25.</p>
40.00	Set temp. 1/4 sec. cor.
79.83	Intersect E. bdy. of the Tp., 3 lks. S. of the cor. of secs. 19, 24, 25 and 30. recently established by us.
	Thence I run
	S. 89° 59' W. on a true line bet. secs. 24 and 25.
	Over mountainous land.
	Ascend.
9.00	Ridge, bears SE. and NW.
	Descend.
22.00	Gulch, 20 lks. wide, course NW.
	Ascend.
29.00	Ridge, bears SE. and NW.
	Descend.
39.83	Set a sandstone 24x12x4 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
47.00	Gulch 30 lks. wide, course NW.
	Ascend.
60.00	Wash 30 lks. wide, course W.
63.00	Wash, 30 lks. wide, course NW.
	Ascend.
71.50	Ridge bears SE. and NW.
	Descend.
79.83	Thr cor. of secs. 23, 24, 25 and 26.
	Land Mountainous.
	Soil 3d rate.
	No timber.
	Mountainous land, exceptionally difficult to survey,
	79.83 chs.
<hr/> <p>At the cor. of secs., 23, 24, 25 and 26; At noon, I set off 2° 38' S. on the decl. arc and observe the Sun on the meridian, the resulting latitude is 31° 55' N.</p> <hr/>	
	<p>North, on the Sectional Guide Meridian, bet. secs. 23 and 24.</p> <p>Over mountainous land.</p> <p>Descend.</p>
4.00	Head of gulch, 10 lks. wide, course NW.
	Ascend.
18.00	Ridge, bears SE. and NW.
	Descend.
40.00	Set a granite stone 16x8x6 ins., 11 ins. in the ground for 1/4 sec. cor., marked 1/4 on W. face, from which
	A mesquite 12 ins. in diam. bears N. 40° E. 289 lks. dist. marked 1/4 S. 24 B T.
	A mesquite, 4 ins. in diam., bears S. 86° 30' W., 102 lks. dist mark e d 1/4 S 23 B T.
41.50	Head of gulch, course NW.
	Ascend.
45.00	Ridge, bears SE. and NW.
	Deacend
72.00	Gulch, 40 lks. wide, course NW.
	Ascend.

Chains.	80.00	Set a limestone 20x10x6 ins., 15 ins. in the ground, for cor. of secs. 13, 14, 23 and 24, marked with 3 nitches on S. and 1 notch on E. edge, and raise a mound of stone 3 ft. base, 2 ft. high, W. of the cor. pits impracticable. Land Mountainous. Soil 3d rate. Timber scattering mesquite. Mountainous land, exceptionally difficult to survey, 80.00 chs.
		N. 89° 59' E., on a random line, bet. secs. 13 and 24.
	40.00	Set temp. 1/4 sec. cor.
	79.48	Intersect E. bdy. of the Tp. 38 lks. S. of cor. of secs. 13, 18, 19 and 24, thence I run S. 89° 43' W. on a true line bet. secs. 13 and 24. Over mountainous land. Ascend.
	28.60	Ridge, bears SE. and NW. Descend.
	39.48	Set a sandstone 16x10x6 ins. 11 ins. in the ground, for 1/4 sec. cor. marked 1/4 on N. face, from which a hackberry 12 ins. in diam. bears S. 32° 15' E. 209 lks. dist, marked 1/4 S 24 B T. No other bearing available. dig pits 18x18x12 ins. E. and W. of stone 3 ft. dist, and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft high, N. of cor.
	43.00	Enter wash, course N. 60° W.
	47.00	Leave wash, course N. 60° W. Ascend.
	49.00	Ridge bears SE. and NW. Descend.
	51.60	Wash, 40 lks. wide, course NW. Ascend.
	59.50	Ridge, bears SE. and NW. Descend.
	67.60	Wash 25 lks. wide, course N. 30° W. Ascend.
	79.48	The cor. of secs. 13, 18, 19 and 24. Land mountainous. Soil 2d and 3d rate. Timber scattering mesquite. Mountainous land. 79.48 chs.
		North on the Sectional Guide Meridian, bet. secs. 13 and 14. Over mountainous land. Ascend.
	3.00	Ridge, bears SE. and NW. Descend.
	13.20	Wash, 40 lks. wide, course NW.
	30.50	Wash 30 lks. wide, course N. 60° W. Ascend.
	40.00	Set a granite stone 16x10x5 ins. 11 ins. in the ground for 1/4 sec. cor., marked 1/4 on W. face, dig pits 18x18x12 ins. N. and S. of cor. 3 1/2 ft. dist. and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high W of cor.
	47.22	Wire fence, bears SE. and NW., enter pasture.
	64.00	Ascend.
	76.00	Ridge, bears SE. and NW. Descend.

Chains.  
80.00 Set a granite stone 20x12x6 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 ft. base, 2 ft. high W. of cor. Pits impracticable.  
Land mountainous.  
Soil 3d rate.  
No timber.  
Mountainous land. 80.00 chs.  
March 14, 1910.

March 15; At 7h 20m, a.m., l.m.t., I set off 31° 57' N. on the lat. arc; 2° 18' S. on the decl. arc, and determine a meridian with the solar, at the cor. of secs. 11, 12, 13, 14. and run thence N. 89° 43' E. on a random line bet. secs. 12 and 13.  
40.00 Sett temp. 1/4 sec. cor.,  
78.33 Intersect E. bdy. of Tp. 12 lks. N. of the cor. of secs. 7, 12, 13 and 18, thence I run S. 89° 48' W. on a true line, bet. secs. 12 and 13, Over rolling land.  
38.33 Set a limestone 18x8 x6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face, dig pits 18x18x12 ins. E. and W. of cor. 3ft. dist., and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high N. of cor.  
56.50 Wash, 40 lks. wide, course NW.  
Ascend.  
59.22 Wire fence brs. N. and S.  
Enter pasture, Empire Land and Cattle Co.  
76.00 Ridge, brs. N. and S.  
Descend.  
78.33 The cor. of secs. 11, 12, 13 and 14.  
Land, rolling.  
Soil, 2nd. and 3rd. rate.  
No timber.

North on sectional Guide Meridian.  
bet. secs. 11 and 12.  
Over mountainous land.  
Descend, along W. slope.  
34.00 Gulch, 50 lks. wide, course NW.  
40.00 Set a limestone 18x12x5 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 3ft. dist., and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high W. of cor.  
45.00 Ridge, brs. SE. and NW.  
Descend.  
53.00 Gulch, 15 lks. wide, course W.  
Ascend.  
60.50 Ridge, brs. SE. and NW.  
Descend.  
75.15 Gulch, 15 lks. wide, course NE.  
Ascend.  
78.00 Ridge, brs. E. and W.  
Descend,  
80.00 Set a granite stone 18x10x5 ins. 12 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 3 ft. base 2ft. high W. of cor. Pits. impracticable.  
Land, mountainous.  
Soil, 2d. and 3d. rate.  
No timber.

8

Chains.

Soil, 3rd. rate.  
No timber.  
Mountainous land.

80.00 Chs.





Chains. N. 89° 48' E. on a random line bet. secs. 1 & 12.  
 40.00 Set temp.  $\frac{1}{4}$  sec. Cor.  
 77.80 Intersect E. Bdy. 80 lks. ~~5039~~ of cor. of Secs. 1, 6, 7 and 12, where we set a granite stone 16 x 8 x 6 ins., 11 ins. in the ground for C.C. of secs. 1 and 12, marked C.C. on W. with 1 groove on N. and 5 grooves on S. face. Dig pits N. and S.  $3\frac{1}{2}$  ft. and W of stone 7 ft., and raise mound of earth 4 ft. base, 2 ft. high W. of cor. Whence I run  
 S. 89° 48' W. on a true line bet. secs. 1 and 12.  
 Over-rolling land.  
 37.80 Set a limestone 18 x 8 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 2 ft. base,  $1\frac{1}{2}$  ft. high N. of cor.  
 No bearings available. asc. grad.  
 75.90 Ridge, brs. N. & S. desc.  
 77.70 Head of gulch, course N. 10° W.  
 77.80 To cor. of secs. 1, 2, 11 and 12.  
 Land rolling. Soil, sandy, loamy, 2nd rate.  
 No timber. Undergrowth mesquite, greasewood.  
 Rolling land 77.80 chs.

North bet. Secs. 1 and 2. On the Sectional Guide Mer.  
 38.48 Telephone line brs. E. & W.  
 38.50 Wire fence. " " "  
 39.25 Center of Southern Pacific Railroad, track brs. S. 86° 45' E. and N. 86° 45' W.  
 39.50 Set a limestone 16 x 6 ins. 11 ins. in the ground for witness cor. to  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on W. face, dig pits 18 x 18 x 12 ins. N. & S. 3 ft. dist. and raise a mound of earth  $3\frac{1}{2}$  ft. base  $1\frac{1}{2}$  ft. high W. of cor.

No bearings available.  
 40.50 Telegraph line par. to R.R.  
 41.50 Wire fence, par. to R.R. ascend.  
 80.45 Intersect N. bdy. 2.57 chs. N. 88° 47' E. of cor. of Secs. 35, & 36, T16S. R18E. Set a sandstone 20 x 8 x 6 ins. 15 ins. in the ground for closing cor. of Secs. 1 and 2, marked with 1 groove on E. and 5 grooves on W. faces and C.C. on S. face, from which,  
 A mesquite tree 4 ins. diam. brs. S. 29 $\frac{1}{2}$ ° E. 80 lks. dist. marked T. 17 S. R. 18 E. S. 1 B.T.  
 A mesquite tree 10 ins. diam. brs. S. 27° W. 88 lks. dist. marked T. 17 S. R. 18 E. S. 2 B.T.  
 We obliterate markings on two of <sup>these</sup> old cor. referring to Sec. 2.  
 Land rolling. Soil, gravelly, sandy, 2nd & 3rd rate.  
 No timber. Undergrowth, mesquite, greasewood.  
 Rolling land 80.45 chs.  
 At this cor. at noon, I set off 2° 14' S. on the decl. arc. and obs. the sun on the mer.  
 The resulting lat. is 31° 59' N. MAR. 15, 1910

SEPT. 10, 1908, FROM COR. OF SEC. 22, 27, 34 & 35 ON SEC. COR. LINE, I RUN  
 30.1E. bet. secs. 34 & 35.  
 17.50 Over mts. land asc. along E. slope of ridge.  
 Desc. abrupt.  
 20.00 Canyon, 15 lks. wide, course E. asc. abrupt.  
 22.40 Top of bank, brs. E. & W. desc.  
 26.20 Gulch 20 lks. wide, course N.E.  
 30.00 Same gulch, course N.W. asc.  
 40.00 Top of ridge, brs. SE. & NW. Set a limestone 18 x 16 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. No bearings available.  
 40.50 Desc.  
 63.25 Gulch 30 lks. wide, course NW. asc.  
 76.50 Ridge, brs. SE. & NW. desc.  
 79.76 Intersect S. Bdy. 112 lks. ~~SE.~~ of cor. of secs. 2, 3, 34 & 35. Set a limestone 20 x 10 x 6 ins. 15 ins. in the ground for closing cor. of Secs. 34 & 35 marked with 2 grooves on E. 4 grooves on West and C.C. on N. faces and raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high N. of cor.  
 No bearings available.  
 Land mts. Soil, gravelly, 3rd rate.  
 No timber. Undergrowth, mesquite, paloverde, cacti.  
 Mts. land 79.76 chs.

Chains.

N. 0° 1' W. bet. secs. 26 & 27.  
 Over mts. land desc. abrupt.  
 3.60 Bottom of canyon 1 ch. wide, course NW. asc. abrupt.  
 6.20 Top of bank, desc.  
 9.50 Gulch 20 lks. wide, course N. 60° W.  
 19.00 Gulch 15 lks. wide, course N. 60° W. asc.  
 30.00 Gulch 15 lks. wide, course NW. asc.  
 38.50 High ridge brs. SE. & NW. desc.  
 40.00 Set a limestone 20 x 12 x 4 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 2 ft. base  $1\frac{1}{2}$  ft. high W. of cor.  
 No bearings available.  
 68.20 Gulch 30 lks. wide, course NW. asc. steep ridge.  
 80.00 Set a granite stone 18 x 10 x 6 ins. 12 ins. in the  
 ground for cor. of secs. 22, 23, 26 & 27, marked with  
 2 notches on E. & 2 notches on S. edges and raise a  
 mound of stone 2 ft. base  $1\frac{1}{2}$  ft. high W. of cor.  
 No bearings available.  
 Land, mts. Soil, stony, gravelly, 3rd rate.  
 No timber. Undergrowth, mesquite, tesseta, paloverde.  
 Mts. land exceptionally difficult to survey, 80.00 chs.

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 East on a random line bet. secs. 23 & 26.

40.00 Set temp.  $\frac{1}{4}$  sec. Cor.  
 80.04 Intersect N. & S. line 16 lks. N. of cor. of secs. 23,  
 24, 25 & 26, whence I run  
 N. 89° 53' W. on a true line bet. secs. 23 & 26.  
 Over mts. land desc.  
 8.00 Gulch 30 lks. wide, course N. 30° W. asc. steep.  
 25.05 High ridge, brs. N. & S. desc. steep.  
 40.02 Set a granite 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, dig pits 18 x 18  
 x 12 ins. E. & W. 3 ft. dist., and raise a mound of  
 stone covered with earth  $3\frac{1}{2}$  ft. base  $1\frac{1}{2}$  ft. high N. of  
 cor.  
 No bearings available.  
 44.00 Ridge, brs. SE. & N.W. desc.  
 57.00 Gulch 15 lks. wide, course N.W. asc.  
 62.50 Ridge, brs. SE & NW. desc.  
 69.00 Gulch 5 lks. wide, course N. 13° W.  
 80.04 To Cor. of Secs. 21, 22, 27 & 28.  
 Land mts. Soil, gravelly, 3rd rate.  
 No timber. Undergrowth, mesquite, dense greasewood.  
 Mts. land exceptionally difficult to survey, 80.04 chs.  
 Sept. 11, 1908.

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 Sept. 12, 1908 at the cor. above described at 8h.a.m.,  
 1.m.t., I set off 4° 12' N. on the decl. arc and 31°  
 56' N. on the lat. arc and determine a true mer. with  
 the solar, thence I run  
 N. 0° 01' W. bet. secs. 22 & 23.

Over mts. land asc.  
 3.00 High ridge, brs. SE. and NW. desc.  
 22.00 Gulch 30 lks. wide, course N. 20° W. asc.  
 34.00 Ridge, brs. SE. and NW. descend.  
 40.00 Set a granite stone 24 x 10 x 6 ins. 18 ins. in the  
 ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on W. face and raise  
 a mound of earth 4 ft. base  $1\frac{1}{2}$  ft. high W. of cor.  
 Dig pits 18 x 18 x 12 ins. N. & S. 3 ft. distant.  
 No bearings available.  
 47.75 Gulch 30 lks. wide, course NW. ascend.  
 56.00 Ridge, bears SE. & NW. descend.  
 64.20 Gulch, 20 lks. wide, course N. 30° W. ascend.  
 80.00 Set a granite stone 20 x 8 x 5 ins. 15 ins. in the  
 ground for cor. of Secs. 14, 15, 22 & 23, marked with  
 3 notches on S. & 2 notches on E. edges and raise a  
 mound of stone 2 ft. base  $1\frac{1}{2}$  ft. high W. of cor.  
 No bearings available.  
 Land mts. Soil, 3rd rate, sandy, gravelly.  
 No timber. Undergrowth, mesquite, paloverde, greasewood.  
 Mts. land exceptionally difficult to survey, 80.00 chs.

September 12, 1908.

BOOK 2230

Chains.

March 16;<sup>1910</sup> At 7h 30m a.m., l. m. t., I set off  $31^{\circ}56' N$  on the lat. arc;  $1^{\circ}54' S$  on the decl. arc; and determine a meridian with the solar at the cor. of secs. 14, 15, 22 and 23, and run thence S.  $89^{\circ}53' E$  on a random line bet. secs. 14 and 23.

40.00 Set temp.  $1/4$  sec. cor.

80.10 Intersect N. and S. line 9 lks. S. of cor. of secs. 13, 14, 23 and 24 thence I run N.  $89^{\circ}57' W$  on a true line bet. secs. 14 and 23. Over mountainous land. Descend.

4.00 Gulch, 40. lks. wide, course NW. Ascend.

17.00 Ridge, brs. SE. and NW. Descend.

29.00 Gulch, 30 lks. wide, course N.  $30^{\circ} W$ .

35.50 Gulch, 20 lks. wide, course N. Ascend.

40.05 Set a limestone  $18 \times 10 \times 6$  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  $2 \frac{1}{2}$  ft. high N. of cor. Pits impracticable.

41.00 Ridge, brs. SE. and NW. Descend.

50.50 Gulch, 30. lks. wide, course NW. Ascend.

78.50 Ridge, brs. SE. and NW.

80.10 To cor. of secs. 14, 15, 23 and 23. Land, mountainous. Soil, gravelly, 3rd. rate. No timber. Undergrowth mesquite and paloverde. Mountainous land. 80.10 Chs.

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North  $0^{\circ}01' W$  bet. secs. 14 and 15. Over mountainous land. Ascend.

3.55 Wire fence brs. E. and W. Enter pasture. E. L. & C. Co. Ridge, brs. SE. and NW. Descend.

18.50 Gulch, 50. lks. wide, course N.  $60^{\circ} W$ . Ascend.

28.00 Ridge, brs. SE. and NW. Descend.

40.00 Set a sandstone  $18 \times 10 \times 6$  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.

48.00 Gulch, 50 lks. wide, course N.  $60^{\circ} W$ .; ascend.

80.00 Set a granite stone  $16 \times 10 \times 6$  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, from which A mesquite 6 ins. in diam. brs. N.  $85^{\circ}30' W$ . 107 lks. dist., marked T 17 S R 18 E S 10 BT. No other bearings available. Dig pits  $18 \times 18 \times 12$  ins. in each sec.  $5 \frac{1}{2}$  ft. dist. and raise a mound of earth 4ft. base 2ft. high W. of cor. Land mountainous. Soil, 3rd. rate. Timber, scattering mesquite. Mountainous land. 80.00 Chs.

Chains.	South 89° 57' E. on a random line bet. secs. 11 and 14.
40.00	Set temp. 1/4 sec. cor.
79.96	Intersect N. and S. line 20 lks. S. of cor. of secs. 11, 12, 13 and 14. Whence I run, S. 89° 54' W. on a true line bet. secs. 11 and 14. Over mountainous land. Ascend.
82.28	Head of gulch, course N. 15° W. Ascend.
11.00	Ridge, brs. N. and S. Descend.
39.98	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 3ft. base 2ft. high N. of cor. Pits impracticable.
42.70	High ridge brs. N. and S. Descend.
62.50	Wash, 30 lks. wide, course NW. Ascend.
79.96	The cor. of secs. 10, 11 14 and 15. Land mountainous. Soil, 3rd. rate. No timber. Mountainous land. 79.96 Chs.
<u>March 16, 1910.</u>	
<p>March 17; At 7h 15m a. m. l. m. t., I set off 31° 57' N. on the lat. arc; 1° 30' S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 10, 11, 14 and 15. Thence I run North 0° 1' W. bet. secs. 10 and 11. Over mountainous land. Descend.</p>	
5.00	Gulch, 10 lks. wide, course NW. Ascend.
27.00	Ridge, brs. SE. and NW. Descend.
40.00	Point for 1/4 sec. cor. falls in wash.
39.60	Set a limestone 20x8x6 ins. 15 ins. in the ground for witness cor. to 1/4 sec. cor. marked W 1/4 on W. face from which a
	A mesquite 24 ins. in diam. brs. N. 62° 30' E. 70 lks. dist. marked 1/4 S 11 W C B T.
	A mesquite 18 ins. in diam. brs. S. 26° 30' W. 267 lks. dist. marked 1/4 S 10 W C B T.
39.70	Wash, 30 lks. wide, course NW.
41.00	Ascend.
43.50	Ridge, brs. SE. and NW. Descend.
69.00	Wash, 30 lks. wide, course NW. Ascend.
80.00	Set a granite stone, 16x10x5 ins. 11 ins. in the ground for cor. of secs. 2, 3, 10 and 14, marked with 5 notches on S. and 2 notches on 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. from which
	A mesquite 6 ins. in diam, bears N. 3° 45' E. 131 lks. dist. marked T. 17 S., R 18 E. S 2 B T.
	A Mesquite 6 ins. in diam. bears S. 0° 30' E. 174 lks. dist. marked T 17 S R 18 E S 11 B T.
	No other bearings available.

Chains.	Land mountainous. Soil 2d rate. Timber mesquite. Mountainous land or land covered with dense undergrowth <hr/> 80.00 chs.
	N.89°54'E. on a random line bet secs.2 and 11.
40.00	Set temp 1/4 sec cor.
79.84	Intersect N.and S. line 11 lks. N.of cor.of secs.1, 2, 11 and 12, thence I run S.89°59'W. on a true line bet. secs. 2 and 11. Over mountainous land. Ascend
33.36	Ridge, bears N.and S. Descend.
39.92	Set a sand stone 22x10x8 ins. 17 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.
41.60	Gulch, 20 lks. wide, course NW.
42.15	Gulch, 10 lks. wide course N. Ascend.
50.35	Ridge, bears N.and S. Descend.
58.00	Gulch, 20 lks. wide, course N. Ascend.
66.30	Ridge, bears SE. and NW. Descend.
72.75	Gulch, 10 lks. wide, course NW. Ascend.
79.84	The cor.of secs.2, 3, 10 and 11. Land mountainous. Soil 3d rate. Timber scattering mesquite. Mountainous land or land covered with dense undergrowth, <hr/> 79.84 chs.
	N.0°1'W. bet. secs. 2 and 3. Over broken land Descend.
8.00	Wash, 75 lks. wide, course N. Descend in wash.
9.60	Telephone line, bears SE. and NW.
9.80	Fence, bears SE. and NW. leave pasture Empire Land and Cattle Co
10.85	Center of Southern Pacific Railway track, bears S.73°30'E and N. 73°30'W., this point is at E.end of bridge No.1019 A.
11.00	Leave wash,course N.60°W. Ascend.
11.30	Telegraph line,parallel to railroad.
12.35	Wire fence, parallel to railroad.
17.00	Ridge, bears SE. and NW. Descend.
18.40	Road, bears E. and W.
25.50	Main wash, 50 lks. wide, course W. Ascend.
40.00	Ridge, bears E.and W. 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,

Chains 2 ft. base 1 1/2 ft. high W. of cor.  
 No bearings available.

48.50 Gulch 20 lks. wide, course SW.  
 69.00 Gulch 30 lks. wide, course SW. asc.  
 79.82 Intersect N. bdy. 2.63 chs. <sup>NE</sup> of cor. of secs. 34, 35. <sup>MISSOURI</sup>  
 Set a sandstone 18x18x6 ins. 12 ins. in the ground for  
 closing cor. of secs. 2 & 3 marked with 2 grooves on E.  
 4 grooves on W. & C.C. on S. faces and raise a mound of  
 stone 2 ft. base 1 1/2 ft. high S. of cor.  
 No bearings available.  
 Land, mts. broken. Soil, sandy, gravelly, 3rd rate.  
 Timber none. Undergrowth, mesquite, dense grease-wood.  
 Mts. land or land covered with dense undergrowth 79.82 chs.  
 At this cor at noon, I set off 1° 27' N. on the decl. arc. and  
 obs. the sun on mer. The resulting lat. is 31° 59' N. MAR. 17, 1910  
 SEPT. 13, 1908 FROM THE COR. OF SECS. 27, 28, 33 & 34 ON SEC. COR. LINE, TRUN,  
 S. 0° 07' E. bet. secs. 33 & 34.  
 Over mts. land asc.

03.00 Desc.  
 27.50 Gulch 30 lks. wide, course N. 30° W. asc.  
 35.20 Gulch 50 lks. wide, course N. 30° W. asc.  
 35.77 Wire fence, brs. E. & W. leave pasture.  
 40.00 Set a sandstone 24x16x6 ins. 18 ins. in the ground for 1/4  
 sec. cor. marked 1/4 on W. face and raise a md. of stone 2  
 ft. base 1 1/2 ft. high W. of cor. from which,  
 a mesquite 8 ins. diam. brs. S. 29 1/2° E. 108 lks. dist.  
 marked 1/4 S. 34 B.T. No other bearings available.  
 58.00 Ridge, brs. SE. & NW. desc.  
 76.00 Gulch 25 lks. wide, course NW. asc.  
 79.96 Intersect S. bdy. 137 lks. <sup>SE</sup> of cor. of secs. 3, 4, 33 and 34  
 Set a granite stone 24x16x6 ins. 18 ins. in the ground for  
 closing cor. of secs. 33 & 34 marked with 3 grooves on E. &  
 W. faces and C.C. on N. face and raise a md. of stone 2 ft.  
 base 1 1/2 ft. high N. of cor. No bearings available.  
 Land mts. Soil, gravelly, 3rd rate.  
 Timber, scattering mesquite. Undergrowth, mesquite, tesselata.  
 Mts. land or land covered with dense undergrowth 79.96 chs.

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 N. 0° 07' W. bet. secs. 27 & 28  
 Over mts. land desc.

15.18 wire fence, brs. SE. & NW.  
 20. Wash 1 ch. wide, course NW. asc.  
 22.00 Asc. steep rocky mountain. C.W. Smith's house brs. W. 9 chs.  
 59.00 Top, brs. E. desc. steep  
 40.00 Set a limestone 18x8x6 ins. 12 ins. in the ground for  
 1/4 sec. cor. marked 1/4 on W. face and raise a md. of  
 stone 2 ft. base 1 1/2 ft. high W. of cor. No bearings avail.  
 Old Wakefield house brs. N. 30° E.  
 72.00 Desc. into canyon.  
 74.00 Bottom of canyon 150 lks. wide, course NW. asc. bluff.  
 76.00 Top  
 80.00 Set a granite stone 24x10x6 ins. 18 ins. in the ground  
 for cor. of secs. 21, 22, 27 & 28 marked with 2 notches on  
 S. & 3 notches on E. edges and raise a mound of stone 2 ft.  
 base 1 1/2 ft. high W. of cor. from which,  
 A cedar 5 ins. diam. brs. N. 81° E. 71 lks. dist. marked,  
 T. 17 S. R. 18 E. S. 22. B.T. No other bearings available.  
 Old Wakefield house brs. S. 62° E.  
 Land mts. Soil, 2nd & 3rd rate, sandy, gravelly.  
 No timber. Undergrowth, mesquite, paleverde.  
 Mts. land or land covered with dense undergrowth and  
 exceptionally difficult to survey, 80.00 chs.  
 Sept. 13, 1908

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BOOK 2230

**Chains** Sept. 14, 1908, at 8h a.m., l.m.t., At the cor. of secs. 21, 22, 27 & 28, I set off  $3^{\circ} 26' N.$  on the decl. arc and  $31^{\circ} 56' N.$  on the lat. arc and determine a true mer. with the solar. Thence I run, East on a random line bet. secs. 22 & 27.

40.00 Set temp  $1/4$  sec. cor.

80.06 Intersect N. & S. line 16 lks. N. of cor. of secs. 22, 23, 26 & 27, whence I run,  $N. 89^{\circ} 53' W.$  on a true line bet. secs. 22 & 27. Over mts. land desc.

9.26 Gulch 30 lks. wide, course NW. asc.

19.56 High ridge, brs. SE. & NW. desc.

40.03 Set a granite stone  $24 \times 8 \times 6$  ins. 18 ins. in the ground for  $1/4$  sec. cor. marked  $1/4$  on N. face, dig pits  $18 \times 18 \times 12$  ins. E. & W. 3 ft. dist. & raise a mound of stone covered with earth  $3 1/2$  ft. base  $1 1/2$  ft. high N. of cor. No bearings available.

47.66 Wire fence, brs.  $N. 75^{\circ} E.$  &  $S. 75^{\circ} W.$  at 1 ch. NE. turns  $N. 50^{\circ} E.$

49.90 Gulch 15 lks. wide, course NW.

55.00 Gulch 10 lks. wide, course NW. asc.

67.40 Wire fence, brs. N and S. Enter pasture.

79.00 Gulch 5 lks. wide, course  $N. 15^{\circ} W.$

80.06 To cor. of secs. 21, 22, 27 & 28. Land mts. Soil, 3rd rate, gravelly. No timber. Undergrowth, mesquite, tesselata. in washes. greasewood. Mts. land or land covered with dense undergrowth, 80.06 chs.

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$N. 0^{\circ} 7' W.$  bet. secs. 21 & 22. Over mts. land desc.

.20 Gulch, 15 lks. wide, course  $N. 80^{\circ} W.$  asc.

20.15 Road, brs. SE. & NW. desc.

34.25 Gulch 50 lks. wide, course  $N. 60^{\circ} W.$  asc.

40.00 Set a granite stone  $24 \times 10 \times 6$  ins. 18 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. No bearings available.

59.00 Top of mountain ridge, brs. NE. desc.

80.00 Set a malpais stone  $36 \times 18 \times 10$  ins. 12 ins. in ground to bedrock in sand. stone marked T. 17 S. on NE. R. 18 E. on SE. faces with 3 notches on S. & E. edges, for cor. of secs. 15, 16, 21 & 22 and raise a mound of stone 4 ft. base 3 ft. high W. of cor. No bearings available. Land, mts. Soil, stony, gravelly, 2nd rate. No timber, undergrowth, Paleverde, dense mesquite in washes. Mts. land or land covered with dense underg'th 80.00 chs.

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$S. 89^{\circ} 53' E.$  on a random line bet. secs. 15 & 22.

40.00 Set temp.  $1/4$  sec. cor.

80.04 Intersect N. & S. line 23 lks. S. of cor. of secs. 14, 15, 22 & 23, whence I run.  $S. 89^{\circ} 57' W.$  on a true line bet. secs. 15 & 22. Over mts. land desc.

5.60 Gulch 20 lks. wide, course  $N. 15^{\circ} W.$  asc.; fence NE. and SW.

21.10 Ridge, brs. SE. & NW. desc.

33.50 Gulch 50 lks. wide, course  $N. 75^{\circ} W.$  asc.

40.02 Set a granite stone  $24 \times 12 \times 6$  ins. 18 ins. in the ground for  $1/4$  sec. cor. marked  $1/4$  on N. face and raise a md. of stone 2 ft. base  $1 1/2$  ft. high N. of cor. No bearing available.

45.50 Ridge, brs. SE. & NW. desc.

53.90 Gulch 20 lks. wide, course  $S. 30^{\circ} W.$  asc.

66.00 Top of mtn. ridge, brs. NE. & SW. desc. steep.

80.04 To cor. of secs. 15, 16, 21, & 22. Land mts. Soil, Stony gravelly 3rd rate. No timber. Undergrowth, mesquite, paleverde, greasewood. Mts. land 80.04 chs. At this cor. at noon, I set off  $3^{\circ} 22' N.$  on the decl. arc and obs. the sun on the mer. The resulting lat. is  $31^{\circ} 56' N.$



Chains.	
	<p>March 18, 1910; At 7h 20m a.m., l.m.t., I set off <math>31^{\circ}56'</math> N on the lat. arc; <math>1^{\circ}7'</math> S. on the decl. arc, and determine a meridian <sup>with the solar</sup> at the c. r. of secs. 15, 16, 21 and 22, Thence I run <math>N.0^{\circ}1'W.</math>, bet. secs. 15 and 16.</p> <p>Over mountainous land.</p> <p>Descend.</p>
26.00	Gulch, 10 lks. wide, course W.
	Ascend.
31.00	Ridge, bears E. and W.
	Descend.
34.00	Gulch, 30 lks. wide, course W.
	Ascend.
40.00	Set a granite stone 24x10x6 ins. 18 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face, and raise a mound of stone 3 ft. base, 2 ft. high W. of cor.
	Pits impracticable.
47.50	Gulch, 40 lks. wide, course $N.60^{\circ}W.$
	As cend.
56.00	Ridge, bears E. and W.
	Descend.
69.50	Wash, 2 chs. wide course W.
	As cend.
80.00	Set a granite stone, 18x10x5 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, from which
	A mesquite 18 ins. in diam. bears $S.77^{\circ}30'W.$ 482 lks. dist., marked T 17 S. R 18 E S 16 B T.
	A mesquite 12 ins. in diam. bears $N.71^{\circ}30'W.$ 421 lks. dist. marked T 17 S R 18 E S 9 B T.
	No other bearings available.
	dig pits 18x18x12 ins. in each sec. 5 $\frac{1}{2}$ ft. dist and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.
	Land mountainous.
	Soil 3d rate.
	Timber scattering mesquite.
	Mountainous land, <span style="float: right;">80.00 chs.</span>
	$N.89^{\circ}57'E.$ , on a random line bet. secs. 10 and 15.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.98	Intersect N. and S. line 21 lks. S. of cor. of secs. 10, 11, 14 and 15, thence I run $S.89^{\circ}48'W.$ on a true line, bet. secs. 10 and 15.
	Over mountainous land.
31.00	Enter wash, brs. S. 75 E.
39.00	Leave wash, 30 lks. wide, course S. $75^{\circ}W.$
39.99	Set a granite stone 16x8x6 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.
	Ascend. <span style="float: right;">Pits impracticable.</span>
52.40	Top of rocky point, slopes S.
	Descend.
66.16	Wash, 40. lks. wide, course NW.
68.50	Same wash, course SW.
79.98	To cor. of secs. 9, 10, 15 and 16.
	Land, broken.
	Soil, 3rd. rate.
	Timber, scattering mesquite.
	Mountainous land, covered with dense undergrowth. <span style="float: right;">79.98 Chs.</span>



17. Subdivisions of T. 17 S., R. 18 E.

Chains.	
	North 0°1' W. bet. secs. 9 and 10. Over mountainous land. Ascend.
4.30	Road, brs. E. and W.
30.00	Descend.
36.50	Gulch, 25 lks. wide, course NW.
38.50	Gulch, 25 lks. wide, course W.
	Ascend,
40.00	Set a granite stone 16x10x5 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. from which A mesquite 4 ins. diam. brs. S. 45°30' W. 124 lks. dist., marked 1/4 S. 90° BT.
	No other bearings available. Pits impracticable.
41.00	Top of bank.
80.00	Set a granite stone 18x10x6 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. edges, and dig pits 18x18x12 ins. in each sec. 5 1/2 ft. dist., and raise a mound of earth 4ft. base 2ft. high W. of cor. Land, mountainous or rolling. Soil, 3rd. rate. Timber, mesquite in washes. Mo untainous land covered with dense undergrowth.
	80.00 Chs.

	North 89°48' E. on a random line bet. secs. 3 and 10.
40.00	Set temp 1/4 sec. cor.
79.88	Intersect N. and S. line 24 lks. N of cor. of secs. 2, 3, 10 and 11, thence I run,
	South 89°58' W. on a true line bet. secs. 3 and 10. Over rolling land.
5.00	Wash, 40 lks. wide, course NW.
7.10	Wash, 60 lks. wide, course N. 20° E.
20.00	Ridge, brs. N. and S. Descend.
39.94	Set a limestone 16x10x8 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face and dig pits 18x18x12 ins. E. and W. 3ft. dist., and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high N. of cor.
79.88	To cor. of secs. 3, 4, 9 and 10. Land, rolling. Soil, 2nd. and 3rd. rate. No timber.

	North 0°1' W. bet. secs. 3 and 4. Over mountainous land. Descend.
3.00	Wash, 25 lks. wide, course NW. Ascend.
10.00	Ri dge, brs. SE. and NW. Descend,
14.74	Telegraph line par. to R.R. as below given.
14.76	R.R. fence.
16.47	Center of Southern Pacific R. R. brs. N. 63° E. and S. 63° W
16.70	Side track "Amole" brs. E. 3 chs.
17.53	Telephone line par. to R. R.
18.18	Fenc e to R. R. " " "
20.00	Gulch, 20 lks. wide, course, NW. Ascend.
21.50	Ridge, brs, SE. and NW.

<p>Chains.</p> <p>22.70</p> <p>25.50</p> <p>28.00</p> <p>40.00</p> <p>43.80</p> <p>47.50</p> <p>50.00</p> <p>53.80</p> <p>60.00</p> <p>78.97</p>	<p>Descend.</p> <p>Gulch, 30 lks. wide, course N. 60° W.</p> <p>Ascend.</p> <p>Ridge, brs. SE. and NW.</p> <p>Descend.</p> <p>Gulch, 20 lks. wide, course NW.</p> <p>Ascend.</p> <p>Top of ridge. brs. E. and W.</p> <p>Set a sandstone 18x14x8 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face from which a mesquite 4 ins. in diam. brs. N. 5°15' E. 111 lks. dist., marked 1/4 S 3 B T.</p> <p>No other bearings available. <i>of Stone</i></p> <p>Dig pits 18x18x12 ins. N. and S. 3ft. dist., and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high W. of cor.</p> <p>Road, brs. E. and W.</p> <p>Main wash 2 chs. wide, course W.</p> <p>Ascend.</p> <p>Road brs. E. and W.</p> <p>Wash, 25 lks. wide, course S. 75 W.</p> <p>Intersect N. bdy. 3.40 chs. N 89 21' E. of cor. of secs. 33 and 34, T.16 S.R.18 E.</p> <p>Set a granite stone 16x10x4 ins. 12 ins. in the ground for closing cor. of secs. 3 and 4 marked C C 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.</p> <p>Land mountainous.</p> <p>Soil, 3rd. rate.</p> <p>Timber, scattering mesquite.</p> <p>Mountainous land covered with dense undergrowth, exceptionally difficult to survey. 78.97 chs.</p> <p>March 18, 1910.</p>
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Chains.

September 15, 1908. At 8h On a.m., l.m.t., I set off 31° 55' N. on the lat. arc; 3° 3' N. on the decl. arc, and determine a meridian with the solar, at the cor. of secs. 28, 29, 32 and 33, Thence I run S. 0° 2' E. bet. secs. 32 and 33. Over mountainous land. Ascend along E. slope of ridge. Ridge, bears SE. and NW. Descend. Set a limestone 18x12x6 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. Gulch, 20 lks. wide, course NW. Ascend. Ridge, bears SE. and NW. Descend. Gulch 30 lks. wide, course course NW. Gulch, 30 lks. wide, course W. Ascend. Ridge, bears E. and W. Descend abruptly. Gulch 40 lks. wide, course N. 20° W. Intersect S. bdy. of the Tp. 146 lks. N. 89° 26' E. of the cor. of secs. 4, 5, 32 and 33, recently re-established by us, set a limestone 18x10x6 ins. 12 ins. in the ground, for closing cor. of secs. 32 and 33 marked C C on N. face with 4 grooves on E., and 2 grooves on W. face, and raise a mound of stone 3 ft. base, 2 ft. high N. of cor. Pits impracticable. Land very mountainous. Soil 4th rate. No timber. Mountainous land, exceptionally difficult to surveyk  
81.67 chs.

North 0° 2' W. bet. secs. 28 and 29. Over mountainous land. Ascend. Descend. 2.00 Main gulch 50 lks. wide, course N. 20° W. 17.30 Ascend abruptly. 20.00 Descend abruptly. 26.00 Gulch, 20 lks. wide, course W. Ascend, abruptly along W. slope. 30.00 Descend. 35.00 Gulch, 20 lks. wide, course W. Ascend. 40.00 Set a limestone 20x10x8 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. 45.00 High ridge, bears SE. and NW. Descend. 80.00 Set a limestone 20x10x4 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. edges and raise a mound of stone 3ft. base 2ft. high W. of cor. Pits impracticable. Land, mountainous. Soil, 3rd. rate. No timber. Mountainous land, exceptionally difficult to survey.  
80.00 Chs.

Cha ins.

BOOK 2230

East on a random line bet. secs. 21 and 28.

40.00 set temp. 1/4 sec. cor.

79.82 Intersect N. and S. line 5 lks. S. of cor. of secs. 21, 22, 27 and 28, thence I run S. 89° 58' W. on a true line bet. secs. 21 and 28.

Over mountainous land.

Descend.

1.60 Descend abruptly.

6.00 Bottom of canon, course NW.

Ascend abruptly.

6.50 Top of bank.

Ascend.

32.80 High ridge, bears N. and S.

Descend.

39.91 Set a sand stone 18x10x6 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.

44.00 Gulch, 30 lks. wide, course N.

Ascend.

49.30 Ridge, bears N. and S.

Descend.

53.60 Gulch, 20 lks. wide, course N.

Ascend.

57.80 Ridge, bears N. and S.

Descend.

59.20 Trail, bears SE. and NW.

71.30 Descend abruptly.

76.00 Ascend., from main gulch 100 chs. wide, course NW.

79.82 The cor. of secs. 20, 21, 28 and 29.

Land mountainous.

Soil 2d and 3d rate.

No timber.

Mountainous land covered with dense undergrowth, exceptionally difficult to survey. 79.82 chs.

September 15, 1908.

August 15, 1911; At 9h a.m., l.m.t., I set off 31° 56' N. on the lat. arc; 14° 17' N. on the decl. arc; and determine a meridian with the solar, at the cor. of secs. 20, 21, 28 and 29, thence I run N. 0° 2' W. bet. secs. 20 and 21.

Over mountainous land.

Descend Abruptly.

1.50 Gulch, 20 lks. wide, course NE.

Ascend abruptly.

6.00 Top of bank.

8.50 Descend abruptly.

13.00 Main gulch, 1 ch. wide, course NW.

Ascend very abruptly.

16.00 Top of bank.

Ascend ridge.

22.15 Trail, bears SE. and NW.

30.00 Ridge, bears SE. and NW.

Descend.

40.00 Set a granite stone 18x8x5 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.

The original 1/4 sec. cor. bears S. 79° W. 16 lks.

I destroy the old 1/4 sec. cor.

42.00 Gulch, 15 lks. wide, course W.

BOOK 2230

Chains.	
	Ascend.
43.25	Ridge, bears E. and W. Descend abruptly.
45.00	Gulch, 30 lks. wide, course N.75°W. Ascend very abruptly.
47.50	Ridge, bears E. and W. Descend abruptly.
63.00	Bottom.
67.00	Main gulch, 3 chs. wide, course N.70°W.
70.60	Ascend perpendicular bluff, 50ft. high.
71.00	Top of ridge, bears E. and W. Descend abruptly.
72.50	Gulch, 15 lks. wide, course W. Ascend.
77.50	Wire fence hrs. E. and W.
80.00	Set a granite stone 18x8x6 ins. 12 ins. in the ground, for cor. of secs. 16, 17, 20 and 21 marked with three notches on S. and 4 notches on E. edge, and raise a mound of stone 3ft. base 2ft. high W. of cor. Pits impracticable. The original sec. cor., which I destroy bears S. 60°W. 36 lks. dist. Land, mountainous, very broken. Soil, 3rd and 4th rate. No timber. Mountainous land covered with dense undergrowth, exceptionally difficult to survey. 80.00 Chs.

August 15; At this cor. I set off 14° 15 N. on the  
decl. arc and at noon observe the sun on the meridian  
the resulting lat. is 31° 56' N.

40.00	North 89° 58' E. on a random line bet. secs. 16 and 21. Set temp. 1/4 sec. cor.
79.80	Intersect N. and S. line 38 lks. S. of cor. of secs. 15, 16, 21 and 22, thence I run S. 89° 42' W. on a true line bet. secs. 16 and 21. Over rolling land.
39.90	Set a granite stone 20x10x7 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 The old 1/4 cor., which I destroy, bears S. 65° W. 30 lks.
45.00	Gulch, 30 lks. wide, course N. 60° W. Ascend
79.80	The cor. of secs. 16, 17, 20 and 21. Land, rolling and broken. Soil, 3rd. rate. No timber.

18.40	North 0° 2' W. bet. secs. 16 and 17. Over broken land. Gulch, 60 lks. wide, course W. Ascend.
32.00	Ridge, bears E. and W. Descend.
40.00	Set a granite stone 16x8x4 ins. 11 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 1/2 ft. dist. and raise a mound of earth and stone 3 1/2 ft. base 2ft. high W. of cor. The original 1/4 sec. cor. which I destroy bears S. 70° W. 27 lks. dist.

## Chains.

BOOK 2230

42.00 Descend.  
 51.00 Bottom of slope.  
 53.50 Wash, 1 ch. wide, course W.  
 55.00 Ascend abruptly.  
 62.20 Road, bears NE. and SW.  
 Descend.  
 78.00 Gulch, 10 lks. wide, course W.  
 Ascend.  
 80.00 Set a granite stone 18x8x5 ins. 12 ins. in the ground  
 for cor. of secs. 8, 9, 16 and 17. marked with 4  
 notches on S. and E. edges from which  
 A mesquite 12 ins. in diam. bears S. 55 $\frac{1}{2}$ ° W. 511 lks. dist.  
 marked T 17 S R 18 E S 17 B T. No other bearings  
 available. Dig pits 18x18x12 ins. in each sec. 5 1/2  
 ft. dist. and raise a mound of earth and stone 4 ft.  
 base 2 ft. high W. of cor.  
 Land, rolling and broken.  
 Soil, 2nd rate.  
 Timber, scattering Mesquite.  
 August 15, 1911.

August 16, 1911; At 8h a.m., l.m.t.,  
 I set off 31° 57' N on the lat. arc 13° 59' N. on the decl.  
 arc. and determine a meridian with the solar at the  
 above cor. thence I run  
 N. 89° 42' E. on a random line bet. secs.  
 9 and 16.  
 40.00 Set temp. 1/4 sec. cor.  
 79.86 Intersect N. and S. line 28 lks. N. of the cor. of secs.  
 9, 10, 15 and 16, thence I run  
 S. 89° 54' W. on a true line bet. secs. 9 and 16.  
 Over rolling land.  
 Descend gradually.  
 38.00 Road, bears N. 75° E. and S. 75° W.  
 39.93 Set a granite stone 18x8x6 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.  
 The original 1/4 sec. cor. which I destroy, bears  
 East 10 lks. dist.  
 79.86 The cor. of secs. 8, 9, 16 and 17.  
 Land, rolling.  
 Soil, 2nd rate.  
 No timber.

N. 0° 2' W. bet. secs. 8 and 9.  
 Over mountainous land.  
 1.00 Ridge, bears E. and W.  
 Descend.  
 4.20 Gulch, 20 lks. wide, course W.  
 Ascend.  
 14.35 Road, bears E. and W.  
 24.00 Gulch. 20 lks. wide, course W.  
 Ascend.  
 29.50 Ridge, bears E. and W.  
 Descend.  
 35.00 Gulch, 20 lks. wide, course W.  
 Ascend.  
 40.00 Set a limestone 18x10x6 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 1/2 ft. dist. and  
 raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high

Chains.

W. of cor.

The original 1/4 sec. cor. which I destroy bears

W. 10 lks..

62.00

Descend.

65.90

Telegraph line parallel to railroad.

65.95

Railroad right of way fence parallel to railroad.

66.00

Wash, 30 lks. wide, course NW.

Ascend.

67.55

Center of Southern Pacific railroad track, bears N. 75° E. and S. 75° W. on a 5° curve to left NE. and to right SW.

68.35

Telephone line parallel to railroad.

68.60

Right of way fence parallel to railroad.

80.00

Set a granite stone 20x12x6 ins. 15 ins. in the ground for cor. of secs. 4, 5, 8 and 9, marked with 5 notches on S. and 4 notches on E. edge from which

A mesquite 4 ins. in diam. bears S. 5°45' E. 25 lks. dist. marked T 17 S R 18 E S 9 B T.

A mesquite 12 ins. in diam. bears N. 75°45' W. 200 lks. dist. marked T 17 S R 18 E S 5 B T.

No other bearings available. 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.

This sec. cor. is identical with the original cor. Land, mountainous.

Soil, 3rd rate.

Timber, scattering mesquite.

Mountainous land.

80.00 Chs.

40.00

N. 89°54' E. on a random line bet. secs. 4 and 9.

79.82

Set temp. 1/4 sec. cor.

Intersect N. and S. line 12 lks. S. of the cor. of secs. 3, 4, 9 and 10 thence I run

S. 89°49' W. on a true line bet. secs. 4 and 9.

Over rolling land.

7.00

Wash, 20 lks. wide, course NW.

Ascend.

14.00

Wash, 25 lks. wide, course NW.

35.50

Gulch, 10 lks. wide, course NW.

39.91

Set a limestone 16x10x6 ins. 11 ins. in the ground for 1/4 sec. cor. mark d 1/4 on N. face, and dig pits 18x18x12 ins. E. and W. of stone 3 1/2 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high N. of cor.

The original 1/4 sec. cor. which I destroy bears S. 1°30' E. 21 lks. dist.

43.00

Gulch, 15 lks. wide, course NW.

Ascend.

57.55

Wire right of way fence parallel to railroad.

59.50

Southern Pacific railroad track, bears N. 67°25' E. and S. 67°25' W.

60.00

Telegraph line, parallel to railroad.

61.35

Wire right of way fence parallel to railroad.

79.82

The cor. of secs. 4, 5, 8 and 9.

Land, rolling.

Soil, 2nd rate.

Timber, scattering mesquite.

Chains.

BOOK 2230

23<sup>1</sup>/<sub>2</sub>

- N. 0° 2' W. bet. secs. 4 and 5.  
Over rolling land.
- 23.15 Gulch, 25 lks. wide, course NW.
- 30.00 Descend.
- 40.00 Set a granite stone 18x10x5 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face, from which  
A mesquite 8 ins. in diam. bears S. 23° 30' E. 52 lks. dist. marked 1/4 S 4 B T.  
A mesquite 5 ins. in diam bears N. 27° 30' W. 52 lks. dist. marked 1/4 S 5 B T.
- 43.00 Main wash, 2 chs. wide, course W.
- 53.10 Road, bears E. and W.
- 77.00 Wash, 50 lks. wide, course SW.
- 78.52 Intersect N. bdy. of Tp. 3. 77 chs. N. 89° 36' E. of cor. of secs. 31, 32 and 33, <sup>165. Rise</sup> recently re-established by us.  
I set a granite stone 16x10x6 ins., 11 ins. in the ground for closing cor. of secs. 4 and 5, marked C C on S. with 4 notches on E. and 2 notches on W. edge, from which



Chains.

A mesquite 4 ins. in diam. bears  $S47^{\circ}45'E$ . 8 lks. dist. marked T 17 S R 18 E S 4 B T.  
 A mesquite 10 ins. in diam. bears  $S.23^{\circ}W$ . 115 lks. dist. marked T 17 S. R 18 E S 5 B T.  
 Land rolling and broken.  
 Soil 2d and 3d rate.  
 Timber mesquite.  
 Mountainous land, covered with dense undergrowth 78.52 chs.  
 Connecting line " " " " 3.77 chs.  
 August 16, 1911.

September 17, 1908; At 8h 0m, a.m., l.m.t., I set off  $31^{\circ}54'$  on the lat. arc;  $2^{\circ}17'N$  on the decl. arc, and determine a meridian with the solar, at the cor. of secs 29, 30, 31 and 32, and run thence,  $S.0^{\circ}2'E$ . bet. secs. 31 and 32.  
 Over mountainous land.  
 Descend.  
 .75 Descend abruptly.  
 2.00 Gulch, 15 lks. wide, course  $N.60^{\circ}W$ .  
 Ascend abruptly.  
 4.50 Ridge, bears SE. and NW.  
 Descend.  
 7.00 Gulch, 20 lks. wide, course NW.  
 Ascend.  
 13.00 Same gulch, course  $N.10^{\circ}E$ .  
 Ascend abruptly.  
 17.00 Top of bank.  
 30.00 Ridge, slopes W.  
 33.00 Gulch, 20 lks. wide, course  $N.60^{\circ}W$ .  
 Ascend abruptly.  
 38.50 Ridge, bears  $\bullet$ .  
 Descend.  
 40.00 Set a limestone  $18 \times 10 \times 5$  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.  
 49.00 Gulch, 20 lks. wide, course W.  
 Ascend abruptly.  
 58.00 Ridge, bears E, and W.  
 64.00 Gulch 75 lks. wide, course W.  
 Ascend.  
 75.00 Rocky ridge, bears SE. and NW.  
 Descend.  
 82.12 Intersect S. bdy of Tp. 2.33 chs.  $N.89^{\circ}21'E$ . of cor. of secs. 5, 6, 31 and 32,  
 I Set a trachite stone  $24 \times 10 \times 6$  ins. 18 ins. in the ground for closing cor. of secs. 31 and 32, marked C C on N. face with 5 grooves on E. and 1 grove on W. face, and raise a mound of stone 3 ft. base 2 ft. high, N. of cor.  
 Land mountainous.  
 Soil 4th rate.  
 Timber scattering mesquite.  
 Mountainous land, exceptionally difficult to survey,  
 82.12 chs.

Chains.		
	N. 0° 2' W., bet. secs. 29 and 30.	
	Over mountainous land, through dense undergrowth.	
0.50	Descend abruptly.	
3.00	Wash, 40 lks. wide, course N. 15° E.	
Enter	Cienega Creek, course N. 10° E.	
11.00	Leave Cienega Creek.	
19.00	Irrigating ditch, course N. 10° E.	
22.00	Ascend steep bank.	
32.00	Descend abruptly.	
34.00	Gulch, 20 lks. wide, course E.	
	Ascend.	
40.00	Set malpais stone 16x10x5 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.	
70.50	Wire fence, bears E. and W. enter Billingsgate's field.	
76.00	Top of ridge, bears N. 20° W.	
80.00	Set a granite stone 20x10x6 ins. 15 ins. in the ground for cor. of secs. 19, 20, 29 and 30 marked with 2 notches on S. and 5 notches on E. edge and raise a mound of stone 3 ft. base 2 ft. high W. of the cor.	
	Land mountainous.	
	Soil 3d rate.	
	No timber.	
	Mountainous land, covered with dense undergrowth, exceptionally difficult to survey.	80.00 Chs.
<hr/>		
	East on a random line bet. secs. 20 and 29.	
40.00	Set temp. 1/4 sec. cor.	
79.82	Intersect N. and S. line 12 lks. S. of cor. of secs. 20, 21, 28 and 29, whence I run S. 89° 55' W. on a true line bet. secs. 20 and 29.	
	Over mountainous land, through dense undergrowth.	
	Ascend.	
17.80	Ridge bears SE. and NW.	
	Descend.	
34.30	Gulch 50 lks. wide, course N. 15° W.	
	Ascend.	
38.80	Descend.	
39.91	Set a granite stone 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 impractical.	
57.30	Descend abruptly.	
58.80	Cienega wash, 120 lks wide, course N. 15° E.	
61.80	Enter field, Billingsgate's house bears S. 30° W. 12 chs. dist.	
69.50	Irrigating ditch, course N. 10° E. Leave field.	
72.80	Ascend steep hill.	
79.82	The cor. of secs. 19, 20, 29 and 30.	
	Land mountainous.	
	Soil 1st. and 3d rate.	
	No timber. Undergrowth mesquite and grease wood.	
	Mountainous land covered with dense undergrowth, Exceptionally difficult to survey.	79.82 Chs.
<hr/>		
	West bet. secs. 19 and 30.	
	Over mountainous land.	
	Ascend abruptly.	
3.15	Wire fence bears N. and S. Leave pasture.	
3.50	Ridge, bears N. and S.	
	Descend.	
20.00	Gulch, 20 lks. wide, course NW.	
	Ascend.	
32.00	Ridge, bears SE. and NW.	

Chains.

BOOK 2230

40.00	Descend. Set a granite Stone 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 impractical.
49.20	Gulch 40 lks. wide, course N. 30° E. Ascend.
53.00	Ridge, bears N. and S. Descend.
54.75	Gulch, 20 lks. wide, course N. Ascend.
64.50	Ridge, bears NE. and SW. Descend.
84.00	Intersect W. bdy. of Tp. 3.84 chs. N. 0° 6' W. of the cor. of secs. 24 and 25, T. 17 S., R. 17 E. I set a granite stone 18x10x6 ins. 12 ins. in the ground for closing cor. of secs. 19 and 30 marked C C on E. with 4 grooves on N. and 2 grooves on S. face, and raise a mound of stone 3 ft. base 2 ft. high E. of cor. Pits impracticable. Land mountainous. Soil 3d rate. No timber, undergrowth of grease wood and mesquite. Mountainous land, covered with dense undergrowth, exceptionally difficult to survey, 84.00 Chs. September 17, 1908.
	August 16, 1911; At 10 a.m., l.m.t., I set off 31° 56' on the lat. arc; 13° 56' N. on the decl. arc, and determine a meridian with the solar at the cor. of secs. 19, 20, <del>29</del> and 30. Thence I run N. 0° 2' W. bet. secs. 19 and 20. Over mountainous land. Ascend.
6.25	Wire fence, bears N. 25° E. and S. 25° W., at 8 chs. NE. fence turns E. to Cienega Creek. Leave pasture. Slope, bears NE. and SW. Descend.
16.00	Gulch, 30 lks. wide, course NW. Ascend.
19.00	Ridge, bears SE. and NW. Descend.
23.20	Gulch, 20 lks. wide, course NW. Ascend.
30.00	Ridge, bears SE. and NW. Descend.
36.00	Gulch, 25 lks. wide, course NW. Ascend.
40.00	Set a limestone 18x12x6 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. 43° E. 12 lks. dist.
43.00	Ridge, bears SE. and NW. Descend.
61.00	Gulch, 30 lks. wide, course NW. Ascend.
80.00	Set a limestone 18x12x10 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 raise a mound of stone 3 ft. base 2 ft. high W. of cor. Pits impracticable. The original sec. cor. which I destroy, bears N. 40° E. 25 lks. dist.

Chains.

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Land mountainous.  
Soil 3d rate.  
No timber, undergrowth of greasewood and mesquite.  
mountainous land, covered with dense undergrowth,  
exceptionally difficult to survey. 80.00 Chs.

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N. 89° 55' E., on a random line bet. secs. 17 and 20.  
40.00 Set temp. 1/4 sec. cor.  
79.58 Intersect N. and S. line 20 lks. N. of cor. of secs.  
16, 17, 20 and 21, thence I run  
N. 89° 56' W., on a true line bet. secs. 17 and 20, descend.

5.00 Wire fence NW and SE.  
15.10 Road, bears SE. and NW.  
23.00 Wash, 2 chs. wide, course NW.  
29.00 Cienega Wash, course N. 15° W.  
37.50 Leave Cienega Wash, enter field, Josefa Villa owner.  
39.25 Irrigating ditch, course NW.  
39.79 Set a granite stone 16x6x4 ins. 12 ins. in the ground  
for 1/4 sec. cor. marked 1/4 on N. face. Dig pits  
18x18x12 ins. E. and W. of cor. 3ft. dist. and raise a  
mound of earth 3 1/2 ft. base 1 1/2 ft. high N. of cor.  
The original 1/4 cor. which I destroy bears N. 68° W.  
66 lks. dist.

55.00 Wire fence bears N. and S. leave field.  
55.30 Road, bears N. and S.  
57.00 House of Josefa Villa, bears N. 4 chs. dist.  
Ascend steep ridge.

70.50 Top of ridge, bears N. and S.  
74.00 Descend.  
79.58 The cor. of secs. 17, 18, 19 and 20.  
Land, mountainous and rolling.  
Soil, 1st and 3rd rate.  
Timber, mesquite; along the washes.  
Mountainous land, covered with dense undergrowth,  
exceptionally difficult to survey. 79.58 Chs.  
August 16, 1911.

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August 17, 1911; I set off 31° 56' Non the lat. arc  
13° 41' Non the decl. arc and at 8h 15m a.m., l.m.t.  
determine a meridian with the solar at the above cor.  
and run thence

West bet. secs. 18 and 19.  
Over mountainous land.  
Descend along S. slope of ridge.

28.50 Gulch, 50 lks. wide, course N.  
29.00 Ascend.  
40.00 Set a limestone 16x8x6 ins. 12 ins. in the ground for  
1/4 sec. cor. marked 1/4 on N. face, from which  
A cedar 4 ins. in diam. bears S. 5 W. 36 lks. dist.  
marked 1/4 S 19 B T.  
A cedar 14 ins in diam. bears N. 32° 30' W. 112 lks. dist.  
marked 1/4 S 18 B T.  
Raise a mound of stone 3ft. base 2ft. high N. of cor.  
The original 1/4 sec. cor. which I destroy, bears  
N. 69° E. 30 lks. dist.

58.50 Gulch, 40 lks. wide, course NE.  
82.00 Ridge, bears N. and S.  
83.40 Inresect W. bdy. of TP. 3.44 chs. N. 0° 11' W. of cor. of  
secs. 13 and 24, T 17 S 17 E.

Set a limestone 20x12x8 ins. 15 ins. in the ground  
for closing cor. of secs. 18 and 19 marked C C on E.  
With 3 grooves on N. and S. faces, and raise a mound of

BOOK 2230

Chains.

stone 3ft. base 2ft. high E. of cor.  
 This closing cor. is identical with the original cor.  
 Land, mountainous.  
 Soil, 3rd rate.  
 Timber, scattering cedar and mesquite.  
 Mountainous land. 83.40 Chs.

N. 0° 2' W. bet. secs. 17 and 18.

Over mountainous land.

Ascend.

2.00 Ridge, bears E. and W.

Descend.

6.00 Gulch, 20 lks. wide, course N 75° W.

Ascend

11.00 Ridge, bears NE. and SW.

Descend.

32.00 Descend abruptly.

40.00 Set a limestone 18x8x5 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.

The original 1/4 sec. cor. bears N. 48° E. 13 lks. dist. I destroy this old cor.

44.00 Gulch, 10 lks. wide, course E.

Ascend abruptly.

46.25 Ridge, bears E. and W.

Descend abruptly.

48.20 Gulch, 10 lks. wide, course E.

Ascend abruptly.

54.00 Ridge, bears E. and W.

Descend abruptly.

58.00 Gulch, 30 lks. wide, course E.

Ascend. abruptly.

63.60 Ridge, bears E. and W.

Descend abruptly.

68.00 Bottom.

69.50 Ascend abruptly.

71.50 Ridge, slopes E.

Descend abruptly.

74.00 Bottom.

76.50 Ascend abruptly.

78.50 Ridge, slopes NE.

Descend abruptly.

80.00 Set a granite stone 20x10x5 ins. 15 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. From which

A mesquite 12 ins. in diam. bears N. 81° 30' E. 322 lks. dist. marked T 17 S R 18 E S 8 B T.

No other bearings available.

I raise a mound of stone 3ft. base 2ft. high W. of cor. Pits impracticable.

Land, very mountainous.

Soil, 4th rate.

Timber, mesquite along the wash.

Mountainous land exceptionally difficult to survey.

80.00 Chs.

Note: This sec. cor is identical with the original cor.

S. 89° 56' on a random line bet. secs. 8 and 17.

40.00 Set temp. 1/4 sec. cor.

79.60 Intersect N. and S. line 14 lks. N. of cor. of secs. 8, 9, 16 and 17. thence I run.

BOOK 2230

Chains.	N. 89° 50' W. on a true line bet. secs. 8 and 17. Over mountainous land.
30.00	Descend.
34.50	Right of way fence, parallel to railroad. Descend.
35.40	Southern Pacific railroad, bears N. 22° E. and S. 22° W. on culvert No 1015 D.
36.90	Telegraph line parallel to railroad.
37.90	Right of way fence, parallel to railroad.
39.20	Descend steep ridge, bears N. 60° W. and S. 60° E.
39.80	Set a limestone 16x12x8 ins. 11 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.
46.00	The original 1/4 sec. cor. bears S. 89° E. 20 lks. dist. Gulch, 30 lks. wide, course N. 60° W. Ascend.
51.00	Right of way fence parallel to track.
52.00	Telegraph line, parallel to track.
52.70	Center of Southern Pacific track, bears S. 22° E. on 10° curve to left and N. 22° W. 300 ft. thence easy curve left.
54.45	Right of way fence, parallel to track. Descend.
74.00	Cienega, 3 chs. wide, course N.
77.00	Leave Cienega. Ascend.
79.60	The cor. of secs. 7, 8, 17 and 18. Land, mountainous. Soil, 3rd rate. Timber, scattering mesquite. Mountainous land, covered with dense undergrowth, exceptionally difficult to survey, 79.60 Chs.
6.00	West on a true line bet. secs. 7 and 18. Over mountainous land. Ascend very abruptly.
36.40	Ridge, bears N. and S. Descend.
40.00	Gulch, 30 lks. wide, course N. 15° W. Ascend. Set a limestone 18x8x6 ins. 12 ins. in the ground, for 1/4 sec. cor. marked 1/4 on N. face from which A cedar 10 ins. in diam. bears S. 38° 45' E. 25 lks. dist. marked 1/4 S 18 B T. A mesquite 6 ins. in diam. bears N. 44° 45' E. 123 lks. dist. marked 1/4 S 7 B T. The original 1/4 sec. cor., which I destroy, bears N. 76° E. 48 lks.
51.00	Ridge, bears N. and S. Descend.
83.14	Intersect w. bdy. of Tp. 3.60 chs. N. 0° 29' E. of corner of secs 12 & 13 T. 17 S., R. 17 E., recently re-established by us. I set a limestone 20x8x6 ins. 15 ins. in the ground, for closing cor. of secs. 7 and 18, marked C C on E. with 4 grooves on S. and 2 grooves on N. face, from which A cedar 8 ins. in diam. bears S. 2° 45' E. 295 lks. dist. marked T 17 S R 18 E S 18 B T. No other bearings available. Dig pits 24x18x12 ins. crosswise on each line, N. and S. 3 ft. and E. of stone 7 ft. and raise a mound of stone and earth 4 ft. base 2 ft. high E. of cor. The original C.C. which I destroy, bears S. 20 lks. dist. Land mountainous. Soil 3d and 4th rate. Timber cedar and mesquite. Mountainous land, covered with dense undergrowth, exceptionally difficult to survey. 83.14 Chs. August 17, 1911.

Chains.	
	<p>March 22, 1910; At 7h 20m, a.m., l.m.t., I set off 31° 57' N on the lat. arc; 0° 27' N. on the decl. arc. and determine a meridian with the solar, at the cor. of secs. 7, 8, 17 and 18, thence I run N. 0° 2' W. bet. secs. 7 and 8</p> <p>Over mountainous land. Descend.</p> <p>7.15 11.00 Enter Cienega, course N. 19.00 Leave Cienega. 37.00 Gulch 20 lks. wide, course SW. Ascend. 39.70 Right of way fence, parallel to track. 40.00 Set a sandstone 20x12x6 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. 43.35 Center of Southern Pacific railroad track bears S. 34° E. 30 chs. curves to right, and N. 34° W., 2 chs, curves to left. 44.00 Buel Siding parallel to main track. 44.55 Telegraph line, parallel to track. 46.00 Right of way fence, parallel to track. 77.85 Gulch 15 lks. wide course SW. Ascend. 79.35 Telephone line bears S. 65 E., and N. 65° W. 80.00 Set a granite stone, 18x8x6 ins. 12 ins. in the ground, for cor. of secs. 5, 6, 7 and 8, marked with 5 notches on S. and E. edges, 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. Soil 3d rate. Timber scattering mesquite. Mountainous land. 80.00 chs.</p>
40.00	<p>East onto random line bet. secs. 5 and 8. Set temp. 1/4 sec. cor. 79.76 Intersect N. and S. line at the cor. of secs. 4, 5, 8 and 9, thence I run W. on a true line bet. secs. 5 and 8. Over rolling land. 17.50 Wash, 30 lks. wide, course S. 60 W. 28.30 Wash, 25 lks. wide, course SW. 39.88 Set a sandstone <del>16x8x6</del> 16x8x6 ins. 11 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face, from which A mesquite 8 ins. in diam. bears S. 51° 30' E. 422 lks. dist., marked 1/4 S 8 B T. A mesquite 4 ins. in diam. bears N. 75° 30' W. 177 lks. dist., marked 1/4 S 5 B T. 67.00 Wash, 15 lks. wide, course S. 30° W. 79.76 The cor. of secs. 5, 6, 7 and 8. Land, rolling. Soil, 3rd. rate. Timber, scattering mesquite. Land, covered with undergrowth of mesquite and cacti. 79.76 Chs.</p>
1.00	<p>West on a true line bet. secs. 6 and 7. Over rolling and broken land. Telephone line bears S. 70° E. and N. 70° W. 40.00 set a sandstone 16x10x8 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face, dig pits 18x18x12 ins. E. and W. of stone 3ft. dist., and raise a mound of</p>

Chains.

earth 3 1/3 ft. base 1 1/2 ft. high N. of cor.  
 42.00 Descend.  
 43.10 Right of way fence, parallel to track.  
 43.75 Telegraph line, parallel to track.  
 45.10 Southern Pacific Railroad, bears S. 21° 20' E. and N. 21° 20' W.  
 50.00 Bottom of slope.  
 82.80 Intersect W. bdy. of Tp. 238 lks. N 0° 8' E. of cor. of secs. 1 & 12, T. 17 S. R. 17 E., recently re-established by us. I set a sandstone 20x8x5 ins. 15 ins. in the ground for closing cor. of secs. 6 and 7. marked C C on E. face with 1 groove on N. and 5 grooves on S. face, from which A mesquite 4 ins. in diam. bears N. 81° 15' E. 75 lks. dist. marked T 17 S R 18 E S 6 B T. A mesquite 4 ins. in diam. bears S. 39° 15' E. 76 lks. dist., marked T 17 S R 18 E S 7 B T. Land, rolling and broken. Soil, 2nd. and 3rd. rate. Timber, mesquite. Land covered with dense undergrowth of mesquite and cacti  
 82.80 Chs.

N. 0° 2' W. bet. secs. 5 and 6.  
 Over rolling and broken land.  
 Ascend.  
 6.00 Ridge, bears E. and W.  
 Descend.  
 40.00 Set a granite stone 18x10x6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face, from which An Ironwood 8 ins. in diam. bears N. 7° 30' E. 146 lks. dist. marked 1/4 S 5 B T. A mesquite 8 ins. in diam., bears N. 59° 30' W. 274 lks. dist. marked 1/4 S 6 B T.  
 43.00 Main wash, 3 chs. wide, course W.  
 52.00 Wash, 25 lks. wide, course SW.  
 Ascend.  
 60.85 Road, bears E. and W.  
 78.12 Intersect N. bdy. of Tp. 381 lks. N. 89° 34' E. of cor. of secs 31 & 32 T. 16 S. R. 18 E., recently re-established by us. I set a granite stone 18x8x5 ins. 12 ins. in the ground, for closing cor. of secs. 5 and 6, marked CC on S. face, with 5 grooves on E. and 1 groove on W. face, dig pits 24x18x12 ins. crosswise on each line E. and W. 3 ft. and S. of stone 7 ft. dist. and raise a mound of earth and stone 4 ft. base 2 ft. high S. of cor. Land rolling and broken. Soil 3d rate Timber scattering mesquite.  
 March 22, 1910.

General Description.

This Tp. is broken and cut by many gulches and small canons, Generally the land is rocky and gravelly and unfit for agricultural purposes; along the Cienega and the big washes the land is a rich loam. There is good grass throughout the Tp. There is scattering mesquite timber over the Tp. and in places it is of very dense growth There is one settler each on secs. 7, 17, 28 and 29. Wickenburg, Ariz. March 10, 1909 and May 12, 1910.

*Fancis Jacobs* U.S.D.S.



LIST OF NAMES

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 Corrections  
and changes

showing the respective capacities in which they acted:

- Calletano Villa \_\_\_\_\_, Chainman.
- Francisco Patino \_\_\_\_\_, 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 Corrections and changes of  
J. 17 S. R. 18 E

\_\_\_\_\_ of the Gila and  
Salp River Bas and 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
- Calletano Villa \_\_\_\_\_, Chainman.
  - Francisco Patino \_\_\_\_\_, Chainman.
  - \_\_\_\_\_, Moundman.
  - \_\_\_\_\_, Moundman.
  - \_\_\_\_\_, Axman.
  - \_\_\_\_\_, Axman.
  - \_\_\_\_\_, Flagman.

Subscribed and sworn to before me this 17  
day of August, 1911

Francis B Jacobs  
U.S. Deputy Surveyor



FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

33  
BOOK 2230

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

J. 17 S. R. 18. 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.

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 the

Subdivisions of J 17 S. R. 18 E

showing the respective capacities in which they acted:

- Jim A Kellis ..... , Chainman.
- Nicolas A Sanchez ..... , Chainman.
- Nicolas A Sanchez ..... , Moundman.
- ..... , Moundman.
- ..... , Axman.
- ..... , Axman.
- Jim A Kellis ..... , 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 J. 17 S R 18 E

..... of the Gila and Salt River Bas and 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.
- Nicolas A. Sanchez ..... , Chainman.
- Nicolas A. Sanchez ..... , Moundman.
- ..... , Moundman.
- ..... , Axman.
- ..... , Axman.
- ..... , Flagman.

Subscribed and sworn to before me this 23 day of March, 1900

Francis Jacobs



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BOOK 2230

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Francis 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. 17 S. R 18 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 Jacobs  
United States Deputy Surveyor.

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

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



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.

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 the Subdivisions of T. 17 S. R. 18 E.

showing the respective capacities in which they acted:

- Jim A. Kellis ..... Chainman.
- Harvey H. Lake ..... Chainman.
- Narry S. Young ..... Moundman.
- ..... Moundman.
- Fred C. Roberts ..... 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. 17 S. - R. 18 E.

..... of the Gilaud Salt River Base and 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

- Jim A. Kellis ..... Chainman.
- Harvey H. Lake ..... Chainman.
- Narry S. Young ..... Moundman.
- ..... Moundman.
- Fred C. Roberts ..... Axman.
- ..... Axman.
- ..... Flagman.

Subscribed and sworn to before me this 21 day of September, 1908

Francis Jacobs  
Notary Public



My commission expires September 20, 1911

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

*Francis B. Jacobs and Daniel J. Curry* United States Deputy Surveyors, 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*, 190*8*, we have well, faithfully, and truly, in ~~my~~ <sup>our</sup> own proper persons, 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 *T. 10 N., R. 15 E., T. 2 S., R. 12 E., - T. 11 S., R. 14 E., T. 17 S., R. 18 E., - T. 24 S., R. 15 E., - and T. 22 S., R. 28 E.*

of the *Silver 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~~ <sup>us</sup>, and under my direction; and ~~I~~ <sup>we</sup> 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*  
*Daniel J. Curry*  
United States Deputy Surveyors,

Subscribed by said *Francis B. Jacobs* and *Daniel J. Curry*, and sworn to before me }  
this *8th* day of *March*, 190*9*.

*Mary A. Boyd*  
Notary Public

 My commission expires Nov. 27th 1912.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

*Thomas Cary* Nov. 23, 1901

The foregoing field notes of the survey of *the Outlines of T. 17 S. R. 18 E., G. and S. R. Meridian, Arizona*

executed by *Francis B. Jacobs and Daniel J. Curry, M.D.D.P's* under ~~his~~ <sup>joint</sup> contract No. *148*, dated *March 20*, 190*8*, 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.