

DEPARTMENT OF THE INTERIOR
Office of U.S. District Cadastral Engineer
145 Sansome St., San Francisco, California

December 10, 1925

I, A. C. Horton, Jr., U. S. Cadastral Engineer, for California, do hereby certify that the annexed transcript of the field notes of the survey of the south boundary of Township Seven North, Range 15 West, San Bernardino Base and Meridian, as executed by C. A. Ensign, U. S. Deputy Surveyor, under his contract No. 50, dated May twenty eighth 1889, is a true and literal exemplification of the said field notes which are on file in this office.

(Signed) A. C. Horton, Jr.

United States District
Cadastral Engineer for
California

	R. 16 W.								
	R. 15 W.								
T. 7 N.	36	31	32	33	34	35	36	31	
T. 6 N.	1	11	9	8	6	4	2	1	6
	1	6	5	4	3	2	1	1	6

E. B. T. 7 N., R. 15 W., S. E. M.

South 0° 26' East on true line between sections 36 and 36
(Being the course found in this range line as established
by Deputy Norrus North of lake)

Variation 14° 50' East

x x x

80.00 Brow of spur bearing northwest which is prolonged
North west as ridge and divide between Bear Trap Canon
and Elizabeth Lake +200
Set stone 20x10x5 inches 15 inches in the ground for
corner to townships 6 and 7 north, Ranges 14 and 15
West marked with 6 notches on each edge, north, south,
east and west and township 7 north, on northeast face;
and township 6 north range 15 west, on southwest face;
raised mound of stone 2 feet high, 3 feet base, alongside.
Land mountainous.
Soil first and second rates.
Timber scattering oaks and occasionally pine.
Dense brush.
80.00 chains mountainous and brushy lines.
June 2, 1898

Thence
West on true line of south boundary section 36.
Variation 15° 00' East
Change of variation caused by unknown local attraction
0.75 Descend west slope of mountain spur or ridge bearing
Northwest, which is prolonged westerly in main divide.
Through thick brush
10.25 Arroyo in bottom main branch Bear Trap Canon course N.W. -450
Enter timber openings
Ascend
12.85 Point spur bears N. N.W. +175

S. E. T. 7 N., R. 15 W., S. E. M.

14.80	Arroyo Bottom branch Bear Trap Canon Course N.	-100
15.60	Top of ridge bears N.	
20.60	Top of swell on north side mountain.	+80
23.00	Ravine bears N.	-30
25.60	Ridge bears NNW.	
	Enter heavy brush	+25
35.00	Ravine bears N.	-20
39.00	Top of ridge or swell in mountain bears NW,	+20
40.00	Set stone 19x12x5 inches 12 inches in ground on westerly slope of mountain ridge for quarter section corner marked 1/4 on North face. Raise mound of stone 1½ feet high 2 feet base alongside.	
40.90	Arroyo bottom of ravine course NNW.	-100
44.00	Ridge bears N.	+60
49.50	Foot of mountain Enter bottom of Bear Trap Canon bears south 45° East.	
49.75	Creek bed dry, bearing S.W.	
51.00	Across bottom of canon, bears S.W. Ascend obliquely over broken slope of mountain, through open brush.	
57.00	Ridge bearing S.	+200
74.00	Ridge descending southerly.	+200
75.00	Bottom of ravine 40 feet deep course S.	
78.65	Rocky ridge bears south 8° West slopes 30° Set W. C., a stone 24x7x7 inches in mound of stones and bedrock for witness corner to the corner to sec- tions 35 and 36 in south boundary of this township marked with 1 notch on east and 5 notches on west edges and W.C. on southwest faces raised mound of stone 1½ feet high 2½ feet base at south side of corner.	+100

S. B. T. 7 N., R. 15 W., S. B. M.

Also imbedded a stone 19x5x4 inches against north side of first stone and marked W. C. on top end.
80.00 Point for section corner falls on crumbling slope of rocky surface, unsuitable to retain corner.
Land mountainous.
Soil second and third rates.
Some scattering timber in ravines of "Bald Mountain" South of Bear Trap Canon which is generally covered with dense brush, north of canon the slopes, bear mostly open greasewood with sprinkling of bee sages.

April 8, 1898

Amended June, 1898

Mountainous land 80.00 chains

West on true line of the south boundary of section 35.

Variation 15° 00' East

As the mountain side forward is broken and precipitous slopes, making measuring by chain difficult and impracticable, I proceed by the following triangulation:

S. E. T. 7 N., R. 15 W., S. E. M.

From the Witness corner.

Set flag due West at "B" on spur bearing southward also set flags on same ridge at X and Y; from W. C. X bears S. $55^{\circ} 06'$ W. and Y bears S. $69^{\circ} 16'$ W. X and Y align with B, which bears N. $33^{\circ} 29'$ W., distance between X and Y is 5.00 chains measured with a standard steel tape for a base (no longer base could be found, on level and suitable ground for exact chaining). Then the distance triangulated from W. C. to B is 23.88 chains, which, less 1.35 chains distant from W. C. to section corner, gives 22.53 chains run in second mile. From section corner descend broken, precipitous rocky slopes.

8.00	Bottom of steep ravine on south side of mountains bearing West of South.	-	-120
	Ascend steep rocky slopes.		
13.50	Top of south point of brushy spur.		-100
16.50	Valley bearing S.		-80
	Ascend.		
22.10	Set post in mound of stones on brow of mountain marked W. P. for witness point, 43 links east of triangulation point.		
24.00	Top of rocky ridge bears north and south about 50 links south of mountain divide bearing north of east and west.		+100
	Along rolling mountain top, a narrow divide through heavy brush.		
27.50	At head of arroyo bears NE. into Maxwell Canon at about 10 chains distant which takes northwesterly course.		
31.50	Just south of hilltop and along south edge of dividing ridge.		
40.00	Set a stone 30x15x6 inches, in shallow earth and bed-rock on east slope of shoulder of mountain spur,		

S. B. T. 7 N., R. 15 W., S. B. M.

- Bearing south for quarter section corner marked $\frac{1}{4}$
on North face; bounded the corner with stones and
earth.
- Pits impracticable.
- Through short scrubby brush.
- 41.00 Top of ridge bearing North and South,
+40 and along south edge of divide.
- 45.00 Ascend broad mountain tops bearing S. of W.
- 54.00 A summit of same. +50
- 72.00 Cross divide now bearing south of west.
- 73.00 At head of arroyo bearing northeast branch of Maxwell's
Canon about 10 chains away and about 200 feet above it.
Through heavy brush.
- 78.50 North brow of broad top of mountain, whence broad spur
descends to north.
- 80.00 Set stone 18x8x4 inches 12 inches in the ground for cor-
ner to sections 34, 35, 2 and 3, in south boundary of
the township marked with 2 notches on east and 4 notches
on west edges; dug pits 18x18x12 inches in each section
5 $\frac{1}{2}$ feet distant and raised a mound of stones and earth
2 feet high 4 $\frac{1}{2}$ feet base, alongside.
- Land mountainous.
- Soil generally poor - third and fourth rates.
- No timber; heavy brush.
- 80.00 chains mountainous and brushy lines.
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- West on the true south boundary of section 34.
- Variation 14° 50' East
- Through heavy brush.
- 1.00 Brow of mountain bears north and south.
- Spur bears North west.
- Descend into timber.

S. B. T. 7 N., R. 15 W., S. B. M.

5.75	Arroyo in bottom of ravine, course NW. Along north slope of mountain.	-125
8.00	Ridge bears N. Descend.	+30'
14.90	Arroyo in bottom of ravine course NW. about 2.50 chains above junction.	-200
17.00	Top of ridge bears NNW.	+40'
24.00	Arroyo in bottom of ravine bears N. 10° W.	-250'
28.00	Ridge of spur bears NNW.	+100
33.75	Arroyo in bottom of ravine bears NW.	-125'
38.00	Arroyo bears NW.	
39.65	Arroyo bears NNE. Junction about 1.00 chains below.	-50
40.00	Set stone 20x12x3 inches 15 inches in the ground for quarter section corner marked $\frac{1}{4}$ on North face and raised a mound of stones $1\frac{1}{2}$ feet high $2\frac{1}{2}$ feet base at North side, from which corner A Manzanita 8 inches diameter bears North $67\frac{1}{4}$ ° West 26 links distant marked $\frac{1}{4}$ S. B. T. Ascend brushy slope of mountain.	
52.00	Top of mountain ridge bearing North, at point about 9.00 chains NE. on summit.	+350
56.50	Valley bears NNW.	-60
58.50	Ridge bearing N. about 6 chains north of peak.	+20
61.80	Arroyo in broken valley bears N.	-25
65.00	Top of spur bearing N. Along N. rolling side of mountain.	+100
68.75	Top of main spur bearing N. Descend steep rocky slope through timber openings.	
71.60	Precipitous rocky arroyo from SSE. to N.	-125'
72.50	Top of spur of boulders bearing N.	+25
73.20	Rocky arroyo course N. 10° W. Along N. slope of mountain.	-35
75.00	Top of swell of mountain, sloping N.	+30

S. B. T. 7 N., R. 15 W., S. B. M.

- 78.70 Cross reef of rocks at surface of ground bearing N. and S.
- 80.00 Set stones 24x12x5 inches, 18 inches in the ground for corner to sections 33, 34, and 3 and 4 in south boundary of township marked with 3 notches on east and west edges raised a mound of stones 3 feet high 3½ feet base at east side; from which
- A white oak 8 inches diameter, bears S. 43½° E. 28 links distant, marked S 3 T 6 S R 15 W. B. T. and
- A white oak 8 inches diameter bears N. 85° E. 27 links distant, marked S 34 T 7 N R 15 W. B. T.
- Land mountainous.
- Soil first, second and third rates.
- Considerable oak timber and some pines and firs.
- 80.00 chains mountainous and brushy lines.

July 1, 1898

West on South boundary of section 33.

Variation 15°00' E.

- 1.50 Begin descent on NW. slope of mountain.
Leave timber through brush.
- 9.00 Arroyo course NW. -225
- 9.50 Top of bluff +20 and along rolling side of mountain.
- 15.25 Ridge in North side of mountain. +50
- 20.00 Ridge of stony spur bearing NW. 9 chains.
- 34.00 Arroyo in bottom of ravines, bearing E. -450
Ascend in heavy brush.
- 40.00 Set stone 18x12x4 inches 12 inches on the ground for quarter section corner marked ¼ on North face and raised a mound of stones 1½ feet high 2 feet base at south side.
- 40.60 Cut X on top of NE corner of boulder cropping 30x24x8

South Boundary - T. 7 N., R. 15 W., S. B. M.

inches out of the ground on northeast slope of mountain.

49.50	Top of ridge bearing N.	+225
50.40	Rocky gorge bearing NE.	-25
	Ascend steep rocky slope.	
53.00	Top of rocky ridge bearing NE.	+100
56.00	Valley sloping N.	-50
64.20	Top of spur bearing N.	+50
70.00	Arroyo in bottom of ravine bearing N.	-100
	Ascend rocky slope.	
74.00	Rocky ridge bearing N. 15° E.	+125
78.25	Descend bluff of large boulders on west slope of mountain.	
80.00	Set stone 33x16x4 inches 17 inches in the ground in bedrock, for corner to sections 32 and 33, and 4 and 5 on south boundary of township marked with 4 notches on east and 2 notches on west edges; also T. 7 N. on north face and R 15 on top end. Raised a mound of stones 2 feet high 3 feet base alongside. Land mountainous. Soil first, second and third rates. No timber on line, some in head of ravine south of the line. 80.00 chains mountainous and brushy lines.	

July 2, 1898

West on the south boundary section 32.

Va. 15° 40' E.

Change of variation. Cause unknown.

Continue to descend steep brushy and stony slope.

7.00	Arroyo in ravine from South South east to nearly North.	-220
12.00	Top of ridge sloping NNW.	+100
	Descend.	

15.00	Brushy valley bearing NNW.	-100
17.00	Top of ridge bearing NW.	+30
	Descend.	
23.00	Ravine bearing NW.	-75
23.25	Ridge bearing NW.	+30
	(variation 15° 30' East)	
	Descend into the lake canon.	
27.00	Foot of mountain bearing N. and SW.	
	Leave oak brush enter willows in river bottom.	-75
30.50	Bluff of bank cut by floods of 1890.	-10'
32.00	Wagon trail bearing NE. & SW.	
32.25	Spring run just below the present head of raising of water. Course SW.	
33.50	Across bottom leave willows and enter oak brush.	
34.50	Top of S. end of spur bears SW.	+20
36.00	Foot of ridge into ravine from North at its junction with canon.	-25
39.00	Drop 15 feet into new bottom of canon bearing east and west.	-15
40.00	Set stone 23x12x4 inches, 16 inches in the ground for quarter section corner marked 1/4 on north face. Bounded corner with stones; from which A Black Oak 4 inches diameter standing on the bluff of new channel and at south point of spur bears south 11° west marked 1/4 S.B.T. at 67 links distance. This corner is 1.00 chains North of bend in present creek (water running) from east, south east to south- west.	
40.60	Regain bank, old bottom.	+15
40.80	Ascend spur.	
42.50	Top of spur bearing south.	+30'
44.00	Arroyo in ravine. Course S.	-35
46.70	Top of spur bearing S.	+40

S. E. T. 7 N., R. 15 W., S. E. M.

49.70	Arroyo in ravine. Course S.	-35
53.60	Top of spur bearing S.	+50
58.00	Arroyo in ravine. Course SE.	-50
63.00	Top of spur bearing S.	+50
65.50	Arroyo in ravine. Course S.	-40
69.75	Top of spur bearing S.	+60
71.50	Arroyo in ravine. Course S.	-50
75.75	Top of spur bearing S.	+20
77.25	Arroyo in ravine course S.	-50
79.35	Top of ridge bears S. Soon SSE.	+80
80.00	Set stone 24x8x6 inches, 12 inches in the ground and bedrock on west slope for corner to sections 31 and 32, and 5 and 6 in south boundary of the township marked 5 notches on east and 1 on west edges and raised a mound of stones 2 feet high 2½ feet base alongside.	

Pits impracticable.

This corner is about 1.50 chains south of shoulder of spur in hill on long divide bearing west south-west.

Land mountainous.

Soil second, third and fourth rates.

No timber, except a few willows in the lake canon.

The hills are mostly brushy.

80.00 chains mountainous or brushy lines.

July 11, 1898

West on the south boundary of section 31.

Variation 15°05' East

Causes of variation unknown.

3.00	Arroyo in steep valley. Course S.	-75
5.40	Top of spur bearing SSE.	+90
7.50	Arroyo in steep valley. Course S.	-60
9.75	Top of spur bearing S.	+75

Along South slope of main spur.

S. E. T. 7 N., R. 15 W., S. E. M.

12.00 Valley. Course S.
13.20 Ridge bears S.
17.25 Top of spur bearing nearly W.
19.50 Descend from same now bearing SW.
27.70 Arroyo bottom of branch canon bearing southwest. -200'
28.60 Ascend south point of mountain spur.
33.75 Top of south point of spur bearing south. +70
36.00 Arroyo in branch canon bearing southwest at
top of cascade falling into Lake Canon. -60
36.90 Top of south point of spur. +50
39.50 Bottom of Elizabeth Lake Canon,
North margin of wash bearing SE and NW.
Leave brush and enter sycamore opening.
40.00 Set stone 26x12x4 inches, 20 inches in ground,
for quarter section corner, marked 1/4 on north
face, from which
A Black Oak 7 inches diameter bears North $24\frac{1}{4}^{\circ}$ east
55 links distant marked $\frac{1}{4}$ S B T and a
Sycamore 20 inches diameter bears North $60\frac{1}{2}^{\circ}$ West
64 links distant marked $\frac{1}{4}$ S B T
No trees available in section 5.
41.25 Enter new channel of branch canon from northeast 6
feet deep and 75 links wide (in old wash) 1.00 chains
south from high point of rocks.
43.00 Drop 12 feet down from old surface to new wash, bottom
of Lake Canon bearing East - South East and West - North
West.
45.65 Foot of precipitous rock side of mountain spur and river
bottom bearing SSW.
46.35 Top of rock ledges. +50
Continue ascent.
47.60 Top of first spur bearing SSW. +30
49.50 Across sag to second spur bearing south SW.
Descend.

S. B. T. 7 N., R. 15 W., S. B. M.

51.25	Foot of mountain spur bearing S.	-70
51.65	New bank in old wash 10 feet deep bearing NNW. (New bottom)	
59.00	Regain old bottom.	+12
59.90	Foot of spur bearing SSW. Ascend.	
60.85	Top of South point of spur bearing SW.	+30
62.30	Begin descent of spur.	
62.75	Foot of spur South Old bottom.	
63.30	Drop 12 feet into new bottom of river bearing west southwest.	
66.65	Regain old bottom bank 15 feet high. Course Southwest.	
70.75	Reenter new bottom bearing WSW.	-12
75.85	Regain old bottom +15 bearing S.	
NOTE:	The banks of the new bottom were formed by the action of flood waters in the old wash and are perpendicular bluffs of sand alluvials.	
81.75	Foot of mountain trending from northeast to south west and bending to west and north margin of river bottom at small grove of young sycamores.	
84.85	Intersect west boundary of the township. Set a mottled stone 24x6x6 inches into a hold out 10 inches deep in the steep slope of decomposing granite on north side of mountain for corner to townships 6 and 7 north range 15 and 16 west, San Bernardino Meridian marked with 6 notches on each edge and T. 7 N. on NE. R. 15 W. on SE. faces, from which A Manzanita 15 inches diameter bears North $8\frac{1}{4}^{\circ}$ East distant 9 links, marked S 31 T 7 N R. 15 W. B. T. and the north stem of a quadruple sycamore 30 inches diameter bears South $18\frac{1}{4}^{\circ}$ West 212 links distant.	

S. E. T. 7 N., R. 15 W., S. E. M.

(Being 75 links south of foot of mountain, marked
S. 6 T. 6 N., R. 15 W., E. T.

No other tree within distance.

Land, mountainous and broken bottom of Elizabeth Lake
Canon.

Soil second, third and fourth rates.

Timber, scattering sycamore in bottom of canons and
a few small oaks and considerable brush on mountain
spurs.

Mountainous land, 84.85 chains.

April 30, 1898

July 11, 1898

G. A. Ensign U. S. Deputy Surveyor

Under his Contract No. 50, dated May twenty
eighth, 1889.
