



Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well McConahay 1D-34H-H266
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 5088.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 5088.0ft (Original Well Elev)
Site:	S34-T2N-R66W (McConahay)	North Reference:	True
Well:	McConahay 1D-34H-H266	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

Project	DJ Wattenberg		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		

Site		S34-T2N-R66W (McConahay)			
Site Position:		Northing:	1,280,109.37 ft	Latitude:	40.099880
From:	Lat/Long	Easting:	3,208,491.04 ft	Longitude:	-104.754720
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	0.48 °

Well	McConahay 1D-34H-H266					
Well Position	+N/-S	0.0 ft	Northing:	1,279,402.92 ft	Latitude:	40.097960
	+E/-W	0.0 ft	Easting:	3,207,654.89 ft	Longitude:	-104.757730
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	5,063.0 ft

Wellbore	Hz				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	7/16/2013	8.55	66.74	52,752

Design	Plan #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	265.00

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,803.5	16.04	139.36	1,782.7	-169.2	145.2	1.00	1.00	0.00	139.36	
6,858.8	16.04	139.36	6,641.3	-1,228.8	1,054.6	0.00	0.00	0.00	0.00	
7,851.4	90.00	265.00	7,289.0	-1,428.8	504.5	10.00	7.45	12.66	124.57	
12,101.4	90.00	265.00	7,289.0	-1,799.2	-3,729.4	0.00	0.00	0.00	0.00	McConahay 1D-34H-I

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Project:	DJ Wattenberg	MD Reference:	WELL @ 5088.0ft (Original Well Elev)
Site:	S34-T2N-R66W (McConahay)	North Reference:	True
Well:	McConahay 1D-34H-H266	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	KOP @ 200'
300.0	1.00	139.36	300.0	-0.7	0.6	-0.5	1.00	1.00	
400.0	2.00	139.36	400.0	-2.6	2.3	-2.0	1.00	1.00	
500.0	3.00	139.36	499.9	-6.0	5.1	-4.6	1.00	1.00	
600.0	4.00	139.36	599.7	-10.6	9.1	-8.1	1.00	1.00	
700.0	5.00	139.36	699.4	-16.5	14.2	-12.7	1.00	1.00	
800.0	6.00	139.36	798.9	-23.8	20.4	-18.3	1.00	1.00	
900.0	7.00	139.36	898.3	-32.4	27.8	-24.9	1.00	1.00	
1,000.0	8.00	139.36	997.4	-42.3	36.3	-32.5	1.00	1.00	
1,005.7	8.06	139.36	1,003.0	-42.9	36.8	-32.9	1.00	1.00	Fox Hills - BASE
1,100.0	9.00	139.36	1,096.3	-53.5	45.9	-41.1	1.00	1.00	
1,200.0	10.00	139.36	1,194.9	-66.1	56.7	-50.7	1.00	1.00	
1,300.0	11.00	139.36	1,293.3	-79.9	68.6	-61.3	1.00	1.00	
1,400.0	12.00	139.36	1,391.2	-95.0	81.5	-73.0	1.00	1.00	
1,500.0	13.00	139.36	1,488.9	-111.4	95.6	-85.6	1.00	1.00	
1,600.0	14.00	139.36	1,586.1	-129.2	110.8	-99.2	1.00	1.00	
1,700.0	15.00	139.36	1,682.9	-148.2	127.1	-113.8	1.00	1.00	
1,800.0	16.00	139.36	1,779.3	-168.4	144.6	-129.3	1.00	1.00	
1,803.5	16.04	139.36	1,782.7	-169.2	145.2	-129.9	1.00	1.00	EOB; Inc=16.04°
1,900.0	16.04	139.36	1,875.4	-189.4	162.5	-145.4	0.00	0.00	
2,000.0	16.04	139.36	1,971.5	-210.4	180.5	-161.5	0.00	0.00	
2,100.0	16.04	139.36	2,067.6	-231.3	198.5	-177.6	0.00	0.00	
2,200.0	16.04	139.36	2,163.7	-252.3	216.5	-193.7	0.00	0.00	
2,300.0	16.04	139.36	2,259.8	-273.2	234.5	-209.8	0.00	0.00	
2,400.0	16.04	139.36	2,355.9	-294.2	252.5	-225.9	0.00	0.00	
2,500.0	16.04	139.36	2,452.1	-315.2	270.5	-242.0	0.00	0.00	
2,600.0	16.04	139.36	2,548.2	-336.1	288.5	-258.1	0.00	0.00	
2,700.0	16.04	139.36	2,644.3	-357.1	306.5	-274.2	0.00	0.00	
2,800.0	16.04	139.36	2,740.4	-378.0	324.4	-290.3	0.00	0.00	
2,900.0	16.04	139.36	2,836.5	-399.0	342.4	-306.4	0.00	0.00	
3,000.0	16.04	139.36	2,932.6	-420.0	360.4	-322.5	0.00	0.00	
3,100.0	16.04	139.36	3,028.7	-440.9	378.4	-338.5	0.00	0.00	
3,200.0	16.04	139.36	3,124.8	-461.9	396.4	-354.6	0.00	0.00	
3,300.0	16.04	139.36	3,220.9	-482.8	414.4	-370.7	0.00	0.00	
3,400.0	16.04	139.36	3,317.0	-503.8	432.4	-386.8	0.00	0.00	
3,500.0	16.04	139.36	3,413.1	-524.8	450.4	-402.9	0.00	0.00	
3,600.0	16.04	139.36	3,509.3	-545.7	468.4	-419.0	0.00	0.00	
3,700.0	16.04	139.36	3,605.4	-566.7	486.4	-435.1	0.00	0.00	
3,800.0	16.04	139.36	3,701.5	-587.7	504.3	-451.2	0.00	0.00	
3,900.0	16.04	139.36	3,797.6	-608.6	522.3	-467.3	0.00	0.00	
4,000.0	16.04	139.36	3,893.7	-629.6	540.3	-483.4	0.00	0.00	
4,100.0	16.04	139.36	3,989.8	-650.5	558.3	-499.5	0.00	0.00	
4,200.0	16.04	139.36	4,085.9	-671.5	576.3	-515.6	0.00	0.00	
4,300.0	16.04	139.36	4,182.0	-692.5	594.3	-531.7	0.00	0.00	
4,400.0	16.04	139.36	4,278.1	-713.4	612.3	-547.8	0.00	0.00	
4,500.0	16.04	139.36	4,374.2	-734.4	630.3	-563.9	0.00	0.00	
4,600.0	16.04	139.36	4,470.3	-755.3	648.3	-580.0	0.00	0.00	
4,700.0	16.04	139.36	4,566.5	-776.3	666.3	-596.1	0.00	0.00	
4,735.9	16.04	139.36	4,601.0	-783.8	672.7	-601.8	0.00	0.00	Sussex
4,800.0	16.04	139.36	4,662.6	-797.3	684.2	-612.2	0.00	0.00	

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Well:	McConahay 1D-34H-H266	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
4,900.0	16.04	139.36	4,758.7	-818.2	702.2	-628.2	0.00	0.00	
5,000.0	16.04	139.36	4,854.8	-839.2	720.2	-644.3	0.00	0.00	
5,057.5	16.04	139.36	4,910.0	-851.2	730.6	-653.6	0.00	0.00	Sussex Marker
5,100.0	16.04	139.36	4,950.9	-860.2	738.2	-660.4	0.00	0.00	
5,200.0	16.04	139.36	5,047.0	-881.1	756.2	-676.5	0.00	0.00	
5,300.0	16.04	139.36	5,143.1	-902.1	774.2	-692.6	0.00	0.00	
5,400.0	16.04	139.36	5,239.2	-923.0	792.2	-708.7	0.00	0.00	
5,436.2	16.04	139.36	5,274.0	-930.6	798.7	-714.5	0.00	0.00	Shannon
5,500.0	16.04	139.36	5,335.3	-944.0	810.2	-724.8	0.00	0.00	
5,600.0	16.04	139.36	5,431.4	-965.0	828.2	-740.9	0.00	0.00	
5,700.0	16.04	139.36	5,527.5	-985.9	846.2	-757.0	0.00	0.00	
5,800.0	16.04	139.36	5,623.7	-1,006.9	864.1	-773.1	0.00	0.00	
5,900.0	16.04	139.36	5,719.8	-1,027.8	882.1	-789.2	0.00	0.00	
6,000.0	16.04	139.36	5,815.9	-1,048.8	900.1	-805.3	0.00	0.00	
6,100.0	16.04	139.36	5,912.0	-1,069.8	918.1	-821.4	0.00	0.00	
6,200.0	16.04	139.36	6,008.1	-1,090.7	936.1	-837.5	0.00	0.00	
6,300.0	16.04	139.36	6,104.2	-1,111.7	954.1	-853.6	0.00	0.00	
6,400.0	16.04	139.36	6,200.3	-1,132.7	972.1	-869.7	0.00	0.00	
6,500.0	16.04	139.36	6,296.4	-1,153.6	990.1	-885.8	0.00	0.00	
6,600.0	16.04	139.36	6,392.5	-1,174.6	1,008.1	-901.9	0.00	0.00	
6,607.8	16.04	139.36	6,400.0	-1,176.2	1,009.5	-903.1	0.00	0.00	Teepee Buttes (*if present)
6,700.0	16.04	139.36	6,488.6	-1,195.5	1,026.0	-917.9	0.00	0.00	
6,800.0	16.04	139.36	6,584.7	-1,216.5	1,044.0	-934.0	0.00	0.00	
6,858.8	16.04	139.36	6,641.3	-1,228.8	1,054.6	-943.5	0.00	0.00	Start build/turn @ 6858' MD
6,900.0	14.10	153.42	6,681.1	-1,237.6	1,060.6	-948.7	10.00	-4.70	
7,000.0	14.00	195.49	6,778.3	-1,260.2	1,062.8	-948.9	10.00	-0.10	
7,100.0	19.74	224.39	6,874.1	-1,284.0	1,047.7	-931.8	10.00	5.74	
7,200.0	27.92	238.85	6,965.6	-1,308.3	1,015.8	-897.9	10.00	8.18	
7,300.0	36.96	246.91	7,049.9	-1,332.2	968.0	-848.2	10.00	9.04	
7,400.0	46.35	252.12	7,124.6	-1,355.2	905.7	-784.2	10.00	9.39	
7,444.3	50.57	253.93	7,154.0	-1,364.9	874.0	-751.7	10.00	9.53	Sharon Springs
7,500.0	55.91	255.90	7,187.3	-1,376.4	830.9	-707.8	10.00	9.59	
7,514.0	57.25	256.36	7,195.0	-1,379.2	819.6	-696.3	10.00	9.62	Niobrara
7,600.0	65.56	258.91	7,236.1	-1,395.3	745.9	-621.4	10.00	9.66	
7,700.0	75.26	261.48	7,269.6	-1,411.3	653.2	-527.7	10.00	9.70	
7,742.8	79.42	262.50	7,279.0	-1,417.1	611.8	-486.0	10.00	9.72	B Chalk
7,800.0	84.99	263.83	7,286.8	-1,423.8	555.6	-429.4	10.00	9.73	
7,851.4	90.00	265.00	7,289.0	-1,428.8	504.5	-378.0	10.00	9.74	LP @ 7289' TVD; 90°
7,900.0	90.00	265.00	7,289.0	-1,433.1	456.1	-329.4	0.00	0.00	
8,000.0	90.00	265.00	7,289.0	-1,441.8	356.5	-229.4	0.00	0.00	
8,100.0	90.00	265.00	7,289.0	-1,450.5	256.8	-129.4	0.00	0.00	
8,200.0	90.00	265.00	7,289.0	-1,459.2	157.2	-29.4	0.00	0.00	
8,300.0	90.00	265.00	7,289.0	-1,467.9	57.6	70.6	0.00	0.00	
8,400.0	90.00	265.00	7,289.0	-1,476.6	-42.0	170.6	0.00	0.00	
8,500.0	90.00	265.00	7,289.0	-1,485.4	-141.6	270.6	0.00	0.00	
8,600.0	90.00	265.00	7,289.0	-1,494.1	-241.3	370.6	0.00	0.00	
8,700.0	90.00	265.00	7,289.0	-1,502.8	-340.9	470.6	0.00	0.00	
8,800.0	90.00	265.00	7,289.0	-1,511.5	-440.5	570.6	0.00	0.00	
8,900.0	90.00	265.00	7,289.0	-1,520.2	-540.1	670.6	0.00	0.00	
9,000.0	90.00	265.00	7,289.0	-1,528.9	-639.7	770.6	0.00	0.00	
9,100.0	90.00	265.00	7,289.0	-1,537.7	-739.4	870.6	0.00	0.00	
9,200.0	90.00	265.00	7,289.0	-1,546.4	-839.0	970.6	0.00	0.00	

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Planning Report

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Project:	DJ Wattenberg	MD Reference:	WELL @ 5088.0ft (Original Well Elev)
Site:	S34-T2N-R66W (McConahay)	North Reference:	True
Well:	McConahay 1D-34H-H266	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
9,300.0	90.00	265.00	7,289.0	-1,555.1	-938.6	1,070.6	0.00	0.00	
9,400.0	90.00	265.00	7,289.0	-1,563.8	-1,038.2	1,170.6	0.00	0.00	
9,500.0	90.00	265.00	7,289.0	-1,572.5	-1,137.8	1,270.6	0.00	0.00	
9,600.0	90.00	265.00	7,289.0	-1,581.2	-1,237.5	1,370.6	0.00	0.00	
9,700.0	90.00	265.00	7,289.0	-1,589.9	-1,337.1	1,470.6	0.00	0.00	
9,800.0	90.00	265.00	7,289.0	-1,598.7	-1,436.7	1,570.6	0.00	0.00	
9,900.0	90.00	265.00	7,289.0	-1,607.4	-1,536.3	1,670.6	0.00	0.00	
10,000.0	90.00	265.00	7,289.0	-1,616.1	-1,635.9	1,770.6	0.00	0.00	
10,100.0	90.00	265.00	7,289.0	-1,624.8	-1,735.6	1,870.6	0.00	0.00	
10,200.0	90.00	265.00	7,289.0	-1,633.5	-1,835.2	1,970.6	0.00	0.00	
10,300.0	90.00	265.00	7,289.0	-1,642.2	-1,934.8	2,070.6	0.00	0.00	
10,400.0	90.00	265.00	7,289.0	-1,651.0	-2,034.4	2,170.6	0.00	0.00	
10,500.0	90.00	265.00	7,289.0	-1,659.7	-2,134.0	2,270.6	0.00	0.00	
10,600.0	90.00	265.00	7,289.0	-1,668.4	-2,233.7	2,370.6	0.00	0.00	
10,700.0	90.00	265.00	7,289.0	-1,677.1	-2,333.3	2,470.6	0.00	0.00	
10,800.0	90.00	265.00	7,289.0	-1,685.8	-2,432.9	2,570.6	0.00	0.00	
10,900.0	90.00	265.00	7,289.0	-1,694.5	-2,532.5	2,670.6	0.00	0.00	
11,000.0	90.00	265.00	7,289.0	-1,703.3	-2,632.1	2,770.6	0.00	0.00	
11,100.0	90.00	265.00	7,289.0	-1,712.0	-2,731.8	2,870.6	0.00	0.00	
11,200.0	90.00	265.00	7,289.0	-1,720.7	-2,831.4	2,970.6	0.00	0.00	
11,300.0	90.00	265.00	7,289.0	-1,729.4	-2,931.0	3,070.6	0.00	0.00	
11,400.0	90.00	265.00	7,289.0	-1,738.1	-3,030.6	3,170.6	0.00	0.00	
11,500.0	90.00	265.00	7,289.0	-1,746.8	-3,130.2	3,270.6	0.00	0.00	
11,600.0	90.00	265.00	7,289.0	-1,755.5	-3,229.8	3,370.6	0.00	0.00	
11,700.0	90.00	265.00	7,289.0	-1,764.3	-3,329.5	3,470.6	0.00	0.00	
11,800.0	90.00	265.00	7,289.0	-1,773.0	-3,429.1	3,570.6	0.00	0.00	
11,900.0	90.00	265.00	7,289.0	-1,781.7	-3,528.7	3,670.6	0.00	0.00	
12,000.0	90.00	265.00	7,289.0	-1,790.4	-3,628.3	3,770.6	0.00	0.00	
12,100.0	90.00	265.00	7,289.0	-1,799.1	-3,727.9	3,870.6	0.00	0.00	
12,101.4	90.00	265.00	7,289.0	-1,799.2	-3,729.4	3,872.0	0.00	0.00	TD at 12101.4 - McConahay 1D-34H-H266 PBF

Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
McConahay 1D-34H-H2I	0.00	0.00	7,289.0	-1,799.2	-3,729.4	1,277,572.52	3,203,940.72	40.093020	-104.771060
- hit/miss target									
- Shape									
- plan hits target center									
- Point									

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well McConahay 1D-34H-H266
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 5088.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 5088.0ft (Original Well Elev)
Site:	S34-T2N-R66W (McConahay)	North Reference:	True
Well:	McConahay 1D-34H-H266	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,005.7	1,003.0	Fox Hills - BASE				
4,735.9	4,601.0	Sussex				
5,057.5	4,910.0	Sussex Marker				
5,436.2	5,274.0	Shannon				
6,607.8	6,400.0	Teepee Buttes (*if present)				
7,444.3	7,154.0	Sharon Springs				
7,514.0	7,195.0	Niobrara				
7,742.8	7,279.0	B Chalk				

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
200.0	200.0	0.0	0.0	KOP @ 200'	
1,803.5	1,782.7	-169.2	145.2	EOB; Inc=16.04°	
6,858.8	6,641.3	-1,228.8	1,054.6	Start build/turn @ 6858' MD	
7,851.4	7,289.0	-1,428.8	504.5	LP @ 7289' TVD; 90°	
12,101.4	7,289.0	-1,799.2	-3,729.4	TD at 12101.4	

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

S34-T2N-R66W (McConahay)

McConahay 1D-34H-H266

Hz

Plan #1

Anticollision Report

16 July, 2013

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well McConahay 1D-34H-H266
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5088.0ft (Original Well Elev)
Reference Site:	S34-T2N-R66W (McConahay)	MD Reference:	WELL @ 5088.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	McConahay 1D-34H-H266	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Reference	Plan #1		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100.0ft	Error Model:	Systematic Ellipse
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 500.0ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program		Date	7/16/2013		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.0	12,101.4	Plan #1 (Hz)	Geolink MWD	Geolink MWD	

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
S34-T2N-R66W (McConahay)						
CONNER 11-34 (EXISTING) - MACEY & MERSHON WE						Out of range
CONNER 21-34 (EXISTING) - FOUNDATION WELL - NO						Out of range
CONNER 22-34 (EXISTING) - ENCANA WELL - GYRO						Out of range
CONNER 23-34 (EXISTING) - ENCANA WELL - NO SUR	10,584.0	7,222.0	215.2	133.0	2.618	CC, ES
CONNER 23-34 (EXISTING) - ENCANA WELL - NO SUR	10,600.0	7,222.0	215.8	133.2	2.613	SF
CONNER 24-34 (EXISTING) - FOUNDATION WELL - NO						Out of range
CONNER D&H 2 (EXISTING) - MARINER WELL - NO SU						Out of range
DARLENNE 1 (EXISTING) - ENCANA WELL - NO SURV						Out of range
ERICA 1 (EXISTING) - GREAT WESTERN WELL - NO S						Out of range
MCCONAHAY 1 (EXISTING) - ENCANA WELL - GYRO						Out of range
McConahay 1A-34H - Hz - Hz						Out of range
McConahay 1B-34H-H266 - Hz - Plan #1	200.0	199.0	21.9	21.2	35.882	CC, ES
McConahay 1B-34H-H266 - Hz - Plan #1	500.0	497.6	34.0	32.3	20.387	SF
McConahay 1C-34H-H266 - Hz - Plan #1	200.0	199.0	10.9	10.3	17.941	CC, ES
McConahay 1C-34H-H266 - Hz - Plan #1	600.0	599.2	19.5	17.5	9.589	SF
MCCONAHAY 31-34 (EXISTING) - ENCANA WELL - GYR						Out of range
MCCONAHAY 31-34 (EXISTING) MRP - MACHII-ROSS W						Out of range
MCCONAHAY 33-34 (EXISTING) - FOUNDATION WELL						Out of range
MCCONAHAY 41-34 (EXISTING) - ENCANA WELL - GYR						Out of range
MCCONAHAY 43-34 (EXISTING) - ENCANA WELL - NO	7,938.8	7,269.0	481.1	452.4	16.730	CC, ES
MCCONAHAY 43-34 (EXISTING) - ENCANA WELL - NO	8,000.0	7,269.0	485.0	456.0	16.721	SF
MCCONAHAY 44-34 (EXISTING) - ENCANA WELL - NO						Out of range
McConahay 4A-34H-P266 - Hz - Plan #2						Out of range
McConahay 4B-34H-P266 - Hz - Plan #3						Out of range
McConahay 4C-34H-P266 - Hz - Plan #2						Out of range
MCCONAHAY 6-4-34 (EXISTING) - ENCANA WELL - SU	8,597.1	7,367.2	426.9	389.3	11.367	CC
MCCONAHAY 6-4-34 (EXISTING) - ENCANA WELL - SU	8,600.0	7,367.2	426.9	389.3	11.352	ES
MCCONAHAY 6-4-34 (EXISTING) - ENCANA WELL - SU	8,700.0	7,367.1	439.1	399.6	11.105	SF
RANCHERO 1 (EXISTING) - ENCANA WELL - NO SURV	11,650.8	7,211.0	498.4	390.4	4.614	CC, ES, SF
RANCHERO 12-34 (EXISTING) - MACHII-ROSS WELL -						Out of range
RANCHERO 32-34 (EXISTING) - ENCANA WELL - GYRO						Out of range
SEYMOUR 34-34 (EXISTING) - ENCANA WELL - NO SU						Out of range

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well McConahay 1D-34H-H266
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5088.0ft (Original Well Elev)
Reference Site:	S34-T2N-R66W (McConahay)	MD Reference:	WELL @ 5088.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	McConahay 1D-34H-H266	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S34-T2N-R66W (McConahay) - CONNER 23-34 (EXISTING) - ENCANA WELL - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 8122-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
10,200.0	7,289.0	7,222.0	7,222.0	63.8	12.6	-90.00	-1,881.4	-2,199.0	440.3	367.2	73.00	6.030		
10,300.0	7,289.0	7,222.0	7,222.0	66.1	12.6	-90.00	-1,881.4	-2,199.0	356.4	281.0	75.39	4.727		
10,400.0	7,289.0	7,222.0	7,222.0	68.3	12.6	-90.00	-1,881.4	-2,199.0	283.2	205.4	77.78	3.641		
10,500.0	7,289.0	7,222.0	7,222.0	70.6	12.6	-90.00	-1,881.4	-2,199.0	231.1	150.9	80.18	2.882		
10,584.0	7,289.0	7,222.0	7,222.0	72.6	12.6	-90.00	-1,881.4	-2,199.0	215.2	133.0	82.20	2.618 CC, ES		
10,600.0	7,289.0	7,222.0	7,222.0	72.9	12.6	-90.00	-1,881.4	-2,199.0	215.8	133.2	82.59	2.613 SF		
10,700.0	7,289.0	7,222.0	7,222.0	75.3	12.6	-90.00	-1,881.4	-2,199.0	244.5	159.5	84.99	2.876		
10,800.0	7,289.0	7,222.0	7,222.0	77.6	12.6	-90.00	-1,881.4	-2,199.0	304.9	217.5	87.41	3.488		
10,900.0	7,289.0	7,222.0	7,222.0	79.9	12.6	-90.00	-1,881.4	-2,199.0	382.3	292.5	89.82	4.256		
11,000.0	7,289.0	7,222.0	7,222.0	82.3	12.6	-90.00	-1,881.4	-2,199.0	468.3	376.1	92.24	5.077		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well McConahay 1D-34H-H266
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5088.0ft (Original Well Elev)
Reference Site:	S34-T2N-R66W (McConahay)	MD Reference:	WELL @ 5088.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	McConahay 1D-34H-H266	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S34-T2N-R66W (McConahay) - McConahay 1B-34H-H266 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total	Separation	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Factor		
0.0	0.0	0.0	0.0	0.0	0.0	0.00	21.9	0.0	21.9					
100.0	100.0	99.0	99.0	0.1	0.1	0.00	21.9	0.0	21.9	21.6	0.26	83.906		
200.0	200.0	199.0	199.0	0.3	0.3	0.00	21.9	0.0	21.9	21.2	0.61	35.882 CC, ES		
300.0	300.0	298.7	298.7	0.5	0.5	-139.49	22.5	0.5	23.2	22.2	0.96	24.209		
400.0	400.0	398.3	398.2	0.7	0.7	-139.75	24.6	2.1	27.3	25.9	1.31	20.796		
500.0	499.9	497.6	497.5	0.8	0.8	-140.03	28.0	4.7	34.0	32.3	1.67	20.387 SF		
600.0	599.7	596.6	596.3	1.0	1.0	-140.25	32.8	8.3	43.5	41.4	2.03	21.367		
700.0	699.4	695.2	694.6	1.3	1.3	-140.41	38.9	12.9	55.6	53.2	2.41	23.063		
800.0	798.9	793.3	792.2	1.5	1.5	-140.51	46.4	18.5	70.4	67.6	2.80	25.142		
900.0	898.3	890.7	889.0	1.7	1.7	-140.56	55.1	25.0	87.9	84.7	3.21	27.415		
1,000.0	997.4	988.3	985.9	2.0	2.0	-140.70	64.8	32.4	107.7	104.1	3.62	29.712		
1,100.0	1,096.3	1,086.0	1,082.8	2.3	2.2	-141.23	74.6	39.8	128.9	124.8	4.05	31.787		
1,200.0	1,194.9	1,183.4	1,179.4	2.6	2.5	-141.98	84.4	47.1	151.4	146.9	4.50	33.691		
1,300.0	1,293.3	1,280.5	1,275.7	3.0	2.8	-142.85	94.1	54.5	175.4	170.4	4.94	35.469		
1,400.0	1,391.2	1,377.1	1,371.6	3.4	3.0	-143.77	103.8	61.8	200.7	195.3	5.40	37.158		
1,500.0	1,488.9	1,473.4	1,467.1	3.8	3.3	-144.71	113.5	69.1	227.5	221.6	5.86	38.783		
1,600.0	1,586.1	1,569.3	1,562.2	4.2	3.6	-145.64	123.1	76.3	255.7	249.3	6.33	40.363		
1,700.0	1,682.9	1,664.6	1,656.8	4.7	3.8	-146.55	132.7	83.6	285.3	278.5	6.81	41.912		
1,800.0	1,779.3	1,759.5	1,750.9	5.2	4.1	-147.43	142.2	90.7	316.5	309.2	7.29	43.439		
1,900.0	1,875.4	1,854.1	1,844.8	5.7	4.3	-148.37	151.7	97.9	348.5	340.7	7.77	44.835		
2,000.0	1,971.5	1,948.7	1,938.6	6.2	4.6	-149.16	161.2	105.1	380.5	372.3	8.26	46.077		
2,100.0	2,067.6	2,043.3	2,032.5	6.7	4.9	-149.83	170.7	112.2	412.6	403.9	8.74	47.188		
2,200.0	2,163.7	2,137.9	2,126.3	7.2	5.1	-150.41	180.2	119.4	444.8	435.6	9.23	48.189		
2,300.0	2,259.8	2,232.5	2,220.2	7.7	5.4	-150.90	189.7	126.5	477.0	467.3	9.72	49.094		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well McConahay 1D-34H-H266
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5088.0ft (Original Well Elev)
Reference Site:	S34-T2N-R66W (McConahay)	MD Reference:	WELL @ 5088.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	McConahay 1D-34H-H266	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S34-T2N-R66W (McConahay) - McConahay 1C-34H-H266 - Hz - Plan #1													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	0.00	10.9	0.0	11.0					
100.0	100.0	99.0	99.0	0.1	0.1	0.00	10.9	0.0	10.9	10.7	0.26	41.953	CC, ES	
200.0	200.0	199.0	199.0	0.3	0.3	0.00	10.9	0.0	10.9	10.3	0.61	17.941		
300.0	300.0	299.0	299.0	0.5	0.5	-142.17	10.9	0.0	11.6	10.6	0.96	12.107		
400.0	400.0	399.0	399.0	0.7	0.7	-145.54	10.7	0.8	13.4	12.1	1.31	10.253		
500.0	499.9	499.1	499.1	0.8	0.8	-145.70	10.0	3.3	16.1	14.4	1.67	9.642		
600.0	599.7	599.2	599.0	1.0	1.0	-143.93	8.9	7.5	19.5	17.5	2.03	9.589	SF	
700.0	699.4	699.2	698.9	1.3	1.2	-141.24	7.2	13.4	23.8	21.4	2.42	9.827		
800.0	798.9	799.2	798.5	1.5	1.4	-138.29	5.2	20.9	29.0	26.1	2.84	10.220		
900.0	898.3	899.1	898.0	1.7	1.7	-135.41	2.6	30.2	35.1	31.8	3.28	10.690		
1,000.0	997.4	998.9	997.2	2.0	1.9	-132.75	-0.4	41.0	42.2	38.4	3.77	11.186		
1,100.0	1,096.3	1,098.7	1,096.1	2.3	2.2	-130.38	-3.8	53.6	50.3	46.0	4.31	11.678		
1,200.0	1,194.9	1,198.4	1,194.7	2.6	2.5	-128.29	-7.7	67.8	59.4	54.5	4.89	12.147		
1,300.0	1,293.3	1,297.9	1,292.9	3.0	2.8	-126.45	-12.1	83.6	69.4	63.9	5.52	12.584		
1,400.0	1,391.2	1,397.3	1,390.7	3.4	3.1	-125.27	-16.7	100.4	80.5	74.3	6.18	13.036		
1,500.0	1,488.9	1,496.6	1,488.4	3.8	3.4	-125.23	-21.4	117.2	92.6	85.8	6.85	13.528		
1,600.0	1,586.1	1,595.7	1,586.0	4.2	3.8	-125.95	-26.0	134.1	105.7	98.2	7.52	14.055		
1,700.0	1,682.9	1,694.6	1,683.4	4.7	4.1	-127.15	-30.6	150.8	119.9	111.7	8.20	14.621		
1,800.0	1,779.3	1,793.4	1,780.6	5.2	4.5	-128.66	-35.2	167.6	135.2	126.3	8.88	15.230		
1,900.0	1,875.4	1,892.0	1,877.7	5.7	4.8	-130.22	-39.9	184.3	151.2	141.6	9.54	15.838		
2,000.0	1,971.5	1,990.7	1,974.8	6.2	5.1	-131.49	-44.5	201.1	167.2	157.0	10.21	16.376		
2,100.0	2,067.6	2,089.3	2,071.9	6.7	5.5	-132.54	-49.1	217.8	183.3	172.5	10.88	16.853		
2,200.0	2,163.7	2,188.0	2,169.0	7.2	5.8	-133.42	-53.7	234.5	199.5	188.0	11.55	17.279		
2,300.0	2,259.8	2,286.6	2,266.2	7.7	6.2	-134.16	-58.3	251.2	215.7	203.5	12.21	17.662		
2,400.0	2,355.9	2,385.2	2,363.3	8.2	6.5	-134.81	-62.9	268.0	232.0	219.1	12.88	18.006		
2,500.0	2,452.1	2,483.9	2,460.4	8.7	6.9	-135.36	-67.5	284.7	248.2	234.7	13.55	18.318		
2,600.0	2,548.2	2,582.5	2,557.5	9.2	7.2	-135.85	-72.1	301.4	264.5	250.3	14.22	18.602		
2,700.0	2,644.3	2,681.2	2,654.6	9.7	7.6	-136.29	-76.7	318.2	280.8	265.9	14.89	18.861		
2,800.0	2,740.4	2,779.8	2,751.7	10.3	7.9	-136.67	-81.3	334.9	297.1	281.6	15.56	19.098		
2,900.0	2,836.5	2,878.5	2,848.8	10.8	8.3	-137.01	-85.9	351.6	313.5	297.2	16.23	19.316		
3,000.0	2,932.6	2,977.1	2,945.9	11.3	8.6	-137.33	-90.6	368.4	329.8	312.9	16.90	19.517		
3,100.0	3,028.7	3,075.7	3,043.0	11.8	9.0	-137.61	-95.2	385.1	346.2	328.6	17.57	19.703		
3,200.0	3,124.8	3,174.4	3,140.1	12.3	9.3	-137.86	-99.8	401.8	362.5	344.3	18.24	19.876		
3,300.0	3,220.9	3,273.0	3,237.2	12.8	9.7	-138.10	-104.4	418.6	378.9	360.0	18.91	20.036		
3,400.0	3,317.0	3,371.7	3,334.3	13.4	10.0	-138.31	-109.0	435.3	395.2	375.7	19.58	20.185		
3,500.0	3,413.1	3,470.3	3,431.4	13.9	10.4	-138.51	-113.6	452.0	411.6	391.4	20.25	20.325		
3,600.0	3,509.3	3,568.9	3,528.5	14.4	10.7	-138.69	-118.2	468.7	428.0	407.1	20.92	20.456		
3,700.0	3,605.4	3,667.6	3,625.6	14.9	11.1	-138.86	-122.8	485.5	444.4	422.8	21.59	20.579		
3,800.0	3,701.5	3,766.2	3,722.7	15.4	11.4	-139.02	-127.4	502.2	460.8	438.5	22.27	20.694		
3,900.0	3,797.6	3,864.9	3,819.8	15.9	11.8	-139.16	-132.0	518.9	477.2	454.2	22.94	20.803		
4,000.0	3,893.7	3,963.5	3,916.9	16.5	12.1	-139.30	-136.6	535.7	493.5	469.9	23.61	20.905		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well McConahay 1D-34H-H266
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5088.0ft (Original Well Elev)
Reference Site:	S34-T2N-R66W (McConahay)	MD Reference:	WELL @ 5088.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	McConahay 1D-34H-H266	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S34-T2N-R66W (McConahay) - MCCONAHAY 43-34 (EXISTING) - ENCANA WELL - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 8230-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre +N/-S	+E/-W	Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor	Warning	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)				
7,900.0	7,289.0	7,269.0	7,269.0	29.9	12.7	-90.00	-1,915.7	459.4	482.7	454.1	28.59	16.884		
7,938.8	7,289.0	7,269.0	7,269.0	29.8	12.7	-90.00	-1,915.7	459.4	481.1	452.4	28.76	16.730 CC, ES		
8,000.0	7,289.0	7,269.0	7,269.0	29.8	12.7	-90.00	-1,915.7	459.4	485.0	456.0	29.01	16.721 SF		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well McConahay 1D-34H-H266
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5088.0ft (Original Well Elev)
Reference Site:	S34-T2N-R66W (McConahay)	MD Reference:	WELL @ 5088.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	McConahay 1D-34H-H266	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S34-T2N-R66W (McConahay) - MCCONAHAY 6-4-34 (EXISTING) - ENCANA WELL - SURVEYS													Offset Site Error: 0.0 ft
Survey Program: 1089-MWD													Offset Well Error: 0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre +N/-S	+E/-W	Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)			
8,400.0	7,289.0	7,367.5	7,264.3	30.9	21.0	90.13	-1,068.5	-275.6	470.2	436.1	34.08	13.799	
8,500.0	7,289.0	7,367.4	7,264.1	31.7	21.0	90.11	-1,068.5	-275.6	437.8	402.0	35.78	12.237	
8,597.1	7,289.0	7,367.2	7,264.0	32.6	21.0	90.09	-1,068.5	-275.6	426.9	389.3	37.55	11.367 CC	
8,600.0	7,289.0	7,367.2	7,264.0	32.7	21.0	90.09	-1,068.5	-275.6	426.9	389.3	37.61	11.352 ES	
8,700.0	7,289.0	7,367.1	7,263.8	33.9	21.0	90.07	-1,068.5	-275.6	439.1	399.6	39.54	11.105 SF	
8,800.0	7,289.0	7,366.9	7,263.7	35.3	21.0	90.05	-1,068.5	-275.6	472.7	431.1	41.56	11.373	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well McConahay 1D-34H-H266
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5088.0ft (Original Well Elev)
Reference Site:	S34-T2N-R66W (McConahay)	MD Reference:	WELL @ 5088.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	McConahay 1D-34H-H266	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S34-T2N-R66W (McConahay) - RANCHERO 1 (EXISTING) - ENCANA WELL - NO SURVEYS													Offset Site Error: 0.0 ft
Survey Program: 8084-Geolink MWD													Offset Well Error: 0.0 ft
Reference		Offset		Semi Major Axis		Distance							Warning
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre +N/-S	+E/-W	Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)			
11,650.8	7,289.0	7,211.0	7,211.0	97.7	12.6	-90.00	-2,256.5	-3,237.0	498.4	390.4	108.03	4.614 CC, ES, SF	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well McConahay 1D-34H-H266
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5088.0ft (Original Well Elev)
Reference Site:	S34-T2N-R66W (McConahay)	MD Reference:	WELL @ 5088.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	McConahay 1D-34H-H266	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 5088.0ft (Original Well Elev)
 Offset Depths are relative to Offset Datum
 Central Meridian is -105.500000 °

Coordinates are relative to: McConahay 1D-34H-H266
 Coordinate System is US State Plane 1983, Colorado Northern Zone
 Grid Convergence at Surface is: 0.48°

