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T.1N.						
3	5	2	2	2	1	
6	5	4	3	2	1	6
		T.1S.				
7					12	7
18					13	18
19					24	19
30					25	30
31	32	33	34	35	36	31
R.10W.						

Ex. lines T.1 S., R.10 W. S.B.M.
S.B. T. 1 N., R. 9 W.

80.00

Set charred oak stake and charred pine post
S.W. T. 1 N. R. 9 W.
from which bears

Sycamore S $89^{\circ}45'E$ 238 lks. dist. 9 ins. dia. T 1 S. R. 9 E. S. 6
Sycamore S $34^{\circ}W$ 400 lks. dist. 14 ins. dia. T 1 S R 10 W 1
Sycamore N $89^{\circ}30'E$ 213 lks. dist. 8 ins. dia. T 1 N R. 9 W. S. 31
Sycamore N $89^{\circ}W$ 1049 lks. dist. 12 ins. dia. T 1 N R. 9 W. S. 36
First 36 chs. broken surface, being very hilly, wild sage and
brushes. No timber, 3rd. rate land partly 2nd. Residue level
scattering timber of Sycamore and oak ~~brushy~~ with heavy
growth of prickly pear in places.

Note—The high hills noted on the 4th. 5th. and 6th. miles on
south Bdy. of T.1 N. R. 9 W do not extend to the Coast Range
of mountains, but are surrounded by a large valley.

Ascertaining the variation of the needle at a point about
120 chs. N.W. from the S.E. of T 1 N. R. 10 W. on the night of
19th. Dec. 1852.

Found to be as near as may be $13^{\circ}45'$ East.

19th. Dec. 1852.

Ex. lines T 1 S, R. 10 W, S .B.M.
S. Bdy. T 1 N, R. 10 W.

Variation of the needle $13^{\circ}45'E$.

West 1st. mile on South Bdy. of T.1 N. R. 10 W.

40.00

Oak stake, charred and charred

Sycamore $\frac{1}{2}$ Sec. post in a mound of earth from which the center
of 4 pits bears

North 10 lks. South 10 lks. East 10 lks. and West 10 lks.

Planted 4 olive seeds.

80.00

Charred oak stake and charred Sycamore post in a mound of
earth, from which, being a Cor. to Secs. 35 and 36 T 1 N. R. 10 W.
Secs. 1 and 2 T 1 S, R. 10 W.

The center of 4 pits bears N $45^{\circ}E$ 11 lks. S. $45^{\circ}W$ 11 lks. S $45^{\circ}E$
E 11 lks. N $45^{\circ}W$ 11 lks.

Planted 4 olive seeds.

East mile 1st. rate level open Prairie.

Note. The Rancho claimed by Henry Dalton and known by the name
of Azusa now occupied by George Dalton bears N $32^{\circ}45'W$. there
being a heavy growth extending nearly to the mountain of Post
Oak and red oak E. and S .E. of this Rancho.

Ex. line T.1S.R.10 W., S.B.M. & S.B.T.1 N.R.10 W.S.B.M.

West 2d. mile on South Bdy. of T.1 N.R.10 W.

- 20.00 To Daltons improvement nearly N. and S.
40.00 Charred oak stake and charred Sycamore $\frac{1}{4}$ Sec. post in a mound of earth from which the center of 4 pits bears North 10 lks., south 10 lks., East 10 lks., West 10 lks.
Planted 4 olive seeds
Note-At last $\frac{1}{4}$ Sec. Cor. Rancho Azusa bears N. $2^{\circ}30'E$
45.20 Leave improvement bearing N $10^{\circ}E$ nearly to Daltons dwelling S $10^{\circ}W$ about 10 chs.
58.50 Cross road leading to Los Angeles course S $35^{\circ}W$
69.20 To Ranch 5 lks. wide course S $35^{\circ}W$ to scrub, bearing S $35^{\circ}W$
80.00 Oak charred stake and charred alder post in a mound of earth, corner to Secs. 34 and 35, T 1 N., R. 10 W. Secs. 2 and 3 T 1 S R 10 W. from which the center of 4 pits bears N $45^{\circ}E$ 11 chs. dist. S $45^{\circ}W$ 11 chs. dist. S $45^{\circ}E$ 11 lks. N. $45^{\circ}W$ 11 lks.
Planted 4 olive seeds.
First 69.20 chs. 1st. rate level Prairie- light soil-residue wavy Scrub. Stony, prickley pear- 3rd. rate.

West 3rd. mile on South Bdy. of T.1 N.R.10 W.

- 40.00 Charred oak stake and charred sycamore $\frac{1}{4}$ sec. post in a mound of earth, from which the center of 4 pits bears-North 10 lks., south 10 lks., East 10 lks., West 10 lks.
Planted 4 olive seeds
80.00 Charred oak stake and charred alder post, in a mound of earth from which the center of 4 pits bears N $45^{\circ}E$ 11 lks., S $45^{\circ}W$ 11 lks., N $45^{\circ}W$ 11 lks., S $45^{\circ}E$ 11 lks. being a corner to Secs. 33 and 34, T.1 N., R.10 W. and Secs. 3 and 4 T.1 S, R.10 W.
Last mile moderately wavy, cedar, prickley pear, wild gage.
Stony, 3rd. rate, scrub.

Dec. 20, 1852.

West 4th. mile on South Bdy. of T.1 N., R.10 W.

- 40.00 Charred willow stake and charred sycamore $\frac{1}{4}$ Sec. post
From which bears
A cedar N. $48^{\circ}W$ 105 lks. dist. 8 in. dia.
Swamp dogwood S $20^{\circ}E$ 163 lks. 4 in. dia.
80.00 Charred oak stake and charred alder post
From which bears
Swamp dogwood N $57^{\circ}30'E$ 300 lks. dist. 8 in. dia. T 1 N., R.10 W. S 33
Swamp dogwood, N $34^{\circ}W$ 114 lks. dist. 3 in. dia. T 1 N. R.10 W. S 32
Cedar S $66^{\circ}E$ 76 lks. dist. 12 in. dia. T.1 S, R.10 W. S 4
Swamp dogwood N $80^{\circ}W$ 72 lks. dist. 4 in. dia. T 1 S, R 10 W. S 5

Ex. line T 1 S. R 10 W. S. B. M. & S. B. T 1 N, R. 10 W. S. B. M.

Last mile moderately wavy and level, poor 3rd. sandy and rocky, scrub, with scrub growth of cedar, oak swamp dogwood, wild sage brushes, prickley pear &c.

West 5th. mile on South Bdy. of T 1 N. R. 10 W.

- 30.00 To ravine, dry, 70 lks. wide, course S.W. to low rocky surface, overflows
40.00 Charred $\frac{1}{4}$ Sec. post, in a stone mound.
From which bears
An oak, S 84°W 318 lks. dist. 8 in. dia
Swamp dogwood N 14°E 263 lks. 4 in. dia.
- 44.90 To a stream, set in motion by recent rains.
46.90 Cross stream, 200 lks. wide, general course S 34°W rocky bottom,
swift current, 24 in. deep, being a branch of San Gabriel River.
50.50 Crossed stream 15 lks. wide, course South (like the former) a
periodical stream.
56.00 To San Gabriel river, course S.W. constant stream.
59.00 Cross the river, very high water upwards of 40 in. deep. Swift currents,
rocky bottom, course S.W.
71.00 Cross stream, 200 lks. wide, supposed to be a branch of San Gabriel
river, ^{shallow} course S.W.
75.50 Cross another stream, periodical, 130 lks. wide, shallow, course S.W.
80.00 Set charred stake and cedar post in mound of earth, cor. to Secs.
31 and 32, T 1 N. R. 10 W, Secs. 5 and 6 T 1 S, R. 10 W. from which the
center of 4 pits bears N 45°E 11 lks., S 45°W 11 lks., N 45°W 11 lks.
S 45°E 11 lks.

Last mile 3rd. mostly thick brushy, low rocky, sandy land, most of the mile apparently subject to inundation from the San Gabriel River. Note: The streams noted on the last mile being branches of the San Gabriel River and mere gullies in dry weather, strictly speaking, are not, in my opinion, worthy of notice, issuing from, and returning to the main river.

x Stopped here by heavy rains, and high water.

22nd. Dec. 1852.

West 6th. mile on South Bdy. of T 1 N, R. 10 W.

- 17.00 To stream (periodical) swift current, rocky bottom 18 in. deep, course
S.W.
18.00 Cross stream, high water, banks 4 ft. high, a branch from the San
Gabriel River.
40.00 Charred oak stake and charred $\frac{1}{4}$ Sec. post of pine
From which bears

Ex. lines T 1 S, R. 10 W, S. B. M. & T 1 N, R. 10 W., S. B. M.

Scrub oak N $28\frac{1}{2}^{\circ}$ E 212 lks. dist. 4 in. dia

Swamp dogwood, S $48\frac{1}{2}^{\circ}$ E 92 lks. dist. 3 in. dia.

80.00

Set charred oak stake and charred oak post, 6th. mile post, in mound of earth to T 1 N, R. 10 W. S 31, T 1 N R. 11 W.

See 36, T 1 S. R. 10 W., S 6 T 1 S R 11 W S 1

From which bears the center of 4 pits—N 45° E 11 lks., S 45° W 11 lks., N 45° W 11 lks., S 45° E 11 lks.

Scrub oak, S 34° E 84 lks. 4 in. dia.

No other bearing tree convenient

Planted 4 olive seeds.

First 18 chs. rocky and sandy, low, poor, brushy scrub—overflows in high water, apparently from 1 to 2 ft. residue level 3rd.

Scrub oak, wild sage bushes, cedar swamp dogwood, prickley pear.

Note—The scrub, commencing at 69 chs 20 lks. on the 2nd. mile on South Bdy. of T 1 N, R. 10 W. is almost invariably a thin sandy, rocky surface, interspersed with gullies.

27th. Dec. 1852.

We, Wm. Murlock and Geo. Hansen 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 length of all lines, that we will assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of the ~~South, East and West~~ South, East and West Bdy. lines, —Tp. 1 S, R. 10 W, S. B. M.

Wm. Murlock, Chainman

Geo. Hansen, Chainman.

Subscribed and sworn to before me this 15th. day of August 1853.
W. G. Dryden, Justice of Peace.

We, Rich. L. Northrup and Jacob Bell do solemnly swear that we will well and truly perform the duties of 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 South, East and West Bdy. lines of T 1 S, R. 10 W. S. B. M.

Rich. Northrup, Moundman

Jacob Bell, Moundman

Subscribed and sworn to before me this 15th. day of August, 1853.
W. G. Dryden, Justice of the Peace.

I, Julius Weyse, do solemnly swear that I will well and truly perform the duties of flagman, according to instructions given me, and to the best of my skill and ability, in the survey of the South, East, and West Bdy. lines of T 1 S, R. 10 W., S. B. M.

Julius Weyse, Flagman.

Subscribed and sworn to before me, this 15th. day of August 1853.
W. G. Dryden, Justice of the Peace.

Ex. lines T 13, R. 10 W., S. B. M. & S. B. T. 1 N, R. 10 W., S. B. M.

W. B. T. 1 S, R. 10 W., S. B. M.

South on West Bdy. of Sec. 6 (of record) Var. 13°45' East
13.50 Dry bed of arroyo, course S 46°E
26.00 Over same
26.75 Enter another arroyo
31.50 Over same
37.00 Arroyo S. W.
39.00 Over same
40.00 Set $\frac{1}{2}$ Sec. post and charred stake,
From which bears
A Sycamore, 6 in. dia. S 37 $\frac{1}{2}$ °W 648 lks. dist.
A dogwood, 4 in. dia S 49°E 309 lks. dist.
51.00 Across Arroyo, 4 chs. wide, course S 10°W
57.00 Arroyo bed of rubbish, rock, course W.
60.50 Across same.

63.50 To the dry portion of the bed of the river
79.50 To water, course S 72°W
80.00 Across water—set Sec. post and charred stake in witness mound,
8 chs. South of true corner
From which bears
A dogwood, 4 in. dia. N 9 $\frac{1}{2}$ °E 103 lks. dist.

South on West Bdy. of Sec. 7
3.00 Stream 6 lks. wide
5.50 To water of Rio
6.50 Over same (9 in. deep 5 miles per hour.
7.50 South bank
14.00 Arroyo S. W.
19.50 South bank of same
30.00 Arroyo S 70°W
31.00 Over same
40.00 Set $\frac{1}{2}$ Sec. post and charred stake
From which bears—
A cedar 4 in. dia. S 75°E 21 lks. dist.
A dogwood 6 in. dia S 44°W 32 lks. dist.
55.00 Arroyo S 53°W
60.00 Over same
69.50 Arroyo S 56°W
75.00 Across dry arroyo
77.81 Dogwood tree 3 in. dia. on line

W.B. T 1 S, R. 10 W., S.B.M.

80.00 Set 2nd sec. post and charred stake in mound. Cor. of 7 and 18
From which bears
A dogwood, 8 in. dia. N 60°W 100 lks. dist.
Soil sandy and covered with a monte of mountain cedar, dogwood and
chemical.

South on West Bdy. of Sec. 18.

6.50 Across road to Los Angeles, course N 52°W
16.50 Across arroyo S 15°W
40.00 Set 1/2 Sec. post and charred stake in mound
From which bears

An elder, 6 in. dia. S 70°E 158 lks. dist.
An elder 8 in. dia. N 41°W 235 lks. dist.

80.00 Set Sec. post and charred stake in mound, cor. to Secs. 18 and 19
Soil 3rd. rate with scattering timber and dense chaparral.

South on ^{west} Bdy. of Sec. 19.

20.00 Leave scattering timber and enter open prairie
40.00 Set 1/2 Sec. post and charred stake in mound
60.50 Across high slough, 50 lks. over and 4 ft. deep, at right angles
64.50 Enter east end of a patch of prickly pear
72.00 Leave same
75.00 Across old sanja at right angles
80.00 Set Sec. post and charred stake in mound - Cor. to Secs. 19 and 30
Soil 3rd. rate up to last 5 chs.

South on West Bdy. of Sec. 30

12.00 Cross ancient sanja and enter mustard and clover
40.00 Set 1/2 Sec. post and charred stake in mound
54.00 Across road to Los Angeles, course S 75°W
80.00 Set Sec. post and charred stake in mound, corner to Secs. 30 and 31
Soil 1st. rate
Prairie, with clover and mustard.

South on West Bdy. of Sec. 31

30.00 Cattle trail S.W.
31.00 Leave mustard
40.00 Set 1/2 Sec. post, mound and charred stake, in mound
80.00 Set Township corner post and charred stake in mound.
Cor. of Tps. 1 and 2 S, Rs. 10 & 11 W.

S.B.T 1 S,R.10 W.,S.B.M.

East on random line on the South Bdy.of Secs. 31,32,33,34,35 and 36,setting temporary mile and $\frac{1}{2}$ mile posts and intersect the Eastern Bdy.at 314 lks.north of true corner 6 miles and 6 links Therefore the correction will be 6 links East and 52.3 South per mile.

True South Bdy.

West on South Bdy.of Sec. 36

13.56 Dry arroyo course South d -90
24.06 Dry arroyo
40.00 Set $\frac{1}{2}$ Sec.post and charred stake in mound at S.W.side of hill
45.06 Ravine taking South - d 50
47.56 Ridge - A-40
49.56 Gulch
53.06 Gulch
59.56 Ravine course South - d-40
65.06 South slope of ridge- a- 60
70.00 Ravine d- 40.
75.56 Ravine d- 80
80.00 Set Sec.post and charred stake in mound on South slope of Ridge.
Cor.to Secs.1--2-35 and 36
Soil 2nd.rate
Hilly and covered with sage.

West on South Bdy.of Sec. 35.

5.50 Ravine - d- 60
11.06 South slope of ridge - a- 40
27.06 South slope of ridge
30.06 Ravine course South - d-120
35.06 South slope of hill a- 40
40.00 Set $\frac{1}{2}$ Sec.post and charred stake in mound on South face of hill
45.06 Lime stone gulch d- 50
48.06 Gulch
49.06 Ridge a- 60
58.06 Ridge
62.56 Ravine
66.06 Ravine
73.56 Ravine N 50°W
80.00 Set Sec.post and charred stake in mound of rocks and earth-pits on South side-ne trench-near head of gulch and mostly surrounded by perpendicular walls of conglomerate rock,apparently of igneous origin.
Cor.of Secs.2-3-34-35
Hilly,wild oaks on last $\frac{1}{2}$ mile.

West on South Bdy.of Sec.34

2.00 Bluff - a-100
7.50 West slope of hill
12.56 Ravine, course southerly - d-90
17.56 South slope of ridge - a- 50
28.56 Arroyo taking South
31.06 Arroyo taking south
39.06 Top of ridge - a-60
40.00 Set $\frac{1}{4}$ Sec.post and charred stake in mound.
45.06 Base of hill - A-60
73.06 Cattle trail N.W.
80.00 Set Sec.post and charred stake in mound. Cor to Secs.3-4-33-34
First $\frac{1}{4}$ mile hilly - 2nd.undulating.
Soil 2nd.and 3rd rate.

West on South Bdy.of Sec.33.

10.06 Across slough, course West
40.00 Set $\frac{1}{4}$ Sec.post and charred stake in level mound
70.06 Dry slough, course S 60°W
80.00 Set Sec.post and charred stake in mound. Cor. to Secs.4-5-32-33
Soil 1st.rate.

West on South Bdy, of Sec.32

40.00 Set $\frac{1}{4}$ Sec.post and charred stake in mound.
70.06 Dry slough, course S 60°W
80.00 Set Sec.post and charred stake in mound. Cor. to Secs.5-6-31-32
From which the house of Senor Workman bears S 18 $\frac{1}{2}$ °W
E.and W.walls of old Mission granaries (now in ruins) as follows-
S 22 $\frac{1}{2}$ °W, S 17 $\frac{1}{2}$ °W, S 19°W, S 6 $\frac{1}{2}$ °W, S 1°W and S 3°E
Soil 1st.rate.

West on South Bdy.of Sec.31

25.06 Head of small gulch
32.00 Stock trail N 56°E
36.56 Road S. 35°W
40.00 Set $\frac{1}{4}$ Sec.post and charred stake in mound
80.06 To cor.of Tps.1 and 2 S.Rs.10 and 11 W.
From which bears
House S 35 $\frac{1}{2}$ °E.and old Mission Grauan Walls-S 69°E and S 71°E not
being able to get former view)House of Don Juan Roland,bears S.
41 $\frac{1}{2}$ °E.and Mr.Reid S 45 $\frac{1}{2}$ °E.Ranchito of Senor Workman S 82°W and S.E.
corner of field S 42°E.and S.W. do- S 30° E.

W.B.Tl S,R.9 W. S.B.M.

South on West Bdy.of Sec. 6. Var.13°45'East
20.00 Gravelly bed of dry arroyo 75 lks.wide at right angles
40.00 Set $\frac{1}{4}$ Sec.post and charred stake
From which bears
An oak,26 in.dia.S 87°W 143 lks.dist.
An oak S 82°W 276 lks.dist.
67.00 Sandy bed of dry arroyo,course West
72.00 Across same and enter sage brush and chemical
80.00 Set Sec.post and charred stake in mound-Cor.to Secs. 6 and 7
Soil 1st. $\frac{1}{4}$ mile 2nd.rate,last $\frac{1}{4}$ mile 3rd.rate
Live oak and Sycamore with Cactii and sage.

South on West Bdy.of Sec.7
12.50 Bed of arroyo
15.00 Across same
30.00 Leave all timber and chaparral save sage
40.00 Set $\frac{1}{4}$ Sec.post and charred stake in mound
78.50 Road course S 87°W
80.00 Set Swx.post and charred stake in mound,cor.to Secs.7 and 18
Soil 3rd.rate
Prairie with sage and mesin weed.

South on West Bdy.of Sec.18
2.50 Over slough,course S 60°W
9.00 Trail course S 40°W
32.00 Small arroyo S 82°W. *d 50*
34.00 Across road S 72°W
40.00 Set $\frac{1}{4}$ Sec.post and charred stake in mound- a 12
80.00 Set Sec.post and charred stake in mound,cor.to Secs. 18 and 19
Soil mostly 3rd.rate.
Prairie

South on West Bdy.of Sec.19
1.00 To north bluff of Canada,40 ft.deep-course S 68°W
3.00 Across dry arroyo
30.50 To south bluff of same canada
32.55 Over gulch
40.00 Set $\frac{1}{4}$ Sec.post and charred stake in mound
44.00 Gulch,course N 82°W.
48.00 Gulch,12 ft.deep,course N 70°W
67.50 Gulch,course N. 15°W

W.B.T 1 S ,R.9 W.S.B.M.

77.00 Ridge N 20°W - a 30
80.00 Set Sec.post and charred stake in mound.Cor.to Secs.19 and 30
Broke a prairie and 3rd.rate soil.

South on West Bdy.of Sec.30
3.50 Gulch course N 18°W
27.00 Bluff of ravine a 70
30.00 Across gulch- d. 20
38.00 Gulch N 11°E
40.00 Drove $\frac{1}{2}$ Sec.post and charred stake
From which bears
A sycamore- N 1°W 583 lks.dist.
A sycamore 22 in.dia. N 15 $\frac{1}{2}$ °E 296 lks.dist.
46.50 East slope of ridge- a 60
48.00 Gulch - d 40
53.00 East slope of ridge- a 80
55.50 Gulch making East - d 40
57.50 East slope of ridge - a 30
59.00 Ravine course East - d 10
62.50 Walnut 4 in.dia.on line - a 20
67.50 Across deep ravine,course N 20°E,enter patch of live oaks,in which
there is a Sulphur spring (small)
70.00 Leave live oak
80.00 Set Sec.post and charred stake in mound,cor.of Secs. 30 and 31
Soil 2nd.rate with wild oats.

South on West Bdy.of Sec. 31.
5.50 Center of ravine N 45°W
24.00 Height covered with oats - a 200
25.50 Trail East- d 12
31.00 Spur- d 40
37.50 Deep ravine,course S 68°E d 150
40.00 Set $\frac{1}{2}$ Sec.post and charred stake in mound- a 40
44.00 Trail on E.slope of ridge S 70°E- a 60
50.50 Gulch d-40
57.50 Gulch -course S 85°E-d 80
61.50 Gulch d 30
68.00 Ravine and trail N 72°E a 15
74.00 Sage hill- a 80
78.00 Ravine course West - d 60
80.00 Set Tp.post and charred stake in mound,corner of Tps. 1 and 2 S.
Rs.9 and 10 W. a 40
Same as last mile.
