

## Chains

82.21 Intersect the N. Bdy. of the Tp., 295 ft. above creek, - 236 lks. E. of the Standard Cor. of secs. 33 and 34, T.36 N., R. 61 E.

At the point of intersection, set an iron post 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for the closing cor. of secs. 3 and 4, with brass cap mkd:

T36N	R61E
S33	S34

C	C
S4	S3
T35N	R61E
1915	

and raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high, S. of cor.

Land, heavily rolling east slope of East Humboldt Mountains.

Beginning of mile for about 5 chs. is swampy land.

Most of the remainder of mile is sandy loam mixed with gravel from a few inches to several feet deep on stony and gravelly subsoil. From the 40 to the 48 chain-point is almost solid granite.

Timber, aspen and mountain mahogany.

Undergrowth, chaparral, willows, choke cherry, service berry, sage and buckbrush. Good growth of grass.

Sept. 13, 1915.

August 24, 1915.

At the cor. of secs. 32 and 33 on the S. Bdy. of the Tp., at 10h 0m, a.m., l.m.t., I set off  $40^{\circ}53'N.$  on the lat. arc,  $11^{\circ}19\frac{1}{2}'N.$  on the decl. arc, and determine a meridian with the solar.

Thence  $N.0^{\circ}10'W.$  between secs. 32 and 33.

Over E. slope of East Humboldt Range of Mountains, near top of main ridge. Very little vegetation. A few scrub pine trees.

16.75 Head of canyon, 100 ft. below section corner, course  $N.80^{\circ}E.$

27.30 Rocky spur of ridge, 140 ft. above canyon, slopes E.

40.00 Set a granite stone  $22 \times 7 \times 4$  ins., 50 ft. below spur, 16 ins. in the ground for the  $\frac{1}{4}$  sec. cor., marked with  $\frac{1}{2}$  on W. face, and raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

44.00 Head of draw, same elevation as  $\frac{1}{4}$  sec. cor., course  $S.80^{\circ}E.$  Ascend steep SE. slope.

74.85 Top of ridge, 830 ft. above head of draw, bears  $N.80^{\circ}E.$  and  $S.80^{\circ}W.$  Scattering balsam trees on top of ridge.

Continue along E. slope of top of ridge.

80.00 Set a trap stone  $20 \times 8 \times 8$  ins., 15 ins. in the ground for the cor. of secs. 28, 29, 32 and 33, marked with 1 notch on the S. and 4 notches on the E. edge, and raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

Corner is on same elevation as ridge.

Land, rough and mountainous.

Very rocky, steep E. slope of ridge. Granite and quartzite outcrops and slide rock. A little rich, sandy loam among rocks. A very little timber of scrub pine and fir timber. Very little undergrowth. Some grass.

At this corner at 12 h  $2\frac{1}{2}$  m, p.m., l.m.t., I set off  $11^{\circ}18'N.$  on the decl. arc, and observe the sun on the meridian, the resulting latitude is  $40^{\circ}54'N.$

Aug. 24, 1915.

August 29, 1915:

At the cor. of secs. 28, 29, 32 and 33, at 9 h 0 m, a.m., l.m.t., I set off  $40^{\circ}54'N.$  on the lat. arc;  $9^{\circ}36\frac{1}{2}'N.$  on the decl. arc, and determine a meridian with the solar.

Thence  $N.89^{\circ}49'E.$  on a random line between secs. 28 and 33.