

- 1842 -

Book 'D'

DE-27-901

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# FIELD NOTES

OF THE SURVEY OF THE

*Subdivision lines and  
Auxiliary Base line  
of  
T. 24 S. R. 17 E*

- 1842 -

1842

Of the *Gila & Salt River* Meridian,  
*Territory, Arizona*

AS SURVEYED BY

*Philip Contzen*

, United States Deputy Surveyor,

Under his Contract No. *115*, dated *March 15<sup>th</sup>*, *1894*

Survey commenced *September 16<sup>th</sup>*, *1894*

Survey completed *September 24<sup>th</sup>*, *1894*

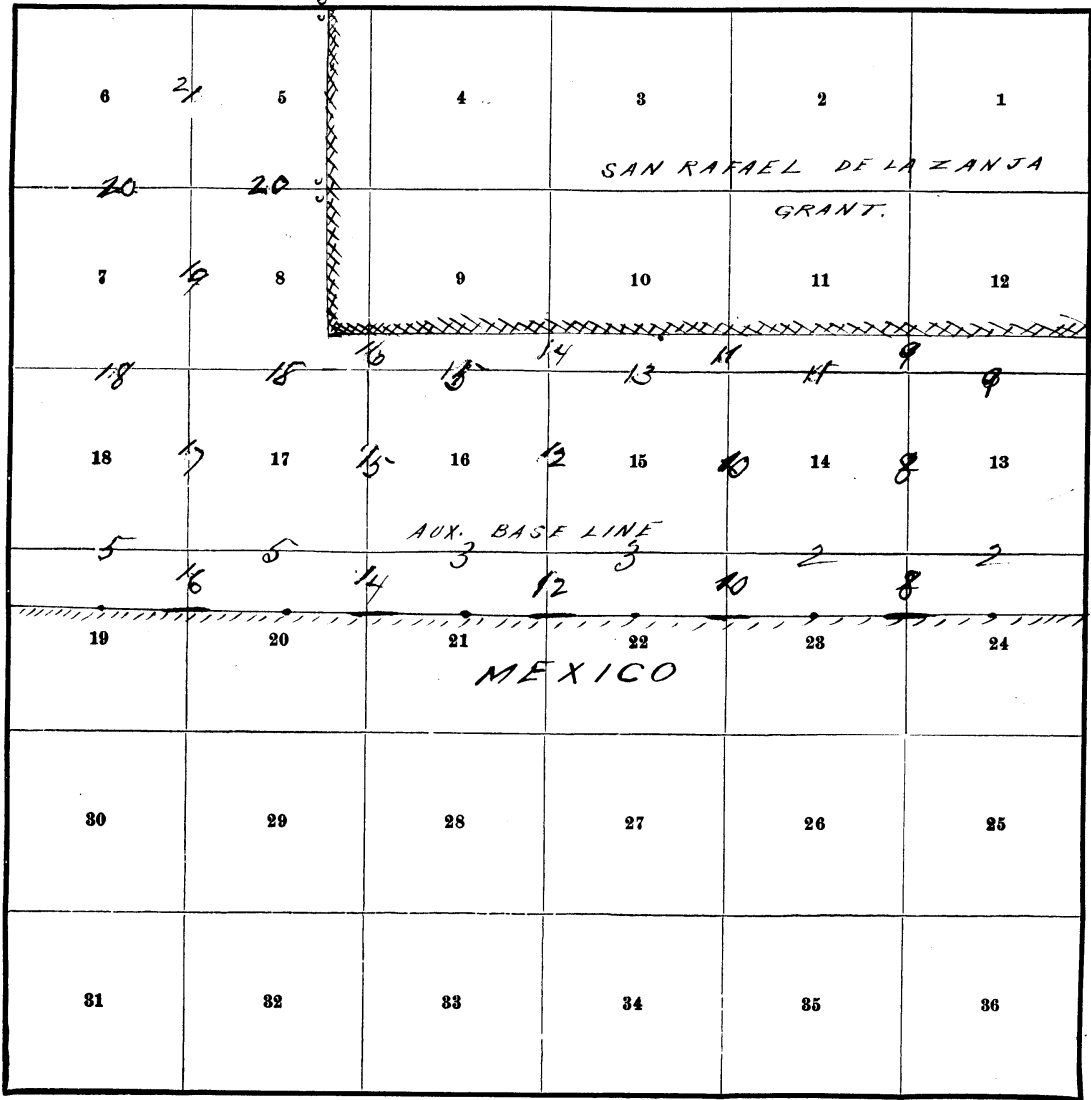
## NAMES AND DUTIES OF ASSISTANTS.

H. W. Higgins,	chairman
Mariano Adorame,	chairman
Juquin Bonillas,	woundman
Manuel Salazar,	woundman
Chas. M. Pogue,	ax man
Tom Jones,	ax man
Arthur Pogue,	flag man

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INDEX DIAGRAM.

Township 24 S., Range 17 E



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

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BOOK 1842

PRELIMINARY OATHS OF ASSISTANTS.

WE, H. W. Huggins and Mariano Adorame  
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over 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 subdivision lines and auxiliary base line T. 24 N. R. 17 E

H. W. Huggins, Chainman. ✓

Mariano Adorame, Chainman. ✓

Subscribed and sworn to before me this 14<sup>th</sup>  
day of September, 18904



H. G. Power

NOTARY PUBLIC,  
YUMA COUNTY, ARIZONA  
MY COMMISSION EXPIRES  
April 27<sup>th</sup> 1908

WE, Joaquin Bonillas and 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 subdivision lines and auxiliary base line T. 24 N. R. 17 E

Joaquin Bonillas, Moundman. ✓

Manuel Salazar, Moundman. ✓

Subscribed and sworn to before me this 14<sup>th</sup>  
day of September, 18904



H. G. Power

NOTARY PUBLIC,  
YUMA COUNTY, ARIZONA  
MY COMMISSION EXPIRES  
April 27<sup>th</sup> 1908

WE, Charles M. Pogue and Tom Jones  
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 subdivision lines and auxiliary base line T. 24 N. R. 17 E

Chas M. Pogue, Axman. ✓

Tom Jones, Axman. ✓

Subscribed and sworn to before me this 14<sup>th</sup>  
day of September, 18904



H. G. Power

NOTARY PUBLIC,  
YUMA COUNTY, ARIZONA  
MY COMMISSION EXPIRES  
April 27<sup>th</sup> 1908

I, Arthur Pogue, 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 subdivision lines and auxiliary base line T. 24 N. R. 17 E

Arthur Pogue, Flagman. ✓

Subscribed and sworn to before me this 14<sup>th</sup>  
day of September, 18904



H. G. Power

NOTARY PUBLIC,  
YUMA COUNTY, ARIZONA  
MY COMMISSION EXPIRES  
April 27<sup>th</sup> 1908

Chains

Preliminary to commencing the subdivision of this township, in compliance with my instructions, I proceeded to establish an auxiliary base line. I begin at the cor. of secs. 13, 18, 19 and 24, on the E. bdy. of the Sp., which is a sandstone  $18, 10 \times 10 \times 10$  ins. above ground, firmly set, and marked and witnessed as described by the surveyor general.

Survey commenced September 16, 1904, and executed with a Young and Sons light mountain transit, No. 5607, with solar attachment. 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, June 10, 1904.

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 above cor., latitude  $31^{\circ}20' N$ ; longitude  $110^{\circ}34' W$  N; I set off  $31^{\circ}29' N$ , on the lat. arc;  $2^{\circ}32' N$  on the decl. arc; and, at  $3^{\text{h}55^{\text{m}}}$  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.

At  $7^{\text{h}47^{\text{m}}}$  p.m., l.m.t., by my watch, which is correct, I observe Polaris at eastern 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.

September 16, 1904.

September 17: At  $6:20$  a.m., <sup>l.m.t.</sup> I lay off the azimuth of Polaris,  $1^{\circ}25'$  to the west, and mark the meridian thus determined, by cutting a small groove in the stone set September 16, on which the meridian falls 0.3 ins. east of the mark determined by the solar.

At  $7^{\text{h}40^{\text{m}}}$  a.m., l.m.t., I set off  $31^{\circ}20' N$ , on the lat. arc;  $2^{\circ}18' N$  on the decl. arc; and mark a point in the meridian de-

Chains  
 terminated with the solar, by a cross on the stone already set 5  
 chs. N. of my station; this mark falls 0.8 ins. west of the  
 meridian established by the solar observation.  
 The solar apparatus, by p.m. and a.m. observations, de-  
 fines positions for meridians, respectively about 0'16" east  
 and west of the meridian established by the  
 solar observations; therefore, I conclude that the ad-  
 justments of the instrument are satisfactory.  
 The magnetic bearing of the true meridian, at 7h 30<sup>00</sup>  
 a.m., is N. 12° 29' W.; the angle thus determined gives  
 the mag. decl. 12° 29' E.

Plum & run  
 W. bet. secs. 13. and 24.  
 Over mountainous land, ascending.  
 20.00 Bridge, bears N. W. and S. E.; descend.  
 38.50 Draw, 2 chs. wide, course S. E.; ascend.  
 40.00 Set a sandstone, 18 x 8 x 8 ins., 12 ins. in the ground, for 1/4  
 sec. cor. marked 1/4 on N. face; and raise a mound of stone,  
 2 ft. base, 1 1/2 ft. high, N. of cor.  
 50.00 Bridge, bears N. W. and S. E.; descend.  
 60.00 Enter draw, course N. W.  
 77.50 Leave draw and ascend.  
 80.00 Set a sandstone, 18 x 8 x 8 ins., 12 ins. in the ground, for cor.  
 of secs. 13, 14, 23 and 24, marked with 1 notch on E. and 3  
 notches on S. edge, and raise a mound of stone, 2 ft. base,  
 1 1/2 ft. high, N. of cor.  
 Land, mountainous and level.  
 Soil, gravelly loam; and rocks.  
 No timber.  
 Mountainous land, 62.50 chs.

W. bet. secs. 14 and 23.  
 Over mountainous land, ascending.  
 100. Bridge, bears N. W. and S. E.; descend.  
 25.50 Enter draw, course S. S. W.  
 27.40 Dry wash, 20 chs. wide, course S. S. W.  
 31.00 Leave draw, ascend.  
 40.00 Set a sandstone, 18 x 10 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.

Chains

42.00 Bridge, bars N. and S. descend.  
 43.00 Enter Santa Cruz valley, bars N. and S.  
 47.50 Santa Cruz river, 80 lbs. wide, course S. S. W.  
 52.20 Sprong of Santa Cruz river, 1 ch. wide, course S. S. E.  
 63.80 Sprong of Santa Cruz river, 30 lbs. wide, course S. E.  
 74.00 Grass valley, bars N. and S. ascend.  
 80.00 Set a sandstone, 18x8x6 ins., 12 ins. in the ground, for cor.  
 of sres. 14, 15, 22 and 23, marked with 2 notches on E. and  
 3 notches on S. edge, and raise a mound of stone, 2 ft. base,  
 1 1/2 ft. high, N. of cor.  
 Land, mountainous and level.  
 Soil, rich and gravelly loam; 1st, 2nd and 3rd rates.  
 No timber.  
 Mountainous land, 48.50 chs.  
 September 17: At this ev I set off <sup>12° 13'</sup> Now the decl.  
 was and at 12<sup>h</sup> 5<sup>m</sup> l. m. t. observed the sun on the meridian,  
 the resulting lat. is 31° 20' N within 1' of the  
 proper lat.

W. bet. sres. 15 and 22.  
 Over mountainous land, ascending.  
 9.00 Bridge, bars N. and S.; descend.  
 24.70 Dry wash, 40 lbs. wide, course S.; ascend.  
 35.10 River fork, bars N. and S.  
 40.00 Set a sandstone, 18x8x8 ins., 12 ins. in the ground, for  
 1/4 sres. cor. marked 4 on N. face; dig pits, 18x18x12 ins., E.  
 and W. of stone, 3 ft. dist., and raise a mound of earth,  
 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.  
 76.22 River, bars N. and S. W.  
 80.00 Set a sandstone, 18x12x8 ins., 12 ins. in the ground, for cor.  
 of sres. 15, 16, 21 and 22, <sup>24 S on N. E. and 17 E on S. E. faces</sup> marked with 3 notches on E. and  
 S. edges; dig pits, 18x18x12 ins., in each sres., 5 1/2 ft. dist.,  
 and raise a mound of earth 4 ft. base, 2 ft. high, N. of cor.  
 This cor. stands 200 ft. above 1/4 sres. cor.  
 Land, mountainous.  
 Soil, gravelly loam, 2nd. and 3rd rates.  
 No timber.  
 Mountainous land, 80.00 chs.

W. bet. sres. 16 and 21.  
 Over mountainous land, ascending.

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Chains

- 21.50 Bridge, bars N. and S.; descend.
- 32.00 Draw, 1 ch. wide, course S. E.; ascend.
- 39.50 Bridge, 100 ft. above draw; bars N. and S.; descend.
- 41.00 Set a granite stone, 18 x 8 x 8 ins., 12 ins. in the ground, for  
 at 1/4 sec. cor. marked 4 on N. face; and raise a mound of stone,  
 2 ft. base, 1 1/2 ft. high, N. of cor. Pits impracticable.
- 44.60 Wire fence, bars N. N. W. and S. S. E.
- 47.50 Draw, 2 chs. wide, course S. E.; ascend.
- 49.90 Wire fence, bars N. N. W. and S. S. E.
- 51.00 School customs house, bars about 16 chs S.
- 51.90 Wire fence, bars N. N. W. and S. S. E.
- 53.00 School house, bars 10 chs S.
- 53.27 Road, bars N. N. W. and S. S. E.; top, bars N. and S.; descend.
- 56.00 Wire fence, bars N. N. W. and S. S. E.
- 61.00 Coward house, bars 6 chs S.
- 61.10 Dry wash, 10 chs. wide, course S. E.; ascend.
- 64.00 School house, bars 4 chs S.
- 66.62 Wire fence, bars N. and S. W.
- 67.50 Road, bars N. and S. W.
- 68.63 Wire fence, bars N. and S. W.
- 68.73 Wire fence, bars N. W. and S. E. enter scattering oak timber,  
 bars N. and S.
- 74.00 School house, bars 4 chs N.
- 80.00 Set a sandstone, 18 x 8 x 8 ins., 12 ins. in the ground, for cor  
 at of secs. 16, 17, 20 and 21, marked with 4 notches on E. and  
 3 notches on S. edge; from which  
 An oak, 10 ins. diam., bars N. 83° E., 245 lks. dist., marked  
 T 24 S R 17 E S 16 B S.  
 An oak, 10 ins. diam., bars S. 29 1/4° E., 140 lks. dist., marked  
 T 24 S R 17 E S 21 B S., no other trees within limit, and raise  
 a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.  
 Land, mountainous.  
 Soil, gravelly and stony; 3rd and 4th rates.  
 Timber, scattering oak.  
 Mountainous land, 80.00 chs.

September, 17, 1904.

September 18. At 7:31<sup>m</sup> a. m. l. m. t., set off 31° 20' on  
 the lat. arc, 1955' N on the circ. arc; and determine  
 a meridian with the solar at the cor. of secs. 16, 17, 20 and 21.  
 Shiner & Co.



6 bars

N. 1/4 Sec. 17 and 20.

Over mountainous land, ascending through scattering oak.

- 3.60 Cross, bar 30 lbs. N.
- 11.10 Top of N. slope of ridge, 100 ft. above sec. cor. ascend.
- 13.90 Gulch, 10 lbs. wide, course N.W., ascend.
- 16.00 Ridge, bars N. and S.; descend.
- 17.30 Wire fence, bars N.W. and S.E.
- 19.20 Draw, 70 lbs. wide, course S.; ascend.
- 23.10 Ridge, bars N. and S.; descend.
- 27.30 Draw, 2 lbs. wide, course S. & E.; ascend.
- 28.86 Wire fence, bars N.W. and S.W.
- 30.50 Ridge, bars N. and S.; descend.
- 41.00 Set a sandstone, 18x10x6 ins; 1 1/2 ins. in the ground, for  
 R 1/4 sec. cor. marked 4 on N. face; from which  
 An oak, 7 ins. diam, bars N. 10° E, 53 lbs. circ, marked  
 4 S 17 B S; no other trees within limit, and raise a mound  
 of stone, 2 ft. base, 1 1/2 ft. high, N. of cor. Site impracticable.
- 48.20 Gulch, 20 lbs. wide, course S.W.
- 51.00 Enter draw, course S. & E.
- 58.00 Leave draw, ascend.
- 63.10 Ridge, bars N.W. and S.E.; descend.
- 73.10 Enter draw, course S.E.
- 76.75 Wire fence, bars N.W. and S.E.
- 79.10 Dry wash, 60 lbs. wide, course S.E.
- 80.00 Set a granite stone, 18x8x8 ins; 1 1/2 ins. in the ground, for  
 R cor of sec. 17, 18, 19 and 20, marked with 5 notches on E.  
 and 3 notches on S edge; from which  
 A walnut, 36 ins diam, bars N. 7 3/4° E, 290 lbs. circ, marked  
 S 24 S B 17 E S 17 B S; no other trees within limit, and  
 raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.  
 Ground, mountainous and level.  
 Soil, gravelly loam and stony; 2nd, 3rd and 4th rate.  
 Scattered scattering oak and a few walnuts in draw.  
 Mountainous land, 63.00 e h.

N. 1/4 Sec. 18 and 19

Over level land, through scattering oak.

- 5.00 Leave draw and ascend
- 24.10 Ridge, bars N. and S.; descend.
- 31.85 Dry wash, 20 lbs. wide, course S. & E.; ascend.
- 37.10 Ridge, bars N. and S.; descend.

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6 chains  
49.00

Set a granite stone, 18 x 12 x 6 ins., 12 ins in the ground, for  
1/4 sec. cor. marked 1/2 on N. face, from which  
an oak, 12 ins. diam., bears South, 6 lbs. dist., marked  
1/4 S 18 13 S.

An oak, 6 ins., diam., bears N. 67° W., 43 lbs. dist., marked  
1/2 S 18 13 S. and raise a mound of stone, 2 ft. base, 1 1/2 ft.  
high, N. of cor.

- 45.20 Gulch, 25 lbs. wide course S. ascend.
- 49.00 Ridge, bears N. and S.; ascend.
- 56.85 Dry wash, 25 lbs. wide, course S. E.; ascend.
- 60.80 Ridge, bears N. and S.; ascend. through heavy oak timber
- 69.00 Dry wash, 10 lbs. wide, course S. E.
- 73.20 Foot, dry wash, 50 lbs. wide, course S. S. E.

At this point:

Set a sandstone, 18 x 10 x 8 ins., 12 ins. in the ground, for  
cor. of sec. 13, 18 and 19 and 24, marked with 3 notches on  
S. and N. faces; from which

An oak, 7 ins., diam., bears N. 43 3/4° E., 64 lbs. dist., marked  
S 24 S 16 17 E S 18 13 S.

An oak, 8 ins., diam., bears S. 76 1/2° E., 41 lbs. dist., marked  
S 24 S 16 17 E S 19 13 S.

An oak, 12 ins. diam., bears S. 67° W., 62 lbs. dist., marked  
S 24 S 16 16 E S 24 13 S.

An oak, 12 ins. diam., bears N. 34 1/4° W., 63 lbs. dist., marked  
S 24 S 16 16 E S 13 13 S. and raise a mound of stone, 2 ft.  
base, 1 1/2 ft. high, N. of cor.

Land, mountainous and level.  
Soil, gravelly loam and stony; 2nd, 3rd and 4th water  
timber oak.

Mountainous or heavily timbered land, 74.78 chs.  
Set timber 18, 19 1/4.

Philip Couzen  
W. S. Deputy Surveyor.

Observations

Survey commenced September 20, 1904, and executed with a Young and Sons light mountain transit, No. 5607, with solar attachment. The horizontal limb is provided with two double verniers placed as possible to each other, reaching to single minutes of arc, which is also the least extent 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, June 10, 1904.

I examined 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 eve of secs. 13, 14, 23 and 24, on the auxiliary base line, as heretofore described, latitude  $31^{\circ}20' N.$ ; longitude  $110^{\circ}25' W.$ ; I set off  $31^{\circ}20' N.$ , on the lat. arc;  $10^{\circ}11'$  on the decl. arc; and, at  $3^h45^m$  p.m. l.m.t., determined with the solar a meridian and mark a point thereof, on a stone firmly set in the ground, 5 chs. N. of the eve.

At  $7^h39^m$  p.m. l.m.t., by my watch, which is correct, I observe Polaris at eastern 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.

September 20, 1904.

September 21: At 6:30 a.m. l.m.t., I lay off the azimuth of Polaris,  $1^{\circ}25'$  to the west, and mark the meridian thus determined, by cutting a small groove in the stone set September 18, on which the meridian falls 0.3 ins. east of the mark determined by the solar.

At  $7^h40^m$  a.m. l.m.t., I set off  $31^{\circ}20'$  on the lat. arc;  $0^{\circ}45'$  on the decl. arc; and mark a point in the meridian determined with the solar, by a cross on the stone already set, 5 chs. N. of my station; this mark falls 0.3 ins. west of the meridian established by the Polaris observation.

The solar apparatus, by p.m. and a.m. observations, defines positions for meridians, respectively about  $0'15''$  east and west of the meridian established by the

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Chains

Relais observations; therefore I conclude that the adjustments of the instrument are satisfactory.  
The magnetic bearing of the true meridian at 7<sup>h</sup> 30<sup>m</sup> a.m. is N. 12° 30' W.; the angle thus determined gives the mag. decl. 12° 30' E.

Slower 8 pm  
S. 0° 01' E., bet. sec. 23 and 24.  
Over mountainous land, descending.

- 13.50 Draw, 150 lbs. wide, course S. W.
- 20.00 Spur, extending S. W. descent.
- 33.43 Intersect international bay line bet. the United States and Mexico at a point from which bay monument No. 110 bears S 99° 52' E., 3.71 chs. dist. and mon. No. 111 bears N 89° 52' W 96.11 chs. dist.
- OK Set a sandstone, 19 x 11 x 8 ins., 12 ins. in the ground, for closing cor. of sec. 23 and 24, marked 66 on N., 24 on E., 23 on W., and M & X on S face; and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor. land, mountains.
- Soil, gravelly loam and stony; 2nd, 3rd and 4th rates.
- No timber.
- Mountainous land, 33.43 chs.

N. 0° 01' W., bet. sec. 13 and 14. from cor. to sec. 13, 14, 23 and 24.  
Descending over rolling land.

- 50. Enter draw, course W.
- 41.00 Draw draw.
- 27.00 Dry wash, 20 lbs. wide, course S. W.
- 39.00 Enter draw, course S. W.
- 40.00 Set a sandstone, 19 x 9 x 8 ins., 12 ins. in the ground, for OK 1/4 sec. cor. marked 7 on W. face; dig pits 18 x 18 x 12 ins. N. and S. of stone, 3 ft. dist. and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.
- 41.20 Brook, 10 lbs. wide, running water, course W.
- 44.00 Draw draw.
- 47.00 Wire fence, bears E. and W.
- 53.00 Brook, 20 lbs. wide, running water, course W.
- 72.00 Dry wash, 10 lbs. wide, course W.
- 80.00 Set a sandstone, 19 x 8 x 6 ins., 12 ins. in the ground, for OK cor. of sec. 11, 12, 13 and 14, marked with 1 notch on E. and 4 notches on S. edge; and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.

Chains

Land, rolling and level.  
Soil, gravelly loam; 2nd rate.  
No timber.

E. on a random line bet. sres. 12 and 13.

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

82.00 Intersect E. bay. of Str. at cor. of sres. 7, 12, 13 and 18, which is a stone, marked and returned, as described by the surveyor general.

Shaver's Run

W. on a true line bet. sres. 12 and 13.

Low mountainous land, ascending.

20.00 Bridge, bars N. and S.; across.

24.00 Road, bars N. W. and S. E.

411.11 Set a sandstone, 18 x 8 x 6 ins., 12 ins. in the ground, for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{2}$  on N. face; dig pits, 18 x 18 x 12 ins. E. and W. of stone, 3 ft. apart, and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

49.90 Dry wash, 15 lbs. wide, course S. W.; turned over gently rolling land.

62.63 Wire fence, bars N. W. and S. E.

811.02 Str. cor. of sres. 11, 12, 13 and 14.

Land, mountainous and gently rolling.

Soil, gravelly loam; 2nd rate.

No timber.

Mountainous land, 49.90 chs.

N. 0° 01' W. bet. sres. 11 and 12.

Low level land.

5.39 Wire fence, bars E. and W.

7.90 Wire fence, bars E. and W.

Intersect S. bay. of the San Rafael de la Guaja land grant at a point from which the 10 mile cor. of the grant bay. bears N. 3.34 chs. dist.

Set a quartz stone, 15 x 8 x 6 ins., 12 ins. in the ground, for closing cor. of sres. 11 and 12, marked C C on S, 12 on E, 11 on W, and S B D L G on N. face, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, S. of cor.

Land, level.

Soil, gravelly loam; 2nd rate.

No timber.

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Chains

September 21: At the cor. of sec. 14, 15, 22 and 23, on the auxiliary base line, I set off ~~237~~<sup>247</sup> on the arc. arc, and at 12<sup>h</sup> 4<sup>m</sup> d. m. t., observe the sun on the meridian; the resulting lat. is 31° 20' N.

Shaded by gum  
S. 0° 01' E., bet. sec. 22 and 23  
Over level land.

- X 16.50 Santa Cruz river, 50 lbs. wide, running water, course S. W.
- 32.10 Old adobe house, bars about 16 chs. W.
- 33.20 Intersect international bay line bet. the United States and Mexico at a point from which bay monument No. 111, bears N. 89° 52' W., 16.11 chs. dist. and ...  
Set a sandstone, 18 x 8 x 8 ins., 1 1/2 ins. in the ground, for closing cor. of sec. 22 and 23, marked C & B on N. 23 on E., 22 on W., and M & X on S. face; dig pits, 24 x 18 x 12 ins, crosswise on each line, E. and W., 3 ft. and N. of stone, 7 ft. dist. and raise a mound of earth, 4 ft. base, 2 ft. high, N. of cor.  
Gum, level.  
Soil rich and gravelly loam; 1st and 2nd water.  
No timber.

N. 0° 01' W., bet. sec. 14 and 15.  
Over level land, through arid woods

- 6.90 Dry wash, 15 lbs. wide, course S. E.
- 16.70 Brook, 6 lbs. wide, running water, course S. E.
- 19.30 Wind fence, bars E. and W.
- 22.00 Dry wash, 45 lbs. wide, course S. E.
- 36.00 House and sheep pen 3 chs. W.
- 88.00 Dry wash, 40 lbs. wide, course S. W.
- 41.00 Set a sandstone, 18 x 8 x 8 ins., 1 1/2 ins. in the ground, for 1/4 sec. cor. marked 4 on N. face; dig pits, 18 x 18 x 12 ins, N. and S. of stone, 3 ft. dist. and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, N. cor.
- 44.00 Hog pen, bars 4 chs. W.
- 51.50 Wind fence, bars W. and S. W.
- 52.65 Road, bars N. and S. W.
- 58.30 Wind fence, bars N. and S. W.; brush arid woods.
- 59.30 Gum, bars N. and S. W.
- 61.80 Wind fence, bars N. and S. W.
- 63.60 Lower valley; arid.

6 hrs. 80.00  
 OR  
 1/4  
 Set a sundstone, 18 x 10 x 8 ins, 12 ins. in the ground, for  
 ev. of sres. 10, 11, 14 and 15, marked with 2 notches on E.  
 and 4, notches on S. ridge, and raise a mound of stone,  
 2 ft. base, 1 1/2 ft. high, N. of ev.  
 Land, level and mountainous.  
 Soil, rich and gravelly loam; 1st and 2nd rate.  
 No timber.  
 Mountainous or level, covered with dense undergrowth,  
 74.72 chs.

E. 11 in a random line bet. sres. 11 and 14.  
 40.00 Set. trap. 1/4 sec. ev.  
 79.96 B. tract N. and S. line 10 hrs. N. of ev. of sres. 11, 12, 13  
 and 14.  
 Shows B run  
 N. 89° 50' W. on a true line bet. sres. 11 and 14.  
 Over level land.  
 1.00 Lower drain; unused.  
 29.00 Bridge, bars N. and S. W.  
 29.00 Earth Santa Cruz valley, bars N. and S.  
 39.98 Set a sundstone, 18 x 10 x 8 ins, 12 ins. in the ground, for  
 1/4 sec ev. marked 1/4 on N. face; dig pits, 18 x 18 x 12, ins,  
 E. and W. of stone, 3 ft. dist, and raise a mound of  
 earth, 3 1/2 ft. base, 1 1/2 ft. high, N. of ev.  
 41.50 Santa Cruz river, 30 hrs. wide, course S. W.  
 57.36 Strong of river, 70 hrs. wide, course S. S. E.  
 54.70 Dry wash, 40 hrs. wide, course S. W.  
 59.00 Dry wash, 60 hrs. wide, course S. W.  
 61.20 Ditch, 6 hrs. wide, course, S. S. W.  
 62.18 Wire fence, bars N. and S. W.  
 62.50 Road, bars N. and S. W.  
 65.70 Wire fence, bars N. W. and S. E.  
 67.00 Lower valley, bars N. and S. W.; unused.  
 79.96 8 hr ev. of sres. 10, 11, 14 and 15.  
 Land level and mountainous.  
 Soil, rich and gravelly loam; 1st and 2nd rate.  
 No timber.  
 Mountainous land 41.96 chs.

N. 0° 01' W. bet. sres 10 and 11.  
 Over mountainous land, as including.

BOOK 1842

6 hours  
7.811

Wire fence, bears E. and W.  
 Enter set S. bay. of the San Rafael de la Zariza land grant at a point from which the 11 mile cor. of the grant bay. bears W. 3.30 chs. dist.  
 Set a sandstone, 18x8x8 ins., 12 ins. in the ground, for closing cor. of sres. 10 and 11, marked 66 on S, 11 on E, 11 on W. and S R D L 3 on N. face; and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, S. of cor.  
 Land mountainous.  
 Soil, gravelly; 3rd water.  
 No timber.  
 Mountainous land, 7.80 chs.  
 September 21, 1904.

September 22: At 7<sup>h</sup> 30<sup>m</sup> a.m., l.m.t., set off 31° 20' N on the lat arc; 0° 22' N on the decl. arc; and determined a meridian with the solar at the cor. of sres. 15, 16, 21 and 22, on the auxiliary base line.

Shower & sun  
 S. 0° 02' E. bet. sres. 21 and 22.  
 Over level land.

2.43  
 7.80  
 23.24  
 32.73

Bound, bears W. and S. W.  
 Dry wash, 20 fms. wide, course S. E.  
 Wire fence, bears N. W. and S. E.  
 Enter set international bay line bet. the United States and Mexico at a point from which the 111 monument of the bay bears S. 89° 45' E. 63.90 chs. dist. and Mon. No. 112  
~~Brs. N 89° 45' W 69.21 chs. dist.~~  
 Set a granite stone, 18x10x8 ins., 12 ins. in the ground, for closing cor. of sres. 21 and 22, marked 66 on N. 22 on E, 21 on W. and N. E X on S. face; and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.  
 Land, level.  
 Soil, gravelly loam; 2nd water.  
 No timber

N. 0° 02' W. bet. sres. 15 and 16.  
 Over level land.

17.05  
 40.00  
 OK

Dry wash, 15 fms. wide, course S. E.  
 Set a granite stone, 18x10x8 ins., 12 ins. in the ground, for 1/4 sres. cor. marked 1/4 on W. face; and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.



6 hours  
46.80 Board, bars N. W. and S. E.  
47.50 Dry wash, 15 lbs. wide, course E.  
55.00 Draw, 59 lbs. wide, course S. E.  
61.84 Board, bars N. W. and S. E.  
64.46 Wire fence, bars N. W. and S. W.  
72.64 Wire fence, bars N. W. and S. W.  
80.00 Set a sandstone, 18 x 8 x 6 ins., 12 ins. in the ground, for  
ev. of sres. 9, 10, 15 and 16 marked with 3 notches on E.  
and 4 notches on S. edge; dig pits 18 x 18 x 12 ins., in  
each srd, 5 1/2 ft. dist., and raise a mound of earth  
4 ft. base, 2 ft. high, N. of ev.  
Land rolling and level.  
Soil, rich and gravelly loam; 1st and 2nd rates.  
No timber.

E. on a random line bet. sres. 10 and 15.  
40.00 Set trap 1/4 srd. ev.  
80.02 Intersect N. and S. line 10 lbs. S. of ev. of sres. 10, 11, 14  
and 15.

Planey Gunn  
S. 89° 55' W. on a true line bet. sres. 10 and 15.  
Over rolling land, descending.

30.00 Enter arbor, course S. E.  
33.50 Wire fence, bars N. W. and S. E.  
34.00 Grass, draw  
40.01 Set a sandstone, 18 x 8 x 8 ins., 12 ins. in the ground, for  
1/4 srd. ev. marked 1/4 on N. face; and raise a mound of  
stone, 2 ft. base, 1 1/2 ft. high, N. of ev.

73.68 Wire fence, bars N. and S.  
79.24 Wire fence, bars N. and S.  
80.02 Set ev. of sres. 9, 10, 15 and 16.  
Land, level and rolling.  
Soil, gravelly loam; 2nd and 3rd rates.  
No timber.

Sept. 22: At this ev. I set off 0° 16 1/2' on the arbor  
and at 12<sup>h</sup> 6<sup>m</sup> l. m. t. observe the sun on the meridian  
the resulting lat. is 31° 21' or within 1' of the  
proper lat.

N. 0° 02' W. bet. sres. 9 and 10.  
Over rolling land, descending.

BOOK 1842

Chain  
 1.90 Brick house, bars 1 ch. E.  
 2.40 Cabin Lammors house, bars 3 chs N.  
 2.70 S. side of adobe house.  
 3.00 N. side of adobe house.  
 4.25 Wire fence, bars E. and W.  
 7.36 Wire fence, bars E. and W.  
 7.90 Wire fence, bars E. and W.  
 J<sup>1/2</sup> Intersect S. bay. of the San Rafael de la Ganga land grant at a point from which the 12 mile cor. of the grant bay. bars W., 3.32 chs. dist.  
 Set a sandstone, 18x8x6 ins, 12 ins. in the ground, for closing cor. of sres. 9 and 10, marked 66 on S., 111 on E., 9 on W. and S R D E 9 on N. faces; dig pits, 24x18x12 ins. crossed on each line E. and W. 3 ft., and S. of stone, 9 ft. dist., and raise a mound of earth 11 ft. base, 2 ft. high, S. of cor.  
 Ground rolling.  
 Soil, gravelly loam; 2nd water.  
 No timber.

From cor. of sres. 16, 17, 20 and 21, on the auxiliary base line, 8 run  
 S. 0° 02' E., bet. sres. 20 and 21.  
 Over mountainous land, ascending through scattering oak.  
 5.30 Ridge, bars N. W. and S. E.; descend.  
 6.96 Wire fence, bars E. and W.  
 8.70 Gulch, 20 chs. wide, course S. E.; ascend.  
 12.00 Ridge, bars N. W. and S. E.; descend.  
 32.35 Intersect international bay. line bet. the United States and Mexico at a point from which the 112 monument of the bay. bars ~~N. 89° 45' W.~~ <sup>N. 89° 45' E.</sup> 111.78 chs. dist.  
 Set a sandstone, 18x11x8 ins, 12 ins. in the ground, for closing cor. of sres. 20 and 21, marked 66 on N., 21 on E., 20 on W. and M E X on S. faces; from which  
 An oak, 6 ins. diam., bars N. 89° E., 151 chs. dist., marked S 24 S R 17 E S 21 B S.; no other true instrument limit, and raised a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.  
 Land, mountainous.  
 Soil, gravelly; 2nd water.  
 Timber, scattering oak.  
 Mountainous land, 32.35 chs.

Chain	N. 0° 02' W. bet. sres. 16 and 17. from cor. to sec. 16, 17, 20 and 21.	
	Over rolling land.	
6.00	N. W. cor. of small oval.	
7.20	Dry wash, 10 lbs. wide, course N.W.	
10.00	Single Garvison's house, bars 5 chs. E.	
11.50	Road, bars N. W. and S. E.	
13.40	Garvison's graveyard, bars 5 chs. E.	
13.50	Wire fence, bars N. W. and S. E.	
17.00	Dry wash, 30 lbs. wide, course S. E.	
29.00	Wire fence, bars N.W. and S. W.	
33.00	Road, bars E. and W.	
40.00	Set a sandstone, 18x8x8 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face, from which an oak, 6 ins. diam., bars S. 84° W., 263 lbs. dist., marked $\frac{1}{4}$ S 17 B S; no other trees within limit, and raise a mound of stone, 2 ft. base, 12 ft. high, W. of cor. Rts impracticable.	
53.84	Road, bars E. and W.	
55.68	Wire fence, bars E. and W.	
80.00	Set a granite stone, 18x8x8 ins., 12 ins. in the ground, for cor. of sres. 8, 9, 16 and 17, marked with 4 notches on E. and S. sides; dig pits, 18x18x12 ins. in each sec, 5 1/2 ft. dist., and raise a mound of earth, 4 ft. base, 12 ft. high, W. of cor. Land, rolling. Soil, gravelly loam; and rats. Timber, a few oak.	
	E. on a random line bet. sres. 9 and 16.	
40.00	Set trap $\frac{1}{4}$ sec. cor.	
80.00	Intersect N. and S. line at cor. of sres. 9, 10, 15 and 16.	
	I have 8 runs	
	W. on a true line bet. 9 and 16.	
	Over rolling land.	
1.50	Montgomery house, bars 70 lbs. S.	
2.26	Wire fence, bars N. and S.	
3.40	Water tank, bars 15 lbs. N.	
4.40	House, bars 60 lbs. S.	
6.00	Barn, bars 1 ch. S.	
6.80	Blacksmith shop, on line.	
8.00	Acorn wall, bars N. and S.	
11.00	Wire fence, bars N. W. and S. E.	

BOOK 1842

6 chains  
40.00  
Set a granite stone, 18x10x8 ins., 12 ins. in the ground, for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on N. face, from which an oak, 6 ins. diam., bears N. 40  $\frac{3}{4}$  W., 51 lbs. dist., marked  $\frac{1}{4}$  S of B S.; no other tree within limit, and raise a mound of stone, 2 ft. base, 1  $\frac{1}{2}$  ft. high, N. of cor.

80.00  
3<sup>rd</sup> cor. of sres. 8, 9, 16 and 17.  
Land, rolling and level.  
Soil, gravelly loam; 2nd and 3rd rate.  
Timber, scattering oak.

N. 0° 02' W., bet. sres. 8 and 9.  
Over rolling land.

7.90  
Enter set S. bay. of the San Rafael de la Junja land grant at a point from which the 13 mile cor. of the grant bay. bears W. 3.32 chs. dist.

Set a granite stone, 18x12x6 ins., 12 ins. in the ground, for closing cor. of sres. 8 and 9, marked 6 on S., 9 on E., 8 on W. and S R B L 2 on N. face; and raise a mound of stone, 2 ft. base, 1  $\frac{1}{2}$  ft. high, S. of cor.

Land, rolling.  
Soil, gravelly loam; 2nd rate.  
Timber, scattering oak.

September 22, 1904.

September 23: At 7<sup>h</sup> 25<sup>m</sup> a. m., l. m. t., I set off 31° 20' on the lat. arc; 0° 12' S on the sol. arc; and determined a meridian with the solar at the cor. of sres. 17, 18, 19 and 20, on the auxiliary base line.

Stones B run.  
S. 0° 03' E, bet. sres. 19 and 20.  
Over level land.

3.50  
Level drawn; ascernd.

18.00  
Bridge, bears E. and W. ascernd.

32.00  
Enter set international bay. line bet. the United States and Mexico at a point from which the 112 monument of the bay. bears S. 89° 45' E, 90.84 chs. dist.

Set a granite stone, 18x10x8 ins., 12 ins. in the ground, for closing cor. of sres. 19 and 20, marked 66 on N.; 20 on E.; 19 on W. and 116 on S. face; from which an oak, 10 ins. diam., bears N. 15  $\frac{3}{4}$  E, 17 lbs. dist., marked S 24 S B 17 E S 20 B S. An oak, 14 ins. diam., bears N. 21  $\frac{1}{2}$  W, 39 lbs. dist., marked S 24 S B 17 E S 19 B S.; and raise a mound of stone, 2 ft. base, 1  $\frac{1}{2}$  ft. high N. of cor.

✓

Chain

Land, mountainous and level.  
Soil, gravelly; 3rd rate.  
Timber, scattering oak.  
Mountainous land, 28.50 chs.

N. 0° 03' W. bet. sres. 17 and 18.  
Dry level land, strong heavy oak timber.

3.00 Dry wash, 40 chs. wide, course S. E.

3.70 Wire fence; bars N. W. and S. E.

5.00 As usual.

21.25 Road, bars N. W. and S. E.

22.00 Bridge, bars N. W. and S. E.; as usual.

35.80 Dry wash, 40 chs. wide, course S. E.

37.60 Same wash, 40 chs. wide, course S. W.

41.00 Set a sandstone, 18x8x5 ins., 12 ins. in the ground, for

OK  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on N. face; from which  
An oak, 4 ins. diam., bars S. 24  $\frac{3}{4}$ ° E., 62 chs. dist., marked  
M  $\frac{1}{4}$  S 17 B S.

✓ An oak, 4 ins. diam., bars S. 60° W., 112 chs. dist., marked  
 $\frac{1}{4}$  S. 18 B S.; and raise a mound of stone, 2 ft. base, 12 ft.  
high, W. of cor.

43.00 Dry wash, 80 chs. wide, course S. E.

49.70 Dry wash, 10 chs. wide, course S. W.

50.00 Set a granite stone, 18x8x6 ins., 12 ins. in the ground, for

OK cor. of sres. 7, 8, 17 and 18, marked with 5 notches on E. and  
M and 4 notches on S. edge; from which

An oak, 12 ins. diam., bars N. 19  $\frac{1}{4}$ ° E., 120 chs. dist., marked  
S 24 S. B 17 E S 13 S.

An oak, 12 ins. diam., bars S. 83  $\frac{1}{2}$ ° E., 240 chs. dist., marked  
S 24 S B 17 E S 17 B S.

An oak, 4 ins. diam., bars S. 46  $\frac{1}{2}$ ° W., 51 chs. dist., marked  
S 24 S B 17 E S 18 B S.

An oak, 4 ins. diam., bars N. 81° W., 290 chs. dist., marked  
S 24 S B 17 E S 7 B S.

Land, mountainous and level.

Soil, gravelly; 2nd and 3rd rate.

Timber oak.

Mountainous or heavily timbered land, 80.00 chs.

E. on a random line bet. sres. 8 and 17.

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

BOOK 1842

Chains  
80.00 Enterset N. and S. line at ev. of s res. 8, 9, 16 and 17.  
Shaper & run  
W. on a true line bet. s res. 8 and 17.  
Over gently rolling land, through oak timber.  
40.00 Set a granite stone, 18 x 12 x 8 ins., 12 ins. in the ground,  
for 1/4 sec. ev. marked 1/4 on N. face; from which  
An oak, 6 ins. diam., bears S. 13° W., 45° lbs. dist., marked  
1/4 S 17 B.S.  
An oak, 6 ins. diam., bears N. 61° W., 30 lbs. dist., marked  
1/4 S. 8 B.S. enter heavy oak timber, bears N.E. and S.W.  
24.11 Wire fence, bears N.W. and S.E.  
66.83 Road, bears N.W. and S.E.  
80.00 The ev. of s res. 7, 8, 17 and 18.  
Level, gently rolling and level.  
Soil, gravelly loam; 2nd rate.  
Timber, oak.  
Barren timbered land, 40.00 lbs.  
September 23: At this ev. I set off 007/10 on the  
dial arc; and at 12<sup>h</sup> 3<sup>m</sup> l. m. t., observed the sun on the  
meridian; the resulting lat. is 31° 21' 7" ✓

W. on a random line bet. s res. 7 and 18.  
40.00 Set timber 1/4 sec. ev.  
79.70 Enterset W. bay. of sp. 3 lbs. ~~S.~~ of ev. of s res. 7, 12, 13  
and 18, as hereof or described.  
Shaper & run  
S. 89° 59' E., on a true line bet. s res. 7 and 18. descending  
Over rolling land, through heavy oak timber.  
16.11 Dry wash, 60 lbs. wide, course S.E.  
35.11 Dry wash, 20 lbs. wide, course S.S.W.  
99.70 Set a granite stone, 18 x 10 x 8 ins., 12 ins. in the ground,  
for 1/4 sec. ev. marked 1/4 on N. face; from which  
An oak, 14 ins. diam., bears N. 16 1/2° E., 261 lbs. dist., marked  
1/4 S 4 B.S.  
An oak, 8 ins. diam., bears S. 53° W., 75 lbs. dist., marked  
1/4 S 18 B.S.; and raise a mound of stone, 2 ft. base,  
1/2 ft. high, W. of ev.  
44.11 Road, bears N.W. and S.E.  
47.70 Runlew, 50 lbs. wide, course S.E.  
77.80 An oak, 8 ins. diam., on line, marked with 2 notches on  
E. and W. sides.

chains  
79.70

S for ev. of sres. 7, 8, 17 and 18.  
Land, rolling and level.  
Soil, gravelly loam; 2nd and 3rd rates.  
Timber, oak.  
Varily timbered land, 79.70 chs.

- 8.60 N. 0° 08' W., bet. sres. 7 and 8.  
Over rolling land, through heavy oak timber.  
Bound, bars N. W. and S. E.
- 9.90 Wire fence, bars N. W. and S. E.
- 40.00 Set a sandstone, 18 x 12 x 8 ins., 1 1/2 ins. in the ground,  
for 1/4 sec. ev. marked 1/4 on W. face; from which  
An oak, 10 ins. diam., bars S. 74° E., 48 lbs. dist., marked  
1/4 S 8 1/2 B S.
- An oak, 6 ins. diam., bars S. 9 1/2° W., 118 lbs. dist., marked  
1/4 S 7 B S.
- 42.30 Wire fence, bars N 80° W. and S. 80° E.
- 50.00 Inter level land.
- 67.05 Wire fence, bars N. and S. W.
- 67.50 Dry wash; 20 lbs. rods, course S. W.
- 69.75 Bound, bars N. and S. W.
- 75.00 Wire fence, bars N. and S. W.
- 78.00 Level level land and use end.
- 80.00 Set a granite stone, 18 x 8 x 8 ins., 1 1/2 ins. in the ground, for  
ev. of sres. 5, 6, 7 and 8, marked with 5 note here on E. and  
S. sides; from which  
An oak, 10 ins. diam., bars N. 16° E., 172 lbs. dist., marked  
S 24 S R 17 E S 5 B S.
- An oak, 4 ins. diam., bars S. 67 1/4° E., 92 lbs. dist., marked  
S 24 S R 17 E S 8 B S.
- An oak, 16 ins. diam., bars S. 17° W. 97 lbs. dist., marked  
S 24 S R 17 E S 7 B S.
- An oak, 6 ins. diam., bars N. 4 1/2° W., 102 lbs. dist., marked  
S 24 S R 17 E S 6 B S; and raised a mound of stone, 2 ft.  
base, 1 1/2 ft. high, W. of ev.  
Land, rolling and level.  
Soil, gravelly loam; 2nd and 3rd rates.  
Timber, oak.  
Varily timbered land, 80.00 chs.

September 23, 1904

BOOK 1842

Chains

September 24: At 7<sup>h</sup> 31<sup>m</sup> a.m. l.m.t., I set off 31°22' N on the lat. arc; 9°25' S on the decl. arc, and determine a meridian with the solar at the cr. of sres. 5, 6, 7 and 8.

Shines & runs E. on a true line bet. sres. 5 and 8. Over rolling land, descending, & through scattering oak timber.

5.50

Enter level land.

5.97

Wire fixed, bars N.W. and S. W.

7.32

Bound, bars N.W. and S. W.

9.20

Wire fixed, bars N.W. and S. W.

27.58

Bound, bars N. W. and S. E.

40.00

Set a sandstone, 18x10x6 ins., 12 ins. in the ground, for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on N. face; from which an oak, 10 ins. diam., bears S. 74 $\frac{3}{4}$ ° E, 116 lbs. dist., marked  $\frac{1}{4}$  S 8 $\frac{1}{2}$  S.

An oak, 20 ins. diam., bears N. 49° W, 426 lbs. dist., marked  $\frac{1}{4}$  S 5 $\frac{1}{2}$  S; and raise a mound of stone, 2 ft. base,  $\frac{1}{2}$  ft. high, N. of cor.

51.52

Wire fixed, bars N. and S.

61

Intersect W. bdy. of the San Rafael de la Zanja land grant at a point from which the 14 mile cor. of the grant bdy. bears 2. 80 lbs. N.

Set a granite stone, 18x8x7 ins., 12 ins. in the ground, for closing cor. of sres. 5 and 8, marked with C C on N; S on N. 8 on S. and S R S L 3 on E. face; from which

An oak, 8 ins. diam., bears N. 89 $\frac{1}{2}$ ° W, 101 lbs. dist., marked S 24 S R 17 E S 5 $\frac{1}{2}$  S; no other tree within limit, and raise a mound of stone, 2 ft. base,  $\frac{1}{2}$  ft. high, N. of cor.

Land, level and gently rolling. Soil, gravelly loam and stony; 2nd, 3rd and 4th rate. Timber, scattering oak.

N. 89°59' W, on a random line bet. sres. 6 and 7.

70.00

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

79.67

Intersect N. bdy. of the Spr. 7 lbs. S. of cor. of sres. 1, 6, 7 and 12, as hereof described.

Shines & runs S 89°58' E, on a true line bet. sres. 6 and 7. Over rolling land, through scattering oak timber.

21.00

Bound, bars N. W. and S. E.

39.67

Set a sandstone, 18x12x8 ins., 12 ins. in the ground, for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on N. face; from which



Chain  
97

An oak, 6 ins. diam, bears N.  $39\frac{3}{4}^{\circ}$  E, 195 lbs. dist, marked  $\frac{1}{4}$  S 6 B S.

An oak, 6 ins. diam, bears S.  $39\frac{3}{4}^{\circ}$  W, 117 lbs. dist, marked  $\frac{1}{4}$  S 4 B S; and raise a mound of stone, 2 ft. base,  $\frac{1}{2}$  ft. high, N. of ev.

52.70 Dry wash, 10 lbs. conc. across S. E.

59.40 Wood fence bears N. W. and S. E.

61.00 Enter reservoir.

63.00 Grand moraine.

69.30 Road, bears N. W. and S. E.

75.80 Road, bears N. W. and S. E.

79.67 Str ev. of sres. 5, 6, 7 and 8.

Land, level and rolling.  
Soil, gravelly loam; 2nd and 3rd rates.  
Timber, scattering oak.

N. 0° 03' W. on a random line bet. sres. 5 and 6.

40.00 Set timber  $\frac{1}{4}$  sec. ev.

80.04 Enter wet N. bay. of Str. 14 lbs. N. of ev. of sres. 5, 6, 31 and 32, as herein before described.

Placed 3 rods

S. 0° 03' W. on a true line bet. sres. 5 and 6.

Over gently rolling land, through scattering oak timber.

40.114 Set a granite stone, 15 x 10 x 8 ins.  $\frac{1}{2}$  ins. in the ground, for  $\frac{1}{4}$  sec. ev. marked  $\frac{1}{4}$  on N. face, from which

An oak, 12 ins. diam, bears N.  $24\frac{3}{4}^{\circ}$  E, 77 lbs. dist, marked  $\frac{1}{4}$  S 5 B S.

An oak, 6 ins. diam, bears N.  $87\frac{1}{2}^{\circ}$  W, 101 lbs. dist, marked  $\frac{1}{4}$  S 6 B S. and raise a mound of stone, 2 ft. base,  $\frac{1}{2}$  ft. high, N. of ev.

50.00 Road, bears N. W. and S. E.

52.00 Wood fence, bears N. W. and S. E.

80.04 Str ev. of sres. 5, 6, 7 and 8.

Land, gently rolling and level.  
Soil, gravelly loam; 2nd and 3rd rates.  
Timber, scattering oak.

September 24, 1904.

General Description.

This township is rolling and level in the east, and mountainous in the west. The soil is gravelly loam and stony, 2nd, 3rd and 4th rates. The whole Str. is covered

with an abundant crop of rich and nutritious grasses. Dark timber abounds in the western part of the Pl. The Santa Cruz river runs through the western part of the Pl. There are several settlers in the Pl. who have made valuable improvements. Colin Cameron's ranch, known as the S. B. Ranch, is situated partly in secs. 9, 10, 15 and 16. Settlement, Postoffice and U. S. customs house known as Luchil, is in the N. W.  $\frac{1}{4}$  of sec. 21. The desert land claims of Simon Cameron, Salvador Martintha and Chas. S. Montgomery, are situated in secs. 13, 14 and 23 of this Pl.

Philip Couzess

U. S. Deputy Surveyor.

For authority red ink corrections see deputy's letter of Jan'y. 26, 1905.

LIST OF NAMES.

BOOK 1842

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 subdivision lines and auxiliary base line T. 24 S. R. 17 E showing the respective capacities in which they acted:

H. W. Huggins ✓, Chainman.

Mariano Adorame ✓, Chainman.

Juquin Bonillas ✓, Moundman.

Manuel Salazar ✓, Moundman.

Chas. M. Pogue ✓, Axman.

Tom Jones ✓, Axman.

Arthur Pogue ✓, 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 subdivision lines and auxiliary base line T. 24 S. R. 17 E

of the Gila of Salt River meridian, Territory of Arizona, which are represented

in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor

General for Arizona

H. W. Huggins ✓, Chainman.

Mariano Adorame ✓, Chainman.

Juquin Bonillas ✓, Moundman.

Manuel Salazar ✓, Moundman.

Chas M Pogue ✓, Axman.

Tom Jones ✓, Axman.

Arthur Pogue ✓, Flagman.

Subscribed and sworn to before me this 17<sup>th</sup> day of December, 1894



H. G. Power

NOTARY PUBLIC,  
YUMA COUNTY, ARIZONA.  
MY COMMISSION EXPIRES

April 27<sup>th</sup> 1908

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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. Luggalls United States Surveyor General for Arizona, bearing date of the 15<sup>th</sup> day of March, 1894, 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 subdivision lines and auxiliary base line of T. 24 S. R. 17 E.

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

Philip Contzen  
United States Deputy Surveyor.

Subscribed by said Philip Contzen, and sworn to before me }  
this 17<sup>th</sup> day of December, 1894

Clinton D. Hoover,  
Clerk U.S. District Court,  
First District of Arizona.



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Ar. March 31<sup>st</sup> 1905

The foregoing field notes of the survey of the subdivisional lines and auxiliary base line of tract T. 24 S. R. 17 E. of the Gila and Salt River Base and Meridian, in the Territory of Arizona.

executed by Philip Contzen, U.S. Deputy Surveyor under his contract No. 115, dated March 15, 1904, 1894, 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. Luggalls  
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.