

Exterior of the San Rafael de la Zanja Land Grant
 chains etc.

dist; marked S R D L 3 14 1/2 M B D.
 and raise a mound of stone 3 ft base, a
 ft high, U. of cor.

Dry creek 40 lbs wide course S. Easterly
 and broad valley and ascend

+ 41.50 Top of bank N. Westerly and S. Easterly,
 descend.

44.00 Foot bank N. Westerly and S. Easterly;
 ascend.

48.00 Top of ridge, bank N. Westerly and
 S. Easterly,

50.25 Descend.

65.00 Foot bank N. Easterly and S. Westerly;
 begin ascent along broken slope of ridge.

77.00 Top of slope, extending S. Easterly;
 descend.

8.000 Set a sandstone 24 x 14 x 12 ins, 14 ins in
 the ground, for the 15 mile cor. marked
 S R D L 3 on U. S. on W. end 15 mi

Exterior of the San Rafael de la Zanja Land Grant
Chain

etc.

dist; marked S R D E 3 14 1/2 M B S.

and raised a mound of stone 3 ft base, a
ft high, V. of cor.

Dry creek 40 lbs incl course S. Easterly
and broad valley and ascend.

41.50 Top of bank N. Westerly and S. Easterly;
descend.

44.00 Foot of bank N. Westerly and S. Easterly;
ascend.

48.00 Top of ridge, bank N. Westerly and
S. Easterly,

50.25 Descend.

65.00 Foot, bank N. Easterly and S. Westerly;
begin ascent along broken slope of ridge.

77.00 Top of slope, extending S. Easterly;
descend.

8.000 Set a sandstone 24 x 14 x 12 ins, 14 ins in
the ground, for the 15 mile cor. marked
S R D E 3 on V. S. W. on N. and 15 mi

42
 Extremities of the San Rafael de la Yungá Land Grant
 Chain

on N. side, from which
 An oak, 20 ins diam, bears N 78° E, 34
 lbs dist, marked S B D L g 15 W B S.

An oak, 10 ins diam, bears S 92° E, 100
 lbs dist, marked S B D L g 15 W B S

An oak, 16 ins diam, bears S 29½° W, 171
 lbs dist, marked S B D L g 15 W B S.

An oak, 6 ins diam, bears S. 75° W, 90
 lbs dist, marked S B D L g 15 W B S.

X dig pits 36 x 36 x 12 ins, N. and S. of
 stone, 4 ft dist, and raise a mound
 of earth 5 ft base, 2½ ft ^{high} base, E. of wt.
 Land level and rolling.

Soil, rich and sandy loam, 1st and
 2nd rate.

Quilbo, oak.

North on Six Fourth mile
 Over mountainous land, descending.

Particulars of the San Rafael de la Ganga Land Grant
Chain

- through oak timber.
- 2.70 Post, draw, 1.00 ch wide, course S. Easterly
ascend.
- 16.80 Top of ridge, bear Easterly and Westerly,
descend.
- 20.30 Post, 50 ft below top of ridge, course
N. Westerly and S. Easterly.
- 24.00 Ascend.
- 29.40 Spar, 60 ft above foot of ascent, extending
S. Easterly; descend.
- 34.50 Center of draw 60 ft below top of spar
80 lbs wide, course S. Easterly; ascend.
- 40.00 Set a sandstone 32 x 8 x 8 ins, 24 ins in
the ground for the 15 $\frac{1}{2}$ mile eve marked
S R D G on E, S E on W and 15 $\frac{1}{2}$ M
on N face, from which
-)) An oak 14 ins diam, bear N. 11 $\frac{3}{4}$ ° E, 53
the dist marked S R D G 15 $\frac{1}{2}$ M B S.
An oak, 12 ins diam, bear N 78 $\frac{1}{2}$ ° E 64

Extension of the San Rafael de la Zanja Land Grant
Chain

- The dist. marked S R D $\frac{1}{2}$ R 15 $\frac{1}{2}$ M B S,
and raise a mound of stone 3 ft base,
2 ft high, & of cor.
- 53.00 Top of ridge, bears N. Westerly and S.
Easterly
- 54.06 S. W. S. V. monument of the grant,
as heretofore described.
- 57.00 Dry creek, so the wide course Easterly
and enter draw, course Easterly.
- 58.00 Road, bears Easterly and Westerly.
- 60.00 Run draw and ascend.
- 71.25 Top of ridge, bears Easterly and Westerly,
descend.
- 74.00 Foot and enter valley, bears Easterly
and Westerly.
- 8.00 Set a sandstone 28 x 12 x 8 ins, 21 ins in
the ground for the 70 mile cor, marked
S R D $\frac{1}{2}$ R on E, 8 $\frac{1}{2}$ mi N, and 16 M
on N. Juncos, from which

Extensive of the San Rafael de la Granja Land Grant.
Chama

An oak, 18 in diam, bears N. 19° E, 93 lbs
dist, marked S R D Q 16 W B B.

An oak, 18 in diam bears S. $30\frac{1}{2}^{\circ}$ E, 57 lbs
the dist marked S R D Q 16 W B B.

An oak, 12 in diam bears S. 58° W, 14 lbs
the dist, marked S R D Q 16 W B B.

An oak, 10 in diam bears N. 16° W, 60 lbs
dist, marked S R D Q 16 W B B. and
raise a mound of stone 3 ft base, 2 ft
high, E. of w.

Land mountainous and level.

Soil, sandy loam and gravelly; 1st,
2nd and 3rd water.

Timber, oak.

Mountainous land, 65.10 chs.

February 14, 1903.

February 15: At 7^h 30^m a.m. l.m.

No allowance for Refraction
I set off $31^{\circ} 24' N.$ on the hat arc. $12^{\circ} 36' S.$

Extract of the Survey of the San Rafael de la Zanja Canal Grant
Chains

on the drel are, and determine a true
meridian with the solar at the 16
mile east of the grant.

Thence I run

North ~~on~~ Seventeen th Mile.

Over level land: through oak timber.

4.70 Dry creek, 50 lbs wide, course S. Easterly,
cross valley and ascend.

5.25 Ascend vertical, 40 ft.

29.00 Top of N. slope of ridge; descend.

35.25 Gulch, 100 ft below ^{top of} slope of ridge,
10 lbs wide, course S. Easterly, descend.

38.70 Top of ridge, 50 ft above gulch, course
N. Westerly and S. Easterly; descend.

4.00 Set a sundstone 28 x 14 x 10 ins, 21 ins in
the ground, for the 16 $\frac{1}{2}$ mile east, marked
S R N G Z w G S on W and 16 $\frac{1}{2}$ M
east N. from from which
I run north, 12 mile down, course N. 22 $\frac{1}{2}$ E

Exteriors of the San Rafael de la Zanja Land Grant
Chains

- 31 lbs dist, marked S R D h g. 16 1/2 W. B. S.
An oak, 7 in diam bears West 26 lbs
dist, marked S R D h g. 16 1/2 W. B. S.
and raised mound of stone 8 ft base,
2 ft high East of cen.
- 45.00 Dry wash, 10 fms wide, course S. Easterly,
and into draw, course S. Easterly.
- 48.00 Leave draw and ascend.
- 51.30 Top of divide 154 ft above draw, bears
N. Westerly and S. Easterly; descend.
- 57.00 ~~Road~~ S.E.
- 61.80 Gulch, 80 ft below top of divide, 10 lbs
wide course S. Easterly; ascend.
- 64.00 Top of spur, 80 ft above gulch, extending
Easterly; descend.
- 68.05 Dry wash, 100 ft below top of spur, 10
lbs wide, course Easterly; ascend.
- 71.00 Top of ridge, bears N. Easterly and S.
Westerly; descend.
- 74.00 Foot, and enter valley bears Easterly and

Extrinsic of the San Rafael de la Zuniel Land Grant
 Chama

Westerly.

7600 Dry wash, 20 lbs wide, course S. Easterly.

8000 Set a sandstone 25 x 10 x 8 ins, 21 ins in
 the ground, for the 17 mile ev, marked
 S R D L 9 on E, S L on W and
 17 on W face, from which

An rock, 28 ins diam, bears S. 82° E 120
 the dist, marked S R D L 9 10 m B S.

An rock, 12 ins diam, bears S 82° W,

168 the dist, marked S R D L 9 17 m B S.

An rock, 8 ins diam, bears N. 20° W.

15 the dist, ^{marked} S R D L 9 17 m. B S. m

Other tree within limit. Dig pit 36 x 36 x 12

N. and S of stone, 4 ft dist, and

raise a mound of earth 5 ft base,

2 1/2 ft high, east of ev.

Land, mountainous and level.

Soil, sandy loam and gravelly; 2nd and
 3rd rate.

Extensive of the San Rafael de la Zanja Land Grant
Chimé

Timber, oak.

Mountainous land, 66.30 cks.

North on Eighteenth Mile.

Down level land; through oak timber.

1.11 Level valley, and ascend.

15.00 Dip, 100 ft above valley; bears
Easterly and Westerly.

16.10 Descend.

20.60 Stop, 60 ft below top of descent, enter draw
again S. Easterly.

23.00 Leave draw and ascend.

28.00 Dip, broad N. Westerly and S. Easterly;
descend.

31.00 Stop, and ascend.

31.00 Dip, and descend.

31.70 Stop, enter draw, again S. Easterly.

34.00 Leave draw, and ascend.

40.00 Set a sandstone, 32 x 10 x 8 in, 24 in in the

Exterior of the San Rafael de la Zanja Land Grant
Chains

ground, for the $17\frac{1}{2}$ mile or, marked
S R D L G on E, P L on N, and $17\frac{1}{2}$ M
on W. from which

An oak, 12 ins diam, bears N. 18° E,

246 lbs dist, marked S R D L G $17\frac{1}{2}$ M B B.

An oak, 24 ins diam, bears N. $5\frac{1}{2}^{\circ}$ W.

120 lbs dist, marked S R D L G $17\frac{1}{2}$ M B B.

and raise a mound of stones 3 ft base,
2 ft high, E. of or.

44.50 Top of divide, 100 ft above stream,
bears N. Westerly and S. Easterly; descend.

50.00 Foot and enter valley, bears Easterly
and Westerly.

55.10 Dry wash, 15 lbs wide, course Easterly.

59.70 Leave valley and ascend.

60.00 Top of spine, extending S. Easterly;
descend.

67.00 Draw, 2.00 ch wide, course S. Easterly; ascend

72.00 Top, bears Easterly and Westerly; descend

Extremes of the San Rafael de la Zanja Land Grant
Chain

76.50 Post 60 ft below top of descent, into chain,
course E. N. E. 80°.

79.40 Level drawn and used.

8000 Set a granite stone 32x12x18 in, 24 in in
the ground for the 18 mile cor. marked
S R W & on E, S on W and 18 W on
N. face. From which

An oak, 24 in diam bears N. 47° E 307
the dist. marked S R D & 18 M B S.

An oak, 18 in diam, bears S. 15° E, 349
the dist. marked S R D & 18 M B S.

An oak, 8 in diam, bears S. 50½° W, 366
the dist. marked S R D & 18 M B S.

An oak, 10 in diam, bears N. 30¼° W, 291
the dist. marked S R D & 18 M B S.

and raise a mound of stone 3 ft diam,
2 ft high, E. of cor.

Land unimproved and level.

Soil, sandy loam and gravelly; and und

Extension of the San Rafael de la Guajal Land Grant
Chain

3rd rate.

Prime oak.

Mountainous land, 58.10 chs.

North on Minstunth Mill.

Very mountainous land ascending
through oak timber.

- 1.57 Top of spur, extending Easterly; descend.
- 4.47 Foot, runs N. Westerly and S. Easterly;
ascend.
- 6.07 Top of spur, extending Easterly; descend
- 9.07 Foot, and enter valley; cross Easterly
and Westerly.
- 16.07 Cross oak timber, runs Easterly and
Westerly.
- 16.22 Road to Patagonia, runs N. Westerly
and S. Easterly.
- 18.57 Upper valley, runs Easterly and Westerly,
begin ascent along S. slope spur.

Extension of the San Rafael de la Guajá Land Grant
Chain

23.07

Set a granite stone, $32 \times 12 \times 12$ ins, 24 ins
in the ground, for angle cor No. 4 and
N. W. cor of the grant, marked a No. 4 on top,
W W C O R S R D L G on S E, and
O C on W. W. face; and raise a mound
of stone 3 ft base, 2 ft high, S. E. of cor.
Pits impracticable.

From this cor, high peak Sierra de Vallentes
Mexican bear $S 35^{\circ} 50' E$

Angled peak bear $S 82^{\circ} 2' E$

This cor stands on E slope spur, 40 ft
above draw.

Plum S run

East

Over mountainous land, descending.

1.63

Draw, 1.00 ch wide, course - Southw. by
around.

4.43

Top of spur, extending S. Easterly;
descend.

Extremities of the San Rafael de la Zuzia Land Grant
Chamis

- 7.53 Port, bears N. Westerly and S. Easterly; ascend.
- 11.18 Top of spur, extending S. Westerly; descend.
- 16.93 Set a granite stone $8 \times 12 \times 10$ in, 21 ins in the ground, for the $18\frac{1}{2}$ mile you marked S B D L Z on S, P L on N. and $18\frac{1}{2}$ M up E face, and raise a mound of stone 3 ft base, 2 ft high S. of cor.
- 19.43 Port, and enter valley, bears N. Easterly and S. Westerly; thence in over nearly level land sloping E.
- 41.93 Old road, bears N. Westerly and S. Easterly.
- 43.93 Arroyo, 15 ft deep, 30 ft wide, across E. S. Easterly.
- 56.93 Completion of 19th mile.
Set a sandstone $32 \times 10 \times 8$ in, 24 ins in

Exterior of the San Rafael de la Zanja Land Grant
Chama

the ground for the 19 mile cor, marked
S R D E on S B L on N. and 19 M on
E. faye, dig pits 36x36x12 ins, E. and W.
of stone 4 ft dist and raise a mound of
earth 5 ft base, 2 1/2 ft high, S. of cor.
Land, mountainous, wet and rolling.
Soil, sandy loam and gravelly; 2nd
and 3rd rate.

Timber, oak.

Mountainous land, 32.80 chs.

East on Twenty Mile.

By valley; descending gradually.

14 00 Large rapid patch of mesquit, Cross
S 5.00 chs dist.

25.45 Soil, bare, N. Westerly and S. Easterly.

26.40 Arroyo 20 lbs wide exposed S. Easterly.

34.00 Lower valley and begin gradual ascent.

4 000 Set a sandstone 24x12x10 ins, 24 ins in

Exteriors of the San Rafael de la Zanja Canal Grant
Channel

- the ground for the 19 $\frac{1}{2}$ mile cor,
marked S R D L G on S. P L on W
and 19 $\frac{1}{2}$ M on E. faces dig pits
36x36x12 ins, E. and W. of stone 4 ft
dist and raise a mound of earth, 5 ft
base, eight high, S of cor.
- 42.00 Top of small bars N. Westerly and S.
Easterly.
- 46.30 Descend.
- 47.90 Foot, enter draw, course S. Easterly.
- 49.70 Leave draw, ascend.
- 71.30 Top, bars N. Westerly and S. Easterly,
turner over gently rolling land.
- 8.000 Set a sandstone 24x12x8 ins, 18 ins
in the ground for the 20 mile cor,
marked S R D L G on S. P L on W.
and 20 M on E. faces dig pits 36x36x12
ins, E. and W. of stone 4 ft dist and
raise a mound of earth 5 ft base,

Estimate of the San Rafael de la Guajal Land Grant
Chumie

2½ ft high, S. of w.
Land rolling and level,
Soil sandy loam and gravelly, 2nd
and 3rd rate.
No timber.

East on Twenty-First Mile.

Over gently rolling land.

10.08 Basin descent.

23.15 Dry wash, 15 ft wide, course S. Easterly,
ascend.

32.08 Top of small bar N. Westerly and S.
Easterly, descend.

38.58 Draw 1.00 ft wide, course Southerly,
ascend.

40.00 Set a sandstone 32x10x7 ins, 24 ins in
the ground for the 20½ mile w. marked
S. N. E. on S, S. E. on N. and 20½
on E. from dig pits 36x36x12 ins, E

Extension of the San Rafael de la Gaviota Land Grant
Chain

and W. of stone, 4 ft dist, and raise a mound of earth 5 ft base, $2\frac{1}{2}$ ft high, S. of col.

42.00 Top of small bars N. Easterly and S. Westerly.

53.00 Begin gradual descent.

64.00 Port and enter Santa Cruz valley, bars Northerly and Southerly.

64.88 Dry wash to the wide course Southerly

67.58 Road to Baboquiviri bars N. W. Westerly and S. S. Easterly.

72.08 To beginning col and to S. E. monument of the grant, as heretofore described.

Land rolling and level.

Soil rich loam and gravelly, 1st, 2nd and 3rd rate.

No timber

February 15, 1903.

Continuation of the San Rafael de la General Land Grant
Chain

General Description.

This grant is situated in Sps 23, and 24, S. Rs. 17 and 18 E. of the Gila and Salt River base and meridian, in Santa Cruz county, Territory of Arizona. The Santa Cruz river and tributaries run through the center of the grant. There is some good agricultural land along the river which can be cultivated. Through the center of the grant the land is level and rolling, gradually rising on E. and W. sides of the Santa Cruz valley to high spurs and ridges. There are some cottonwoods along the river and considerable oak timber on E. and W. sides of valley. The Shry family are the only settlers on this grant located within 2 miles from the S. city, and about 2 miles from the E. city.

Extracts of the San Rafael de la Juncia Land Grant
Chains

Philip Cortzen
W. S. Deputy Surveyor.

A list of the names of the individuals employed
by *Philip Couzess*

U S. Deputy Surveyor, to assist in running, measuring
and marking the lines and corners described in the forego-
ing Field Notes of the survey of the *Exteriors*

*of the San Rafael de la Zanja grant and
connecting lines, situated
in Tps. 23-24 S. R's. 17-18 E.*

of the Gila and Salt River Base and Meridian, in the Ter-
ritory of Arizona, showing the respective capacities in which
they acted.

John M. Trayer . . . Chainman.

G. G. Hawley . . . Chainman.

. . . Chainman.

. . . Chainman

. . . Axeman.

Manuel Rodriguez . . . Axeman.

Esteban Fimbres . . . Flagman.



82

Final Oath of Assistants.

We hereby certify that we assisted... *Philip*
Contzen..... U. S. Deputy Surveyor, in
 surveying all those parts or portions of the *Extremos*
of the San Rafael de la Zanja
grant and connecting lines
situated in Tps. 23-24 &
Rs. 17-18 E

of the Gila and Salt River Base and Meridian, in the Territory of Arizona, as 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.

John M. Hayes..... Chainman.
J. A. Hawley..... Chainman.
 Chainman.
 Chainman.
 Axeman.

Mmanuel Rodriguez..... Axeman.
Esteban Finches..... Flagman.

Sworn and subscribed before me, this *12th*.....
 day of *March*..... 1903

Homer Cantee
 Notary Public.



Final Oath of U. S. Deputy Surveyor.

BOOK 1761 83

I, *Philip Coutzen*.....

U. S. Deputy Surveyor, do solemnly swear that in pursuance of a contract received from... *Hugh H. Price*

United States Surveyor General for Arizona, bearing date of the... *29th*... day of... *November*... 1903,

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.....

Exteriors of the San Rafael de la Gansa grant and connecting lines situated in Tps 23-24 S. R. 17-18 E

.....
.....
of the Gila and Salt River Base and Meridian, in the Territory of Arizona, as 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 surveys have been established and perpetuated in strict accordance with the Manual of printed instructions, the special 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 true Field Notes of such survey; and should any fraud be detected I will

84 suffer the penalty of perjury, under the provisions of an act of Congress approved August 8, 1846.

Philip Couzner
U. S. Deputy Surveyor.

Sworn to and subscribed before me this... 27th...
day of March, 1903.



Lehilton D. Hoover,
Clerk District Court
First District, Arizona

BOOK 1761



Office of U. S. Surveyor General,

Phoenix, Arizona, May 28-1903.

The foregoing field notes of the survey of the *Exteriors of the*

San Rafael de la Zanja private land grant,

Gila and Salt River Base and Meridian, 1st

Arizona, executed by *Philip Loutzen*,

U. S. Deputy Surveyor, under Contract No

105 dated *Nov. 29-1902* having

been critically examined, the necessary

corrections and explanations made, the

said field notes and the surveys they

describe are hereby approved.

Hugh W. Price

U. S. Surveyor General for the

District of Arizona.