



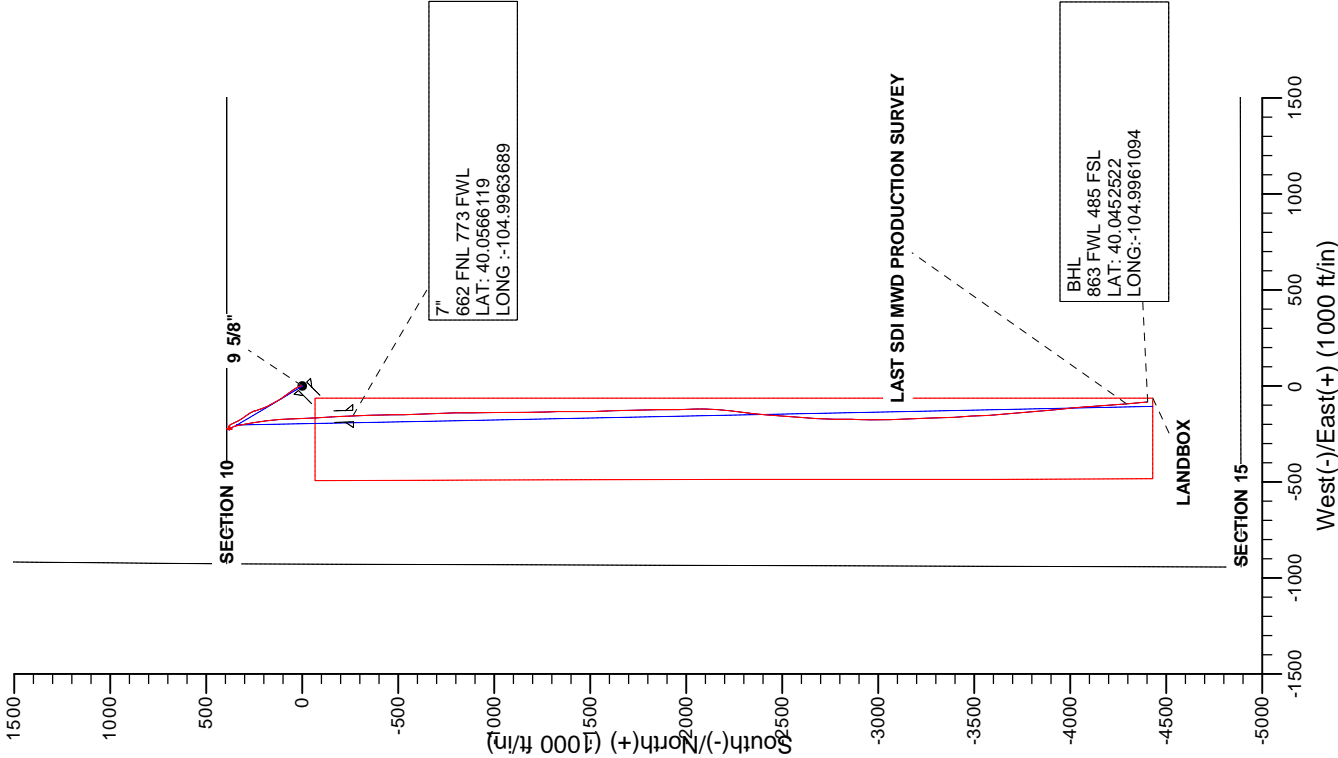
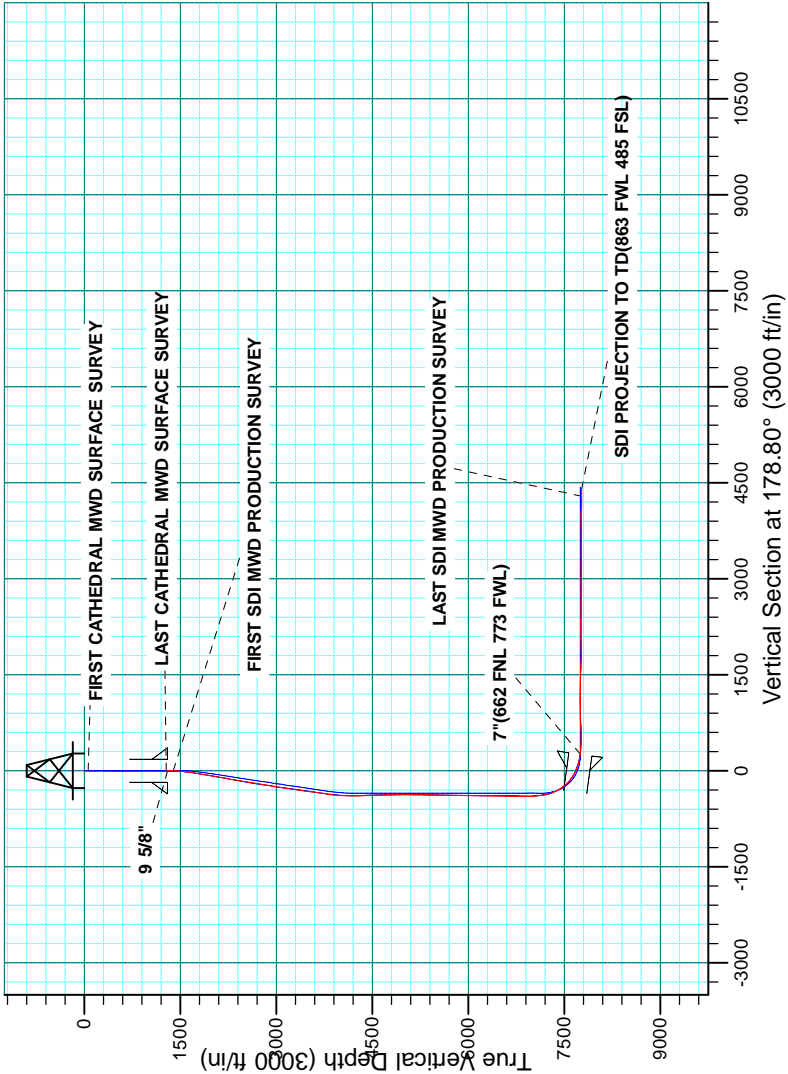
Project: COLORADO NORTHERN ZONE - 83
Site: BUFFALO & BADGER 4C-15HZ PAD
Well: BUFFALO 13N-15HZ
Wellbore: OH
Design: OH



WELL DETAILS: BUFFALO 13N-15HZ					
GL 5138 & KB 20 @ 5158.00ft (PRECISION 461)					
+N/-S 0.00	+E/-W 0.00	Northing 1264135.17	Easting 3141130.84	Latitude 40.0573389	Longitude -104.9958110

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
1302.98	1303.00	9 5/8"
7754.88	8150.00	7"



Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well BUFFALO 13N-15HZ
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	GL 5138 & KB 20 @ 5158.00ft (PRECISION 461)
Site:	BUFFALO & BADGER 4C-15HZ PAD	MD Reference:	GL 5138 & KB 20 @ 5158.00ft (PRECISION 461)
Well:	BUFFALO 13N-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 4C-15HZ PAD, SECTION 15 T1N R68W			
Site Position:		Northing:	1,264,136.65 usft	Latitude:	40.0573420
From:	Lat/Long	Easting:	3,141,190.73 usft	Longitude:	-104.9955970
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.33 °

Well		BUFFALO 13N-15HZ, 393' FNL 929' FWL				
Well Position	+N/-S	0.00 ft	Northing:	1,264,135.17 usft	Latitude:	40.0573389
	+E/-W	0.00 ft	Easting:	3,141,130.84 usft	Longitude:	-104.9958110
Position Uncertainty		0.00 ft	Wellhead Elevation:	0.00 ft	Ground Level:	5,138.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	6/5/2014	8.63	66.62	52,536

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	178.80	

Survey Program	Date	5/20/2015			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
14.00	1,287.00	Survey #1 CATHEDRAL MWD SURFACE	MWD	MWD - Standard	
1,391.00	12,295.00	Survey #2 SDI MWD PRODUCTION (OH)	SDI MWD	SDI MWD - Standard ver 1.0.1	

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	0.10	46.70	66.00	0.03	0.03	-0.03	0.19	0.19	0.00	
FIRST CATHEDRAL MWD SURFACE SURVEY										
176.00	0.30	278.50	176.00	0.14	-0.18	-0.14	0.34	0.18	-116.55	
256.00	0.20	260.70	256.00	0.15	-0.53	-0.16	0.16	-0.13	-22.25	
336.00	0.30	238.40	336.00	0.02	-0.84	-0.03	0.17	0.13	-27.88	
416.00	0.30	278.50	416.00	-0.06	-1.23	0.04	0.26	0.00	50.13	

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well BUFFALO 13N-15HZ
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Site:	BUFFALO & BADGER 4C-15HZ PAD	MD Reference:	GL 5138 & KB 20 @ 5158.00ft (PRECISION 461)
Well:	BUFFALO 13N-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)
496.00	0.60	266.70	495.99	-0.06	-1.85	0.02	0.39	0.38	-14.75
576.00	0.50	248.10	575.99	-0.21	-2.60	0.16	0.25	-0.13	-23.25
656.00	0.40	254.90	655.99	-0.41	-3.19	0.35	0.14	-0.13	8.50
736.00	0.00	0.00	735.99	-0.49	-3.46	0.41	0.50	-0.50	0.00
816.00	0.20	110.20	815.99	-0.53	-3.33	0.46	0.25	0.25	0.00
896.00	0.30	77.30	895.99	-0.54	-2.99	0.47	0.21	0.13	-41.13
976.00	0.40	84.30	975.99	-0.46	-2.51	0.41	0.14	0.13	8.75
1,056.00	0.20	98.50	1,055.98	-0.46	-2.09	0.41	0.26	-0.25	17.75
1,216.00	0.50	82.30	1,215.98	-0.40	-1.13	0.38	0.20	0.19	-10.13
1,287.00	0.30	126.50	1,286.98	-0.47	-0.67	0.46	0.50	-0.28	62.25
LAST CATHEDRAL MWD SURFACE SURVEY									
1,303.00	0.47	45.50	1,302.98	-0.45	-0.59	0.44	3.22	1.05	-506.28
9 5/8"									
1,391.00	3.23	15.19	1,390.93	2.19	0.32	-2.19	3.22	3.14	-34.44
FIRST SDI MWD PRODUCTION SURVEY									
1,481.00	4.88	357.69	1,480.70	8.47	0.83	-8.45	2.27	1.83	-19.44
1,571.00	5.95	338.27	1,570.31	16.63	-1.05	-16.64	2.34	1.19	-21.58
1,660.00	7.04	327.39	1,658.74	25.51	-5.70	-25.62	1.84	1.22	-12.22
1,750.00	9.75	326.71	1,747.76	36.52	-12.86	-36.78	3.01	3.01	-0.76
1,840.00	12.49	324.62	1,836.07	50.83	-22.68	-51.30	3.08	3.04	-2.32
1,930.00	12.12	322.63	1,924.00	66.28	-34.05	-66.97	0.63	-0.41	-2.21
2,020.00	11.92	322.79	2,012.03	81.19	-45.40	-82.12	0.23	-0.22	0.18
2,109.00	11.80	322.10	2,099.13	95.69	-56.55	-96.85	0.21	-0.13	-0.78
2,199.00	11.69	331.10	2,187.25	110.93	-66.61	-112.30	2.04	-0.12	10.00
2,289.00	11.33	330.17	2,275.44	126.58	-75.42	-128.14	0.45	-0.40	-1.03
2,379.00	10.83	328.54	2,363.76	141.47	-84.23	-143.20	0.66	-0.56	-1.81
2,468.00	10.59	331.93	2,451.21	155.81	-92.44	-157.72	0.76	-0.27	3.81
2,558.00	10.16	332.20	2,539.74	170.13	-100.03	-172.19	0.48	-0.48	0.30
2,648.00	9.76	331.43	2,628.38	183.85	-107.38	-186.06	0.47	-0.44	-0.86
2,738.00	10.62	341.75	2,716.97	198.43	-113.63	-200.77	2.24	0.96	11.47
2,828.00	10.50	341.75	2,805.45	214.10	-118.79	-216.54	0.13	-0.13	0.00
2,917.00	9.78	340.41	2,893.06	228.92	-123.87	-231.46	0.85	-0.81	-1.51
3,007.00	9.90	340.76	2,981.73	243.43	-128.98	-246.07	0.15	0.13	0.39
3,097.00	9.44	334.90	3,070.45	257.41	-134.66	-260.18	1.21	-0.51	-6.51
3,187.00	8.59	336.20	3,159.34	270.25	-140.50	-273.13	0.97	-0.94	1.44
3,276.00	9.63	324.36	3,247.23	282.38	-147.52	-285.41	2.40	1.17	-13.30
3,366.00	8.97	321.99	3,336.04	294.03	-156.23	-297.23	0.85	-0.73	-2.63
3,456.00	9.74	327.83	3,424.85	306.00	-164.61	-309.38	1.36	0.86	6.49
3,546.00	9.44	329.03	3,513.59	318.77	-172.46	-322.31	0.40	-0.33	1.33
3,636.00	8.52	328.90	3,602.49	330.81	-179.70	-334.50	1.02	-1.02	-0.14
3,725.00	9.85	333.59	3,690.34	343.27	-186.49	-347.10	1.71	1.49	5.27
3,815.00	8.82	335.59	3,779.15	356.45	-192.77	-360.41	1.20	-1.14	2.22

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Site:	BUFFALO & BADGER 4C-15HZ PAD	MD Reference:	GL 5138 & KB 20 @ 5158.00ft (PRECISION 461)
Well:	BUFFALO 13N-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)	
3,905.00	7.61	332.45	3,868.23	368.02	-198.38	-372.09	1.43	-1.34	-3.49	
3,995.00	5.93	323.24	3,957.60	377.03	-203.91	-381.22	2.22	-1.87	-10.23	
4,085.00	3.86	308.35	4,047.27	382.63	-209.07	-386.93	2.68	-2.30	-16.54	
4,174.00	2.93	275.84	4,136.12	384.72	-213.69	-389.11	2.36	-1.04	-36.53	
4,264.00	1.14	270.09	4,226.06	384.96	-216.87	-389.42	2.00	-1.99	-6.39	
4,354.00	1.38	141.55	4,316.05	384.11	-217.09	-388.57	2.53	0.27	-142.82	
4,444.00	1.28	166.46	4,406.02	382.29	-216.18	-386.73	0.65	-0.11	27.68	
4,533.00	1.54	176.80	4,495.00	380.13	-215.88	-384.56	0.41	0.29	11.62	
4,623.00	1.61	188.31	4,584.96	377.67	-216.00	-382.11	0.36	0.08	12.79	
4,713.00	1.41	182.99	4,674.93	375.31	-216.24	-379.76	0.27	-0.22	-5.91	
4,892.00	1.43	211.44	4,853.88	371.21	-217.52	-375.68	0.39	0.01	15.89	
4,982.00	1.47	212.68	4,943.85	369.28	-218.73	-373.77	0.06	0.04	1.38	
5,072.00	1.25	247.30	5,033.83	367.92	-220.26	-372.46	0.93	-0.24	38.47	
5,162.00	1.38	259.30	5,123.80	367.34	-222.23	-371.92	0.34	0.14	13.33	
5,251.00	1.81	262.34	5,212.77	366.96	-224.67	-371.58	0.49	0.48	3.42	
5,341.00	1.26	342.69	5,302.75	367.71	-226.38	-372.37	2.25	-0.61	89.28	
5,521.00	2.03	357.35	5,482.67	372.79	-227.11	-377.46	0.48	0.43	8.14	
5,611.00	1.66	346.40	5,572.62	375.65	-227.49	-380.33	0.57	-0.41	-12.17	
5,700.00	1.37	329.94	5,661.59	377.82	-228.33	-382.52	0.58	-0.33	-18.49	
5,790.00	1.56	326.68	5,751.56	379.78	-229.54	-384.50	0.23	0.21	-3.62	
5,880.00	1.02	51.93	5,841.55	381.29	-229.58	-386.02	1.99	-0.60	94.72	
5,970.00	1.23	70.10	5,931.53	382.12	-228.04	-386.81	0.46	0.23	20.19	
6,060.00	1.14	71.28	6,021.51	382.73	-226.29	-387.39	0.10	-0.10	1.31	
6,150.00	1.08	37.29	6,111.49	383.69	-224.93	-388.32	0.72	-0.07	-37.77	
6,239.00	1.15	18.69	6,200.48	385.21	-224.13	-389.82	0.41	0.08	-20.90	
6,329.00	0.42	119.23	6,290.47	385.90	-223.55	-390.50	1.44	-0.81	111.71	
6,419.00	0.54	125.15	6,380.47	385.50	-222.92	-390.08	0.14	0.13	6.58	
6,509.00	0.57	354.23	6,470.47	385.70	-222.62	-390.28	1.12	0.03	-145.47	
6,599.00	0.61	309.68	6,560.46	386.45	-223.03	-391.04	0.50	0.04	-49.50	
6,688.00	1.27	327.60	6,649.45	387.58	-223.92	-392.19	0.80	0.74	20.13	
6,778.00	1.51	317.33	6,739.42	389.30	-225.26	-393.93	0.38	0.27	-11.41	
6,868.00	1.38	20.81	6,829.40	391.18	-225.68	-395.82	1.69	-0.14	70.53	
6,958.00	0.23	69.85	6,919.39	392.26	-225.13	-396.89	1.38	-1.28	54.49	
7,048.00	1.11	178.12	7,009.39	391.45	-224.93	-396.07	1.34	0.98	120.30	
7,137.00	5.36	165.59	7,098.22	386.56	-223.87	-391.16	4.81	4.78	-14.08	
7,227.00	11.51	159.81	7,187.21	374.05	-219.72	-378.57	6.89	6.83	-6.42	
7,317.00	17.81	160.37	7,274.23	352.64	-211.99	-357.00	7.00	7.00	0.62	
7,407.00	24.02	168.46	7,358.28	321.69	-203.69	-325.88	7.59	6.90	8.99	
7,496.00	34.33	171.05	7,435.89	279.03	-196.14	-283.08	11.67	11.58	2.91	
7,586.00	39.17	169.71	7,507.98	225.97	-187.11	-229.83	5.45	5.38	-1.49	
7,676.00	46.39	174.15	7,574.01	165.49	-178.70	-169.20	8.69	8.02	4.93	
7,766.00	57.74	177.18	7,629.26	94.83	-173.49	-98.44	12.89	12.61	3.37	

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Well:	BUFFALO 13N-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)	
7,855.00	64.87	177.93	7,671.96	16.88	-170.17	-20.44	8.05	8.01	0.84	
7,945.00	71.03	176.79	7,705.73	-66.40	-166.32	62.90	6.94	6.84	-1.27	
8,035.00	75.18	176.70	7,731.88	-152.36	-161.43	148.95	4.61	4.61	-0.10	
8,108.00	79.14	177.52	7,748.10	-223.43	-157.84	220.07	5.53	5.42	1.12	
8,150.00	82.29	177.85	7,754.88	-264.84	-156.17	261.51	7.54	7.50	0.78	
7"(662 FNL 773 FWL)										
8,233.00	88.52	178.48	7,761.52	-347.49	-153.52	344.20	7.54	7.50	0.76	
8,322.00	90.23	177.85	7,762.49	-436.44	-150.67	433.18	2.05	1.92	-0.71	
8,412.00	89.83	178.83	7,762.45	-526.40	-148.06	523.18	1.18	-0.44	1.09	
8,502.00	90.54	178.84	7,762.16	-616.38	-146.23	613.18	0.79	0.79	0.01	
8,592.00	91.51	178.26	7,760.55	-706.33	-143.96	703.16	1.26	1.08	-0.64	
8,681.00	91.48	179.02	7,758.23	-795.28	-141.84	792.13	0.85	-0.03	0.85	
8,771.00	91.85	178.34	7,755.61	-885.21	-139.77	882.09	0.86	0.41	-0.76	
8,861.00	91.91	179.85	7,752.66	-975.15	-138.35	972.04	1.68	0.07	1.68	
8,951.00	90.17	179.84	7,751.02	-1,065.13	-138.11	1,062.01	1.93	-1.93	-0.01	
9,040.00	90.37	179.79	7,750.60	-1,154.13	-137.82	1,150.99	0.23	0.22	-0.06	
9,130.00	88.52	179.40	7,751.48	-1,244.12	-137.19	1,240.97	2.10	-2.06	-0.43	
9,220.00	89.29	178.87	7,753.20	-1,334.09	-135.83	1,330.96	1.04	0.86	-0.59	
9,310.00	90.44	179.09	7,753.41	-1,424.08	-134.22	1,420.95	1.30	1.28	0.24	
9,399.00	87.49	178.97	7,755.02	-1,513.04	-132.72	1,509.93	3.32	-3.31	-0.13	
9,489.00	86.41	177.87	7,759.80	-1,602.88	-130.24	1,599.80	1.71	-1.20	-1.22	
9,579.00	88.39	178.61	7,763.89	-1,692.73	-127.48	1,689.69	2.35	2.20	0.82	
9,669.00	89.56	178.73	7,765.50	-1,782.69	-125.39	1,779.68	1.31	1.30	0.13	
9,759.00	91.48	179.56	7,764.68	-1,872.68	-124.05	1,869.67	2.32	2.13	0.92	
9,848.00	91.81	178.53	7,762.13	-1,961.63	-122.57	1,958.63	1.21	0.37	-1.16	
9,938.00	89.77	179.77	7,760.88	-2,051.60	-121.23	2,048.61	2.65	-2.27	1.38	
10,028.00	89.90	183.07	7,761.14	-2,141.56	-123.46	2,138.50	3.67	0.14	3.67	
10,118.00	89.36	186.39	7,761.72	-2,231.24	-130.88	2,228.01	3.74	-0.60	3.69	
10,208.00	89.63	186.77	7,762.52	-2,320.64	-141.19	2,317.18	0.52	0.30	0.42	
10,298.00	89.90	185.86	7,762.89	-2,410.09	-151.09	2,406.40	1.05	0.30	-1.01	
10,387.00	89.09	182.58	7,763.67	-2,498.84	-157.64	2,494.99	3.80	-0.91	-3.69	
10,477.00	90.10	184.52	7,764.31	-2,588.66	-163.21	2,584.67	2.43	1.12	2.16	
10,567.00	90.17	182.66	7,764.10	-2,678.48	-168.85	2,674.35	2.07	0.08	-2.07	
10,747.00	89.66	181.24	7,764.36	-2,858.37	-174.97	2,854.07	0.84	-0.28	-0.79	
10,926.00	89.73	179.48	7,765.32	-3,037.35	-176.10	3,033.00	0.98	0.04	-0.98	
11,016.00	89.63	177.73	7,765.82	-3,127.32	-173.91	3,122.99	1.95	-0.11	-1.94	
11,106.00	89.93	177.68	7,766.16	-3,217.25	-170.30	3,212.98	0.34	0.33	-0.06	
11,196.00	89.80	177.77	7,766.38	-3,307.18	-166.73	3,302.96	0.18	-0.14	0.10	
11,285.00	89.80	177.43	7,766.69	-3,396.10	-163.00	3,391.94	0.38	0.00	-0.38	
11,375.00	90.17	176.23	7,766.71	-3,485.96	-158.03	3,481.88	1.40	0.41	-1.33	
11,465.00	89.97	176.37	7,766.60	-3,575.77	-152.22	3,571.80	0.27	-0.22	0.16	
11,555.00	90.07	175.53	7,766.57	-3,665.55	-145.86	3,661.69	0.94	0.11	-0.93	

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well BUFFALO 13N-15HZ
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	GL 5138 & KB 20 @ 5158.00ft (PRECISION 461)
Site:	BUFFALO & BADGER 4C-15HZ PAD	MD Reference:	GL 5138 & KB 20 @ 5158.00ft (PRECISION 461)
Well:	BUFFALO 13N-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)	
11,645.00	89.73	175.77	7,766.73	-3,755.29	-139.04	3,751.55	0.46	-0.38	0.27	
11,734.00	90.10	174.70	7,766.86	-3,843.98	-131.64	3,840.38	1.27	0.42	-1.20	
11,824.00	89.80	174.59	7,766.94	-3,933.58	-123.24	3,930.14	0.36	-0.33	-0.12	
11,914.00	89.63	174.90	7,767.38	-4,023.20	-115.00	4,019.91	0.39	-0.19	0.34	
12,004.00	89.40	175.53	7,768.15	-4,112.89	-107.49	4,109.73	0.75	-0.26	0.70	
12,094.00	89.33	175.74	7,769.14	-4,202.62	-100.64	4,199.59	0.25	-0.08	0.23	
12,183.00	89.97	174.94	7,769.69	-4,291.32	-93.41	4,288.43	1.15	0.72	-0.90	
LAST SDI MWD PRODUCTION SURVEY										
12,295.00	89.97	174.94	7,769.75	-4,402.89	-83.54	4,400.17	0.00	0.00	0.00	
SDI PROJECTION TO TD(863 FWL 485 FSL)										

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
1,303.00	1,302.98	9 5/8"	9.625	13.500	
8,150.00	7,754.88	7"(662 FNL 773 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	0.03	0.03	FIRST CATHEDRAL MWD SURFACE SURVEY	
1,287.00	1,286.98	-0.47	-0.67	LAST CATHEDRAL MWD SURFACE SURVEY	
1,391.00	1,390.93	2.19	0.32	FIRST SDI MWD PRODUCTION SURVEY	
12,183.00	7,769.69	-4,291.32	-93.41	LAST SDI MWD PRODUCTION SURVEY	
12,295.00	7,769.75	-4,402.89	-83.54	SDI PROJECTION TO TD(863 FWL 485 FSL)	

Checked By: _____	Approved By: _____	Date: _____
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