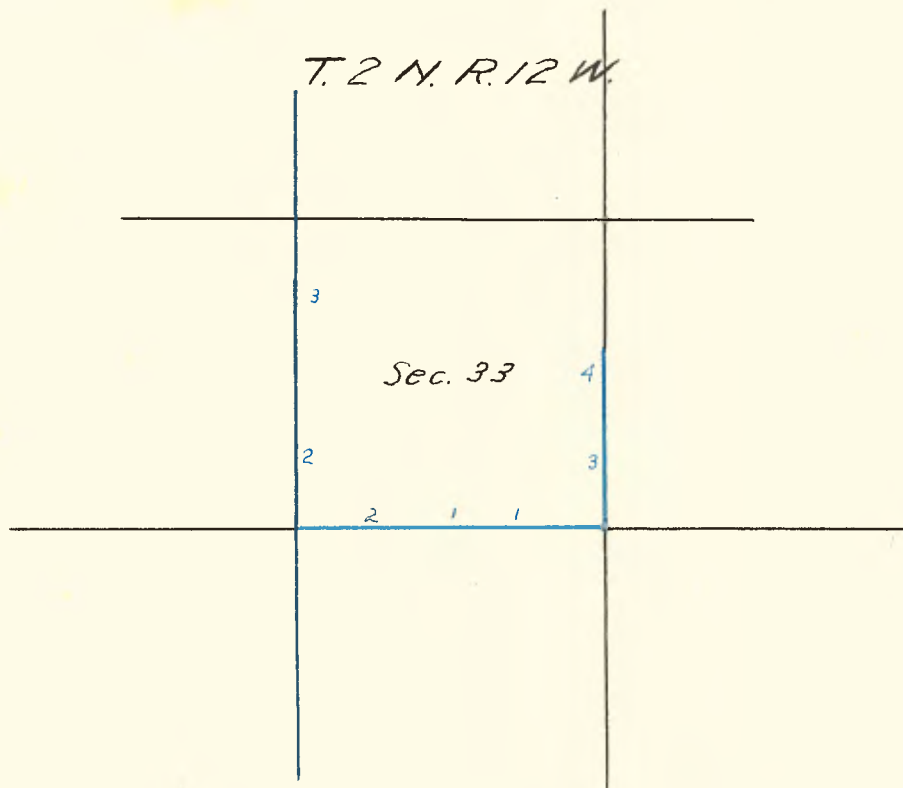


FIELD NOTES

East line, West line &  
South line, Section 33,  
T. 2 N., R. 12 W., S. B. M.

McPherson, June 4, 1903

Copied from notes loaned by National Forest  
Reserve



Survey executed with a W. and L. E. Gurley R. R. Transit, having a  $4\frac{1}{2}$ " needle. Transit in through adjustment. Chain used was a 100 link surveyor's chain, which I tested with a standard steep tape and found correct.

On account of the high mountains to the N. Polaris is not visible from the SE corner of Sec 33 (the point designated in my instructions as the point at which to begin the survey). I therefore select a suitable point on the mesa lands some distance below and observe Polaris with the transit at its eastern elongation and drive nails to establish the line until morning. The observation was taken in latitude  $34^{\circ}12'N$ , Longitude  $118^{\circ}00'W$ , as per contour maps of the U.S.G.S. This will make Polaris at its eastern elongation  $1^{\circ}28'E$ .

From this line I run the following angle line  
 $81^{\circ}51'$  Right to a point,  
 $81^{\circ}12'$  Left to a point,  
 $56^{\circ}52'$  Left to a point in the S. line of Sec. 33, between the iron post at the SE corner and the stone, marking the quarter post, this point having been established by putting the transit in line between the iron post and a flag at the quarter post. At this point I turn  $35^{\circ}34'$  left from last line to section line, which makes the section line S.  $89^{\circ}41'W$ .

June 3, 1903. I start at iron post SE corner Sec. 33, T. 2 N., R. 12 W., S. B. M., S.  $89^{\circ}41'W$  over mountainous land, covered with dense undergrowth. Ascend.

1.35	Spur from mountain, bearing SW. Descend.
6.20	Cross mouth of tunnel, bearing N. $80^{\circ}E$ .
7.50	Cross small water way 5 lks. wide, bearing S. $15^{\circ}W$ . Ascend along broken ground.
13.70	Stone retaining wall.
14.00	Spur bearing S. Descend.
18.25	Cross small water way 10 lks. wide, course SW.
23.80	Leave dense undergrowth.
24.00	Wagon road, course N. and S. and enter cultivated land, which extends N. about 2 chs.
29.00	Leave cultivated land on edge of arroyo bluff.

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	Enter dense undergrowth and descend bluff.
30.60	Bottom of steep bluff.
36.50	Cross water way 20 lks. wide, course S. $20^{\circ}W$ .
37.50	Foot of steep bluff, still ascend.
40.18	Quarter section corner between sections 4 and 33 marked by stone as described in field notes of Lewis H. Cutting, Deputy Surveyor, contract of January 24, 1896. My line is projected with the transit by taking back sight, from the quarter corner on a flag in line 1.35 chs. from iron post at SE. corner of section. My instrument is in adjustment as proved by reversing in sight, so my line is correct. To hit the SW. corner of section I must, therefore, run from the quarter corner N. $89^{\circ}53'W$ . Starting at quarter post, running N. $89^{\circ}53'W$ .
0.50	Summit of ridge bearing S. $20^{\circ}W$ . Descend.
4.30	Steep descent.
5.50	Bottom of steep descent.
9.00	Cross old wagon trail, bears S. $10^{\circ}W$ .
11.15	Cross small gulch, 10 lks. wide, course S. $20^{\circ}W$ . Ascend.

12.35 Trail bears S. 10° W.  
 14.00 Wagon road bears S. 10° W. Descend.  
 15.80 Cross gulch 20 lks. wide, course S. 20° W. Ascend.  
 20.00 Edge of steep cliff, continue to descend over broken ground.  
 25.80 Gulch 20 lks. wide, course S. for about 80 lks. then turning  
 nearly west for 2 chs. then turning SW.  
 Ascend over broken ground.  
 38.00 Descend.  
 40.06 Section corner sections 4, 5, 32 and 33, where I find stone  
 marked as described in Field Notes of Lewis H. Cutting, Deputy  
 Surveyor, contract of January 24, 1896.  
 All of the south line of Section 33, with the exception of the  
 small piece between chs. 23.80 and 29.00 along the SE. quarter,  
 is broken foot hill country, too rough to be cultivated and is  
 covered with dense undergrowth.  
 Soil light and gravelly.  
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T. 2 N., R. 12 W., S. B. M.

W. line Sec. 33, T. 2 N., R. 12 W., S. B. M.

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Starting at sec. cor. to secs. 4, 5, 32 and 33, I run N. on  
 random line bet. secs. 32 and 33, over broken and mountainous  
 land. Ascending.  
 3.80 Cross gulch 10 lks. wide, course W. entering main gulch, which  
 runs south, about 2 chs. to west. Ascend.  
 12.50 Cross small gulch, 10 lks. wide, course W. Main gulch about  
 2 chs. W.  
 15.00 Main gulch about 3 chs. west.  
 18.25 Cross small gulch course W. Main gulch about 2 chs. west.  
 Ascend.  
 22.00 Very steep ascend, can chain only 10 lks. at a time along here.  
 27.00 Main gulch about 3 chains W.  
 30.25 Cross main gulch, course SW. Ascend steep mountain side.  
 36.40 Trail on top of ridge. Ridge bears east on east side of line,  
 turning to SW. on W. side of the line.

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As the distance I make it to the above ridge from the section  
 corner is 36.40 chs. and that given by Deputy Surveyor A. W. Von  
 Schmidt, contract of August 7, 1880, is 38 chs, and as the ground  
 is very rough and steep over this course so that chaining was  
 difficult, I determine to check this measurement by triangulation.  
 I set flag in small spur 48 lks. N. of sec. cor. 4, 5, 32 & 33 and  
 measure base line from above point in trail on top of ridge at  
 chain 36.40 S. 83° 57' E. 5.00 chains. From the E. end of this base  
 the flag at 0.48 chs. N. of sec. cor. bears S. 8° 00½' W.  
 The angles were measured accurately with transit vernier.  
 This gives the calculated distance from flag at 0.48 chs. to  
 point in base line at 36.40 chains to be 35.90 chains, which  
 differs from the chaining 2 lks. I therefore consider my chain-  
 ing to be correct. As the section line continued N. will cross  
 Millard Canyon with steep bluff on each side, I send a flag  
 ahead to the N. side of Millard Canyon to a point in the continua-  
 tion of the section line between sections 32 and 33 and triangulate  
 to it from above described base line. From the easterly end of

this base line the flag N. of Millard Canyon bears N.  $11^{\circ} 01\frac{1}{2}'$  W. This gives the calculated distance from the end of the base line at 36.40 chains to the flag 25.06 chs. the flag should therefore be at 61.46 chs. I continue now N. from point in trail at chain 36.40 descend through heavy second growth, mostly scrub oak.

40.00 I make diligent search and find no trace of the 3" oak stake placed to mark this corner by Deputy A. W. Von Schmidt in August, 1880. I therefore adopt my random line as the true line and to re-establish this quarter corner, I place a rock 7 x 18 x 24 in. 1 ft. in the ground and mark it on the N. side  $\frac{1}{4}$ , on the W. side, 32, and on the E. side 33. (The figures are cut with chisel) and built a mound of earth,  $3\frac{1}{2}$  ft. base and  $1\frac{1}{2}$  ft. high, 3 ft. to west of stone and dig pits 18 x 18 x 12 ins. N. and S. of stone. Continuing N. on random line, descend through heavy second growth.

42.75 Small water way, course W.

43.00 Enter bench land, which if cleared could be cultivated soil.

48.20 Leave bench land, which end begin steep descent.

54.00 Foot of steep descent.

55.20 Cross wagon road in Millard Canyon, course SW.

55.60 Edge of waterway, Millard Canyon, course SW. flowing water.

56.10 Cross Millard Canyon and ascend steep mountain.

60.00 I locate point and continue chain to flag, located by triangulation and find it at 61.52 chs., which is a 6 lks. more than by triangulation. I therefore consider the chaining correct. I return to point at 60.00 chains and make diligent search but find no stone I can identify as the one 6 x 8 x 14" set by Deputy A. W. Von Schmidt to mark this point. I therefore accept random line as true line as. The mountain here is steep, and the soil decomposed granite of a sliding nature. To re-establish this point I bench out a place in the mountain side and erect a stone monument 3 ft. base and 3 ft. high with a 3" oak stake 4 ft. long, set in the center. Witness tree oak 6" dia. bears N.  $30^{\circ}$  W. 8 lks. Another oak tree 6 in. dia. bears S.  $30^{\circ}$  E. 10 lks.

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Beginning at iron post S. G. F. R. 21 at the corner to sections 33 and 34 on the S. boundary of T. 2 N., R. 12 W., S. B. M., running thence,  
North on the true meridian, between secs. 33 and 34.  
Ascending over rough mountainous land.

3.00 Top of spur bearing west, descend.

4.80 Cross trail leading up NE.

5.50 Ascend.

6.70 Cross trail, crossed at 4.80 leading up W.

8.00 Top of ridge, descend.

9.85 Cross same, trail leading NE.

11.20 Cross gulch 20 lks. wide, course down stream N.  $80^{\circ}$  W. Ascend.

12.80 Cross same trail as above, leading up NW.

19.00 Descend.

23.80 Cross same trail leading NE.

24.50 Cross ravine 20 lks. wide, course S.  $70^{\circ}$  W. Ascend.

30.00 About 3 chs. to the E. the ravine crossed at 24.50 is running S.

35.50  
40.00

Cross small gulch, leading east into ravine about 3 chs. E.  
Quarter corner between secs. 33 and 34.

This is on a precipitous mountain side of decomposed granite at surface. If a corner stone be placed in the surface soil it will be apt to all slide down, and if the side hill is benched out for it, material sliding from above is apt to bury it. I therefore bench in to solid material and upon this bench erect a stone monument,  $3\frac{1}{2}$  feet base and 3 ft. high, and in it facing south where it can be easily read, I place a stone 7 x 15 x 24 in. chiseled to 33 and 34. Pits are impracticable. Sliding earth will probably cover the lower part of this monument.

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