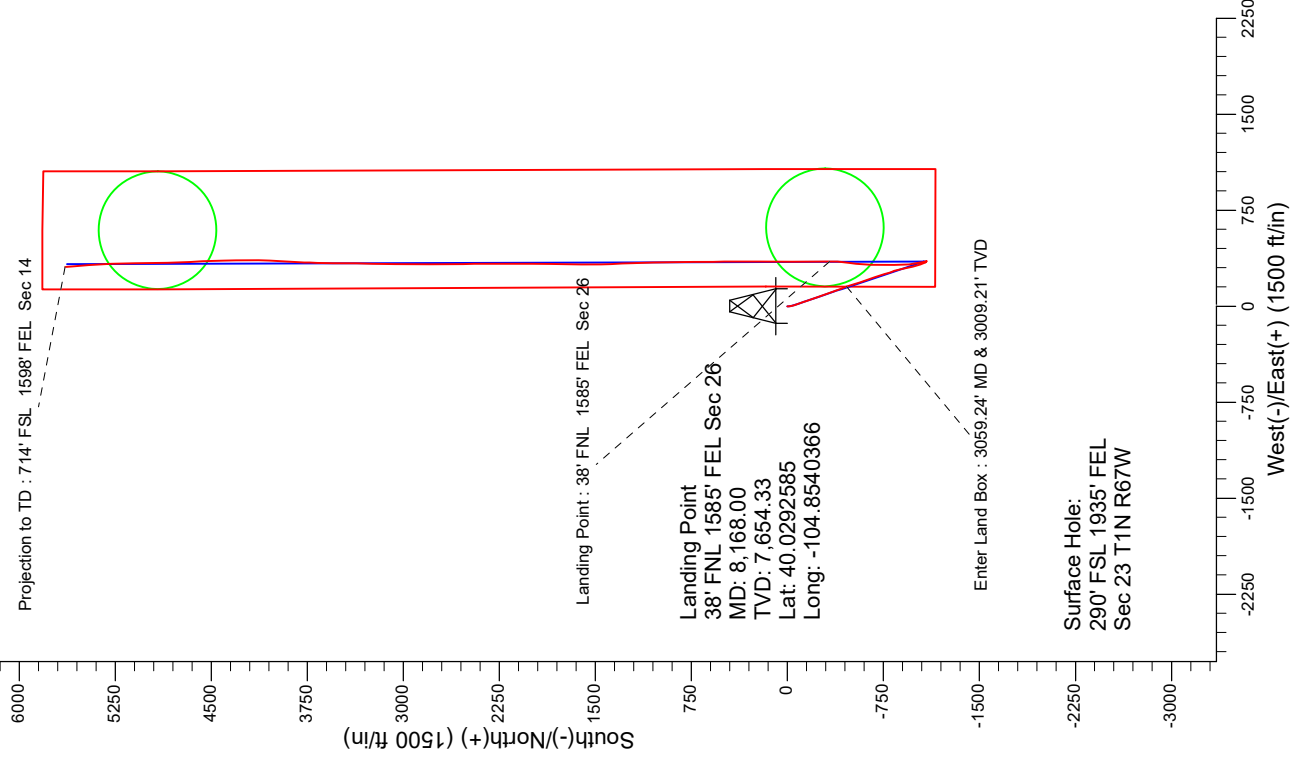
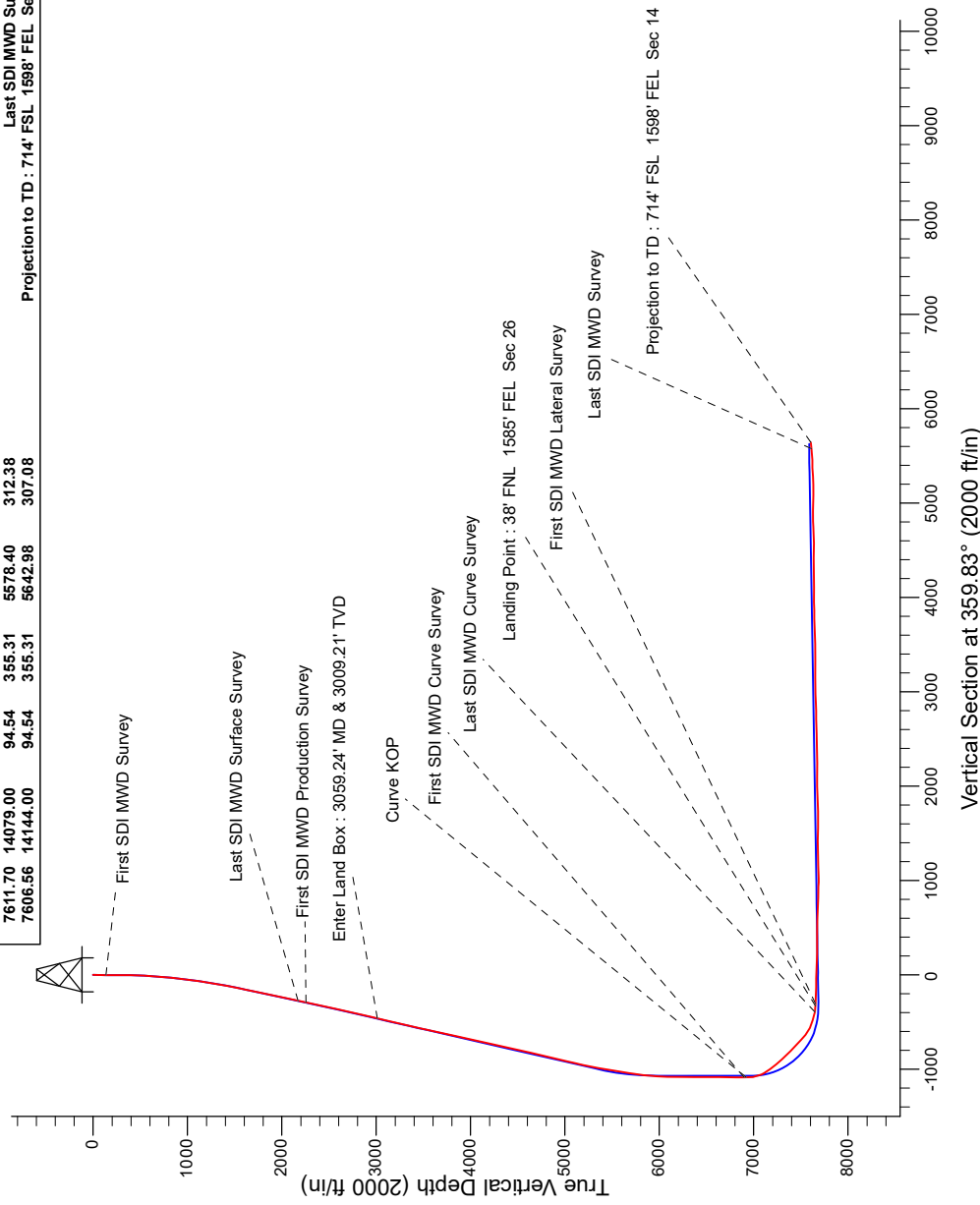


BHL
 714' FSL 1598' FEL Sec 14
 MD: 14,144.00
 TVD: 7,606.56
 Lat: 40.0456566
 Long: -104.8541927

WELL DETAILS: Garfield 27C-14HZ	
GL 4989' & KB 17' @ 5006.00ft (Xtreme 24)	4989.00
Longitude	-104.8552900
Latitude	40.03071600
Easting	1660925.01
Northing	14537746.88
Design: OH (Garfield 27C-14HZ/OH)	
Created By: Seth Burstad Date: 3-28-2017	
PROJECT DETAILS: US Rockies Wattenberg Planning UTM83	
Geodetic System: Universal Transverse Mercator (US Survey Feet)	
Datum: North American Datum 1983	
Ellipsoid: GRS 1980	
Zone: Zone 13N (108 W to 102 W)	
System Datum: Mean Sea Level	
Local North: True	

ANNOTATIONS						
TVD	MD	Inc	Azi	+N/-S	+E/-W	Annotation
136.00	136.00	0.03	94.66	0.00	0.04	First SDI MWD Survey
2172.45	2199.00	11.97	161.64	-275.09	84.40	Last SDI MWD Surface Survey
2255.69	2284.00	11.36	160.12	-291.33	90.03	Last SDI MWD Production Survey
3009.21	3059.24	13.44	159.52	-461.82	153.46	Enter Land Box : 3059.24' MD & 3009.21' TVD
6898.38	7019.00	0.78	162.42	-1086.81	352.05	First SDI MWD Curve Survey
6921.38	7042.00	1.85	347.11	-1086.60	352.02	Curve KOP
7646.75	8103.00	80.59	4.56	-392.73	348.01	Last SDI MWD Curve Survey
7654.33	8168.00	86.01	0.55	-325.28	350.87	Landing Point : 38' FNL 1585' FEL Sec 26
7655.58	8192.00	88.02	359.06	-304.31	350.79	First SDI MWD Lateral Survey
7611.70	14079.00	94.54	355.31	5578.40	312.38	Last SDI MWD Survey
7606.56	14144.00	94.54	355.31	5642.98	307.08	Projection to TD : 714' FSL 1598' FEL Sec 14



Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well Garfield 27C-14HZ
Project:	US Rockies Wattenberg Planning UTM83	TVD Reference:	GL 4989' & KB 17' @ 5006.00ft (Xtreme 24)
Site:	Garfield 15-23HZ Pad 1N-67W-23	MD Reference:	GL 4989' & KB 17' @ 5006.00ft (Xtreme 24)
Well:	Garfield 27C-14HZ	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Denver Sales Office

Project	US Rockies Wattenberg Planning UTM83		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Zone 13N (108 W to 102 W)		

Site	Garfield 15-23HZ Pad 1N-67W-23, Site Center : Garfield 2N-14HZ				
Site Position:		Northing:	14,537,748.43 usft	Latitude:	40.0301590
From:	Lat/Long	Easting:	1,680,866.22 usft	Longitude:	-104.8555000
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.09 °

Well	Garfield 27C-14HZ, 290' FSL 1935' FEL Sec 23 T1N R67W					
Well Position	+N/-S	0.00 ft	Northing:	14,537,748.89 usft	Latitude:	40.0301600
	+E/-W	0.00 ft	Easting:	1,680,925.01 usft	Longitude:	-104.8552900
Position Uncertainty		0.00 ft	Wellhead Elevation:	0.00 ft	Ground Level:	4,989.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2016	12/19/2016	8.45	66.59	52,238

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	359.83	

Survey Program	Date	3/28/2017			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
136.00	2,199.00	Survey #1 - Surface (OH)	APC_ISCWSA REV 2 MWD+	Fixed:v2:crustal field declination	
2,284.00	14,144.00	Survey #2 - Production (OH)	APC_ISCWSA REV 2 MWD+	Fixed:v2:crustal field declination	

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
136.00	0.03	94.66	136.00	0.00	0.04	0.00	0.02	0.02	0.00	
First SDI MWD Survey										
221.00	0.18	236.66	221.00	-0.08	-0.05	-0.08	0.24	0.18	167.06	
310.00	1.12	152.40	309.99	-0.93	0.23	-0.93	1.25	1.06	-94.67	
397.00	2.06	182.23	396.96	-3.24	0.57	-3.24	1.41	1.08	34.29	
485.00	2.64	176.45	484.89	-6.85	0.63	-6.85	0.71	0.66	-6.57	
574.00	2.80	173.56	573.79	-11.05	1.00	-11.05	0.24	0.18	-3.25	
661.00	3.68	178.77	660.65	-15.95	1.30	-15.96	1.07	1.01	5.99	
749.00	4.99	173.73	748.39	-22.58	1.78	-22.59	1.55	1.49	-5.73	

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well Garfield 27C-14HZ
Project:	US Rockies Wattenberg Planning UTM83	TVD Reference:	GL 4989' & KB 17' @ 5006.00ft (Xtreme 24)
Site:	Garfield 15-23HZ Pad 1N-67W-23	MD Reference:	GL 4989' & KB 17' @ 5006.00ft (Xtreme 24)
Well:	Garfield 27C-14HZ	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Denver Sales Office

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
834.00	5.79	167.83	833.02	-30.45	3.08	-30.46	1.14	0.94	-6.94	
927.00	7.52	162.27	925.39	-40.83	5.93	-40.85	1.98	1.86	-5.98	
1,009.00	7.69	162.65	1,006.67	-51.18	9.20	-51.21	0.22	0.21	0.46	
1,096.00	8.61	162.85	1,092.79	-62.96	12.85	-63.00	1.06	1.06	0.23	
1,183.00	8.68	160.39	1,178.80	-75.36	16.98	-75.41	0.43	0.08	-2.83	
1,271.00	10.15	159.26	1,265.61	-88.87	21.95	-88.94	1.68	1.67	-1.28	
1,360.00	10.79	159.27	1,353.13	-104.00	27.68	-104.08	0.72	0.72	0.01	
1,447.00	10.74	163.31	1,438.60	-119.38	32.89	-119.48	0.87	-0.06	4.64	
1,535.00	12.08	164.62	1,524.86	-136.11	37.69	-136.22	1.55	1.52	1.49	
1,624.00	13.46	160.59	1,611.66	-154.86	43.60	-154.99	1.84	1.55	-4.53	
1,710.00	12.92	162.22	1,695.39	-173.46	49.86	-173.60	0.76	-0.63	1.90	
1,799.00	13.42	158.99	1,782.05	-192.57	56.60	-192.74	1.00	0.56	-3.63	
1,888.00	12.69	161.69	1,868.75	-211.50	63.38	-211.68	1.07	-0.82	3.03	
1,975.00	12.41	159.94	1,953.67	-229.35	69.58	-229.56	0.54	-0.32	-2.01	
2,063.00	12.51	163.18	2,039.60	-247.36	75.59	-247.58	0.80	0.11	3.68	
2,152.00	12.39	162.07	2,126.50	-265.67	81.31	-265.91	0.30	-0.13	-1.25	
2,199.00	11.97	161.64	2,172.45	-275.09	84.40	-275.34	0.91	-0.89	-0.91	
Last SDI MWD Surface Survey										
2,284.00	11.36	160.12	2,255.69	-291.33	90.03	-291.59	0.80	-0.72	-1.79	
First SDI MWD Production Survey										
2,372.00	12.29	158.92	2,341.82	-308.22	96.34	-308.50	1.09	1.06	-1.36	
2,461.00	13.79	159.08	2,428.53	-326.97	103.54	-327.27	1.69	1.69	0.18	
2,550.00	14.18	160.19	2,514.89	-347.13	111.02	-347.46	0.53	0.44	1.25	
2,639.00	13.96	159.64	2,601.22	-367.45	118.45	-367.80	0.29	-0.25	-0.62	
2,727.00	13.59	160.27	2,686.69	-387.13	125.63	-387.50	0.45	-0.42	0.72	
2,816.00	13.25	159.51	2,773.26	-406.53	132.73	-406.92	0.43	-0.38	-0.85	
2,905.00	14.83	158.87	2,859.59	-426.71	140.41	-427.12	1.78	1.78	-0.72	
2,994.00	13.87	160.10	2,945.82	-447.36	148.14	-447.80	1.13	-1.08	1.38	
3,059.24	13.44	159.52	3,009.21	-461.82	153.46	-462.28	0.68	-0.65	-0.89	
Enter Land Box : 3059.24' MD & 3009.21' TVD										
3,083.00	13.29	159.30	3,032.33	-466.96	155.39	-467.42	0.68	-0.65	-0.93	
3,172.00	12.74	160.98	3,119.04	-485.81	162.21	-486.29	0.75	-0.62	1.89	
3,261.00	13.15	160.95	3,205.78	-504.66	168.71	-505.16	0.46	0.46	-0.03	
3,350.00	13.20	162.36	3,292.44	-523.91	175.09	-524.43	0.37	0.06	1.58	
3,439.00	13.73	163.90	3,378.99	-543.74	181.10	-544.28	0.72	0.60	1.73	
3,528.00	14.04	163.61	3,465.39	-564.25	187.08	-564.80	0.36	0.35	-0.33	
3,617.00	12.84	164.23	3,551.95	-584.12	192.81	-584.69	1.36	-1.35	0.70	
3,795.00	13.20	158.25	3,725.38	-622.04	205.72	-622.64	0.78	0.20	-3.36	
3,884.00	12.10	158.06	3,812.22	-640.13	212.97	-640.76	1.24	-1.24	-0.21	
3,973.00	12.90	162.36	3,899.11	-658.25	219.46	-658.90	1.38	0.90	4.83	
4,062.00	13.52	163.06	3,985.76	-677.67	225.51	-678.33	0.72	0.70	0.79	
4,150.00	13.32	163.44	4,071.35	-697.22	231.39	-697.91	0.25	-0.23	0.43	
4,239.00	13.27	163.21	4,157.97	-716.83	237.26	-717.53	0.08	-0.06	-0.26	
4,328.00	13.32	163.15	4,244.58	-736.42	243.19	-737.14	0.06	0.06	-0.07	

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well Garfield 27C-14HZ
Project:	US Rockies Wattenberg Planning UTM83	TVD Reference:	GL 4989' & KB 17' @ 5006.00ft (Xtreme 24)
Site:	Garfield 15-23HZ Pad 1N-67W-23	MD Reference:	GL 4989' & KB 17' @ 5006.00ft (Xtreme 24)
Well:	Garfield 27C-14HZ	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Denver Sales Office

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,506.00	13.81	162.31	4,417.62	-776.29	255.59	-777.04	0.30	0.28	-0.47
4,684.00	12.67	160.66	4,590.88	-814.95	268.51	-815.74	0.67	-0.64	-0.93
4,773.00	12.66	162.38	4,677.72	-833.45	274.69	-834.26	0.42	-0.01	1.93
4,862.00	12.43	162.67	4,764.59	-851.89	280.50	-852.72	0.27	-0.26	0.33
4,951.00	13.21	167.70	4,851.38	-870.97	285.52	-871.81	1.53	0.88	5.65
5,039.00	14.40	167.65	4,936.83	-891.49	290.00	-892.34	1.35	1.35	-0.06
5,128.00	14.50	166.69	5,023.02	-913.14	294.93	-914.01	0.29	0.11	-1.08
5,217.00	13.51	167.08	5,109.37	-934.11	299.82	-935.00	1.12	-1.11	0.44
5,306.00	12.37	167.15	5,196.11	-953.54	304.27	-954.44	1.28	-1.28	0.08
5,395.00	11.52	167.05	5,283.18	-971.50	308.38	-972.41	0.96	-0.96	-0.11
5,507.00	10.64	166.84	5,393.09	-992.47	313.24	-993.39	0.79	-0.79	-0.19
5,596.00	10.06	166.84	5,480.65	-1,008.04	316.88	-1,008.97	0.65	-0.65	0.00
5,685.00	9.32	166.54	5,568.38	-1,022.61	320.33	-1,023.56	0.83	-0.83	-0.34
5,774.00	8.79	159.08	5,656.27	-1,035.97	324.43	-1,036.93	1.45	-0.60	-8.38
5,863.00	8.16	157.62	5,744.30	-1,048.17	329.26	-1,049.14	0.75	-0.71	-1.64
5,952.00	7.49	158.31	5,832.47	-1,059.40	333.81	-1,060.38	0.76	-0.75	0.78
6,041.00	5.85	153.91	5,920.86	-1,068.86	337.95	-1,069.86	1.93	-1.84	-4.94
6,130.00	3.33	141.56	6,009.57	-1,074.96	341.55	-1,075.97	3.03	-2.83	-13.88
6,219.00	1.54	142.48	6,098.49	-1,077.93	343.89	-1,078.95	2.01	-2.01	1.03
6,308.00	1.05	134.85	6,187.47	-1,079.46	345.20	-1,080.48	0.58	-0.55	-8.57
6,397.00	0.97	116.07	6,276.45	-1,080.36	346.45	-1,081.39	0.38	-0.09	-21.10
6,486.00	0.74	122.04	6,365.44	-1,081.00	347.62	-1,082.03	0.28	-0.26	6.71
6,574.00	0.77	123.17	6,453.43	-1,081.63	348.59	-1,082.65	0.04	0.03	1.28
6,663.00	0.66	114.77	6,542.43	-1,082.17	349.56	-1,083.20	0.17	-0.12	-9.44
6,752.00	0.74	123.15	6,631.42	-1,082.70	350.50	-1,083.73	0.15	0.09	9.42
6,841.00	1.11	166.25	6,720.41	-1,083.85	351.19	-1,084.89	0.86	0.42	48.43
6,930.00	1.04	162.95	6,809.39	-1,085.46	351.63	-1,086.50	0.10	-0.08	-3.71
7,019.00	0.78	162.42	6,898.38	-1,086.81	352.05	-1,087.85	0.29	-0.29	-0.60
First SDI MWD Curve Survey - First SDI MWD Curve Survey									
7,042.00	1.85	347.11	6,921.38	-1,086.60	352.02	-1,087.63	11.41	4.63	-762.20
Curve KOP									
7,112.00	9.83	345.98	6,990.96	-1,079.69	350.32	-1,080.72	11.41	11.41	-1.62
7,204.00	23.82	349.99	7,078.81	-1,053.64	345.16	-1,054.66	15.25	15.21	4.36
7,297.00	37.27	349.26	7,158.72	-1,007.27	336.61	-1,008.26	14.47	14.46	-0.78
7,389.00	39.44	354.17	7,230.87	-950.81	328.44	-951.78	4.06	2.36	5.34
7,482.00	42.37	358.58	7,301.17	-890.07	324.67	-891.03	4.42	3.15	4.74
7,571.00	44.12	359.95	7,366.00	-829.10	323.90	-830.06	2.23	1.97	1.54
7,660.00	45.62	0.00	7,429.07	-766.32	323.87	-767.27	1.69	1.69	0.06
7,748.00	46.73	359.68	7,490.01	-702.83	323.69	-703.79	1.29	1.26	-0.36
7,837.00	50.93	0.43	7,548.58	-635.85	323.77	-636.81	4.76	4.72	0.84
7,926.00	66.14	7.38	7,594.95	-560.43	329.29	-561.41	18.33	17.09	7.81
8,015.00	72.55	6.81	7,626.32	-477.83	339.56	-478.84	7.23	7.20	-0.64
8,103.00	80.59	4.56	7,646.75	-392.73	348.01	-393.76	9.47	9.14	-2.56

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well Garfield 27C-14HZ
Project:	US Rockies Wattenberg Planning UTM83	TVD Reference:	GL 4989' & KB 17' @ 5006.00ft (Xtreme 24)
Site:	Garfield 15-23HZ Pad 1N-67W-23	MD Reference:	GL 4989' & KB 17' @ 5006.00ft (Xtreme 24)
Well:	Garfield 27C-14HZ	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Denver Sales Office

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
Last SDI MWD Curve Survey										
8,168.00	86.01	0.55	7,654.33	-328.28	350.87	-329.32	10.35	8.34	-6.18	
Landing Point : 38' FNL 1585' FEL Sec 26										
8,192.00	88.02	359.08	7,655.58	-304.31	350.79	-305.35	10.35	8.37	-6.10	
First SDI MWD Lateral Survey										
8,281.00	88.86	358.96	7,658.00	-215.36	349.27	-216.40	0.95	0.94	-0.13	
8,369.00	89.83	359.75	7,659.01	-127.37	348.28	-128.41	1.42	1.10	0.90	
8,458.00	87.31	0.45	7,661.23	-38.41	348.43	-39.44	2.94	-2.83	0.79	
8,547.00	87.21	0.21	7,665.48	50.49	348.94	49.45	0.29	-0.11	-0.27	
8,635.00	87.78	359.74	7,669.33	138.40	348.91	137.37	0.84	0.65	-0.53	
8,724.00	88.69	0.64	7,672.07	227.36	349.20	226.32	1.44	1.02	1.01	
8,812.00	89.66	0.18	7,673.34	315.35	349.83	314.31	1.22	1.10	-0.52	
8,901.00	89.97	359.39	7,673.63	404.34	349.50	403.31	0.95	0.35	-0.89	
8,990.00	88.89	359.49	7,674.51	493.33	348.63	492.30	1.22	-1.21	0.11	
9,079.00	89.43	359.60	7,675.82	582.32	347.92	581.29	0.62	0.61	0.12	
9,167.00	87.65	0.14	7,678.06	670.29	347.72	669.25	2.11	-2.02	0.61	
9,256.00	87.78	359.35	7,681.61	759.22	347.32	758.18	0.90	0.15	-0.89	
9,345.00	88.52	358.98	7,684.48	848.16	346.03	847.13	0.93	0.83	-0.42	
9,434.00	88.83	358.81	7,686.54	937.12	344.31	936.09	0.40	0.35	-0.19	
9,523.00	90.03	358.62	7,687.42	1,026.09	342.32	1,025.07	1.37	1.35	-0.21	
9,612.00	91.04	358.10	7,686.59	1,115.05	339.77	1,114.04	1.28	1.13	-0.58	
9,700.00	91.88	357.88	7,684.35	1,202.97	336.68	1,201.96	0.99	0.95	-0.25	
9,789.00	93.09	357.73	7,680.49	1,291.81	333.28	1,290.82	1.37	1.36	-0.17	
9,878.00	90.81	357.30	7,677.46	1,380.67	329.42	1,379.69	2.61	-2.56	-0.48	
9,967.00	88.83	358.48	7,677.74	1,469.61	326.15	1,468.63	2.59	-2.22	1.33	
10,056.00	89.03	0.96	7,679.40	1,558.58	325.71	1,557.61	2.80	0.22	2.79	
10,145.00	89.87	1.04	7,680.26	1,647.56	327.26	1,646.59	0.95	0.94	0.09	
10,234.00	90.77	0.93	7,679.76	1,736.55	328.79	1,735.57	1.02	1.01	-0.12	
10,323.00	91.31	0.21	7,678.15	1,825.53	329.68	1,824.54	1.01	0.61	-0.81	
10,412.00	92.21	0.26	7,675.41	1,914.49	330.04	1,913.50	1.01	1.01	0.06	
10,500.00	91.61	0.59	7,672.48	2,002.43	330.70	2,001.44	0.78	-0.68	0.38	
10,589.00	89.80	0.15	7,671.39	2,091.42	331.27	2,090.43	2.09	-2.03	-0.49	
10,677.00	89.46	0.05	7,671.95	2,179.42	331.42	2,178.43	0.40	-0.39	-0.11	
10,766.00	90.20	359.92	7,672.22	2,268.42	331.40	2,267.42	0.84	0.83	-0.15	
10,855.00	91.85	359.67	7,670.63	2,357.40	331.08	2,356.41	1.88	1.85	-0.28	
10,944.00	91.17	359.65	7,668.28	2,446.37	330.55	2,445.38	0.76	-0.76	-0.02	
11,032.00	91.34	359.62	7,666.35	2,534.34	329.99	2,533.35	0.20	0.19	-0.03	
11,121.00	92.79	359.66	7,663.15	2,623.28	329.44	2,622.29	1.63	1.63	0.04	
11,209.00	91.14	359.77	7,660.13	2,711.23	329.00	2,710.24	1.88	-1.88	0.13	
11,298.00	90.40	359.89	7,658.93	2,800.22	328.73	2,799.23	0.84	-0.83	0.13	
11,387.00	90.44	359.91	7,658.28	2,889.21	328.58	2,888.23	0.05	0.04	0.02	
11,475.00	91.75	359.89	7,656.60	2,977.20	328.43	2,976.21	1.49	1.49	-0.02	
11,564.00	90.97	0.79	7,654.49	3,066.17	328.95	3,065.18	1.34	-0.88	1.01	
11,653.00	90.94	0.97	7,653.00	3,155.15	330.32	3,154.15	0.21	-0.03	0.20	

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well Garfield 27C-14HZ
Project:	US Rockies Wattenberg Planning UTM83	TVD Reference:	GL 4989' & KB 17' @ 5006.00ft (Xtreme 24)
Site:	Garfield 15-23HZ Pad 1N-67W-23	MD Reference:	GL 4989' & KB 17' @ 5006.00ft (Xtreme 24)
Well:	Garfield 27C-14HZ	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Denver Sales Office

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
11,742.00	89.56	1.11	7,652.61	3,244.13	331.94	3,243.13	1.56	-1.55	0.16	
11,831.00	89.23	0.91	7,653.55	3,333.11	333.50	3,332.10	0.43	-0.37	-0.22	
11,919.00	90.07	0.90	7,654.09	3,421.10	334.89	3,420.09	0.95	0.95	-0.01	
12,008.00	91.38	0.77	7,652.97	3,510.08	336.19	3,509.06	1.48	1.47	-0.15	
12,097.00	93.12	0.49	7,649.47	3,599.00	337.17	3,597.98	1.98	1.96	-0.31	
12,186.00	91.91	1.86	7,645.57	3,687.89	338.99	3,686.87	2.05	-1.36	1.54	
12,274.00	90.50	2.99	7,643.72	3,775.79	342.72	3,774.76	2.05	-1.60	1.28	
12,363.00	90.74	3.01	7,642.75	3,864.66	347.37	3,863.61	0.27	0.27	0.02	
12,452.00	92.02	2.90	7,640.61	3,953.52	351.96	3,952.45	1.44	1.44	-0.12	
12,541.00	91.14	2.72	7,638.16	4,042.37	356.32	4,041.30	1.01	-0.99	-0.20	
12,630.00	89.73	0.96	7,637.48	4,131.32	359.18	4,130.24	2.53	-1.58	-1.98	
12,718.00	89.70	359.81	7,637.92	4,219.32	359.77	4,218.23	1.31	-0.03	-1.31	
12,807.00	90.77	359.44	7,637.55	4,308.31	359.19	4,307.23	1.27	1.20	-0.42	
12,896.00	90.77	359.08	7,636.36	4,397.30	358.04	4,396.21	0.40	0.00	-0.40	
12,985.00	89.06	357.44	7,636.49	4,486.25	355.34	4,485.17	2.66	-1.92	-1.84	
13,073.00	89.80	357.07	7,637.36	4,574.14	351.12	4,573.08	0.94	0.84	-0.42	
13,162.00	91.41	357.36	7,636.42	4,663.03	346.80	4,661.98	1.84	1.81	0.33	
13,251.00	93.09	357.40	7,632.93	4,751.86	342.73	4,750.83	1.89	1.89	0.04	
13,340.00	92.38	358.48	7,628.68	4,840.70	339.54	4,839.68	1.45	-0.80	1.21	
13,429.00	89.90	358.52	7,626.91	4,929.65	337.21	4,928.63	2.79	-2.79	0.04	
13,517.00	87.65	359.44	7,628.79	5,017.61	335.64	5,016.59	2.76	-2.56	1.05	
13,606.00	88.86	359.37	7,631.50	5,106.56	334.72	5,105.54	1.36	1.36	-0.08	
13,695.00	91.98	358.48	7,630.85	5,195.53	333.05	5,194.52	3.65	3.51	-1.00	
13,784.00	93.19	358.43	7,626.84	5,284.41	330.65	5,283.40	1.36	1.36	-0.06	
13,873.00	92.52	356.89	7,622.40	5,373.22	327.02	5,372.22	1.89	-0.75	-1.73	
13,961.00	92.28	355.85	7,618.72	5,460.96	321.46	5,459.99	1.21	-0.27	-1.18	
14,079.00	94.54	355.31	7,611.70	5,578.40	312.38	5,577.44	1.97	1.92	-0.46	
Last SDI MWD Survey										
14,144.00	94.54	355.31	7,606.56	5,642.98	307.08	5,642.04	0.00	0.00	0.00	
Projection to TD : 714' FSL 1598' FEL Sec 14										

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well Garfield 27C-14HZ
Project:	US Rockies Wattenberg Planning UTM83	TVD Reference:	GL 4989' & KB 17' @ 5006.00ft (Xtreme 24)
Site:	Garfield 15-23HZ Pad 1N-67W-23	MD Reference:	GL 4989' & KB 17' @ 5006.00ft (Xtreme 24)
Well:	Garfield 27C-14HZ	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Denver Sales Office

Design Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
136.00	136.00	0.00	0.04	First SDI MWD Survey
2,199.00	2,172.45	-275.09	84.40	Last SDI MWD Surface Survey
2,284.00	2,255.69	-291.33	90.03	First SDI MWD Production Survey
3,059.24	3,009.21	-461.82	153.46	Enter Land Box : 3059.24' MD & 3009.21' TVD
7,019.00	6,898.38	-1,086.81	352.05	First SDI MWD Curve Survey
7,019.00	6,898.38	-1,086.81	352.05	First SDI MWD Curve Survey
7,042.00	6,921.38	-1,086.60	352.02	Curve KOP
8,103.00	7,646.75	-392.73	348.01	Last SDI MWD Curve Survey
8,168.00	7,654.33	-328.28	350.87	Landing Point : 38' FNL 1585' FEL Sec 26
8,192.00	7,655.58	-304.31	350.79	First SDI MWD Lateral Survey
14,079.00	7,611.70	5,578.40	312.38	Last SDI MWD Survey
14,144.00	7,606.56	5,642.98	307.08	Projection to TD : 714' FSL 1598' FEL Sec 14

Checked By: _____ Approved By: _____ Date: _____