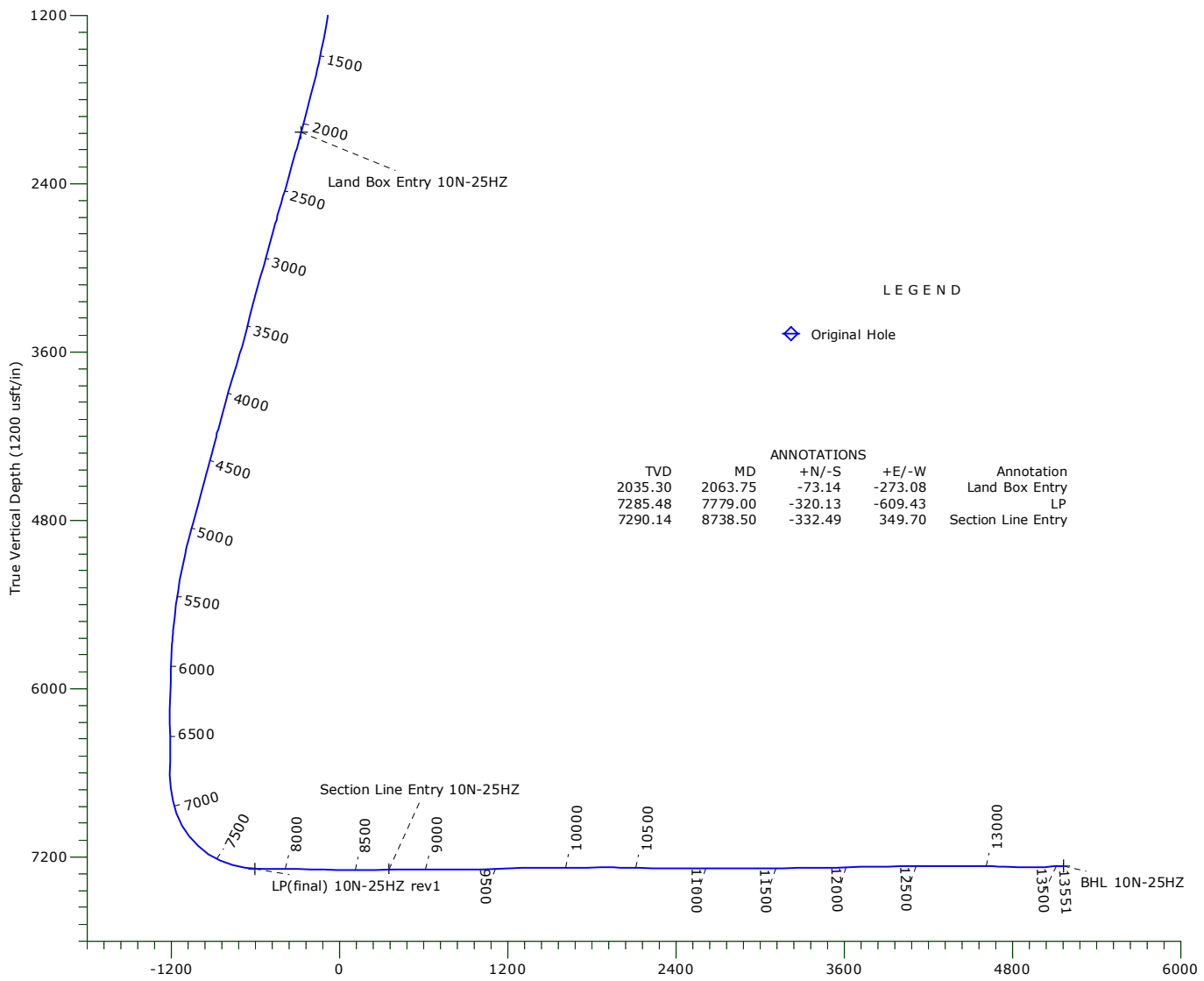
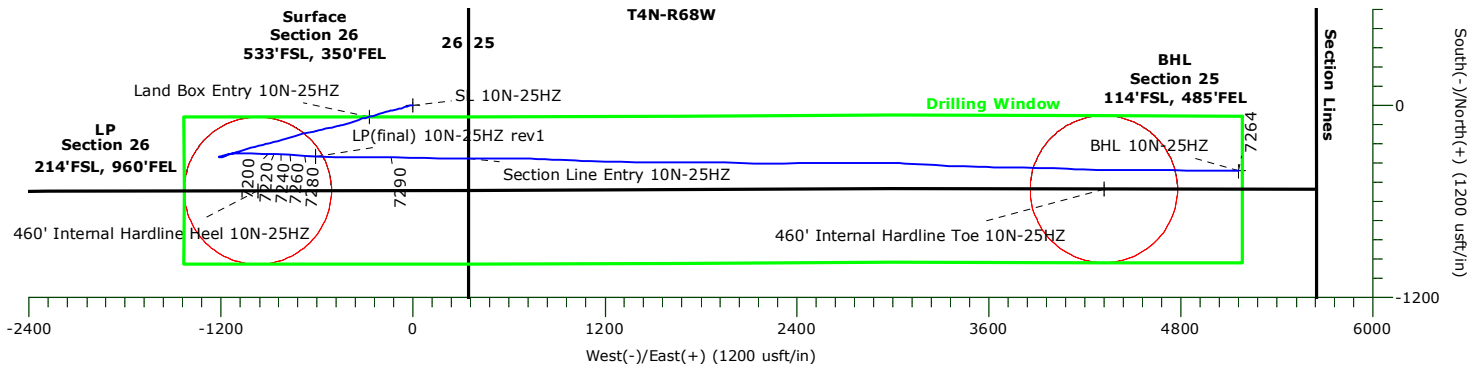




US ROCKIES WATTENBERG PLANNING

Project: WELD-NAD83-UTMFT13N
 Site: Wilson Ranch 16-26HZ Pad
 Well: Whisper Rock 10N-25HZ
 Wellbore: Original Hole
 Design: Original Hole



Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
460' Internal Hardline Heel 10N-25HZ	-1.00	-533.55	-969.20	14627741.86	1650054.31	40.277377°N	104.965446°W	Circle (Radius: 460.00)
460' Internal Hardline Toe 10N-25HZ	-1.00	-524.28	4319.06	14627753.40	1655342.56	40.277401°N	104.946486°W	Circle (Radius: 460.00)
SL 10N-25HZ	0.00	0.00	0.00	14628275.83	1651023.28	40.278842°N	104.961971°W	Point
Land Box Entry 10N-25HZ	2035.30	-73.14	-273.08	14628202.57	1650750.23	40.278641°N	104.962950°W	Point
BHL 10N-25HZ	7263.75	-412.07	5159.80	14627865.98	1656183.25	40.277709°N	104.943471°W	Point
LP(final) 10N-25HZ rev1	7285.48	-320.13	-609.43	14627955.43	1650413.98	40.277963°N	104.964156°W	Point
Section Line Entry 10N-25HZ	7290.14	-332.49	349.70	14627943.49	1651373.12	40.277929°N	104.960717°W	Point

Precision Drilling Corporation

Survey Report

Company: US ROCKIES WATTENBERG PLANNING	Local Co-ordinate Reference: Well Whisper Rock 10N-25HZ
Project: WELD-NAD83-UTMFT13N	TVD Reference: 5072'GL+20'KB @ 5092.00usft (PD460)
Site: Wilson Ranch 16-26HZ Pad	MD Reference: 5072'GL+20'KB @ 5092.00usft (PD460)
Well: Whisper Rock 10N-25HZ	North Reference: True
Wellbore: Original Hole	Survey Calculation Method: Minimum Curvature
Design: Original Hole	Database: Single User

Project WELD-NAD83-UTMFT13N	
Map System: Universal Transverse Mercator (US Survey Fee	System Datum: Mean Sea Level
Geo Datum: North American Datum 1983	
Map Zone: Zone 13N (108 W to 102 W)	

Site Wilson Ranch 16-26HZ Pad			
Site Position:	Northing: 14,628,290.77 usft	Latitude: 40.278883°N	
From: Lat/Long	Easting: 1,651,023.27 usft	Longitude: 104.961971°W	
Position Uncertainty: 0.00 usft	Slot Radius: 13-3/16 "	Grid Convergence: 0.02 °	

Well Whisper Rock 10N-25HZ			
Well Position	+N/-S 0.00 usft	Northing: 14,628,275.83 usft	Latitude: 40.278842°N
	+E/-W 0.00 usft	Easting: 1,651,023.27 usft	Longitude: 104.961971°W
Position Uncertainty	3.28 usft	Wellhead Elevation: 0.00 usft	Ground Level: 5,072.00 usft

Wellbore Original Hole

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	11/04/15	8.48	66.77	52,491

Design Original Hole

Audit Notes:			
Version: 1.0	Phase: ACTUAL	Tie On Depth:	0.00

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	90.79

Survey Program		Date			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
10.00	1,798.00	Survey #1 (Original Hole)	APC_ISCWSA REV 2 MW	Fixed:v2:standard declination	
1,931.00	13,484.00	Survey #2 (Original Hole)	APC_ISCWSA REV 2 MW	Fixed:v2:Rockies, crustal dec + 3-axis correction	
13,551.00	13,551.00	Survey #3 (Original Hole)	APC_BLIND	OWSG BLIND	

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
SL 10N-25HZ - 460' Internal Hardline Toe 10N-25HZ - 460' Internal Hardline Heel 10N-25HZ										
10.00	0.00	0.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00	
96.00	0.17	73.18	96.00	0.04	0.12	0.12	0.20	0.20	0.00	
187.00	0.40	32.91	187.00	0.34	0.42	0.42	0.32	0.25	-44.25	
276.00	0.48	286.47	276.00	0.71	0.24	0.23	0.79	0.09	-119.60	
382.00	1.85	259.29	381.97	0.52	-1.87	-1.88	1.36	1.29	-25.64	
472.00	3.06	262.98	471.89	-0.05	-5.68	-5.68	1.36	1.34	4.10	
562.00	4.20	262.63	561.71	-0.76	-11.34	-11.32	1.27	1.27	-0.39	

Precision Drilling Corporation

Survey Report

Company:	US ROCKIES WATTENBERG PLANNING	Local Co-ordinate Reference:	Well Whisper Rock 10N-25HZ
Project:	WELD-NAD83-UTMFT13N	TVD Reference:	5072'GL+20'KB @ 5092.00usft (PD460)
Site:	Wilson Ranch 16-26HZ Pad	MD Reference:	5072'GL+20'KB @ 5092.00usft (PD460)
Well:	Whisper Rock 10N-25HZ	North Reference:	True
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Single User

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
652.00	4.94	256.13	651.42	-2.11	-18.37	-18.34	1.00	0.82	-7.22
742.00	5.81	251.60	741.02	-4.48	-26.45	-26.39	1.07	0.97	-5.03
832.00	6.12	253.71	830.54	-7.27	-35.38	-35.28	0.42	0.34	2.34
922.00	6.03	249.44	920.03	-10.27	-44.41	-44.26	0.51	-0.10	-4.74
1,012.00	7.35	252.71	1,009.42	-13.64	-54.33	-54.14	1.53	1.47	3.63
1,102.00	8.01	255.97	1,098.61	-16.87	-65.91	-65.68	0.88	0.73	3.62
1,192.00	9.45	258.01	1,187.57	-19.93	-79.23	-78.94	1.64	1.60	2.27
1,282.00	10.90	254.37	1,276.15	-23.76	-94.65	-94.31	1.76	1.61	-4.04
1,373.00	11.62	255.65	1,365.40	-28.35	-111.81	-111.41	0.84	0.79	1.41
1,463.00	11.61	257.64	1,453.55	-32.53	-129.44	-128.98	0.45	-0.01	2.21
1,553.00	12.62	256.39	1,541.55	-36.78	-147.84	-147.32	1.16	1.12	-1.39
1,643.00	13.96	256.17	1,629.14	-41.69	-167.94	-167.35	1.49	1.49	-0.24
1,733.00	14.98	253.73	1,716.28	-47.55	-189.65	-188.98	1.32	1.13	-2.71
1,798.00	15.76	252.52	1,778.96	-52.55	-206.13	-205.39	1.30	1.20	-1.86
1,931.00	14.96	251.12	1,907.20	-63.53	-239.60	-238.71	0.66	-0.60	-1.05
2,025.00	15.31	255.17	1,997.95	-70.63	-263.08	-262.08	1.18	0.37	4.31
2,063.75	15.56	256.69	2,035.30	-73.14	-273.08	-272.05	1.23	0.64	3.94
Land Box Entry 10N-25HZ									
2,118.00	15.92	258.75	2,087.52	-76.27	-287.46	-286.38	1.23	0.67	3.79
2,213.00	17.75	255.87	2,178.44	-82.34	-314.29	-313.12	2.12	1.93	-3.03
2,306.00	15.83	249.08	2,267.48	-90.33	-339.89	-338.61	2.95	-2.06	-7.30
2,400.00	16.56	248.05	2,357.75	-99.92	-364.29	-362.87	0.83	0.78	-1.10
2,493.00	16.43	251.24	2,446.93	-109.10	-389.03	-387.49	0.98	-0.14	3.43
2,587.00	17.56	255.20	2,536.82	-117.00	-415.33	-413.68	1.72	1.20	4.21
2,681.00	17.16	260.43	2,626.55	-122.93	-442.72	-440.98	1.71	-0.43	5.56
2,775.00	15.70	255.08	2,716.71	-128.51	-468.68	-466.87	2.24	-1.55	-5.69
2,868.00	16.01	255.30	2,806.17	-135.00	-493.25	-491.34	0.34	0.33	0.24
2,960.00	14.83	258.50	2,894.86	-140.57	-517.06	-515.07	1.58	-1.28	3.48
3,053.00	15.91	259.00	2,984.53	-145.38	-541.23	-539.18	1.17	1.16	0.54
3,146.00	16.29	257.24	3,073.89	-150.69	-566.47	-564.34	0.67	0.41	-1.89
3,238.00	16.77	257.08	3,162.08	-156.51	-591.99	-589.78	0.52	0.52	-0.17
3,331.00	14.66	253.73	3,251.60	-162.81	-616.37	-614.06	2.47	-2.27	-3.60
3,423.00	14.86	256.72	3,340.57	-168.78	-639.02	-636.64	0.86	0.22	3.25
3,515.00	15.30	259.71	3,429.40	-173.65	-662.45	-659.99	0.97	0.48	3.25
3,609.00	15.02	256.43	3,520.13	-178.73	-686.49	-683.96	0.96	-0.30	-3.49
3,702.00	16.49	255.59	3,609.64	-184.84	-710.99	-708.38	1.60	1.58	-0.90
3,796.00	17.61	255.31	3,699.50	-191.77	-737.67	-734.95	1.19	1.19	-0.30
3,889.00	17.59	253.84	3,788.15	-199.25	-764.77	-761.95	0.48	-0.02	-1.58
3,983.00	16.92	253.54	3,877.92	-207.07	-791.54	-788.60	0.72	-0.71	-0.32
4,078.00	16.09	251.64	3,969.01	-215.14	-817.29	-814.24	1.04	-0.87	-2.00
4,171.00	15.77	256.25	4,058.44	-222.20	-841.80	-838.65	1.40	-0.34	4.96
4,265.00	15.99	256.38	4,148.85	-228.29	-866.79	-863.56	0.24	0.23	0.14
4,358.00	13.89	255.82	4,238.70	-234.04	-890.06	-886.75	2.26	-2.26	-0.60

Precision Drilling Corporation

Survey Report

Company:	US ROCKIES WATTENBERG PLANNING	Local Co-ordinate Reference:	Well Whisper Rock 10N-25HZ
Project:	WELD-NAD83-UTMFT13N	TVD Reference:	5072'GL+20'KB @ 5092.00usft (PD460)
Site:	Wilson Ranch 16-26HZ Pad	MD Reference:	5072'GL+20'KB @ 5092.00usft (PD460)
Well:	Whisper Rock 10N-25HZ	North Reference:	True
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Single User

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/S (usft)	+E/W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,451.00	15.11	255.21	4,328.74	-239.87	-912.60	-909.21	1.32	1.31	-0.66
4,543.00	17.24	256.54	4,417.09	-246.10	-937.46	-933.98	2.35	2.32	1.45
4,635.00	15.18	256.20	4,505.43	-252.15	-962.42	-958.85	2.24	-2.24	-0.37
4,728.00	15.23	253.58	4,595.17	-258.51	-985.96	-982.30	0.74	0.05	-2.82
4,820.00	15.40	254.77	4,683.91	-265.13	-1,009.34	-1,005.59	0.39	0.18	1.29
4,913.00	17.11	252.97	4,773.19	-272.38	-1,034.34	-1,030.48	1.92	1.84	-1.94
5,005.00	15.60	251.27	4,861.46	-280.32	-1,058.99	-1,055.03	1.72	-1.64	-1.85
5,097.00	14.84	254.76	4,950.24	-287.39	-1,082.08	-1,078.01	1.29	-0.83	3.79
5,189.00	12.02	252.23	5,039.71	-293.41	-1,102.57	-1,098.42	3.13	-3.07	-2.75
5,282.00	12.29	253.16	5,130.63	-299.23	-1,121.26	-1,117.03	0.36	0.29	1.00
5,374.00	12.18	251.24	5,220.54	-305.19	-1,139.83	-1,135.51	0.46	-0.12	-2.09
5,466.00	9.64	250.75	5,310.87	-310.85	-1,156.29	-1,151.89	2.76	-2.76	-0.53
5,559.00	7.79	249.52	5,402.79	-315.63	-1,169.55	-1,165.08	2.00	-1.99	-1.32
5,652.00	6.31	245.24	5,495.09	-319.97	-1,180.09	-1,175.57	1.69	-1.59	-4.60
5,745.00	6.00	249.89	5,587.55	-323.78	-1,189.30	-1,184.72	0.63	-0.33	5.00
5,838.00	3.19	270.57	5,680.25	-325.43	-1,196.45	-1,191.85	3.46	-3.02	22.24
5,931.00	2.46	280.37	5,773.13	-325.04	-1,201.00	-1,196.41	0.94	-0.78	10.54
6,027.00	2.08	281.47	5,869.06	-324.33	-1,204.74	-1,200.15	0.40	-0.40	1.15
6,119.00	1.64	270.94	5,961.01	-323.97	-1,207.69	-1,203.11	0.60	-0.48	-11.45
6,213.00	1.23	281.00	6,054.98	-323.76	-1,210.03	-1,205.45	0.51	-0.44	10.70
6,307.00	1.02	278.92	6,148.96	-323.44	-1,211.84	-1,207.27	0.23	-0.22	-2.21
6,402.00	0.87	58.01	6,243.96	-322.92	-1,212.07	-1,207.50	1.86	-0.16	146.41
6,495.00	0.42	17.61	6,336.95	-322.22	-1,211.36	-1,206.81	0.66	-0.48	-43.44
6,588.00	0.39	348.20	6,429.95	-321.59	-1,211.33	-1,206.78	0.22	-0.03	-31.62
6,680.00	0.43	329.17	6,521.95	-320.99	-1,211.57	-1,207.03	0.15	0.04	-20.68
6,773.00	0.12	331.78	6,614.95	-320.60	-1,211.79	-1,207.26	0.33	-0.33	2.81
6,867.00	6.46	83.22	6,708.75	-319.89	-1,206.58	-1,202.06	6.92	6.74	118.55
6,961.00	12.65	74.63	6,801.40	-316.53	-1,191.39	-1,186.91	6.74	6.59	-9.14
7,055.00	21.31	74.68	6,891.22	-309.28	-1,164.94	-1,160.57	9.21	9.21	0.05
7,149.00	28.42	83.13	6,976.48	-302.08	-1,126.20	-1,121.93	8.44	7.56	8.99
7,243.00	37.83	91.21	7,055.15	-300.01	-1,075.03	-1,070.79	11.04	10.01	8.60
7,336.00	48.46	91.58	7,122.91	-301.57	-1,011.54	-1,007.29	11.43	11.43	0.40
7,430.00	56.79	90.29	7,179.92	-302.74	-936.92	-932.66	8.93	8.86	-1.37
7,524.00	64.77	92.48	7,225.78	-304.79	-854.98	-850.70	8.73	8.49	2.33
7,618.00	72.96	94.46	7,259.64	-310.13	-767.55	-763.20	8.93	8.71	2.11
7,712.00	82.26	93.56	7,279.79	-316.53	-676.06	-671.63	9.94	9.89	-0.96
7,779.01	88.00	92.64	7,285.48	-320.13	-609.42	-604.95	8.67	8.56	-1.38
LP(final) 10N-25HZ rev1									
7,805.00	90.22	92.28	7,285.88	-321.25	-583.46	-578.97	8.67	8.56	-1.37
7,899.00	90.97	91.93	7,284.91	-324.70	-489.53	-485.01	0.88	0.80	-0.37
7,993.00	89.16	90.02	7,284.80	-326.30	-395.55	-391.01	2.80	-1.93	-2.03
8,087.00	88.95	88.58	7,286.35	-325.15	-301.57	-297.06	1.55	-0.22	-1.53
8,181.00	88.55	90.17	7,288.40	-324.13	-207.60	-203.12	1.74	-0.43	1.69
8,274.00	88.95	90.40	7,290.43	-324.59	-114.63	-110.14	0.50	0.43	0.25

Precision Drilling Corporation

Survey Report

Company:	US ROCKIES WATTENBERG PLANNING	Local Co-ordinate Reference:	Well Whisper Rock 10N-25HZ
Project:	WELD-NAD83-UTMFT13N	TVD Reference:	5072'GL+20'KB @ 5092.00usft (PD460)
Site:	Wilson Ranch 16-26HZ Pad	MD Reference:	5072'GL+20'KB @ 5092.00usft (PD460)
Well:	Whisper Rock 10N-25HZ	North Reference:	True
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Single User

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/S (usft)	+E/W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
8,368.00	88.51	91.96	7,292.52	-326.53	-20.67	-16.17	1.72	-0.47	1.66	
8,460.00	89.62	91.59	7,294.02	-329.37	71.27	75.80	1.27	1.21	-0.40	
8,555.00	90.52	90.65	7,293.90	-331.23	166.25	170.80	1.37	0.95	-0.99	
8,648.00	91.30	90.68	7,292.42	-332.31	259.23	263.79	0.84	0.84	0.03	
8,738.50	91.60	89.55	7,290.14	-332.49	349.70	354.25	1.29	0.33	-1.25	
Section Line Entry 10N-25HZ										
8,743.00	91.61	89.49	7,290.01	-332.45	354.20	358.75	1.29	0.33	-1.25	
8,838.00	90.39	89.19	7,288.35	-331.36	449.17	453.70	1.32	-1.28	-0.32	
8,932.00	90.09	89.88	7,287.96	-330.59	543.17	547.68	0.80	-0.32	0.73	
9,027.00	89.33	91.31	7,288.44	-331.58	638.16	642.67	1.70	-0.80	1.51	
9,122.00	89.88	92.46	7,289.10	-334.71	733.10	737.65	1.34	0.58	1.21	
9,215.00	89.57	91.28	7,289.54	-337.74	826.05	830.63	1.31	-0.33	-1.27	
9,309.00	90.55	92.75	7,289.44	-341.05	919.99	924.60	1.88	1.04	1.56	
9,404.00	91.11	92.87	7,288.07	-345.70	1,014.87	1,019.54	0.60	0.59	0.13	
9,498.00	91.31	91.84	7,286.08	-349.56	1,108.76	1,113.48	1.12	0.21	-1.10	
9,593.00	91.57	91.49	7,283.69	-352.32	1,203.69	1,208.44	0.46	0.27	-0.37	
9,688.00	92.47	89.95	7,280.35	-353.52	1,298.62	1,303.37	1.88	0.95	-1.62	
9,781.00	90.60	90.71	7,277.85	-354.05	1,391.58	1,396.33	2.17	-2.01	0.82	
9,874.00	91.13	90.36	7,276.45	-354.92	1,484.57	1,489.32	0.68	0.57	-0.38	
9,969.00	89.68	90.68	7,275.78	-355.78	1,579.56	1,584.31	1.56	-1.53	0.34	
10,061.00	89.47	89.86	7,276.46	-356.22	1,671.56	1,676.31	0.92	-0.23	-0.89	
10,154.00	91.37	90.29	7,275.78	-356.34	1,764.55	1,769.29	2.09	2.04	0.46	
10,246.00	89.74	90.19	7,274.89	-356.72	1,856.54	1,861.28	1.78	-1.77	-0.11	
10,339.00	89.43	90.98	7,275.56	-357.67	1,949.53	1,954.28	0.91	-0.33	0.85	
10,432.00	88.30	91.89	7,277.40	-360.00	2,042.48	2,047.25	1.56	-1.22	0.98	
10,524.00	88.67	91.38	7,279.84	-362.63	2,134.41	2,139.21	0.68	0.40	-0.55	
10,617.00	88.96	90.19	7,281.76	-363.90	2,227.38	2,232.19	1.32	0.31	-1.28	
10,709.00	90.45	89.77	7,282.23	-363.87	2,319.38	2,324.17	1.68	1.62	-0.46	
10,802.00	90.33	88.14	7,281.60	-362.17	2,412.36	2,417.12	1.76	-0.13	-1.75	
10,896.00	90.17	90.93	7,281.19	-361.41	2,506.34	2,511.09	2.97	-0.17	2.97	
10,991.00	90.10	88.65	7,280.97	-361.06	2,601.34	2,606.07	2.40	-0.07	-2.40	
11,085.00	90.45	89.92	7,280.52	-359.89	2,695.33	2,700.03	1.40	0.37	1.35	
11,179.00	89.51	88.98	7,280.55	-358.98	2,789.32	2,794.00	1.41	-1.00	-1.00	
11,274.00	89.99	90.97	7,280.96	-358.94	2,884.31	2,888.99	2.15	0.51	2.09	
11,368.00	88.60	90.94	7,282.12	-360.51	2,978.29	2,982.98	1.48	-1.48	-0.03	
11,462.00	90.27	92.79	7,283.05	-363.57	3,072.23	3,076.95	2.65	1.78	1.97	
11,556.00	91.97	93.13	7,281.21	-368.42	3,166.08	3,170.86	1.84	1.81	0.36	
11,651.00	89.45	92.53	7,280.03	-373.11	3,260.95	3,265.79	2.73	-2.65	-0.63	
11,743.00	91.03	93.57	7,279.65	-378.01	3,352.82	3,357.71	2.06	1.72	1.13	
11,836.00	90.31	91.62	7,278.56	-382.22	3,445.71	3,450.65	2.23	-0.77	-2.10	
11,928.00	91.54	91.63	7,277.07	-384.82	3,537.66	3,542.63	1.34	1.34	0.01	
12,021.00	92.49	90.58	7,273.80	-386.62	3,630.58	3,635.57	1.52	1.02	-1.13	
12,113.00	91.76	91.02	7,270.39	-387.90	3,722.51	3,727.50	0.93	-0.79	0.48	

Precision Drilling Corporation

Survey Report

Company:	US ROCKIES WATTENBERG PLANNING	Local Co-ordinate Reference:	Well Whisper Rock 10N-25HZ
Project:	WELD-NAD83-UTMFT13N	TVD Reference:	5072'GL+20'KB @ 5092.00usft (PD460)
Site:	Wilson Ranch 16-26HZ Pad	MD Reference:	5072'GL+20'KB @ 5092.00usft (PD460)
Well:	Whisper Rock 10N-25HZ	North Reference:	True
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Single User

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,206.00	89.78	91.43	7,269.14	-389.89	3,815.47	3,820.49	2.17	-2.13	0.44
12,300.00	90.80	91.25	7,268.67	-392.09	3,909.44	3,914.48	1.10	1.09	-0.19
12,393.00	89.86	91.94	7,268.13	-394.68	4,002.41	4,007.47	1.25	-1.01	0.74
12,486.00	91.27	92.42	7,267.21	-398.21	4,095.33	4,100.43	1.60	1.52	0.52
12,579.00	90.04	91.34	7,266.15	-401.26	4,188.27	4,193.41	1.76	-1.32	-1.16
12,672.00	90.65	91.09	7,265.59	-403.24	4,281.25	4,286.40	0.71	0.66	-0.27
12,764.00	88.93	90.40	7,265.93	-404.43	4,373.24	4,378.40	2.01	-1.87	-0.75
12,857.00	89.11	90.36	7,267.52	-405.05	4,466.22	4,471.38	0.20	0.19	-0.04
12,949.00	90.31	90.43	7,267.98	-405.68	4,558.22	4,563.38	1.31	1.30	0.08
13,042.00	89.18	90.33	7,268.40	-406.30	4,651.21	4,656.37	1.22	-1.22	-0.11
13,135.00	88.09	90.21	7,270.61	-406.74	4,744.18	4,749.34	1.18	-1.17	-0.13
13,227.00	88.66	90.21	7,273.22	-407.07	4,836.14	4,841.30	0.62	0.62	0.00
13,320.00	90.10	90.94	7,274.23	-408.01	4,929.13	4,934.29	1.74	1.55	0.78
13,414.00	92.34	90.97	7,272.23	-409.57	5,023.09	5,028.26	2.38	2.38	0.03
13,484.00	93.96	91.07	7,268.38	-410.82	5,092.97	5,098.15	2.32	2.31	0.14
13,551.00	93.96	91.07	7,263.75	-412.07	5,159.80	5,164.99	0.00	0.00	0.00

BHL 10N-25HZ

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SL 10N-25HZ - hit/miss target - Shape	0.00	0.00	0.00	0.00	0.00	14,628,275.83	1,651,023.27	40.278842°N	104.961971°W
- actual wellpath hits target center - Point									
460' Internal Hardline - actual wellpath misses target center by 4350.76usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E) - Circle (radius 460.00)	0.00	0.00	-1.00	-524.28	4,319.06	14,627,753.40	1,655,342.56	40.277401°N	104.946486°W
460' Internal Hardline - actual wellpath misses target center by 1106.36usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E) - Circle (radius 460.00)	0.00	0.00	-1.00	-533.55	-969.20	14,627,741.86	1,650,054.31	40.277377°N	104.965446°W
Land Box Entry 10N-2 - actual wellpath hits target center - Point	0.00	0.00	2,035.30	-73.14	-273.08	14,628,202.57	1,650,750.22	40.278641°N	104.962950°W
BHL 10N-25HZ - actual wellpath hits target center - Point	0.00	0.00	7,263.75	-412.07	5,159.80	14,627,865.97	1,656,183.25	40.277709°N	104.943472°W
LP(final) 10N-25HZ re - actual wellpath hits target center - Point	0.00	0.00	7,285.48	-320.13	-609.43	14,627,955.43	1,650,413.98	40.277963°N	104.964156°W
Section Line Entry 10I - actual wellpath hits target center - Point	0.00	0.00	7,290.14	-332.49	349.70	14,627,943.49	1,651,373.12	40.277929°N	104.960717°W

Precision Drilling Corporation

Survey Report

Company:	US ROCKIES WATTENBERG PLANNING	Local Co-ordinate Reference:	Well Whisper Rock 10N-25HZ
Project:	WELD-NAD83-UTMFT13N	TVD Reference:	5072'GL+20'KB @ 5092.00usft (PD460)
Site:	Wilson Ranch 16-26HZ Pad	MD Reference:	5072'GL+20'KB @ 5092.00usft (PD460)
Well:	Whisper Rock 10N-25HZ	North Reference:	True
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Single User

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,063.75	2,035.30	-73.14	-273.08	Land Box Entry
7,779.00	7,285.48	-320.13	-609.43	LP
8,738.50	7,290.14	-332.49	349.70	Section Line Entry