

T. 10 N., R. 23 E.

Chains

Survey commenced July 16, 1941.

For description and tests of instruments used on this township, refer to the field notes of T. 9 N., R. 23 E., executed during the same season under this Group No. 246.

Frequent meridian determinations were made on line during progress of the work by observation on Polaris or by observation upon the sun. One determination of the latter type, made near the end of the assignment upon which to test the azimuth as carried through the assignment by transit angles, is here given:

August 9, 1941, near the cor. of secs. 11, 12, 13 and 14, T. 10 N., R. 23 E., M.D. Meridian, Nevada, in latitude $38^{\circ}45'N.$ and longitude $119^{\circ}22'W.$, at 7hr 24m a.m., app. t., I make a series of five altitude observations upon the sun for azimuth, each with the telescope in direct and reversed positions, observing opposite limbs of the sun, and reading the horizontal deflection angle from a flag on highway about $\frac{1}{4}$ mile distant, in the direction E. and S. to the sun:

Observation	Telescope	Sun Watch time	Vertical Angle	Horizontal angle to sun
1st	Direct	7h 18m	$24^{\circ}18'$	$35^{\circ}24'$
1st	Reversed	<u>7h 25m</u>	$25^{\circ}09'00''$	$34^{\circ}54'$
	mean		$24^{\circ}43'30''$	$35^{\circ}09'$
2nd	Direct		$24^{\circ}32'$	$35^{\circ}13'$
	Reversed		$25^{\circ}23'30''$	$34^{\circ}42'$
			$24^{\circ}57'45''$	$34^{\circ}57'30''$
3rd	Direct		$24^{\circ}44'00''$	$35^{\circ}03'00''$
3rd	Reversed		$25^{\circ}36'00''$	$34^{\circ}32'30''$
			$25^{\circ}10'00''$	$34^{\circ}47'45''$
4th	Direct		$24^{\circ}55'00''$	$34^{\circ}35'30''$
4th	Reversed		$25^{\circ}56'00''$	$34^{\circ}16'30''$
			$25^{\circ}26'30''$	$34^{\circ}35'30''$
5th	Direct	7h 22m	$25^{\circ}06'00''$	$34^{\circ}45'00''$
5th	Reversed	7h 30m	$26^{\circ}08'30''$	$34^{\circ}08'00''$
			$25^{\circ}37'15''$	$34^{\circ}26'30''$

Mean true bearing to flag S. $55^{\circ}48'E.$

DEPENDENT RESURVEY OF A PORTION OF THE WEST BDY. OF T. 10 N., R. 24 E.

Reestablishment of the Survey Executed by Chase and Lash, Deputy Surveyors, in 1867 under Contract No. 8.

Commence at the cor. of Ts. 9 and 10 N., R. 24 E., which is an iron post, 3 ins. diam., firmly set, marked and witnessed as described in the official record, field notes of T. 9 N., R. 23 E.;

$N.0^{\circ}57'W.$, on true line along the W. bdy. of sec. 31,

Over broken mountainous land through medium heavy large timber and medium dense undergrowth; desc. 40 ft. over N. slope.

- 1.20 Small draw, drains E.
- 4.26 The cor. of Ts. 9 and 10 N., R. 23 E., heretofore described in the field notes of T. 9 N., R. 23 E.
- 5.50 Draw, drains S. $60^{\circ}E.$; asc. 200 ft. over broken S. slope.
- 21.80 Spur, slopes E. 8 chs., thence SE.; desc. 180 ft. over abrupt N. slope.
- 31.90 Draw, drains N. $70^{\circ}E.$; asc. 260 ft. over steep S. slope.
- 40.35 Intersect the original $\frac{1}{4}$ sec. cor. of secs. 31 and 36, which is marked by fragments of a surfaced pine post lying on an old embedded mound of stones.