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R. 13 W.

	² 6	³ 5	⁴ 4	⁵ 3	2	1
	7	8	9	10	11	⁵ 12
T. 2 N.	18	17	16	15	14	13
	19	20	21	22	23	24
	30	29	28	27	26	25
	31	32	33	34	35	36

R. 13 W.

Survey of N. bdy. T. 2 N., R. 13 W., S.B.M.

Chains

Survey commenced Sept. 16, 1909, and executed with a Dietzgen mountain transit, No. 2377, the horizontal circle reading to 1 minute, and the vertical to 2 minutes of arc. I test the transit in the field, and find its accuracy satisfactory.

Being unable, after diligent search, to find the cor. of secs. 4, 5, 32 and 33, not any of the other corners on the N. bdy. of secs. 5 and 6, T. 2 N., R. 13 W. S.B.M., described by the Surveyor General, and, moreover, finding the topography of the N. bdy. of secs. 5 and 6, T. 2 N., R. 13 W., described by the Surveyor General, to be wholly at variance with the actual topography, I begin at the Bench mark of the U. S. Geol. Survey, elev. 1470, described by the Surveyor General, as being on the range line between Rs. 13 and 14 W., and 45.78 chs. S. of the N.W. cor. of T. 2 N., R. 13 W., and here I observe Polaris, Lat. $34^{\circ} 18' N.$, Long. $118^{\circ} 17' West.$

Astron. l.m.t. of obsn., Sept. 16, 1909	7h. 46.0m.
Equivalent to time of Sept. 15, 1909	31 46.0
U. C. Polaris, Sept. 15	13 49.8
Hour angle of Polaris at obsn.	17 56.2
Subtract from	23 56.1
Time argument for Table VII	5 59.9

Azimuth of Polaris at obsn. N. $1^{\circ} 25' E.$

I set a mark 3 chs. dist. and

E. of Pol.

Azimuth of mark is

$$\frac{52^{\circ} 13'}{N. 53^{\circ} 38'}$$

In the morning I turn from the mark westerly, $53^{\circ} 38'$, and run

North, along the W. bdy. of sec. 6, Desc.

20.00

Rav. S. E. ascend.

28.50

Cor. of Tps. 2 and 3 N., R. 14 W., only, set, marked and witnessed as described by the Surveyor General.

40.90

Main high ridge, bears S.E., cross swale.

these

oaths. L. Ross.

43.85

Small ridge, bears S.E., descend.

44.11

Find old mound of stones, hand placed: the corner stone is missing. In order to identify with more certainty, the N.W. cor. of T. 2 N., R. 13 W., I continue further North. W.C. to $1/4$ sec. cor. on E. bdy. of sec. 36, T. 3 N., R. 14 W., which is a boulder in place, set, marked and witnessed as described by the Surveyor General. The distance between this W.C. and the mound of rocks at station 44.11 agrees within 27 links with the corresponding distance as given by the U. S. Surveyor General; and the distance between the mound of rocks at station 44.11 and the ridge at station 40.90 is also in close agreement with the corresponding distance as given by the U. S. Surveyor General. I am therefore assured beyond a reasonable doubt that this is the corner established by Deputy Sickler, and described by the Surveyor General, and I reestablish it as follows:

56.89

Survey of N. Bdy. T. 2 N., R. 13 W., S.B.M.

Chains

Set a trap stone, 24x12x8 ins. 20 ins. in a mound of stone, for cor. of Tps. 2 and 3 N., R. 13 W., only, on E. bdy. of T. 3 N., R. 14 W., marked T. 2 N. on SE. and T. 3 N. on N.E. faces; with 6 notches on N., S., and E. edges; and I raised a mound of stone 5 ft. base, 4 ft. high E. of cor. Pits impracticable.

Sept. 16, 1909

Thence I run on a true line.
 East, along the N. bdy. of Sec. 6, T. 2 N., R. 13 W.
 Descend broken precipices of semi-disintegrated granite. Rocky, open canon, course S.E., ascend.
 Ridge, 150 ft. high, bears S.E. and N.W., Descend.
 Foot of very steep slope of mountain.
 Enter Tujunga Canon, S.W.
 Enter high brush.
 Leave high brush.
 Road bears N.E. and S.W.
 Enter stony wash of Tujunga, extreme flood water line.
 Normal high water line.
 Tujunga Creek, 20 lks. wide, course S.W.

4.50
 9.75
 32.85
 34.20
 34.40
 34.50
 35.00
 38.00
 39.00

Sept. 17, 1909

Ascend precipitous bluff.
 A trapstone boulder in place, 3x4x2 ft. above ground, for 1/4 sec. cor., I mark 1/4 on N., from which
 An oak, 24 ins. dia. bears N. 34° 30' W.
 98 lks. dist., marked 1/4 S 31 B T.
 No other tree available.
 Ascend along the N. slope of a high divide, about 1000 ft. high.
 High, sharp ridge, bears N. and S. Descend.
 Deep, rugged canon, course N., ascend.
 Falls on a 50° slope of unstable surface, where no cor. would be safe.
 An oak 24 ins. dia. bears S. 65° E. 78 lks. dist. from true pt. for cor. I mark this oak for witness cor. to cor. of Secs. 5, 6, 31 and 32:
 W O T 3 N R 13 W S 32 on N.E.
 T 2 N R 13 W S 5 on S.E.
 S 6 on S.W. and
 S 31 on N.W. face; with 5 notches on E. and 1 notch on W. side, from which
 An oak, 18 ins. dia. bears S. 20° W. 245 lks. dist. marked W O T 2 N R 13 W S 6 B T.
 No other tree available.
 Land, mountainous.
 Soil, 4th rate, rocky.

40.00
 65.00
 75.50
 80.00

Survey of N. Bdy. T. 2 N., R. 13 W., S. B. M.

Chains

Timber, brush, oak.

Sept. 18, 1909

these oaths. L. Ross.

The land E. of cor. of Secs. 5, 6, 31 and 32, is broken by impassable gorges and cliffs. I therefore offset from the true point for cor. of secs. 5, 6, 31 and 32, N. 0° 1' E. 20.00 chains, to a point from which Bryant's house bears S. 85° W. 200 links dist. Thence I run, along offset line, East, through Bryant's orchard. Gully, course N., enter vineyard. 4.00 Gully, course N. leave vineyard; ascend. 8.50 Low, broken ridge; bears N. and S., descend. 20.20 Foot of ridge, enter overgrown flat. 12.00 Trail above S. bank of Tujunga Creek, bears N. 75° W. and 24.50 S. 75° E., descend steeply, to Tujunga Wash.

Sept. 19, 1909.

Tujunga Creek, 40 lks. wide, course N. 65° W. Ascend. 26.00 Leave Tujunga Wash. Ascend. 29.50 Road, bears S. 75° E., ascend. An uncultivated flat 33.50 of about 20 acres bears to the North, adjacent to road. Foot of low, broad spur. 36.50 W. brow of spur, bears N. and S. 37.50 Set a granite stone, 12x10x10 ins. 10 ins. in the ground, 40.00 for witness to 1/4 sec. cor., marked W C 1/4 on N. face; and raise a mound of stone, 3 ft. base, 2 ft. high N. of cor. Pits impracticable. Descend. 42.00 Foot of spur. 43.50 Road, bears N. and S. Enter stony wash of Tujunga.

Sept. 20, 1909.

Creek, 40 lks. wide, course S. 15° W. 47.00 Leave Tujunga Wash; ascend steep, heavily overgrown ridge. 50.25 Summit of ridge, bears N. 20° W. 58.00 Descend steeply through heavy undergrowth. 58.75 Enter stony wash of Delta Canon, course N. 60.50 Leave stony wash of Delta Canon. Ascend steeply through heavy undergrowth. 70.00 High, sharp spur bears N. and S. Ascend along the N. slope of an overgrown mountain, 1000 ft. above the thread of the canon. 80.00 Offset 20.00 chains S. 0° 1' W. to return to the N. bdy. of T. 2 N., R. 13 W. The true point for cor. falls on the bottom of the stony wash of Delta Canon, a place quite unsuitable for a cor. I therefore run back N. 0° 13' E., 7.70 chains to the crest of the high ridge, bearing E. & W. forming the divide between Tujunga and Delta Canons, and

Survey of N. Bdy. T. 2 N., R. 13 W., S. B. M.

Set a granite stone 16x8x8 ins. 10 ins. in the ground for witness to cor. of secs. 4, 5, 32 and 33, marked W O on NE. face; with 4 notches on E. and 2 notches on W. edges; and raise a mound of stone, 3 ft. base, 2½ ft. high W. of cor. Pits impracticable.

Land, mountainous.
Soil, 2d to 4th rate.
Timber, oak and chamisal brush.

September 21, 1909.

From the true pt. for cor. of secs. 4, 5, 32 and 33 I run East bet. secs. 4 and 33.

Ascend steep NE. bluff of Delta Canon.
10.50 High ridge, bears N. 20° E., descend.
19.00 Canon, heavily overgrown, course N. 15° E. Ascend.
22.50 Sharp, precipitous ridge, bears N. and S. Descend.
34.00 Foot of precipitous ridge.
40.00 Set a squared redwood post, 3 ft. long, 3x4 ins. in cross section, 2 ft. in the ground, for ¼ sec. cor., marked ¼ S 33 on N. and 4 on S. faces; from which an oak, 14 ins. dia. bears N. 13° W., 73 lks. dist. marked ¼ S 33 B T.
An alder 5 ins. dia. bears S. 45° W., 114 lks. dist. marked ¼ S 4 B T.

Sept. 22, 1909.

these oaths. L. Ross.

55.50 Road, bears NW. and SE.
57.30 Tujunga Creek, 40 lks. wide, course NW., enter flat.
61.30 Leave flat, Oil well bears S., about 40 lks. dist. Ascend.
75.00 High spur, bears NW. and SE., descend.
80.00 Canon, course S. Not a suitable place for cor. Ascend.
84.53 Summit of brushy spur, bears N. & S.
Set a granite stone 18x7x7 ins. 14 ins. in the ground, for witness to cor. of secs. 3, 4, 33 and 34, marked W O on NE. face, with 3 notches on E. and W. edges; and raise a mound of stone, 2½ ft. base, 2 ft. high W. of cor.
Land, mountainous.
Soil, rocky, 3d to 5th rate.
Timber, oak and alder at creek, brush on mountain sides.

Sept. 23, 1909

Survey of N. Bdy. T. 2 N., R. 13 W., S. B. M.

Chains

From the true point for cor. of secs. 3, 4, 33 and 34,
I run East bet. secs. 3 and 34.
4.53 W.O. to cor. of secs. 3, 4, 33 and 34, previously described. Descend.
10.50 Gulley, course SW., ascend.
17.00 Low ridge, bears SW., descend.
20.50 Steep, overgrown canon, course SW., ascend.
39.16 Summit of high mt., bears N. and S.
As true point for cor. falls on a steep precipitous declivity, where no cor. would be safe, I
Set a granite rock, 34x6x5 ins. 26 ins. in the ground, for witness to 1/4 sec. cor. marked W C 1/4 on N. face; and raise a mound of stone, 3 ft. base, 2 1/2 ft. high N. of cor. Pits impracticable.
The land to the East is extremely steep, broken by canons, gullies and ravines. It is impassable and wholly unfit for cultivation. I therefore do not run further East.
Land, gorges and ridges.
Soil, rocky, 5th rate.
Timber, brush.

Sept. 24, 1909.

Preliminary to the resurvey of the E. bdy. of sec. 13, T. 2 N., R. 13 W., S.B.M., I locate from description and maps, the "high ridge", 8.96 chs. N. of cor. of secs. 7, 12, 13 and 18, described by the Surveyor-General. By noting on this ridge the blazed underbrush, a 5 inch stump of an oak bush, and clearings to the S. and W., I identify beyond a reasonable doubt the furthest N. point surveyed on this range line, from which point the triangulation was made by Deputy Cutting, as described by the Surveyor General.

Thence I run
8.96 South, along the E. Bdy. of sec. 12.
A partly scattered mound of rocks bears N. 45° E. 20 lks. dist. The mound is hand placed, and old clearings through the brush to the N. S. and W. are easily recognizable. The cor. stone described by the Surveyor General is missing, the ground being so steep that no set stone would be likely to remain long. The ground here consists of steep, broken precipices, covered with a thick, high interwoven mass of live and dead undergrowth, making it absolutely impossible to run from there either N., S. or W.; nor can I initiate a triangulation from here, because the ruggedness of the ground prevents the accurate measurement of a reasonably long base.

Oct. 10, 1909.

On the firebreak, which is a high ridge, bearing S.E. and N.W. about a mile S., I cause a flag to be set, lining it in due S., thus I locate on the crest of this

these oaths. L. Ross

This is the end of photographic copy from Washington.