

THIRD STANDARD PARALLEL SOUTH, through RANGE 48 EAST.

Chains

determined by the solar.

At 7h.45m., a.m., l.m.t., I set off 36°48'N., on lat. arc, 10°51'S. on decl. arc, and mark a point in the meridian determined with the solar, by a cross on the stone already set 5 chs. N. of my station; this mark falls 0.3 ins. west of the meridian established by the Polaris observation.

The solar apparatus, by p.m. and a.m. observations, defines positions for meridians, about 0'16" east and west of the meridian established by the Polaris observation; therefore, I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian, at 8h.30m., a.m., is N.16°30'W., the angle thus determined gives the mag. decl. 16°30'E.

From the standard cor. already described, I run East, on S. bdy. sec. 31.

Descend abruptly over broken and rocky east slope of Bare Mountains.

Difference between measurement of 40.00 chs., by two sets of chainmen is 20 lks., position of middle point,

By 1st. set, 39.90 chs.,

By 2nd. set, 40.10 chs., the mean of which is

40.00 Set a lava stone, 24x14x6 ins., 18 ins. in the ground, for standard 1/4 sec. cor., marked S C 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.

49.00 Hollow, 600 ft. below Stan. Tp. cor., course SE.

Abrupt ascent.

52.45 Rocky ridge, bears NW. and SE.

Along N. slope of ridge.

65.00 Same ridge, bears NE. and SW.

Descend along steep S. slope.

Difference between measurement of 80.00 chs., by two sets of chainmen is 18 lks., position of middle point