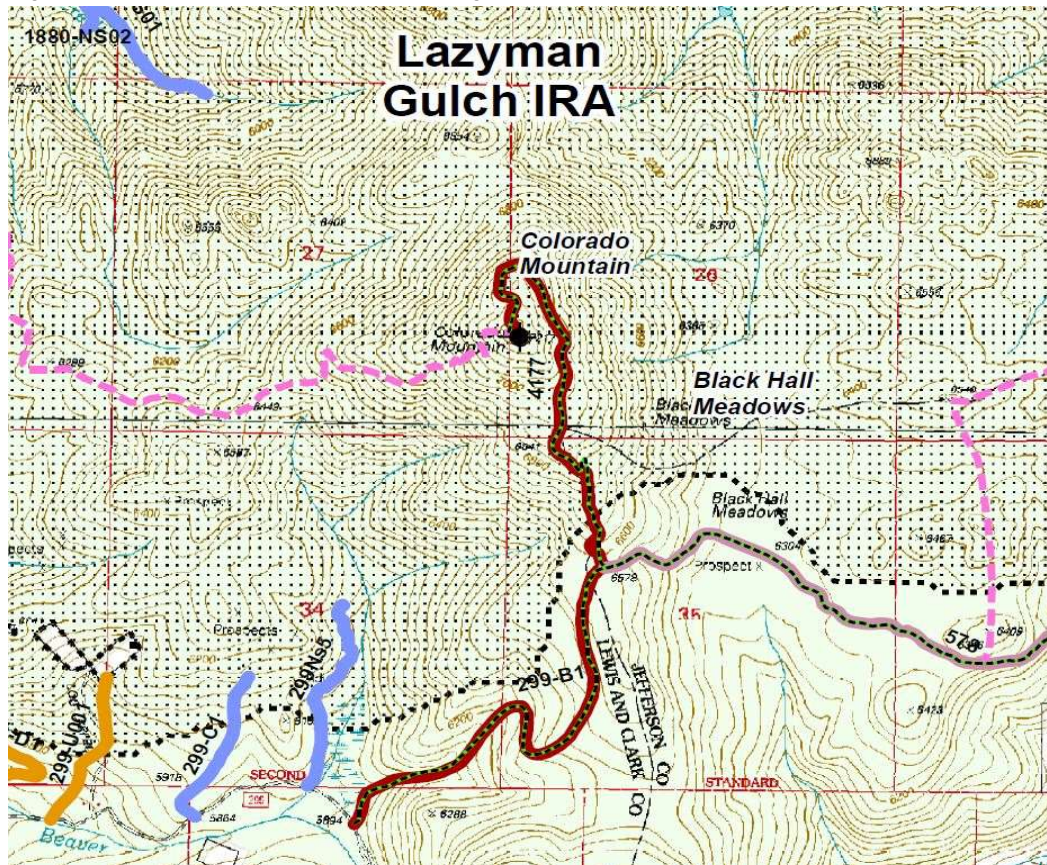


## #4177 (Colorado Mountain Trail)



### Discussion of #4177 in Tenmile record/GIS Data/ROD

#4177 is referred to an “existing” non-motorized system trail in Tenmile ROD (Tenmile-009185).

#4177 is not an existing National Forest Transportation System road (Tenmile-007052, Table 304).

#4177 is not listed as an unauthorized, user-created, or non-system existing road.

#4177 would be used for mechanized logging. Forest Service maps reveal #4626-001 would be used by mechanized equipment to access treatment Units in section 8, including Units 238, 239, 229 and possibly 207 and 217. Compare Transportation Plan maps, Tenmile-10705 (Alt. 4) and Tenmile-009522 (ROD) with Tenmile-009523 (map of units). Units 238 and 239 would utilize “mechanized” and “ground-based” logging systems (Tenmile-009258); GIS Table at \*\*. Unit 229 would also use a “mechanized” logging system. Tenmile-009257. In the FEIS, Forest Service says “mechanized” equipment to be used “could range from tracked chippers and skid steers, to larger machines such as tracked feller-bunchers. Tenmile-006125; see also Doc. 65 at 26 (counsel noting that majority of mechanized use in IRAs would use track forwarders or UTVs).

#4177 maintain its status as an existing non-motorized system trail and it would be subject to closure method 3 (Emergency Access Route). Closure method 3 Emergency Access Route means #4177 “will be removed from Transportation System and obliterated, including recontouring where appropriate, decompaction/ripping, revegetation, culvert removal, re-establishment of natural drainage contours.” Tenmile-009522; Tenmile-015434.

**SURVEY of #4177**

**Waypoints 006 – 011**



**METHODS:**

Avenza map app was used to follow georeferenced USFS PDF map of the “existing road”, which does not exist.

Google Earth was used to map waypoints on a 3-dimensional satellite image of the “existing road” and surrounding terrain (below).

Waypoints were taken approximately every 400 yards (420 steps). Six waypoints and 12 photos were taken and filed. At least one photo from each waypoint is displayed below.

Photos (if multiple) from each waypoint are displayed on one page.

**Name of Surveyor:** Camie Westfall

**Date Surveyed:** 5/16/2020

**GPS Model:** Garmin GPS Map64s

**Datum:** WGS84

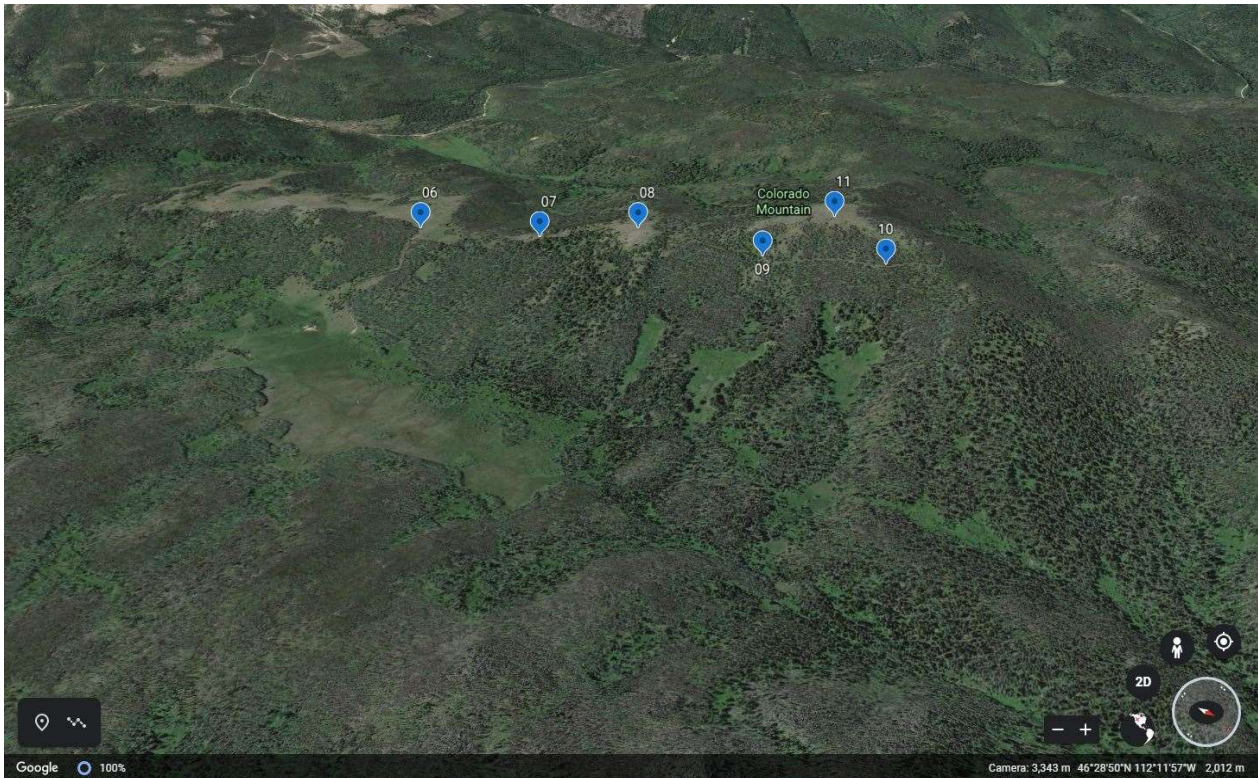
**GPS Position Format:** hddd.ddddd°

**Mapping Apps:** Avenza was used to follow geo-referenced FS Tenmile-South Helena Project Alternative 4 Transportation, Trails, and Road Closure/Obliteration map (Tenmile-10705) which for the purposes of documenting the “existing roads” parrots the ROD map (but includes road numbers and IRA boundary). I also used the Google Earth 3D waypoint map.

**Time Spent:** 2 hours 45 minutes

### Survey (Waypoints, photos, and narrative)

Road #4177 starts at the junction of #299-B1, which is a completely vegetated two-track. Road #4177 is barely distinguishable at times when it goes through grassy meadows where the road bed has been naturally revegetated with sagebrush and bluebunch wheatgrass. In areas with forest canopy, there are conifer encroachment occurs due to mature Douglas fir, ponderosa pine, and lodgepole pine on the edges of the road as well as 1 to 4 foot tall seedling/sapling regeneration within the road bed. There are also areas where there would need to be large rock and wind blown dead fall removal for equipment to pass. The road bed varies from about 4 to 15 feet in width. No noxious weeds were observed during survey. Elk and deer sign was abundant throughout.



#4177 Colorado Mountain Trail. Waypoints 06-11.

Google Earth screen-shot of Colorado Mountain, #4177 in Tenmile IRA. Center left shows Blackhall Meadows with Colorado Mountain in right center, and the base of Red Mountain in upper left. Chessman Road, which follows Beaver Creek, can be seen going across the top of the image.

### WAYPOINTS

Waypoint Name	Latitude	Longitude	Date and Time
WAYPOINT 006	46.49400	-112.20394	16-MAY-2020 16:45
WAYPOINT 007	46.49766	-112.20438	16-MAY-2020 17:20
WAYPOINT 008	46.49978	-112.20592	16-MAY-2020 17:35
WAYPOINT 009	46.50320	-112.20568	16-MAY-2020 17:50
WAYPOINT 010	46.50570	-112.20699	16-MAY-2020 18:10
WAYPOINT 011	46.50402	-112.20821	16-MAY-2020 18:30

**PHOTOS TAKEN AT EACH WAYPOINT**



WAYPOINT 006 – Junction of #299-B1 and #4177. Vegetated old two track road bed, south photo direction 6 foot road width.



WAYPOINT 006 – Start of #4177. Barely distinguishable road bed with trail running through middle, north photo direction, 6 foot road width.



WAYPOINT 007 – Road bed encroachment by sagebrush and lodgepole pine, Douglas fir, and ponderosa pine regeneration, south photo direction, 12-15 foot road width.



WAYPOINT 007 - Road bed encroachment by lodgepole pine, Douglas fir, and ponderosa pine regeneration, mature Douglas fir on sides of road bed, north photo direction, 12-15 foot road width.



WAYPOINT 008 – Barely distinguishable road bed with faint trail in grassy meadow, some large rocks, SW photo direction, 4 foot road width.



WAYPOINT 008 - Barely distinguishable road bed with faint trail in grassy meadow, some large rocks, SW photo direction, 4 foot road width, Douglas fir and lodgepole pine on west side of road and some conifer regeneration seedling/saplings in road bed.



WAYPOINT 009 – Old road bed with lodgepole and Douglas fir saplings, some large rocks on west side of road, SW photo direction, 8-10 foot road width.



WAYPOINT 009 - Old road bed with lodgepole and Douglas fir saplings, some large rocks on west side of road, NE photo direction, 8-10 foot road width.



WAYPOINT 010 – Old road bed, some large rocks, wind blown dead fall, SE photo direction, 8 foot road width.



WAYPOINT 010 - Old road bed, some large rocks, wind blown dead fall and snow, NW photo direction, 8 foot road width.



WAYPOINT 011 – End of #4177. Old road bed, some rocks and herbaceous undergrowth, NW photo direction, 10 foot road width.



WAYPOINT 011 – End of #4177 on top of Colorado Mountain. Old road bed, some rocks and herbaceous undergrowth, SE photo direction, 10 foot road width.

Field Form

Big Bear  
 @ 46.48983  
 -112.20102

Red sign

HELENA HUNTERS & ANGLERS FIELD ANALYSIS OF TSH PROJECT TRANSPORTION/RD CLOSURE MAP							Technician: C. Westfall				
Route Location: Access from 299-B1 - Colorado mtn trail			Route# (from map): 4177		(Lazyman) Jericho (circle)						
Date: 5/10/2020	Time Out: 16:45	Time In: 19:30	Duration: 2 hr 45	Waypoint every 300'	300-400 400-485	Pg 1 of 1					
GPS Model/ID: Garmin GPS map 645	Datum: NAD83		Slope: flat, gentle, moderate, steep								
Comments: Eg: Improvements needed for heavy equipment? Big rocks, Tree removal											
Field Tools: GPS, map, camera, clip board, field forms, compass, pencils, batteries, personal gear (sunglasses, hat)											
Time	Wpt	Steps	Phto#	Description (of photo)	Aspect	Width'	Slope	Water	Comments	Lat-Long/UTM	Tree Remark
16:45	006	0	5604	Barely distinguishable bed, well used trail in middle LP region	190°	10'	G	N	grazed meadow	46.49400, -112.203	94 LP regen #2 1-1.5' tall
			5605	Barely distinguishable bed, well used trail in middle LP region	10°	10'	G	N	grazed meadow		95 LP 2 → 2' tall
17:20	007	420	5614	Road bed encroachment by sagebrush	170°	12-15'	M	N	old trail, dense brush	46.49700, -112.20	93 LP 2 → 4.5' tall
			5615	Some mature DF on sides of road bed	350°	12-15'	M	N	old trail, dense brush	75-120' 46.49700	94 LP 2 → 0.5-1' tall
17:35	008	840	5606	Barely distinguishable bed in grassy meadow, faint trail	200°	4'?	G	N	grazed meadow	46.49978, -112.20	92 LP 2 → 3' tall
			5607	Narrow faint bed w/ trail DF & LP mature trees on W side	20°	8'	G	N	grazed meadow		92 ground squirrels
17:50	009	1260	5608	Old road bed w/ trail, some LP regen seedlings & mature trees	210°	8-10'	G	N	old road bed	46.50320, -112.20	93 LP 2 → 0.5-2' tall
			5609	Some large rocks on	30°	8-10'	G	N	old road bed		94 LP 2 → 1' tall
18:10	010	1670	5610	Narrow old road bed - down trees	150°	8'	G	N	old road bed	46.50570, -112.20	94 LP regen on sides
			5611	Narrow old road bed - snow	320°	8'	G	N	old road bed	LP # 3 1-1.5' tall	94 #2 4' tall #1 2' tall
18:30	011	2100	5612	Narrow old road bed - snow	320°	10'	G	N	old road bed	46.50400, -112.20	94 LP # 1 → 2' tall
			5613	Top of Colorado mtn	140°	10'	G	N	old road bed		94 LP 1.5 → 2-2.5' tall