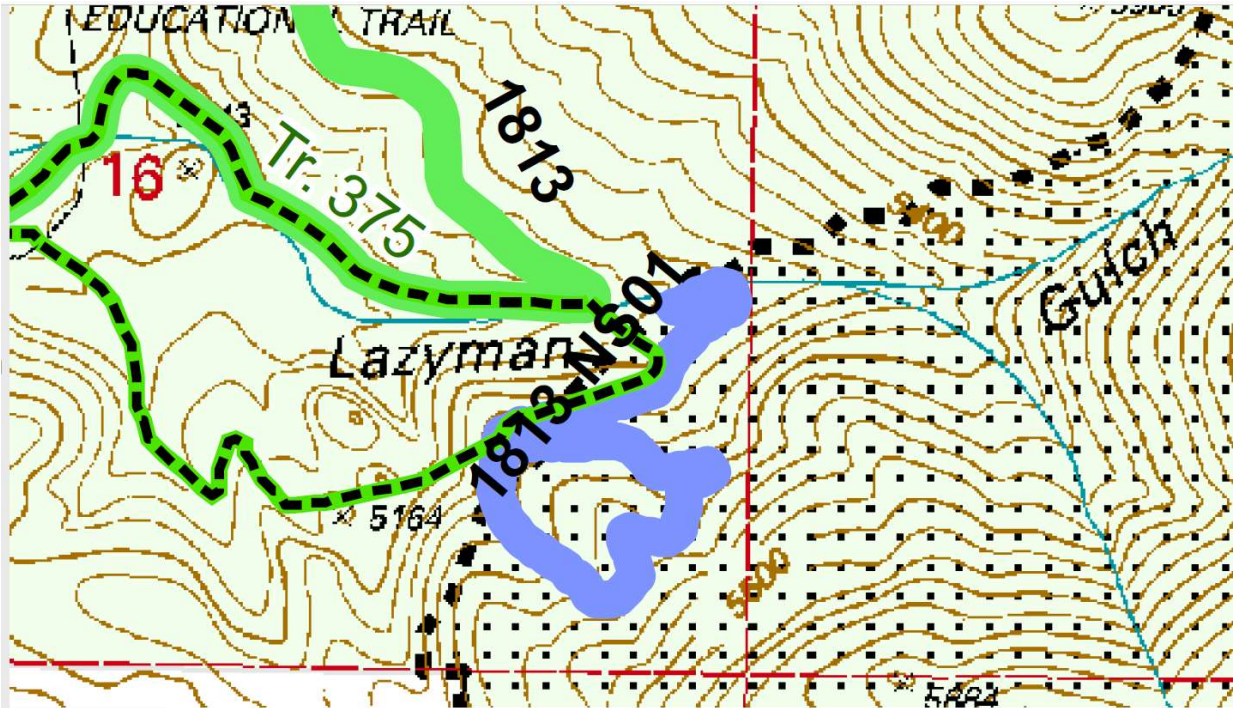
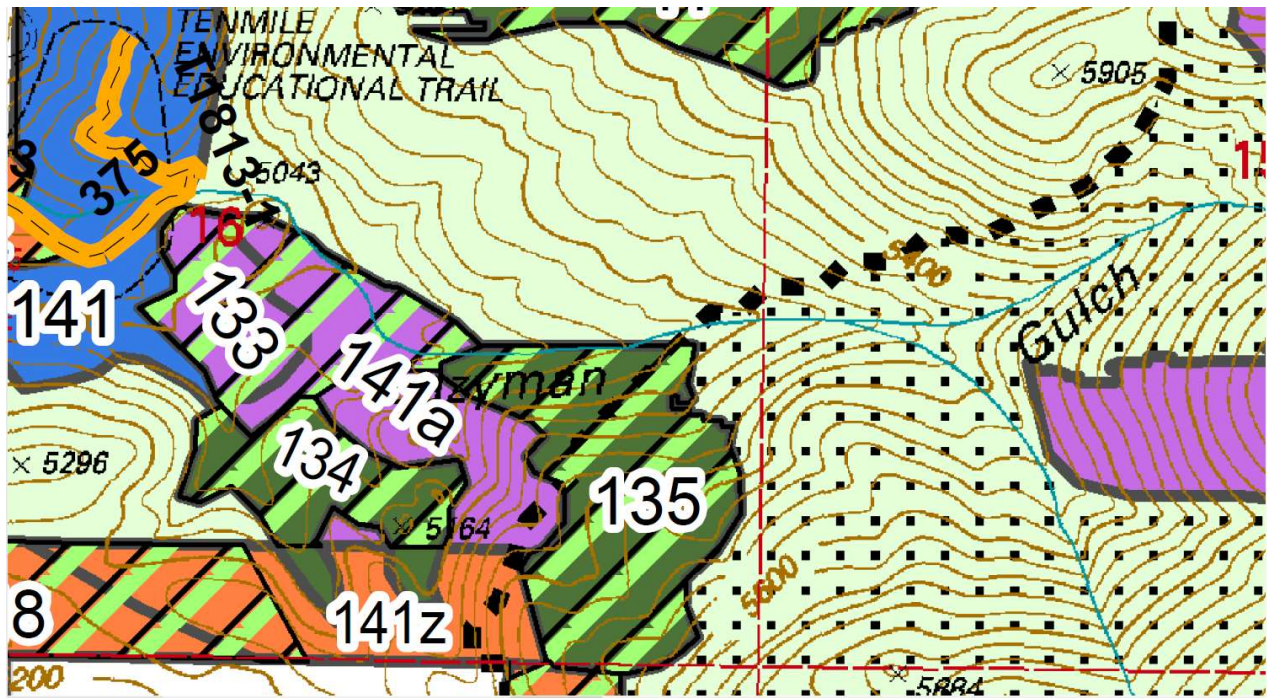


#1813-NS01 (Lazyman Gulch)



Above: Lazyman "road" 1813-NS01 within the Inventoried Roadless Area Boundary. Below: Harvest Unit 135 would be accessed by 1813-NS01



Unit 135 = Light green slash indicates: "In addition to harvest units, planned areas of mechanized treatments" while the dark green indicates: "Precommercial thinning" from Legend in Tenmile-South Helena Record of Decision Vegetation Treatment map.

## **SURVEY OF #1813 and 1813-NS01 Waypoints 1-16**

**Name of Surveyor:** Nicholas Sovner

**Date(s) surveyed:** May 2, 2020

**GPS Model:** Avenza mapping app

**Datum:** Avenza datum is likely whatever the TMS route map was created in, which is not identifiable in the PDF.

**GPS Position Format:** hddd°mm'ss.s''

**Mapping Apps:** Avenza was used to follow geo-referenced FS Tenmile-South Helena Project Alternative 4 Transportation, Trails, and Road Closure/Obliteration map (D5\_2d\_20161115\_MapTenmileALT4Transport)  
Google Earth 3D waypoint map

**Time spent:** May 2, 2020 = 4 hours, 15 minutes

### **Survey (waypoints, photos, and narrative):**

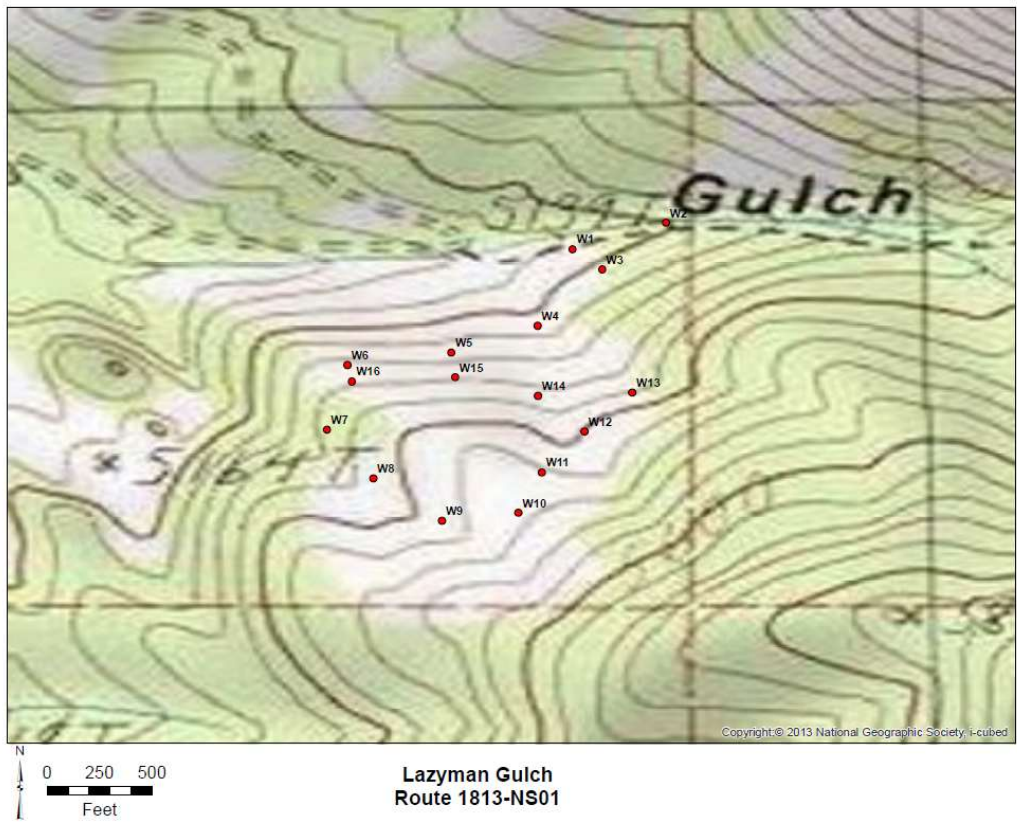
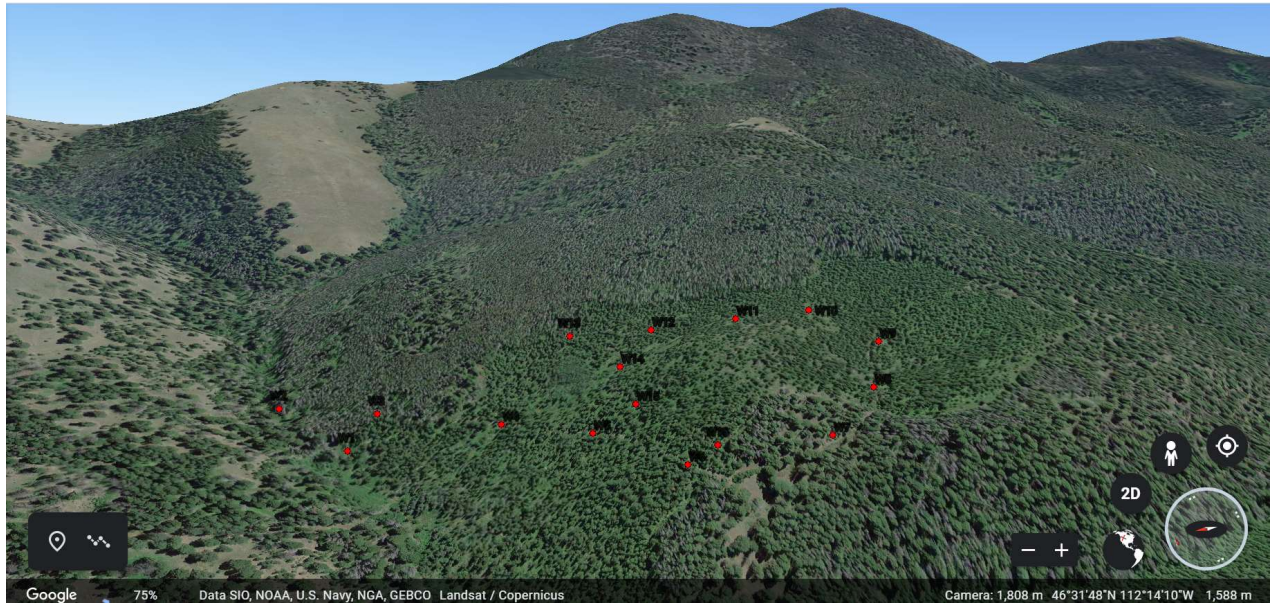
30 feet = 6 paces/12 steps. 300 feet = 60 paces/120 steps

Started hiking from the picnic area. 30 minutes later, arrived at stream crossing along Trail 375, just before entering the Inventoried Roadless Area. On the way in, I initially followed a logging road, but before it turned sharply north, I followed the drainage that came in from the southeast. The trail appeared to have been cleared for hiking with a saw. An educational trail veers off to the right. The logging road I turned off of, appeared to loop back down to the Rimini road.

Road was difficult to find, if not non-existent at the first switchback near waypoint 2. Eventually it picks up again. It occurred to me while hiking that the FS may have flown the whole TMS area with Lidar which would explain their confidence in the ground disturbance but wouldn't account for the vegetation/rehabilitation. Slope and aspect refer to the natural topography and not the route grade. Each photo includes tape measure at 3 feet length; used iphone compass for aspect and slope.

Did not see any weeds during entire route. Much of the route was overgrown and in places hardly discernable from the natural landscape. Heavy sign of elk throughout. Observed one historical feature of a metal, rusted, cable half buried, otherwise generally free of human impacts other than the route itself. In some locations small diameter saplings (1-3" diameter) appeared to have been trimmed near ground surface in the last 10 or so years.

On return to truck, I noticed where trail 375 joins the logging road, the creek goes subsurface in the meadow and doesn't enter the actual stream bed again until a ways past the recently installed culvert at the logging road switchback.



**1813 and 1813-NS01** would occur in live timber stands, as compared to standing dead above. Lazyman parks occur on the left, Black Mountain occurs in upper center, and Colorado Mountain upper right.



Waypoint 1



Waypoint 2



Waypoint 3 [Waypoint 4]



Waypoint 4



Waypoint 5



Waypoint 6



Waypoint 7



Waypoint 8



Waypoint 9



Waypoint 10



Waypoint 11



Waypoint 12



Waypoint 13



Waypoint 14



Waypoint 15



Waypoint 16

FIELD FORM

HELENA HUNTERS & ANGLERS FIELD ANALYSIS OF TSH PROJECT TRANSPORTION/RD CLOSURE MAP										Technician: N. Simev	
Route Location:		L miles off Route Rd		Route# (from map):		1815-N601		Waypoint every 300'		Lazyman Jericho (circle)	
Date:	5-2-10	Time Out:		Time In:	9:00	Duration:		Waypoint every 300'		Pg 1 of 1	
GPS Model/ID:		Phone #R/Avenue/Collector:		Datum:				[Slope: flat, gentle, moderate, steep]			
Comments: Eg: Improvements needed for heavy equipment? Big rocks; Tree removal; Side slope (vehicle would roll); Sharp turns											
Field Tools: GPS, map, camera, clip board, field forms, compass, pencils, batteries, personal gear (sunglasses, hat)											
Time	Wpt	Steps	Photo#	Description (of photo)	Aspect	Width'	Slope	Water	Comments (DD)	Lat-Long/UTM	
0911	W1	0	1	Start of route, spring, down trees, game trail facing east	W	undef	5°	Yes	46.59303	-112.25112	Avenza
0924	W2	120	2	Historic disturbance, several trees down large Ding Fir, dense shrub & understory hill along creek, facing east	W	30'	5°	Yes	46.55313	-112.22993	Avenza
0940	W3	1910	3	Old route, overgrown, moderate trees and understory, game trail, facing south	W	12'	25°	No	46.58263	-112.23073	Avenza
0950	W4	120	4	Old route, overgrown, some downfall game trail crosses just behind photo photo facing SW	WNW	11'	30°	No	46.58195	-112.23160	Avenza
0956	W5	120	5	old route, overgrown, moderate size trees & understory, some blow down facing SW	N	11'	45°	No	46.58156	-112.23271	Avenza
1010	W6	120	6	old route, overgrown, lots of down woody debris, some blow down, facing SW	N	12'	35°	No	46.53140	-112.23397	Avenza
1020	W7	120	7	Old route, overgrown, gets narrower as it ascends hill, some blow down facing SE	W	10'	78°	No	46.53056	-112.23424	Avenza
1027	W8	120	8	Trail narrows and is less defined, lots of blow down, understory, moderate size trees, facing east	W	8'	10°	No	46.52976	-112.23369	Avenza
1048	W9	120	9	Old route hard to discern, moderate blow down, thick understory, 'rustling' nearby, facing SE	W	9'	17°	No	46.52929	-112.23279	Avenza
1052	W10	120	10	Historic route, understory overgrown, moderate down woody debris, facing N	W	9'	16°	No	46.52938	-112.23181	Avenza
1100	W11	120	11	Old route, understory overgrown, moderate down woody debris, facing N, thick tree growth in route, dense mat of kinnikinnick, some snow, facing E	N	11'	18°	No	46.53004	-112.23199	Avenza

HELENA HUNTERS & ANGLERS FIELD ANALYSIS OF TSH PROJECT TRANSPORT/RD CLCSURE MAP										Technician: N. Sever	
Route Location:		L miles of Runni Rd			Route# (from map):		1813-1501		Lazyman Jericho (circle)		
Date:	5-2-20	Time Out:		Time In:	9:00	Duration:		Waypoint every 300'		PG # of	
GPS Model/ID:	iPhone XR / Avenida (tablet)		Datum:						[Slope: flat, gentle, moderate, steep]		
Comments: Eg: Improvements needed for heavy equipment? Big rocks; Tree removal; Side slope (vehicle would roll); Sharp turns											
Field Tools: GPS, map, camera, clipboard, field forms, compass, pencils, batteries, personal gear (sunglasses, hat)											
Time	Wpt	Steps	Photo#	Description (of photo)	Aspect	Width'	Slope	Water	Comments (PD)	Lat-Long/UTM	
911	W1	0	1	Start of route, spring, down trees, game trail	W	undef	5%	Yes	46.53303	-112.23112	Avenida
				Facing east							
926	W2	120	2	Historic disturbance, several trees down	W	30'	5%	Yes	46.53313	-112.23113	Avenida
				Large Dog Fir, dense shrub & understory							
				Still along creek, facing east							
946	W3	190	3	Old route, overgrown, moderate trees	W	12'	25%	No	46.53263	-112.23075	Avenida
				and understory, game trail, facing south							
950	W4	120	4	Old route, overgrown, some downfall	WNW	11'	30°	No	46.53195	-112.23160	Avenida
				game trail crosses just behind photo							
				Photo facing SW							
956	W5	120	5	old route, overgrown, moderate size	N	11'	45°	No	46.53156	-112.23171	Avenida
				trees & understory, some blow down							
				Facing SW							
1010	W6	120	6	Old route, overgrown, lots of down	N	12'	35°	No	46.53140	-112.23197	Avenida
				woody debris, some blow down							
				Facing SW							
1020	W7	120	7	Old route, overgrown, gets narrower as	W	10'	78°	No	46.53050	-112.23124	Avenida
				it ascends hill, some blow down							
				Facing SE							
1027	W8	120	8	Trail narrows and is less defined,	W	8'	10°	No	46.52976	-112.23169	Avenida
				lots of blow down, understory &							
				moderate fir trees, Facing east							
1045	W9	120	9	Old route hard to discern, moderate	W	9'	17°	No	46.52929	-112.23177	Avenida
				blow down, thick understory,							
				'rustling' nearby, Facing SE							
1052	W10	120	10	Historic route, understory overgrown,	W	9'	16°	No	46.52938	-112.23181	Avenida
				moderate down woody debris, Facing N							
1100	W11	120	11	Elk shit, water down feature in route,	W	11'	18°	No	46.53004	-112.23149	Avenida
				thick tree growth in route, dense							
				mat of kinnikinnick, some snow, Facing E							