

Retracement and Resurvey of 4th Standard Parallel N., R. 36 E.

17

Chains

78.16

The cor. of T. 19 N., Rs. 36 and 37 E.
Thence S. $89^{\circ} 54' E$.

80.00

On SE. slope, 1270 ft. below ridge, at 50.50 chs.

The cor. of T. 20 N., Rs. 36 and 37 E.

Land, high, rough mountains; exposure and drainage to N. and NE.

Soil, rocky of porphyry formation; 4th rate.

Undergrowth, heavy sage brush and grass on W. $50\frac{1}{2}$ chs.

Timber, dense pinon pine and cedars on E. $29\frac{1}{2}$ chs.

Sept. 25, 1915.

RETRACEMENT

AND RESURVEY OF 4th STANDARD PARALLEL N., R. 36 EAST

From the standard corner of T. 21 N., Rs. 35 and 36 E., heretofore described.

East, retracing and resurveying on S. bdy. sec. 31.

Having only one set of chainmen, I cause all distances and clinometer readings to be doubly checked, and the mean horizontal distance only appear in the field notes.

Ascend SW. slope.

4.29

The closing corner of T. 20 N., Rs. 35 and 36 E. 2 lks. S. of line.

23.67

Top of ascent on ridge, bears N. $80^{\circ} E$. and S. $80^{\circ} W$., 370 ft. above tp. cor.

39.37

S. of my line, 19 lks. is the standard $\frac{1}{4}$ section corner, which is a porphyry stone, $8 \times 6 \times 10$ ins. above ground firmly set, marked $\frac{1}{4}$ on N. face, witnessed by few rocks and stone, I raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high to N. of cor.

True course and distance of this half mile is S. $89^{\circ} 43' E$. 39.37 chs.

78.94

From station 19 lks. N. of $\frac{1}{4}$ cor., continue East.

200 ft. above $\frac{1}{4}$ sec. cor.

Fall 16 lks. N. of the standard corner of sec. 31 and 32, hereinafter described.

The true course and distance of this half mile is therefore N. $89^{\circ} 57' E$. 39.57 chs.

Land, rolling mountains, facing and draining to the SW. Soil, rocky and gravelly, volcanic and limestone formations; 3rd and 4th rates.

Undergrowth, short scattering sage brush. No timber.

Nov. 4: At the above corner, I set off $15^{\circ} 13' S$. on the decl. arc; and at 11h 44m a.m. l.m.t., observe the sun on the meridian; the resulting latitude is $39^{\circ} 37'$.

Nov. 5: At 8h 14m a.m. l.m.t., I set off $39^{\circ} 37'$ on the lat. arc; $15^{\circ} 27' S$. on the decl. arc; and determine a meridian at the standard corner of secs. 34 and 35,

hereinafter described; thence

East, retracing and resurveying on S. bdy. sec. 35.

Over broken mountainous land, descending over SE. and E. face; through undergrowth of sage brush.

20.45

Wash, 40 lks. wide, 3 ft. deep, in bottom of canyon, 2 chs. wide, 500 ft. below sec. cor., course N. for 3 chs., thence NW.

Ascend steep W. slope, 440 ft.

34.90

Rocky spur, project's NE., 5 chs. to canyon; descend steep rocky E. slope.

39.60

N. of my line, 17 lks. is the standard $\frac{1}{4}$ sec. cor. which is a cross X cut on the SE. slope of granite bedrock, witnessed by a small mound of stone to S. of cor. Therefore the true course and distance of this half mile is N. $89^{\circ} 45' E$. 39.60 chs.

42.72

N. point of ledge, 40 ft. high extends S. 1 ch.

44.80

Wash, 10 lks. wide, 2 ft. deep, in bottom of canyon, 2 chs. wide, 330 ft. below spur, course N. $70^{\circ} W$.; thence up along bottom of a canyon from the E.

50' 8" (12)