



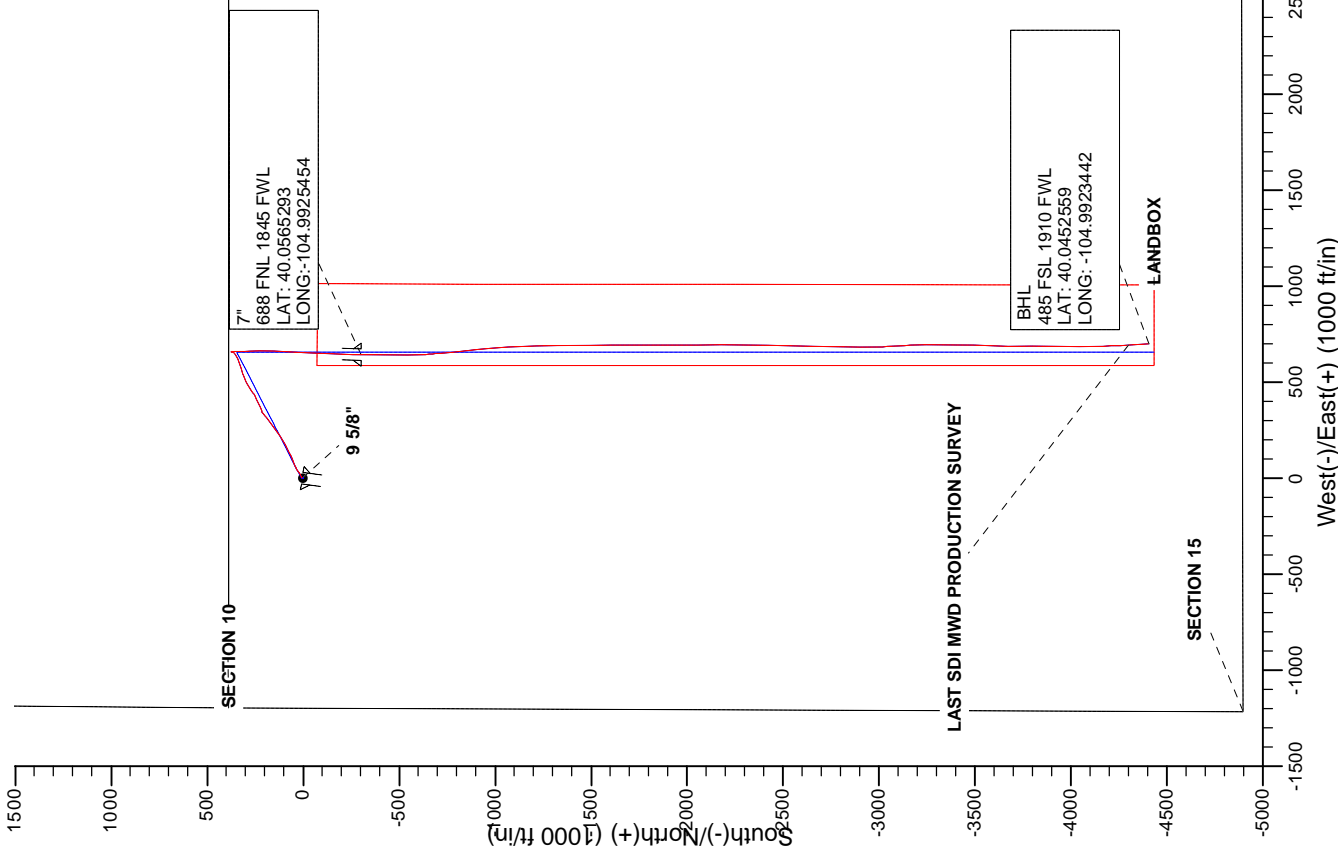
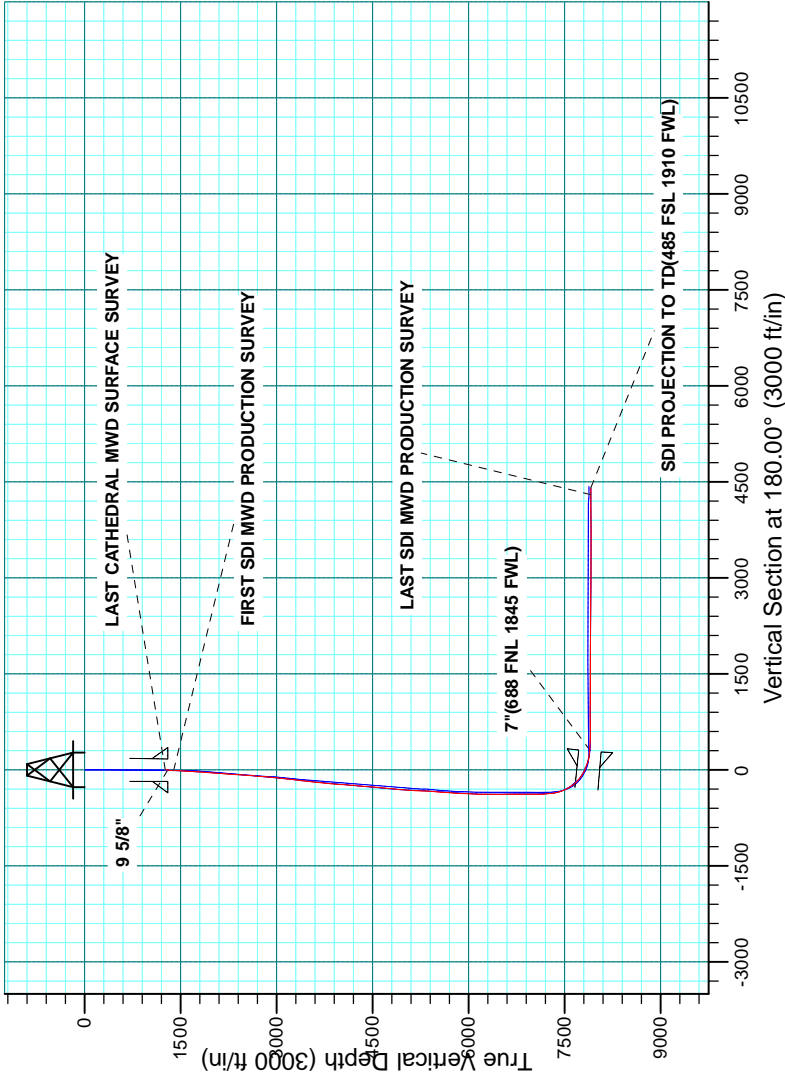
Project: COLORADO NORTHERN ZONE - 83
Site: BUFFALO & BADGER 4E-15HZ PAD
Well: BUFFALO 14C-15HZ
Wellbore: OH
Design: OH



WELL DETAILS: BUFFALO 14C-15HZ					
GL 5132 & KB 20 @ 5152.00ft (PRECISION 461)					
+N/-S 0.00	+E/-W 0.00	Northing 1264141.81	Easting 3141400.65	Latitude 40.0573529	Longitude -104.9949470

PROJECT DETAILS: COLORADO NORTHERN ZONE - 83	
Geodetic System: US State Plane 1983	
Datum: North American Datum 1983	
Ellipsoid: GRS 1980	
Zone: Colorado Northern Zone	
Location: SECTION 15 T1N R68W	
System Datum: Mean Sea Level	

CASING DETAILS		
TVD	MD	Name
1300.97	1301.00	9 5/8"
7884.15	8337.00	7"



Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well BUFFALO 14C-15HZ
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	GL 5132 & KB 20 @ 5152.00ft (PRECISION 461)
Site:	BUFFALO & BADGER 4E-15HZ PAD	MD Reference:	GL 5132 & KB 20 @ 5152.00ft (PRECISION 461)
Well:	BUFFALO 14C-15HZ	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Denver Sales

Project	COLORADO NORTHERN ZONE - 83, KERR MCGEE OIL & GAS ONSHORE LP		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		

Site		BUFFALO & BADGER 4E-15HZ PAD, SECTION 15 T1N R68W			
Site Position:		Northing:	1,264,140.95 usft	Latitude:	40.0573510
From:	Lat/Long	Easting:	3,141,370.70 usft	Longitude:	-104.9949540
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.33 °

Well		BUFFALO 14C-15HZ, 388 FNL 1199 FWL				
Well Position	+N/-S	0.00 ft	Northing:	1,264,141.81 usft	Latitude:	40.0573529
	+E/-W	0.00 ft	Easting:	3,141,400.65 usft	Longitude:	-104.9948470
Position Uncertainty		0.00 ft	Wellhead Elevation:	0.00 ft	Ground Level:	5,132.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2013	6/5/2014	8.61	66.62	52,526

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	4/9/2015			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
14.00	1,261.00	Survey #1 CATHEDRAL MWD SURFACE	MWD	MWD - Standard	
1,392.00	12,447.00	Survey #2 SDI MWD PRODUCTION (OH)	MWD+IFR	MWD + IFR correction	

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	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	
14.00	0.00	0.00	14.00	0.00	0.00	0.00	0.00	0.00	0.00	
66.00	0.20	98.50	66.00	-0.01	0.09	0.01	0.38	0.38	0.00	
FIRST CATHEDRAL MWD SURFACE SURVEY										
156.00	0.40	88.00	156.00	-0.03	0.56	0.03	0.23	0.22	-11.67	
262.00	0.40	98.50	262.00	-0.07	1.29	0.07	0.07	0.00	9.91	
342.00	0.30	21.30	341.99	0.09	1.65	-0.09	0.55	-0.13	-96.50	
422.00	0.50	54.70	421.99	0.48	2.01	-0.48	0.37	0.25	41.75	

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well BUFFALO 14C-15HZ
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Site:	BUFFALO & BADGER 4E-15HZ PAD	MD Reference:	GL 5132 & KB 20 @ 5152.00ft (PRECISION 461)
Well:	BUFFALO 14C-15HZ	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Denver Sales

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
502.00	0.60	46.80	501.99	0.97	2.60	-0.97	0.16	0.13	-9.88
582.00	0.40	69.30	581.99	1.36	3.16	-1.36	0.35	-0.25	28.13
662.00	0.40	62.60	661.98	1.58	3.67	-1.58	0.06	0.00	-8.38
742.00	0.30	9.20	741.98	1.92	3.96	-1.92	0.41	-0.13	-66.75
822.00	0.50	303.70	821.98	2.32	3.70	-2.32	0.58	0.25	-81.88
902.00	0.40	322.20	901.98	2.73	3.24	-2.73	0.22	-0.13	23.13
982.00	0.40	288.20	981.98	3.04	2.80	-3.04	0.29	0.00	-42.50
1,062.00	0.40	283.40	1,061.98	3.19	2.26	-3.19	0.04	0.00	-6.00
1,142.00	0.30	303.50	1,141.97	3.37	1.82	-3.37	0.20	-0.13	25.13
1,261.00	0.70	320.50	1,260.97	4.11	1.10	-4.11	0.35	0.34	14.29
LAST CATHEDRAL MWD SURFACE SURVEY									
1,301.00	0.84	7.76	1,300.97	4.59	0.98	-4.59	1.58	0.35	118.15
9 5/8"									
1,392.00	2.04	42.75	1,391.94	6.44	2.17	-6.44	1.58	1.32	38.45
FIRST SDI MWD PRODUCTION SURVEY									
1,487.00	4.45	59.10	1,486.78	9.57	6.48	-9.57	2.69	2.54	17.21
1,576.00	7.34	63.89	1,575.30	13.85	14.55	-13.85	3.29	3.25	5.38
1,666.00	7.28	60.21	1,664.57	19.21	24.66	-19.21	0.52	-0.07	-4.09
1,756.00	8.09	54.16	1,753.76	25.75	34.74	-25.75	1.27	0.90	-6.72
1,846.00	8.69	57.76	1,842.80	33.09	45.63	-33.09	0.89	0.67	4.00
1,935.00	8.86	60.98	1,930.76	40.00	57.31	-40.00	0.58	0.19	3.62
2,025.00	10.06	68.73	2,019.54	46.21	70.70	-46.21	1.94	1.33	8.61
2,115.00	11.46	69.53	2,107.95	52.19	86.40	-52.19	1.56	1.56	0.89
2,205.00	10.68	71.34	2,196.28	57.99	102.67	-57.99	0.95	-0.87	2.01
2,294.00	10.37	65.84	2,283.78	63.90	117.80	-63.90	1.18	-0.35	-6.18
2,384.00	9.21	63.26	2,372.47	70.46	131.62	-70.46	1.38	-1.29	-2.87
2,474.00	9.89	58.53	2,461.22	77.74	144.65	-77.74	1.15	0.76	-5.26
2,564.00	9.13	68.42	2,549.99	84.40	157.88	-84.40	2.00	-0.84	10.99
2,653.00	10.27	59.16	2,637.72	91.06	171.26	-91.06	2.17	1.28	-10.40
2,743.00	8.85	57.51	2,726.47	98.90	183.99	-98.90	1.61	-1.58	-1.83
2,833.00	9.59	58.98	2,815.31	106.48	196.25	-106.48	0.86	0.82	1.63
2,923.00	10.02	60.89	2,903.99	114.15	209.52	-114.15	0.60	0.48	2.12
3,012.00	11.52	54.68	2,991.43	123.06	223.53	-123.06	2.13	1.69	-6.98
3,102.00	9.85	52.44	3,079.86	132.94	236.97	-132.94	1.91	-1.86	-2.49
3,192.00	9.99	52.37	3,168.52	142.40	249.25	-142.40	0.16	0.16	-0.08
3,282.00	10.03	52.94	3,257.15	151.89	261.69	-151.89	0.12	0.04	0.63
3,371.00	10.67	53.04	3,344.70	161.52	274.46	-161.52	0.72	0.72	0.11
3,461.00	9.57	50.30	3,433.30	171.31	286.87	-171.31	1.33	-1.22	-3.04
3,551.00	9.46	52.46	3,522.06	180.59	298.50	-180.59	0.42	-0.12	2.40
3,641.00	9.36	58.54	3,610.85	188.92	310.60	-188.92	1.11	-0.11	6.76
3,730.00	10.52	52.96	3,698.51	197.59	323.26	-197.59	1.69	1.30	-6.27
3,820.00	10.93	52.45	3,786.94	207.74	336.59	-207.74	0.47	0.46	-0.57

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well BUFFALO 14C-15HZ
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	GL 5132 & KB 20 @ 5152.00ft (PRECISION 461)
Site:	BUFFALO & BADGER 4E-15HZ PAD	MD Reference:	GL 5132 & KB 20 @ 5152.00ft (PRECISION 461)
Well:	BUFFALO 14C-15HZ	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Denver Sales

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
3,910.00	8.85	63.73	3,875.61	216.01	349.56	-216.01	3.15	-2.31	12.53
4,000.00	9.17	65.91	3,964.50	222.00	362.32	-222.00	0.52	0.36	2.42
4,089.00	10.32	67.60	4,052.21	227.93	376.16	-227.93	1.33	1.29	1.90
4,179.00	10.76	65.81	4,140.69	234.44	391.28	-234.44	0.61	0.49	-1.99
4,269.00	11.49	64.31	4,229.00	241.77	407.02	-241.77	0.87	0.81	-1.67
4,359.00	9.87	64.22	4,317.44	249.01	422.04	-249.01	1.80	-1.80	-0.10
4,448.00	11.14	58.86	4,404.95	256.78	436.27	-256.78	1.80	1.43	-6.02
4,538.00	9.46	56.41	4,493.50	265.37	449.88	-265.37	1.93	-1.87	-2.72
4,628.00	8.58	54.34	4,582.38	273.37	461.49	-273.37	1.04	-0.98	-2.30
4,718.00	10.26	59.00	4,671.17	281.42	473.82	-281.42	2.05	1.87	5.18
4,808.00	10.51	59.58	4,759.69	289.70	487.77	-289.70	0.30	0.28	0.64
4,897.00	12.37	65.99	4,846.92	297.69	503.48	-297.69	2.53	2.09	7.20
4,987.00	12.33	68.37	4,934.84	305.15	521.22	-305.15	0.57	-0.04	2.64
5,077.00	11.03	69.27	5,022.98	311.74	538.20	-311.74	1.46	-1.44	1.00
5,167.00	8.25	70.48	5,111.70	316.95	552.34	-316.95	3.10	-3.09	1.34
5,257.00	8.26	72.38	5,200.76	321.07	564.59	-321.07	0.30	0.01	2.11
5,347.00	9.59	72.68	5,289.67	325.25	577.91	-325.25	1.48	1.48	0.33
5,436.00	12.15	69.60	5,377.07	330.73	593.77	-330.73	2.95	2.88	-3.46
5,526.00	11.05	67.76	5,465.23	337.29	610.63	-337.29	1.29	-1.22	-2.04
5,616.00	9.37	64.17	5,553.80	343.75	625.21	-343.75	2.00	-1.87	-3.99
5,706.00	6.89	58.86	5,642.89	349.73	636.42	-349.73	2.88	-2.76	-5.90
5,796.00	5.98	55.48	5,732.32	355.18	644.91	-355.18	1.09	-1.01	-3.76
5,885.00	5.18	51.24	5,820.90	360.33	651.86	-360.33	1.01	-0.90	-4.76
5,975.00	3.82	41.99	5,910.62	365.10	657.04	-365.10	1.71	-1.51	-10.28
6,065.00	2.82	37.21	6,000.47	369.09	660.38	-369.09	1.15	-1.11	-5.31
6,155.00	2.19	30.47	6,090.39	372.34	662.59	-372.34	0.77	-0.70	-7.49
6,245.00	2.00	327.52	6,180.34	375.14	662.62	-375.14	2.44	-0.21	-69.94
6,334.00	0.62	328.29	6,269.31	376.86	661.53	-376.86	1.55	-1.55	0.87
6,424.00	1.34	165.84	6,359.30	376.26	661.53	-376.26	2.16	0.80	-180.50
6,514.00	0.84	141.41	6,449.29	374.72	662.20	-374.72	0.75	-0.56	-27.14
6,604.00	0.53	255.37	6,539.29	374.10	662.21	-374.10	1.29	-0.34	126.62
6,694.00	0.78	273.95	6,629.28	374.04	661.20	-374.04	0.36	0.28	20.64
6,784.00	0.65	291.04	6,719.27	374.26	660.11	-374.26	0.28	-0.14	18.99
6,873.00	0.64	304.49	6,808.27	374.72	659.23	-374.72	0.17	-0.01	15.11
6,963.00	0.36	303.59	6,898.26	375.17	658.58	-375.17	0.31	-0.31	-1.00
7,053.00	0.55	331.14	6,988.26	375.70	658.14	-375.70	0.32	0.21	30.61
7,143.00	1.05	7.37	7,078.25	376.90	658.03	-376.90	0.76	0.56	40.26
7,232.00	1.31	189.26	7,167.25	376.70	657.97	-376.70	2.65	0.29	-200.12
7,322.00	4.56	168.35	7,257.12	372.18	658.53	-372.18	3.74	3.61	-23.23
7,412.00	11.70	179.55	7,346.16	359.53	659.33	-359.53	8.09	7.93	12.44
7,502.00	17.51	175.79	7,433.22	336.89	660.39	-336.89	6.54	6.46	-4.18
7,592.00	26.60	177.43	7,516.54	303.18	662.29	-303.18	10.12	10.10	1.82

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Site:	BUFFALO & BADGER 4E-15HZ PAD	MD Reference:	GL 5132 & KB 20 @ 5152.00ft (PRECISION 461)
Well:	BUFFALO 14C-15HZ	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Denver Sales

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
7,681.00	33.98	176.44	7,593.34	258.39	664.73	-258.39	8.31	8.29	-1.11	
7,771.00	42.84	181.22	7,663.81	202.58	665.65	-202.58	10.38	9.84	5.31	
7,861.00	49.33	184.89	7,726.21	137.90	662.08	-137.90	7.78	7.21	4.08	
7,951.00	60.15	181.77	7,778.10	64.65	657.95	-64.65	12.35	12.02	-3.47	
8,040.00	65.85	181.94	7,818.49	-14.58	655.38	14.58	6.41	6.40	0.19	
8,130.00	71.48	183.12	7,851.22	-98.29	651.67	98.29	6.37	6.26	1.31	
8,220.00	76.10	182.76	7,876.33	-184.57	647.24	184.57	5.15	5.13	-0.40	
8,295.00	83.20	180.94	7,889.80	-258.27	644.87	258.27	9.76	9.47	-2.43	
8,337.00	84.92	180.72	7,894.15	-300.03	644.27	300.03	4.12	4.09	-0.53	
7"(688 FNL 1845 FWL)										
8,389.00	87.04	180.44	7,897.80	-351.90	643.75	351.90	4.12	4.09	-0.53	
8,479.00	90.60	180.45	7,899.65	-441.86	643.05	441.86	3.96	3.96	0.01	
8,568.00	90.94	179.57	7,898.45	-530.86	643.03	530.86	1.06	0.38	-0.99	
8,658.00	90.70	178.40	7,897.17	-620.83	644.63	620.83	1.33	-0.27	-1.30	
8,748.00	89.16	174.42	7,897.28	-710.63	650.26	710.63	4.74	-1.71	-4.42	
8,838.00	90.50	173.80	7,897.54	-800.15	659.50	800.15	1.64	1.49	-0.69	
8,928.00	89.46	173.44	7,897.57	-889.60	669.50	889.60	1.22	-1.16	-0.40	
9,017.00	90.94	176.09	7,897.26	-978.21	677.62	978.21	3.41	1.66	2.98	
9,107.00	91.21	177.03	7,895.57	-1,068.03	683.02	1,068.03	1.09	0.30	1.04	
9,197.00	87.28	177.75	7,896.76	-1,157.92	687.11	1,157.92	4.44	-4.37	0.80	
9,287.00	89.50	179.55	7,899.29	-1,247.85	689.23	1,247.85	3.18	2.47	2.00	
9,377.00	90.94	179.48	7,898.94	-1,337.84	689.99	1,337.84	1.60	1.60	-0.08	
9,466.00	89.56	179.72	7,898.56	-1,426.83	690.62	1,426.83	1.57	-1.55	0.27	
9,556.00	90.34	178.97	7,898.63	-1,516.83	691.64	1,516.83	1.20	0.87	-0.83	
9,646.00	90.30	179.51	7,898.13	-1,606.82	692.84	1,606.82	0.60	-0.04	0.60	
9,736.00	89.90	180.05	7,897.97	-1,696.82	693.18	1,696.82	0.75	-0.44	0.60	
9,825.00	90.70	179.99	7,897.51	-1,785.81	693.15	1,785.81	0.90	0.90	-0.07	
9,915.00	89.80	179.76	7,897.12	-1,875.81	693.35	1,875.81	1.03	-1.00	-0.26	
10,005.00	90.50	179.55	7,896.88	-1,965.81	693.89	1,965.81	0.81	0.78	-0.23	
10,095.00	88.79	179.68	7,897.44	-2,055.80	694.50	2,055.80	1.91	-1.90	0.14	
10,184.00	89.23	180.23	7,898.98	-2,144.79	694.57	2,144.79	0.79	0.49	0.62	
10,274.00	87.35	178.98	7,901.66	-2,234.74	695.19	2,234.74	2.51	-2.09	-1.39	
10,364.00	91.14	180.32	7,902.85	-2,324.71	695.73	2,324.71	4.47	4.21	1.49	
10,454.00	90.50	181.02	7,901.56	-2,414.70	694.68	2,414.70	1.05	-0.71	0.78	
10,544.00	88.39	181.93	7,902.43	-2,504.66	692.37	2,504.66	2.55	-2.34	1.01	
10,633.00	88.99	181.53	7,904.47	-2,593.59	689.68	2,593.59	0.81	0.67	-0.45	
10,723.00	89.70	181.55	7,905.49	-2,683.55	687.26	2,683.55	0.79	0.79	0.02	
10,813.00	87.75	180.34	7,907.50	-2,773.51	685.78	2,773.51	2.55	-2.17	-1.34	
10,903.00	90.54	180.73	7,908.84	-2,863.49	684.94	2,863.49	3.13	3.10	0.43	
10,992.00	90.23	179.92	7,908.24	-2,952.48	684.43	2,952.48	0.97	-0.35	-0.91	
11,082.00	88.39	177.50	7,909.33	-3,042.44	686.46	3,042.44	3.38	-2.04	-2.69	
11,172.00	89.36	176.56	7,911.09	-3,132.30	691.12	3,132.30	1.50	1.08	-1.04	

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well BUFFALO 14C-15HZ
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	GL 5132 & KB 20 @ 5152.00ft (PRECISION 461)
Site:	BUFFALO & BADGER 4E-15HZ PAD	MD Reference:	GL 5132 & KB 20 @ 5152.00ft (PRECISION 461)
Well:	BUFFALO 14C-15HZ	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Denver Sales

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
11,262.00	90.70	178.76	7,911.05	-3,222.22	694.79	3,222.22	2.86	1.49	2.44	
11,351.00	90.44	179.89	7,910.16	-3,311.21	695.84	3,311.21	1.30	-0.29	1.27	
11,441.00	89.56	179.99	7,910.16	-3,401.21	695.94	3,401.21	0.98	-0.98	0.11	
11,531.00	89.53	182.07	7,910.87	-3,491.19	694.32	3,491.19	2.31	-0.03	2.31	
11,621.00	90.47	182.48	7,910.87	-3,581.11	690.75	3,581.11	1.14	1.04	0.46	
11,710.00	90.17	181.24	7,910.38	-3,670.06	687.86	3,670.06	1.43	-0.34	-1.39	
11,800.00	89.53	179.52	7,910.61	-3,760.06	687.26	3,760.06	2.04	-0.71	-1.91	
11,890.00	89.46	180.63	7,911.41	-3,850.05	687.14	3,850.05	1.24	-0.08	1.23	
11,980.00	89.56	180.38	7,912.18	-3,940.05	686.35	3,940.05	0.30	0.11	-0.28	
12,070.00	90.10	180.30	7,912.44	-4,030.04	685.82	4,030.04	0.61	0.60	-0.09	
12,159.00	89.73	178.93	7,912.58	-4,119.04	686.41	4,119.04	1.59	-0.42	-1.54	
12,249.00	90.00	177.88	7,912.79	-4,209.00	688.92	4,209.00	1.20	0.30	-1.17	
12,339.00	89.53	176.21	7,913.16	-4,298.88	693.56	4,298.88	1.93	-0.52	-1.86	
LAST SDI MWD PRODUCTION SURVEY										
12,447.00	89.53	176.21	7,914.04	-4,406.64	700.70	4,406.64	0.00	0.00	0.00	
SDI PROJECTION TO TD(485 FSL 1910 FWL)										

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
1,301.00	1,300.97	9 5/8"	9.625	13.500	
8,337.00	7,894.15	7"(688 FNL 1845 FWL)	7.000	8.750	

Design Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
66.00	66.00	-0.01	0.09	FIRST CATHEDRAL MWD SURFACE SURVEY	
1,261.00	1,260.97	4.11	1.10	LAST CATHEDRAL MWD SURFACE SURVEY	
1,392.00	1,391.94	6.44	2.17	FIRST SDI MWD PRODUCTION SURVEY	
12,339.00	7,913.16	-4,298.88	693.56	LAST SDI MWD PRODUCTION SURVEY	
12,447.00	7,914.04	-4,406.64	700.70	SDI PROJECTION TO TD(485 FSL 1910 FWL)	

Checked By: _____	Approved By: _____	Date: _____
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