

SAN JOSE DE SONOITA
LAND GRANT

M. CONTZEN
DALLAS, TEX.

1767

I.

CONTRACT 105

1767

BOOK 1767

1767

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BOOK 1767

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FIELD NOTES
GENERAL LAND OFFICE.

1767

ms. 27

Copied by E. V. May 15/03

Compared 6/18/03

also checked Jms. & Gm. Nov 10/03

Field Notes
 Of the survey of the
 Extent of the San Juan de Sonora Land Grant
 Situated in
 Townships No 22 South
 Ranges Nos 14, 15 and 16 East
 of the
 Gila and Salt River Basins and Meridian
 in
 Santa Cruz County, Territory of Arizona
 as surveyed by
 Philip C. C. C.
 U. S. Deputy Surveyor
 Under his contract No. 105.
 Dated November 29, 1902.

Survey commenced January 15, 1903.
 Survey completed January 28, 1903.

Preliminary Oaths of Assistants.

We, *John M. Trayer*

and *G. A. Hawley*

do solemnly swear that we will well and faithfully execute the duties of Chain Carriers; 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 distance 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 *Ex-teriors of the San Jose de Sonvita Grant and necessary connecting lines situated in Tps 22 S. R. 4-15-16 E* of the Gila and Salt River Base and Meridian, in the Territory of Arizona.

John M. Trayer Chainman.

G. A. Hawley Chainman.

..... Chainman.

..... Chainman.

Sworn and subscribed before me, this *14th*

day of *January* 190*3*

Homer Dauter
Notary Public.



vs. Esteban Fimbres ^{and} 2A

Mmanuel Rodrigues

do solemnly swear that we will well and truly perform the

duties of flagman and axeman

in the establishment of corners and other duties, according to instructions given us, and to the best of our skill and ability, in the survey of the

Exteriors of the San Jose de Sonvita grant and necessary connecting lines situated in Tps. 22 S. R. 14-15-16

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

Esteban Fimbres Flagman.

Mmanuel Rodrigues Axeman.

..... Axeman.

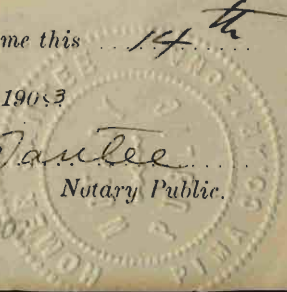
..... Axeman.

Subscribed and sworn to before me this 14th

day of January 1903

Homer Dauter
Notary Public.

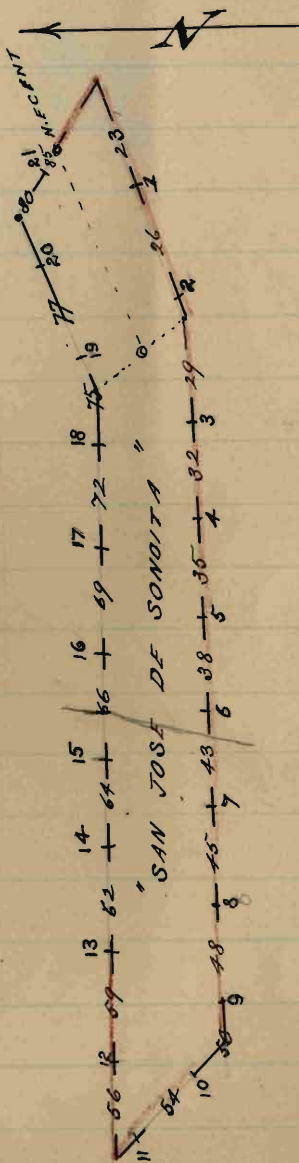
My Commission Expires Jan. 17, 1903



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Extracts of the San Jose de Sonora Council Grant.
Chains

Survey commenced January 15, 1903, 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, reaching to single minutes of arc, which is also the least count of the verniers of the latitude and azimuth arcs.

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

I examine the adjustments of the transit and correct the level and collimation errors; then to test the solar apparatus by comparing its inclinations, ^{with the} solar observations made during a.m. and p.m. hours, with a meridian determined by observations on Solis, & proceed as follows:

Expans of the San Jose de Sonora land grant
 Claims

At the center monument of the San Jose de Sonora land grant, which is a mound of stone, 6 ft base, 3 ft high, situated on N. end of high red ridge, designated in my instructions as being the monument identified by George J. Roskruze as the correct center monument of the grant, and recognized by the United States Private Land Court, from which high red both bears S. 46° E, Nothams house bears N. 21½° E, smelter stack, Santa germina bears N. 46.1° E, rocky dome bears S. 69° W, house bears N. 11¼° W, old mine of Sonora bears N. 19° W, Baldy Peak Santa Rita mountains bears N. 19½° W; latitude ³¹ 31' ³⁰ W; longitude 110° 48' W; Post off ³¹ 31' W. on the lat. arc; ²¹ 12' S. on the decl. arc, and at 2^h 30. 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, 15 chs. N. of the cor.

6
 Extremes of the Sun for the Sonora Land Grant.
 Chains

At $11^{\text{h}} 42^{\text{m}}$ p.m. by my watch which is correct, I found Polaris at western elongation, in accordance with the Manual of Instruction, and mark a line in the point thus determined on a peg driven in the ground, 15 chs. N. of my station.

January 15, 1903.

January 16: At $7:20$ a.m. l.m.t. I lay off the azimuth of Polaris $1^{\circ} 25'$ to the east, and mark the meridian thus determined by making a small groove in the stone set January 15, on which the meridian falls 0.2 ins. east of the mark determined by the solar.

At $9^{\text{h}} 02^{\text{m}}$ a.m. l.m.t. I set off $31^{\circ} 31'$ on the lat. arc, $21^{\circ} 4'$ S. on the decl. arc, and mark a point in the meridian determined with the solar, by a cross on the stone al-

Extremities of the San Jose de Sonora Land Grant.
 Chains

ready set 15 chs. N. of my station. This mark falls 0.2 in. west of the meridian established by the Polaris observation.

The solar ^{and} p.m. and a.m. observations defines positions for meridians with sufficient accuracy therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 7^h 20^m a.m. is $N. 12^{\circ} 34' W.$ The angle thus determined gives the mag. decl. $12^{\circ} 31' E.$

Before commencing the survey of the boundaries of the San Jose de Sonora land grant, I proceed to establish the N. E. corner, S. E., N. E., E. corner, W. corner, S. W. and N. W. monuments of the grant in strict compliance with my instructions. Therefore from the above described

Extremes of the San Jose de Sonora Land Grant
 Chain

center monument 3 mi

N. 52° E.

Over mountainous land.

Descending.

- 1.50 Begin steep descent.
- 4.25 Gulch, 140 ft. below top of ridge, 20
 lbs wide, course northerly; ascend.
- 7.20 Top of spur, 100 ft. above gulch, ex-
 tending N. Westerly; descend.
- 12.60 Dry creek in ravine, 100 ft. below top of
 spur, 30 lbs wide, course N. Westerly;
 ascend.
- 29.00 Top of ridge, 200 ft. above creek, bears
 N. Easterly and S. Westerly.
- 30.50 Begin descent of N. E. slope.
- 35.85 Ravine 60 ft. below top of ridge, 20 lbs
 wide, course Northerly; ascend.
- 38.85 Top of ridge, 60 ft above ravine, bears
 Easterly and Westerly, and begin

Extensions of the San José de Sonoma Land Grant.
 Chumis

strip descent.

41.00 Foot, 6.0 ft. below top of ridge, enter draw,
 course N. Westerly.

42.00 Dry creek, 40 lbs. wide, course N. Westerly.

44.00 Enter draw and begin ascent S. W. slope
 of ridge.

53.67 Old stone fence bars N. N. and S. E.

61.50 Top of ridge, 200 ft above draw, bars
 N. N. Westerly and E. S. Easterly; descend.

65.40 Ravine, 60 ft. below top of ridge, 40 lbs
 wide, course N. Westerly; descend.

69.00 Top of ridge, 40 ft. above ravine, bars
 N. N. Westerly and S. S. Easterly.

72.00 Descend.

74.00 Sully, 40 ft. below top of ridge, course
 N. N. Westerly; descend.

77.00 Top, bars Northerly and Southerly;
 descend.

84.70 Foot, 80 ft. below top of descent

Extracts of the San José de Sonata Land Grants.
 Chains

- and enter draw course S. Westerly.
- 85.70 Dry creek, 15 lbs wide, course S. Westerly.
- 86.30 Broad draw and ascend.
- 87.75 Pop, bars Easterly and Westerly; descend
- 89.00 Port, enter draw, course S. Westerly.
- 89.10 Dry creek, 15 lbs. wide, course S. Westerly.
- 91.30 Broad draw and ascend.
- 94.00 Pop, 40 ft above draw, bars N. Easterly
 and S. Westerly; descend.
- 100.10 Gully, 30 ft. below top of descent, course
 Westerly; ascend.
- 102.00 Pop, 30 ft. above gully, bars N. N. Westerly
 and S. S. Easterly; descend.
- 104.80 Descend steeply.
- 107.30 Port, 80 ft. below top of descent; enter
 draw, course N. Westerly.
- 110.15 Dry creek, 20 lbs wide, course N. Westerly.
- 114.40 Broad draw and ascend.
- 118.20 Pop, 40 ft above draw, bars N. Westerly

Extremes of the San José de Sonora Land Grant.
 Chavis

and S. Easterly; turned along N.W. slope
 of ridge.

131.68 (18690.85 ft.). To a point where I establish
 angle on No. 1, which is also the N. E
 corner monument and beginning corner of
 the survey of the boundaries of the
 grant, as follows:

Set a sandstone $24 \times 14 \times 8$ ins, 18 ins in
 the ground, marked Δ No 1 B E G C O R on
 top, N E C E N D M O N S of D S on S
 and P L on N faces, from which
 a wire cable, 16 ins diam, bears $S 77^{\circ} 14' E$, 240
 lbs dist, marked Δ No 1, B E G C O R, N E
 C E N D M O N S of D S B of, no other
 trees within limit, and raise a mound
 of stone 3 ft base, 2 ft high N. of cor.
 Site impracticable.

From this cor. Arthur Corpin's house,
 Patagonia, bears $N. 22^{\circ} 14' E$.

Extracts of the San Jose de Sonita Land Grant
Chains

Cross on church bars $N. 4\frac{1}{4}^{\circ} W.$

School house bars $N. 36^{\circ} 35' W.$

Center of depot bars $N. 1^{\circ} 40' W.$

Baldy peak, Santa Rita mountains,
bars $N. 26^{\circ} 40' W.$

House bars $N. 42\frac{1}{4}^{\circ} W.$

House bars $N. 43^{\circ} W.$

House bars $N. 50\frac{1}{2}^{\circ} W.$

House bars $N. 58^{\circ} W.$

House bars $N. 61\frac{1}{2}^{\circ} W.$

House bars $N. 66\frac{1}{4}^{\circ} W.$

House bars $N. 76\frac{3}{4}^{\circ} W.$

Land, mountainous and level.

Soil, gravelly, stony and rocky; 3rd
and 4th rates.

Timber, scattering oak, madrognethy
oak, mesquite and trestle.

Mountainous land, 117.68 chs

Extent of the San José de Sonora Land Grant.
 Chain

Turner Run

S. 60° E, 52.2540 chs (3445.75 ft) on a
 blank line over mountainous land, to a
 point where I establish angle cor. No. 2
 and S. E. monument of the grant, as
 follows:

Set a sundstone $24 \times 14 \times 8$ ins, 18 ins in
 the ground, marked Δ No. 2 on top, S E

MON S of D S on N W and S of E on
 S E faces, from which

A oak, 10 ins diam. bears S 77° E 74 chs
 dist, marked Δ No. 2 S. E **MON** S of D S.
 B S

A oak, 16 ins diam. bears S 88° E 87 chs
 dist, marked Δ No. 2 S E **MON** S of D S
 B S, no other trees within limit and
 raise a mound of stone 3 ft base, 2 ft
 high N. W. of cor. Site impracticable
 on mountainous land, 52.2540 chs.

Extent of the San Jose del Monte Land Grant.
Chains

Shaner return to N.E. center monu-
ment and run

N. 56° W. 52.25 chs. (3448.75 ft) on a blank
line, over hill and mountainous land, to
a point where I establish angle cor. No.
7 and N.E. monument of the grant, as
follows:

Set a porphyry stem 25 x 14 x 8 ins, 21
ins in the ground, marked Δ No. 7 on top.
N E COR S of D S on S. W. and S E
on N.E. corners and raise a mound of stone
3 ft base 2 ft high S. W. of cor. Site im-
practicable.

7/11/1903
10.15.2003

January 16, 1903.

From center monument I run
S 79° E

Over mountainous land, along N.E. slope
of ridge.

7.25-

Begin descent.

Excavations of the San Jose del Encanto Land Grant.
Chain

- 21.50 Ravine, 150 ft below top of descent, 20
lbs wide, course N. Westery, thence N.
Easterly; ascend.
- 23.00 Top, bears N. Easterly and S. Westery;
ascend.
- 24.00 Dry wash, 10 lbs wide, course N. Easterly,
and begin ascent along narrow spur.
- 32.50 Top, 100 ft above wash, bears N. Easterly
and S. Westery; descend.
- 36.70 Ravine, 60 ft below top of descent, 20
lbs wide, course N. Easterly; ascend.
- 38.10 Top of spur extending Easterly, 30 ft
above ravine; descend.
- 39.50 Descend steeply.
- 41.00 Deep ravine, 100 ft below top of spur,
15 lbs wide, course N. Easterly; begin
ascent N. W. slope of ridge.
- ✓ 5225 To a point where I establish angle
w. No. 3 and E. Center monument of the

Extracts of the San Jacinto Serrita Land Grant.
 Chains

grant, as follows:

Set a sandstone $24 \times 14 \times 12$ ins, 13 ins in the ground, marked Δ No. 3 on top, E C E N B M O N S J D S on N. and P L on S. faces, from which

An oak, 16 ins diam, bears S. 10° E. 132 lbs dist, marked Δ No. 3, E C E N B M O N S J D S B S.

An oak, 14 ins diam, bears S. $47 \frac{3}{4}^\circ$ N. 88 lbs dist, marked Δ No. 3, E C E N B M O N S J D S B S, no other trees within limit, and raise a mound of stone 3 ft base, 2 ft high, N. of cor. Sets impracticable.

Land mountains.

Soil, stony and rocky; 4th rate.

Timber, scattering oak, more growth, manzanita and oak.

Mountains land, 52.257chs.

Continued of the San Jacinto Sanicita Land Grant.
Chinua

Shiner's Point to enter monument
and run

N. 45° W.

Over mountainous land, descending N. W.
slope of ridge.

15.20 Foot, 150 ft below center monument and
enter Sanicita valley, bears W. D. West by
and E. N. East by.

16.00 Road to Nogales bears N. D. West by and
E. N. East by.

16.30 River fork, bears N. D. West by and E. N.
East by; enter alfalfa field.

23.00 Old wood house, bears N. 5 chs.

29.30 River fork, bears N. $48\frac{1}{4}^{\circ}$ E, and S $48\frac{1}{4}^{\circ}$ W;
bears alfalfa field.

29.70 Subgraph line, bears N. $48\frac{1}{4}^{\circ}$ E and
S $48\frac{1}{4}^{\circ}$ W.

30.14 Middle of single track of the Arizona
and New Mexico railroad, bears

Extension of the San Jacinto Serrata and Grant
Chinios

- N. $48\frac{1}{2}^{\circ}$ E. and S. $48\frac{1}{2}^{\circ}$ W.
- 30.39 Wire fence bars N. $48\frac{1}{2}^{\circ}$ E. and S. $48\frac{1}{2}^{\circ}$ W.;
left bank Serrata creek, bars N. Easterly
and S. Westerly
- 31.35 Right bank Serrata creek, 10 ft high,
course SW.
- 33.60 Road, bars N. Easterly and S. Westerly.
- 36.15 Grass valley, bars Easterly and Westerly,
begin ascent S. E. slope ridge.
- 41.50 Top of ridge, bars Northwesterly and Southerly,
descent N. slope.
- 47.70 Head of gulch, 80 ft below top of ridge;
course S. Westerly; ascent.
- 50.50 Top of spur extending S. Westerly, 40 ft
above gulch; descent.
- 52.254 (3448.75 ft) Set a point where I estab-
lish angle on No. 6 and N. Center mon-
ument of the grant as follows.
Set a sandstone $28 \times 16 \times 10$ ins, 21 ins in
the ground, marked Δ No. 6 on top, N

Extracts of the Law Book de Santa Land Grant.
Chains

ONE SMOON S of D Son S. and P Son
N. face, from which
An oak, 10 ins diam, bears S. 21° E, 96 lbs dist
marked Δ No. 6. N. ONE SMOON S of D S
B. S.

A mesquite, 10 ins diam, bears N. 19³/₄° W, 180
lbs dist, marked Δ No. 6. N. ONE SMOON
S of D S B. S.

An oak, 14 ins diam, bears N. 52¹/₂° W, 165
lbs dist, marked Δ No. 6. N. ONE SMOON
S of D S B. S. no other tree within
limit, and raise a mound of stone 3 ft
base, 2 ft high, S. of cor. Pts impracti-
cable.

Land, mountains and level.

Soil, rich hum, gravelly and rocky,
1st and 4th rates.

Timber, mesquite, oak and willow;
undergrowth, mesquite, oak and cacti.

Extrinsic of the San José de Sonvital Land Grant.
Chumis

Mountainous land, 36.10 chs.

January 17, 1903.

From E. Cent. monument I run
S 70° W, 599.873 chs. (39591.65 ft) over
bank line, over mountainous land, to
a point where I establish angle cor No. 4
and S. N. monument of the grant as
follows:

Set a granite stone $30 \times 18 \times 10$ ins, 22 ins in
the ground, marked Δ No. 4 on top, S W
N O W S J D S on N. E. and P L on
S. W. fiers, from which a mesquite 12 ins
diam, bears N 75° E, 89 chs dist, marked
A No. 4 S. N. M O W S J D S B B.

A mesquite 14 ins diam, bears S 78° E
183 chs dist, marked Δ No. 4, S W M O W
S J D S B B.

A mesquite 14 ins diam, bears S $46\frac{1}{2}^{\circ}$ W.

Extents of the San Jacinto Land Grant.
Chains

123 lks dist, marked Δ No. 4 S N W N
S P N S P S. no other in instrument,
and raise a mound of stone 3 ft long
2 ft high, N.W. of cor. Site impracticable.

From this cor. Baldy peak, Santa Rita
mountains, bears N. $75^{\circ} 55' E$.

Mrs. Josephine Loxton house, bears
S. $62^{\circ} 14' N$.

January 18 and 19, 1903.

From N. cont monument I run
S. $72^{\circ} W$, 599.84 chs. (39591.65 ft) on a
bank line, over mountainous land, to a
point where I establish angle cor. No. 5
and N. W. monument of the grant, as
follows.

Set a sandstone 28 x 16 x 10 ins, 21 ins in
the ground, marked Δ No. 5 on top. N W
Mon S P D S on S.E. and P L on

Extrials of the Sun for de Libertat Land Grant.
Chains

N. N. fairs, and raise a mound of stone
3 ft base, 2 ft high, S. E. of ev. Pits
impracticable. This ev. stands on E
bank of deep canyon.

From this ^{ev} Twin Knoll bears $S 39^{\circ} N$.

Twin Knoll bears $S 44^{\circ} 40' N$.

North peak, Atascosa mountains, bears
 $S. 65^{\circ} N$.

January 20 and 21, 1903

Having completed the survey for the estab-
lishment of angle evs 1, 2, 3, 4, 5, 6 and 7
I proceed to the N. E. end monument of
the grant, and on January 22. at $7^{h} 30^{m}$
a. m. l. m. I set of $31^{\circ} 33'$ on the lat.
arc; $19^{\circ} 47'$ S. on the decl arc, and de-
termine a true meridian with the
solar.

Plumer Bone

Extremes of the San Joaquin and Sonoran Land Grant.
Chains

S. 60° E, on First Mile.

Over mountainous land, ascending.

5.90 Top bars N. N. Easterly and S. S. Westerly;
ascend.

6.90 Gully, course N. Westerly; ascend.

14.50 Top, 60 ft above gully, bars N. Easterly
and S. Westerly; turned over smooth
land, sloping N.

16.70 New fence, bars N. 4° E. and S. 4° W.

25.75 Begin descend, bars N. Westerly and S.
Easterly.

29.40 Baring 25 ft below top of ascent, 20 lbs
iron; course Northerly, and ascend along
E. side.

40.00 Set a sandstone 25 x 14 x 12 ins, 21 ins in
the ground, for the $\frac{1}{2}$ mile cor, marked
S & S on S. W., S & L on N. E. and
 $\frac{1}{2}$ M on S. E. faces, from which
Arack, 16 ins diam, bears S. 32 $\frac{1}{4}$ ° E, 80

Excursion of the San Juan de los Rios and Grant.
Continued

- This dist. marked S of D S $\frac{1}{2}$ N B D.
An oak, 18 in diam, bears S 94° N, 46. This
dist. marked S of D S $\frac{1}{2}$ N B D, and
raise a mound of stones 3 ft base, 2 ft
high, S W of cor.
- 47.00 Top of ridge, 100 ft above ravine, bears
Northwesterly and Southwesterly.
- 48.50 Descend.
- + 52 25# Ravine, 45 ft. below top of ridge, 30 lbs
wide, course N. Easterly; S. C. monument
of the grant and angle cor No. 2, as here-
before described. This cor stands on N
side of ravine.
- From this monument angle cor No. 3
bears S. $56^{\circ} 25'$ W, therefore D runs
S $56^{\circ} 25'$ N.
- Over mountainous land, ascending.
- 5.00 Top of ridge, 75 ft above ravine, bears
Northwesterly and Southwesterly; descend.

Continuation of the San Jose de Simita Land Grant.

Chimic

5.00 Ravine, 40 ft below top of ridge, 20 lbs wide, course Northerly; as usual.

10.50 Top of ridge, 80 ft above ravine, bears Northerly and Southerly.

12.53 Wind fence bears N. $48\frac{3}{4}^{\circ}$ N. and S. $48\frac{3}{4}^{\circ}$ E.

14.00 Begin steep descent.

19.00 Dry creek, 80 ft below top of ridge, 15 lbs wide, course N. Westerly; as usual.

27.746 Completion of 1st mile.

Set a sandstone $24 \times 12 \times 12$ ins, 18 ins in the ground, for the 1 mile col, marked S of D San N. W. S. Low S. E. and 1 m on S. W. face, from which

An oak 10 ins diam, bears N. $55\frac{1}{2}^{\circ}$ N, 62 lbs inst, marked S of D S 1 m B S; no other trees within limit, and raise a mound of stone 3 ft base, 2 ft high, N W of col. Pits impracticable.

Land, mountainous and gently rolling.

Extrials of the San José de Sonora Land Grant.
Chinas

Soil, gravelly, stony and rocky; #thrusts.
Timber, scattering oak.
Mountainous land, 68.25 chs.

S 56° 25' N, on Second Mch.

Over mountainous land, ascending.

7.50 Top of N. W. slope of ridge, 200 ft above
earth, descend.

11.30 Small ravine, 40 ft below top of slope,
course N. W. to S. E.; ascend.

17.25 Top of spur, 40 ft above ravine, extending
N. W. to S. E.; begin steep descent.

34.00 Dry creek, 160 ft below top of spur, 15 ft
wide, course N. W. to S. E.

35.00 Begin ascent along broken slope of ridge.

4.00 Set a sandstone 24 x 14 x 10 ins, 18 ins in the
ground, for the 1½ mile cor, marked S 56° 25'
on N. W., S 6° on S. E. and 1½ M on S. W.
facing; from which

Extremes of the San José or Senecotat Land Grant.
Chimins

- An oak, 10 ins diam, bears S $4\frac{1}{2}^{\circ}$ E 38 lbs
east, marked S of D S $1\frac{1}{2}$ W B S.
- An oak, 14 ins diam, bears S $77\frac{1}{4}^{\circ}$ W 42 lbs
east, marked S of D S $1\frac{1}{2}$ W B S, and
raised a mound of stone 3 ft base, 2 ft
high, N. W. of cor.
- 41.50 Top of ridge, 50 ft above creek, bears
Easterly and Westerly; begin steep descent
- 43.00 Foot, 60 ft below top of ridge, bears N. Westerly
and S. Easterly; ascend steep.
- 45.00 Top of spur, 50 ft above ft of ascent,
extending N. Westerly.
- 46.00 Do. cor.
- 47.70 Ravine, 50 ft below top of spur 30 lbs wide
course N. Easterly; begin ascent of N. E.
slope of mountain
- 53.00 Top of spur, 60 ft above ravine, extending
N. Westerly.
- 56.00 Begin steep descent.

Continuation of the Survey of the *San José de San Mateo* Land Grant
 Chains.

63.00 Run in, 130 ft below top of spur, 30 lbs
 wire, course N. N. West by; as usual.

68.50 Top of ridge, 80 ft above main bars Easterly
 and Westerly, then along N. W. slope,
 descending.

80.00 Set a small stone 25 x 10 x 8 ins, 21 ins in the
 ground, for the 2-mile ev, marked S $\frac{1}{2}$ D S
 on N. N, S. E. on S. E. and 2 W on S. W.
 bars, from which

An oak, 12 ins diam, bars N. 62 $^{\circ}$ $\frac{1}{4}$ E, 118 lbs
 dist, marked S $\frac{1}{2}$ D S 2 W B D.

An oak, 10 ins diam, bars N. 42 $^{\circ}$ $\frac{1}{4}$ W, 6 lbs
 dist, marked S $\frac{1}{2}$ D S 2 W B D, no other
 trees within limit, and raise a mound
 of stone 3 ft base, 2 ft high, N. W. of ev.
 Site impracticable.

Land, mountainous.

Soil, gravelly and stony; 4th class.
 Timber, scattering oak.

Extremities of the San José de Soncatal Land Grant.

Chains

Mountainous land, 8,000 chs.

✓ S. $56^{\circ}25'$ N. on Third Mile.

Over mountainous land, descending

9.55 Footing on No. 3 and Cent. monument
of the grant, as heretofore described.

Shiner Point

S. 70° N.

Over mountainous land, descending.

1.90 Foot, bars N. Westerly and S. Easterly;
ascend.

3.10 Top, bars N. Westerly and S. Easterly;
descend.

4.00 Foot, inter ravine, course Westerly.

5.80 Head ravine, course N. N. Westerly
and ascend.

6.75 Top of spur extending N. Westerly;
descend.

9.40. Bottom 40 ft below top of spur, course

Extremes of the San José de Sanat and Grant.
Chains

- N. Westerly; begin ascent N.E. slope high ridge.
- 19.00 Top of ridge, 250 ft above ravine, bears N. Westerly and S. Easterly; begin descent S. W. slope.
- 24.00 Flat, 100 ft below top of ridge, bears N. N. Westerly and E. S. Easterly; ascend.
- 27.00 Top of spur, extending N. Westerly descend.
- 30.45 Set a sandstone 30 x 16 x 12 ins 22 ins in the ground, for the 2 $\frac{1}{2}$ mile or marked S G D S on N.W. S B on S.E. and 2 $\frac{1}{2}$ W on S. W. face, from which
- An oak, 24 ins diam, bears S. 46 $\frac{1}{2}$ ° E, 12 lbs dist, marked S G D S 2 $\frac{1}{2}$ W B B.
- An oak, 16 ins diam, bears S. 41 $\frac{1}{4}$ ° W, 12 lbs dist, marked S G D S 2 $\frac{1}{2}$ W B B, and raise a mound of stone 3 ft base 2 ft high, N. W. of oak. Pits impracticable.

Extremes of the San Joaquin del Somata Land Grant.
Chains

cable.

- 36.00 Dry creek, 40 ft below top of spur, 20
lks wide, course N. N. Westerly; ascend.
- 42.00 Top of spur 40 ft above creek, extending
N. Easterly; begin descent along broken
slope.
- 48.70 Foot, bars N. Easterly and S. Westerly;
ascend.
- 53.00 Top of spur, extending Westerly, descend.
- 56.50 Dry creek 60 ft below top of spur, 20
lks wide, course N. Westerly.
- 57.00 Begin ascent N. E. slope of high ridge.
- 65.00 Top of ridge 300 ft above creek, bars
N. N. Westerly and S. S. Easterly; descend
S. W. slope.
- 69.00 Enter ravine, 40 ft below top of ridge,
bars S. Westerly, course N. E.
- 70.45 completion of 3rd mile.
- Set a sandstone 28x14x12 ins, 21 ins in

Exp. of the Sun for the Sincita Land Grant.
6 chains

The ground for the 3 mile sq. marked
S & S on N. W. S & on S. E. and S W
on S. W. faces, from which
An oak, 16 ins diam, bears S $31\frac{3}{4}^{\circ}$ W, 178 lbs
dist, marked S & S S W B B.

An oak, 14 ins diam, bears S $67\frac{1}{2}^{\circ}$ W, 243
lbs dist, marked S & S S W B B;

|| no other trees within limit, and pass a
mound of stones 3 ft base, 2 ft high, N. W.
of cor. Pits impracticable.

Land mountainous.

Soil, stony and rocky; 4th rate.

Timber, oak, undergrowth, manzanita
and oak.

Mountainous land, 8,000 chs.

January 22, 1903.

S. 70° W. on South Mile.
Over mountainous land, descending

Extremes of the Saw for de Anata Land Grant.
Chains

- along ravine.
- 2.30 Cross ravine, course N. N. Westerly and
begin ascent N. E. slope ridge.
- 10.00 Top of spur, 75 ft above ravine, extending
N. Westerly; descend.
- 23.50 Foot, 70 ft below top of spur, and enter
valley, bears N. N. Westerly and E. S. Easterly
- 24.10 Dry creek, 25 lbs wide, course N. N. Westerly.
- 25.00 Old noble house, bears about 8.00 chs N.
- 29.80 Pond, bears N. N. Westerly and S. S. Easterly.
- 34.50 Old noble house bears 3.00 chs N.
- 37.00 Dry creek, 1 ch wide, course N. N. Westerly
- 37.50 Draw valley, bears N. N. Westerly, and
ascent steep.
- 4.00 Set a sandstone 28 x 12 x 8 ins, 21 ins in the
ground, for the 3 $\frac{1}{2}$ mile cor, marked
S of S on N. W., S of on S. E. and
3 $\frac{1}{2}$ W on S. W. faces, from which
An oak, 14 ins diam, bears S. 62 $\frac{1}{4}$ E, 47

Extremes of the San Jacinto Summit and Great
Chains

- The dist. marked S of D S $3\frac{1}{2}$ M B S.
 A mesquite, 12 ins diam, bears N. 4° W, 64
 The dist. marked S of D S $3\frac{1}{2}$ M B S,
 and raise a mound of stone 3 ft base, 2 ft
 high N. W. of ev. Pits impracticable.
- 60.00 Top of spur 300 ft above valley, extend-
 ing Northwly; descend.
- 66.70 Road, bears Northwly and Southwly.
- 74.20 Dry creek, 300 ft below top of spur,
 20 the wide, course N. N. Westwly; ascend.
- 79.02 Wire fence, bears N. Easterly and S. Westwly.
- 80.00 Set a sandstone $28 \times 14 \times 10$ ins, 21 ins in
 the ground for the 4 mile ev. marked
 S of D S on N. W. B on S. E., and
 4 M on S. W. faces, from which
 An oak, 12 ins diam, bears N. 1° E, 74
 The dist. marked S of D S 4 M B S,
 An oak, 14 ins diam, bears S. 2° E, 278
 The dist. marked S of D S 4 M. B S,

Extrior of the San José de Sonora Land Grant.
Chumis

no other firs within limit, and raise
a mound of stone 3 ft base, 2 ft high,
N. W. of ur. Pits unproductive.

Land mountainous.

Soil, stony and rocky, 4th rate.

Timber, scattering oak and mesquite,
undergrowth oak and manzanita.

Mountainous land, 8000 chs.

S. 70° W. on Fifth Mch.

Over mountainous land, ascending.

2.62 Hair finer hairs Easterly and Westerly.

4.00 Top of ridge 300 ft above creek, hairs

N. N. Easterly and S. S. Westerly; desc end.

4.70 ~~Peak~~ ~~Peak~~ ~~Peak~~ hairs N. N. Easterly and S. S.
Westerly.

7.60 Only 70 ft below top of ridge, course S.
Westerly; thence ascend along S. E. slope
of spur.

- Elevation of the San Juan del Socitad Land Grant.
 Chumins
- 13.50 Top, bars Northerly and Southerly;
 descend.
- 19.00 Foot, bars Northerly and Southerly;
 ascend.
- 32.00 Top of rocky spur of ridge, 160 ft above
 ft of ascent bars N. Easterly and S.
 Westerly; thence along S. slope ascending.
- 38.30 Top of spur bars N. Easterly and S.
 Westerly; begin descent N. Slope.
- 40.00 Set a sandstone 20x16x12 ins 20 ins in
 the ground for the 4 1/2 mile cor, marked
 S. E. on N. W. P. on S. E. and 4 1/2 W
 on S. W. faces, and raise a mound of
 stone 3 ft base, 2 ft high, N. W. of cor.
 Pits impracticable.
- 44.50 Prospect hole on land
- 46.90 Foot, bars Northerly and Southerly;
 begin ascent N. Slope of ridge.
- 55.00 Top, bars Easterly and Westerly;

Exposure of the San Juan de Sonvita Land Grant
Chamiso

Turned along backbone of ridge.

6000 Begin descent.

69.40 Descent stopped.

72.00 Drove 200 ft below top of ridge and enter
Sonvita valley, bears N. Easterly and
S. Westerly.

72.10 Road to Mezcala, bears Northerly and
Southerly.

75.60 Left bank Sonvita creek bears N.
Easterly and S. Westerly.

8000 The point for the 5 mile ev. falls in
bed of Sonvita creek.

81.00 Set a sandstone 28x18x12 ins, 21 ins in
the ground for witness ev to the 5 mile
ev, marked W C, S of D S in N. W.,
S. E. in S. E., and S W on S. W. face;
from which

An ash, 12 ins diam bears S. 36° E, 49
the dist, marked W C, S of D S S W B S.

Extent of the San Jose de Somat Land Grant.
Chains

An ash, 24 ins diam, bars S. $56\frac{1}{4}^{\circ}$ W 43
 the dist, marked W C S G D S 5 M B D.
 An ash, 8 ins diam, bars S. $88\frac{3}{4}^{\circ}$ W 35
 the dist, marked W C S G D S 5 M B D.
 An ash, 8 ins diam, bars N. 1° W 54 the
 dist, marked W C S G D S 5 M B D.
 dig pits 36 x 36 x 12 ins, N.E. and S.W.
 of stone, 4 ft. dist, and raise a mound
 of earth 5 ft base, $2\frac{1}{2}$ ft high,
 N.W. of cor.

Land, mountainous and level.
 Soil, rich and sandy loam, stony
 and rocky, 1st and 4th rates.
 Timber, oak, and ash, sycamore and
 willow along Somata creek, undergrowth,
 musquit and oak.
 Mountainous land, 72.00 chs.

S. 70° W. on Sixth Mile.

Exposures of the San Juan de los Rios and Grant
Chimins

- Over level bottom land.
- .50 Right bank San Juan creek, bars N.
Easterly and S. Westerly.
- 1.00 Wilcox cr.
- 4.40 Old dry channel, 80 lbs wide, course
S. Westerly.
- 4.60 Road, bars N. Easterly and S.
Westerly.
- 5.96 Rail fence bars N. $43^{\circ}E$ and S. $43^{\circ}W$.
- 7.20 Middle of single track of the Arizona
and New Mexico railroad, bars N. $43^{\circ}E$
and S. $43^{\circ}W$.
- 8.28 Telegraph line, bars N. $43^{\circ}E$ and S. $43^{\circ}W$.
- 8.30 Railroad crossing.
- 8.70 Grass valley, bars N. Easterly and S.
Westerly, and begin ascent along S. W.
slope of ridge.
- 17.55 Top of ascent 200 ft above valley, bars
Northerly and Southerly, and begin

Extracts of the Survey of the Land Grant.
Cherius

descent.

32.00 Enter dense mesquite undergrowth, bars
N. Westerly and Southwesterly.

37.40 Pond, bars N. Westerly and S. Easterly.

40.00 Set a sandstone $28 \times 16 \times 12$ ins, 21 ins in the
ground for the $5\frac{1}{2}$ mile ev. marked
S of D S on N. W. P. on S. E. and $5\frac{1}{2}$
W on S. W. facia, from which

A mesquite, 14 ins diam, bars N. $30\frac{1}{2}^{\circ}$ W,

14 cho dist, marked S of D S $5\frac{1}{2}$ W B B,

A mesquite 5 ins diam, bars S. $60\frac{1}{4}^{\circ}$ E,

40 cho dist, marked S of D S $5\frac{1}{2}$ W. B B.

and raise a mound of stone 3 ft base, 2 ft
high, N. W. of ev. Pits impracticable.

From this ev. Sunfords house bars $840\frac{1}{4}^{\circ}$ E,

Hogers, bars S $26\frac{1}{2}^{\circ}$ E, about 12 cho dist.

40.30 Bar dense mesquite undergrowth, bars
Easterly and Westerly, and begin steep
descent.

Exposure of the San Juan de Sonora Sand Sheet.

Chert

42.30

Foot, right bank Sonora creek, 10 ft high, bars Easterly and Westerly, and enter Sonora valley.

46.70

Left bank Sonora creek, bars Easterly and Westerly.

52.78

Wire fence, bars N. 79° E. and S. 79° W.

53.44

Pelograph line, bars N. 79° E. and S. 79° W.

154.20

Middle of single track of the Arizona and New Mexico railroad, bars N. 79° E. and S. 79° W.

55.60

Wire fence, bars N. 79° E. and S. 79° W.; bars valley road as usual.

63.17

Wire fence, bars N. 63° W. and S. 63° E.

76.70

Top of ridge, 130 ft above valley, bars Northwesterly and Southerly; as usual.

8000

Set a sandstone $25 \times 14 \times 12$ ins, 21 ins in the ground for the 6 miles we marked S. J. S. on N. W., P. L. on S. E. and C. W. on S. W. face, from which

Extremes of the San Jose de Senecita Land Grant.
Chains

Run 10 ins. chain, bears S. $75^{\circ} 2'$ W. 210
lks. dist, marked S of D S 6 W B A.

Run 12 ins. chain, bears N. 20° W. 196
lks. dist, marked S of D S 6 W B B; no
other trees within limit and raised a mound
of stone 3 ft. base, 2 ft. high, N. W. of cor.
Pits impracticable.

Land, mountainous and level.

Soil, rich, and sandy loam gravelly
and stony; 1st and 4th rates.

Timber, oak, ash, sycamore, mesquite
and willow, undergrowth, mesquite,
oak and locust.

Mountainous or level covered with
dense undergrowth 58.00 ch.

January 23, 1903.

January 24: At 7^h 30^m, a.m.,
l.m.t. I set off 31° 30' in the

Extrins of the San José de Serrita Land Grant.
Chains

lat are ¹⁹⁻²⁰ 19° 20' S. and the dials are used
determined at true meridian with the
solar at the 6 mile cor.

Planes I ran

S 70° W. on South Mt.

Over mountainous land; descending.

1.50 Wire fence bars N. W. Westerly and S. S.
Easterly.

4.35 Ravine 130 ft below top of ridge; 20 the
ridge course Northerly; and begins ascent
N. E. slope of ridge.

14.50 Top of ridge 100 ft above ravine, bars
Northerly and Southerly.

15.50 Descent.

22.85 Small ravine, 40 ft below top of ridge,
course S. Westerly; and ascend

36.50 Top of divide 130 ft above ravine,
bars Northerly and Southerly; descend.

41.00 Set a sandstone 28x16x10 ins, 21 ins in

Extremes of the Sun from de Societat Land Grant.
C. Davis

- The ground, for the 6 $\frac{1}{2}$ mile cor, marked
S of D S on N. W, P E on S. E. and 6 $\frac{1}{2}$ M
on S. W. faces, and raise a mound of stone
3 ft base 2 ft high, N. W. of cor. Pits
impracticable.
- 52.60 Ravine, 200 ft below top of divide,
30 lbs wide, course N. Westerly; as end.
- 70.50 Top of spur, 100 ft above ravine, ex-
tending Northwily; as end.
- 75.85 Ravine, 30 ft below top of spur,
course Northwily; as end.
- 78.00 Top S. slope high round Knoll, top
of Knoll bears 1 ch N; as end.
- 80.00 Set a sandstone 28 x 78 x 8 ins, 21 ins in
the ground, for the 7 mile cor, marked
S of D S on N. W, P E on S. E. and 7 M
on S. W. faces, from which
An oak 14 ins diam bears S. 45 $\frac{1}{2}$ E 220
lbs dist, marked S of D S 7 M B P

Extracts of the Survey of the Mountains Land Grant.
Chains

no other trees within limits and raise
a mound of stones 3 ft base, 2 ft high,
N. W. of cor. Site impractical.

From this cor. Sanford section house
bears N. 52° W.; corals bear N. 27° W.
Land mountainous.

Soil, gravelly and stony; 3rd and 4th
rate.

Timber, scattering oak and magnolia;
undergrowth oak and magnolia.
Mountainous land, 8000 chs.

S. 70° W. on Eighth Mile.

Over mountainous land, descending.

1.00 Small ravine, 80 ft below top of spur,
course N. W. & S. E.; ascend.

2.00 Top of spur, 50 ft above ravine, extending
Northward; descend.

4.20 Foot, bears Northward and Southward, ascend.

Extremes of the Saw Grove de Somers Land Grant.
Chains

- 6.00 Top of spur extending Northwly; descend.
- 9.40 Feet bars N. Easterly and S. Westerly; ascend.
- 15.50 Top of ridge, 100 ft above foot of ascent, bars Northwly and Southwly; begin steep descent.
- 20.65 Ravine, 150 ft below top of ridge, 80 lbs wide, course Northwly; ascend.
- 29.40 Top of ridge, 80 ft above ravine, bars N. Easterly and S. Westerly; descend.
- 31.00 Ravine course N. Easterly; ascend.
- 35.00 Top of divide, 50 ft above ravine, bars Northwly and Southwly; thence descend along S. slope ridge.
- 41.00 Set a sandstone $24 \times 12 \times 12$ ins, 18 ins in the ground, for the $7\frac{1}{2}$ mile cor marked S. of S on N. W. S. E. on S. E. and $7\frac{1}{2}$ M on S. W. bars, and raise a mound of stones 3 ft long, 2 ft high, N. W. of cor. Site impracticable.

Extras of the San José de Soncatal Land Grant.

Cherms

- 47.15 Top of mesa bars N. Westerly and S. Easterly.
- 50.90 Bar in 100 ft. below top of divide, course
Westerly; ascend.
- 59.50 Top, bars Northwly and Southwly; descend.
- 62.80 Spring branch, 8 bars wide, course Northwly;
ascend.
- 67.00 Top, 50 ft. above branch, bars N. Westerly
and S. Easterly; descend.
- 67.10 Spring, bars S. 18° E, about 10 chs dist.
- 75.20 Small dry wash, course Northwly; ascend.
- 77.20 Top, bars Northwly and Southwly; descend.
- 79.15 Deep gully, course Northwly; ascend.
- 80.00 Set a porphyry stone 24 x 16 x 10 ins, 18
ins in the round, for the S. mile cor, marked
S & N S on N. W. S & N on S. E. and S W on
S. N. face, from which
A mensure, 14 ins diam, bars N. 81° E, 180
the dist marked S & N S & N B. D. no
other bars within limit, and raise a

Extremes of the San Juan de los Rios Land Grant
Chains

mound of stone 3 ft base, 2 ft high,
N.W. of cr. Pits impracticable.

Land, mountainous.

Soil, gravelly and stony; 3rd and 4th rates.
Pine, scattering oak and mesquite;
undergrowth, mesquite.

Mountainous land, 5000 ch.

x S. 70° W. on Ninth Mile.

Dry mountainous land, as ending.

8.00 Top of spur 70 ft above gulley, extending
Northwly; desc end.

14.20 Dry creek, 100 ft below top of spur, 30 lbs
wide, course Northwly; begin ascent along N.
slope of high mountain.

38.00 Top of slope 300 ft above creek extending
N. Westwly; top of mountain bears 6 ch S.
desc end.

41.00 Set a porphyry stone 28 x 16 x 8 ins, 21 ins in

Extremes of the Sand Pass de Sonita and Grant.
 Chassis

- The ground for the 8¹/₂ mile ev marked
 S of S on N.W., P on S.E. and S¹/₂ M
 on S.W. faces, and raise a mound of
 stone 3 ft base 2 ft high, N.W. of ev.
 Pits impracticable.
- 55.70 Ravine, 300 ft below top of slope, 20
 this road course N. Westward; ascend.
- 68.00 Top N. slope of ridge, 150 ft above ravine,
 descend.
- 76.00 Small ravine 60 ft below top of slope,
 course N. Westward; ascend.
- 78.00 Top of ridge, 40 ft above ravine. Course
 N. Westward and S. Eastward; descend.
- 80.00 Set a granite stone 30 x 16 x 7 ins 22 ins
 in the ground, for the 9 mile ev marked
 S of S on N.W., P on S.E. and of
 N on S.W. faces, and raise a mound
 of stone 3 ft base 2 ft high, N.W. of
 ev. Pits impracticable.

Extremes of the San José de Sordal Land Grant
Chains

This wt. stands on N. slope of ridge, 60
ft above canyon.

Land mountainous.

Soil stony and rocky; 4th rate.

Timber, scattering oak.

Mountainous land, 5,000 chs.

January 24, 1903.

January 25: At 7^h 45^m a.m. l.m.t., I
set off at 31° 29' on the lat arc; 19° 6' S.
on the decl arc and determine a
true meridian with the solar alt the
7 miles wt.

Turner Point
S. 70° W. on South Mile.

On mountainous land. obs ending.

2.00

Box canyon 150 ft below top of ridge,
25 chs wide, course N. West by; begin
steep ascent.

Exposures of the San Juan de Sumata Land Grant.
 Chronis

690

Top of ridge, 200 ft above canyon,
 bars Northernly and Southernly; as usual
 S. W. slope.

13.93

Ravine, 40 ft below top of ridge, 15 lbs
 wide, course N. Westerly; as usual.

16.83

Top 60 ft above ravine bars N. Westerly
 and S. Easterly; same as usual.

26.43

Enter dense mesquite undergrowth,
 bars Northernly and Southernly.

4000

Set a granite stone $28 \times 14 \times 10$ ins 21 ins
 in the ground for the 9th mile cor,
 marked S J D S on N. W. S on S. E.
 and 9th Mile on S. W. face. From which
 A mesquite 8 ins diam, bears N. $58\frac{1}{2}^{\circ}$ E
 182 lbs dist, marked S J D S 9th
 M B J

A mesquite 9 ins diam bears N. 56° W,
 42 lbs dist, marked S J D S 9th M
 B J, and raise a mound of stone 3 ft

Extremities of the San José de Serrata Land Grant.
Chains

dist marked S 70° E 10 W 13 J.
A cedar, 10 ins diam base S. 28° W 123
the dist marked S 70° E 10 W 13 J.
another tree within limit and raised a
mound of stone 3 ft base, 2 ft high N. W.
of cor. Pile impracticable.

Ground mountainous and level.

Soil rich sand stony and rocky; 1st
and 4th rates.

Timber mesquite as cedar and cottonwood,
undergrowth, mesquite and amole.
Mountainous of land covered with amole
undergrowth, 61.90 chs.

N. 68° 16' W. on Church Mill.
Very mountainous land, ascending through
dense amole undergrowth.

3.40 Top of ridge, 80 ft above river base
N. E. slope and S. W. slope; descend.

Extremes of the San Juan de Senecot Land Grant.
Chains

- 10.70 Canyon, 140 ft below top of ridge, 40 lbs wide, course S. Westerly, and ascend over sharp spur extending Easterly.
- 25.00 Cross dense woods, course Northerly and Southerly.
- 35.00 Top of spur, 150 ft above canyon, extending S. Westerly; descend.
- 40.00 Set a granite stone 28x16x12 ins, 21 ins in the ground for the 10 $\frac{1}{2}$ mile cor, marked S of 10, S on N.E., P on S.W. and 10 $\frac{1}{2}$ W on W.W. faces, and raise a mound of stone 3 ft base, 2 ft high, N.W. of cor. Pits impracticable.
- 41.00 Ravine, 70 ft below top of spur, 20 lbs wide, course S. Westerly; ascend.
- 52.00 Top of spur, 60 ft above ravine, extending Southerly; descend.
- 56.60 Ravine, 30 ft below top of spur, course Southerly; begin ascent along S. slope

Expens of the San Jose de Semita Land Grant.
Chains

of ridges.
73.00 Top of ridge, 75 ft above ravine, from
N. Easterly and S. Westerly; Asend.

5.00 Set a granite stone $28 \times 16 \times 16$ ins. 21 ins
in the ground, for the 11 mile cor
marked S of E S on N.E, S E on S.W
and 11 W on N.W face, and raise a
mound of stone 3 ft base, 2 ft high,
N.E. of cor. It's impracticable.
Land, mountainous.

Soil, stony and rocky; 4th rate.
Timber, scattering cedar and mosquito.
undergrowth, amole, mosquito and cestillo
etc etc.

Mountainous or land covered with dense
undergrowth, 8000 cu.

+ N. 65° 16' W. on Inval. 1/4 Mile.
Very mountainous land, descending.

Extent of the San José de Sonvita land Grant.

Chains

166

Enter across arroyo, bears Northerly and
Sotherly.

666

Go angle over No. 5, and N. W. monument of
the Grant, as heretofore described.

Thence I run

N. 72° E.

Over mountainous land, ascending through
arroyo arroyo.

334

Top of ridge, bears N. Easterly and S. Westerly,
bears across arroyo and descend.

1834

Ravine 80 ft below top of ridge course N.
Westerly, begin ascent along S. slope of ridge.

3334

Set a long conic stone $24 \times 14 \times 10$ ins, 18
ins in the ground, for the $11\frac{1}{2}$ mile, and
marked S of D S on S. E. B D on N. W.
and $11\frac{1}{2}$ W on N. E. faces from which
a mesquite 12 ins diam bears N. 75° W, 114
the dist marked S of D S $11\frac{1}{2}$ W B D,
no other bar within limit, and raise a

Exhurs of the San Jose de Sonvilat Land Grant
Chains

- monnd of stone 3 ft base, 2 ft high, S. E. of
cor. Pits impracticable.
- 45.34 Top of ridge 100 ft above ravine, bears
Northwly and Southwly; descend.
- 54.34 Post 60 ft below top of ridge, bears
Northwly and Southwly; ascend.
- 64.34 Top of ridge, 80 ft above foot of ascent,
bears N. Easterly and S. Westerly; descend.
- 73.34 Completion of 12 miles.

Set a malpais stone 28 x 16 x 10 ins, 21 ins in
the ground for the 12 miles and marked
S. J. S. on S. E. P. S. on N. W. and 12 M
on W. E. faces and raise a mound of stone
3 ft base, 2 ft high, S. E. of cor. Pits
impracticable.

Land mountainous.

- Soil stony and rocky; 4th rate.
Timber scattering oak and mesquite;
undergrowth amole and cecillo cactus.

Sections of the S.W. of 100th Street Land Grant
Chinnis

Mountainous or land covered with dense
undergrowth, 8,000 cu.

January 25, 1903.

N. 72° E. on Thirtieth Mile.

Over mountainous land, descending.

- 2.50 Foot, 60 ft below top of ridge, base Northerly
and Southerly; ascend.
- 5.50 Top of ridge, 40 ft. above foot of ascent base
Northerly and Southerly; descend.
- 9.00 Ravine, 50 ft below top of ridge, course Southerly;
ascend.
- 11.00 Top of ridge, 60 ft. above ravine base Northerly
and Southerly; descend.
- 15.00 Ravine, 100 ft below top of ridge, 30 cu. ridge,
course Southerly; ascend.
- 21.00 Top of ridge, 70 ft above ravine base
Northerly and Southerly; descend.
- 29.00 Foot 50 ft below top of ridge, base N.

Excursions of the San Jose de Sonora Land Grant
Chains

- 31.00 North and S. Easterly; ascend.
Top, 50 ft above foot of ascent, bears
N. Westerly and S. Easterly;
- 32.00 Descend.
- 38.00 Foot, 50 ft below top of ascent, bears
N. Westerly and S. Easterly; ascend.
- 40.00 Set a granite stone 28 x 10 x 8 ins 21 ins in
the ground for the 12¹/₂ mile or, marked
S of S on S. E., P on N. W. and 12¹/₂ M
on N. E. face, from which
An oak, 12 ind diam bears S. 34° W. 142
the dist marked S of S 12¹/₂ M. B. S.;
no other tree within limit, and raise a
mound of stone 3 ft base, 2 ft high, S. E.
of or. Pits impracticable.
- 42.00 Top, 30 ft above foot of ascent, bears
Northerly and Southerly; ascend.
- 47.00 Rocky ravine 50 ft below top of ascent,
30 ft wide, course S. Easterly; ascend.

Concluded, Book 1768.