

Accepted, Dept. Letter E. Ref. 8-1910
#8

Book L.

2191 BOOK 2191
FIELD NOTES

OF THE SURVEY OF THE

2191

2191

Extension and Subdivision lines
of

T. 22 S. R. 9 E.

2191

Of the Gila ^{2d} Salt River Base Meridian,
Arizona

AS SURVEYED BY

Philip Conzen, United States Deputy Surveyor,

Under his Contract No. 144, dated April 11, 1907

Survey commenced ~~December 20th~~ November 1st, 1909

Survey completed December 23rd 19th, 1909

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BOOK 2191

NAMES AND DUTIES OF ASSISTANTS.

Budd Dozier - Chairman

Homer Batte - Chairman

Manuel Salazar - Moundman

Manuel Salazar - Taxman

Esteban Lopez - Plagman

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BOOK 2191

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PRELIMINARY OATHS OF ASSISTANTS.

WE, Budd Dozier and Homer Batte
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 exteriors and subdivision lines of
T. 22 S. R. 9 E

Budd Dozier, Chainman

Homer Batte, Chainman.

Subscribed and sworn to before me this 1st
day of November, 1909



W. G. Power

Notary Public, Flora County, Arizona Territory
My Commission Expires May 10th, 1912.

WE, Manuel Salazar
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 exteriors and subdivision lines of
T. 22 S. R. 9 E

Manuel Salazar, Moundman.

_____, Moundman.

Subscribed and sworn to before me this 1st
day of November, 1909



W. G. Power

Notary Public, Flora County, Arizona Territory
My Commission Expires May 10th, 1912.

WE, Manuel Salazar
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

the exteriors and subdivision lines of
T. 22 S. R. 9 E

Manuel Salazar, Axman.

_____, Axman.

Subscribed and sworn to before me this 1st
day of November, 1909



W. G. Power

Notary Public, Flora County, Arizona Territory
My Commission Expires May 10th, 1912.

I, Esteban Lopez, 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 exteriors and subdivision lines of
T. 22 S. R. 9 E

Esteban Lopez, Flagman.

Subscribed and sworn to before me this 1st
day of November, 1909



W. G. Power

Notary Public, Flora County, Arizona Territory
My Commission Expires May 10th, 1912.

Subdivision of Township 22 S., Range 9 East.

Chains

Survey commenced November 30, 1909, and executed with a Young & Sons light mountain transit, with Smith's solar attachment, No. 7934. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

The instrument was examined, tested on the true meridian at Phoenix, found correct, and was approved by the Surveyor General for Arizona, November 1, 1909.

I examine the adjustments of the transit, and correct the level and collimation errors, then, to test the solar apparatus, by comparing its indications, resulting from solar observations made during a.m. and p.m. hours, with a meridian determined by observations on Polaris, I proceed as follows:

At the cor. of Tps. 22 and 23 S., Rs. 9 and 10 E., latitude $31^{\circ} 28' N.$, longitude $111^{\circ} 23\frac{1}{2}' W.$, I set off $31^{\circ} 28' N.$, on the lat. arc, $21^{\circ} 37\frac{1}{2}' S.$, on the decl. arc, and at 4h 0 m., p.m., l.m.t., determine with the solar a meridian and mark a point thereof, on a stone firmly set in the ground, 5 chs. N. of the cor. November 30, 1909.

December 1, 1909, At 2h 46.0 m. by my watch, which is correct, I observe Polaris at western elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined, on a peg driven in the ground, 5 chs. N. of my station.

At 7h. 0m., a.m., l.m.t., I lay off the azimuth of Polaris $1^{\circ} 23'$ to the east, and mark the meridian thus determined, by cutting a small groove in the stone set last night, on which the meridian coincides with the meridian determined by the solar.

At 8h. 0m., a.m., l.m.t., I set off $31^{\circ} 28' N.$ on the lat. arc. and $21^{\circ} 44'$ on the decl. arc., and mark a point in the meridian determined with the solar, by a cross on the stone already set 5 chs. N. of my station which coincides with the meridian established by the Polaris observation.

The magnetic bearing of the true meridian at 8h 30m., a.m., is $N. 14^{\circ} 30' W.$, the angle thus determined, gives the mag. decl. $14^{\circ} 30' E.$

Owing to irregularities on the East boundary, I run **a sectional guide meridian.**

From the cor. of secs. 35 and 36, on the S. Pdy. of Tp. 1 run, North, bet. secs. 35 and 36, ascending over mountainous land.

- 5.00 Top of spur, extends SE., descend.
- 15.00 Tiraja Canyon, 40 lks. wide, course SE., ascend.
- 21.00 Spur, extends NW.
- 35.00 Spur, extends NW.
- 37.00 Gulch, 10 lks. wide, course SE.
- 40.00 Set a granite stone, 18 X 10 X 8 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
- 43.00 Top of ascent, extends NE. and SW., descend.
- 58.20 Gulch, 10 lks. wide, course SW., ascend.
- 62.00 Top of ascent, extends NE. and SW.
- 70.00 Gulch, 20 lks. wide, course NW., ascend.
- 75.00 Top of ascent, extends NW. and SE., descend.
- 79.00 Bluff, extends E. and W., descend.
- 80.00 The cor. of secs. 25, 26, 35 and 36, falls on a boulder

Subdivision of Township 22 South, Range 9 East.

Chains

in place, 4 X 3 X 1 ft. above ground, which I mark with a cross for exact cor. point, with one notch on the E. and S. edges, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable.

An oak, 10 ins. diam., brs. S. 89° W., 51 lks. dist., marked T 22 S R 9 E S 35 B T.

An oak, 6 ins. diam., brs. N. 46° W., 56 lks. dist., marked T 22 S R 9 E S 26 B T.

An oak, 8 ins. diam., brs. N. 40° E., 78 lks. dist., marked T 22 S R 9 E S 25 B T.

Land, ^{no other trees available} mountainous.

Soil, gravelly and rocky; 3rd rate.

Timber, oak.

Mountainous land, exceptionally difficult to survey,

80.00 chs.

North, between sections 25 and 26 on sectional guide mer.

6.90
12.00
19.70
23.00
25.20
28.20
29.90
37.30
39.00
40.00

Gulch, 10 lks. wide, course SW., ascend.

Top of ascent, extends NW. and SE.

Gulch, 10 lks. wide, course NW.

Gulch, 10 lks. wide, course NW.

Gulch, 10 lks. wide, course NW.

Wire fence, extends NE. and SW.

Wash, 10 lks. wide, course SW., ascend.

Wash, 10 lks. wide, course SW.

Ascend.

Set a porphyry stone, 20 X 10 X 8 ins., 15 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.

An oak, 24 ins. diam., brs. N. 25° W., 209 lks. dist., marked 1/4 S 26 B T.

An oak, 10 ins. diam., brs. S. 65 1/4° E., 516 lks. dist., marked 1/4 S 25 B T.

Lesna Peak brs. N. 43° 50' W., about one mile dist.

Knoll, brs. N. 78 1/4° W., about 3/4 mile dist.

45.50
48.20
53.00
59.80
63.50
75.00
75.40
79.75
80.00

Top of ascent, extends E. and W., descend.

Gulch, 10 lks. wide, course NW.

Top of spur, extends W.

Wash, 30 lks. wide, course SW.

Wash, 30 lks. wide, course SE.

Wash, 25 lks. wide, course SW.

Wire fence, brs. NE. and SW.

Wire fence, brs. NW. and SE.

Set a sandstone, 10 X 10 X 6 ins., 12 ins. in the ground, for cor. of secs. 23, 24, 25 and 26., marked with 2 notches on the S. and 1 notch on the E. edge, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high. W. of cor.

An oak, 18 ins. diam., brs. N. 74 1/4° W., 313 lks. dist., marked T 22 S R 9 E S 23 B T.

A mulberry, 10 ins. diam., brs. S. 3 1/2° E., 357 lks. dist., marked T 22 S R 9 E S 25 B T.

No other trees within limits.

Land, mountainous.

Soil, gravelly and rocky, 2nd and 3rd rate.

Timber, dense oak.

Mountainous land, exceptionally difficult to survey,

80.00 chs.

At this cor. I set off 21" 47' S. on the decl. arc, and at 11h 49m. a.m.l.m.t., observe the sun on the meridian; the resulting lat. is 31" 29 1/2' N.

North, bet. secs. 23 and 24, on sectional guide meridian, over mountainous land.

2.00
6.00
9.00
15.00

Wash, 20 lks. wide, course SW.

Wash, 10 lks. wide, course SE,

Wash, 10 lks. wide, course W.

Wash, 10 lks. wide, course SE.

Subdivision of Tp. 22 South, R. 9 East.

chains
 16.00 Road, brs. SE and NW.
 21.80 Wash, 20 lks. wide, course SW., ascend.
 40.00 Set a porphyry stone, 18 X 12 X 8 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
 An oak, 16 ins. diam., brs. S. 15° E., 170 lks. dist., marked $\frac{1}{4}$ S 24 B T.
 An oak, 12 ins. diam., brs. S. 57° W., 208 lks. dist. marked $\frac{1}{4}$ S 23 B T.
 60.00 Top of spur, extends SE.
 64.00 Gulch, course SE.
 66.50 Spur, extends SE.
 70.00 Wash, 20 lks. wide, course SE.
 71.50 Wash, 20 lks. wide, course SE.
 73.50 Spur, extends SE.
 77.50 Gulch, 10 lks. wide, course SE.
 80.00 Set a sandstone, 18 X 14 X 10 ins., 12 ins. in the ground, for cor. of secs. 13, 14, 23, 24, marked with 3 notches on the S. and 1 notch on the E. edge, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
 An oak, 6 ins. diam., brs. S. $20\frac{3}{4}^\circ$ W., 85 lks. dist., marked T 22 S R 9 E S 23 B T.
 No other trees available.
 Land, mountainous.
 Soil, gravelly, 3rd rate.
 Timber, oak.
 Mountainous land, exceptionally difficult to survey,
 80.00 chs.

Dec. 1. 1909.

 Dec. 2, 1909. At 8h a.m., l.m., I set off $31^\circ 31'$ N. on the lat. arc, and $21^\circ 53'$ S. on the decl. arc, and determine a true meridian with the solar at the cor. of secs. 13, 14, 23 and 24.

Thence I run, North, bet. secs. 13 and 14, over mountainous land.

3.00 Gulch, 10 lks. wide, course SW., ascend.
 6.50 Top of ascent, extends E. and W., descend.
 13.00 Spur, extends NW., descend.
 16.10 Gulch, 12 lks. wide, course NW.
 18.00 Top of ascent, extends E. and W., descend.
 21.70 Gulch, 10 lks. wide, course NW., ascend.
 23.00 Top of ascent; extends E. and W.
 24.10 Gulch, 10 lks. wide, course NW., ascend.
 27.00 Top of ascent, extends E. and W.
 29.50 Gulch, 10 lks. wide, course NW., ascend.
 34.00 Top of ascent, extends NW. and SE., descend.
 36.30 Gulch, 10 lks. wide, course E.
 40.00 Set a sandstone, 18 X 10 X 6 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
 An oak, 12 ins. diam., brs. N. $12\frac{1}{4}^\circ$ E., 55 lks. dist., marked $\frac{1}{4}$ S 13 B T.
 An oak, 12 ins. diam., brs. S. 81° W., 75 lks. dist. marked $\frac{1}{4}$ S 14 B T.
 57.25 Wash, 40 lks. wide, course NW., ascend.
 58.65 Top of spur, extends E. and W.
 59.70 Wash, 30 lks. wide, course NW.
 63.00 Alamito Creek, 1.00 ch. wide, course NW.
 68.00 Along west slope of spur, extends NE.
 69.25 Road, brs. SW. and NE., ascend.

Subdivision of Township 22 South, Range 9 East.

chains.
 69.80 Wash (Alamito) course NE.
 75.50 Top of east slope of spur, descend.
 78.50 Alamito Creek, 100 lks. wide, course NW.
 78.70 Road, brs. E. and W.
 80.00 A sandstone, 18 X 14 X 10 ins., 12 ins. in the ground, for cor. of secs. 11, 12, 13 and 14, marked with 4 notches on the S. and 1 notch on E. edge, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. An oak, 10 ins. diam., brs. S. 43¼" W., 75 lks. dist., marked T 22 S R 9 E S 14 B T.
 An oak, 8 ins. diam., brs. S. 26¼" E., 76 lks. dist., marked T 22 S R 9 E S 13 B T.
 An oak, 12 ins. diam., brs. N. 40½" E., 112 lks. dist. marked T 22 S R 9 E S 13 B T.
 An oak, 24 ins. diam., brs. N. 77" W., 81 lks. dist., marked T 22 S R 9 E S 11 B T.
 Land, mountainous.
 Soil, gravelly, 4th rate.
 Timber, oak.
 Mountainous land, exceptionally difficult to survey, 80.00 chs.

 At 11h 49m a.m., l.m.t., I set off 21° 56' S. on the decl. arc, and determine a true meridian with the solar; the resulting lat. is 31° 31½' N. North, bet, secs. 11 and 12, over mountainous land, through heavy oak timber, on sectional guide meridian.

6.50 Draw, 1.00 chs. wide, course NE.
 8.00 Road, brs. SW. and NE.
 11.25 Dry wash, 10 lks. wide, course W.
 18.00 Dry wash, 1.00 ch. wide, course NW, same wash as at 6.50
 26.00 Road, brs. Nw. and S.
 27.00 Same wash, 1.00 chs. wide, course NW.
 38.20 Dry wash, 10 lks. wide, course SW., ascend.
 40.00 Set a granite porphyry stone, 22 X 10 X 6 ins., 16 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
 An oak, 10" diam., brs. S. 60° W., 43 lks. dist., marked ¼ S 11 B T.
 An oak, 10" diam., brs. S. 41¼° E., 92 lks. dist., marked ¼ S 12 B T.
 48.50 Top of spur, extends W, descend.
 57.50 Dry wash, 50 lks. wide, course W.
 61.25 Dry wash, 10 lks. wide, course SW.
 80.00 Set a granite porphyry stone, 18 X 10 X 10 ins., 12 ins. in the ground, for cor. of secs. 1, 2, 11 and 12, marked with 5 notches on the S. and 1 notch on the E. edge, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
 An oak, 10 ins. diam., brs. N. 63½° E., 100 lks. dist., marked T 22 S R 9 E S 1 B T.
 An oak, 10 ins. diam., brs. S. 69° E., 155 lks. dist., marked T 22 S R 9 E S 12 B T.
 An oak, 10 ins. diam., brs. S. 4° W., 25 lks. dist., marked T 22 S R 9 E S 11 B T.
 An oak, 10 ins. diam., brs. N. 76½° W., 183 lks. dist., marked T 22 S R 9 E S 2 B T.
 Land, mountainous.
 Soil, gravelly, 3rd rate.
 Timber, oak.
 Mountainous land, exceptionally difficult to survey, 80.00 chs.

Subdivision of Tp. 22 South, R. 9 East.

chains

Thence I run, on sectional guide meridian, North, bet. secs. 1 and 2., over mountainous land, descending.

3.80 Wash, 20 lks. wide, course NW.

8.50 Wash, 20 lks. wide, course W.

17.00 Wash, 20 lks. wide, course SW.

20.50 Ridge, extends E. and W., descend.

23.00 Wash, 20 lks. wide, course SW., ascend.

38.00 Top of ridge, extends E. and W.

40.00 Set a porphyry stone, 18 X 8 X 8 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.

An oak, 24 ins. diam., brs. N. $67\frac{1}{4}^{\circ}$ E., 73 lks. dist., marked $\frac{1}{4}$ S 1 B T.

An oak, 39 ins. diam., brs. S. $74\frac{1}{2}^{\circ}$ W., 39 lks. dist., marked $\frac{1}{4}$ S 2 B T.

55.20 Wash, 40 lks. wide, course SW., ascend.

62.30 Wash, 30 lks. wide, course SE.

81.30 Intersect the N. Bdy. of Tp. at a point 13 chs. E. of the cor. of secs. 35 and 36, Tp. 21S., R. 9 E., where I set a malapais stone, 18 X 10 X 8 ins., 12 ins. in the ground, for closing cor. of secs. 1 and 2, marked C C on S., with 5 grooves on W., and 1 groove on E. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, S. of cor. Pits impracticable.

Land, mountainous.
Soil, gravelly, 3rd rate.
Timber, oak.
Mountainous land, exceptionally difficult to survey,
80.00 chs. December 2, 1909

December 3, 1909. At 8h 15m, a.m., l.m.t., I set off $31^{\circ} 29'$ N. on the lat. arc, and $22^{\circ} 02'$ S. on the decl. arc, and determine a true meridian with the solar at the cor. of secs. 25, 26, 35 and 36.

Thence; I run, $S89^{\circ} 43' E$ on a true line bet. secs. 25 and 36. Ascending over steep bluffs.

3.00 Top of ascent, brs. NE. and SW., descend, over boulders.

40.00 Point for $\frac{1}{4}$ sec. cor. falls on a sandstone in place, 12 X 10 X 10 ins. above ground, which I mark with a cross for exact $\frac{1}{4}$ sec. cor. point, with $\frac{1}{4}$ S. of cross and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of boulder.

An oak, 10 ins. diam., brs. S. $72\frac{3}{4}^{\circ}$ W., 184 lks. dist. marked $\frac{1}{4}$ S 36 B T.

An oak, 10 ins. diam., brs. N. 54° E., 106 lks. dist. marked $\frac{1}{4}$ S 25 B T.

46.50 Draw, 1.00 chs. wide, course SE.

54.00 Ridge, extends NW. and SE.

66.10 Gulch, 10 lks. wide, course SE.

74.00 Ridge, extends SE. and NW., descend.

77.00 Gulch, course SE., ascend.

78.70 Intersect the East Bdy. of Tp. at the corner of secs. 25, 30, 31 and 36.

Land, mountainous.
Soil, gravelly, 2nd and 3rd rate.
Timber, oak.
Mountainous land, exceptionally difficult to survey,
78.70 chs.

Subdivision of Township 22 South, Range 9 East

chains S89 43E on a true line between secs. 24 and 25. Ascend steeply.
 1.00 Wash, 20 lks. wide, course SW.
 7.00 Gulch, 10 lks. wide, course SW.
 20.00 Top of ascent, extends N. and S., descend, over rocky land.
 40.00 Set a porphyry stone, 18 X 20 X 6 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 3 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. Pits impracticable. Ascend.
 11:50 A.M., L.M.T., I set off 23° 5' S. on the decl. arc, and observe the sun on the meridian; the resulting lat. is 31° 30' N.
 53.00 Top of spur, extends SW., descend.
 63.00 Descend steeply.
 66.50 Gulch, 25 lks. wide, course S., ascend steep slope.
 72.00 Top of ascent, extends N. and S., descend.
 76.29 Intersect the E. Bdy. of Tp. at the cor. of secs. 19, 30, 24 and 25, which is a porphyry stone, previously described.
 Land, mountainous.
 Soil, gravelly; 3rd rate.
 Timber, oak.
 Mountainous land, exceptionally difficult to survey,
 76.29 chs.

 S89 43E on a true line bet. secs. 13 and 24.
 Ascending.
 4.50 Gulch, 10 lks. wide, course S.
 7.00 Top of ascent, extends N. and S., descend.
 11.50 Wash, 15 lks. wide, course SW.
 21.60 Gulch, 10 lks. wide, course S., ascend.
 28.00 Top of ascent, extends N. and S., descend.
 30.00 Gulch, 10 lks. wide, course NE., ascend.
 34.00 Top of ascent, extends N. and S., descend.
 40.00 Set a porphyry stone, 18 X 12 X 8 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 3 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
 An oak, 6 ins. diam., brs. S. 81° 15' E., 27 lks. dist., marked $\frac{1}{4}$ S 24 B T.
 An oak, 6 ins. diam., brs. N. 75° 15' W., 44 lks. dist., marked $\frac{1}{4}$ S 13 B T.
 45.00 Gulch, 10 lks. wide, course NE., ascend.
 47.00 Top of ascent.
 50.10 Wash, 10 lks. wide, course N., ascend.
 56.50 Top of ascent, extends NW., descend.
 63.10 Foot of descent, gulch, 10 lks. wide, course NW., ascend.
 73.10 Top of ridge, extends NW. and SE., descend.
 76.07 Intersect the E. bdy. of Tp. at a point 195 lks. S. 0° 10' E. of the cor. of secs. 18 and 19, where I set a porphyry stone, 18 X 12 X 6 ins., 12 ins. in the ground, for closing cor. of secs. 13 and 24, marked C C on W., with three grooves on the N. and S. faces, and raise a mound of stone, 3 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor., from which
 An oak, 15 ins. diam., brs. N. 35° W., 45 lks. dist., marked T 22 S R 9 E S 13 B T.
 An oak, 5 ins. diam., brs. S. 19° W., 79 lks. dist., marked T 22 S R 9 E S 24 B T.

Subdivision of Township 23 South, Range 9 East.

chains

Land, mountainous.
Soil, gravelly; 3rd rate.
Timber, oak.
Mountainous land, exceptionally difficult to survey,
76.07 chs.

December 3, 1909

December 4: At 8h a.m., l.m.t., I set off 22° 10' S. on the decl. arc, and 31° 31' N. on the lat. arc, and determine a true meridian with the solar at the cor. of secs. 11, 12, 13 and 14.

Thence I run,

S89° 43' E. on a true line bet. secs. 12 and 13.

Over mountainous land, covered with dense oak timber.

7.30 Dry wash, 10 lks. wide, course SW.

10.00 Same dry wash, 10 lks. wide, course NW.

Ascend steep ridge.

19.50 Top of ridge, extends N. and S., descend.

31.50 Dry wash, 10 lks. wide, course NW., ascend.

40.00 Top of ridge.

Set a granite porphyry stone, 21 X 12 X 8 ins., 16 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.

An oak, 8 ins. diam., brs. S. 57 $\frac{1}{2}$ ° E., .114 lks. dist., marked $\frac{1}{4}$ S 13 B T.

An oak, 1 $\frac{1}{2}$ ins. diam., brs. N. 71° W., 33 lks. dist., marked $\frac{1}{4}$ S 12 B T.

Descend.

51.70 Dry wash, 10 lks. wide, course N.

60.00 Enter low land.

75.80 Intersect the east bdy. of Tp. at a point 3.64 chs. ^{50° 15' E} of cor. of secs. 7 and 18, where I set a granite porphyry stone, 21 X 10 X 8 ins., 15 ins. in the ground, for closing cor. of secs. 12 and 13, marked C C on W., with 4 grooves on the S., and 2 grooves on the N. face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.

An oak, 20 ins. diam., brs. N. 17° W., 2.94 chs. dist., marked T 22 S., R. 9 E., S. 12 B T.

An oak, 16 ins. diam., brs. S. 62° W., 2.50 chs. dist., marked T 22 S R 9 E S 13 B T.

Land, mountainous.

Soil, gravelly, 3rd rate.

Timber, oak.

Mountainous land, exceptionally difficult to survey,
75.80 chs.

December 4: At 11h 50m., a.m., l.m.t., I set off 22° 13' N. on the decl. arc, and observe the sun on the meridian; the resulting lat. is 31° 32' N.

S89° 43' E. on a true line, bet. secs. 1 and 12.

Over mountainous land.

4.50 Wash, 25 lks. wide, course NW.

27.80 Wash, 15 lks. wide, course S.

32.80 Wash, 10 lks. wide, course SW.

34.60 Wash, 10 lks. wide, course SW.

40.00 Set a porphyry stone, 24 X 12 X 6 ins., in mound of stone, 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.

Subdivision of Township 22-South, R. 9-East.

chains

- An oak, 6 ins. diam., brs. N. $63\frac{3}{4}^{\circ}$ E., 128 lks. dist., marked $\frac{1}{4}$ S 1 B T.
 An oak, 5 ins. diam., brs. S. 5° E., 142 lks. dist., marked $\frac{1}{4}$ S 12 B T.
- 55.00 Top of ridge, extends N. and S.
 73.00 Wash, 30 lks. wide, course N
 73.84 Intersect the E. Bdy. of Tp. at a point 6.12 chs. S. of cor. of secs. 6 and 7, Tp. 22 S., R. 10 E., where I set a granite stone, 18 X 8 X 6 ins. 12 ins. in the ground, for closing cor. of secs. 1 and 12, marked C C on W., with 1 groove on N., and 5 grooves on S. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W/ of cor.
- An oak, 30 ins. diam., brs. S. $77\frac{1}{2}^{\circ}$ W., 24 lks. dist., marked T 22 S R 9 E S 12 B T.
 An oak, 12 ins. diam., brs. N. $11\frac{1}{4}^{\circ}$ W., 28 lks. dist., marked T 22 S R 9 E S 1 B T.
- Land, mountainous.
 Soil, gravelly; 3rd rate.
 Timber, oak.
 Mountainous land, exceptionally difficult to survey, 73.84 chs.
- December 4, 1909.
- Dec. 5, 1909. Ar. 8h 30m., a.m., l.m.t., I set off $31^{\circ} 28'$ N. on the lat. arc, and $22^{\circ} 19'$ S. on the decl. arc, and determine a true meridian with the solar at the cor. of secs. ³34 and 35, on the S. Bdy. of the township.
- Thence I run
 N. $0^{\circ} 1'$ W., bet. secs. 34 and 35.
 Descending, over mountainous land.
- 8.00 Foot of descent; ascend.
 10.00 Top of ascent; extends E., and W., descend.
 30.00 Gulch, 10 lks. widd, course NW., ascend.
 37.00 Top of spur, extends NW., descend.
 40.00 Set a porphyry stone, 18 X 8 X 6 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ S on W., and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
- An oak, 10 ins. diam, brs. N $11^{\circ} 45' E$., 93 lks. dist. marked $\frac{1}{4}$ S 35 B T.
 No other tree available.
- 47.00 Gulch, 100 lks. wide, course NW., ascend.
 54.00 Top of ascent, extends NW., descend.
 57.40 Gulch, 20 lks. widd, course NW., ascend.
 61.00 Top of ascent, extends E. and W., descend.
 71.75 Alamita Wash, 100 lks. wide, course NW, ascend.
 80.00 The cor. of secs. 26, 27, 34 and 35, which is a porphyry stone, 21 X 10 X 8 ins., set 15 ins. in the ground, marked with 1 notch on the S. and 2 notches on the E. edge, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
- Land, mountainous.
 Soil, gravelly; 2nd and 3rd rate.
 Timber, a few oaks, mesquite and cottonwood.
- 889452 on a random line, bet. secs. 26 and 35.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.04 Intersect the N. and S. line at a point 21 lks. S. of the cor. of secs. 25, 26, 35 and 36,
 Thence I run,
 N. $89^{\circ} 52'$ W., on a true line bet. secs. 26 and 35.
 Descending over boulders.
 13.10 Gulch, course NW.

Subdivision of Township 23 South, Range 9 East

chains

- 18.80 Gulch, 20 lks. wide, course NW.
 - 34.15 Gulch, 20 lks. wide, course NE., ascend.
 - 40.02 An oak, 15 ins. diam., for $\frac{1}{4}$ sec. cor., bet. secs. 26 and 35, I mark $\frac{1}{4}$ S on N. side, and 35 on S. side, from which
 - An oak, 8 ins. diam., brs. S. 29° W., 84 lks. dist., marked $\frac{1}{4}$ S 35 B T.
 - An oak, 6 ins. diam., brs. N. 6° E., 86 lks. dist., marked $\frac{1}{4}$ S 36 B T.
 - 41.60 Top of high ridge, extends N. and S.,
 - 47.50 Bluff, 75 ft. , extends N. and S., descend.
 - 54.00 Foot of descent.
 - 61.70 Wash, 10 lks. wide, course W.
 - 68.00 Gulch, 10 lks. wide, course NW.
 - 69.20 Alamito Wash, 100 lks. wide, course SW.
 - 73.20 Road, brs. NE. and SW.
 - 75.10 Gulch, 10 lks. wide, course SE.
 - 80.04 The cor. of secs. 26, 27, 34 and 35.
 - Land, mountainous.
 - Soil, gravelly and rocky; 3rd and 4th rate.
 - Timber, oak, cottonwoods and mesquite.
 - Mountainous land, exceptionally difficult to survey, 80.04 chs.
 - At 11h 50m a.m., l.m.t., I set off 22° 21' N., on the decl. arc, and observe the sun on the meridian; the resulting lat. is 31° 29' N.
-
- N. 0° 1' W., bet. secs. 26 and 27.
 - Ascending.
 - 1.70 Top, extends E. and W., descend.
 - 17.30 Gulch, 10 lks. wide, course SE., ascend.
 - 40.00 Set a porphyry stone, 20 X 10 X 6 ins., 15 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
 - A mesquite, 8 ins. diam., brs. S. 64 $\frac{1}{4}$ ° E., 200 lks. dist., marked $\frac{1}{4}$ S 26 B T.
 - No other tree available.
 - 47.00 Top of ascent, extends E. and W., descend.
 - 57.00 Wash, 10 lks. wide, course SE., ascend.
 - 61.50 Top of ascent, extends E. and W., descend.
 - 62.00 Gulch, 10 lks. wide, course SE., ascend.
 - 68.30 Top, of ridge, extends E. and W., descend.
 - 71.90 Gulch, 10 lks. wide, course SE., ascend.
 - 76.50 Top of ridge, extends NW., descend.
 - 80.00 Set a sandstone, 18 X 10 X 5 ins., 12 ins. in the ground, for cor. of secs. 22, 23, 26 and 27, marked with 2 notches on the S. and E. edges, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
 - A mesquite, 24 ins. diam, brs. S. 70° E., 66 lks. dist., marked T 22 S R 9 E S 26 B T.
 - A mesquite, 22 ins. diam., brs. N. 7 $\frac{1}{2}$ ° W., 226 lks. dist., marked T 22 S R 9 E S 23 B T.
 - A mesquite, 22 ins. diam, brs. N. 67° E., 300 lks. dist., marked T 22 S R 9 E S 23 B T.
 - No other tree available.
- Land, mountainous.
 - Soil, gravelly; 3rd rate.
 - Timber, a few mesquite.
 - Mountainous land, exceptionally difficult to survey, 80.00 chs.
-

Subdivision of Township 23 South, Range 9 East.

	chains	
		S. 89° 52' E. on a random line bet. secs. 23 and 26.
40.00		Set temp. $\frac{1}{4}$ sec. cor.
80.12		Intersect the N. and S. line of secs. 24 and 25 at a point 23 lks. N. of the sec. cor.
		Thence I run,
		N. 89° 42' W. on a true line bet. secs. 23 and 26.
		Over ruggy hilly land, through dense mesquite and oak timber.
1.00		Wite fence, brs. NW and SE. and wash course S.
10.00		Top of ridge, extends NW., descend.
15.00		Gulch, 10 lks. wide, course SE., ascend, south slope.
40.06		Set a granite porphyry stone, 21 X 10 X 8 ins., 16 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
		An oak, 12 ins. diam., brs. S. 53° W., .46 lks. dist., marked $\frac{1}{4}$ S 26 B T.
		An oak, 10 ins. diam., brs. N. 36° E., .96 lks. dist., marked $\frac{1}{4}$ S 23 B T.
44.00		Dry wash, 40 lks. wide, course SW.
48.80		Dry wash, 15 lks. widd, course S.
52.70		Dry wash, 15 lks. wide, course SE.
63.90		Dry wash, 10 lks. wide, course SE.
67.50		Dry wash, 10 lks. wide, course SE.
72.50		Dry wash, 60 lks. wide, course S.
79.00		Dry wash, 10 lks. wide, course S.
80.12		The cor. of secs. 22, 23, 26 and 27.
		Land, mountainous.
		Soil, gravelly; 3rd rate.
		Timber, mesquite, tesota and oak,
		Mountainous land, exceptionally difficult to survey,
		80.12 chs.
		December 5, 1909

		December 6, 1909, At 8h a.m., l.m.t., I set off 31° 30' N on the latl. arc, and 22° 26' S on the decl. arc, and determine a true meridian with the solar at the cor. of secs. 22, 23, 26 and 27.
		Thence I run,
		N. 0° 1' W. bet. secs. 22 and 23.
		Over rolling hills, through dense mesquite, tesota, undergrowth.
2.95		Dry wash, 10 lks. wide, course SE.
4.80		Dry wash, 80 lks. wide, course SE.
22.05		Dry wash, 30 lks. wide, course SE.
24.25		Dry wash, 10 lks. wide, course SW.
31.25		Dry wash, 15 lks. wide, course W.
38.00		Dry wash, 10 lks. wide, course W.
40.00		Set a granite porphyry stone, 21 X 8 X 8 ins., 16 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
		Ascend.
60.00		Top of ridge, brs. E. and W., descend.
67.00		Dry wash, 15 lks. wide, course E., ascend.
80.00		Set a granite stone, 18 X 12 X 6 ins., 12 ins. in the ground, for cor. of secs. 14, 15, 22 and 23, marked with 3 notches on the S. and 2 notches on E. edge, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
		An oak, 6 ins. diam., brs. S. 47° E., 23 lks. dist. marked T 22 S R 9 E S 23 B T.
		An oak, 6 ins. diam., brs. S 31° W., 10 lks. dist., marked T 22 S R 9 E S 22 B T.
		An oak, 8 ins. diam., bs. N. 69° E., 193 lks. dist. marked T 22 S R 9 E S 14 B T.
		No other tree available.
		Land, mountainous. Soil, 2nd. rate, grqvelly. Timber, oak.
		Mountainous land, exceptionally difficult to survey,
		80.00 chs.

Subdivision of Township 22 South, Range 9 East.

chains

- S. 89° 42' E., on a random line bet, secs. 14 and 23.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.10 Intersect the N. and S. line at a point 7 lks. S. of the cor. of secs. 13, 14, 23 and 24.
- Thence I run,
- N. 89° 45' W., bet. secs. 14 and 23.
- Descending.
- .90 Gulch, 15 lks. wide, course SE., ascend.
- 4.00 Top of spur, extends S.
- 9.40 Gulch, 10 lks. wide, course SE., ascend.
- 20.00 Top of spur, extends N. and S., descend.
- 26.00 Gulch, 10 lks. wide, course SW., ascend.
- 30.00 Spur, extends NW.
- 31.25 Gulch, 10 lks. wide, course SE., ascend.
- 39.00 Top of ascent, extends NW., descend.
- 40.05 Set a sandstone, 18 X 10 X 8 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. A mesquite, 13 ins. diam. brs. S. 56 $\frac{1}{2}$ ° W., 3.80 chs. dist., marked $\frac{1}{4}$ S 23 B T. No other tree within limits.
- 42.20 Gulch, 10 lks. wide, course SE., ascend.
- 45.00 Top, bts. N. and S., descend.
- 46.00 Ascend spur, extends NW,
- 50.00 Top of ascent, brs. N. and S., descend.
- 54.00 Gulch, 20 lks. wide, course SW.,
- 60.50 Wash, 20 lks. wide, course SW.,
- 72.20 Gulch, 20 lks. wide, course SE., ascend.
- 80.10 The cor. of secs. 14, 15, 22 and 23.

Land, mountainous.
 Soil, rocky and gravelly; 3rd rate.
 Timber, oak.
 Mountainous land, covered with dense undergrowth, exceptionally difficult to survey, 80.10 chs.
 At 11h 51m, a.m., l.m.t., I set off 22° 29' S. on the decl. arc, and observe the sun on the meridian; the resulting lat. is 31° 31' N.

-
- N. 0° 1' W. bet. secs. 14 and 15.
 - Over rough mountainous land, through dense oak timber.
 - 2.50 Dry wash, 10 lks. wide, course NE., ascend.
 - 5.00 Top of spur, extends NE., descend.
 - 9.20 Dry wash, 10 lks. wide, course E., ascend.
 - 14.50 Top of ridge; descend, E. and W.
 - 17.05 Dry wash, 10 lks. wide, course NE., ascend.
 - 23.00 Top of spur, extends Ne., descend.
 - 28.30 Dry wash, 10 lks. wide, course E., ascend.
 - 37.75 Top of ridge, extends E. and W., descend.
 - 40.00 Set a granite porphyry stone, 21 X 12 X 8 ins., 16 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.
 - 41.00 Abrupt descent.
 - 80.00 Set a sandstone, 18 X 12 X 8 ins., 12 ins. in the ground, for cor. of secs. 10, 11, 14 and 15, marked with 4 notches on S. and 2 notches on E. edge, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
 - An oak, 24 ins. diam., brs. N. 19 $\frac{1}{2}$ ° W., 112 lks. dist marked T 22 S R 9 E S 10 B T.
 - An oak, 7 ins. diam. brs. S. 83° W., 234 lks. dist., marked T 22 S R 9 E S 15 B T.
 - No other trees available,
 - Land, mountainous.
 - Soil, gravelly and rocky; 3rd rate.
 - Timber, oak.
 - Mountainous land, exceptionally difficult to survey, 80.00 chs.
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Subdivision of Township 23 South, Range 9 East.

chains

S. 89° 45' E., on a random line bet. secs. 11 and 14.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.08 Intersect the N. and S. line at a point 2 lks. N. of
 the cor. of secs. 11, 12, 13 and 14.
 Thence I run,
 N. 89° 44' W. on a true line bet. secs. 11 and 14.
 Over mountainous land.
 1.20 Wagon road, brs. NE. and SW.
 1.50 Center of Alamito Canyon, course NE., ascend.
 10.50 Top of ascent, brs. N. and S., descend.
 13.30 Gulch, 10 lks. wide, course NE., ascend.
 16.00 Top of ascent, brs. N. and S., descend.
 18.00 Gulch, course NE.
 19.20 Gulch, course SE., ascend.
 25.00 Top, brs. N. and S., descend.
 27.45 Gulch, 10 lks. wide, course N., ascend.
 28.00 Top, brs. N. and S., descend.
 30.00 Gulch, 10 lks. wide, course NE., ascend.
 34.00 Top, brs. N. and S.
 38.00 South slope.
 39.00 Gulch, 10 lks. wide, course NW., ascend.
 40.04 Set a sandstone, 30 X 10 X 6 ins., 15 ins. in the ground
 for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N., and raise a mound of
 stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
 An oak, 18 ins. diam., brs. S. 29° E., 189 lks.
 dist., marked $\frac{1}{4}$ S 14 B T.
 An oak, 8 ins. diam., brs. N. 37° E., 243 lks. dist.,
 marked $\frac{1}{4}$ S 11 B T.
 41.20 Gulch, 10 lks. wide, course NE., ascend.
 45.00 Top of ascent, brs. NE. and SW., descend.
 48.75 Gulch, 15 lks. wide, course NE., ascend.
 52.25 Top, brs. NE. and SW. descend.
 58.80 Gulch, 10 lks. wide, course NW., ascend.
 60.00 Top brs. NW and SE. descend.
 62.00 Gulch, 5 lks. wide, course NE.
 62.60 Top, brs. NW and SE., descend.
 63.90 Gulch, 10 lks. wide, course NE.
 67.00 Gulch, 20 lks. wide, course SE.
 69.00 Top, brs. SE. and NW.
 72.75 Gulch, 10 lks. wide, course NW., ascend.
 74.50 Top, extends NW. descend.
 76.00 Tunnel, brs. S. 20 chs. dist.
 80.08 The cor. of secs. 10, 11, 14 and 15.
 Land, mountainous.
 Soil, gravelly and rocky; 2nd and 3rd rate.
 Timber, oak.
 Mountainous land, exceptionally difficult to survey,
 80.08 chs.

December 6, 1909.

Dec. 7; at 8h 20m a.m., l.m.t., I set off 31° 31' N. on
 the lat. arc, and 22° 33' S. on the decl. arc, and
 determine a true meridian with the solar at the cor.
 of secs. 10, 11, 14 and 15.

Thence I run,
 N. 0° 1' W., on a true line bet. secs. 10 and 11.
 Over mountainous land.
 3.90 Gulch, 10 lks. wide, course NW.
 5.90 Road, brs. NE and SW., ascend.
 13.75 Gulch, 10 lks. wide, course SE., ascend.
 15.50 Top, brs. NW and SE., descend.
 18.25 Foot, ascend.
 29.00 Top, brs. E. and W., descend.
 34.90 Gulch, 10 lks. wide, course NW., ascend.

Subdivision of Township 23 South, Range 9 East.

chains	
37.25	Top, brs. NW. and SE., descend.
39.30	Gulch, 10 lks. wide, course NW., ascend.
40.00	Set a sandstone, 18 X 10 X 6 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
45.20	Gulch, 10 lks. wide, course NE., ascend.
53.30	Top of ridge; extends E. and W. descend.
66.00	Gulch, 50 lks. wide, course NE., ascend.
75.50	Top, extends NW. and SE., descend.
79.40	Enter Corona Wash
80.00	Point for cor. of secs. 2, 3, 10 and 11 falls in wash,
81.20	Set a granite stone, 18 X 12 X 8 ins., 12 ins. in the ground, for witness cor. to cor. of secs. 2, 3, 10 and 11, marked W C on NE., with 5 grooves on the S. and 2 grooves on the E edge, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. An oak, 6 ins. diam, brs. N. $3^{\circ} 45'$ E., 252 lks. dist., marked W C T 22 S R 9 E S 2 B T An ash, 8 ins. diam., brs. S. $34\frac{1}{2}^{\circ}$ E., 183 lks. dist., marked W C T 22 S R 9 E S 11 B T. No other trees available. Land; mountainous. Soil, gravelly; 3rd rate. Timber, oak. Mountainous land, exceptionally difficult to survey, 80.00 chs.
	----- FROM TRUE POINT FOR COR. OF SECS. 2, 3, 10 & 11, I RUN S. $89^{\circ} 44'$ E. on a random line bet. secs. 2 and 11.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.00	Intersect the N. and S. line at a point 3 lks. N. of the cor. of secs. 1, 2, 11 and 12. Thence I run, N. $89^{\circ} 43'$ W. on a true line bet. secs. 2 and 11. Through oak timber.
15.50	Alamito Canyon and road; 1.50 chs. wide, brs. N. and S. asc.
27.00	Ridge, extends N. and S. descend.
33.90	Wash, 30 lks. wide, course NE.
40.00	Set a granite stone, 18 X 10 X 8 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. An oak, 6 ins. diam., brs. S. $79^{\circ} 45'$ E., 94 lks. dist., marked $\frac{1}{4}$ S 11 B T. An oak, 6 ins. diam., brs. N. $66\frac{1}{4}^{\circ}$ E., 98 lks. dist., marked $\frac{1}{4}$ S 2 B T.
46.90	Wash, 25 lks. wide, course SW.
63.00	Stone cabin of Ramon Corona brs. N. 25 chs. dist.
79.00	Enter Corona wash, 50 lks. wide, course SE.
80.00	The cor. point of secs. 2, 3, 10 and 11. Land, mountainous. Soil, gravelly; 2nd and 3rd rate. Timber, oak and a few Hockberry. Mountainous land, exceptionally difficult to survey, 80.00 chs.
	----- At 11h 51m a.m., 1.m.t., I set off $22^{\circ} 36'$ S. on the decl. arc, and observe the sun on the meridian; the resulting lat. is $31^{\circ} 32'$ N. From the cor. point, I run North $0^{\circ} 1'$ W. bet. secs. 2 and 3. Over mountainous land.
1.20	Witness cor. to secs. 2, 3, 10 and 11.
2.00	Wash, 10 lks. wide, course SE.
15.50	Road, brs. E. and W. descend.
22.00	Wash, 20 lks. wide, course SE., ascend.
27.50	Road, brs. E. and W.

Township 22 South, Range 9 East.

chains	
40.00	Set a granite stone, 18 X 8 X 8 ins. 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. An oak, 5 ins. diam., brs. S. 30° E., 237 lks. dist., marked $\frac{1}{4}$ S 2 B T. An oak stump, 24 ins. diam., brs. S. 29° 30' W., 213 lks. dist., marked $\frac{1}{4}$ S 3 B T.
54.30	Wash, 30 lks. wide, course WNW.
56.20	Road, brs. NW. and SE.
57.00	Wash, 10 lks. wide, course NE.
59.00	Enter dense mesquite and tesota, extends NW. and SE.
62.20	Wash, 30 lks. wide, course N
69.00	Wash, 60 lks. wide, course NW.
72.00	Wash, 60 lks. wide, course NE.
74.50	Wash, 60 lks. wide, course NW.
76.50	Wash, 60 lks. wide, course NW.
82.50	Intersect the N. Bdy. of Tp. at a point 13.00 chs. N. of the cor. of secs. 34 and 35, where I set a granite stone, 16 X 10 X 8 ins. 11 ins. in the ground, for closing cor. of secs. 2 and 3, marked C C on S., with 2 grooves on E. and 4 grooves on W. faces, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, S. of Cor. Pits impracticable. Land, mountainous. Soil, gravelly, 3rd rate. Timber a few oak and mesquite and tesota. Land, mountainous, exceptionally difficult to survey, 80.00 chs.
	From the cor. of secs. 3, 4, 33 & 34 on the S. bdy. I run N. 0° 1' W., bet. secs. 33 and 34. Ascending over mountainous land.
5.40	Ridge, extends E. and W.
22.50	Ridge, extends E. and W.
31.00	Gulch, 10 lks. wide, course SE.
40.00	Set a sandstone, 18 X 10 X 8 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. A mesquite, 10 ins., diam., brs. N. 50° W., 94 lks. dist., marked $\frac{1}{4}$ S 33 B T. A mesquite, 8 ins. diam., brs. S. 29° E., 71 lks. dist., marked $\frac{1}{4}$ S 34 B T.
41.20	Gulch, 10 lks. wide, course SE. ascend.
46.80	Ridge, extends NW. and SE. descend.
48.00	Gulch, 10 lks. wide, course SE. ascend.
50.50	Ridge, extends NW and SE. descend.
68.00	Gulch, course SE. ascend.
77.60	Ridge, extends NW. and SE. descend.
80.00	Set a quartz stone, 18 X 8 X 8 ins., 12 ins. in the ground, for cor. of secs. 27, 28, 33 and 34, marked with 1 notch on the S. and 3 notches on the E. edges, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, mountainous. Soil, gravelly; 2nd rate. Timber, a few mesquite; undergrowth, mesquite and tesota Mountainous land, 80.00 chs.

December 7, 1909.

Dec. 8, 1909, At 8h a.m., 1.m.t., I set off 22° 39 $\frac{1}{2}$ ' S. on the decl. arc, and 31° 29' N. on the lat. arc, and determine a true meridian with the solar at the cor. of secs. 26, 27, 34 and 35. Thence I run,

Subdivision of Township 22 South, Range 9 East.

chains	S. 89° 43' E., on a random line between secs. 27 and 34.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.04	Intersect the N. and S. line at a point 13 lks. S. of the cor. of secs. 26, 27, 34 and 35.
	Thence I run,
	N. 89° 48' W., on a true line bet. secs. 27 and 34.
	Ascending.
1.00	Top of ascent, extends NE. and SW. descend.
4.00	Foot; gulch, 30 lks. wide, course SW., ascend.
11.50	Top of S. slope; descend.
14.60	Gulch, 10 lks. wide, course SW., ascend.
27.50	Top, brs. NW. and SE., descend.
34.00	Ascend.
40.02	Set a porphyry stone, 18 X 10 X 5 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
	A mesquite, 18 ins. diam., brs. N. 24° W., 77 lks. dist., marked $\frac{1}{4}$ S 27 B T.
	A mesquite, 20 ins. diam., brs. S. 76° 45' E., 176 lks. dist., marked $\frac{1}{4}$ S 34 B T.
41.00	Top, brs. N. and S., descend.
52.00	Descend. steeper.
61.50	Wash, 20 lks. wide, course SW.
63.00	Draw, 2.00 chs. wide, course SW., ascend.
66.00	Top of ascent, brs. N. and S. descend.
66.50	Gulch, 20 lks. wide, course SE., ascend.
80.04	The cor. of secs. 27, 28, 33, and 34.
	Land, mountainous.
	Soil, gravelly; 3rd and 4th rate.
	Timber, a few mesquite.
	Mountainous land, exceptionally difficult to survey, 80.04 chs.

	N. 0° 1' W., bet. secs. 27 and 28.
	Descending.
15.70	Gulch, course SE. ascend.
25.00	Ridge, extends NW. and SE. descend.
30.60	Gulch, course SE. ascend.
31.50	Ridge, brs. NW. and SE. descend.
32.50	Gulch, course SE. ascend.
35.60	Ridge, brs. NW and SE. descend.
38.00	Gulch, course SE.
40.00	Set a sandstone, 18 X 8 X 5 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
	A mesquite, 10 ins. diam., brs. N. 45° W., 24 lks. dist., marked $\frac{1}{4}$ S 28 B T.
	A mesquite, 10 ins. diam., brs. S. 85° E., 161 lks. dist., marked $\frac{1}{4}$ S 27 B T.
	At 11h 52m a.m., l.m.t., I set off 22° 42' S. on the decl. arc, and observe the sun on the meridian; the resulting lat. is 31° 29' N.
44.60	Gulch, course SE. ascend.
51.00	Ridge, brs. E. and W. descend.
65.90	Gulch, course SE. ascend.
74.50	Road, brs. NE. and SW.
80.00	Set a granite stone, 28 X 20 X 10 ins., 12 ins. in the ground, for cor. of secs. 21, 22, 27 and 28, marked with 2 notches on the S. and 3 notches on the E. edge, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W/ of cor. Pits impracticable.
	Land, mountainous.
	Soil, gravelly; 3rd rate.
	Timber, a few mesquite and tesota.
	Mountainous land, exceptionally difficult to survey, 80.00 chs.

Subdivision of Township 22 South, Range 9 East.

chains	S. 89° 48' E., on a random line bet. secs. 22 and 27.
40.00	Set temp. 1/4 sec. cor.
80.02	Intersect the N. and S. line at a point 7 lks. N. of the cor. of secs. 22, 23, 26 and 27.
	Thence I run, N. 89° 45' W. on a true line bet. secs. 22 and 27.
	Over mountainous land, through mesquite and tesota timber.
10.00	Dry wash, 30 lks. wide, course SE., ascend.
19.45	Dry wash, 10 lks. wide, course N.
23.50	Dry wash, 10 lks. wide, course N., ascend.
33.00	Top of mountain, brs. SE. and NW.
49.08	Set a granite porphyry stone, 21 X 6 X 8 ins., 16 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor. Pits impracticable.
	Descend over rocky ground.
55.20	Dry wash, 20 lks. wide, course S., ascend.
80.02	The cor. of secs. 21, 22, 27 and 28.
	Land, mountainous. Soil, gravelly rock; 3rd and 4th rate. Timber, dense mesquite and tesota. Mountainous land; exceptionally difficult to survey, 80.02 chs.

	N. 0° E. W., bet. secs. 21 and 22.
	Over mountainous land, through oak, ocatilla undergrowth
1.56	Dry wash., 15 lks. wide, course SE.
16.60	Ascend over rough mountains.
34.70	Top of mountains; descend.
37.70	Dry wash, 15 lks. wide, course NW., ascend.
40.00	Set a granite-porphyry stone, 21 X 10 X 5 ins., 16 ins. in the ground, for cor. of secs. marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable.
43.15	Dry wash, 20 lks. wide, course W.
51.00	Dry wash, 40 lks. wide, course W.
69.00	Top of spur, extends E.
73.25	Dry wash, 10 lks. wide, course SW., ascend.
78.70	Top of spur, extends SW.
80.00	Set a silicate stone, 24 X 10 X 5 ins., 18 ins. in the ground, for cor. of secs. 15, 16, 21 and 22, marked with 3 notches on S. and E. edges, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable.
	Land, mountainous. Soil, gravelly; 3rd rate. Timber, mesquite. Mountainous land, exceptionally difficult to survey, 80.00 chs.
	December 8, 1909.

	December 9, 1909. At 8h 10m. a.m., l.m.t., I set off 23° 46' S. on the decl. arc, and determine the true meridian with the solar at the cor. of secs. 15, 16, 21 and 22.
	Thence I run, S. 89° 45' E. on a random line bet. secs. 15 and 22.
40.00	Set temp. 1/4 sec. cor.
80.08	Intersect the N. and S. line at a point 3 lks. N. of the cor. of secs. 14, 15, 22 and 23.
	Thence I run, N. 89° 44' W., on a true line bet. secs. 15 and 22.
	Over mountainous, rugged land, through oak and ocatilla undergrowth, ascending over ridge.
3.00	Top of ridge, descend. N and S.
11.45	Dry wash, 10 lks. wide, course SE., ascend.
13.55	Dry wash, 10 lks. wide, course SE., ascend.

Subdivision of Township 22 South, Range 9 East.

chains	
19.00	Top of ridge, brs. N. and S., descend.
27.05	Dry wash, 10 lks. wide, course NW.
37.25	Dry wash, 10 lks. wide, course SW.
40.04	Set a granite porphyry stone, 21 X 10 X 8 ins., 16 ins in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
41.00	Top of spur, extends N. and S.
46.50	Dry wash, 10 lks. wide, course S.
49.00	Top of spur, extends N. and S., descend.
61.15	Dry wash, 10 lks. wide, course SW., ascend.
64.10	Dry wash, 10 lks. wide, course S.
68.55	Dry wash, 10 lks. wide, course SE. ascend.
80.08	The cor. of secs. 15, 16, 21 and 22. Land, mountainous. Soil, gravelly and rocky; 3rd rate. Timber, few scattering oak. Mountainous land, exceptionally difficult to survey, 80.08 chs.

	Dec. 9, At 11h 52m a.m., l.m.t., I set off $22^{\circ} 48' S.$ on the decl. arc, and observe the sun on the meridian, the resulting lat is $31^{\circ} 31' N.$ N. $0^{\circ} 1' W.$ bet. secs. 15 and 22. Descending over mountainous land.
11.85	Dry wash, 60 lks. wide, course SW., ascend.
16.80	50 ft. shaft on line.
19.50	Top of ridge, extends NE., descend.
24.20	Dry wash, 50 lks. wide, course W., ascend..
27.35	Mine camp, brs. E., 15 chs. dist.
28.50	Top of spur, extends E.
40.00	Set a granite porphyry stone, 21 X 10 X 5 ins., 16 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Descend.
44.30	Dry wash, 10 lks. wide, course E., ascend..
50.30	Dry wash, 10 lks. wide, course SE., ascend.
70.65	Dry wash, 10 lks. wide, course NW
75.90	Dry wash, 10 lks. wide, course W., ascend.
78.90	Top of ridge, extends E. and W., descend.
80.00	Set a porphyry stone, 20 X 12 X 6 ins., 12 ins. in the ground, for the cor. of secs. 9, 10, 15 and 16, marked with 4 notches on the S. and 3 notches on the E. edge, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W of cor. Pits impracticable. Land, mountainous. Soil, gravelly and rocky; 3rd and 4th rate. No timber; undergrowth, Ocatilla and Cacti. Mountainous land, especially difficult to survey, 80.00 chs.

40.00	S. $89^{\circ} 44' E.$, on a random line bet. secs. 10 and 15. Set a temp. $\frac{1}{4}$ sec. cor.
80.12	Intersect the N. and S. line at a point 3 lks. S. of the cor. of secs. 10, 11, 14 and 15. Thence I run, N. $89^{\circ} 45' W.$ on a true line bet. secs. 10 and 15. Over mountainous land.

Subdivision of Township 22 South, Range 9 East.

chains	
2.20	Wash, 10 lks. wide, course NE.
6.20	Wash, 25 lks. wide, course NE., ascend.
7.20	Road, brs. N. and S.
8.00	Gulch, 10 lks. wide, course NE.
10.00	Top of ascent; brs. N. and S.
12.10	Gulch, 5 lks. wide, course NW., ascend.
12.70	Gulch, 5 lks. wide, course NE.
14.00	Gulch, 5 lks. wide, course NE.
20.00	Top; brs. NE. and SW., descend.
24.00	Gulch, 10 lks. wide, course NE.
25.10	Gulch, 10 lks. wide, course NE.
26.60	Gulch, 10 lks. wide, course NE.
28.00	Top of ascent; extends SW.
29.90	Wash, 15 lks. wide, course NW., ascend.
32.00	Gulch, 5 lks. wide, course NE.
34.00	Top, extends N. and S., descend.
35.90	Gulch, 5 lks. wide, course NE., ascend.
37.00	Top, extends NE. and SW.
40.06	Set a granite stone, 20 X 12 X 8 ins., 15 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable. An oak, 6 ins. diam., brs. N. 68° W., 46 lks. dist., marked $\frac{1}{4}$ S 10 B T. An oak, 12 ins. diam., brs. S. $27\frac{1}{2}^{\circ}$ E., 21 lks. dist., marked $\frac{1}{4}$ S 15 B T.
40.20	Wash, 15 lks. wide, course NE.
40.50	Wash, 20 lks. wide, course NE.
47.50	Gulch, 9 lks. wide, course SE.
56.40	Gulch, 10 lks. wide, course NW., ascend.
57.00	Top, brs. SE and NW, descend.
58.60	Gulch, 10 lks. wide, course NW., ascend.
63.00	Top, extends NW. and SE.
65.60	Gulch, 10 lks. wide, course NW., ascend.
66.80	Top, brs. N. and S., descend.
67.40	Gulch, 10 lks. wide, course NW., ascend.
73.80	Gulch, 10 lks. wide, course NW., ascend.
74.50	Top, brs. N. and S.
75.50	Gulch, 10 lks. wide, course NE.
80.12	The cor. of secs. 9, 10, 15 and 16. Land, mountainous. Soil, gravelly; 2nd and 3rd rate. Timber, oak and mesquite. Mountainous land, exceptionally difficult to survey, 80.12 chs.
	N. 0° 1' W., bet. secs. 9 and 10. Over mountainous land, through ocatilla and cacti undergrowth.
8.35	Dry wash, 10 lks. wide, course W.
17.20	Dry wash, 10 lks. wide, course W., ascend spur.
22.75	Top of spur; extends E., descend.
28.60	Dry wash, 10 lks. wide, course N.
30.40	Same dry wash, course NW.
32.40	Same dry wash, course NE.
36.95	Dry wash, 15 lks. wide, course NE.
40.00	Set a granite porphyry stone, 21 X 14 X 5 ins., 16 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
42.10	Dry wash, 10 lks. wide, course SE., ascend.
46.75	Top of spur, extends NE., descend. along E. slope of rocky ridge.

Subdivision of Township 22 S., R. 9-East.

chains

65.50
80.00

Foot of slope, ascend.
Set a granite porphyry stone, 21 X 14 X 6 ins., 16 ins. in the ground, for cor. of secs. 4, 5, 9 and 10, marked with 5 notches on the S. and 3 on the E. edge, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W of cor. Pits impracticable.

Land, mountainous.

Soil, gravelly and rocky; 3rd rate.

Mountainous land, exceptionally difficult to survey,
80.00 chs.

December 9, 1909.

Dec, 10, 1909. At 8h 15m., a.m., l.m.t., I set off 22° 52' S. on the decl. arc, and 31° 32' N. on the lat. arc, and determine a true meridian with the solar at the cor. of secs. 4, 5, 9 and 10.

Thence I run,

S. 89° 45' E., on a random line bet. secs. 3 and 10.

40.00
80.00

Set temp. 1/4 sec. cor.

Intersect the N. and S. line at a point 7 lks. N. of point for cor. of secs. 2, 3, 10 and 11.

Thence I run, from cor. point in Corona Wash, N. 89° 42' W., on a true line bet. secs. 3 and 10.

In Corona Wash.

7.10
31.90
40.00

Leave Corona Wash, 60 lks. wide, course SE., ascend.

Wash, 35 lks. wide, course NW.

Set a porphyry stone, 18 X 8 X 6 ins., 12 ins., in the ground, for 1/4 sec. cor., marked 1/4 on N face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor. Pits impracticable.

44.00
57.50
59.40
62.95
65.50
70.40
80.00

Road, brs. NE. and SW.

Wash, 15 lks. wide, course NE., ascend.

Road, brs. NE. and SW.

Wash, 40 lks. widd, course NE.

Wash, 25 lks. wide, course NE., ascend.

Road, brs. NE. and SW.

The cor. of secs. 3, 4, 9 and 10.

Land, mountainous.

Soil, sandy and gravelly; 3rd rate.

Mountainous land, exceptionally difficult to survey,
80.00 chs.

At 11h 53m a.m., l.m.t., I set off 22° 54' S. on the decl. arc, observe the sun on the meridian, the resulting lat. is 31° 32' N.

N. 0° 1' W., bet. secs. 3 and 4.

Ascending.

4.50
14.50
34.60
40.00

Ridge, extends E. and W.

Spur, extends NE.

Wash, 20 lks. wide, course W., ascend.

Set a porphyry stone, 18 X 10 X 5 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable.

44.50
62.60
72.35
80.00
81.50

Top of ridge, brs. NE. and SW.

Wash, 125 lks. widd, course NW., ascend.

Old road, brs. NW. and SE.

Top of ridge, brs E. and W., descend.

Intersect the N. bdy. at a point 13.40 chs. N. 89° 40' E. of cor. of secs. 33 and 34, Tp. 21 S., R. 9 E., where I set a granite stone, 18 X 10 X 8, for closing cor. of secs. 3 and 4, marked C C on S., with 3 notches on E. and W. edges, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, S. of cor. Pits impracticable.

Subdivision of Township 22 South, Range 9 East.

chains	Land, mountainous. Soil, gravelly; 3rd rate. Timber, a few mesquite. Mountainous land, exceptionally difficult to survey, 80.50 chs.
N. 0° 2'	From the cor. of secs. 4, 5, 32 & 33, on the S. bdy. I run
13.00	W., bet. secs. 32 and 33,
17.00	Foot of descend; ascend.
22.00	Top, extends NW. and SE., descend.
40.00	Wash, 15 lks. wide, course SW., ascend. Set a sandstone, 18 X 10 X 8 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. A mesquite, 30 ins. diam., brs. S. $48\frac{1}{2}^{\circ}$ E., 6.70 chs. dist., marked $\frac{1}{4}$ S 33 B T.
43.20	Ridge, extends NW. and SE.
44.90	Ridge, extends NW. and SE.
55.60	Ridge, extends NW. and SE.
80.00	Set a sandstone, 18 X 10 X 8 ins., 12 ins. in the ground, for cor. of secs. 28, 29, 32 and 33, marked with 1 notch on the S. and 4 notches on the E. edge, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
	Land, mountainous. Soil, gravelly; 3rd rate. Timber, a few mesquite, undergrowth, mesquite and tesota. Mountainous land, exceptionally difficult to survey, 80.00 chs.
	December 10, 1909.
	----- December 11th; At 8h 10m a.m., l.m.t., I set off $22^{\circ} 57'$ S. on the decl. arc, and $31^{\circ} 29'$ N. on the lat. arc, and determine a true meridian with the solar at the cor. of secs. 28, 29, 32 and 33. Thence I run, S. $89^{\circ} 43'$ E., on a random line bet. secs. 28 and 33.
40.00	Set a temp. $\frac{1}{4}$ sec. cor.
79.94	Intersect the N. and S. line at a point 16 lks. S. of cor. of secs. 27, 28, 33 and 34. Thence I run, N. $89^{\circ} 50'$ W. on a true line bet. secs. 28 and 33. Ascending.
2.00	Mountain, brs. N. and S., descend.
8.20	Foot of descent; gulch, 10 lks. wide, course SW., ascend
15.50	Top, extends NW.
24.50	Wash, 20 lks. wide, course SE., ascend.
33.00	Top, brs. N. and S., descend.
36.40	Gulch, course SW.
36.60	Wash, 10 lks. wide, course SW., ascend.
39.97	Set a quartz stone, 18 X 8 X 6 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. An oak, 20 ins. diam., brs. S. $76^{\circ} 30'$ W. 66 lks. dist. marked $\frac{1}{4}$ S 33 B T. An oak, 8 ins. diam., brs. N. $86^{\circ} 30'$ E. 63 lks. dist. marked $\frac{1}{4}$ S 28 B T.
55.00	Top of ascent, brs. N. and S., descend.
79.94	The cor. of secs. 28, 29, 33 and 34. Land, mountainous. Soil, gravelly; 2nd and 3rd rate. Timber, oak and mesquite. Mountainous land, exceptionally difficult to survey, 79.00 chs.

Subdivision of Township 23 South, Range 9 East.

chains

N. 0° 2' W., bet. secs. 28 and 29.
 Ascending over rough boulders.
 17.00 Top of high ridge, brs. E. and W., descend.
 34.75 Wash, 10 lks. wide, course NE.
 40.00 Set a granite stone, 18 X 12 X 10 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.
 An oak, 10 ins. diam., brs. N. 47° W., 55 lks.
 dist., marked $\frac{1}{4}$ S 29 B T.
 An oak, 6 ins. diam., brs. N. 30° E., 12 lks. dist.,
 marked $\frac{1}{4}$ S 28 B T.
 At 11h 53m a.m., l.m.t., I set off 22° 59' S. on the
 decl. arc, and observe the sun on the meridian; the
 resulting lat. is 31° 29' N.
 47.10 Gulch, 10 lks. wide, course NE.
 49.00 Gulch, 10 lks. wide, course NE., ascend.
 50.50 Top, extends E. and W.
 70.85 Gulch, 40 lks. wide, course NW., ascend.
 71.50 Gulch, 10 lks. wide, course SW.
 78.10 Gulch, 10 lks. wide, course SW,
 80.00 Set a sandstone, 18 X 12 X 8 ins., 12 ins. in the
 ground, for cor. of secs. 20, 21, 28 and 29, marked
 with 2 notches on the S. and 4 notches on the E. edge
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
 W. of cor. Pits impracticable.
 Land, mountainous.
 Soil, rocky; 3rd rate.
 Timber, a few oak.
 Mountainous land, exceptionally difficult to survey,
 80.00 chs.

 S. 89° 50' E. on a random line bet. secs. 21 and 28.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.14 Intersect the N and S line. 12 lks. N. of the cor.
 of secs. 21, 22, 27 and 28.
 Thence I run,
 N. 89° 45' W., on a true line bet. secs. 21 and 28.
 Over mountainous land.
 4.00 Gulch, vourse S.
 13.00 Gulch, course SE., ascend.
 26.00 Spur, extends SE., descend.
 32.50 Gulch, course SE.
 34.00 Gulch, course SE.
 39.00 Gulch, 10 lks. wide, course SE.,
 40.07 Set a porphyry stone, 18 X 10 X 8 ins., 12 ins. in
 the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and
 raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N.
 of cor.
 43.30 Top, extends SE. and NW.
 44.50 Gulch, 10 lks. wide, course NW., ascend.
 49.50 Top, brs. N. and S.
 58.70 Descend.
 71.00 Gulch, 10 lks. wide, course SW.
 74.30 Gulch, 10 lks. wide, course NW.
 75.60 Gulch, 10 lks. wide, course SW.
 80.14 The cor. of secs. 20, 21, 28 and 29.
 Land, mountainous.
 Soil, sandy; 3rd rate.
 Timber oak.
 Mountainous land, exceptionally difficult to survey,
 80.14 chs.

 N. 0° 2' W., bet. secs. 20 and 21.
 Ascending over mountainous land.

Subdivision of Township 23 South, Range 9 East.

chains	
8.00	Top of ascent; extends E. and W., descend.
10.00	Canyon, course S., thence W.
12.00	Leave canyon.
20.00	Gulch, 30 lks. wide, course NW., ascend.
33.00	Top, brs. E. and W., large boulder on line, 25 X 15 X 10 ft.
	Descend.
40.00	Set a sandstone, 18 X 10 X 5 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
54.00	Gulch, 5 lks. wide, course NE.
54.50	Gulch, course SE.
58.00	Top of ridge, extends E. and W.
64.75	Descend.
70.00	Redondo Wash, 60 lks. wide, course SW.
70.26	Wire fence, brs. E. and W.
72.97	Wire fence, brs. NW. and SE.
	Adobe house of Rafael Equorrola brs. W., 50 lks dist.
76.30	Wagon road, brs. NE. and SW.
77.40	Wagon road, brs. SE. and NW.
78.85	Gulch, 10 lks. wide, course SE., ascend.
80.00	Set a granite stone, 20 X 8 X 6 ins., 15 ins. in the ground, for cor. of secs. 16, 17, 20 and 21, marked with 3 notches on the S. and 4 notches on the E. edge, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
	A mesquite, 10 ins. diam., brs. N. 81° 45' E., 125 lks. dist., marked T 22 S R 9 E S 16 B T.
	A mesquite, 12 ins. diam., brs. S. 78 $\frac{1}{2}$ ° E., 114 lks. dist., marked T 22 S R 9 E S 21 B T.
	A mesquite, 12 ins. diam., brs. S. 80° W., 136 lks. dist., marked T 22 S R 9 E S 20 B T.
	A mesquite, 8 ins. diam., brs. N. 16 $\frac{1}{2}$ ° W., 26 lks. dist., marked T 22 S R 9 E S 17 B T.
	Land, mountainous.
	Soil, gravelly; 3rd rate.
	Timber, a few oaks, and mesquite.
	Mountainous land, exceptionally difficult to survey, 80.00 chs.
	December 11, 1909.

	December 12, 1909. At 8h 10m., a.m., l.m.t., I set off 31° 31' N. on the lat. arc, and 23° 01 $\frac{1}{2}$ ' S. on the decl. arc, and determine a true meridian with the solar at the cor. of secs. 16, 17, 20 and 21.
	Thence I run,
	S. 89° 45' E., on a random line bet. secs. 16 and 21.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.12	Intersect the N. and S. line at a point 3 lks. S. of the cor. of secs. 15, 16, 21 and 22.
	Thence I run,
	N. 89° 46' W. on a true line bet. secs. 16 and 21.
	Descending over mountainous land, through dense undergrowth.
4.55	Dry wash, 10 lks. wide, course SW.
6.80	Abrupt descent.
10.00	Read, brs. SW. and NE.
10.60	Dry wash, 20 lks. wide, course SW., ascend. S. slope of hill.
25.10	Top of spur; gradually descend.
34.00	Dry wash, 10 lks. wide, course SW.
40.06	Set a granite porphyry stone, 21 X 12 X 10 ins., 16 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
	A mesquite, 8 ins. diam., brs. S. 15° W., 1.75 lks. dist., marked $\frac{1}{4}$ S 21 B T.

Subdivision of Township 22 South, Range 9 East

chains	No other tree available.
58.60	Dry wash, 50 lks. wide, course SW., enter dense mesquite undergrowth.
64.00	Dry wash, 10 lks. wide, course SW.
72.63	Wire fence, brs. NE. and SW.
76.70	Dry wash, 1.00 ch. wide, course SW.
80.12	The cor. of secs. 16, 17, 20 and 21. Land, mountainous. Soil, gravelly and rocky; 3rd and 4th rate. Timber, scattering oak; undergrowth, dense mesquite. Mountainous land, or land covered with dense undergrowth, exceptionally difficult to survey, 80.12 chs.

	N. 0° 2' W., bet. secs. 16 and 17. Ascending, over mountainous land.
6.00	Wash, 20 lks. wide, course SW.
7.50	Gulch, 10 lks. wide, course E.
12.75	Top, brs. E. and W.
14.50	Descend.
27.95	Gulch, 40 lks. wide, course SW., ascend.
40.00	Set a sandstone, 18 X 10 X 6 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
47.51	Old road, brs. NE. and SW., ascend.
53.00	Top, brs. E. and W., descend.
59.00	Foot, ascend.
63.00	Hill, brs. E. and W., descend.
78.10	Wash, 20 lks. wide, course SW., ascend.
79.40	Wash, 20 lks. wide, course SW.
80.00	Set a granite stone, 18 X 8 X 6 Ins., 12 ins. in the ground, for cor. of secs. 8, 9, 16 and 17, marked with 4 notches on S. and E. edges, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. A mesquite, 12 ins. diam., brs. S. 43° 45' E., 249 lks. dist., marked T 22 S R 9 E S 16 B T. A mesquite, 12 ins. diam., brs. N. 50 $\frac{1}{4}$ ° E., 418 lks. dist., marked T 22 S R 9 E S 9 B T. No other trees within limits. Land, mountainous. Soil, gravelly; 2nd and 3rd rate. Timber, mesquite and tesoto. Mountainous land, exceptionally difficult to survey, 80 chs.

	Dec. 12; At 11h 54m a.m., l.m.t., I set off 23° 4' S. on the decl. arc, and observe the sun on the meridian, the resulting lat. is 31° 31' N. S. 89° 46' E. on a random line bet. secs. 9 and 16.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.20	Intersect the N. and S. line at a point 10 lks. N. of the cor. of secs. 9, 10, 15 and 16. Thence I run, N. 89° 42' W. on a true line bet. secs. 9 and 16. Descending over mountainous land.
2.50	Gulch, 10 lks. wide, course NE.
6.00	Top, brs. NE. and SW.
12.50	Gulch, course SW., ascend.
19.00	Top, extends NE. and SW.
28.80	Foot, gulch, 20 lks. wide, course SW., ascend.
29.90	Trail, course NE. and SW.

45

Subdivision of Township 22 South, Range 9 East.

chains

31.50

Top of ridge; extends NW. and SE., descend.

40.10

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

A mesquite, 18 ins. diam., brs. S. 35° E., 61 lks dist., marked $\frac{1}{4}$ S 16 B T.

A mesquite, 8 ins. diam., brs. N. $58\frac{1}{2}^{\circ}$ W., 31 lks dist., marked $\frac{1}{4}$ S 9 B T.

41.40

Gulch, 10 lks. wide, course NW., ascend.

60.10

Road, to Buenos Ayres, brs. NW. and SE.

63.00

Top of ascent; extends N. and S., descend.

65.00

Wire fence, brs. NW. and SE.

77.00

Wash, 20 lks. wide, course SW., ascend.

80.20

the cor. of secs. 8, 9, 16 and 17.

Land, mountainous.

Soil, gravelly; 2nd rate.

Timber, a few mesquite and oaks.

Mountainous land, exceptionally difficult to survey,

80.20 chs.

N. 0° 2' W., bet. secs. 8 and 9.

Through dense undergrowth of mesquite and tesota.

1.25

Wire fence, brs. NE. and SW.

3.65

Wash, 20 lks. wide, course NW.

11.50

Wash, 20 lks. wide, course SW.

19.80

Wash, 20 lks. wide, course SW., ascend.

32.70

Gulch, 5 lks. wide, course NW.

35.00

Top of spur; extends NW.

40.00

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

A mesquite, 4 ins. diam., brs. N. 56° 45' E., 225 lks. dist., marked $\frac{1}{4}$ S 9 B T.

No other tree available.

50.20

Old road, brs. NW. and SE.

51.50

Wash, 30 lks. wide, course NW., ascend.

53.90

Wash, 10 lks. wide, course SW.

64.00

Boulder, 6 X 4 X 4 ft., brs. W. 10 lks. dist.

65.00

Top, brs. E. and W., descend.

69.70

Gulch, 15 lks. wide, course NW., ascend.

75.50

Gulch, 15 lks. wide, course SW.

80.00

Set a porphyry stone, 18 X 10 X 5 ins., 12 ins. in the ground, for cor. of secs. 4, 5, 8 and 9., marked with 5 notches on the S. and 4 notches on the E. edge, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.

A mesquite, 24 ins. diam., brs. N. $13\frac{1}{4}^{\circ}$ E., 288 lks dist., marked T 22 S R 9 E S 4 B T.

No other trees available.

Land, mountainous.

Soil, gravelly; 2nd rate

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

Mountainous land, exceptionally difficult to survey,

80.00 chs.

December 12, 1907

Subdivision of Township 22 South, Range 9 East.

chains
December 13, 1909. At 8h a.m., l.m.t., I set off
31° 32' N. on the lat. arc, and 23° 06' S. on the
decl. arc, and determine a true meridian with the solar
at the cor. of secs. 4, 5, 8 and 9.
Thence I run,
S. 89° 42' E. on a random line bet. secs. 4 and 9.
40.00 Set temp. $\frac{1}{4}$ sec. cor.
80.40 Intersect the N. and S. line at a point 7 lks. S. of
the cor. of secs. 3, 4, 9 and 10.
Thence I run,
N. 89° 45' W. on a true line bet. secs. 4 and 9.
Over mountainous land.
5.64 Road, brs. NE. and SW.
10.50 Spur, extends SW.
21.90 Wash, 30 lks. wide, course NE., ascend.
39.00 Top of ridge, extends N. and S.
40.20 Set a granite stone, 18 X 10 X 8 ins., 12 ins. in the
ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise
a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
Pits impracticable.
46.00 Wash, 20 lks. wide, course N., ascend steep ridge.
59.50 Top of high ridge, extends N. and S., descend.
80.40 The cor. of secs. 4, 5, 8 and 9,
Land, mountainous.
Soil, gravelly and rocky; 3rd and 4th rate.
Timber, a few oaks and mesquites.
Mountainous land, exceptionally difficult to survey,
80.40 chs.

N. 0° 2' W., bet. secs. 4 and 5.
Ascending.
3.40 Wash, 10 lks. wide, course NW.
7.00 Wash, 15 lks. wide, course SW., ascend.
11.50 Top, brs. E. and W., descend.
15.20 Gulch, course SW., ascend.
17.00 Top, brs. E. and W.
32.60 Gulch, 10 lks. wide, course NW.
40.00 Set a sandstone, 20 X 10 X 8 ins., 15 ins. in the
ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and
raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of
cor. Pits impracticable.
A mesquite, 24 ins. diam., brs. N. 89 $\frac{1}{2}$ ° E., 3.18 chs
marked $\frac{1}{4}$ S 4 B T. dist.
A mesquite, 3 ins. diam., brs. N. 89° W., 1.12
chs. dist., marked $\frac{1}{4}$ S 5 B T.
40.75 Wash, 5 lks. wide, course NW.
45.50 Same wash, 5 lks. wide, course NE.
46.30 Same wash, 5 lks. wide, course NW.
54.60 Gulch, 5 lks. wide, course NE.
71.00 Gulch, 5 lks. wide, course NE.
74.00 Wash, 20 lks. wide, course NE., ascend.
80.63 Intersect the N. Bdy. of Tp. at a point 14.00 chs. N 89° 50' E.
of the cor. of secs. 32 and 33, Tp. 21 S., R. 9 E.,
where I set a sandstone, 20 X 8 X 6 ins., 15 ins.
in the ground, for closing cor. of secs. 4 and 5,
marked C C on S., with 2 notch on W. and 4 notches on
E. edge, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$
ft. high, S. of cor.
An oak, 18 ins. diam., brs. S. 46 $\frac{1}{2}$ ° E., 341 chs.
dist., marked T 22 S R 9 E S 4 C C B T.
A mesquite, 8 ins. diam., brs. S. 17° 45' W., 87
lks. dist., marked T 22 S R 9 E S 5 C C B T.

Subdivision of Township 22 South, Range 9 East.

chains

Land, mountainous.
Soil, gravelly; 3rd rate.
Timber oak and mesquite.
Mountainous land, covered with dense undergrowth,
exceptionally difficult to survey, 80.63 chs.

December 13, 1909.

December 14, 1909. At 9 h a.m., l.m.t., I set off 31° 28' N. on the lat. arc, and 23° 11' S. on the decl. arc, and determine a true meridian with the solar at the cor. of secs. 31 and 32 on the S. Bdy. of the Tp.

2.40
14.50
22.80
23.30
24.78
31.00
39.00
40.00

Thence I run,
N. 0° 2' W. bet. secs. 31 and 32.
Ascending.

Top, brs. E. and W., descend.
Descend.
Gulch, 10 lks. wide, course NW.
Toad, brs. NW. and SE.
Wash, 15 lks. wide, course NW.

Ascend steep rocky ridge, brs. E. and W.
Descend from top, extends E. and W.

Point for 1/4 sec. cor. falls on a sandstone in place, 24 X 10 X 8 ins. above ground, which I mark with a cross for 1/4 sec. cor. point, with 1/4 W. of cross, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of stone.

Ascend.

48.00
53.00
57.50
66.70
67.25
77.00
80.00

Top, extends NW. and SE., descend.
Gulch, 10 lks. wide, course SW., ascend.

Top, extends E. and W., descend.

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

Set a granite stone, 18 X 18 X 8 ins., 12 ins. in the ground, for cor. of secs. 29, 30, 31 and 32, marked with 1 notch on the S. and 5 notches on the E. edge, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable.

A mesquite, 6 ins., diam., brs. S. 72° W., 339 lks. dist., marked T 22 S R 9 E S 31 B T.
No other trees available.

Land, mountainous.
Soil, gravelly; 3rd rate.
Timber, scattering mesquite.
Mountainous land, exceptionally difficult to survey,
80.00 chs.

At 11h 55m a.m., l.m.t., I set off 23° 12' S. on the decl. arc, and observe the sun on the meridian; the resulting lat. is 31° 29' N.

40.00
80.08

S. 89° 43' E. on a random line bet. secs. 29 and 32.
Set temp. 1/4 sec. cor.

Intersect the N. and S. line at a point 16 lks. S. of cor. of secs. 28, 29, 32 and 33.

Thence I run, ascending

10.00
23.00
28.00
35.00
40.04

N. 89° 50' W., on a true line bet. secs. 29 and 32.
Top brs. N. and S., descend.

Gulch, 30 lks. wide, course SW., ascend.
Top of spur, extends S.

Foot.

Set a sandstone, 18 X 8 X 6 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor. pits impracticable.

Subdivision of Township 22 South, Range 9 East.

chains	
45.10	Wash, 10 lks. wide, course SW., ascend.
49.20	Top, extends NE. and SW.
52.60	Wash, 10 lks. wide, course SW.
52.90	Wash, 10 lks. wide, course SW.
53.50	Gulch, 10 lks. wide, course SW.
58.70	Gulch, 15 lks. wide, course NW.
62.00	TOP, descend.
66.75	Gulch, 10 lks. wide, course NW.
70.00	Top of spur, extends NW., descend.
80.08	The cor. of secs. 29, 30, 31 and 32. Land, mountainous. Soil, gravelly; 3rd rate. Timber, a few oaks and mesquite. Undergrowth, dense mesquite and tesota. Mountainous land, covered with dense undergrowth, exceptionally difficult to survey, 80.08 chs.

	N 89° 43' W. on a random line bet. secs. 30 and 31.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
92.30	Intersect the W. bdy. of Tp. at a point 45 lks. N. of the cor. of secs. 25 ^{30, 31} and 36, previously set by me. Thence I run, East on a true line bet. secs. 30 and 31. Ascending.
2.30	Top, brs. N. and S., descend.
4.80	Gulch, 5 lks. wide, course SE., ascend.
6.30	Top, brs. N. and S., descend.
9.00	Foot.
10.00	Wash. 15 lks. wide, course SE.
11.80	Wash, 20 lks. wide, course SE.
13.30	Wash, 40 lks. wide, course SW.
16.30	Wash, 30 lks. wide, course SW.
22.30	Garcia's ranch brs. N. About 8.00 chs. dist.
40.10	Road, brs. NW. and SE., ascend.
42.80	Top, brs. N. and S., descend.
52.30	Set a granite stone, 18 x 13 x 7 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
50.20	Road, brs. NW. and SE. ascend.
55.30	Top, extends NW., and SE., descend.
63.60	Gulch, 50 lks. wide, course NW., ascend.
69.80	Same gulch, 50 lks. wide, course SW.
72.30	Top, brs. N. and S.
77.80	Wash, 40 lks. wide, course W.
81.55	Gulch, 50 lks. wide, course SW.
85.80	Gulch, 50 lks. wide, course SW.
92.30	The cor. of secs. 29, 30, 31 and 32, Land, mountainous and rolling. Soil, gravelly, 2nd and 3rd rate. Timber, a few mesquite. Mountainous land, or land covered with dense undergrowth, exceptionally difficult to survey, 92.30 chs. December 14th, 1909

	December 15, 1909; At 8h 30m a.m., l.m.t., I set off 31° 29' N. on the lat. arc, and 23° 14' S. on the decl. arc, and determine a true meridian with the solar at the cor. of secs. 29, 30, 31, and 32.
	Thence I run, N. 0° 2' W., bet. secs. 29 and 30. Descending.
5.75	Wash, 40 lks. wide, course NW., ascend.
9.00	Road, brs. E. and W.
10.25	Gulch, 10 lks. wide, course W., ascend.
22.00	Top of spur; extends W.

Subdivision of Township 22 South, Range 9 East.

chains

30.00 Gulch; 30 lks. wide, course NW., ascend.
 31.00 Top, brs. E. and W.
 32.80 Gulch, 30 lks. wide, course NW., ascend.
 40.00 Set a sandstone, 18 X 8 X 6 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high; W. of cor. Pits impracticable.
 48.50 Top, brs. E. and W.
 57.50 Top, brs. E. and W., descend.
 66.20 Gulch, 15 lks. wide, course NW., ascend.
 80.00 Set a porphyry stone, 18 X 10 X 8 ins., 12 ins. in the ground, for cor. of secs. 19, 20, 29 and 30, marked with 2 notches on the S., and 5 notches on the E. edge, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
 A mesquite, 8 ins. diam., brs. N. $47^{\circ} 45'$ W., 292 lks. dist., marked T 22 S R 9 E S 19 B T.
 A mesquite, 8 ins. diam., brs. N. $11\frac{1}{2}^{\circ}$ E., 136 lks. dist., marked T 22 S R 9 E S 20 B T.
 No other trees available.
 Land, mountainous.
 Soil, gravelly and rocky, 3rd rate.
 Timber, a few mesquite.
 Mountainous land, exceptionally difficult to survey, 80.00 chs.

At 11h 55 m a.m.; l.m.t., I set off $23^{\circ} 15\frac{1}{2}'$ N. on the decl. arc, and observe the sun on the meridian; the resulting lat. is $31^{\circ} 30'$ N.
 S. $89^{\circ} 50'$ E. on a random line bet. secs. 20 and 29.
 40.00 Set a temp. $\frac{1}{4}$ sec. cor.
 80.06 Intersect the N. and S. line at the corner of secs. 20, 21, 28 and 29.
 Thence I run, N. $89^{\circ} 50'$ W. on a true line bet. secs. 20 and 29.
 Ascending.
 1.00 Top, brs. N. and S., descend.
 25.50 Gulch, 30 lks. wide, course NW.
 35.00 Gulch, 15 lks. wide; course NW.
 37.00 Top, brs. SE. and NW.
 38.30 Wash, 15 lks. wide, course NW., ascend.
 40.03 set a sandstone, 18 X 12 X 10 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
 A mesquite, 16 ins. diam., brs. N. $43\frac{1}{2}^{\circ}$ E., 42 lks. dist., marked $\frac{1}{4}$ S 20 B T.
 A mesquite, 24 ins. diam., brs. S. 67° E., 129 lks. dist., marked $\frac{1}{4}$ S 29 B T.
 45.00 Top, brs. SE. and NW., descend.
 63.00 Foot; ascend.
 72.00 Top, brs. SE. and NW.
 80.06 The cor. of secs. 19, 20, 29 and 30.
 Land, mountainous.
 Soil, gravelly; 3rd and 4th rate.
 Timber, a few mesquite; undergrowth; mesquite and tesota.
 Mountainous land, exceptionally difficult to survey, 80.06 chs.

West, on a true line bet. secs. 19 and 30.
 Ascending over rocky boulders.
 10.00 Ridge, extends NE. and SW.
 25.00 Wash, 10 lks. wide, course SW.
 40.00 Set a granite stone, 18 X 10 X 8 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.

Subdivision of Township 22 South, Range 9 East.

chains
 40.30 Wash, 10 lks. wide, course SW.
 41.80 Road, brs N. and S.
 47.50 Wash, 1.50 chs. wide, course SSW., ascend.
 62.00 Road, brs. N. and S., descend.
 70.20 Wash, 20 lks. wide, course S.
 93.17 Intersect the West Bdy. of Tp. at a point 72 lks S0°25'E.
 of the cor. of secs. 24 and 25, Tp. 22 S., R. 8 E.
 where I set a granite stone, 18 X 10 X 5 ins., 12
 ins. in the ground, for closing cor. of secs. 19 and
 30, marked C C on E., with 2 notches on S. and 4
 notches on N. edge, and raise a mound of stone, 2
 ft. base, 1½ ft. high, E. of cor. Pits impracticable
 Land, mountainous.
 Soil, gravelly and rocky; 3rd rate.
 Timber, scattering oaks.
 Mountainous land, exceptionally difficult to survey,
 93.17 chs.

December 15, 09

December 16, 1909. At 8h 20m., a.m., l.m.t., I set off
 31° 30' N. on the lat. arc, and 23° 16' S. on the
 decl. arc, and determine a true meridian with the
 solar at the cor. of secs. 19, 20, 29 and 30.

Thence I run,
 N. 0° 2' W., bet. secs. 19 and 20.

Ascending.

15.00 Ridge, brs. E. and W., descend.
 25.00 Wash, 40 lks. wide, course SW., (Redond) ascend.
 38.00 Road, brs. SW. and NE
 40.00 Set a granite stone, 18 X 10 X 8 ins., 12 ins. in the
 ground, for ¼ sec. cor., marked ¼ on W. face, and
 raise a mound of stone, 2 ft. base, 1½ ft. high, W.
 of cor. Pits impracticable.
 A mesquite, 8 ins. diam., brs. S. 37° 45' E., 81
 lks. dist., marked ¼ S 20 B T.
 A mesquite 12 ins. diam., brs. S. 31½° W., 191
 lks. dist., marked ¼ S 19 B T.
 50.00 Ridge, extends E. and W., descend.
 62.00 Wash, 10 lks. wide, course SE.
 80.00 Set a granite stone, 18 X 10 X 8 ins., 12 ins. in the
 ground, for cor. of secs. 17, 18, 19 and 20,
 marked with 3 notches on the S. and 5 notches on the
 E. edge, and raise a mound of stone, 2 ft. base, 1½
 ft. high, W. of cor. Pits impracticable.
 Land, mountainous.
 Soil, gravelly and rocky; 2nd and 3rd rate.
 Timber, a few mesquite.

S. 89° 50' E. on a random line bet. secs. 17 and 20.

40.00 Set temp. ¼ sec. cor.

80.20 Intersect the N. and S. line at the cor. of
 secs. 16, 17, 20 and 21.

Thence I run,

N. 89° 50' W. bet. secs. 17 and 20.

3.00 Wash, 2.00 chs. wide, course SW.

4.20 Road, brs. N. and S.

13.80 Road, brs. NW. and SE.

18.38 Wire fence, brs. NE. and SW.

19.55 Road, brs. NW. and SE.

40.10 Set a granite stone, 18 X 8 X 4 ins., 12 ins. in the
 ground, for ¼ sec. cor., marked ¼ on N. face, and
 raise a mound of stone, 2 ft. base, 1½ ft. high, N.
 of cor. Pits impracticable.

At 11h 56m. am., l.m.t., I set off 23° 18' S. on the
 decl. arc, and observe the sun on the meridian; the
 resulting lat. is 31° 31' N.

Subdivision of Tp. 22 South, Range 9 East.

	chains	
		A mesquite, 30 ins. diam., brs. S. 20° 45' W. 90 lks. dist., marked $\frac{1}{4}$ S 20 B T.
		A mesquite, 6 ins. diam., brs. N. 58° 45' E., 157 lks, dist., marked $\frac{1}{4}$ S 17 B T.
51.80		Wash, 40 lks. wide, course SW.
54.20		Wash, 30 lks. wide, course NW.
57.20		Wash, 40 lks. wide, course SW.
69.10		Road, brs. NE. and SW.
80.20		The cor, of secs. 17, 18, 19 and 20. Land, rolling hills Soil, gravelly and rocky; 3rd and 4th rate. Timber, mesquite; undergrowth, mesquite..
		----- West, bet. secs. 18 and 19, on true line. Through sparse oak timber and gently rolling hills.
14.30		Dry wash, 10 lks. wide, course SW,
32.20		Dry wash, 15 lks. wide, course NW.
40.00		Set a granite stone, 18 X 12 X 6 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. Pits impracticable. An oak, 10 ins. diam., brs. S. 57 $\frac{1}{4}$ °E., 156 lks. dist., marked $\frac{1}{4}$ S 19 B T. An oak, 4 ins. diam., brs. N. 74° 45' W., 116 lks. dist., marked $\frac{1}{4}$ S 18 B T.
		Over rough rolling granite hills.
64.60		Dry wash, 10 lks. wide, course SW.
67.30		Dry wash, 10 lks. wide, course SW.
71.00		Dry wash, 25 lks. wide, course SW.
87.00		Dry wash, 10 lks. wide, course S.
92.60		Dry wash, 10 lks. wide, course S.
93.32		intersect the West Bdy. of Tp. at a point 1.70 chs S6°10'W. of the cor. of secs. 13 and 24, where I set a sandstone, 18 X 8 X 6 ins., 12 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 stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, E. of cor. A mesquite, 30 ins. diam., brs. N. 95 $\frac{1}{4}$ ° E., 38 lks. dist., marked T 22 S R 9 E S 18 C C B T. A hackberry, 14 ins. diam., brs. S. 27 $\frac{1}{4}$ °E., 166 lks. dist., marked T 22 S R 9 E S 19 C C B T.
		Land, mountainous. Soil, gravelly; 3rd rate. Timber, a few oak and mesquite. Mountainous land, exceptionally difficult to survey, 93.32 chs.
		----- december 16, 1909/ -----
		December 18th, 1909. At 8h 25m., a.m., 1.m.t., I set off 31° 31' N., on the lat. arc, and 23° 21' S. on the decl. arc, and determine a true meridian with the solar at the cor. of secs. 17, 18, 19 and 20.
		Thence I run, North 0° 2' W., bet. secs. 17 and 18.
30.80		Wash, 15 lks. wide, course W.
32.20		Road, brs. NW. and S ^e .
37.00		Road, brs. NW. and SE.
40.00		Set a granite stone, 18 X 10 X 8 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. A mesquite, 6 ins. diam., brs. S. 24 $\frac{1}{2}$ ° E., 36 lks. dist, marked $\frac{1}{4}$ S 17 B T. A mesquite, 8 ins. diam., brs. N. 25° W., 3.60 lks. dist., marked $\frac{1}{4}$ S 18 B T.
46.90		Wash, 1.00 chs. wide, course W., ascend.
68.54		Road, brs. E. and W.
78.20		Wash, 25 lks. wide, course W.

Subdivision of Township 22 South, Range 9 East.

chains

78.48

Mesquite, 12 ins. diam., on line.

80.00

Set a granite stone, 18 X 10 X 6 ins., 12 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, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable.

A mesquite, 8 ins. diam., brs. N. 81° E., 345 lks. dist., marked T 22 S R 9 E S 8 B T.

A tesota, 8 ins. diam., brs. S. 55° E., 132 lks. dist., marked T 22 S R 9 E S 17 B T.

A mesquite, 8 ins. diam., brs. S. 38 1/2° W., 281 lks. dist., marked T 22 S R 9 E S 18 B T.

A mesquite, 8 ins. diam., brs. N. 49° 45' W., 339 lks. dist., marked T 22 S R 9 E S 7 B T

Land, mountainous and rocky.

Soil, gravelly; 2nd and 3rd rate.

Timber, a few mesquite and oak.

Mountainous land, exceptionally difficult to survey, 80. chs.

At 11h 57m. a.m., l.m.t., I set off 21° 23' S. on the decl. arc, and observe the sun on the meridian; the resulting lat. is 31° 31' N.

S. 89° 50' E., on a random line bet. secs. 8 and 17.

40.00

Set temp. 1/4 sec. cor.

80.40

Intersect the N. and S. line at the cor. of secs. 8, 9, 16 and 17.

Thence I run,

N. 89° 50' W., on a true line bet. secs. 8 and 17.

2.95

Wire fence, brs. NW. and SE.

4.60

Wash, 30 lks. wide, course SW., ascend.

10.00

Top of ridge, extends NE. and JW.

28.60

Wash, 15 lks. wide, course NW.

40.20

Set a limestone, 18 X 8 X 4 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor. Pits impracticable.

A mesquite, 10 ins. diam., brs. N. 44° E., 76 lks. dist., marked 1/4 S 8 B T.

A mesquite, 12 ins. diam., brs. S. 47 1/2° E., 172 lks. dist., marked 1/4 S 17 B t.

52.10

Wash, 20 lks. wide, course NW.

63.80

Road, brs. NW. and SE.

80.40

The cor. of secs. 7, 8, 17 and 18.

Land, level and rolling.

Soil, gravelly; 2nd rate.

Timber, some mesquite; undergrowth, dense mesquite and tesota.

Land covered with dense undergrowth, 80.00 chs.

December 18, 1909.

December 19, 1909. At 8h 0m a.m., l.m.t., I set off 31° 31' N. on the lat. arc, 23° 22' S. on the decl. arc, and determine a true meridian with the solar at the cor. of secs. 7, 8, 17 and 18.

Thence I run,

West, on a true line bet. secs. 7 and 18.

19.10

Road, brs. N. and S.

22.00

Wash, 20 lks. wide, course W.

40.00

Point for 1/4 section. falls on a granite rock in place, 4 ft. X 2 1/2 ft X 2 1/2 ft. above ground, which I mark with a cross for exact 1/4 sec. cor. point, with 1/4 N. of cross, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.

52.90

Wash, 25 lks. wide, course SW.

59.90

Ridge, extends N. and S.

Subdivision of Township 22 South, Range 9 East.

chains	
61.00	Ridge, brs. NW. and SE.
67/00	Wash, 40 lks. wide, course SW.
78.80	Wash, 20 lks. wide, course W.
84.50	Wash, 20 lks. wide, course NW.
89.00	Wash, 15 lks. wide, course SW.
91.00	Set a granite stone, 18 X 10 X 6 ins., 12 ins. in the ground, for witness cor. to closing cor. of secs. 7 and 18, marked W C C C on E. face, with 2 notches on the N and 4 notches on the S. edge, and raise a mound of stone, 2 ft. base, 1½ ft. high, E. of cor. Pits impracticable. A mesquite, 6 ins. diam., brs. S. 47° 45' E., 182 lks. dist., marked T 22 S R 9 E S 18 W C C C B T. A tesota, 5 ins. diam., brs. N. 81° E., 223 lks. dist., marked T 22 S R 9 E S 7 W C C C B T.
93.50	Wash (enter)
94.35	Intersect the W. Bdy. of Tp. at a point 60 lks. S. 4° 15' W. of cor. point of secs. 12 and 13, Tp. 22 S., R. 8 E. Land, rolling. Soil, gravelly, 2nd rate. Timber, scattering mesquite and tesota.

	N. 0° 2' W., bet. secs. 7 and 8.
11.50	Ridge, extends E. and W.
11.70	Road, brs. E. and W.
25.00	Wash, 2.00 chs. wide, course W.
39:95	Wash, 15 lks. wide, course W.
40.00	Impossible to establish ¼ sec. cor., falls in wash.
41.00	Set a sandstone, 18 X 10 X 8 ins., 12 ins. in the ground for witness cor. to ¼ sec. cor., marked W C ¼ on W. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. A mesquite, 8 ins. diam., brs. S. 7° 45' W., 205 lks. dist., marked ¼ S 7 W C B T. A mesquite, 8 ins. diam., brs. S. 44½° E., 280 lks. dist., marked ¼ S 8 W C B T.
72.00	Ridge, brs. NE. and SW.
78.00	Wash, 25 lks. wide, course W.
80.00	Set a granite stone, 18 X 8 X 6 ins., 12 ins. in the ground, for cor. of secs. 5, 6, 7, and 8, marked with 5 notches on S. and E. edges and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable. A mesquite, 8 ins. diam., brs. S. 31° E., 183 lks. dist., marked T 22 S R 9 E S 8 B T. A mesquite, 30 ins. diam., brs. S. 69¼° W., 287 lks. dist., marked T 22 S R 9 E S 7 B T. No other trees Land, rolling. Soil, gravelly; 2nd rate. Timber, a few mesquite

	At 11h 58' a.m., l.m.p., I set off 23° 24' S., on the decl. arc, and observe the sun on the meridian; the resulting lat. is 31° 32' N. S. 89° 50' E., on a random line bet. secs. 5 and 8.
40.00	Set temp. ¼ sec. cor.
80.40	Intersect the N. and S. line at the corner of secs 4, 5, 8 and 9. Thence I run, N. 89° 50' W. on a true line bet. secs. 5 and 8. Over rolling land.
19.67	Road, brs. NW. and SE.
25.86	Wash, 15 lks. wide, course NW.
40.20	Set a porphyry stone, 18 X 10 X 6 ins., 12 ins. in the

Subdivision of Tp. 23 South, Range 9 East.

chains	<p>ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.</p> <p>A mesquite, 4 ins. diam., brs. S. 5° W., 247 lks. dist., marked $\frac{1}{4}$ S 8 B T.</p> <p>A mesquite, 4 ins. diam., brs. N. 11° E. 211 lks. dist., marked $\frac{1}{4}$ S 5 B T.</p>
59.90	Wash, 30 lks. wide, course NW.
80.40	The cor. of secs. 5, 6, 7, and 8.
	Land, rolling.
	Soil, sandy and gravelly; 2nd and 3rd rate.
	Timber, dense mesquite; undergrowth, a few mesquite and tesota.
	Land covered with dense undergrowth, 80.40 chs.

	West, on a true line bet. secs. 6 and 7.
	Over rolling land, covered with dense mesquite, cacti, and ocotilla undergrowth.
3.70	Wash, 20 lks. wide, course NW.
17.00	Road, brs. N. and S.
23.00	Wash, 20 lks. wide, course NW.
40.00	Set a granite stone, 18 X 10 X 8 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
43.20	Wash, 25 lks. wide, course N.
58.00	Road, brs. N. and S.
62.00	Wash, NW foot of descent.
67.20	Wash, 2.00 chs. wide, course SW.
70.00	Top of ridge, brs. NE. and SW.
74.52	Road, brs. NW. and SE.
87.00	Road, brs. NE. and SW.
94.22	Intersect the W. bdy. of Tp. at a point 67 lks. S. of the cor. of secs. 1 and 12, Tp. 23 S., R. 8 E., where I set a granite stone, 18 X 8 X 6 ins., 12 ins. in the ground, for closing cor. of secs. 6 and 7, marked C C on E., with 1 notch on N., and 5 notches on S. edge, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, E. of cor. Pits impracticable.
	Land, rolling.
	Soil, gravelly; 2nd and 3rd rate.
	Undergrowth, mesquite, cacti and ocotilla.

	N. 0° 2' W. bet. secs. 5 and 6.
	Over rolling land, through mesquite timber.
18.50	Wash, 15 lks. wide,, course NW.
23.55	Wash, 20 lks. wide, course NW.
27.12	Wash, 20 lks. wide, course W.
40.00	Set a granite stone, 18 X 8 X 6 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
	A mesquite, 8 ins. diam., brs. S. $29\frac{1}{2}^{\circ}$ E., 62 lks. dist., marked $\frac{1}{4}$ S 5 B. T.
	No other tree available.
79.84	Intersect the N. Bdy. of T. at a point 13.75 chs. E. of the cor. of secs. 31 and 32, Tp. 21 S., R. 9 E., where I set a granite stone, 18 X 10 X 6 ins., 12 ins. in the ground, for closing cor. of secs. 5 and 6 marked C C on S., with 1 notch on W. and 5 notches on E. edge, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, S. of cor.
	A mesquite, 10 ins. diam., brs. S. $53\frac{1}{4}^{\circ}$ E., 322 lks. dist., marked T 22 S R 9 E S 5 C C B T.

Subdivision of Township 22 South, Range 9 East.

chains A mesquite, 10 ins., diam., brs. S. 79° 45' W.,
 194 lks. dist., marked T 22 S R 9 E S 6 C C B T.
 Land, rolling.
 Soil, sandy and gravelly; 2nd and 3rd rate.
 Timber, mesquite.

December 19, 1909.

General Description.

This township is exceptionally hilly and mountainous except a few miles along the west tier of sections, which is rolling land. There are several large washes traversing the township from NE. to SW.

Rafael Equorrola's ranch is in section 20 and Garcia's in section 30. Ramon Corona resides in sec. 2. and Adolfo Mirandan and Fermin Lopez in sec. 6.

Philip Conzen
 U.S. Deputy Surveyor.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Philip Contzen

....., 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

exteriors and subdivision lines of S. 22 S. R. 9 E

showing the respective capacities in which they acted:

Budd Dozier Chainman.

Homer Batte Chainman.

Manuel Salazar Moundman.

..... Moundman.

Manuel Salazar Axman.

..... Axman.

Esteban Lopez Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Philip Contzen

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

Exteriors and subdivision lines of S. 22 S. R. 9 E

..... of the

G. & S. R. B. T meridian, Arizona 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

Budd Dozier Chainman.

Homer Batte Chainman.

Manuel Salazar Moundman.

..... Moundman.

Manuel Salazar Axman.

..... Axman.

Esteban Lopez Flagman.

Subscribed and sworn to before me this 31st

day of December, 1909



H. G. Power

Notary Public, Pima County, Arizona Territory.

My Commission Expires May 10th, 1912.

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BOOK 2191 FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Philip Contzen United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Frank S. Lugsalls United States Surveyor General for Arizona, bearing date of the 11 day of April, 1907, 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 exterior and subdivision lines of
T. 22 S. R. 9 E. of the G. & S. R. Base & 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.

Philip Contzen
United States Deputy Surveyor.

Subscribed by said Philip Contzen, and sworn to before me }
this 5th day of January 1910

W. H. ...
U.S. Commissioner



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Ariz Aug 22, 1910
The foregoing field notes of the survey of the subdivision lines of T. 22 S. R. 9 E. of the G. & S. R. Base and Meridian Arizona

executed by Philip Contzen U.S. Deputy Surveyor under his contract No. 644, dated April 11, 1907, 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. Lugsalls
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.