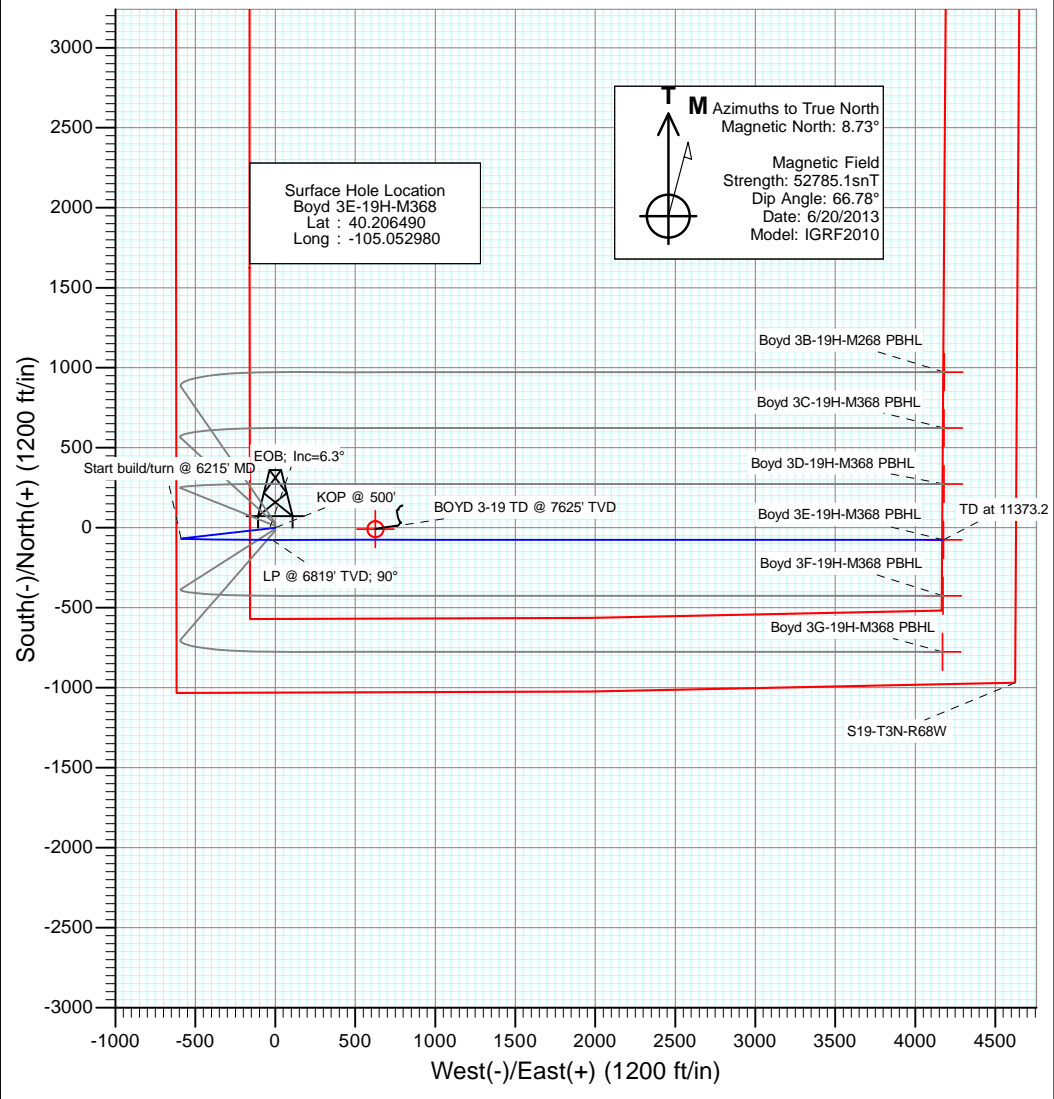
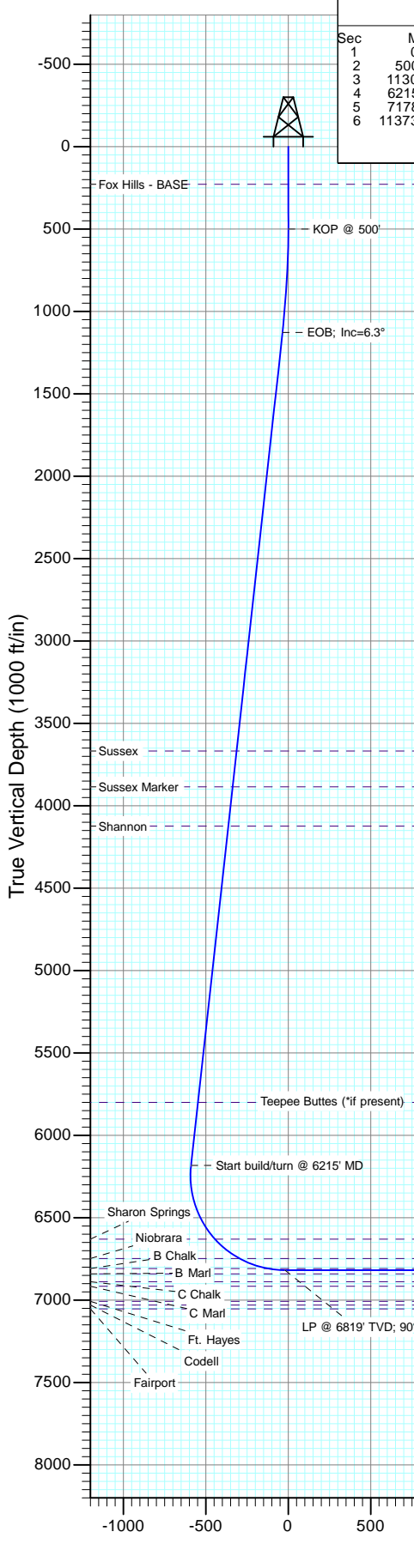




Project: DJ Wattenberg  
 Site: S19-T3N-R68W (Boyd)  
 Well: Boyd 3E-19H-M368  
 Wellbore: Hz  
 Design: Plan #1



SECTION DETAILS												
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target	Annotation	
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0		KOP @ 500'	
2	500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.0		EOB; Inc=6.3°	
3	1130.2	6.30	263.41	1128.9	-4.0	-34.4	1.00	263.41	-34.4		Start build/turn @ 6215' MD	
4	6215.6	6.30	263.41	6183.6	-68.1	-588.9	0.00	0.00	-588.9		LP @ 6819' TVD; 90°	
5	7178.2	90.00	90.00	6819.0	-76.1	-19.4	10.00	-173.37	-19.4		TD at 11373.2	
6	11373.2	90.00	90.00	6819.0	-76.1	4175.6	0.00	0.00	4175.6	Boyd 3E-19H-M368 PBHL		



DESIGN TARGET DETAILS						
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Boyd 3E-19H-M368 PBHL	-76.1	4175.6	1318328.90	3129036.75	40.206280	-105.038030

Plan #1  
 Boyd 3E-19H-M368  
 13xxx; LR  
 WELL @ 5029.0ft (Original Well Elev)  
 Ground Elevation @ 5004.0  
 North American Datum 1983  
 Well Boyd 3E-19H-M368, True North

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Boyd 3E-19H-M368
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	WELL @ 5029.0ft (Original Well Elev)
<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	WELL @ 5029.0ft (Original Well Elev)
<b>Site:</b>	S19-T3N-R68W (Boyd)	<b>North Reference:</b>	True
<b>Well:</b>	Boyd 3E-19H-M368	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	Plan #1		

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

<b>Site</b>	S19-T3N-R68W (Boyd)				
<b>Site Position:</b>		<b>Northing:</b>	1,318,413.14 ft	<b>Latitude:</b>	40.206570
<b>From:</b>	Lat/Long	<b>Easting:</b>	3,124,860.64 ft	<b>Longitude:</b>	-105.052980
<b>Position Uncertainty:</b>	0.0 ft	<b>Slot Radius:</b>	13.200 in	<b>Grid Convergence:</b>	0.29 °

<b>Well</b>	Boyd 3E-19H-M368					
<b>Well Position</b>	<b>+N/-S</b>	0.0 ft	<b>Northing:</b>	1,318,383.99 ft	<b>Latitude:</b>	40.206490
	<b>+E/-W</b>	0.0 ft	<b>Easting:</b>	3,124,860.79 ft	<b>Longitude:</b>	-105.052980
<b>Position Uncertainty</b>		0.0 ft	<b>Wellhead Elevation:</b>	ft	<b>Ground Level:</b>	5,004.0 ft

<b>Wellbore</b>	Hz				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination</b>	<b>Dip Angle</b>	<b>Field Strength</b>
	IGRF2010	6/20/2013	(°) 8.73	(°) 66.78	(nT) 52,785

<b>Design</b>	Plan #1			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD)</b>	<b>+N/-S</b>	<b>+E/-W</b>	<b>Direction</b>
	(ft)	(ft)	(ft)	(°)
	0.0	0.0	0.0	90.00

<b>Plan Sections</b>										
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	
500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,130.2	6.30	263.41	1,128.9	-4.0	-34.4	1.00	1.00	0.00	263.41	
6,215.6	6.30	263.41	6,183.6	-68.1	-588.9	0.00	0.00	0.00	0.00	
7,178.2	90.00	90.00	6,819.0	-76.1	-19.4	10.00	8.70	-18.01	-173.37	
11,373.2	90.00	90.00	6,819.0	-76.1	4,175.6	0.00	0.00	0.00	0.00	Boyd 3E-19H-M368 P

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Boyd 3E-19H-M368
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	WELL @ 5029.0ft (Original Well Elev)
<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	WELL @ 5029.0ft (Original Well Elev)
<b>Site:</b>	S19-T3N-R68W (Boyd)	<b>North Reference:</b>	True
<b>Well:</b>	Boyd 3E-19H-M368	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	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	
229.0	0.00	0.00	229.0	0.0	0.0	0.0	0.00	0.00	Fox Hills - BASE
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	KOP @ 500'
600.0	1.00	263.41	600.0	-0.1	-0.9	-0.9	1.00	1.00	
700.0	2.00	263.41	700.0	-0.4	-3.5	-3.5	1.00	1.00	
800.0	3.00	263.41	799.9	-0.9	-7.8	-7.8	1.00	1.00	
900.0	4.00	263.41	899.7	-1.6	-13.9	-13.9	1.00	1.00	
1,000.0	5.00	263.41	999.4	-2.5	-21.7	-21.7	1.00	1.00	
1,100.0	6.00	263.41	1,098.9	-3.6	-31.2	-31.2	1.00	1.00	
1,130.2	6.30	263.41	1,128.9	-4.0	-34.4	-34.4	1.00	1.00	EOB; Inc=6.3°
1,200.0	6.30	263.41	1,198.3	-4.9	-42.0	-42.0	0.00	0.00	
1,300.0	6.30	263.41	1,297.7	-6.1	-52.9	-52.9	0.00	0.00	
1,400.0	6.30	263.41	1,397.1	-7.4	-63.8	-63.8	0.00	0.00	
1,500.0	6.30	263.41	1,496.5	-8.6	-74.7	-74.7	0.00	0.00	
1,600.0	6.30	263.41	1,595.9	-9.9	-85.6	-85.6	0.00	0.00	
1,700.0	6.30	263.41	1,695.3	-11.2	-96.5	-96.5	0.00	0.00	
1,800.0	6.30	263.41	1,794.7	-12.4	-107.4	-107.4	0.00	0.00	
1,900.0	6.30	263.41	1,894.1	-13.7	-118.3	-118.3	0.00	0.00	
2,000.0	6.30	263.41	1,993.5	-14.9	-129.2	-129.2	0.00	0.00	
2,100.0	6.30	263.41	2,092.9	-16.2	-140.1	-140.1	0.00	0.00	
2,200.0	6.30	263.41	2,192.3	-17.5	-151.0	-151.0	0.00	0.00	
2,300.0	6.30	263.41	2,291.7	-18.7	-161.9	-161.9	0.00	0.00	
2,400.0	6.30	263.41	2,391.1	-20.0	-172.9	-172.9	0.00	0.00	
2,500.0	6.30	263.41	2,490.5	-21.2	-183.8	-183.8	0.00	0.00	
2,600.0	6.30	263.41	2,589.8	-22.5	-194.7	-194.7	0.00	0.00	
2,700.0	6.30	263.41	2,689.2	-23.8	-205.6	-205.6	0.00	0.00	
2,800.0	6.30	263.41	2,788.6	-25.0	-216.5	-216.5	0.00	0.00	
2,900.0	6.30	263.41	2,888.0	-26.3	-227.4	-227.4	0.00	0.00	
3,000.0	6.30	263.41	2,987.4	-27.5	-238.3	-238.3	0.00	0.00	
3,100.0	6.30	263.41	3,086.8	-28.8	-249.2	-249.2	0.00	0.00	
3,200.0	6.30	263.41	3,186.2	-30.1	-260.1	-260.1	0.00	0.00	
3,300.0	6.30	263.41	3,285.6	-31.3	-271.0	-271.0	0.00	0.00	
3,400.0	6.30	263.41	3,385.0	-32.6	-281.9	-281.9	0.00	0.00	
3,500.0	6.30	263.41	3,484.4	-33.8	-292.8	-292.8	0.00	0.00	
3,600.0	6.30	263.41	3,583.8	-35.1	-303.7	-303.7	0.00	0.00	
3,684.7	6.30	263.41	3,668.0	-36.2	-312.9	-312.9	0.00	0.00	Sussex
3,700.0	6.30	263.41	3,683.2	-36.4	-314.6	-314.6	0.00	0.00	
3,800.0	6.30	263.41	3,782.6	-37.6	-325.5	-325.5	0.00	0.00	
3,900.0	6.30	263.41	3,882.0	-38.9	-336.4	-336.4	0.00	0.00	
3,903.0	6.30	263.41	3,885.0	-38.9	-336.7	-336.7	0.00	0.00	Sussex Marker
4,000.0	6.30	263.41	3,981.4	-40.2	-347.3	-347.3	0.00	0.00	
4,100.0	6.30	263.41	4,080.8	-41.4	-358.2	-358.2	0.00	0.00	
4,143.5	6.30	263.41	4,124.0	-42.0	-363.0	-363.0	0.00	0.00	Shannon
4,200.0	6.30	263.41	4,180.2	-42.7	-369.1	-369.1	0.00	0.00	
4,300.0	6.30	263.41	4,279.6	-43.9	-380.0	-380.0	0.00	0.00	
4,400.0	6.30	263.41	4,379.0	-45.2	-390.9	-390.9	0.00	0.00	
4,500.0	6.30	263.41	4,478.4	-46.5	-401.8	-401.8	0.00	0.00	
4,600.0	6.30	263.41	4,577.8	-47.7	-412.7	-412.7	0.00	0.00	

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Boyd 3E-19H-M368
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	WELL @ 5029.0ft (Original Well Elev)
<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	WELL @ 5029.0ft (Original Well Elev)
<b>Site:</b>	S19-T3N-R68W (Boyd)	<b>North Reference:</b>	True
<b>Well:</b>	Boyd 3E-19H-M368	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	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
4,700.0	6.30	263.41	4,677.2	-49.0	-423.6	-423.6	0.00	0.00	
4,800.0	6.30	263.41	4,776.6	-50.2	-434.5	-434.5	0.00	0.00	
4,900.0	6.30	263.41	4,876.0	-51.5	-445.5	-445.5	0.00	0.00	
5,000.0	6.30	263.41	4,975.3	-52.8	-456.4	-456.4	0.00	0.00	
5,100.0	6.30	263.41	5,074.7	-54.0	-467.3	-467.3	0.00	0.00	
5,200.0	6.30	263.41	5,174.1	-55.3	-478.2	-478.2	0.00	0.00	
5,300.0	6.30	263.41	5,273.5	-56.5	-489.1	-489.1	0.00	0.00	
5,400.0	6.30	263.41	5,372.9	-57.8	-500.0	-500.0	0.00	0.00	
5,500.0	6.30	263.41	5,472.3	-59.1	-510.9	-510.9	0.00	0.00	
5,600.0	6.30	263.41	5,571.7	-60.3	-521.8	-521.8	0.00	0.00	
5,700.0	6.30	263.41	5,671.1	-61.6	-532.7	-532.7	0.00	0.00	
5,800.0	6.30	263.41	5,770.5	-62.8	-543.6	-543.6	0.00	0.00	
5,829.7	6.30	263.41	5,800.0	-63.2	-546.8	-546.8	0.00	0.00	Teepee Buttes (*if present)
5,900.0	6.30	263.41	5,869.9	-64.1	-554.5	-554.5	0.00	0.00	
6,000.0	6.30	263.41	5,969.3	-65.4	-565.4	-565.4	0.00	0.00	
6,100.0	6.30	263.41	6,068.7	-66.6	-576.3	-576.3	0.00	0.00	
6,200.0	6.30	263.41	6,168.1	-67.9	-587.2	-587.2	0.00	0.00	
6,215.6	6.30	263.41	6,183.6	-68.1	-588.9	-588.9	0.00	0.00	Start build/turn @ 6215' MD
6,300.0	2.30	108.44	6,267.9	-69.1	-591.9	-591.9	10.00	-4.75	
6,400.0	12.20	93.36	6,366.9	-70.4	-579.4	-579.4	10.00	9.90	
6,500.0	22.19	91.78	6,462.4	-71.6	-549.9	-549.9	10.00	9.99	
6,600.0	32.19	91.15	6,551.2	-72.7	-504.3	-504.3	10.00	10.00	
6,699.0	42.08	90.80	6,630.0	-73.7	-444.7	-444.7	10.00	10.00	Sharon Springs
6,700.0	42.18	90.80	6,630.8	-73.8	-444.0	-444.0	10.00	10.00	
6,800.0	52.18	90.56	6,698.6	-74.6	-370.7	-370.7	10.00	10.00	
6,889.9	61.17	90.40	6,748.0	-75.2	-295.6	-295.6	10.00	10.00	Niobrara
6,900.0	62.18	90.38	6,752.8	-75.3	-286.8	-286.8	10.00	10.00	
7,000.0	72.18	90.23	6,791.5	-75.8	-194.7	-194.7	10.00	10.00	
7,071.0	79.28	90.14	6,809.0	-76.0	-125.9	-125.9	10.00	10.00	B Chalk
7,100.0	82.18	90.10	6,813.7	-76.1	-97.3	-97.3	10.00	10.00	
7,178.2	90.00	90.00	6,819.0	-76.1	-19.4	-19.4	10.00	10.00	LP @ 6819' TVD; 90°
7,200.0	90.00	90.00	6,819.0	-76.1	2.4	2.4	0.00	0.00	
7,300.0	90.00	90.00	6,819.0	-76.1	102.4	102.4	0.00	0.00	
7,400.0	90.00	90.00	6,819.0	-76.1	202.4	202.4	0.00	0.00	
7,500.0	90.00	90.00	6,819.0	-76.1	302.4	302.4	0.00	0.00	
7,600.0	90.00	90.00	6,819.0	-76.1	402.4	402.4	0.00	0.00	
7,700.0	90.00	90.00	6,819.0	-76.1	502.4	502.4	0.00	0.00	
7,800.0	90.00	90.00	6,819.0	-76.1	602.4	602.4	0.00	0.00	
7,900.0	90.00	90.00	6,819.0	-76.1	702.4	702.4	0.00	0.00	
8,000.0	90.00	90.00	6,819.0	-76.1	802.4	802.4	0.00	0.00	
8,100.0	90.00	90.00	6,819.0	-76.1	902.4	902.4	0.00	0.00	
8,200.0	90.00	90.00	6,819.0	-76.1	1,002.4	1,002.4	0.00	0.00	
8,300.0	90.00	90.00	6,819.0	-76.1	1,102.4	1,102.4	0.00	0.00	
8,400.0	90.00	90.00	6,819.0	-76.1	1,202.4	1,202.4	0.00	0.00	
8,500.0	90.00	90.00	6,819.0	-76.1	1,302.4	1,302.4	0.00	0.00	
8,600.0	90.00	90.00	6,819.0	-76.1	1,402.4	1,402.4	0.00	0.00	
8,700.0	90.00	90.00	6,819.0	-76.1	1,502.4	1,502.4	0.00	0.00	
8,800.0	90.00	90.00	6,819.0	-76.1	1,602.4	1,602.4	0.00	0.00	
8,900.0	90.00	90.00	6,819.0	-76.1	1,702.4	1,702.4	0.00	0.00	
9,000.0	90.00	90.00	6,819.0	-76.1	1,802.4	1,802.4	0.00	0.00	
9,100.0	90.00	90.00	6,819.0	-76.1	1,902.4	1,902.4	0.00	0.00	
9,200.0	90.00	90.00	6,819.0	-76.1	2,002.4	2,002.4	0.00	0.00	

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Boyd 3E-19H-M368
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	WELL @ 5029.0ft (Original Well Elev)
<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	WELL @ 5029.0ft (Original Well Elev)
<b>Site:</b>	S19-T3N-R68W (Boyd)	<b>North Reference:</b>	True
<b>Well:</b>	Boyd 3E-19H-M368	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	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	90.00	6,819.0	-76.1	2,102.4	2,102.4	0.00	0.00	
9,400.0	90.00	90.00	6,819.0	-76.1	2,202.4	2,202.4	0.00	0.00	
9,500.0	90.00	90.00	6,819.0	-76.1	2,302.4	2,302.4	0.00	0.00	
9,600.0	90.00	90.00	6,819.0	-76.1	2,402.4	2,402.4	0.00	0.00	
9,700.0	90.00	90.00	6,819.0	-76.1	2,502.4	2,502.4	0.00	0.00	
9,800.0	90.00	90.00	6,819.0	-76.1	2,602.4	2,602.4	0.00	0.00	
9,900.0	90.00	90.00	6,819.0	-76.1	2,702.4	2,702.4	0.00	0.00	
10,000.0	90.00	90.00	6,819.0	-76.1	2,802.4	2,802.4	0.00	0.00	
10,100.0	90.00	90.00	6,819.0	-76.1	2,902.4	2,902.4	0.00	0.00	
10,200.0	90.00	90.00	6,819.0	-76.1	3,002.4	3,002.4	0.00	0.00	
10,300.0	90.00	90.00	6,819.0	-76.1	3,102.4	3,102.4	0.00	0.00	
10,400.0	90.00	90.00	6,819.0	-76.1	3,202.4	3,202.4	0.00	0.00	
10,500.0	90.00	90.00	6,819.0	-76.1	3,302.4	3,302.4	0.00	0.00	
10,600.0	90.00	90.00	6,819.0	-76.1	3,402.4	3,402.4	0.00	0.00	
10,700.0	90.00	90.00	6,819.0	-76.1	3,502.4	3,502.4	0.00	0.00	
10,800.0	90.00	90.00	6,819.0	-76.1	3,602.4	3,602.4	0.00	0.00	
10,900.0	90.00	90.00	6,819.0	-76.1	3,702.4	3,702.4	0.00	0.00	
11,000.0	90.00	90.00	6,819.0	-76.1	3,802.4	3,802.4	0.00	0.00	
11,100.0	90.00	90.00	6,819.0	-76.1	3,902.4	3,902.4	0.00	0.00	
11,200.0	90.00	90.00	6,819.0	-76.1	4,002.4	4,002.4	0.00	0.00	
11,300.0	90.00	90.00	6,819.0	-76.1	4,102.4	4,102.4	0.00	0.00	
11,373.2	90.00	90.00	6,819.0	-76.1	4,175.6	4,175.6	0.00	0.00	TD at 11373.2

Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
Boyd 3E-19H-M368 PBT - hit/miss target - Shape - Point	0.00	0.00	6,819.0	-76.1	4,175.6	1,318,328.90	3,129,036.75	40.206280	-105.038030

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
229.0	229.0	Fox Hills - BASE				
3,684.7	3,668.0	Sussex				
3,903.0	3,885.0	Sussex Marker				
4,143.5	4,124.0	Shannon				
5,829.7	5,800.0	Teepee Buttes (*if present)				
6,699.0	6,630.0	Sharon Springs				
6,889.9	6,748.0	Niobrara				
7,071.0	6,809.0	B Chalk				

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Boyd 3E-19H-M368
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	WELL @ 5029.0ft (Original Well Elev)
<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	WELL @ 5029.0ft (Original Well Elev)
<b>Site:</b>	S19-T3N-R68W (Boyd)	<b>North Reference:</b>	True
<b>Well:</b>	Boyd 3E-19H-M368	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	Plan #1		

### Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
500.0	500.0	0.0	0.0	KOP @ 500'
1,130.2	1,128.9	-4.0	-34.4	EOB; Inc=6.3°
6,215.6	6,183.6	-68.1	-588.9	Start build/turn @ 6215' MD
7,178.2	6,819.0	-76.1	-19.4	LP @ 6819' TVD; 90°
11,373.2	6,819.0	-76.1	4,175.6	TD at 11373.2

# **EnCana Oil & Gas (USA) Inc**

**DJ Wattenberg**

**S19-T3N-R68W (Boyd)**

**Boyd 3E-19H-M368**

**Hz**

**Plan #1**

## **Anticollision Report**

**20 June, 2013**

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Boyd 3E-19H-M368
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5029.0ft (Original Well Elev)
<b>Reference Site:</b>	S19-T3N-R68W (Boyd)	<b>MD Reference:</b>	WELL @ 5029.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Boyd 3E-19H-M368	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

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

<b>Survey Tool Program</b>	<b>Date</b>	6/20/2013		
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
0.0	11,373.2	Plan #1 (Hz)	Geolink MWD	Geolink MWD

Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
<b>Summary</b>						
<b>Offset Well - Wellbore - Design</b>						
S19-T3N-R68W (Boyd)						
BOYD 3-19 (EXISTING) - ENCANA WELL - SURVEYS	7,916.1	6,829.6	84.2	44.6	2.129	CC, ES, SF
Boyd 3B-19H-M368 - Hz - Plan #1	200.0	200.0	29.1	28.5	47.714	CC, ES
Boyd 3B-19H-M368 - Hz - Plan #1	700.0	696.8	48.2	45.8	20.353	SF
Boyd 3C-19H-M368 - Hz - Plan #1	300.0	300.0	21.9	20.9	22.769	CC, ES
Boyd 3C-19H-M368 - Hz - Plan #1	700.0	698.4	32.4	30.0	13.652	SF
Boyd 3D-19H-M368 - Hz - Plan #1	400.0	400.0	10.9	9.6	8.349	CC, ES
Boyd 3D-19H-M368 - Hz - Plan #1	11,373.2	11,599.9	413.7	225.7	2.201	SF
Boyd 3F-19H-M368 - Hz - Plan #1	400.0	400.0	7.3	6.0	5.566	CC, ES
Boyd 3F-19H-M368 - Hz - Plan #1	11,373.2	11,602.7	413.7	225.8	2.202	SF
Boyd 3G-19H-M368 - Hz - Plan #1	300.0	300.0	18.2	17.3	18.974	CC, ES
Boyd 3G-19H-M368 - Hz - Plan #1	600.0	599.0	24.4	22.4	12.139	SF

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Boyd 3E-19H-M368
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5029.0ft (Original Well Elev)
<b>Reference Site:</b>	S19-T3N-R68W (Boyd)	<b>MD Reference:</b>	WELL @ 5029.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Boyd 3E-19H-M368	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S19-T3N-R68W (Boyd) - BOYD 3-19 (EXISTING) - ENCANA WELL - SURVEYS													Offset Well Error:	0.0 ft
Survey Program: 75-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance							
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	Warning	
7,500.0	6,819.0	6,899.4	6,892.8	19.1	12.4	-130.64	6.3	707.2	419.1	393.2	25.96	16.143		
7,600.0	6,819.0	6,881.8	6,875.4	21.0	12.3	-122.81	6.8	710.1	323.1	293.9	29.25	11.047		
7,700.0	6,819.0	6,864.8	6,858.6	23.0	12.3	-113.72	7.2	712.9	229.3	196.5	32.84	6.984		
7,800.0	6,819.0	6,848.2	6,842.3	25.1	12.3	-103.61	7.6	715.6	142.2	105.9	36.31	3.917		
7,900.0	6,819.0	6,832.1	6,826.4	27.2	12.2	-92.99	7.9	718.1	85.7	46.5	39.16	2.187		
7,916.1	6,819.0	6,829.6	6,823.9	27.6	12.2	-91.28	8.0	718.5	84.2	44.6	39.54	2.129	CC, ES, SF	
8,000.0	6,819.0	6,816.7	6,811.2	29.4	12.2	-82.69	8.3	720.5	118.1	77.1	41.06	2.877		
8,100.0	6,819.0	6,802.7	6,797.3	31.6	12.2	-73.75	8.5	722.6	200.3	158.2	42.06	4.762		
8,200.0	6,819.0	6,790.0	6,784.7	33.9	12.1	-66.30	8.7	724.4	293.1	250.6	42.49	6.898		
8,300.0	6,819.0	6,778.4	6,773.2	36.2	12.1	-60.17	8.9	725.9	389.0	346.4	42.61	9.130		
8,400.0	6,819.0	6,767.7	6,762.7	38.5	12.1	-55.15	9.0	727.3	486.3	443.7	42.60	11.416		

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Boyd 3E-19H-M368
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5029.0ft (Original Well Elev)
<b>Reference Site:</b>	S19-T3N-R68W (Boyd)	<b>MD Reference:</b>	WELL @ 5029.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Boyd 3E-19H-M368	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S19-T3N-R68W (Boyd) - Boyd 3E-19H-M368 - 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 Uncertainty Axis	Separation Factor	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)				
0.0	0.0	0.0	0.0	0.0	0.0	0.00	29.1	0.0	29.1					
100.0	100.0	100.0	100.0	0.1	0.1	0.00	29.1	0.0	29.1	28.9	0.26	111.333		
200.0	200.0	200.0	200.0	0.3	0.3	0.00	29.1	0.0	29.1	28.5	0.61	47.714	CC, ES	
300.0	300.0	299.6	299.6	0.5	0.5	-0.94	29.9	-0.5	29.9	28.9	0.96	31.118		
400.0	400.0	399.1	399.0	0.7	0.7	-3.52	32.0	-2.0	32.1	30.8	1.31	24.452		
500.0	500.0	498.5	498.3	0.8	0.8	-7.10	35.5	-4.4	35.9	34.2	1.67	21.481		
600.0	600.0	597.7	597.4	1.0	1.0	86.77	40.5	-7.9	41.3	39.3	2.01	20.516		
700.0	700.0	696.8	696.1	1.2	1.3	85.91	46.8	-12.3	48.2	45.8	2.37	20.353	SF	
800.0	799.9	795.6	794.5	1.4	1.5	86.29	54.6	-17.6	56.6	53.9	2.73	20.692		
900.0	899.7	894.1	892.4	1.6	1.7	87.42	63.7	-23.9	66.4	63.3	3.12	21.318		
1,000.0	999.4	992.4	989.8	1.8	2.0	88.93	74.1	-31.1	77.8	74.3	3.52	22.103		
1,100.0	1,098.9	1,090.2	1,086.7	2.0	2.3	90.59	85.9	-39.3	90.7	86.7	3.95	22.962		
1,200.0	1,198.3	1,187.7	1,182.8	2.2	2.6	92.15	99.0	-48.3	105.2	100.8	4.40	23.887		
1,300.0	1,297.7	1,285.8	1,279.3	2.5	2.9	93.05	113.3	-58.2	120.9	116.0	4.87	24.839		
1,400.0	1,397.1	1,384.5	1,376.5	2.7	3.3	93.72	127.7	-68.3	136.8	131.4	5.34	25.607		
1,500.0	1,496.5	1,483.2	1,473.6	2.9	3.6	94.25	142.2	-78.3	152.7	146.8	5.82	26.224		
1,600.0	1,595.9	1,581.9	1,570.7	3.2	4.0	94.68	156.7	-88.3	168.5	162.2	6.31	26.729		
1,700.0	1,695.3	1,680.7	1,667.9	3.4	4.3	95.04	171.2	-98.4	184.5	177.7	6.79	27.147		
1,800.0	1,794.7	1,779.4	1,765.0	3.7	4.6	95.34	185.7	-108.4	200.4	193.1	7.29	27.499		
1,900.0	1,894.1	1,878.1	1,862.1	3.9	5.0	95.59	200.2	-118.4	216.3	208.5	7.78	27.798		
2,000.0	1,993.5	1,976.8	1,959.3	4.2	5.3	95.81	214.7	-128.5	232.2	223.9	8.28	28.055		
2,100.0	2,092.9	2,075.5	2,056.4	4.4	5.7	96.00	229.2	-138.5	248.1	239.4	8.77	28.278		
2,200.0	2,192.3	2,174.3	2,153.5	4.7	6.0	96.17	243.7	-148.6	264.0	254.8	9.27	28.473		
2,300.0	2,291.7	2,273.0	2,250.7	4.9	6.4	96.32	258.2	-158.6	280.0	270.2	9.77	28.644		
2,400.0	2,391.1	2,371.7	2,347.8	5.2	6.7	96.45	272.7	-168.6	295.9	285.6	10.28	28.797		
2,500.0	2,490.5	2,470.4	2,444.9	5.5	7.1	96.57	287.2	-178.7	311.8	301.1	10.78	28.933		
2,600.0	2,589.8	2,569.1	2,542.1	5.7	7.4	96.68	301.7	-188.7	327.8	316.5	11.28	29.055		
2,700.0	2,689.2	2,667.9	2,639.2	6.0	7.8	96.78	316.2	-198.7	343.7	331.9	11.78	29.165		
2,800.0	2,788.6	2,766.6	2,736.3	6.2	8.1	96.87	330.7	-208.8	359.6	347.3	12.29	29.264		
2,900.0	2,888.0	2,865.3	2,833.5	6.5	8.5	96.95	345.2	-218.8	375.6	362.8	12.79	29.355		
3,000.0	2,987.4	2,964.0	2,930.6	6.7	8.8	97.03	359.7	-228.8	391.5	378.2	13.30	29.438		
3,100.0	3,086.8	3,062.8	3,027.7	7.0	9.2	97.10	374.2	-238.9	407.4	393.6	13.80	29.514		
3,200.0	3,186.2	3,161.5	3,124.9	7.3	9.5	97.16	388.7	-248.9	423.4	409.1	14.31	29.584		
3,300.0	3,285.6	3,260.2	3,222.0	7.5	9.9	97.22	403.2	-259.0	439.3	424.5	14.82	29.648		
3,400.0	3,385.0	3,358.9	3,319.1	7.8	10.3	97.27	417.7	-269.0	455.2	439.9	15.32	29.708		
3,500.0	3,484.4	3,457.6	3,416.3	8.0	10.6	97.33	432.2	-279.0	471.2	455.4	15.83	29.763		
3,600.0	3,583.8	3,556.4	3,513.4	8.3	11.0	97.37	446.7	-289.1	487.1	470.8	16.34	29.815		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Boyd 3E-19H-M368
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5029.0ft (Original Well Elev)
<b>Reference Site:</b>	S19-T3N-R68W (Boyd)	<b>MD Reference:</b>	WELL @ 5029.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Boyd 3E-19H-M368	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error:		0.0 ft
Reference															
Offset				Semi Major Axis			Distance								
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	Warning		
0.0	0.0	0.0	0.0	0.0	0.0	0.00	21.9	0.0	21.9						
100.0	100.0	100.0	100.0	0.1	0.1	0.00	21.9	0.0	21.9	21.6	0.26	83.488			
200.0	200.0	200.0	200.0	0.3	0.3	0.00	21.9	0.0	21.9	21.2	0.61	35.780			
300.0	300.0	300.0	300.0	0.5	0.5	0.00	21.9	0.0	21.9	20.9	0.96	22.769	CC, ES		
400.0	400.0	399.7	399.7	0.7	0.7	-1.64	22.4	-0.6	22.5	21.1	1.31	17.155			
500.0	500.0	499.4	499.4	0.8	0.8	-6.05	24.2	-2.6	24.3	22.7	1.66	14.668			
600.0	600.0	599.0	598.8	1.0	1.0	86.35	27.1	-5.8	27.7	25.7	2.01	13.755			
700.0	700.0	698.4	698.1	1.2	1.2	84.40	31.2	-10.2	32.4	30.0	2.37	13.652	SF		
800.0	799.9	797.8	797.1	1.4	1.4	84.05	36.4	-16.0	38.3	35.6	2.74	13.985			
900.0	899.7	896.9	895.8	1.6	1.6	84.70	42.8	-23.0	45.5	42.4	3.12	14.559			
1,000.0	999.4	995.9	994.2	1.8	1.9	85.90	50.3	-31.2	53.9	50.4	3.53	15.266			
1,100.0	1,098.9	1,094.6	1,092.0	2.0	2.2	87.35	58.9	-40.6	63.6	59.6	3.97	16.035			
1,200.0	1,198.3	1,193.7	1,190.1	2.2	2.4	88.79	68.5	-51.2	74.4	70.0	4.43	16.809			
1,300.0	1,297.7	1,293.1	1,288.4	2.5	2.7	89.89	78.2	-61.8	85.3	80.4	4.90	17.421			
1,400.0	1,397.1	1,392.4	1,386.8	2.7	3.0	90.75	87.9	-72.4	96.2	90.8	5.37	17.903			
1,500.0	1,496.5	1,491.8	1,485.1	2.9	3.3	91.43	97.6	-83.0	107.1	101.3	5.86	18.290			
1,600.0	1,595.9	1,591.2	1,583.5	3.2	3.6	91.98	107.3	-93.7	118.1	111.8	6.35	18.605			
1,700.0	1,695.3	1,690.6	1,681.8	3.4	3.9	92.44	117.0	-104.3	129.1	122.2	6.84	18.866			
1,800.0	1,794.7	1,790.0	1,780.2	3.7	4.2	92.83	126.7	-114.9	140.0	132.7	7.34	19.086			
1,900.0	1,894.1	1,889.4	1,878.5	3.9	4.5	93.16	136.4	-125.6	151.0	143.2	7.84	19.272			
2,000.0	1,993.5	1,988.8	1,976.9	4.2	4.8	93.45	146.0	-136.2	162.0	153.7	8.34	19.432			
2,100.0	2,092.9	2,088.2	2,075.2	4.4	5.1	93.70	155.7	-146.8	173.0	164.1	8.84	19.570			
2,200.0	2,192.3	2,187.6	2,173.5	4.7	5.4	93.92	165.4	-157.5	184.0	174.6	9.34	19.691			
2,300.0	2,291.7	2,287.0	2,271.9	4.9	5.7	94.11	175.1	-168.1	194.9	185.1	9.85	19.798			
2,400.0	2,391.1	2,386.4	2,370.2	5.2	6.0	94.29	184.8	-178.7	205.9	195.6	10.35	19.892			
2,500.0	2,490.5	2,485.8	2,468.6	5.5	6.3	94.44	194.5	-189.3	216.9	206.1	10.86	19.977			
2,600.0	2,589.8	2,585.2	2,566.9	5.7	6.6	94.59	204.2	-200.0	227.9	216.6	11.37	20.052			
2,700.0	2,689.2	2,684.5	2,665.3	6.0	6.9	94.71	213.9	-210.6	238.9	227.0	11.87	20.120			
2,800.0	2,788.6	2,783.9	2,763.6	6.2	7.2	94.83	223.6	-221.2	249.9	237.5	12.38	20.182			
2,900.0	2,888.0	2,883.3	2,862.0	6.5	7.5	94.94	233.3	-231.9	260.9	248.0	12.89	20.238			
3,000.0	2,987.4	2,982.7	2,960.3	6.7	7.8	95.04	243.0	-242.5	271.9	258.5	13.40	20.289			
3,100.0	3,086.8	3,082.1	3,058.7	7.0	8.1	95.13	252.7	-253.1	282.9	269.0	13.91	20.336			
3,200.0	3,186.2	3,181.5	3,157.0	7.3	8.4	95.21	262.4	-263.8	293.9	279.5	14.42	20.379			
3,300.0	3,285.6	3,280.9	3,255.4	7.5	8.7	95.29	272.1	-274.4	304.9	290.0	14.93	20.419			
3,400.0	3,385.0	3,380.3	3,353.7	7.8	9.0	95.36	281.7	-285.0	315.9	300.5	15.44	20.456			
3,500.0	3,484.4	3,479.7	3,452.0	8.0	9.3	95.43	291.4	-295.6	326.9	311.0	15.95	20.490			
3,600.0	3,583.8	3,579.1	3,550.4	8.3	9.7	95.50	301.1	-306.3	337.9	321.4	16.47	20.522			
3,700.0	3,683.2	3,678.5	3,648.7	8.5	10.0	95.56	310.8	-316.9	348.9	331.9	16.98	20.551			
3,800.0	3,782.6	3,777.9	3,747.1	8.8	10.3	95.61	320.5	-327.5	359.9	342.4	17.49	20.579			
3,900.0	3,882.0	3,877.3	3,845.4	9.1	10.6	95.66	330.2	-338.2	370.9	352.9	18.00	20.605			
4,000.0	3,981.4	3,976.6	3,943.8	9.3	10.9	95.71	339.9	-348.8	381.9	363.4	18.51	20.629			
4,100.0	4,080.8	4,076.0	4,042.1	9.6	11.2	95.76	349.6	-359.4	392.9	373.9	19.03	20.652			
4,200.0	4,180.2	4,175.4	4,140.5	9.8	11.5	95.80	359.3	-370.1	403.9	384.4	19.54	20.674			
4,300.0	4,279.6	4,274.8	4,238.8	10.1	11.8	95.85	369.0	-380.7	414.9	394.9	20.05	20.694			
4,400.0	4,379.0	4,374.2	4,337.2	10.4	12.1	95.89	378.7	-391.3	425.9	405.4	20.56	20.713			
4,500.0	4,478.4	4,473.6	4,435.5	10.6	12.4	95.92	388.4	-402.0	436.9	415.9	21.08	20.732			
4,600.0	4,577.8	4,573.0	4,533.8	10.9	12.7	95.96	398.1	-412.6	447.9	426.3	21.59	20.749			
4,700.0	4,677.2	4,672.4	4,632.2	11.1	13.0	95.99	407.8	-423.2	458.9	436.8	22.10	20.765			
4,800.0	4,776.6	4,771.8	4,730.5	11.4	13.3	96.03	417.4	-433.8	469.9	447.3	22.61	20.781			
4,900.0	4,876.0	4,871.2	4,828.9	11.7	13.6	96.06	427.1	-444.5	480.9	457.8	23.13	20.796			
5,000.0	4,975.3	4,970.6	4,927.2	11.9	13.9	96.09	436.8	-455.1	492.0	468.3	23.64	20.810			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Boyd 3E-19H-M368
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5029.0ft (Original Well Elev)
<b>Reference Site:</b>	S19-T3N-R68W (Boyd)	<b>MD Reference:</b>	WELL @ 5029.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Boyd 3E-19H-M368	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error:		0.0 ft
Reference				Offset			Semi Major Axis			Distance			Total Uncertainty Axis	Separation Factor	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)					
0.0	0.0	0.0	0.0	0.0	0.0	0.00	10.9	0.0	10.9						
100.0	100.0	100.0	100.0	0.1	0.1	0.00	10.9	0.0	10.9	10.7	0.26	41.744			
200.0	200.0	200.0	200.0	0.3	0.3	0.00	10.9	0.0	10.9	10.3	0.61	17.890			
300.0	300.0	300.0	300.0	0.5	0.5	0.00	10.9	0.0	10.9	10.0	0.96	11.385			
400.0	400.0	400.0	400.0	0.7	0.7	0.00	10.9	0.0	10.9	9.6	1.31	8.349 CC, ES			
500.0	500.0	499.9	499.9	0.8	0.8	-4.11	11.3	-0.8	11.3	9.6	1.66	6.804			
600.0	600.0	599.8	599.8	1.0	1.0	85.70	12.2	-3.2	12.5	10.5	2.01	6.243			
700.0	700.0	699.6	699.5	1.2	1.2	81.57	13.8	-7.3	14.7	12.4	2.37	6.226			
800.0	799.9	799.4	799.1	1.4	1.4	79.71	16.1	-12.9	17.8	15.0	2.74	6.492			
900.0	899.7	899.1	898.5	1.6	1.6	79.37	19.0	-20.2	21.6	18.4	3.12	6.908			
1,000.0	999.4	998.8	997.7	1.8	1.8	79.91	22.5	-29.0	26.1	22.6	3.53	7.404			
1,100.0	1,098.9	1,098.5	1,096.8	2.0	2.1	81.36	26.6	-39.2	31.3	27.3	3.97	7.891			
1,200.0	1,198.3	1,198.4	1,196.0	2.2	2.3	84.31	30.7	-49.5	36.4	32.0	4.43	8.224			
1,300.0	1,297.7	1,298.2	1,295.3	2.5	2.5	86.64	34.8	-59.8	41.6	36.7	4.90	8.487			
1,400.0	1,397.1	1,398.1	1,394.5	2.7	2.8	88.46	39.0	-70.2	46.8	41.5	5.38	8.701			
1,500.0	1,496.5	1,497.9	1,493.7	2.9	3.0	89.91	43.1	-80.5	52.1	46.2	5.87	8.877			
1,600.0	1,595.9	1,597.8	1,593.0	3.2	3.3	91.09	47.2	-90.8	57.4	51.1	6.36	9.025			
1,700.0	1,695.3	1,697.6	1,692.2	3.4	3.5	92.07	51.3	-101.1	62.7	55.9	6.86	9.150			
1,800.0	1,794.7	1,797.5	1,791.4	3.7	3.8	92.90	55.5	-111.4	68.1	60.7	7.35	9.256			
1,900.0	1,894.1	1,897.3	1,890.7	3.9	4.1	93.61	59.6	-121.8	73.4	65.6	7.85	9.349			
2,000.0	1,993.5	1,997.2	1,989.9	4.2	4.3	94.22	63.7	-132.1	78.8	70.4	8.35	9.429			
2,100.0	2,092.9	2,097.0	2,089.1	4.4	4.6	94.75	67.8	-142.4	84.1	75.3	8.86	9.500			
2,200.0	2,192.3	2,196.9	2,188.4	4.7	4.8	95.22	72.0	-152.7	89.5	80.2	9.36	9.563			
2,300.0	2,291.7	2,296.7	2,287.6	4.9	5.1	95.64	76.1	-163.0	94.9	85.0	9.87	9.619			
2,400.0	2,391.1	2,396.6	2,386.8	5.2	5.3	96.01	80.2	-173.3	100.3	89.9	10.37	9.669			
2,500.0	2,490.5	2,496.5	2,486.1	5.5	5.6	96.35	84.3	-183.7	105.7	94.8	10.88	9.714			
2,600.0	2,589.8	2,596.3	2,585.3	5.7	5.9	96.65	88.5	-194.0	111.1	99.7	11.38	9.755			
2,700.0	2,689.2	2,696.2	2,684.5	6.0	6.1	96.92	92.6	-204.3	116.4	104.6	11.89	9.793			
2,800.0	2,788.6	2,796.0	2,783.8	6.2	6.4	97.17	96.7	-214.6	121.8	109.4	12.40	9.827			
2,900.0	2,888.0	2,895.9	2,883.0	6.5	6.6	97.40	100.8	-224.9	127.2	114.3	12.91	9.858			
3,000.0	2,987.4	2,995.7	2,982.2	6.7	6.9	97.61	104.9	-235.3	132.6	119.2	13.41	9.887			
3,100.0	3,086.8	3,095.6	3,081.5	7.0	7.1	97.80	109.1	-245.6	138.0	124.1	13.92	9.913			
3,200.0	3,186.2	3,195.4	3,180.7	7.3	7.4	97.98	113.2	-255.9	143.4	129.0	14.43	9.938			
3,300.0	3,285.6	3,295.3	3,279.9	7.5	7.7	98.15	117.3	-266.2	148.8	133.9	14.94	9.961			
3,400.0	3,385.0	3,395.1	3,379.2	7.8	7.9	98.30	121.4	-276.5	154.2	138.8	15.45	9.982			
3,500.0	3,484.4	3,495.0	3,478.4	8.0	8.2	98.44	125.6	-286.9	159.6	143.7	15.96	10.002			
3,600.0	3,583.8	3,594.8	3,577.6	8.3	8.4	98.58	129.7	-297.2	165.0	148.6	16.47	10.020			
3,700.0	3,683.2	3,694.7	3,676.9	8.5	8.7	98.70	133.8	-307.5	170.5	153.5	16.98	10.038			
3,800.0	3,782.6	3,794.5	3,776.1	8.8	9.0	98.82	137.9	-317.8	175.9	158.4	17.49	10.054			
3,900.0	3,882.0	3,894.4	3,875.3	9.1	9.2	98.93	142.1	-328.1	181.3	163.3	18.00	10.070			
4,000.0	3,981.4	3,994.2	3,974.6	9.3	9.5	99.04	146.2	-338.4	186.7	168.2	18.51	10.084			
4,100.0	4,080.8	4,094.1	4,073.8	9.6	9.8	99.14	150.3	-348.8	192.1	173.1	19.02	10.098			
4,200.0	4,180.2	4,194.0	4,173.0	9.8	10.0	99.23	154.4	-359.1	197.5	178.0	19.53	10.111			
4,300.0	4,279.6	4,293.8	4,272.3	10.1	10.3	99.32	158.6	-369.4	202.9	182.9	20.04	10.123			
4,400.0	4,379.0	4,393.7	4,371.5	10.4	10.5	99.40	162.7	-379.7	208.3	187.8	20.55	10.135			
4,500.0	4,478.4	4,493.5	4,470.7	10.6	10.8	99.48	166.8	-390.0	213.7	192.7	21.07	10.146			
4,600.0	4,577.8	4,593.4	4,570.0	10.9	11.1	99.56	170.9	-400.4	219.1	197.6	21.58	10.156			
4,700.0	4,677.2	4,693.2	4,669.2	11.1	11.3	99.63	175.1	-410.7	224.5	202.5	22.09	10.166			
4,800.0	4,776.6	4,793.1	4,768.4	11.4	11.6	99.70	179.2	-421.0	230.0	207.4	22.60	10.176			
4,900.0	4,876.0	4,892.9	4,867.7	11.7	11.8	99.76	183.3	-431.3	235.4	212.3	23.11	10.185			
5,000.0	4,975.3	4,992.8	4,966.9	11.9	12.1	99.83	187.4	-441.6	240.8	217.2	23.62	10.194			
5,100.0	5,074.7	5,092.6	5,066.1	12.2	12.4	99.89	191.5	-451.9	246.2	222.1	24.13	10.202			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Boyd 3E-19H-M368
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5029.0ft (Original Well Elev)
<b>Reference Site:</b>	S19-T3N-R68W (Boyd)	<b>MD Reference:</b>	WELL @ 5029.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Boyd 3E-19H-M368	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S19-T3N-R68W (Boyd) - Boyd 3D-19H-M368 - Hz - Plan #1														Offset Site Error:	0.0 ft	
Survey Program: O-Geolink MWD														Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance									
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	Warning			
5,200.0	5,174.1	5,192.5	5,165.4	12.4	12.6	99.94	195.7	-462.3	251.6	227.0	24.64	10.210				
5,300.0	5,273.5	5,292.3	5,264.6	12.7	12.9	100.00	199.8	-472.6	257.0	231.9	25.15	10.218				
5,400.0	5,372.9	5,392.2	5,363.8	12.9	13.1	100.05	203.9	-482.9	262.4	236.8	25.67	10.225				
5,500.0	5,472.3	5,492.0	5,463.1	13.2	13.4	100.10	208.0	-493.2	267.8	241.7	26.18	10.232				
5,600.0	5,571.7	5,591.9	5,562.3	13.5	13.7	100.15	212.2	-503.5	273.3	246.6	26.69	10.239				
5,700.0	5,671.1	5,691.8	5,661.5	13.7	13.9	100.19	216.3	-513.9	278.7	251.5	27.20	10.245				
5,800.0	5,770.5	5,791.6	5,760.8	14.0	14.2	100.24	220.4	-524.2	284.1	256.4	27.71	10.251				
5,900.0	5,869.9	5,891.5	5,860.0	14.2	14.4	100.28	224.5	-534.5	289.5	261.3	28.22	10.257				
6,000.0	5,969.3	5,991.3	5,959.2	14.5	14.7	100.32	228.7	-544.8	294.9	266.2	28.74	10.263				
6,100.0	6,068.7	6,091.2	6,058.5	14.8	15.0	100.36	232.8	-555.1	300.3	271.1	29.25	10.269				
6,200.0	6,168.1	6,191.0	6,157.7	15.0	15.2	100.40	236.9	-565.5	305.7	276.0	29.76	10.274				
6,300.0	6,267.9	6,290.6	6,256.7	15.2	15.5	-105.36	241.0	-575.7	310.8	280.6	30.15	10.309				
6,400.0	6,366.9	6,387.7	6,353.2	15.1	15.7	-93.89	245.0	-585.8	315.8	285.6	30.21	10.452				
6,500.0	6,462.4	6,482.5	6,447.5	14.8	16.0	-97.96	249.0	-594.2	324.0	294.1	29.86	10.849				
6,600.0	6,551.2	6,585.3	6,549.9	14.4	16.0	-103.23	253.2	-588.6	336.7	307.7	29.01	11.607				
6,700.0	6,630.8	6,697.7	6,658.7	13.9	15.8	-108.36	257.7	-561.7	352.9	325.1	27.76	12.711				
6,800.0	6,698.6	6,821.8	6,770.2	13.5	15.4	-113.04	262.4	-508.0	370.8	344.5	26.30	14.101				
6,900.0	6,752.8	6,959.4	6,877.1	13.2	14.7	-117.03	266.8	-422.0	388.3	363.3	24.94	15.569				
7,000.0	6,791.5	7,111.0	6,967.4	13.2	14.1	-120.08	270.6	-300.8	402.7	378.5	24.18	16.652				
7,100.0	6,813.7	7,274.2	7,025.7	13.7	13.9	-121.89	273.0	-148.9	411.6	387.0	24.63	16.713				
7,200.0	6,819.0	7,426.6	7,040.0	14.6	15.1	-122.29	273.6	2.4	413.7	387.3	26.42	15.661				
7,300.0	6,819.0	7,526.6	7,040.0	15.9	16.4	-122.29	273.6	102.4	413.7	385.2	28.52	14.507				
7,400.0	6,819.0	7,626.6	7,040.0	17.4	17.9	-122.29	273.6	202.4	413.7	382.6	31.04	13.327				
7,500.0	6,819.0	7,726.6	7,040.0	19.1	19.6	-122.29	273.6	302.4	413.7	379.8	33.90	12.204				
7,600.0	6,819.0	7,826.6	7,040.0	21.0	21.5	-122.29	273.6	402.4	413.7	376.7	37.01	11.178				
7,700.0	6,819.0	7,926.6	7,040.0	23.0	23.5	-122.29	273.6	502.4	413.7	373.4	40.32	10.261				
7,800.0	6,819.0	8,026.6	7,040.0	25.1	25.5	-122.29	273.6	602.4	413.7	369.9	43.78	9.450				
7,900.0	6,819.0	8,126.6	7,040.0	27.2	27.6	-122.29	273.6	702.4	413.7	366.3	47.35	8.736				
8,000.0	6,819.0	8,226.6	7,040.0	29.4	29.8	-122.29	273.6	802.4	413.7	362.7	51.02	8.108				
8,100.0	6,819.0	8,326.6	7,040.0	31.6	32.0	-122.29	273.6	902.4	413.7	358.9	54.77	7.553				
8,200.0	6,819.0	8,426.6	7,040.0	33.9	34.3	-122.29	273.6	1,002.4	413.7	355.1	58.57	7.063				
8,300.0	6,819.0	8,526.6	7,040.0	36.2	36.6	-122.29	273.6	1,102.4	413.7	351.3	62.43	6.627				
8,400.0	6,819.0	8,626.6	7,040.0	38.5	38.9	-122.29	273.6	1,202.4	413.7	347.4	66.32	6.238				
8,500.0	6,819.0	8,726.6	7,040.0	40.9	41.2	-122.29	273.6	1,302.4	413.7	343.4	70.25	5.889				
8,600.0	6,819.0	8,826.6	7,040.0	43.2	43.5	-122.29	273.6	1,402.4	413.7	339.5	74.21	5.575				
8,700.0	6,819.0	8,926.6	7,040.0	45.6	45.9	-122.29	273.6	1,502.4	413.7	335.5	78.19	5.291				
8,800.0	6,819.0	9,026.6	7,040.0	47.9	48.2	-122.29	273.6	1,602.4	413.7	331.5	82.19	5.033				
8,900.0	6,819.0	9,126.6	7,040.0	50.3	50.6	-122.29	273.6	1,702.4	413.7	327.5	86.21	4.799				
9,000.0	6,819.0	9,226.6	7,040.0	52.7	53.0	-122.29	273.6	1,802.4	413.7	323.4	90.25	4.584				
9,100.0	6,819.0	9,326.6	7,040.0	55.1	55.4	-122.29	273.6	1,902.4	413.7	319.4	94.30	4.387				
9,200.0	6,819.0	9,426.6	7,040.0	57.5	57.8	-122.29	273.6	2,002.4	413.7	315.3	98.36	4.206				
9,300.0	6,819.0	9,526.6	7,040.0	59.9	60.2	-122.29	273.6	2,102.4	413.7	311.3	102.43	4.039				
9,400.0	6,819.0	9,626.6	7,040.0	62.4	62.6	-122.29	273.6	2,202.4	413.7	307.2	106.51	3.884				
9,500.0	6,819.0	9,726.6	7,040.0	64.8	65.0	-122.29	273.6	2,302.4	413.7	303.1	110.59	3.741				
9,600.0	6,819.0	9,826.6	7,040.0	67.2	67.5	-122.29	273.6	2,402.4	413.7	299.0	114.69	3.607				
9,700.0	6,819.0	9,926.6	7,040.0	69.6	69.9	-122.29	273.6	2,502.4	413.7	294.9	118.79	3.483				
9,800.0	6,819.0	10,026.6	7,040.0	72.1	72.3	-122.29	273.6	2,602.4	413.7	290.8	122.90	3.366				
9,900.0	6,819.0	10,126.6	7,040.0	74.5	74.7	-122.29	273.6	2,702.4	413.7	286.7	127.01	3.257				
10,000.0	6,819.0	10,226.6	7,040.0	76.9	77.2	-122.29	273.6	2,802.4	413.7	282.6	131.13	3.155				
10,100.0	6,819.0	10,326.6	7,040.0	79.4	79.6	-122.29	273.6	2,902.4	413.7	278.4	135.25	3.059				
10,200.0	6,819.0	10,426.6	7,040.0	81.8	82.0	-122.29	273.6	3,002.4	413.7	274.3	139.38	2.968				
10,300.0	6,819.0	10,526.6	7,040.0	84.3	84.5	-122.29	273.6	3,102.4	413.7	270.2	143.51	2.883				

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Boyd 3E-19H-M368
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5029.0ft (Original Well Elev)
<b>Reference Site:</b>	S19-T3N-R68W (Boyd)	<b>MD Reference:</b>	WELL @ 5029.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Boyd 3E-19H-M368	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	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)					
10,400.0	6,819.0	10,626.6	7,040.0	86.7	86.9	-122.29	273.6	3,202.4	413.7	266.1	147.64	2.802			
10,500.0	6,819.0	10,726.6	7,040.0	89.1	89.4	-122.29	273.6	3,302.4	413.7	261.9	151.78	2.726			
10,600.0	6,819.0	10,826.6	7,040.0	91.6	91.8	-122.29	273.6	3,402.4	413.7	257.8	155.91	2.653			
10,700.0	6,819.0	10,926.6	7,040.0	94.0	94.3	-122.29	273.6	3,502.4	413.7	253.6	160.06	2.585			
10,800.0	6,819.0	11,026.6	7,040.0	96.5	96.7	-122.29	273.6	3,602.4	413.7	249.5	164.20	2.519			
10,900.0	6,819.0	11,126.6	7,040.0	98.9	99.1	-122.29	273.6	3,702.4	413.7	245.3	168.35	2.457			
11,000.0	6,819.0	11,226.6	7,040.0	101.4	101.6	-122.29	273.6	3,802.4	413.7	241.2	172.49	2.398			
11,100.0	6,819.0	11,326.6	7,040.0	103.8	104.1	-122.29	273.6	3,902.4	413.7	237.0	176.64	2.342			
11,200.0	6,819.0	11,426.6	7,040.0	106.3	106.5	-122.29	273.6	4,002.4	413.7	232.9	180.80	2.288			
11,300.0	6,819.0	11,526.6	7,040.0	108.8	109.0	-122.29	273.6	4,102.4	413.7	228.7	184.95	2.237			
11,373.2	6,819.0	11,599.9	7,040.0	110.6	110.8	-122.29	273.6	4,175.6	413.7	225.7	187.99	2.201 SF			

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Boyd 3E-19H-M368
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5029.0ft (Original Well Elev)
<b>Reference Site:</b>	S19-T3N-R68W (Boyd)	<b>MD Reference:</b>	WELL @ 5029.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Boyd 3E-19H-M368	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S19-T3N-R68W (Boyd) - Boyd 3F-19H-M368 - 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 Uncertainty Axis	Separation Factor	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)					
0.0	0.0	0.0	0.0	0.0	0.0	180.00	-7.3	0.0	7.3						
100.0	100.0	100.0	100.0	0.1	0.1	180.00	-7.3	0.0	7.3	7.0	0.26	27.829			
200.0	200.0	200.0	200.0	0.3	0.3	180.00	-7.3	0.0	7.3	6.7	0.61	11.927			
300.0	300.0	300.0	300.0	0.5	0.5	180.00	-7.3	0.0	7.3	6.3	0.96	7.590			
400.0	400.0	400.0	400.0	0.7	0.7	180.00	-7.3	0.0	7.3	6.0	1.31	5.566	CC, ES		
500.0	500.0	499.9	499.9	0.8	0.8	-174.59	-7.8	-0.7	7.8	6.1	1.66	4.698			
600.0	600.0	599.8	599.8	1.0	1.0	-70.53	-9.2	-2.9	9.3	7.3	2.01	4.628			
700.0	700.0	699.6	699.5	1.2	1.2	-67.59	-11.5	-6.6	11.5	9.2	2.36	4.883			
800.0	799.9	799.4	799.1	1.4	1.4	-67.50	-14.8	-11.7	14.4	11.7	2.73	5.292			
900.0	899.7	899.2	898.5	1.6	1.6	-68.88	-19.0	-18.3	18.0	14.9	3.11	5.782			
1,000.0	999.4	998.8	997.7	1.8	1.8	-70.91	-24.1	-26.3	22.2	18.7	3.51	6.313			
1,100.0	1,098.9	1,098.4	1,096.7	2.0	2.1	-73.12	-30.2	-35.8	27.1	23.1	3.95	6.856			
1,200.0	1,198.3	1,198.2	1,195.8	2.2	2.3	-75.64	-36.8	-46.1	32.3	27.9	4.41	7.327			
1,300.0	1,297.7	1,298.1	1,294.9	2.5	2.6	-77.58	-43.4	-56.5	37.5	32.7	4.88	7.693			
1,400.0	1,397.1	1,397.9	1,394.0	2.7	2.8	-79.04	-50.0	-66.8	42.8	37.5	5.36	7.988			
1,500.0	1,496.5	1,497.8	1,493.1	2.9	3.1	-80.18	-56.6	-77.1	48.1	42.3	5.85	8.228			
1,600.0	1,595.9	1,597.7	1,592.2	3.2	3.4	-81.10	-63.2	-87.4	53.4	47.1	6.34	8.427			
1,700.0	1,695.3	1,697.5	1,691.3	3.4	3.6	-81.85	-69.8	-97.7	58.8	51.9	6.84	8.594			
1,800.0	1,794.7	1,797.4	1,790.4	3.7	3.9	-82.47	-76.4	-108.0	64.1	56.8	7.34	8.736			
1,900.0	1,894.1	1,897.2	1,889.5	3.9	4.2	-83.00	-83.0	-118.4	69.4	61.6	7.84	8.857			
2,000.0	1,993.5	1,997.1	1,988.6	4.2	4.4	-83.46	-89.6	-128.7	74.8	66.4	8.34	8.962			
2,100.0	2,092.9	2,096.9	2,087.7	4.4	4.7	-83.85	-96.2	-139.0	80.1	71.3	8.85	9.054			
2,200.0	2,192.3	2,196.8	2,186.8	4.7	5.0	-84.19	-102.8	-149.3	85.5	76.1	9.36	9.135			
2,300.0	2,291.7	2,296.6	2,285.9	4.9	5.2	-84.49	-109.4	-159.6	90.8	81.0	9.87	9.207			
2,400.0	2,391.1	2,396.5	2,385.0	5.2	5.5	-84.76	-116.0	-170.0	96.2	85.8	10.38	9.271			
2,500.0	2,490.5	2,496.4	2,484.1	5.5	5.8	-85.01	-122.5	-180.3	101.6	90.7	10.89	9.328			
2,600.0	2,589.8	2,596.2	2,583.2	5.7	6.1	-85.22	-129.1	-190.6	106.9	95.5	11.40	9.380			
2,700.0	2,689.2	2,696.1	2,682.3	6.0	6.3	-85.42	-135.7	-200.9	112.3	100.4	11.91	9.427			
2,800.0	2,788.6	2,795.9	2,781.4	6.2	6.6	-85.60	-142.3	-211.2	117.7	105.2	12.43	9.469			
2,900.0	2,888.0	2,895.8	2,880.5	6.5	6.9	-85.76	-148.9	-221.6	123.0	110.1	12.94	9.508			
3,000.0	2,987.4	2,995.6	2,979.6	6.7	7.2	-85.91	-155.5	-231.9	128.4	114.9	13.45	9.544			
3,100.0	3,086.8	3,095.5	3,078.7	7.0	7.4	-86.04	-162.1	-242.2	133.8	119.8	13.97	9.577			
3,200.0	3,186.2	3,195.3	3,177.8	7.3	7.7	-86.17	-168.7	-252.5	139.1	124.6	14.48	9.607			
3,300.0	3,285.6	3,295.2	3,276.9	7.5	8.0	-86.29	-175.3	-262.8	144.5	129.5	15.00	9.636			
3,400.0	3,385.0	3,395.1	3,376.0	7.8	8.3	-86.40	-181.9	-273.1	149.9	134.4	15.51	9.662			
3,500.0	3,484.4	3,494.9	3,475.1	8.0	8.5	-86.50	-188.5	-283.5	155.2	139.2	16.03	9.686			
3,600.0	3,583.8	3,594.8	3,574.2	8.3	8.8	-86.59	-195.1	-293.8	160.6	144.1	16.54	9.709			
3,700.0	3,683.2	3,694.6	3,673.3	8.5	9.1	-86.68	-201.7	-304.1	166.0	148.9	17.06	9.730			
3,800.0	3,782.6	3,794.5	3,772.4	8.8	9.4	-86.76	-208.3	-314.4	171.3	153.8	17.57	9.750			
3,900.0	3,882.0	3,894.3	3,871.5	9.1	9.6	-86.84	-214.9	-324.7	176.7	158.6	18.09	9.768			
4,000.0	3,981.4	3,994.2	3,970.6	9.3	9.9	-86.91	-221.5	-335.1	182.1	163.5	18.61	9.786			
4,100.0	4,080.8	4,094.0	4,069.7	9.6	10.2	-86.98	-228.1	-345.4	187.5	168.3	19.12	9.803			
4,200.0	4,180.2	4,193.9	4,168.8	9.8	10.5	-87.05	-234.7	-355.7	192.8	173.2	19.64	9.818			
4,300.0	4,279.6	4,293.8	4,267.9	10.1	10.7	-87.11	-241.3	-366.0	198.2	178.1	20.16	9.833			
4,400.0	4,379.0	4,393.6	4,367.0	10.4	11.0	-87.17	-247.9	-376.3	203.6	182.9	20.67	9.847			
4,500.0	4,478.4	4,493.5	4,466.1	10.6	11.3	-87.22	-254.5	-386.7	209.0	187.8	21.19	9.860			
4,600.0	4,577.8	4,593.3	4,565.2	10.9	11.6	-87.28	-261.1	-397.0	214.3	192.6	21.71	9.873			
4,700.0	4,677.2	4,693.2	4,664.3	11.1	11.8	-87.33	-267.7	-407.3	219.7	197.5	22.23	9.885			
4,800.0	4,776.6	4,793.0	4,763.4	11.4	12.1	-87.37	-274.3	-417.6	225.1	202.3	22.74	9.896			
4,900.0	4,876.0	4,892.9	4,862.5	11.7	12.4	-87.42	-280.9	-427.9	230.5	207.2	23.26	9.907			
5,000.0	4,975.3	4,992.7	4,961.6	11.9	12.7	-87.46	-287.5	-438.3	235.8	212.0	23.78	9.917			
5,100.0	5,074.7	5,092.6	5,060.7	12.2	12.9	-87.50	-294.1	-448.6	241.2	216.9	24.30	9.927			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Boyd 3E-19H-M368
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5029.0ft (Original Well Elev)
<b>Reference Site:</b>	S19-T3N-R68W (Boyd)	<b>MD Reference:</b>	WELL @ 5029.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Boyd 3E-19H-M368	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 ft						
Survey Program: 0-Geolink MWD													Offset Well Error:		0.0 ft					
Reference													Semi Major Axis		Distance					
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	Warning							
5,200.0	5,174.1	5,192.4	5,159.8	12.4	13.2	-87.54	-300.7	-458.9	246.6	221.8	24.81	9.937								
5,300.0	5,273.5	5,292.3	5,258.9	12.7	13.5	-87.58	-307.3	-469.2	251.9	226.6	25.33	9.946								
5,400.0	5,372.9	5,392.2	5,358.0	12.9	13.8	-87.62	-313.9	-479.5	257.3	231.5	25.85	9.955								
5,500.0	5,472.3	5,492.0	5,457.1	13.2	14.0	-87.65	-320.5	-489.8	262.7	236.3	26.37	9.963								
5,600.0	5,571.7	5,591.9	5,556.2	13.5	14.3	-87.69	-327.1	-500.2	268.1	241.2	26.89	9.971								
5,700.0	5,671.1	5,691.7	5,655.3	13.7	14.6	-87.72	-333.7	-510.5	273.4	246.0	27.40	9.979								
5,800.0	5,770.5	5,791.6	5,754.4	14.0	14.9	-87.75	-340.3	-520.8	278.8	250.9	27.92	9.986								
5,900.0	5,869.9	5,891.4	5,853.5	14.2	15.2	-87.78	-346.9	-531.1	284.2	255.8	28.44	9.993								
6,000.0	5,969.3	5,991.3	5,952.6	14.5	15.4	-87.81	-353.5	-541.4	289.6	260.6	28.96	10.000								
6,100.0	6,068.7	6,091.1	6,051.7	14.8	15.7	-87.83	-360.1	-551.8	294.9	265.5	29.48	10.006								
6,200.0	6,168.1	6,191.0	6,150.8	15.0	16.0	-87.86	-366.7	-562.1	300.3	270.3	29.99	10.013								
6,300.0	6,267.9	6,290.6	6,249.7	15.2	16.3	67.78	-373.2	-572.4	305.3	274.9	30.34	10.060								
6,400.0	6,366.9	6,387.7	6,346.0	15.1	16.5	86.44	-379.7	-582.4	310.0	279.8	30.21	10.262								
6,500.0	6,462.4	6,481.6	6,439.3	14.8	16.8	93.73	-385.9	-591.3	317.8	288.2	29.57	10.746								
6,600.0	6,551.2	6,583.2	6,540.5	14.4	16.8	100.44	-392.6	-587.5	330.7	302.2	28.50	11.601								
6,700.0	6,630.8	6,694.6	6,648.7	13.9	16.7	106.44	-399.8	-562.8	347.5	320.3	27.17	12.789								
6,800.0	6,698.6	6,818.0	6,760.4	13.5	16.3	111.74	-407.2	-511.6	366.5	340.7	25.75	14.234								
6,900.0	6,752.8	6,955.7	6,869.0	13.2	15.8	116.23	-414.5	-427.7	385.3	360.7	24.51	15.716								
7,000.0	6,791.5	7,108.7	6,962.4	13.2	15.2	119.67	-420.7	-307.3	401.0	377.1	23.90	16.780								
7,100.0	6,813.7	7,274.9	7,024.0	13.7	14.8	121.76	-424.8	-153.6	411.1	386.7	24.44	16.822								
7,200.0	6,819.0	7,432.2	7,040.0	14.6	15.3	122.29	-425.9	2.4	413.7	387.4	26.25	15.761								
7,300.0	6,819.0	7,532.2	7,040.0	15.9	16.6	122.29	-425.9	102.4	413.7	385.3	28.36	14.585								
7,400.0	6,819.0	7,632.2	7,040.0	17.4	18.2	122.29	-425.9	202.4	413.7	382.8	30.90	13.389								
7,500.0	6,819.0	7,732.2	7,040.0	19.1	19.9	122.29	-425.9	302.4	413.7	379.9	33.76	12.253								
7,600.0	6,819.0	7,832.2	7,040.0	21.0	21.8	122.29	-425.9	402.4	413.7	376.8	36.88	11.216								
7,700.0	6,819.0	7,932.2	7,040.0	23.0	23.7	122.29	-425.9	502.4	413.7	373.5	40.20	10.291								
7,800.0	6,819.0	8,032.2	7,040.0	25.1	25.8	122.29	-425.9	602.4	413.7	370.0	43.66	9.475								
7,900.0	6,819.0	8,132.2	7,040.0	27.2	27.9	122.29	-425.9	702.4	413.7	366.4	47.25	8.756								
8,000.0	6,819.0	8,232.2	7,040.0	29.4	30.1	122.29	-425.9	802.4	413.7	362.8	50.92	8.124								
8,100.0	6,819.0	8,332.2	7,040.0	31.6	32.3	122.29	-425.9	902.4	413.7	359.0	54.67	7.567								
8,200.0	6,819.0	8,432.2	7,040.0	33.9	34.5	122.29	-425.9	1,002.4	413.7	355.2	58.48	7.074								
8,300.0	6,819.0	8,532.2	7,040.0	36.2	36.8	122.29	-425.9	1,102.4	413.7	351.4	62.34	6.636								
8,400.0	6,819.0	8,632.2	7,040.0	38.5	39.1	122.29	-425.9	1,202.4	413.7	347.5	66.24	6.246								
8,500.0	6,819.0	8,732.2	7,040.0	40.9	41.4	122.29	-425.9	1,302.4	413.7	343.5	70.17	5.896								
8,600.0	6,819.0	8,832.2	7,040.0	43.2	43.7	122.29	-425.9	1,402.4	413.7	339.6	74.13	5.581								
8,700.0	6,819.0	8,932.2	7,040.0	45.6	46.0	122.29	-425.9	1,502.4	413.7	335.6	78.11	5.296								
8,800.0	6,819.0	9,032.2	7,040.0	47.9	48.4	122.29	-425.9	1,602.4	413.7	331.6	82.12	5.038								
8,900.0	6,819.0	9,132.2	7,040.0	50.3	50.8	122.29	-425.9	1,702.4	413.7	327.6	86.14	4.803								
9,000.0	6,819.0	9,232.2	7,040.0	52.7	53.2	122.29	-425.9	1,802.4	413.7	323.5	90.18	4.588								
9,100.0	6,819.0	9,332.2	7,040.0	55.1	55.5	122.29	-425.9	1,902.4	413.7	319.5	94.23	4.390								
9,200.0	6,819.0	9,432.2	7,040.0	57.5	57.9	122.29	-425.9	2,002.4	413.7	315.4	98.29	4.209								
9,300.0	6,819.0	9,532.2	7,040.0	59.9	60.3	122.29	-425.9	2,102.4	413.7	311.3	102.36	4.041								
9,400.0	6,819.0	9,632.2	7,040.0	62.4	62.7	122.29	-425.9	2,202.4	413.7	307.2	106.44	3.887								
9,500.0	6,819.0	9,732.2	7,040.0	64.8	65.1	122.29	-425.9	2,302.4	413.7	303.2	110.53	3.743								
9,600.0	6,819.0	9,832.2	7,040.0	67.2	67.6	122.29	-425.9	2,402.4	413.7	299.1	114.63	3.609								
9,700.0	6,819.0	9,932.2	7,040.0	69.6	70.0	122.29	-425.9	2,502.4	413.7	295.0	118.73	3.484								
9,800.0	6,819.0	10,032.2	7,040.0	72.1	72.4	122.29	-425.9	2,602.4	413.7	290.9	122.84	3.368								
9,900.0	6,819.0	10,132.2	7,040.0	74.5	74.8	122.29	-425.9	2,702.4	413.7	286.7	126.95	3.259								
10,000.0	6,819.0	10,232.2	7,040.0	76.9	77.3	122.29	-425.9	2,802.4	413.7	282.6	131.07	3.156								
10,100.0	6,819.0	10,332.2	7,040.0	79.4	79.7	122.29	-425.9	2,902.4	413.7	278.5	135.20	3.060								
10,200.0	6,819.0	10,432.2	7,040.0	81.8	82.1	122.29	-425.9	3,002.4	413.7	274.4	139.32	2.969								
10,300.0	6,819.0	10,532.2	7,040.0	84.3	84.6	122.29	-425.9	3,102.4	413.7	270.2	143.45	2.884								

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Boyd 3E-19H-M368
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5029.0ft (Original Well Elev)
<b>Reference Site:</b>	S19-T3N-R68W (Boyd)	<b>MD Reference:</b>	WELL @ 5029.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Boyd 3E-19H-M368	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S19-T3N-R68W (Boyd) - Boyd 3F-19H-M368 - Hz - Plan #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance							
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	Warning	
10,400.0	6,819.0	10,632.2	7,040.0	86.7	87.0	122.29	-425.9	3,202.4	413.7	266.1	147.59	2.803		
10,500.0	6,819.0	10,732.2	7,040.0	89.1	89.4	122.29	-425.9	3,302.4	413.7	262.0	151.72	2.727		
10,600.0	6,819.0	10,832.2	7,040.0	91.6	91.9	122.29	-425.9	3,402.4	413.7	257.8	155.86	2.654		
10,700.0	6,819.0	10,932.2	7,040.0	94.0	94.3	122.29	-425.9	3,502.4	413.7	253.7	160.00	2.585		
10,800.0	6,819.0	11,032.2	7,040.0	96.5	96.8	122.29	-425.9	3,602.4	413.7	249.5	164.15	2.520		
10,900.0	6,819.0	11,132.2	7,040.0	98.9	99.2	122.29	-425.9	3,702.4	413.7	245.4	168.30	2.458		
11,000.0	6,819.0	11,232.2	7,040.0	101.4	101.7	122.29	-425.9	3,802.4	413.7	241.2	172.44	2.399		
11,100.0	6,819.0	11,332.2	7,040.0	103.8	104.1	122.29	-425.9	3,902.4	413.7	237.1	176.59	2.343		
11,200.0	6,819.0	11,432.2	7,040.0	106.3	106.6	122.29	-425.9	4,002.4	413.7	232.9	180.75	2.289		
11,300.0	6,819.0	11,532.2	7,040.0	108.8	109.0	122.29	-425.9	4,102.4	413.7	228.8	184.90	2.237		
11,352.9	6,819.0	11,585.1	7,040.0	110.1	110.3	122.29	-425.9	4,155.3	413.7	226.6	187.10	2.211		
11,373.2	6,819.0	11,602.7	7,040.0	110.6	110.8	122.29	-425.9	4,172.9	413.7	225.8	187.89	2.202 SF		

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Boyd 3E-19H-M368
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5029.0ft (Original Well Elev)
<b>Reference Site:</b>	S19-T3N-R68W (Boyd)	<b>MD Reference:</b>	WELL @ 5029.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Boyd 3E-19H-M368	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

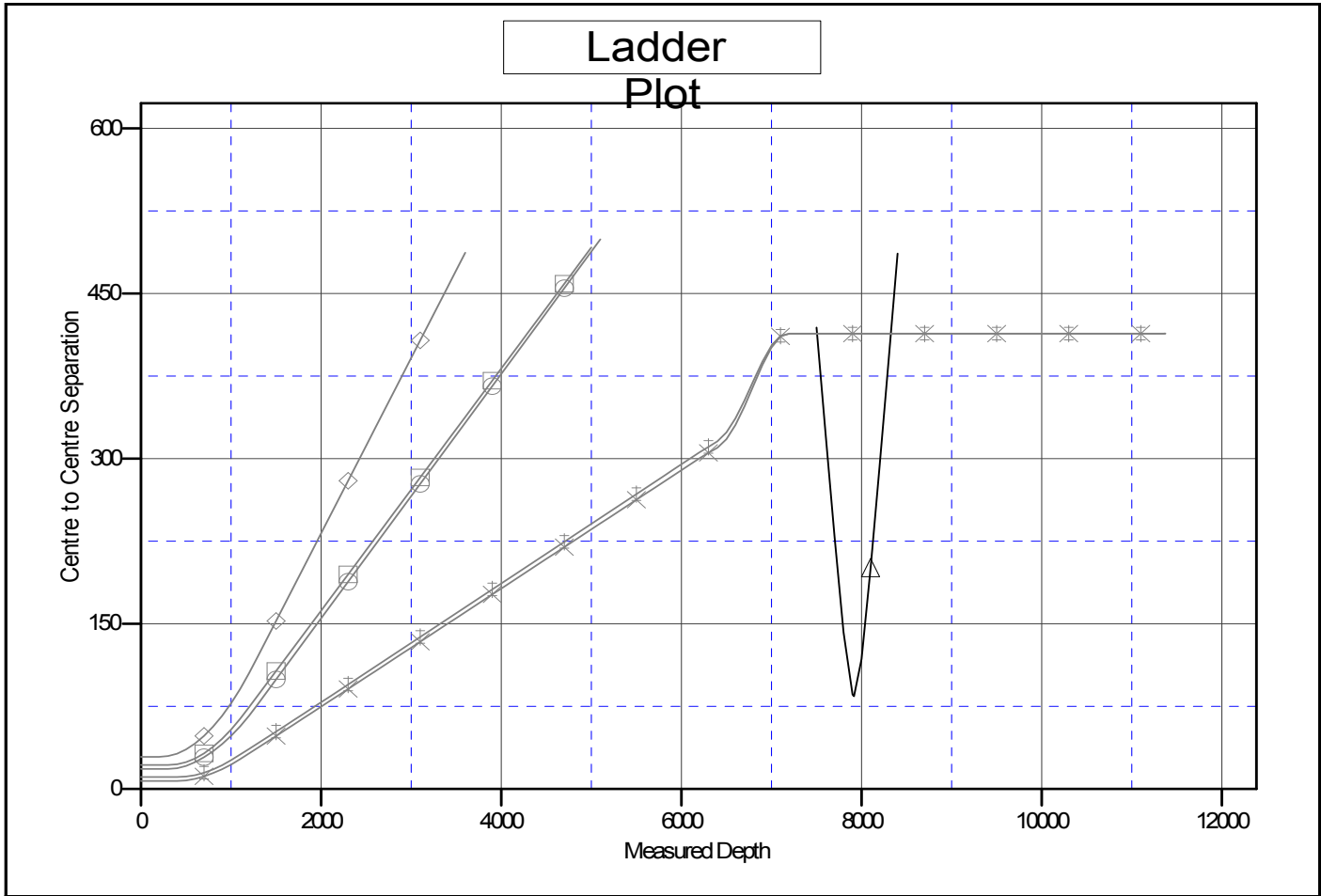
Offset Design													Offset Site Error:	0.0 ft
S19-T3N-R68W (Boyd) - Boyd 3G-19H-M368 - Hz - Plan #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (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	180.00	-18.2	0.0	18.2					
100.0	100.0	100.0	100.0	0.1	0.1	180.00	-18.2	0.0	18.2	18.0	0.26	69.573		
200.0	200.0	200.0	200.0	0.3	0.3	180.00	-18.2	0.0	18.2	17.6	0.61	29.817		
300.0	300.0	300.0	300.0	0.5	0.5	180.00	-18.2	0.0	18.2	17.3	0.96	18.974	CC, ES	
400.0	400.0	399.8	399.7	0.7	0.7	-178.27	-18.9	-0.6	18.9	17.6	1.31	14.423		
500.0	500.0	499.4	499.4	0.8	0.8	-173.76	-20.8	-2.3	21.0	19.3	1.66	12.623		
600.0	600.0	599.0	598.9	1.0	1.0	-73.32	-24.1	-5.1	24.4	22.4	2.01	12.139	SF	
700.0	700.0	698.5	698.2	1.2	1.2	-72.06	-28.7	-9.1	28.9	26.5	2.37	12.203		
800.0	799.9	797.9	797.3	1.4	1.4	-72.47	-34.5	-14.2	34.3	31.6	2.73	12.567		
900.0	899.7	897.1	896.1	1.6	1.6	-73.85	-41.7	-20.4	40.8	37.7	3.11	13.097		
1,000.0	999.4	996.2	994.5	1.8	1.9	-75.72	-50.1	-27.7	48.2	44.7	3.52	13.717		
1,100.0	1,098.9	1,095.1	1,092.5	2.0	2.2	-77.78	-59.8	-36.1	56.8	52.8	3.95	14.374		
1,200.0	1,198.3	1,193.7	1,190.1	2.2	2.4	-79.55	-70.7	-45.6	66.5	62.1	4.41	15.086		
1,300.0	1,297.7	1,292.7	1,287.8	2.5	2.8	-80.26	-82.8	-56.1	77.4	72.5	4.87	15.876		
1,400.0	1,397.1	1,392.1	1,385.8	2.7	3.1	-80.72	-95.1	-66.8	88.5	83.1	5.35	16.532		
1,500.0	1,496.5	1,491.4	1,483.8	2.9	3.4	-81.07	-107.4	-77.4	99.6	93.7	5.84	17.062		
1,600.0	1,595.9	1,590.8	1,581.9	3.2	3.7	-81.36	-119.6	-88.1	110.7	104.3	6.32	17.498		
1,700.0	1,695.3	1,690.2	1,679.9	3.4	4.0	-81.59	-131.9	-98.8	121.8	114.9	6.82	17.861		
1,800.0	1,794.7	1,789.6	1,778.0	3.7	4.3	-81.78	-144.2	-109.5	132.8	125.5	7.31	18.167		
1,900.0	1,894.1	1,889.0	1,876.0	3.9	4.7	-81.94	-156.5	-120.1	143.9	136.1	7.81	18.429		
2,000.0	1,993.5	1,988.3	1,974.0	4.2	5.0	-82.08	-168.8	-130.8	155.0	146.7	8.31	18.654		
2,100.0	2,092.9	2,087.7	2,072.1	4.4	5.3	-82.20	-181.0	-141.5	166.1	157.3	8.81	18.851		
2,200.0	2,192.3	2,187.1	2,170.1	4.7	5.7	-82.31	-193.3	-152.1	177.2	167.9	9.32	19.023		
2,300.0	2,291.7	2,286.5	2,268.2	4.9	6.0	-82.40	-205.6	-162.8	188.3	178.5	9.82	19.175		
2,400.0	2,391.1	2,385.9	2,366.2	5.2	6.3	-82.49	-217.9	-173.5	199.4	189.1	10.33	19.311		
2,500.0	2,490.5	2,485.3	2,464.2	5.5	6.6	-82.56	-230.2	-184.1	210.5	199.7	10.84	19.432		
2,600.0	2,589.8	2,584.6	2,562.3	5.7	7.0	-82.63	-242.4	-194.8	221.6	210.3	11.34	19.541		
2,700.0	2,689.2	2,684.0	2,660.3	6.0	7.3	-82.69	-254.7	-205.5	232.7	220.9	11.85	19.639		
2,800.0	2,788.6	2,783.4	2,758.4	6.2	7.6	-82.74	-267.0	-216.1	243.9	231.5	12.36	19.729		
2,900.0	2,888.0	2,882.8	2,856.4	6.5	8.0	-82.79	-279.3	-226.8	255.0	242.1	12.87	19.811		
3,000.0	2,987.4	2,982.2	2,954.5	6.7	8.3	-82.84	-291.5	-237.5	266.1	252.7	13.38	19.885		
3,100.0	3,086.8	3,081.5	3,052.5	7.0	8.6	-82.88	-303.8	-248.1	277.2	263.3	13.89	19.954		
3,200.0	3,186.2	3,180.9	3,150.5	7.3	9.0	-82.92	-316.1	-258.8	288.3	273.9	14.40	20.017		
3,300.0	3,285.6	3,280.3	3,248.6	7.5	9.3	-82.96	-328.4	-269.5	299.4	284.5	14.91	20.076		
3,400.0	3,385.0	3,379.7	3,346.6	7.8	9.6	-82.99	-340.7	-280.1	310.5	295.0	15.42	20.130		
3,500.0	3,484.4	3,479.1	3,444.7	8.0	10.0	-83.02	-352.9	-290.8	321.6	305.6	15.93	20.180		
3,600.0	3,583.8	3,578.4	3,542.7	8.3	10.3	-83.05	-365.2	-301.5	332.7	316.2	16.45	20.227		
3,700.0	3,683.2	3,677.8	3,640.7	8.5	10.6	-83.08	-377.5	-312.1	343.8	326.8	16.96	20.271		
3,800.0	3,782.6	3,777.2	3,738.8	8.8	10.9	-83.10	-389.8	-322.8	354.9	337.4	17.47	20.312		
3,900.0	3,882.0	3,876.6	3,836.8	9.1	11.3	-83.13	-402.1	-333.5	366.0	348.0	17.98	20.351		
4,000.0	3,981.4	3,976.0	3,934.9	9.3	11.6	-83.15	-414.3	-344.2	377.1	358.6	18.50	20.387		
4,100.0	4,080.8	4,075.4	4,032.9	9.6	11.9	-83.17	-426.6	-354.8	388.2	369.2	19.01	20.421		
4,200.0	4,180.2	4,174.7	4,131.0	9.8	12.3	-83.19	-438.9	-365.5	399.3	379.8	19.52	20.453		
4,300.0	4,279.6	4,274.1	4,229.0	10.1	12.6	-83.21	-451.2	-376.2	410.4	390.4	20.04	20.484		
4,400.0	4,379.0	4,373.5	4,327.0	10.4	12.9	-83.23	-463.5	-386.8	421.5	400.9	20.55	20.512		
4,500.0	4,478.4	4,472.9	4,425.1	10.6	13.3	-83.25	-475.7	-397.5	432.6	411.5	21.06	20.540		
4,600.0	4,577.8	4,572.3	4,523.1	10.9	13.6	-83.26	-488.0	-408.2	443.7	422.1	21.58	20.565		
4,700.0	4,677.2	4,671.6	4,621.2	11.1	13.9	-83.28	-500.3	-418.8	454.8	432.7	22.09	20.590		
4,800.0	4,776.6	4,771.0	4,719.2	11.4	14.3	-83.29	-512.6	-429.5	465.9	443.3	22.60	20.613		
4,900.0	4,876.0	4,870.4	4,817.2	11.7	14.6	-83.31	-524.9	-440.2	477.0	453.9	23.12	20.636		
5,000.0	4,975.3	4,969.8	4,915.3	11.9	14.9	-83.32	-537.1	-450.8	488.1	464.5	23.63	20.657		
5,100.0	5,074.7	5,069.2	5,013.3	12.2	15.3	-83.33	-549.4	-461.5	499.2	475.1	24.14	20.677		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Boyd 3E-19H-M368
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5029.0ft (Original Well Elev)
<b>Reference Site:</b>	S19-T3N-R68W (Boyd)	<b>MD Reference:</b>	WELL @ 5029.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Boyd 3E-19H-M368	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to WELL @ 5029.0ft (Original Well Elev)	Coordinates are relative to: Boyd 3E-19H-M368
Offset Depths are relative to Offset Datum	Coordinate System is US State Plane 1983, Colorado Northern Zone
Central Meridian is -105.500000 °	Grid Convergence at Surface is: 0.29°



### LEGEND

- |  |                                  |                                  |
|--|----------------------------------|----------------------------------|
| 3-19 (EXISTING), ENCANA WELL, SURVEYS V0 | Boyd 3C-19H-M368, Hz, Plan #1 V0 | Boyd 3F-19H-M368, Hz, Plan #1 V0 |
| 3E-19H-M368, Hz, Plan #1 V0              | Boyd 3D-19H-M368, Hz, Plan #1 V0 | Boyd 3G-19H-M368, Hz, Plan #1 V0 |