



Los Angeles - Kern County
 Boundary Survey by
 Reynolds & Orth 1889.

COPY.

Field Notes of the Boundary Line
between

Los Angeles and Kern Counties

Survey commenced May 17th, 1869 and concluded June 9, 1869 by order of the Board of Supervisors of said counties and executed by George W. Orth, County Surveyor for Kern County and Wm. R. Reynolds, Deputy County Surveyor for Los Angeles County.

Having ascertained the variation of the magnetic needle to be 14°41' East by an observation taken at Cowspring on May 16th, 1869 at the hour of 9.30 P.M. when the angle formed by a vertical line passing through the "pole star" and the Star Alioth of the constellation Ursa Major and the north end of the magnetic needle was found to be 14°41' E. - commenced at the North East Corner of the adobe ruins around Cowspring in the Rancho La Libere and ran according to the true meridian the variation of the magnetic needle being 14°41' East.

Course.	Chain.	
N. 18° W.	7.30	North 18° W. and at Cross Fort Tejon and Lake Elizabeth Road Courses N. 70° W.
	16.95	Cross Line of Telegraph course N. 75° W.
	61.05	To Quarter section stake on west boundary of Sec. 18, T.8 N., R.16 W. of the San Bernardino Meridian and intersection stake on north boundary of Rancho La Liebre; thence along range line north and at
North	40.00	to stake and mound cor. to Secs. 13 & 12, T.8 N. R.17 W. and Secs. 7 & 8, T.8 N., R.16 W.
	120.00	To stake and mound cor. to Secs. 1 & 12., T. 8 N., R.17 W. and Secs. 6 & 7, T.8 N. R.16 W.
	200.00	To stake & mound cor. to Tps. 8 & 9 North Ranges 16 & 17 W. at which set Cedar Post 5"x5" and L.A. on south side and K on north side.

and 4 feet long and marked for Township corner.

Established the same as the initial point of the survey. Raised a mound of stones and earth in accordance with instructions of the U.S. Surveys in running boundary lines.

At this point the respective surveyors and acting commissioners of the boundary survey for the aforesaid counties consulted as to the best method of continuing the boundary lines west with the proper guards and checks against any errors that might arise from the diurnal variation of the magnetic needle or from local attraction. Thereupon it was agreed that one surveyor should run each alternate six miles by fore and back sights on the true boundary line and the other surveyor should run traverse lines according to the true meridian. Geo. W. Orth & party commenced the boundary line for the first six miles and Wm. R. Reynolds and party ran the traverse line. Having established the initial point of the survey, the remainder of the 17th, May & 18th May we diverted to obtaining the requisite post & stakes.

At 3-17 A.M. on the morning of May 19th, 1869 found the variation of the magnetic needle to be $14^{\circ}40'30''$ East by an observation of the Eastern Elongation of the North Star.

Course	Chains.	The boundary line was run as follows:
		Commenced at stake cor. to Tps. 8 & 9 N.R. 16 & 17 W. and ran along the Northern Boundary of Tp. 8 North according to the true meridian the variation of the magnetic needle being $14^{\circ}41'$ East, West and at
West	80.00	set mounds & pits from which Cowspring bears $S. 21^{\circ} E.$
	139.11 139.00	Cowspring bears $S. 31\frac{1}{2}^{\circ} E.$
	160.00	Set mounds & pits as per instructions
	190.00	To edge of Canada Course $S. 29^{\circ} W.$
	227.00	To west edge of Canada Course $N. 29^{\circ} W. \& S. 70^{\circ} E.$ and foot of steep bank
	229.50	To top of steep bank.
	240.00	Set mound & pits as per instructions.
	257.00	To east bluff of Arroyo course South & commencing 10 chains north of the line.
	259.35	To middle of Arroyo
	261.00	To western bank of Arroyo
	266.50	Ascend hill & thence along side of hill
	279.50	Leave hill and thence along level plain.
	320.00	Set mound & pits as per instructions.
	363.00	Cross small stream course $S. 40^{\circ} E.$
	369.00	Tree on east side of stream distant 50 lks. South Course $S. 30^{\circ} E.$
	369.35	Tree on west side of Stream 50 lks. north
	400.00	Set mounds & pits as per instructions.
	441.75	Cross stream course $S. 45^{\circ} E.$ thence over rolling hills
	470.50	Cross spring bank $S. 45^{\circ} E.$
	475.00	Cross spring branch Course $S. 45^{\circ} E.$
	480.00	Set charred chalked notched post $5" \times 5" \times 4$ ft. long & made trench & pits as per instructions, from which the point made by traverse line 536.42 chs. in length bearing $S. E.$ 28 links distant which being less than the admissible error allowed in running boundary lines established the post on tree line and marked for corner of Tps. 8 & 9 north, Range 17 & 18 West and "L.A." on south side and "K" on north side. Land generally 2nd grazing and devoid of timber. Thence over rolling hills-variation $14^{\circ}41'$ East.
	15.00	ran west and at
	17.50	Crest of hill thence abruptly descending.
	20.50	Foot of hill.
	38.50	Cross Spring branch Course $S.$ thence ascending gradually.
	49.10	Crest of hill; thence gradually descending.
	56.50	Cross spring branch course $S.$ thence gradually ascending.
	58.25	Crest of hill; thence abruptly descending.
	63.00	Cross spring branch Course $S. 45^{\circ} E.$ thence over rolling hills
	80.00	Crest of hill; thence along elevated table land.
		Set mounds and pits as per instructions-soil well adapted for grazing, covered with a luxuriant growth of bunch grass and watered by springs.
	122.10	Cross Ravine Courses North & South
	123.25	Cross Canada Course $S. 45^{\circ} E.$ thence ascending.
	133.50	Crest of hill; thence ascending.
	140.00	Crest of hill and enter oak timber; thence through timber and descending hills.
	146.50	Cross dry stream course North & South
	160.00	Set mounds and pits as per instructions. Soil well adapted for agricultural purposes, well watered and the last quarter section heavily timbered.

Course	Chains.	
	165.00	Cross spring branch, course S. 45° E.
	169.00	Foot of steep hill; thence abruptly ascending.
	173.00	Crest of hill; thence abruptly descending.
	180.00	Cross ravine Course S. 20° E.; thence ascending
		Steep hill thickly covered with chaparral.
	185.00	Crest of hill; thence descending.
	196.00	Cross Canada Course E. & W.
	219.06	Crest of steep & rugged mountains course S.E. & N.W. thence over mountain.
	225.36	Cross Gulch Course S.E.
	228.50	Crest of mountain; thence along summit
	240.00	Set mounds & pits as per instructions. Land very poor & mountainous covered with Manzanita & cedar brush; thence over steep & rugged mountains thickly covered with scrub oak & manzanita brush.
	320.00	Set mounds & pits as per instructions.
	363.35	Crest of mountain thence alongside of mountain, gradually descending.
	400.00	Set mound & pits as per instructions on slope of mountains; thence descending
	405.23	Enter Canada "Los Encinos" or "Alisos" Course N. 70° W. thence along Canada and through scattering timber.
	463.00	Leave Canada and gradually ascending.
	480.00	Set charred, chalked & notched Oak post 5"x5" and 4 ft. long and made trenches and pits as per instructions from which the point made by traverse line through Canadas de los Azos and Los Encinos 583.00 chs. in length bearing established the post on true line and marked the same for Tps. corner 8 & 9 North, Range 18 & 19 W. and "L.A." on South side and "K" on North side from which a white oak tree 26 inches in diameter bearing S. 46° W. dist. 120 lks. & a white oak tree 27 in. diam. bearing N. 19° W. 45 lks. dist. and marked the same L.A. & K. Bdy. & from which a scrub oak on peninsula in Laguna Castac bearing N. 5 E. Soil poor and mountainous.
		Thence along side of mountains with variation 14° 42' E. ran west and at
	18.25	Scrub oak on peninsula bearing N. 22½ E.
	30.00	Enter Canada Course N. & S.
	53.00	Leave Canada & ascending slope of mountain.
	80.00	Set mounds & pits as per instructions. Soil well adapted for grazing and covered with yellow flowers "Escholsia"
	101.70	Tree on line marked on North Side "K" and South side "L.A." thence descending.
	145.00	Enter valley; thence across level plain.
	160.00	Set mounds & pits as per instructions and post on E. side of Fort Tejon & Los Angeles Road and marked "L.A." on South Side and "K" on North side.
	162.50	Cross Fort Tejon & Los Angeles Road.
	163.00	Set post on west side of road and marked as above with mounds & pits.
	184.56	White Oak 73 in. dia. on line marked "L.A." and "K"
	185.56	Ascend hill
	191.00	Over rolling hills
	215.00	Cross Ravine Course S. 45° E.
	225.00	Crest of Hill
	240.00	Set mounds & pits as per instructions. Land 1st rate; thence over rolling hills.
	320.30	Set Cedar post 5"x5"x4 feet long from which the point made by traverse line 371.24 chs. in length bearing West 2 lks. dist. & marked the same "L.A." on S.E. side & "K" on North side and "S.B." on West side and established as corner to Los Angeles, Kern & Santa Barbara Counties, from which a white oak 15 in. dia. bearing S. 20° W. 7.40 chs. dist.

S.W. 113 links dist. which being less than admissible errors

Course
West

Chains.

which is marked "S.B." "L.A." "K" & "B.L."
Raised mound & pits as per instructions.

S.17° E. 80.00
 155.00
 220.00
 240.00

Thence over mountain with variation 14°42' East
Ran south 17° East and at
Set mounds & pits as per instructions.
Gorman's house bears East
Gorman's house bears North 75° East.
Set mounds & pits as per instructions at base of steep
& rugged mountain. During the seven days the party was
engaged in running the above line there were no obser-
vation taken owing to the frequent rains & uniformly
cloudy weather. Weather very cold, violent wind & on
the 27th May 1869 at 8-46 P.M. a severe earthquake oc-
cured, vertical shock lasting 10 seconds.

No. of Miles to Western Corner 16 miles 00 chs. 30 lks.
" " " " West Boundary 3 " 00 " 00 "
" " " " Initial point 3 " 21 " 05 "

East 480.00

Upon consultation it was agreed that one party should
run random lines to the respective tp. corners & the other
should follow the true line with corrected course each
party alternating every six miles.
Geo. W. Orth & party commenced the random lines & W.R.
Reynolds & party followed on true line.
The Boundary East was run as follows:
Commenced at stake cor. to Tps. 8 & 9 N.R. 16 & 17 W. &
ran along the North boundary of Tp. 8 N., on a random
line with a variation of 14°41' East. East & at
Intersected Stake Cor. Tps. 8 & 9 N., R. 16 & 15 W. 18
lks. North. Therefore the correction will be 3 lks.
south per mile & the course S. 89°59' East.

S. 89°59' E. 25.00
 80.00
 120.00
 136.61
 150.00
 160.00
 215.00
 240.00
 320.00
 356.78
 400.00

Commenced at stake cor. to Tps. 8 & 9 N. R. 16 & 17 W. &
ran along the North Boundary of Tp. 8 North according
to the true meridian. Variation 14°41' East.
South 89°59' East and at
Enter sand patch
Set mounds & pits as per instructions.
Over rolling plain
Lone pine on mountain bears S. 35° East.
Enter cactus; thence thro' dense Cactus growth.
Set mounds & pits as per instructions.
Lone pine on mountain bears S. 30° E.
Set mounds & pits as per instructions.
Set mounds & pits as per instructions.
Lone Pine on mountain bears S. 19' E.
Set mounds & pits as per instructions.

Course. Chains.
S. 89°59' E. 480.00

Tps. Cor. stake to Tps. 8 & 9 N.R. 16 & 15 W. set charred, chalked & notched post 5"x5" & four feet long & marked for Tps. & Sec. Corner "L.A." on south side & "K" on north side & raised mound & pits as per instructions. Land very poor. Soil a compound of white coarse sand & covered with Spanish bayonet trees. By observation of the Pole Star when passing the meridian at 8.38 P.M. on May 29th, 1869 the variation of the magnetic needle was found to be 14°40' East. Ran along North boundary of Tp. 8 N., R. 15 W., with variation 14°40' E. on a random line. North 89°59' East and at Intersected Tps. 8 & 9 North R's. 15 & 14 W. 2 chs. E. & 16 lks. N. of Tp. Cor. Therefore the correction will be for the true line 200 links East & 25 links S. per mile & the corrected course East.

N. 89°51' E. 480.00

Along the North boundary of Tp. 8 N. R. 15 W. according to the true meridian the variation of the magnetic needle being 14°40' E.

East 78.00
158.00
238.00
318.00
323.00
388.50
398.00
454.50
478.00

Ran East and at
Set mounds & pits as per instructions.
" " " " " " " "
" " " " " " " "
" " " " " " " "
Leave Cactus; thence over open desert
Cross old road from Fort Tejon to Willow Spring
Set mounds & Pits as per instructions.
Enter sage brush.
Tps. Cor. stake to tps. 8 & 9 N.R. 14 & 15 W. Set charred chalked & notched post 5"x5" and 4 feet long and marked the same for Tps. & Sec. Corners and "L.A." on South side & "K" on North side & raised a mound and made trenches as per instructions. Land of a better quality than the preceding tp. but not adapted for cultivation or grazing owing to the entire absence of water. Along the North Bdy. of Tp. 8 N., R. 14 W. with variation 14°40' East on a random line. Ran North 89°50' E. and at Intersected Tps. 8 & 9 R. 14 & 13 W. 150 lks. East & 102 links North of Twp. Corner. Therefore, the correction will be for true line 150 lks. East & 17 lks. south per mile & the corrected course will be N. 89°57' E.

N. 89°50' E. 480.00

Along the North Boundary Tp. 8 N., R. 14 W. according to the true meridian with variation of magnetic needle 14°40' E. Ran North 89°57' E. East and at
Set mounds & pits as per instructions.
" " " " " " " "
" " " " " " " "
Center of small dry lake.
Set mounds & pits as per instructions.
Willow Springs bearing North 25° E.
Set mounds & pits as per instructions from which summit of large Butte bearing S. 41½ E. and West end of Willow Spring Butte bears N. 24° E.

N. 89°57' E. 78.50
158.50
238.50
299.00
318.50
359.90
398.50

Course.	Chains.	
N. 89° 57' E.	410.00	Set post on West side of Willow Spring and Lake Elizabeth Road & marked the same "L.A." on South side and "K" on North side.
	410.50	Center of road.
	412.50	Set post on east side of Elizabeth Lake & Willow Spring Road & marked "L.A." on south side & "K" on north side from which summit of small Butte bears S. 1° W. & crossing of Lake Elizabeth Road on the mountain bearing S. 23° W.
	478.50	Tp. Cor. Stake to Tps. 8 & 9 N., R. 14 & 13 W. Set charred, chalked & notched stake 5"x5" & 4 ft. long & marked for tps. & sec. corner and "L.A." on south side and "K" on North side & made mounds & pits as per instructions. Soil poor & covered with thick growth of Grease Brush & Scrub.

Along the North Boundary line of Tp. 8 N. R. 13 W. with variation 14° 40' E. on a random line.
 Ran North 89° 42' East and at
 N. 89° 42' E. 480.00 Intersected tps. Cor. 8 & 9. N.R. 13 & 12. W. 250 lks. W. & 73 lks. N. of Tp. Cor. Therefore the correction for the true line will be 250 lks. W. & 12 links S. per mile & the corrected course will be N. 89° 47' E.

Along the N. Bdy. of Tp. 8 N., R. 13 W. according to the true meridian with variation of the magnetic needle 14° 40' East.
 N. 89° 47' E. 1.00 Ran North 89° 47' East and at
 Willow Springs bear N. 7° E. & West ^{end} of Willow Spring Butte bears N. 12° E. Large Butte bears S. 4½° E. Small Butte bears S. 27½° W. & the crossing of Elizabeth Lake Road on mountain bears S. 26½° W.

29.00	Set post on W. side of Soledad Road and marked with the same "L.A." on South & "K" on North Side.
29.70	Centre of Road
31.00	Set post on East side of road marked "L.A." on South & "K" on North side.
82.50	Set mound & pits as per instructions.
86.68	Willow Springs bear N. 4½° W. and West end of Willow Spring Butte bears N. ½° W. Large Butte bears S. 40° W. Small Butte bears S. 49° W. Elizabeth Road Crossing on Mountain bears S. 31½° W. and Peak of San Antonio Mountain bears S. 45½° E.
162.50	Set mounds & pits as per instructions.
242.50	" " " " " " " " " " " "
322.50	Set mounds & pits as per instructions.
402.50	" " " " " " " " " " " "
482.50	Tps. Cor. Stake to Tps. 8 & 9 N. R. 13 & 12 W. Set charred, chalked & notched post 5"x5" and 4 feet long and marked for Tps. & sec. cor. and "L.A." on South side and "K" on North Side, made mounds & pits as per instructions. Soil poor & covered with thick growth of Grease Brush.

Along North Bdy. of Tp. 8 N., R. 12 W. Ran with variation 14° 40' East on a random line.
 South 89° 47' E. and W.

Course Chains
 S. 89°47' E. 480.00

Intersected Tps. 8 & 9 N. R. 12 & 11 W. 100 lks. E. & 141 lks. South of Tp. Corner. Therefore the correction will be for the true line 100 lks. E. & 23.5 lks. per mile & the corrected course will be S. 89°57' E.

N. 89°57' E. 79.00
 159.00
 239.00
 319.00

Along the N. Bdy. of Tp. 8 N. R. 12 W. according to the true meridian, the variation of magnetic needle being 14°40' East. Ran North 89°57' and at Set mounds & pits as per instructions.

" " " " " " " "
 " " " " " " " "
 " " " " " " " "

Land 2nd. rate on the above 4 miles & covered with scattering brush & green brush.

384.00
 399.00
 479.00

Dry bed of old lake

Set mounds & pits as per instructions.

Tp. Cor. stake to Tps. 8 & 9 N., R. 12 & 11 W.

Set charred, chalked & notched post 5"x5" & 4 ft. long which marked for Tps. & corner Sections & "L.A." on South & "K" on North Side. Made mounds & pits as per instructions. Land generally of a better quality than the preceding tps. but destitute of water.

N. 89°40' E. 480.00

Along the N. Bdy. of Tp. 8 N., R. 11 W. with variation 14°40' East on a random line.

Ran North 89°40' E. and at

Intersected Tps. 8 & 9 N., R. 11 & 10 W. 89 lks. W. & 36 lks. S. of Tp. cor. Therefore the correction for true line will be 89 lks. W. & 6 lks. North per mile & the corrected course will be N. 89°44' East.

N. 89°44' E. 80.89
 160.89
 240.89
 308.89
 380.89
 400.89
 444.39
 480.89

Along the N. Bdy. Tp. 8 N., R. 11 W. according to the true meridian with variation 14°40' East.

Ran North 89°44' East and at

Set mounds & pits as per instructions

" " " " " " " "
 " " " " " " " "

Leave dry bed of lake thence thru scattering Palmettoes

Set mounds & pits as per instructions

" " " " " " " "

Enter dry lake.

Tp. cor. stake to Tps. 8 & 9 N., R. 11 & 10 W.

Set charred, chalked & notched post 5"x5" & 4 ft. long & marked the same for Tps. & Sec. Corner & "L.A." on South & "K" on North side & made mounds & pits as per instructions.

Soil for the first 4 miles well adapted for cultivation but wholly destitute of water.

By an observation of the Eastern elongation of the Pole Star taken at 2°12" A.M. on June 4th, 1869, found the variation of the magnetic needle to be 14°36' East & along the N. Bdy. of Tp. 8 N., R. 11 W. with variation 14°36' East on a random line.

Ran south 89°42' East & at

Course Chains.
S. 89°42' E. 480.00

Intersected Tps. 8 & 9 N., R. 10 & 9 W. 175 lks. East & 76 lks. S. of Tp. Cor. Therefore the correction for true line will be 175 lks. E. & 12.5 lks. N. per mile & the corrected course S. 89°48' East.

S. 89°48' E.

24.00
49.50
78.25
108.00
118.25
132.75
158.25
188.00
190.75
238.25
253.25
318.25
340.65
368.25
398.25
437.75
448.25
478.25

Along the N. boundary line of Tp. 8 N., R. 10 W. according to the true meridian the variation of the magnetic needle being 14°36' East.

Ran South 89°48' East & at
Sandy hillocks in dry bed of lake
Cross slough 10 lks. wide.
Set mounds & pits as per instructions; thence through dry bed of lake
Slough in bed of lake
Hard clay soil in dry lake
Leave dry lake thence over sand drifts covered with scrub brush
Set mounds & pits as per instructions
Enter dry lake
Cross Alkali Lake Water 1½ inches deep
Set mounds & pits as per instructions.
Cross slough
Set mounds & pits as per instructions.
Cross dry creek Course N. & S.
Enter alkali flat
Set mounds & pits as per instructions.
Through scattering Spanish Bayonet trees.
Leave alkali Flat
Tp. cor. stake to Tps. 8 & 9 N. R. 10 & 9 W. set charred & notched stakes 5"x5" 4 ft. long & marked the same for tp. & sec. cor. & "L.A." on South & "K" on northside
made mounds & pits as per instructions. Soil definitely unfit for any agricultural purposes.

S. 89°44' E.

480.00

Along N. boundary of Tp. 8 N., R. 9 W. with variation 14°36' East on a random line.
Ran South 89°44' East & at
Intersected Tps. 8 & 9 N., Rs. 9 & 8 W. 135 lks. E. & 210 lks. south of tp. cor. Therefore the correction for true line will be 135 lks. E. & 35 lks. N. per mile & the corrected course will be S. 89°59' E.

S. 89°59' E.

20.10
78.65
92.25
158.65
193.15
234.65
238.65
239.90
318.65

Along the N. bdy. of Tp. 8 N. R. 9 W. according to the true meridian the variation of magnetic needle being 14°36' East.

Ran South 89°59' East and at
Enter Alkali flat
Set mounds & pits as per instructions.
Leave alkali flat thence thru dry lake
Set mounds & pits as per instructions.
Leave dry lake.
Over low sand hills.
Set mounds & pits as per instructions.
Leave low sand hills.
Set mounds & pits as per instructions.

Course Chains.
 S. 89°59' E. 235.90
 318.65
 355.55
 398.65
 478.65

Leave low sand hills.
 Set mounds & pits as per instructions.
 Cross dry ravine 50 lks. wide Course N. 71° W.
 Set mounds & pits as per instructions.
 Tp. Cor. stake to Tps. 8 & 9 N., R. 9 & 8 W. set charred,
 chalked & notched Post 5"x5" & 4 ft. long & marked the
 same for Tps. & sec. corner & "L.A." on South & "K" on
 North side. Made mounds & pits as per instructions.
 Land 2nd rate. Desert.

East 480.00

Along the N. bdy. of Tp. 8 N., R. 8 W. with variation
 14°36' East on a random line.
 Ran East and at
 Intersected Tps. 8 & 9 N. Rs. 8 & 7 W. 50 lks. W. & 13 lks.
 S. of Tp. corner. Therefore the correction for true
 line will be 50 links W. & 2 lks. N. per mile & the
 corrected course will be N. 89°59' East.

N. 89°59' E. 80.50
 160.50
 240.50
 320.50
 325.55
 400.50
 480.50

Along the N. bdy. of Tp. 8 N., R. 8 W. according to the
 true meridian the variation of magnetic needle being
 14°36' East.
 Ran North 89°59' East and at
 Set mounds & pits as per instructions.
 " " " " " "
 " " " " " "
 " " " " " "
 Crossed dry creek 12 lks. wide course N.
 Set mounds & pits as per instructions.
 Tp. cor. stake to Tps. 8 & 9 N. Rs. 8 & 7 W.
 Set charred, chalked & notched post 5"x5" & 4 ft. long
 & marked the same for Tps. & Sec. cor. & "L.A." on South
 & "K" on North side & made mounds & pits as per instruc-
 tions.
 Land rolling & covered with scrub & green brush.

N. 89°49' E. 45.25
 62.75
 78.50
 98.40
 158.50
 238.50
 242.85

Along the N. boundary of Tp. 8 N., R. 7 W. according to the
 true meridian with variation of 14°36' East.
 Ran North 89°49' East and at
 Ascend hill covered with stone.
 Summit of hill.
 Set mounds & pits as per instructions.
 Enter scattering Spanish Bayonet trees.
 Set mounds & pits as per instructions.
 Leave Spanish Bayonet trees.
 Point whence the peak of San Antonio Mountain bears
 due south. Erected a stone monument and set post 5"x5"
 & 4 feet long and marked the same "L.A." on South side,
 "K" on North side and "S.B." on East side and made
 trench & pits as per instructions.
 Land 3rd rate. Desert.

Field Notes of Traverse Line to Fort Tejon.
 Commenced at a stake cor. to Secs. 35 & 36, T. 9 N.,
 R. 19 W. and Secs. 1 & 2, Tp. 8 N., R. 19 W. & ran
 according to the true meridian, the variation of
 magnetic needle being 14°42' East North 5° West.

Course.	Chains.
N. 3°W.	99.00
N. 31°11'W.	100.00
N. 37°05'W.	42.50
N. 23°34'W.	10.00
N. 36°36'W.	26.75
N. 39°12'W.	15.00
N. 35°15'W.	9.00
N. 42°28'W.	38.33

To temporary stake at mouth of Canada de los Uras
thence through Canada

To temporary stake thence

"	"	"	"
"	"	"	"
"	"	"	"
"	"	"	"
"	"	"	"

Window on south end of Guard House at Fort Tejon
which being reduced to one direct course Guard House
bears from initial point N. 25°48' W.

Total Number of Miles run on the foregoing

Survey of Boundary

No. of Miles to Initial Point	3 mls. 21 chs. 05 lks.
" " " on Western Bdy.	3 " 00 " 00 "
" " " to Western Corner	16 " 00 " 30 "
" " " " Eastern "	57 " 4 " 35 "
" " " of Traverse to Fort Tejon	4 " 20 " 58 "

83 mls. 46 chs. 28 lks.

On Western line for 8 miles from Tps. 8 & 9, R. 16 & 17 W. we passed thru valley & low rolling hills susceptible to a high degree of cultivation, being well supplied with wood and excellent spring water; thence to the Western Corner over steep & rugged mountains covered with Scrub Oak Manzanita and Cedar Brush. The eastern line from the point above stated passes thru the centre of a sandy plain, the greater portion thereof being Desert covered with Sage Brush Grease Wood and a species of Cactus, known as "Spanish Bayoneta" (Coptentia Arboreus).