

Subdivision of T. 40 N., R. 35 E.

Chains

The subdivisional survey of T. 40 N., R. 35 E., was executed with Buff and Buff light mountain solar transit No. 9210, the property of the General Land Office. For description, date of approval and field tests, together with tests of minor equipment, see page 1, book of exteriors, Tps. 39 and 40 N., Rs. 35 and 36 E., this group.

The geographic position of the SE. cor. of the Tp., as determined by an observation of Polaris at lower culmination and heretofore described is latitude 41° 16' 47" N., and longitude 117° 59' W.

The directions of all subdivisional lines were determined by the method of deflections from meridians established by altitude observations of the sun; a record of one of these follows:

August 24, 1940. At the cor. of secs. 27, 28, 33 and 34, I make an altitude observation of the sun, first setting on the sun's lower and left limbs, then after reversal of the instrument setting on the upper and right limbs; the horizontal angles were measured from the cor. of secs. 3, 4, 33 and 34, on the S. bdy. of the Tp., SE. to the sun.

Mean watch time of obsn. a.m. ....	9h 00m 00s
Mean vertical angle .....	41° 08' 30"
Mean horizontal angle .....	64° 30' 30"
Mean bearing of subdivisional line .....	S. 0° 02' 20" E.

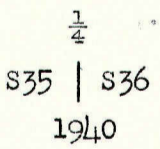
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I commence the subdivisional survey at the cor. of secs. 1, 2, 35 and 36, on the S. bdy. of the Tp.

N. 0° 01' W., bet. secs. 35 and 36.

Asc. slightly over mountainous land, on a SW. slope, thru scattering undergrowth.

- 2.10 Spur, slopes NW.; desc. 70 ft. over a W. slope.
- 15.50 Spur, projects NW.; desc. over steep N. slope, 400 ft. to draw.
- 28.00 Road, bears N. 70° W. and S. 60° E.
- 30.60 Draw, drains N. 70° W.; asc. 60 ft. over a S. slope.
- 37.10 Spur, slopes W.; desc. 80 ft. over a N. slope.
- 40.00 Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the 1/4 sec. cor., with brass cap mkd.



raise a mound

of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.

From this 1/4 sec. cor.

- Main tunnel Austin Mine, bears N. 65° 32' E., 13.71 chs. dist.
- Tunnel, bears N. 70° 31' E., 14.39 chs. dist.
- Tunnel, bears N. 73° 06' E., 17.16 chs. dist.
- Tunnel, bears N. 76° 05' E., 17.22 chs. dist.
- Tunnel, bears N. 78° 34' E., 17.05 chs. dist.
- Tunnel, bears S. 81° 52' E., 14.63 chs. dist.
- Tunnel, bears S. 64° 25' E., 14.59 chs. dist.
- NW. cor. engine house bears N. 72° 12' E., 13.54 chs. dist.
- N. cor. ore-bin, bears N. 68° 27' E., 13.41 chs. dist.
- SW. cor. boarding house, bears N. 60° 07' E., 18.43 chs. dist.
- SW. cor. cabin bears N. 48° 12' E., 17.48 chs. dist.
- Rocky peak bears S. 66° 07' W., 39.59 chs. dist.; approximate elevation 6153 ft.

- 40.60 Draw, drains W.; asc. 110 ft. over a S. slope.