

WELL DETAILS: FL Greens 14N-8HZ

GL 4925' & KB 20' @ 4945.00ft (Precision 461) 4925.00
 Northing Easting Latitude Longitude
 14552327.92 1694762.85 40.0701240 -104.8057430

Design: OH (FL Greens 14N-8HZ/OH)

Created By: Seth Burstad Date: 6-27-2017

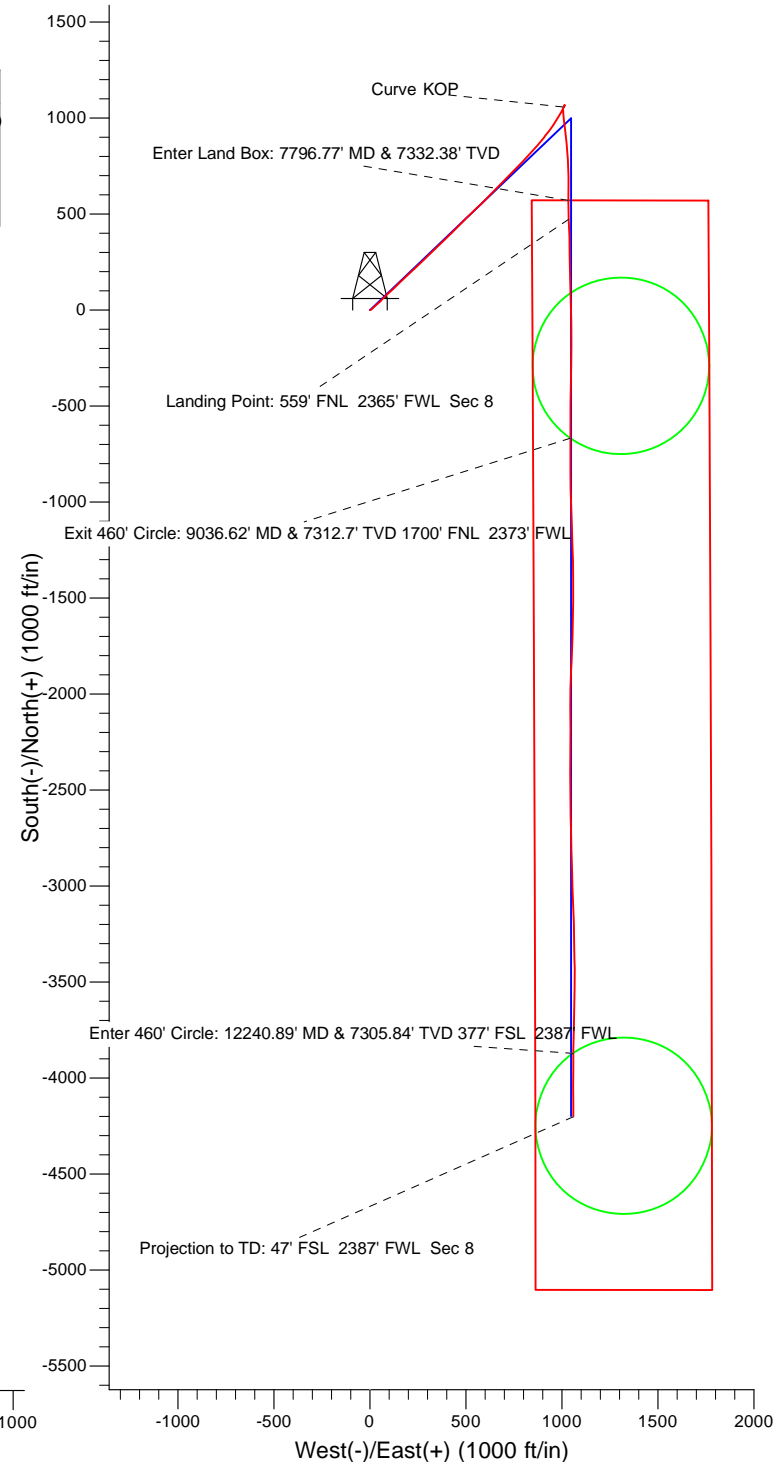
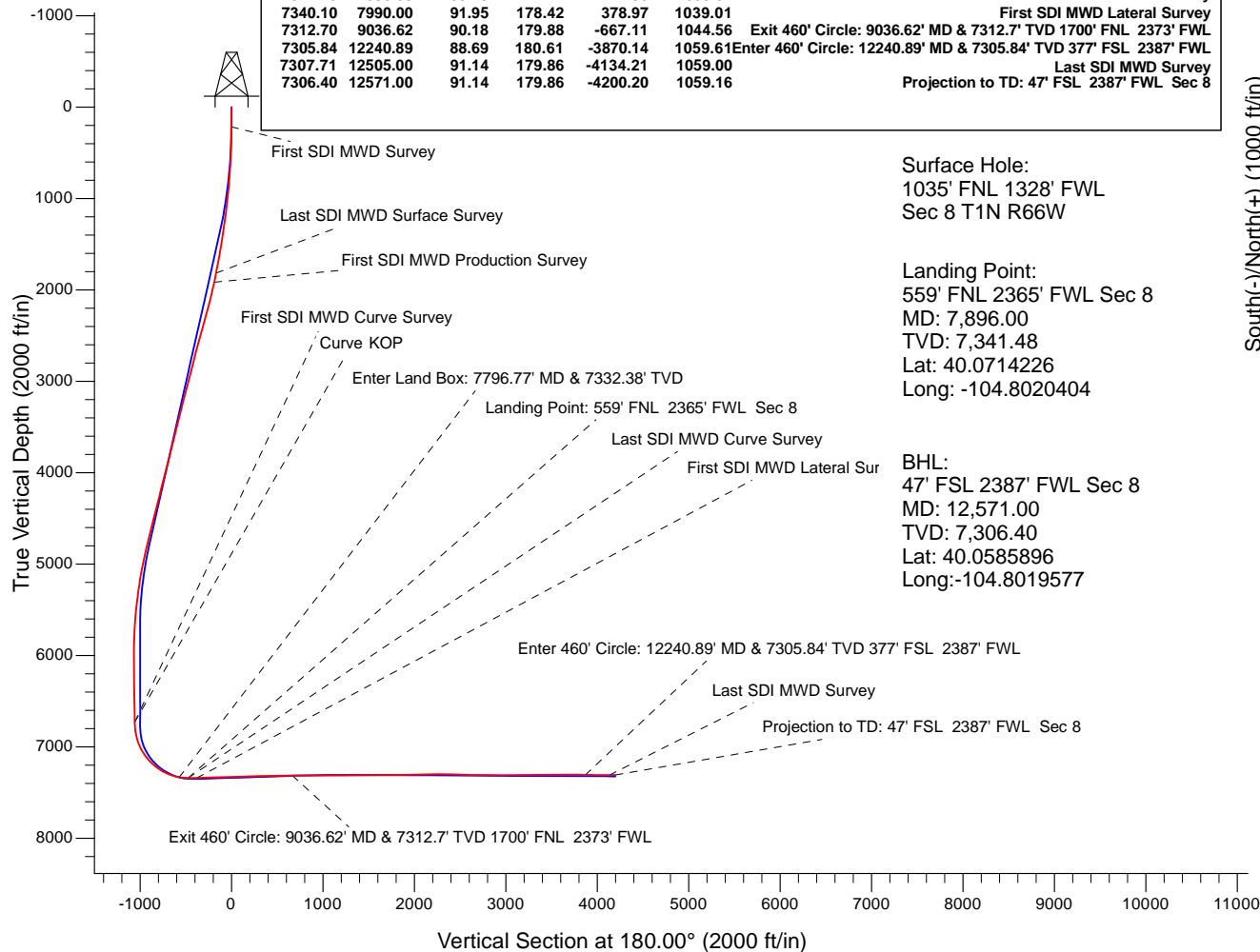
PROJECT DETAILS: US Rockies Wattenberg Planning UTM83

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
215.00	215.00	0.46	59.90	0.43	0.75	First SDI MWD Survey
1815.22	1839.00	14.88	46.36	167.81	180.84	Last SDI MWD Surface Survey
1914.17	1942.00	17.32	46.09	187.57	201.46	First SDI MWD Production Survey
6728.69	6953.00	1.59	225.78	1058.21	1006.13	First SDI MWD Curve Survey
6730.69	6955.00	1.67	221.42	1058.17	1006.09	Curve KOP
7332.38	7796.77	79.75	179.97	571.56	1033.90	Enter Land Box: 7796.77' MD & 7332.38' TVD
7341.48	7896.00	89.73	177.72	472.90	1035.84	Landing Point: 559' FNL 2365' FWL Sec 8
7341.48	7896.00	89.73	177.72	472.90	1035.84	Last SDI MWD Curve Survey
7340.10	7990.00	91.95	178.42	378.97	1039.01	First SDI MWD Lateral Survey
7312.70	9036.62	90.18	179.88	-667.11	1044.56	Exit 460' Circle: 9036.62' MD & 7312.7' TVD 1700' FNL 2373' FWL
7305.84	12240.89	88.69	180.61	-3870.14	1059.61	Enter 460' Circle: 12240.89' MD & 7305.84' TVD 377' FSL 2387' FWL
7307.71	12505.00	91.14	179.86	-4134.21	1059.00	Last SDI MWD Survey
7306.40	12571.00	91.14	179.86	-4200.20	1059.16	Projection to TD: 47' FSL 2387' FWL Sec 8





US ROCKIES REGION PLANNING

US Rockies Wattenberg Planning UTM83

FL Greens 18-8HZ Pad

FL Greens 14N-8HZ

OH

Design: OH

Standard Survey Report

27 June, 2017



Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well FL Greens 14N-8HZ
Project:	US Rockies Wattenberg Planning UTM83	TVD Reference:	GL 4925' & KB 20' @ 4945.00ft (Precision 461)
Site:	FL Greens 18-8HZ Pad	MD Reference:	GL 4925' & KB 20' @ 4945.00ft (Precision 461)
Well:	FL Greens 14N-8HZ	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	FL Greens 18-8HZ Pad, Site Center : FL Greens 3N-5HZ				
Site Position:		Northing:	14,552,327.94 usft	Latitude:	40.0701240
From:	Lat/Long	Easting:	1,694,777.68 usft	Longitude:	-104.8056900
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.13 °

Well	FL Greens 14N-8HZ, 1035' FNL 1328' FWL Sec 8 T1N R66W					
Well Position	+N/-S	0.00 ft	Northing:	14,552,327.91 usft	Latitude:	40.0701240
	+E/-W	0.00 ft	Easting:	1,694,762.85 usft	Longitude:	-104.8057430
Position Uncertainty		0.00 ft	Wellhead Elevation:	0.00 ft	Ground Level:	4,925.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2016	5/24/2017	8.39	66.62	52,222

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	180.00	

Survey Program	Date	6/27/2017			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
215.00	1,839.00	Survey #1 - Surface (OH)	APC_ISCWSA REV 2 MWD+	Fixed:v2:crustal field declination	
1,942.00	12,571.00	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	
215.00	0.46	59.90	215.00	0.43	0.75	-0.43	0.21	0.21	0.00	
First SDI MWD Survey										
307.00	1.57	68.20	306.98	1.09	2.24	-1.09	1.21	1.21	9.02	
400.00	2.41	59.07	399.93	2.56	5.10	-2.56	0.96	0.90	-9.82	
493.00	3.70	46.72	492.79	5.63	8.96	-5.63	1.55	1.39	-13.28	
587.00	4.46	52.33	586.55	9.94	14.06	-9.94	0.91	0.81	5.97	
679.00	5.37	45.89	678.21	15.12	19.98	-15.12	1.16	0.99	-7.00	
772.00	6.75	46.83	770.69	21.89	27.09	-21.89	1.49	1.48	1.01	
867.00	7.67	49.29	864.94	29.85	35.97	-29.85	1.02	0.97	2.59	

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well FL Greens 14N-8HZ
Project:	US Rockies Wattenberg Planning UTM83	TVD Reference:	GL 4925' & KB 20' @ 4945.00ft (Precision 461)
Site:	FL Greens 18-8HZ Pad	MD Reference:	GL 4925' & KB 20' @ 4945.00ft (Precision 461)
Well:	FL Greens 14N-8HZ	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)
961.00	8.36	48.81	958.02	38.44	45.87	-38.44	0.74	0.73	-0.51
1,056.00	9.22	42.19	1,051.91	48.62	56.18	-48.62	1.40	0.91	-6.97
1,150.00	10.01	44.86	1,144.59	60.00	67.00	-60.00	0.96	0.84	2.84
1,245.00	11.18	45.99	1,237.97	72.25	79.45	-72.25	1.25	1.23	1.19
1,339.00	11.81	47.70	1,330.08	85.05	93.12	-85.05	0.76	0.67	1.82
1,433.00	12.42	46.43	1,421.99	98.49	107.55	-98.49	0.71	0.65	-1.35
1,527.00	14.06	45.80	1,513.49	113.42	123.07	-113.42	1.75	1.74	-0.67
1,622.00	14.61	47.65	1,605.53	129.54	140.19	-129.54	0.75	0.58	1.95
1,716.00	15.09	46.46	1,696.39	145.95	157.82	-145.95	0.60	0.51	-1.27
1,809.00	14.87	46.53	1,786.23	162.50	175.26	-162.50	0.24	-0.24	0.08
1,839.00	14.88	46.36	1,815.22	167.81	180.84	-167.81	0.15	0.03	-0.57
Last SDI MWD Surface Survey									
1,942.00	17.32	46.09	1,914.17	187.57	201.46	-187.57	2.37	2.37	-0.26
First SDI MWD Production Survey									
2,037.00	18.55	47.95	2,004.56	207.50	222.87	-207.50	1.43	1.29	1.96
2,131.00	20.66	46.40	2,093.10	228.96	245.98	-228.96	2.31	2.24	-1.65
2,224.00	21.57	46.89	2,179.86	251.95	270.35	-251.95	1.00	0.98	0.53
2,318.00	20.86	45.23	2,267.49	275.55	294.84	-275.55	0.99	-0.76	-1.77
2,411.00	22.36	46.49	2,353.95	299.39	319.43	-299.39	1.69	1.61	1.35
2,506.00	21.74	46.22	2,442.00	324.00	345.24	-324.00	0.66	-0.65	-0.28
2,600.00	20.51	46.31	2,529.68	347.42	369.71	-347.42	1.31	-1.31	0.10
2,692.00	21.57	44.90	2,615.55	370.54	393.31	-370.54	1.28	1.15	-1.53
2,785.00	19.98	44.12	2,702.50	394.05	416.44	-394.05	1.74	-1.71	-0.84
2,880.00	20.06	46.47	2,791.76	416.93	439.55	-416.93	0.85	0.08	2.47
2,974.00	20.59	44.48	2,879.91	439.82	462.82	-439.82	0.93	0.56	-2.12
3,069.00	21.04	45.60	2,968.71	463.68	486.71	-463.68	0.63	0.47	1.18
3,162.00	19.32	45.75	3,055.99	486.09	509.66	-486.09	1.85	-1.85	0.16
3,257.00	19.77	46.36	3,145.52	508.15	532.54	-508.15	0.52	0.47	0.64
3,352.00	19.87	46.63	3,234.89	530.32	555.90	-530.32	0.14	0.11	0.28
3,445.00	20.41	45.17	3,322.21	552.61	578.89	-552.61	0.79	0.58	-1.57
3,539.00	19.95	45.31	3,410.44	575.44	601.92	-575.44	0.49	-0.49	0.15
3,633.00	19.00	43.55	3,499.06	597.81	623.86	-597.81	1.19	-1.01	-1.87
3,727.00	18.74	44.63	3,588.01	619.65	645.01	-619.65	0.46	-0.28	1.15
3,820.00	19.32	43.68	3,675.92	641.40	666.13	-641.40	0.71	0.62	-1.02
3,915.00	19.37	45.11	3,765.56	663.89	688.15	-663.89	0.50	0.05	1.51
4,009.00	19.93	44.60	3,854.09	686.30	710.44	-686.30	0.62	0.60	-0.54
4,103.00	20.01	43.66	3,942.43	709.34	732.79	-709.34	0.35	0.09	-1.00
4,197.00	20.16	44.30	4,030.72	732.57	755.21	-732.57	0.28	0.16	0.68
4,291.00	18.53	42.82	4,119.41	755.12	776.68	-755.12	1.81	-1.73	-1.57
4,384.00	18.99	44.57	4,207.47	776.74	797.34	-776.74	0.78	0.49	1.88
4,479.00	20.52	44.19	4,296.87	799.69	819.79	-799.69	1.62	1.61	-0.40
4,572.00	18.72	42.74	4,384.47	822.34	841.29	-822.34	2.00	-1.94	-1.56
4,666.00	16.93	40.89	4,473.96	843.77	860.49	-843.77	2.00	-1.90	-1.97

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Site:	FL Greens 18-8HZ Pad	MD Reference:	GL 4925' & KB 20' @ 4945.00ft (Precision 461)
Well:	FL Greens 14N-8HZ	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)
4,760.00	17.50	39.84	4,563.74	864.96	878.50	-864.96	0.69	0.61	-1.12
4,854.00	18.61	38.86	4,653.11	887.50	896.96	-887.50	1.22	1.18	-1.04
4,948.00	17.05	37.44	4,742.60	910.12	914.75	-910.12	1.72	-1.66	-1.51
5,042.00	16.51	36.87	4,832.59	931.75	931.15	-931.75	0.60	-0.57	-0.61
5,137.00	15.01	36.09	4,924.02	952.49	946.49	-952.49	1.59	-1.58	-0.82
5,256.00	12.87	33.69	5,039.51	975.97	962.92	-975.97	1.86	-1.80	-2.02
5,351.00	11.15	31.60	5,132.43	992.60	973.61	-992.60	1.87	-1.81	-2.20
5,446.00	9.92	31.00	5,225.82	1,007.44	982.63	-1,007.44	1.30	-1.29	-0.63
5,541.00	8.79	26.16	5,319.56	1,020.97	990.05	-1,020.97	1.45	-1.19	-5.09
5,635.00	7.42	31.82	5,412.62	1,032.57	996.42	-1,032.57	1.68	-1.46	6.02
5,728.00	6.76	23.83	5,504.91	1,042.68	1,001.79	-1,042.68	1.27	-0.71	-8.59
5,823.00	4.71	37.13	5,599.44	1,050.91	1,006.41	-1,050.91	2.56	-2.16	14.00
5,918.00	4.64	27.00	5,694.12	1,057.44	1,010.51	-1,057.44	0.87	-0.07	-10.66
6,013.00	2.93	14.42	5,788.91	1,063.22	1,012.86	-1,063.22	1.99	-1.80	-13.24
6,108.00	1.57	354.18	5,883.84	1,066.86	1,013.33	-1,066.86	1.64	-1.43	-21.31
6,202.00	0.21	114.49	5,977.83	1,068.07	1,013.36	-1,068.07	1.79	-1.45	127.99
6,296.00	0.39	162.80	6,071.83	1,067.69	1,013.61	-1,067.69	0.31	0.19	51.39
6,389.00	0.96	193.94	6,164.82	1,066.64	1,013.51	-1,066.64	0.71	0.61	33.48
6,482.00	0.86	207.09	6,257.81	1,065.26	1,013.01	-1,065.26	0.25	-0.11	14.14
6,577.00	1.25	204.18	6,352.79	1,063.68	1,012.26	-1,063.68	0.41	0.41	-3.06
6,672.00	1.30	207.92	6,447.77	1,061.78	1,011.33	-1,061.78	0.10	0.05	3.94
6,766.00	1.22	243.92	6,541.75	1,060.40	1,009.93	-1,060.40	0.83	-0.09	38.30
6,860.00	1.32	246.91	6,635.72	1,059.53	1,008.04	-1,059.53	0.13	0.11	3.18
6,953.00	1.59	225.78	6,728.69	1,058.21	1,006.13	-1,058.21	0.64	0.29	-22.72
First SDI MWD Curve Survey									
6,955.00	1.67	221.42	6,730.69	1,058.17	1,006.09	-1,058.17	7.34	3.95	-217.81
Curve KOP									
7,048.00	7.90	176.08	6,823.34	1,050.77	1,005.63	-1,050.77	7.34	6.70	-48.76
7,142.00	16.60	177.85	6,915.11	1,030.87	1,006.57	-1,030.87	9.26	9.26	1.88
7,237.00	24.41	172.70	7,004.03	997.79	1,009.58	-997.79	8.43	8.22	-5.42
7,332.00	34.39	173.76	7,086.69	951.53	1,015.01	-951.53	10.52	10.51	1.12
7,426.00	45.10	173.80	7,158.87	891.87	1,021.51	-891.87	11.39	11.39	0.04
7,520.00	51.87	175.08	7,221.14	821.85	1,028.28	-821.85	7.27	7.20	1.36
7,614.00	61.75	177.88	7,272.54	743.44	1,033.00	-743.44	10.80	10.51	2.98
7,709.00	71.22	180.44	7,310.40	656.45	1,034.20	-656.45	10.27	9.97	2.69
7,796.77	79.75	179.97	7,332.38	571.56	1,033.90	-571.56	9.73	9.72	-0.53
Enter Land Box: 7796.77' MD & 7332.38' TVD									
7,801.00	80.16	179.95	7,333.12	567.39	1,033.91	-567.39	9.73	9.72	-0.51
7,896.00	89.73	177.72	7,341.48	472.90	1,035.84	-472.90	10.34	10.07	-2.35
Landing Point: 559' FNL 2365' FWL Sec 8 - Last SDI MWD Curve Survey									
7,990.00	91.95	178.42	7,340.10	378.97	1,039.01	-378.97	2.48	2.36	0.74
First SDI MWD Lateral Survey									
8,085.00	91.75	179.54	7,337.04	284.03	1,040.70	-284.03	1.20	-0.21	1.18
8,179.00	91.75	178.79	7,334.16	190.09	1,042.07	-190.09	0.80	0.00	-0.80
8,272.00	91.45	178.63	7,331.57	97.15	1,044.16	-97.15	0.37	-0.32	-0.17

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Well:	FL Greens 14N-8HZ	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)
8,365.00	91.31	178.04	7,329.33	4.21	1,046.86	-4.21	0.65	-0.15	-0.63
8,458.00	91.95	178.92	7,326.68	-88.71	1,049.33	88.71	1.17	0.69	0.95
8,553.00	91.61	180.83	7,323.73	-183.66	1,049.53	183.66	2.04	-0.36	2.01
8,646.00	91.65	181.01	7,321.09	-276.61	1,048.04	276.61	0.20	0.04	0.19
8,739.00	91.38	180.61	7,318.63	-369.57	1,046.73	369.57	0.52	-0.29	-0.43
8,833.00	91.68	180.75	7,316.12	-463.53	1,045.61	463.53	0.35	0.32	0.15
8,928.00	91.07	180.34	7,313.84	-558.50	1,044.71	558.50	0.77	-0.64	-0.43
9,023.00	90.24	179.87	7,312.75	-653.49	1,044.53	653.49	1.00	-0.87	-0.49
9,036.62	90.18	179.88	7,312.70	-667.11	1,044.56	667.11	0.45	-0.44	0.10
Exit 460' Circle: 9036.62' MD & 7312.7' TVD 1700' FNL 2373' FWL									
9,116.00	89.83	179.96	7,312.70	-746.49	1,044.67	746.49	0.45	-0.44	0.10
9,211.00	90.20	179.87	7,312.67	-841.49	1,044.81	841.49	0.40	0.39	-0.09
9,304.00	90.17	178.92	7,312.37	-934.49	1,045.79	934.49	1.02	-0.03	-1.02
9,399.00	90.44	177.94	7,311.86	-1,029.45	1,048.40	1,029.45	1.07	0.28	-1.03
9,493.00	90.44	177.87	7,311.14	-1,123.38	1,051.83	1,123.38	0.07	0.00	-0.07
9,587.00	89.19	178.30	7,311.45	-1,217.33	1,054.97	1,217.33	1.41	-1.33	0.46
9,679.00	89.53	179.17	7,312.47	-1,309.30	1,057.01	1,309.30	1.02	0.37	0.95
9,774.00	90.23	178.72	7,312.67	-1,404.28	1,058.75	1,404.28	0.88	0.74	-0.47
9,867.00	90.90	181.15	7,311.76	-1,497.27	1,058.86	1,497.27	2.71	0.72	2.61
9,962.00	90.17	180.77	7,310.87	-1,592.25	1,057.27	1,592.25	0.87	-0.77	-0.40
10,057.00	90.74	181.53	7,310.11	-1,687.23	1,055.36	1,687.23	1.00	0.60	0.80
10,151.00	91.51	182.14	7,308.27	-1,781.16	1,052.35	1,781.16	1.04	0.82	0.65
10,247.00	91.31	183.58	7,305.91	-1,877.01	1,047.56	1,877.01	1.51	-0.21	1.50
10,342.00	92.35	180.50	7,302.87	-1,971.89	1,044.18	1,971.89	3.42	1.09	-3.24
10,435.00	91.38	179.90	7,299.85	-2,064.83	1,043.86	2,064.83	1.23	-1.04	-0.65
10,529.00	90.50	179.90	7,298.30	-2,158.82	1,044.02	2,158.82	0.94	-0.94	0.00
10,623.00	89.02	180.08	7,298.70	-2,252.82	1,044.04	2,252.82	1.59	-1.57	0.19
10,716.00	89.36	180.27	7,300.01	-2,345.81	1,043.76	2,345.81	0.42	0.37	0.20
10,813.00	88.08	179.57	7,302.18	-2,442.78	1,043.89	2,442.78	1.50	-1.32	-0.72
10,904.00	88.35	179.27	7,305.01	-2,533.73	1,044.81	2,533.73	0.44	0.30	-0.33
10,999.00	88.93	179.52	7,307.27	-2,628.70	1,045.81	2,628.70	0.66	0.61	0.26
11,093.00	88.92	178.53	7,309.03	-2,722.67	1,047.41	2,722.67	1.05	-0.01	-1.05
11,187.00	89.56	178.48	7,310.28	-2,816.63	1,049.87	2,816.63	0.68	0.68	-0.05
11,282.00	89.87	178.22	7,310.75	-2,911.59	1,052.60	2,911.59	0.43	0.33	-0.27
11,376.00	91.61	178.24	7,309.54	-3,005.53	1,055.50	3,005.53	1.85	1.85	0.02
11,471.00	90.17	178.16	7,308.06	-3,100.47	1,058.49	3,100.47	1.52	-1.52	-0.08
11,566.00	90.77	178.03	7,307.28	-3,195.41	1,061.65	3,195.41	0.65	0.63	-0.14
11,660.00	89.97	179.10	7,306.67	-3,289.38	1,064.00	3,289.38	1.42	-0.85	1.14
11,754.00	91.17	178.60	7,305.74	-3,383.35	1,065.89	3,383.35	1.38	1.28	-0.53
11,847.00	90.57	180.32	7,304.33	-3,476.34	1,066.76	3,476.34	1.96	-0.65	1.85
11,942.00	89.43	181.04	7,304.33	-3,571.33	1,065.64	3,571.33	1.42	-1.20	0.76
12,037.00	90.50	181.52	7,304.39	-3,666.30	1,063.51	3,666.30	1.23	1.13	0.51
12,131.00	89.76	181.17	7,304.17	-3,760.27	1,061.31	3,760.27	0.87	-0.79	-0.37

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well FL Greens 14N-8HZ
Project:	US Rockies Wattenberg Planning UTM83	TVD Reference:	GL 4925' & KB 20' @ 4945.00ft (Precision 461)
Site:	FL Greens 18-8HZ Pad	MD Reference:	GL 4925' & KB 20' @ 4945.00ft (Precision 461)
Well:	FL Greens 14N-8HZ	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)	
12,224.00	88.66	180.69	7,305.45	-3,853.25	1,059.80	3,853.25	1.29	-1.18	-0.52	
12,240.89	88.69	180.61	7,305.84	-3,870.14	1,059.61	3,870.14	0.53	0.18	-0.50	
Enter 460' Circle: 12240.89' MD & 7305.84' TVD 377' FSL 2387' FWL										
12,318.00	88.83	180.22	7,307.51	-3,947.23	1,059.05	3,947.23	0.53	0.18	-0.50	
12,412.00	89.90	179.99	7,308.55	-4,041.22	1,058.88	4,041.22	1.16	1.14	-0.24	
12,505.00	91.14	179.86	7,307.71	-4,134.21	1,059.00	4,134.21	1.34	1.33	-0.14	
Last SDI MWD Survey										
12,571.00	91.14	179.86	7,306.40	-4,200.20	1,059.16	4,200.20	0.00	0.00	0.00	
Projection to TD: 47' FSL 2387' FWL Sec 8										

Design Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
215.00	215.00	0.43	0.75	First SDI MWD Survey	
1,839.00	1,815.22	167.81	180.84	Last SDI MWD Surface Survey	
1,942.00	1,914.17	187.57	201.46	First SDI MWD Production Survey	
6,953.00	6,728.69	1,058.21	1,006.13	First SDI MWD Curve Survey	
6,955.00	6,730.69	1,058.17	1,006.09	Curve KOP	
7,796.77	7,332.38	571.56	1,033.90	Enter Land Box: 7796.77' MD & 7332.38' TVD	
7,896.00	7,341.48	472.90	1,035.84	Landing Point: 559' FNL 2365' FWL Sec 8	
7,896.00	7,341.48	472.90	1,035.84	Last SDI MWD Curve Survey	
7,990.00	7,340.10	378.97	1,039.01	First SDI MWD Lateral Survey	
9,036.62	7,312.70	-667.11	1,044.56	Exit 460' Circle: 9036.62' MD & 7312.7' TVD 1700' FNL 2373' FWL	
12,240.89	7,305.84	-3,870.14	1,059.61	Enter 460' Circle: 12240.89' MD & 7305.84' TVD 377' FSL 2387' FWL	
12,505.00	7,307.71	-4,134.21	1,059.00	Last SDI MWD Survey	
12,571.00	7,306.40	-4,200.20	1,059.16	Projection to TD: 47' FSL 2387' FWL Sec 8	

Checked By: _____	Approved By: _____	Date: _____
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