



Plan #1
Sprague 3D-9H-N267
13xxx; LR
WELL @ 5011.0ft (Original Well Elev)
Ground Elevation @ 4981.0
North American Datum 1983
Well Sprague 3D-9H-N267, True North

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
461.0	461.0	Fox Hills - BASE
4418.0	4451.3	Sussex
4665.0	4700.7	Sussex Marker
4963.0	5001.6	Shannon
6311.0	6359.9	Teepee Buttes (*if present)
7184.0	7239.5	Sharon Springs
7249.0	7312.5	Niobrara
7297.0	7370.2	B Chalk
7329.0	7411.2	B Marl
7371.0	7469.1	C Chalk
7449.0	7598.6	C Marl
7495.0	7706.7	Ft. Hayes
7519.0	7797.8	Codell

Vertical Section at 0.00° (1000 ft/in)

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Sprague 3D-9H-N267
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 5011.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 5011.0ft (Original Well Elev)
Site:	S9-T2N-R67W (Sprague)	North Reference:	True
Well:	Sprague 3D-9H-N267	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		S9-T2N-R67W (Sprague)			
Site Position:		Northing:	1,298,443.90 ft	Latitude:	40.151070
From:	Lat/Long	Easting:	3,167,093.12 ft	Longitude:	-104.902260
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	0.39 °

Well	Sprague 3D-9H-N267					
Well Position	+N/-S	0.0 ft	Northing:	1,296,975.63 ft	Latitude:	40.147020
	+E/-W	0.0 ft	Easting:	3,168,148.56 ft	Longitude:	-104.898520
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,981.0 ft

Wellbore	Hz				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	11/5/2013	8.59	66.74	52,731

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	0.00

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	
500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,300.0	8.00	240.00	1,297.4	-27.9	-48.3	1.00	1.00	0.00	240.00	
5,800.0	8.00	240.00	5,753.6	-341.0	-590.7	0.00	0.00	0.00	0.00	
6,600.0	0.00	0.00	6,551.0	-368.9	-639.0	1.00	-1.00	0.00	180.00	
7,005.0	0.00	0.00	6,956.0	-368.9	-639.0	0.00	0.00	0.00	0.00	
7,905.0	90.00	0.67	7,529.0	204.0	-632.2	10.00	10.00	0.00	0.67	
10,949.1	90.00	0.67	7,529.0	3,247.9	-596.6	0.00	0.00	0.00	0.00	Sprague 3D-9H-N267
11,192.0	90.00	3.10	7,529.0	3,490.6	-588.6	1.00	0.00	1.00	90.00	
12,876.7	90.00	3.10	7,529.0	5,172.8	-497.5	0.00	0.00	0.00	0.00	Sprague 3D-9H-N267

Planning Report

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Project:	DJ Wattenberg	MD Reference:	WELL @ 5011.0ft (Original Well Elev)
Site:	S9-T2N-R67W (Sprague)	North Reference:	True
Well:	Sprague 3D-9H-N267	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	
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	
461.0	0.00	0.00	461.0	0.0	0.0	0.0	0.00	0.00	Fox Hills - BASE
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	KOP @ 500'
600.0	1.00	240.00	600.0	-0.4	-0.8	-0.4	1.00	1.00	
700.0	2.00	240.00	700.0	-1.7	-3.0	-1.7	1.00	1.00	
800.0	3.00	240.00	799.9	-3.9	-6.8	-3.9	1.00	1.00	
900.0	4.00	240.00	899.7	-7.0	-12.1	-7.0	1.00	1.00	
1,000.0	5.00	240.00	999.4	-10.9	-18.9	-10.9	1.00	1.00	
1,100.0	6.00	240.00	1,098.9	-15.7	-27.2	-15.7	1.00	1.00	
1,200.0	7.00	240.00	1,198.3	-21.4	-37.0	-21.4	1.00	1.00	
1,300.0	8.00	240.00	1,297.4	-27.9	-48.3	-27.9	1.00	1.00	EOB; Inc=8°
1,400.0	8.00	240.00	1,396.4	-34.8	-60.3	-34.8	0.00	0.00	
1,500.0	8.00	240.00	1,495.5	-41.8	-72.4	-41.8	0.00	0.00	
1,600.0	8.00	240.00	1,594.5	-48.8	-84.4	-48.8	0.00	0.00	
1,700.0	8.00	240.00	1,693.5	-55.7	-96.5	-55.7	0.00	0.00	
1,800.0	8.00	240.00	1,792.5	-62.7	-108.6	-62.7	0.00	0.00	
1,900.0	8.00	240.00	1,891.6	-69.6	-120.6	-69.6	0.00	0.00	
2,000.0	8.00	240.00	1,990.6	-76.6	-132.7	-76.6	0.00	0.00	
2,100.0	8.00	240.00	2,089.6	-83.5	-144.7	-83.5	0.00	0.00	
2,200.0	8.00	240.00	2,188.6	-90.5	-156.8	-90.5	0.00	0.00	
2,300.0	8.00	240.00	2,287.7	-97.5	-168.8	-97.5	0.00	0.00	
2,400.0	8.00	240.00	2,386.7	-104.4	-180.9	-104.4	0.00	0.00	
2,500.0	8.00	240.00	2,485.7	-111.4	-192.9	-111.4	0.00	0.00	
2,600.0	8.00	240.00	2,584.8	-118.3	-205.0	-118.3	0.00	0.00	
2,700.0	8.00	240.00	2,683.8	-125.3	-217.0	-125.3	0.00	0.00	
2,800.0	8.00	240.00	2,782.8	-132.3	-229.1	-132.3	0.00	0.00	
2,900.0	8.00	240.00	2,881.8	-139.2	-241.1	-139.2	0.00	0.00	
3,000.0	8.00	240.00	2,980.9	-146.2	-253.2	-146.2	0.00	0.00	
3,100.0	8.00	240.00	3,079.9	-153.1	-265.2	-153.1	0.00	0.00	
3,200.0	8.00	240.00	3,178.9	-160.1	-277.3	-160.1	0.00	0.00	
3,300.0	8.00	240.00	3,277.9	-167.1	-289.3	-167.1	0.00	0.00	
3,400.0	8.00	240.00	3,377.0	-174.0	-301.4	-174.0	0.00	0.00	
3,500.0	8.00	240.00	3,476.0	-181.0	-313.4	-181.0	0.00	0.00	
3,600.0	8.00	240.00	3,575.0	-187.9	-325.5	-187.9	0.00	0.00	
3,700.0	8.00	240.00	3,674.0	-194.9	-337.6	-194.9	0.00	0.00	
3,800.0	8.00	240.00	3,773.1	-201.8	-349.6	-201.8	0.00	0.00	
3,900.0	8.00	240.00	3,872.1	-208.8	-361.7	-208.8	0.00	0.00	
4,000.0	8.00	240.00	3,971.1	-215.8	-373.7	-215.8	0.00	0.00	
4,100.0	8.00	240.00	4,070.2	-222.7	-385.8	-222.7	0.00	0.00	
4,200.0	8.00	240.00	4,169.2	-229.7	-397.8	-229.7	0.00	0.00	
4,300.0	8.00	240.00	4,268.2	-236.6	-409.9	-236.6	0.00	0.00	
4,400.0	8.00	240.00	4,367.2	-243.6	-421.9	-243.6	0.00	0.00	
4,451.3	8.00	240.00	4,418.0	-247.2	-428.1	-247.2	0.00	0.00	Sussex
4,500.0	8.00	240.00	4,466.3	-250.6	-434.0	-250.6	0.00	0.00	
4,600.0	8.00	240.00	4,565.3	-257.5	-446.0	-257.5	0.00	0.00	
4,700.0	8.00	240.00	4,664.3	-264.5	-458.1	-264.5	0.00	0.00	
4,700.7	8.00	240.00	4,665.0	-264.5	-458.2	-264.5	0.00	0.00	Sussex Marker
4,800.0	8.00	240.00	4,763.3	-271.4	-470.1	-271.4	0.00	0.00	

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Project:	DJ Wattenberg	MD Reference:	WELL @ 5011.0ft (Original Well Elev)
Site:	S9-T2N-R67W (Sprague)	North Reference:	True
Well:	Sprague 3D-9H-N267	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	8.00	240.00	4,862.4	-278.4	-482.2	-278.4	0.00	0.00	
5,000.0	8.00	240.00	4,961.4	-285.4	-494.2	-285.4	0.00	0.00	
5,001.6	8.00	240.00	4,963.0	-285.5	-494.4	-285.5	0.00	0.00	Shannon
5,100.0	8.00	240.00	5,060.4	-292.3	-506.3	-292.3	0.00	0.00	
5,200.0	8.00	240.00	5,159.4	-299.3	-518.3	-299.3	0.00	0.00	
5,300.0	8.00	240.00	5,258.5	-306.2	-530.4	-306.2	0.00	0.00	
5,400.0	8.00	240.00	5,357.5	-313.2	-542.5	-313.2	0.00	0.00	
5,500.0	8.00	240.00	5,456.5	-320.1	-554.5	-320.1	0.00	0.00	
5,600.0	8.00	240.00	5,555.6	-327.1	-566.6	-327.1	0.00	0.00	
5,700.0	8.00	240.00	5,654.6	-334.1	-578.6	-334.1	0.00	0.00	
5,800.0	8.00	240.00	5,753.6	-341.0	-590.7	-341.0	0.00	0.00	Start Drop -1.00
5,900.0	7.00	240.00	5,852.8	-347.5	-602.0	-347.5	1.00	-1.00	
6,000.0	6.00	240.00	5,952.1	-353.2	-611.8	-353.2	1.00	-1.00	
6,100.0	5.00	240.00	6,051.6	-358.0	-620.1	-358.0	1.00	-1.00	
6,200.0	4.00	240.00	6,151.3	-361.9	-626.9	-361.9	1.00	-1.00	
6,300.0	3.00	240.00	6,251.1	-365.0	-632.2	-365.0	1.00	-1.00	
6,359.9	2.40	240.00	6,311.0	-366.4	-634.6	-366.4	1.00	-1.00	Teepee Buttes (*if present)
6,400.0	2.00	240.00	6,351.1	-367.2	-635.9	-367.2	1.00	-1.00	
6,500.0	1.00	240.00	6,451.0	-368.5	-638.2	-368.5	1.00	-1.00	
6,600.0	0.00	0.00	6,551.0	-368.9	-639.0	-368.9	1.00	-1.00	EOD; Inc=0°
6,700.0	0.00	0.00	6,651.0	-368.9	-639.0	-368.9	0.00	0.00	
6,800.0	0.00	0.00	6,751.0	-368.9	-639.0	-368.9	0.00	0.00	
6,900.0	0.00	0.00	6,851.0	-368.9	-639.0	-368.9	0.00	0.00	
7,000.0	0.00	0.00	6,951.0	-368.9	-639.0	-368.9	0.00	0.00	
7,005.0	0.00	0.00	6,956.0	-368.9	-639.0	-368.9	0.00	0.00	Start Build 10.00
7,100.0	9.50	0.67	7,050.6	-361.0	-638.9	-361.0	10.00	10.00	
7,200.0	19.50	0.67	7,147.3	-336.0	-638.6	-336.0	10.00	10.00	
7,239.5	23.44	0.67	7,184.0	-321.6	-638.4	-321.6	10.00	10.00	Sharon Springs
7,300.0	29.50	0.67	7,238.2	-294.6	-638.1	-294.6	10.00	10.00	
7,312.5	30.75	0.67	7,249.0	-288.3	-638.0	-288.3	10.00	10.00	Niobrara
7,370.2	36.52	0.67	7,297.0	-256.4	-637.6	-256.4	10.00	10.00	B Chalk
7,400.0	39.50	0.67	7,320.5	-238.1	-637.4	-238.1	10.00	10.00	
7,411.2	40.61	0.67	7,329.0	-230.9	-637.3	-230.9	10.00	10.00	B Marl
7,469.1	46.41	0.67	7,371.0	-191.0	-636.9	-191.0	10.00	10.00	C Chalk
7,500.0	49.50	0.67	7,391.7	-168.1	-636.6	-168.1	10.00	10.00	
7,598.6	59.36	0.67	7,449.0	-88.0	-635.7	-88.0	10.00	10.00	C Marl
7,600.0	59.50	0.67	7,449.7	-86.8	-635.6	-86.8	10.00	10.00	
7,700.0	69.50	0.67	7,492.7	3.4	-634.6	3.4	10.00	10.00	
7,706.7	70.16	0.67	7,495.0	9.6	-634.5	9.6	10.00	10.00	Ft. Hayes
7,797.8	79.28	0.67	7,519.0	97.4	-633.5	97.4	10.00	10.00	Codell
7,800.0	79.50	0.67	7,519.4	99.6	-633.5	99.6	10.00	10.00	
7,900.0	89.50	0.67	7,529.0	199.0	-632.3	199.0	10.00	10.00	
7,905.0	90.00	0.67	7,529.0	204.0	-632.2	204.0	10.00	10.00	LP @ 7529' TVD; 90°
8,000.0	90.00	0.67	7,529.0	299.0	-631.1	299.0	0.00	0.00	
8,100.0	90.00	0.67	7,529.0	399.0	-630.0	399.0	0.00	0.00	
8,200.0	90.00	0.67	7,529.0	499.0	-628.8	499.0	0.00	0.00	
8,300.0	90.00	0.67	7,529.0	599.0	-627.6	599.0	0.00	0.00	
8,400.0	90.00	0.67	7,529.0	699.0	-626.4	699.0	0.00	0.00	
8,500.0	90.00	0.67	7,529.0	798.9	-625.3	798.9	0.00	0.00	
8,600.0	90.00	0.67	7,529.0	898.9	-624.1	898.9	0.00	0.00	
8,700.0	90.00	0.67	7,529.0	998.9	-622.9	998.9	0.00	0.00	
8,800.0	90.00	0.67	7,529.0	1,098.9	-621.8	1,098.9	0.00	0.00	

Planning Report

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Project:	DJ Wattenberg	MD Reference:	WELL @ 5011.0ft (Original Well Elev)
Site:	S9-T2N-R67W (Sprague)	North Reference:	True
Well:	Sprague 3D-9H-N267	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
8,900.0	90.00	0.67	7,529.0	1,198.9	-620.6	1,198.9	0.00	0.00	
9,000.0	90.00	0.67	7,529.0	1,298.9	-619.4	1,298.9	0.00	0.00	
9,100.0	90.00	0.67	7,529.0	1,398.9	-618.3	1,398.9	0.00	0.00	
9,200.0	90.00	0.67	7,529.0	1,498.9	-617.1	1,498.9	0.00	0.00	
9,300.0	90.00	0.67	7,529.0	1,598.9	-615.9	1,598.9	0.00	0.00	
9,400.0	90.00	0.67	7,529.0	1,698.9	-614.7	1,698.9	0.00	0.00	
9,500.0	90.00	0.67	7,529.0	1,798.9	-613.6	1,798.9	0.00	0.00	
9,600.0	90.00	0.67	7,529.0	1,898.9	-612.4	1,898.9	0.00	0.00	
9,700.0	90.00	0.67	7,529.0	1,998.9	-611.2	1,998.9	0.00	0.00	
9,800.0	90.00	0.67	7,529.0	2,098.9	-610.1	2,098.9	0.00	0.00	
9,900.0	90.00	0.67	7,529.0	2,198.9	-608.9	2,198.9	0.00	0.00	
10,000.0	90.00	0.67	7,529.0	2,298.8	-607.7	2,298.8	0.00	0.00	
10,100.0	90.00	0.67	7,529.0	2,398.8	-606.5	2,398.8	0.00	0.00	
10,200.0	90.00	0.67	7,529.0	2,498.8	-605.4	2,498.8	0.00	0.00	
10,300.0	90.00	0.67	7,529.0	2,598.8	-604.2	2,598.8	0.00	0.00	
10,400.0	90.00	0.67	7,529.0	2,698.8	-603.0	2,698.8	0.00	0.00	
10,500.0	90.00	0.67	7,529.0	2,798.8	-601.9	2,798.8	0.00	0.00	
10,600.0	90.00	0.67	7,529.0	2,898.8	-600.7	2,898.8	0.00	0.00	
10,700.0	90.00	0.67	7,529.0	2,998.8	-599.5	2,998.8	0.00	0.00	
10,800.0	90.00	0.67	7,529.0	3,098.8	-598.3	3,098.8	0.00	0.00	
10,900.0	90.00	0.67	7,529.0	3,198.8	-597.2	3,198.8	0.00	0.00	
10,949.1	90.00	0.67	7,529.0	3,247.9	-596.6	3,247.9	0.00	0.00	Start turn @ 10,949' MD - Sprague 3D-9H-N267
11,000.0	90.00	1.18	7,529.0	3,298.8	-595.8	3,298.8	1.00	0.00	
11,100.0	90.00	2.18	7,529.0	3,398.7	-592.8	3,398.7	1.00	0.00	
11,192.0	90.00	3.10	7,529.0	3,490.6	-588.6	3,490.6	1.00	0.00	End of turn @ 11,192' MD
11,200.0	90.00	3.10	7,529.0	3,498.6	-588.2	3,498.6	0.00	0.00	
11,300.0	90.00	3.10	7,529.0	3,598.5	-582.8	3,598.5	0.00	0.00	
11,400.0	90.00	3.10	7,529.0	3,698.3	-577.4	3,698.3	0.00	0.00	
11,500.0	90.00	3.10	7,529.0	3,798.2	-571.9	3,798.2	0.00	0.00	
11,600.0	90.00	3.10	7,529.0	3,898.0	-566.5	3,898.0	0.00	0.00	
11,700.0	90.00	3.10	7,529.0	3,997.9	-561.1	3,997.9	0.00	0.00	
11,800.0	90.00	3.10	7,529.0	4,097.7	-555.7	4,097.7	0.00	0.00	
11,900.0	90.00	3.10	7,529.0	4,197.6	-550.3	4,197.6	0.00	0.00	
12,000.0	90.00	3.10	7,529.0	4,297.4	-544.9	4,297.4	0.00	0.00	
12,100.0	90.00	3.10	7,529.0	4,397.3	-539.5	4,397.3	0.00	0.00	
12,200.0	90.00	3.10	7,529.0	4,497.2	-534.1	4,497.2	0.00	0.00	
12,300.0	90.00	3.10	7,529.0	4,597.0	-528.7	4,597.0	0.00	0.00	
12,400.0	90.00	3.10	7,529.0	4,696.9	-523.3	4,696.9	0.00	0.00	
12,500.0	90.00	3.10	7,529.0	4,796.7	-517.9	4,796.7	0.00	0.00	
12,600.0	90.00	3.10	7,529.0	4,896.6	-512.5	4,896.6	0.00	0.00	
12,700.0	90.00	3.10	7,529.0	4,996.4	-507.1	4,996.4	0.00	0.00	
12,800.0	90.00	3.10	7,529.0	5,096.3	-501.6	5,096.3	0.00	0.00	
12,876.7	90.00	3.10	7,529.0	5,172.8	-497.5	5,172.8	0.00	0.00	TD at 12876.7 - Sprague 3D-9H-N267 PBHL

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Sprague 3D-9H-N267
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 5011.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 5011.0ft (Original Well Elev)
Site:	S9-T2N-R67W (Sprague)	North Reference:	True
Well:	Sprague 3D-9H-N267	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
Sprague 3D-9H-N267 PI - plan hits target center - Point	0.00	0.00	7,529.0	5,172.8	-497.5	1,302,144.97	3,167,615.99	40.161220	-104.900300
Sprague 3D-9H-N267 T - plan hits target center - Point	0.00	0.00	7,529.0	3,247.9	-596.6	1,300,219.36	3,167,529.94	40.155936	-104.900654

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
461.0	461.0	Fox Hills - BASE				
4,451.3	4,418.0	Sussex				
4,700.7	4,665.0	Sussex Marker				
5,001.6	4,963.0	Shannon				
6,359.9	6,311.0	Teepee Buttes (*if present)				
7,239.5	7,184.0	Sharon Springs				
7,312.5	7,249.0	Niobrara				
7,370.2	7,297.0	B Chalk				
7,411.2	7,329.0	B Marl				
7,469.1	7,371.0	C Chalk				
7,598.6	7,449.0	C Marl				
7,706.7	7,495.0	Ft. Hayes				
7,797.8	7,519.0	Codell				

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'
1,300.0	1,297.4	-27.9	-48.3	EOB; Inc=8°
5,800.0	5,753.6	-341.0	-590.7	Start Drop -1.00
6,600.0	6,551.0	-368.9	-639.0	EOD; Inc=0°
7,005.0	6,956.0	-368.9	-639.0	Start Build 10.00
7,905.0	7,529.0	204.0	-632.2	LP @ 7529' TVD; 90°
10,949.1	7,529.0	3,247.9	-596.6	Start turn @ 10,949' MD
11,192.0	7,529.0	3,490.6	-588.6	End of turn @ 11,192' MD
12,876.7	7,529.0	5,172.8	-497.5	TD at 12876.7

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

S9-T2N-R67W (Sprague)

Sprague 3D-9H-N267

Hz

Plan #1

Anticollision Report

20 November, 2013

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sprague 3D-9H-N267
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5011.0ft (Original Well Elev)
Reference Site:	S9-T2N-R67W (Sprague)	MD Reference:	WELL @ 5011.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Sprague 3D-9H-N267	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:	Stations	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	11/20/2013		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.0	12,875.8	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						
S9-T2N-R67W (Sprague)						
Sprague 21-9 - DD - Plan #1						Out of range
SPRAGUE 2-4-9 (EXISTING) - ENCANA WELL - SURVE	9,739.9	7,577.4	132.7	76.5	2.361	CC, ES, SF
Sprague 3A-9H-N267 - Hz - Plan #1	200.0	200.0	30.8	30.2	51.820	CC, ES
Sprague 3A-9H-N267 - Hz - Plan #1	4,800.0	4,762.7	496.9	478.5	27.086	SF
Sprague 3B-9H-N267 - Hz - Plan #1	300.0	300.0	19.6	18.6	20.763	CC, ES
Sprague 3B-9H-N267 - Hz - Plan #1	5,800.0	5,785.8	304.1	282.0	13.742	SF
Sprague 3C-9H-N267 - Hz - Plan #1	400.0	400.0	11.2	9.9	8.658	CC, ES
Sprague 3C-9H-N267 - Hz - Plan #1	12,876.7	12,785.9	413.9	255.9	2.619	SF
Sprague 3E-9H-N267 - Hz - Plan #1	371.1	371.1	8.0	6.8	6.701	CC
Sprague 3E-9H-N267 - Hz - Plan #1	400.0	400.0	8.0	6.7	6.216	ES
Sprague 3E-9H-N267 - Hz - Plan #1	12,876.7	12,758.2	413.9	255.7	2.616	SF
Sprague 3F-9H-N267 - Hz - Plan #1	500.0	500.0	19.6	17.9	11.928	CC, ES
Sprague 3F-9H-N267 - Hz - Plan #1	700.0	699.7	23.9	21.5	10.195	SF
Sprague 3G-9H-N267 - Hz - Plan #1	400.0	400.0	30.8	29.5	23.809	CC, ES
Sprague 3G-9H-N267 - Hz - Plan #1	700.0	698.5	39.6	37.2	16.895	SF
Sprague 3H-9H-N267 - Hz - Plan #1	400.0	400.0	39.1	37.8	30.303	CC, ES
Sprague 3H-9H-N267 - Hz - Plan #1	600.0	597.4	45.9	43.9	23.059	SF
Sprague 3I-9H-N267 - Hz - Plan #1	300.0	300.0	50.4	49.5	53.528	CC, ES
Sprague 3I-9H-N267 - Hz - Plan #1	600.0	594.0	65.9	63.9	33.214	SF
Sprague 3J-9H-N267 - Hz - Plan #1	200.0	200.0	58.8	58.2	99.117	CC, ES
Sprague 3J-9H-N267 - Hz - Plan #1	500.0	493.2	73.7	72.0	43.459	SF

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sprague 3D-9H-N267
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5011.0ft (Original Well Elev)
Reference Site:	S9-T2N-R67W (Sprague)	MD Reference:	WELL @ 5011.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Sprague 3D-9H-N267	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 S9-T2N-R67W (Sprague) - SPRAGUE 2-4-9 (EXISTING) - ENCANA WELL - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 488-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			
9,300.0	7,529.0	7,561.3	7,494.4	34.4	19.2	84.58	2,036.5	-477.7	459.1	410.3	48.85	9.398		
9,400.0	7,529.0	7,564.8	7,497.8	35.9	19.2	86.06	2,036.7	-477.8	364.6	314.1	50.55	7.213		
9,500.0	7,529.0	7,568.4	7,501.4	37.4	19.2	87.59	2,036.8	-477.9	274.0	221.7	52.23	5.245		
9,600.0	7,529.0	7,572.1	7,505.1	39.0	19.2	89.18	2,037.0	-478.0	192.7	138.8	53.90	3.575		
9,700.0	7,529.0	7,575.9	7,508.9	40.6	19.2	90.83	2,037.1	-478.1	138.5	83.0	55.55	2.494		
9,739.9	7,529.0	7,577.4	7,510.5	41.2	19.2	91.50	2,037.2	-478.1	132.7	76.5	56.19	2.361 CC, ES, SF		
9,800.0	7,529.0	7,579.8	7,512.9	42.2	19.2	92.53	2,037.3	-478.2	145.6	88.5	57.16	2.548		
9,900.0	7,529.0	7,583.9	7,516.9	43.8	19.2	94.28	2,037.5	-478.3	207.8	149.1	58.72	3.539		
10,000.0	7,529.0	7,588.1	7,521.1	45.4	19.2	96.09	2,037.6	-478.4	291.8	231.6	60.24	4.844		
10,100.0	7,529.0	7,592.4	7,525.5	47.0	19.3	97.95	2,037.8	-478.5	383.5	321.8	61.68	6.217		
10,200.0	7,529.0	7,597.0	7,530.0	48.6	19.3	99.86	2,038.0	-478.6	478.5	415.4	63.06	7.588		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sprague 3D-9H-N267
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5011.0ft (Original Well Elev)
Reference Site:	S9-T2N-R67W (Sprague)	MD Reference:	WELL @ 5011.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Sprague 3D-9H-N267	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 S9-T2N-R67W (Sprague) - Sprague 3A-9H-N267 - 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				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	-89.95	0.0	-30.8	30.8					
100.0	100.0	100.0	100.0	0.1	0.1	-89.95	0.0	-30.8	30.8	30.5	0.24	125.848		
200.0	200.0	200.0	200.0	0.3	0.3	-89.95	0.0	-30.8	30.8	30.2	0.59	51.820 CC, ES		
300.0	300.0	299.0	298.9	0.5	0.5	-90.95	-0.5	-32.4	32.4	31.4	0.94	34.365		
400.0	400.0	397.7	397.5	0.6	0.7	-93.43	-2.2	-37.2	37.3	36.0	1.30	28.724		
500.0	500.0	495.9	495.4	0.8	0.9	-96.34	-5.0	-45.2	45.7	44.0	1.68	27.267		
600.0	600.0	593.6	592.4	1.0	1.2	21.29	-8.9	-56.2	56.6	54.6	1.98	28.533		
700.0	700.0	690.7	688.3	1.2	1.5	19.73	-13.8	-70.3	69.4	67.0	2.33	29.746		
800.0	799.9	787.1	783.0	1.4	1.8	18.70	-19.8	-87.3	83.8	81.1	2.68	31.286		
900.0	899.7	883.3	876.8	1.5	2.2	18.02	-26.7	-107.3	99.8	96.8	3.03	33.000		
1,000.0	999.4	982.1	973.0	1.8	2.6	17.70	-34.3	-128.8	115.4	112.0	3.38	34.144		
1,100.0	1,098.9	1,081.1	1,069.3	2.0	3.1	17.69	-41.8	-150.3	129.3	125.6	3.74	34.600		
1,200.0	1,198.3	1,180.3	1,165.9	2.2	3.5	17.89	-49.4	-171.9	141.6	137.5	4.10	34.534		
1,300.0	1,297.4	1,279.8	1,262.6	2.5	3.9	18.27	-56.9	-193.6	152.2	147.7	4.47	34.063		
1,400.0	1,396.4	1,379.3	1,359.5	2.7	4.4	18.72	-64.5	-215.2	162.0	157.1	4.84	33.447		
1,500.0	1,495.5	1,478.8	1,456.3	3.0	4.8	19.13	-72.1	-236.9	171.8	166.5	5.22	32.902		
1,600.0	1,594.5	1,578.3	1,553.1	3.3	5.2	19.49	-79.7	-258.5	181.6	176.0	5.60	32.417		
1,700.0	1,693.5	1,677.8	1,650.0	3.6	5.7	19.81	-87.2	-280.2	191.4	185.4	5.98	31.981		
1,800.0	1,792.5	1,777.3	1,746.8	3.9	6.1	20.10	-94.8	-301.9	201.2	194.9	6.37	31.589		
1,900.0	1,891.6	1,876.8	1,843.6	4.2	6.6	20.36	-102.4	-323.5	211.1	204.3	6.76	31.233		
2,000.0	1,990.6	1,976.3	1,940.4	4.4	7.0	20.60	-110.0	-345.2	220.9	213.7	7.15	30.909		
2,100.0	2,089.6	2,075.9	2,037.3	4.7	7.5	20.82	-117.6	-366.8	230.7	223.2	7.54	30.613		
2,200.0	2,188.6	2,175.4	2,134.1	5.0	7.9	21.02	-125.1	-388.5	240.6	232.6	7.93	30.341		
2,300.0	2,287.7	2,274.9	2,230.9	5.3	8.3	21.21	-132.7	-410.1	250.4	242.1	8.32	30.091		
2,400.0	2,386.7	2,374.4	2,327.8	5.6	8.8	21.38	-140.3	-431.8	260.2	251.5	8.72	29.860		
2,500.0	2,485.7	2,473.9	2,424.6	5.9	9.2	21.54	-147.9	-453.5	270.1	261.0	9.11	29.646		
2,600.0	2,584.8	2,573.4	2,521.4	6.2	9.7	21.69	-155.4	-475.1	279.9	270.4	9.51	29.447		
2,700.0	2,683.8	2,672.9	2,618.2	6.5	10.1	21.83	-163.0	-496.8	289.8	279.9	9.90	29.261		
2,800.0	2,782.8	2,772.4	2,715.1	6.8	10.6	21.95	-170.6	-518.4	299.6	289.3	10.30	29.089		
2,900.0	2,881.8	2,872.0	2,811.9	7.1	11.0	22.08	-178.2	-540.1	309.5	298.8	10.70	28.927		
3,000.0	2,980.9	2,971.5	2,908.7	7.4	11.4	22.19	-185.7	-561.8	319.4	308.3	11.10	28.775		
3,100.0	3,079.9	3,071.0	3,005.6	7.7	11.9	22.30	-193.3	-583.4	329.2	317.7	11.50	28.633		
3,200.0	3,178.9	3,170.5	3,102.4	8.0	12.3	22.40	-200.9	-605.1	339.1	327.2	11.90	28.499		
3,300.0	3,277.9	3,270.0	3,199.2	8.3	12.8	22.49	-208.5	-626.7	348.9	336.6	12.30	28.372		
3,400.0	3,377.0	3,369.5	3,296.1	8.6	13.2	22.58	-216.1	-648.4	358.8	346.1	12.70	28.253		
3,500.0	3,476.0	3,469.0	3,392.9	8.9	13.7	22.66	-223.6	-670.1	368.6	355.5	13.10	28.140		
3,600.0	3,575.0	3,568.5	3,489.7	9.2	14.1	22.74	-231.2	-691.7	378.5	365.0	13.50	28.033		
3,700.0	3,674.0	3,668.0	3,586.5	9.5	14.6	22.82	-238.8	-713.4	388.4	374.5	13.90	27.932		
3,800.0	3,773.1	3,767.6	3,683.4	9.8	15.0	22.89	-246.4	-735.0	398.2	383.9	14.31	27.836		
3,900.0	3,872.1	3,867.1	3,780.2	10.1	15.4	22.96	-253.9	-756.7	408.1	393.4	14.71	27.744		
4,000.0	3,971.1	3,966.6	3,877.0	10.4	15.9	23.03	-261.5	-778.4	418.0	402.8	15.11	27.657		
4,100.0	4,070.2	4,066.1	3,973.9	10.7	16.3	23.09	-269.1	-800.0	427.8	412.3	15.52	27.574		
4,200.0	4,169.2	4,165.6	4,070.7	11.0	16.8	23.15	-276.7	-821.7	437.7	421.8	15.92	27.495		
4,300.0	4,268.2	4,265.1	4,167.5	11.3	17.2	23.21	-284.3	-843.3	447.5	431.2	16.32	27.419		
4,400.0	4,367.2	4,364.6	4,264.4	11.6	17.7	23.26	-291.8	-865.0	457.4	440.7	16.73	27.347		
4,500.0	4,466.3	4,464.1	4,361.2	11.9	18.1	23.31	-299.4	-886.7	467.3	450.1	17.13	27.277		
4,600.0	4,565.3	4,563.6	4,458.0	12.2	18.6	23.36	-307.0	-908.3	477.1	459.6	17.53	27.211		
4,700.0	4,664.3	4,663.2	4,554.8	12.5	19.0	23.41	-314.6	-930.0	487.0	469.1	17.94	27.147		
4,800.0	4,763.3	4,762.7	4,651.7	12.8	19.4	23.46	-322.1	-951.6	496.9	478.5	18.34	27.086 SF		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sprague 3D-9H-N267
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5011.0ft (Original Well Elev)
Reference Site:	S9-T2N-R67W (Sprague)	MD Reference:	WELL @ 5011.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Sprague 3D-9H-N267	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 S9-T2N-R67W (Sprague) - Sprague 3B-9H-N267 - 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	-89.95	0.0	-19.6	19.6					
100.0	100.0	100.0	100.0	0.1	0.1	-89.95	0.0	-19.6	19.6	19.3	0.24	80.085		
200.0	200.0	200.0	200.0	0.3	0.3	-89.95	0.0	-19.6	19.6	19.0	0.59	32.976		
300.0	300.0	300.0	300.0	0.5	0.5	-89.95	0.0	-19.6	19.6	18.6	0.94	20.763	CC, ES	
400.0	400.0	399.3	399.3	0.6	0.6	-91.83	-0.7	-21.1	21.2	19.9	1.29	16.390		
500.0	500.0	498.4	498.3	0.8	0.8	-96.06	-2.7	-25.9	26.1	24.4	1.65	15.823		
600.0	600.0	597.2	596.6	1.0	1.1	20.08	-6.2	-33.7	33.6	31.6	1.99	16.885		
700.0	700.0	695.4	694.2	1.2	1.3	17.44	-10.9	-44.5	42.9	40.6	2.34	18.354		
800.0	799.9	793.2	790.7	1.4	1.6	15.64	-17.0	-58.3	54.0	51.3	2.68	20.095		
900.0	899.7	891.9	887.8	1.5	1.9	14.50	-24.1	-74.6	65.9	62.9	3.03	21.717		
1,000.0	999.4	991.3	985.6	1.8	2.3	13.99	-31.4	-91.1	76.3	72.9	3.39	22.540		
1,100.0	1,098.9	1,091.0	1,083.6	2.0	2.6	13.88	-38.7	-107.7	85.1	81.3	3.74	22.745		
1,200.0	1,198.3	1,190.7	1,181.7	2.2	3.0	14.06	-45.9	-124.2	92.1	88.0	4.10	22.487		
1,300.0	1,297.4	1,290.6	1,279.9	2.5	3.3	14.46	-53.2	-140.8	97.5	93.1	4.46	21.871		
1,400.0	1,396.4	1,390.4	1,378.1	2.7	3.7	14.95	-60.5	-157.4	102.1	97.2	4.83	21.144		
1,500.0	1,495.5	1,490.3	1,476.4	3.0	4.0	15.41	-67.8	-174.0	106.6	101.4	5.20	20.512		
1,600.0	1,594.5	1,590.2	1,574.6	3.3	4.4	15.83	-75.1	-190.6	111.1	105.6	5.57	19.956		
1,700.0	1,693.5	1,690.1	1,672.8	3.6	4.8	16.21	-82.4	-207.2	115.7	109.8	5.94	19.464		
1,800.0	1,792.5	1,790.0	1,771.1	3.9	5.1	16.57	-89.6	-223.8	120.3	113.9	6.32	19.025		
1,900.0	1,891.6	1,889.9	1,869.3	4.2	5.5	16.90	-96.9	-240.4	124.8	118.1	6.70	18.631		
2,000.0	1,990.6	1,989.8	1,967.6	4.4	5.8	17.20	-104.2	-257.0	129.4	122.3	7.08	18.275		
2,100.0	2,089.6	2,089.7	2,065.8	4.7	6.2	17.49	-111.5	-273.5	134.0	126.5	7.46	17.952		
2,200.0	2,188.6	2,189.6	2,164.0	5.0	6.6	17.76	-118.8	-290.1	138.5	130.7	7.85	17.657		
2,300.0	2,287.7	2,289.5	2,262.3	5.3	6.9	18.01	-126.1	-306.7	143.1	134.9	8.23	17.388		
2,400.0	2,386.7	2,389.4	2,360.5	5.6	7.3	18.24	-133.3	-323.3	147.7	139.1	8.62	17.140		
2,500.0	2,485.7	2,489.3	2,458.7	5.9	7.7	18.46	-140.6	-339.9	152.3	143.3	9.00	16.911		
2,600.0	2,584.8	2,589.2	2,557.0	6.2	8.0	18.67	-147.9	-356.5	156.9	147.5	9.39	16.700		
2,700.0	2,683.8	2,689.1	2,655.2	6.5	8.4	18.86	-155.2	-373.1	161.4	151.7	9.78	16.504		
2,800.0	2,782.8	2,789.0	2,753.4	6.8	8.7	19.05	-162.5	-389.7	166.0	155.9	10.17	16.322		
2,900.0	2,881.8	2,888.8	2,851.7	7.1	9.1	19.22	-169.8	-406.3	170.6	160.1	10.56	16.151		
3,000.0	2,980.9	2,988.7	2,949.9	7.4	9.5	19.39	-177.0	-422.9	175.2	164.3	10.96	15.992		
3,100.0	3,079.9	3,088.6	3,048.1	7.7	9.8	19.54	-184.3	-439.5	179.8	168.5	11.35	15.843		
3,200.0	3,178.9	3,188.5	3,146.4	8.0	10.2	19.69	-191.6	-456.0	184.4	172.7	11.74	15.704		
3,300.0	3,277.9	3,288.4	3,244.6	8.3	10.6	19.84	-198.9	-472.6	189.0	176.9	12.14	15.572		
3,400.0	3,377.0	3,388.3	3,342.9	8.6	10.9	19.97	-206.2	-489.2	193.6	181.1	12.53	15.448		
3,500.0	3,476.0	3,488.2	3,441.1	8.9	11.3	20.10	-213.5	-505.8	198.2	185.3	12.93	15.331		
3,600.0	3,575.0	3,588.1	3,539.3	9.2	11.7	20.22	-220.8	-522.4	202.8	189.5	13.32	15.220		
3,700.0	3,674.0	3,688.0	3,637.6	9.5	12.0	20.34	-228.0	-539.0	207.4	193.7	13.72	15.116		
3,800.0	3,773.1	3,787.9	3,735.8	9.8	12.4	20.45	-235.3	-555.6	212.0	197.9	14.12	15.016		
3,900.0	3,872.1	3,887.8	3,834.0	10.1	12.7	20.56	-242.6	-572.2	216.6	202.1	14.51	14.922		
4,000.0	3,971.1	3,987.7	3,932.3	10.4	13.1	20.66	-249.9	-588.8	221.2	206.3	14.91	14.832		
4,100.0	4,070.2	4,087.6	4,030.5	10.7	13.5	20.76	-257.2	-605.4	225.8	210.5	15.31	14.747		
4,200.0	4,169.2	4,187.5	4,128.7	11.0	13.8	20.86	-264.5	-622.0	230.4	214.7	15.71	14.666		
4,300.0	4,268.2	4,287.4	4,227.0	11.3	14.2	20.95	-271.7	-638.5	235.0	218.9	16.11	14.588		
4,400.0	4,367.2	4,387.2	4,325.2	11.6	14.6	21.04	-279.0	-655.1	239.6	223.1	16.51	14.514		
4,500.0	4,466.3	4,487.1	4,423.5	11.9	14.9	21.12	-286.3	-671.7	244.2	227.3	16.91	14.443		
4,600.0	4,565.3	4,587.0	4,521.7	12.2	15.3	21.20	-293.6	-688.3	248.8	231.5	17.31	14.375		
4,700.0	4,664.3	4,686.9	4,619.9	12.5	15.7	21.28	-300.9	-704.9	253.4	235.7	17.71	14.310		
4,800.0	4,763.3	4,786.8	4,718.2	12.8	16.0	21.36	-308.2	-721.5	258.0	239.9	18.11	14.248		
4,900.0	4,862.4	4,886.7	4,816.4	13.1	16.4	21.43	-315.5	-738.1	262.6	244.1	18.51	14.188		
5,000.0	4,961.4	4,986.6	4,914.6	13.4	16.8	21.50	-322.7	-754.7	267.2	248.3	18.91	14.131		
5,100.0	5,060.4	5,086.5	5,012.9	13.7	17.1	21.57	-330.0	-771.3	271.8	252.5	19.31	14.076		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sprague 3D-9H-N267
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5011.0ft (Original Well Elev)
Reference Site:	S9-T2N-R67W (Sprague)	MD Reference:	WELL @ 5011.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Sprague 3D-9H-N267	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 S9-T2N-R67W (Sprague) - Sprague 3B-9H-N267 - 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		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	Separation Factor		
5,200.0	5,159.4	5,186.4	5,111.1	14.0	17.5	21.64	-337.3	-787.9	276.5	256.7	19.71	14.023		
5,300.0	5,258.5	5,286.3	5,209.3	14.3	17.9	21.70	-344.6	-804.5	281.1	260.9	20.12	13.972		
5,400.0	5,357.5	5,386.2	5,307.6	14.5	18.2	21.76	-351.9	-821.1	285.7	265.1	20.52	13.922		
5,500.0	5,456.5	5,486.1	5,405.8	14.8	18.6	21.82	-359.2	-837.6	290.3	269.4	20.92	13.875		
5,600.0	5,555.6	5,586.0	5,504.1	15.1	18.9	21.88	-366.4	-854.2	294.9	273.6	21.32	13.829		
5,700.0	5,654.6	5,685.9	5,602.3	15.4	19.3	21.93	-373.7	-870.8	299.5	277.8	21.73	13.785		
5,800.0	5,753.6	5,785.8	5,700.5	15.7	19.7	21.99	-381.0	-887.4	304.1	282.0	22.13	13.742 SF		
5,900.0	5,852.8	5,885.6	5,798.7	16.0	20.0	22.00	-388.3	-904.0	309.5	287.0	22.51	13.748		
6,000.0	5,952.1	5,985.4	5,896.8	16.3	20.4	21.90	-395.6	-920.6	316.6	293.7	22.87	13.842		
6,100.0	6,051.6	6,085.0	5,994.8	16.5	20.8	21.70	-402.8	-937.1	325.2	302.0	23.19	14.022		
6,200.0	6,151.3	6,184.4	6,092.6	16.7	21.1	21.40	-410.1	-953.6	335.5	312.0	23.49	14.283		
6,300.0	6,251.1	6,283.7	6,190.2	16.9	21.5	21.03	-417.3	-970.1	347.4	323.6	23.76	14.621		
6,400.0	6,351.1	6,382.7	6,287.6	17.1	21.9	20.59	-424.5	-986.6	360.9	336.9	24.01	15.034		
6,500.0	6,451.0	6,481.5	6,384.7	17.2	22.2	20.10	-431.7	-1,003.0	376.1	351.9	24.24	15.518		
6,600.0	6,551.0	6,580.0	6,481.6	17.3	22.6	-100.43	-438.9	-1,019.3	393.0	368.6	24.32	16.157		
6,700.0	6,651.0	6,678.3	6,578.3	17.4	22.9	-101.01	-446.1	-1,035.7	410.6	386.1	24.56	16.720		
6,800.0	6,751.0	6,776.7	6,675.0	17.5	23.3	-101.54	-453.3	-1,052.0	428.4	403.6	24.81	17.266		
6,900.0	6,851.0	6,875.0	6,771.7	17.7	23.7	-102.03	-460.4	-1,068.3	446.1	421.1	25.07	17.796		
7,005.0	6,956.0	6,978.3	6,873.3	17.8	24.0	-102.51	-468.0	-1,085.5	464.8	439.5	25.35	18.335		
7,050.0	7,001.0	7,022.3	6,916.6	17.8	24.2	-102.75	-471.2	-1,092.8	473.2	447.6	25.65	18.446		
7,100.0	7,050.6	7,080.9	6,974.3	17.8	24.4	-102.59	-473.1	-1,102.5	483.1	457.3	25.78	18.737		
7,150.0	7,099.5	7,142.1	7,034.5	17.8	24.5	-102.34	-468.7	-1,112.7	492.8	466.9	25.89	19.034		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sprague 3D-9H-N267
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5011.0ft (Original Well Elev)
Reference Site:	S9-T2N-R67W (Sprague)	MD Reference:	WELL @ 5011.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Sprague 3D-9H-N267	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 S9-T2N-R67W (Sprague) - Sprague 3C-9H-N267 - 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	-89.96	0.0	-11.2	11.2					
100.0	100.0	100.0	100.0	0.1	0.1	-89.96	0.0	-11.2	11.2	10.9	0.24	45.763		
200.0	200.0	200.0	200.0	0.3	0.3	-89.96	0.0	-11.2	11.2	10.6	0.59	18.844		
300.0	300.0	300.0	300.0	0.5	0.5	-89.96	0.0	-11.2	11.2	10.2	0.94	11.864		
400.0	400.0	400.0	400.0	0.6	0.6	-89.96	0.0	-11.2	11.2	9.9	1.29	8.658 CC, ES		
500.0	500.0	499.8	499.8	0.8	0.8	-92.19	-0.5	-11.9	11.9	10.3	1.64	7.271		
600.0	600.0	599.6	599.6	1.0	1.0	23.95	-1.9	-14.1	13.4	11.5	1.99	6.757		
700.0	700.0	699.4	699.2	1.2	1.2	20.64	-4.2	-17.8	15.0	12.6	2.34	6.404		
800.0	799.9	799.1	798.8	1.4	1.4	17.73	-7.4	-22.9	16.5	13.8	2.69	6.146		
900.0	899.7	898.8	898.2	1.5	1.6	15.12	-11.6	-29.5	18.1	15.1	3.04	5.951		
1,000.0	999.4	998.5	997.4	1.8	1.8	12.73	-16.7	-37.6	19.7	16.3	3.39	5.800		
1,100.0	1,098.9	1,098.1	1,096.4	2.0	2.0	10.51	-22.7	-47.1	21.2	17.5	3.74	5.681		
1,200.0	1,198.3	1,197.7	1,195.1	2.2	2.3	8.44	-29.6	-58.0	22.8	18.7	4.09	5.588		
1,300.0	1,297.4	1,297.4	1,293.8	2.5	2.6	6.50	-37.5	-70.4	24.4	19.9	4.43	5.498		
1,400.0	1,396.4	1,397.4	1,392.6	2.7	2.9	4.83	-45.5	-83.2	25.5	20.7	4.78	5.332		
1,500.0	1,495.5	1,497.4	1,491.5	3.0	3.2	3.30	-53.6	-95.9	26.6	21.5	5.13	5.193		
1,600.0	1,594.5	1,597.4	1,590.3	3.3	3.5	1.90	-61.7	-108.7	27.8	22.3	5.47	5.075		
1,700.0	1,693.5	1,697.4	1,689.1	3.6	3.8	0.61	-69.8	-121.4	29.0	23.1	5.82	4.974		
1,800.0	1,792.5	1,797.4	1,788.0	3.9	4.1	-0.58	-77.8	-134.2	30.1	24.0	6.17	4.885		
1,900.0	1,891.6	1,897.4	1,886.8	4.2	4.4	-1.68	-85.9	-147.0	31.3	24.8	6.52	4.807		
2,000.0	1,990.6	1,997.4	1,985.7	4.4	4.7	-2.70	-94.0	-159.7	32.6	25.7	6.87	4.737		
2,100.0	2,089.6	2,097.3	2,084.5	4.7	5.0	-3.64	-102.1	-172.5	33.8	26.6	7.23	4.674		
2,200.0	2,188.6	2,197.3	2,183.4	5.0	5.3	-4.52	-110.1	-185.3	35.0	27.4	7.58	4.617		
2,300.0	2,287.7	2,297.3	2,282.2	5.3	5.6	-5.33	-118.2	-198.0	36.2	28.3	7.94	4.564		
2,400.0	2,386.7	2,397.3	2,381.0	5.6	5.9	-6.10	-126.3	-210.8	37.5	29.2	8.30	4.516		
2,500.0	2,485.7	2,497.3	2,479.9	5.9	6.3	-6.81	-134.4	-223.6	38.7	30.1	8.66	4.472		
2,600.0	2,584.8	2,597.3	2,578.7	6.2	6.6	-7.48	-142.4	-236.3	40.0	31.0	9.03	4.430		
2,700.0	2,683.8	2,697.3	2,677.6	6.5	6.9	-8.11	-150.5	-249.1	41.3	31.9	9.39	4.392		
2,800.0	2,782.8	2,797.3	2,776.4	6.8	7.2	-8.70	-158.6	-261.8	42.5	32.8	9.76	4.355		
2,900.0	2,881.8	2,897.3	2,875.3	7.1	7.5	-9.26	-166.7	-274.6	43.8	33.7	10.13	4.321		
3,000.0	2,980.9	2,997.3	2,974.1	7.4	7.8	-9.78	-174.8	-287.4	45.1	34.6	10.50	4.290		
3,100.0	3,079.9	3,097.3	3,073.0	7.7	8.1	-10.28	-182.8	-300.1	46.3	35.5	10.88	4.259		
3,200.0	3,178.9	3,197.3	3,171.8	8.0	8.5	-10.75	-190.9	-312.9	47.6	36.4	11.25	4.231		
3,300.0	3,277.9	3,297.2	3,270.6	8.3	8.8	-11.19	-199.0	-325.7	48.9	37.3	11.63	4.204		
3,400.0	3,377.0	3,397.2	3,369.5	8.6	9.1	-11.62	-207.1	-338.4	50.2	38.2	12.01	4.178		
3,500.0	3,476.0	3,497.2	3,468.3	8.9	9.4	-12.02	-215.1	-351.2	51.5	39.1	12.39	4.154		
3,600.0	3,575.0	3,597.2	3,567.2	9.2	9.7	-12.40	-223.2	-363.9	52.8	40.0	12.77	4.131		
3,700.0	3,674.0	3,697.2	3,666.0	9.5	10.0	-12.76	-231.3	-376.7	54.1	40.9	13.16	4.109		
3,800.0	3,773.1	3,797.2	3,764.9	9.8	10.4	-13.11	-239.4	-389.5	55.4	41.8	13.54	4.088		
3,900.0	3,872.1	3,897.2	3,863.7	10.1	10.7	-13.44	-247.4	-402.2	56.7	42.7	13.93	4.068		
4,000.0	3,971.1	3,997.2	3,962.5	10.4	11.0	-13.76	-255.5	-415.0	58.0	43.6	14.31	4.049		
4,100.0	4,070.2	4,097.2	4,061.4	10.7	11.3	-14.06	-263.6	-427.8	59.3	44.6	14.70	4.030		
4,200.0	4,169.2	4,197.2	4,160.2	11.0	11.6	-14.35	-271.7	-440.5	60.6	45.5	15.09	4.013		
4,300.0	4,268.2	4,297.2	4,259.1	11.3	11.9	-14.63	-279.7	-453.3	61.9	46.4	15.48	3.996		
4,400.0	4,367.2	4,397.1	4,357.9	11.6	12.3	-14.89	-287.8	-466.1	63.2	47.3	15.87	3.979		
4,500.0	4,466.3	4,497.1	4,456.8	11.9	12.6	-15.15	-295.9	-478.8	64.5	48.2	16.26	3.964		
4,600.0	4,565.3	4,597.1	4,555.6	12.2	12.9	-15.39	-304.0	-491.6	65.8	49.1	16.66	3.949		
4,700.0	4,664.3	4,697.1	4,654.5	12.5	13.2	-15.63	-312.0	-504.3	67.1	50.0	17.05	3.935		
4,800.0	4,763.3	4,797.1	4,753.3	12.8	13.5	-15.85	-320.1	-517.1	68.4	51.0	17.45	3.921		
4,900.0	4,862.4	4,897.1	4,852.1	13.1	13.8	-16.07	-328.2	-529.9	69.7	51.9	17.84	3.907		
5,000.0	4,961.4	4,997.1	4,951.0	13.4	14.2	-16.28	-336.3	-542.6	71.0	52.8	18.24	3.894		
5,100.0	5,060.4	5,097.1	5,049.8	13.7	14.5	-16.48	-344.4	-555.4	72.3	53.7	18.63	3.882		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sprague 3D-9H-N267
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5011.0ft (Original Well Elev)
Reference Site:	S9-T2N-R67W (Sprague)	MD Reference:	WELL @ 5011.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Sprague 3D-9H-N267	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 S9-T2N-R67W (Sprague) - Sprague 3C-9H-N267 - 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				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)				
5,200.0	5,159.4	5,197.1	5,148.7	14.0	14.8	-16.68	-352.4	-568.2	73.6	54.6	19.03	3.870		
5,300.0	5,258.5	5,297.1	5,247.5	14.3	15.1	-16.86	-360.5	-580.9	75.0	55.5	19.43	3.858		
5,400.0	5,357.5	5,397.1	5,346.4	14.5	15.4	-17.04	-368.6	-593.7	76.3	56.5	19.83	3.847		
5,500.0	5,456.5	5,497.0	5,445.2	14.8	15.7	-17.22	-376.7	-606.5	77.6	57.4	20.23	3.836		
5,600.0	5,555.6	5,597.0	5,544.0	15.1	16.1	-17.39	-384.7	-619.2	78.9	58.3	20.62	3.826		
5,700.0	5,654.6	5,697.0	5,642.9	15.4	16.4	-17.55	-392.8	-632.0	80.2	59.2	21.02	3.816		
5,800.0	5,753.6	5,797.0	5,741.7	15.7	16.7	-17.71	-400.9	-644.7	81.5	60.1	21.42	3.806		
5,900.0	5,852.8	5,897.0	5,840.6	16.0	17.0	-17.69	-409.0	-657.5	83.7	61.9	21.80	3.840		
6,000.0	5,952.1	5,996.9	5,939.3	16.3	17.3	-17.32	-417.0	-670.3	87.5	65.4	22.11	3.957		
6,100.0	6,051.6	6,096.8	6,038.0	16.5	17.6	-16.68	-425.1	-683.0	93.0	70.6	22.38	4.155		
6,200.0	6,151.3	6,196.5	6,136.6	16.7	18.0	-15.84	-433.2	-695.7	100.2	77.6	22.61	4.430		
6,300.0	6,251.1	6,296.1	6,235.1	16.9	18.3	-14.88	-441.2	-708.4	109.0	86.2	22.83	4.777		
6,400.0	6,351.1	6,395.5	6,333.3	17.1	18.6	-13.86	-449.2	-721.1	119.6	96.6	23.03	5.194		
6,500.0	6,451.0	6,494.7	6,431.4	17.2	18.9	-12.85	-457.2	-733.8	131.9	108.7	23.23	5.678		
6,600.0	6,551.0	6,593.7	6,529.3	17.3	19.2	-131.87	-465.2	-746.4	146.0	122.4	23.52	6.207		
6,700.0	6,651.0	6,692.5	6,627.0	17.4	19.5	-130.98	-473.2	-759.1	160.9	137.1	23.77	6.770		
6,800.0	6,751.0	6,799.2	6,732.5	17.5	19.9	-129.83	-480.4	-772.7	175.1	151.1	24.02	7.291		
6,900.0	6,851.0	6,920.8	6,852.3	17.7	20.0	-123.84	-468.9	-788.1	179.6	155.6	24.03	7.474		
7,005.0	6,956.0	7,038.1	6,963.1	17.8	20.1	-111.69	-433.9	-802.5	176.1	151.5	24.56	7.170		
7,046.4	6,997.4	7,080.4	7,001.0	17.8	20.0	-106.75	-415.8	-807.3	175.3	150.1	25.18	6.961		
7,050.0	7,001.0	7,084.0	7,004.2	17.8	20.0	-106.26	-414.1	-807.8	175.3	150.0	25.24	6.944		
7,100.0	7,050.6	7,133.3	7,046.4	17.8	20.0	-99.51	-389.3	-813.2	176.7	150.5	26.19	6.746		
7,150.0	7,099.5	7,180.9	7,085.0	17.8	19.9	-92.95	-361.9	-818.2	180.4	153.1	27.24	6.621		
7,200.0	7,147.3	7,227.0	7,120.1	17.8	19.9	-86.72	-332.3	-822.7	186.2	158.0	28.23	6.595		
7,250.0	7,193.6	7,271.8	7,151.8	17.7	19.8	-80.91	-301.0	-826.8	193.7	164.7	29.01	6.678		
7,300.0	7,238.2	7,315.4	7,180.3	17.6	19.8	-75.57	-268.1	-830.5	202.7	173.2	29.49	6.872		
7,350.0	7,280.5	7,358.1	7,205.7	17.6	19.7	-70.74	-234.1	-833.8	212.6	182.9	29.64	7.172		
7,400.0	7,320.5	7,400.0	7,228.1	17.5	19.7	-66.39	-198.8	-836.7	223.1	193.6	29.46	7.573		
7,450.0	7,357.6	7,440.6	7,247.4	17.4	19.7	-62.55	-163.0	-839.2	234.0	205.0	28.99	8.070		
7,500.0	7,391.7	7,480.8	7,263.9	17.4	19.7	-59.13	-126.5	-841.3	244.9	216.6	28.29	8.655		
7,550.0	7,422.5	7,520.4	7,277.6	17.3	19.7	-56.10	-89.5	-843.1	255.6	228.2	27.44	9.317		
7,600.0	7,449.7	7,559.4	7,288.6	17.3	19.7	-53.44	-52.1	-844.5	266.0	239.6	26.47	10.051		
7,650.0	7,473.2	7,600.0	7,297.4	17.4	19.8	-51.02	-12.4	-845.6	275.9	250.3	25.58	10.787		
7,700.0	7,492.7	7,635.9	7,302.8	17.4	19.9	-49.05	23.0	-846.3	285.1	260.3	24.78	11.506		
7,750.0	7,508.2	7,673.6	7,306.1	17.5	19.9	-47.27	60.6	-846.7	293.5	269.4	24.12	12.171		
7,800.0	7,519.4	7,712.6	7,307.0	17.7	20.0	-45.68	99.6	-846.9	301.1	277.4	23.72	12.693		
7,850.0	7,526.4	7,762.1	7,307.0	17.8	20.2	-44.45	149.1	-846.9	306.4	282.7	23.72	12.919		
7,900.0	7,529.0	7,812.0	7,307.0	18.1	20.4	-44.03	199.0	-846.9	308.7	284.5	24.20	12.754		
7,905.0	7,529.0	7,817.0	7,307.0	18.1	20.4	-44.03	204.0	-846.9	308.8	284.5	24.29	12.715		
8,000.0	7,529.0	7,912.0	7,307.0	18.6	20.9	-44.18	299.0	-846.9	309.6	284.3	25.29	12.241		
8,100.0	7,529.0	8,012.0	7,307.0	19.4	21.6	-44.33	399.0	-846.9	310.4	283.8	26.54	11.695		
8,200.0	7,529.0	8,112.0	7,307.0	20.2	22.3	-44.49	499.0	-846.9	311.2	283.2	27.96	11.131		
8,300.0	7,529.0	8,212.0	7,307.0	21.1	23.2	-44.64	599.0	-846.9	312.0	282.5	29.53	10.566		
8,400.0	7,529.0	8,312.0	7,307.0	22.2	24.2	-44.79	699.0	-846.9	312.8	281.6	31.23	10.017		
8,500.0	7,529.0	8,412.0	7,307.0	23.3	25.2	-44.94	798.9	-846.9	313.7	280.6	33.05	9.492		
8,600.0	7,529.0	8,512.0	7,307.0	24.5	26.3	-45.10	898.9	-846.9	314.5	279.5	34.96	8.996		
8,700.0	7,529.0	8,612.0	7,307.0	25.8	27.5	-45.25	998.9	-846.9	315.3	278.4	36.96	8.532		
8,800.0	7,529.0	8,712.0	7,307.0	27.1	28.8	-45.39	1,098.9	-846.9	316.2	277.1	39.03	8.100		
8,900.0	7,529.0	8,812.0	7,307.0	28.5	30.1	-45.54	1,198.9	-846.9	317.0	275.8	41.17	7.699		
9,000.0	7,529.0	8,911.9	7,307.0	29.9	31.4	-45.69	1,298.9	-846.9	317.8	274.5	43.37	7.328		
9,100.0	7,529.0	9,011.9	7,307.0	31.4	32.8	-45.84	1,398.9	-846.9	318.7	273.0	45.62	6.985		
9,200.0	7,529.0	9,111.9	7,307.0	32.9	34.2	-45.98	1,498.9	-846.9	319.5	271.6	47.91	6.668		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sprague 3D-9H-N267
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5011.0ft (Original Well Elev)
Reference Site:	S9-T2N-R67W (Sprague)	MD Reference:	WELL @ 5011.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Sprague 3D-9H-N267	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 S9-T2N-R67W (Sprague) - Sprague 3C-9H-N267 - 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)			
9,300.0	7,529.0	9,211.9	7,307.0	34.4	35.7	-46.13	1,598.9	-846.9	320.3	270.1	50.25	6.375	
9,400.0	7,529.0	9,311.9	7,307.0	35.9	37.1	-46.27	1,698.9	-846.9	321.2	268.6	52.63	6.103	
9,500.0	7,529.0	9,411.9	7,307.0	37.4	38.6	-46.42	1,798.9	-846.9	322.0	267.0	55.03	5.852	
9,600.0	7,529.0	9,511.9	7,307.0	39.0	40.2	-46.56	1,898.9	-846.9	322.9	265.4	57.47	5.618	
9,700.0	7,529.0	9,611.9	7,307.0	40.6	41.7	-46.70	1,998.9	-846.9	323.7	263.8	59.94	5.401	
9,800.0	7,529.0	9,711.9	7,307.0	42.2	43.3	-46.85	2,098.9	-846.9	324.6	262.2	62.44	5.199	
9,900.0	7,529.0	9,811.9	7,307.0	43.8	44.8	-46.99	2,198.9	-846.9	325.4	260.5	64.96	5.010	
10,000.0	7,529.0	9,911.9	7,307.0	45.4	46.4	-47.13	2,298.8	-846.9	326.3	258.8	67.50	4.834	
10,100.0	7,529.0	10,011.9	7,307.0	47.0	48.0	-47.27	2,398.8	-846.9	327.2	257.1	70.07	4.669	
10,200.0	7,529.0	10,111.9	7,307.0	48.6	49.6	-47.41	2,498.8	-846.9	328.0	255.4	72.65	4.515	
10,300.0	7,529.0	10,211.9	7,307.0	50.3	51.2	-47.54	2,598.8	-846.9	328.9	253.6	75.26	4.370	
10,400.0	7,529.0	10,311.8	7,307.0	51.9	52.8	-47.68	2,698.8	-846.9	329.8	251.9	77.88	4.234	
10,500.0	7,529.0	10,411.8	7,307.0	53.6	54.5	-47.82	2,798.8	-846.9	330.6	250.1	80.52	4.106	
10,600.0	7,529.0	10,511.8	7,307.0	55.3	56.1	-47.95	2,898.8	-846.9	331.5	248.3	83.18	3.985	
10,700.0	7,529.0	10,611.8	7,307.0	56.9	57.8	-48.09	2,998.8	-846.9	332.4	246.5	85.86	3.871	
10,800.0	7,529.0	10,711.8	7,307.0	58.6	59.4	-48.22	3,098.8	-846.9	333.2	244.7	88.55	3.763	
10,900.0	7,529.0	10,811.8	7,307.0	60.3	61.1	-48.36	3,198.8	-846.9	334.1	242.9	91.25	3.661	
10,949.1	7,529.0	10,860.9	7,307.0	61.1	61.9	-48.42	3,247.9	-846.9	334.5	242.0	92.58	3.613	
11,000.0	7,529.0	10,911.8	7,307.0	62.0	62.7	-48.51	3,298.8	-846.9	335.2	241.3	93.84	3.571	
11,100.0	7,529.0	11,011.8	7,307.0	63.6	64.4	-48.83	3,398.7	-846.9	337.4	240.9	96.48	3.497	
11,192.0	7,529.0	11,103.7	7,307.0	65.2	65.9	-49.28	3,490.6	-846.9	340.6	241.4	99.11	3.436	
11,200.0	7,529.0	11,111.6	7,307.0	65.3	66.1	-49.32	3,498.6	-846.9	340.9	241.5	99.38	3.430	
11,300.0	7,529.0	11,211.5	7,307.0	67.0	67.7	-49.91	3,598.5	-846.9	345.0	242.2	102.76	3.357	
11,400.0	7,529.0	11,311.4	7,307.0	68.7	69.4	-50.48	3,698.3	-846.9	349.2	243.0	106.16	3.289	
11,500.0	7,529.0	11,411.2	7,307.0	70.4	71.1	-51.04	3,798.2	-846.9	353.4	243.8	109.59	3.224	
11,600.0	7,529.0	11,511.1	7,307.0	72.1	72.8	-51.58	3,898.0	-846.9	357.6	244.6	113.03	3.164	
11,700.0	7,529.0	11,610.9	7,307.0	73.8	74.5	-52.11	3,997.9	-846.9	361.8	245.4	116.48	3.106	
11,800.0	7,529.0	11,710.8	7,307.0	75.4	76.2	-52.63	4,097.7	-846.9	366.1	246.2	119.96	3.052	
11,900.0	7,529.0	11,810.6	7,307.0	77.1	77.9	-53.14	4,197.6	-846.9	370.4	247.0	123.44	3.001	
12,000.0	7,529.0	11,910.5	7,307.0	78.8	79.6	-53.64	4,297.4	-846.9	374.8	247.8	126.94	2.952	
12,100.0	7,529.0	12,010.3	7,307.0	80.6	81.3	-54.12	4,397.3	-846.9	379.1	248.7	130.46	2.906	
12,200.0	7,529.0	12,110.2	7,307.0	82.3	83.0	-54.59	4,497.2	-846.9	383.5	249.6	133.98	2.863	
12,300.0	7,529.0	12,210.0	7,307.0	84.0	84.7	-55.06	4,597.0	-846.9	388.0	250.5	137.51	2.821	
12,400.0	7,529.0	12,309.9	7,307.0	85.7	86.4	-55.51	4,696.9	-846.9	392.4	251.4	141.06	2.782	
12,500.0	7,529.0	12,409.7	7,307.0	87.4	88.1	-55.95	4,796.7	-846.9	396.9	252.3	144.61	2.745	
12,600.0	7,529.0	12,509.6	7,307.0	89.1	89.8	-56.38	4,896.6	-846.9	401.4	253.2	148.17	2.709	
12,700.0	7,529.0	12,609.5	7,307.0	90.8	91.5	-56.80	4,996.4	-846.9	405.9	254.2	151.74	2.675	
12,800.0	7,529.0	12,709.3	7,307.0	92.5	93.2	-57.22	5,096.3	-846.9	410.4	255.1	155.31	2.643	
12,876.7	7,529.0	12,785.9	7,307.0	93.9	94.5	-57.53	5,172.8	-846.9	413.9	255.9	158.06	2.619 SF	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sprague 3D-9H-N267
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5011.0ft (Original Well Elev)
Reference Site:	S9-T2N-R67W (Sprague)	MD Reference:	WELL @ 5011.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Sprague 3D-9H-N267	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 S9-T2N-R67W (Sprague) - Sprague 3E-9H-N267 - 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	90.06	0.0	8.4	8.4					
100.0	100.0	100.0	100.0	0.1	0.1	90.06	0.0	8.4	8.4	8.1	0.24	34.322		
191.9	191.9	191.9	191.9	0.3	0.3	90.06	0.0	8.4	8.4	7.8	0.57	14.839		
200.0	200.0	200.0	200.0	0.3	0.3	90.06	0.0	8.4	8.4	7.8	0.59	14.133		
300.0	300.0	300.0	300.0	0.5	0.5	95.90	-0.8	8.1	8.2	7.2	0.94	8.660		
371.1	371.1	371.1	371.1	0.6	0.6	107.80	-2.4	7.6	8.0	6.8	1.19	6.701 CC		
400.0	400.0	400.0	400.0	0.6	0.7	114.47	-3.3	7.3	8.0	6.7	1.29	6.216 ES		
500.0	500.0	499.9	499.7	0.8	0.8	141.31	-7.5	6.0	9.6	7.9	1.66	5.786		
600.0	600.0	599.6	599.2	1.0	1.0	-80.79	-13.3	4.1	13.8	11.7	2.01	6.850		
700.0	700.0	699.1	698.5	1.2	1.3	-73.99	-20.7	1.7	19.6	17.2	2.36	8.286		
800.0	799.9	798.6	797.5	1.4	1.5	-72.08	-29.7	-1.2	26.5	23.8	2.73	9.709		
900.0	899.7	897.8	896.1	1.5	1.7	-72.28	-40.4	-4.6	34.5	31.3	3.12	11.047		
1,000.0	999.4	996.8	994.2	1.8	2.0	-73.41	-52.7	-8.5	43.3	39.8	3.53	12.285		
1,100.0	1,098.9	1,095.6	1,092.0	2.0	2.3	-74.94	-66.5	-13.0	53.2	49.3	3.97	13.417		
1,200.0	1,198.3	1,194.2	1,189.2	2.2	2.6	-76.60	-81.9	-17.9	64.1	59.7	4.44	14.441		
1,300.0	1,297.4	1,293.4	1,286.9	2.5	2.9	-78.62	-98.3	-23.2	75.5	70.6	4.96	15.233		
1,400.0	1,396.4	1,392.7	1,384.7	2.7	3.3	-80.76	-114.8	-28.5	86.8	81.3	5.50	15.792		
1,500.0	1,495.5	1,492.0	1,482.5	3.0	3.6	-82.41	-131.2	-33.7	98.2	92.2	6.05	16.236		
1,600.0	1,594.5	1,591.4	1,580.3	3.3	4.0	-83.72	-147.6	-39.0	109.7	103.1	6.61	16.596		
1,700.0	1,693.5	1,690.7	1,678.1	3.6	4.3	-84.77	-164.0	-44.3	121.2	114.0	7.18	16.892		
1,800.0	1,792.5	1,790.0	1,775.9	3.9	4.6	-85.65	-180.4	-49.5	132.8	125.0	7.75	17.138		
1,900.0	1,891.6	1,889.3	1,873.8	4.2	5.0	-86.38	-196.9	-54.8	144.3	136.0	8.32	17.346		
2,000.0	1,990.6	1,988.6	1,971.6	4.4	5.3	-87.01	-213.3	-60.1	155.9	147.0	8.90	17.524		
2,100.0	2,089.6	2,087.9	2,069.4	4.7	5.7	-87.55	-229.7	-65.4	167.5	158.0	9.48	17.678		
2,200.0	2,188.6	2,187.2	2,167.2	5.0	6.0	-88.01	-246.1	-70.6	179.1	169.1	10.06	17.812		
2,300.0	2,287.7	2,286.5	2,265.0	5.3	6.3	-88.43	-262.5	-75.9	190.8	180.1	10.64	17.929		
2,400.0	2,386.7	2,385.9	2,362.8	5.6	6.7	-88.79	-279.0	-81.2	202.4	191.2	11.22	18.033		
2,500.0	2,485.7	2,485.2	2,460.6	5.9	7.0	-89.12	-295.4	-86.4	214.1	202.2	11.81	18.126		
2,600.0	2,584.8	2,584.5	2,558.4	6.2	7.4	-89.41	-311.8	-91.7	225.7	213.3	12.40	18.209		
2,700.0	2,683.8	2,683.8	2,656.2	6.5	7.7	-89.67	-328.2	-97.0	237.4	224.4	12.98	18.284		
2,800.0	2,782.8	2,783.1	2,754.0	6.8	8.1	-89.91	-344.6	-102.3	249.0	235.5	13.57	18.351		
2,900.0	2,881.8	2,882.4	2,851.8	7.1	8.4	-90.12	-361.1	-107.5	260.7	246.5	14.16	18.413		
3,000.0	2,980.9	2,981.7	2,949.6	7.4	8.8	-90.32	-377.5	-112.8	272.4	257.6	14.75	18.469		
3,100.0	3,079.9	3,081.0	3,047.4	7.7	9.1	-90.50	-393.9	-118.1	284.0	268.7	15.34	18.520		
3,200.0	3,178.9	3,181.4	3,146.3	8.0	9.4	-90.69	-410.4	-123.4	295.7	279.7	15.93	18.562		
3,300.0	3,277.9	3,284.4	3,247.9	8.3	9.8	-91.06	-426.0	-128.4	306.4	289.9	16.52	18.547		
3,400.0	3,377.0	3,387.5	3,350.0	8.6	10.1	-91.66	-439.9	-132.9	316.0	298.9	17.11	18.467		
3,500.0	3,476.0	3,490.7	3,452.4	8.9	10.3	-92.48	-452.1	-136.8	324.5	306.8	17.70	18.331		
3,600.0	3,575.0	3,594.0	3,555.1	9.2	10.6	-93.51	-462.5	-140.1	331.9	313.6	18.29	18.152		
3,700.0	3,674.0	3,697.2	3,657.9	9.5	10.8	-94.74	-471.1	-142.9	338.3	319.5	18.86	17.937		
3,800.0	3,773.1	3,800.4	3,760.8	9.8	11.0	-96.18	-478.0	-145.1	343.9	324.4	19.43	17.698		
3,900.0	3,872.1	3,903.4	3,863.7	10.1	11.2	-97.81	-483.1	-146.7	348.6	328.6	19.98	17.445		
4,000.0	3,971.1	4,006.1	3,966.4	10.4	11.3	-99.65	-486.4	-147.8	352.6	332.1	20.51	17.188		
4,100.0	4,070.2	4,108.6	4,068.9	10.7	11.4	-101.69	-488.0	-148.3	356.1	335.0	21.02	16.937		
4,200.0	4,169.2	4,208.9	4,169.2	11.0	11.6	-103.85	-488.2	-148.3	359.2	337.7	21.51	16.705		
4,300.0	4,268.2	4,308.0	4,268.2	11.3	11.7	-105.97	-488.2	-148.3	362.9	340.9	21.97	16.519		
4,400.0	4,367.2	4,407.0	4,367.2	11.6	11.8	-108.04	-488.2	-148.3	367.0	344.6	22.41	16.377		
4,500.0	4,466.3	4,506.0	4,466.3	11.9	11.9	-110.06	-488.2	-148.3	371.5	348.7	22.83	16.276		
4,600.0	4,565.3	4,605.1	4,565.3	12.2	12.0	-112.04	-488.2	-148.3	376.6	353.4	23.23	16.211		
4,700.0	4,664.3	4,704.1	4,664.3	12.5	12.1	-113.95	-488.2	-148.3	382.1	358.5	23.61	16.180		
4,800.0	4,763.3	4,803.1	4,763.3	12.8	12.2	-115.82	-488.2	-148.3	388.0	364.0	23.98	16.178		
4,900.0	4,862.4	4,902.1	4,862.4	13.1	12.4	-117.63	-488.2	-148.3	394.3	369.9	24.33	16.203		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sprague 3D-9H-N267
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5011.0ft (Original Well Elev)
Reference Site:	S9-T2N-R67W (Sprague)	MD Reference:	WELL @ 5011.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Sprague 3D-9H-N267	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 S9-T2N-R67W (Sprague) - Sprague 3E-9H-N267 - 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		
5,000.0	4,961.4	5,001.2	4,961.4	13.4	12.5	-119.37	-488.2	-148.3	401.0	376.3	24.67	16.253		
5,100.0	5,060.4	5,100.2	5,060.4	13.7	12.6	-121.07	-488.2	-148.3	408.0	383.0	25.00	16.324		
5,200.0	5,159.4	5,199.2	5,159.4	14.0	12.7	-122.70	-488.2	-148.3	415.4	390.1	25.31	16.415		
5,300.0	5,258.5	5,298.2	5,258.5	14.3	12.8	-124.27	-488.2	-148.3	423.2	397.6	25.61	16.524		
5,400.0	5,357.5	5,397.3	5,357.5	14.5	13.0	-125.79	-488.2	-148.3	431.2	405.3	25.90	16.648		
5,500.0	5,456.5	5,496.3	5,456.5	14.8	13.1	-127.26	-488.2	-148.3	439.5	413.4	26.19	16.785		
5,600.0	5,555.6	5,595.3	5,555.6	15.1	13.2	-128.66	-488.2	-148.3	448.2	421.7	26.46	16.935		
5,700.0	5,654.6	5,694.3	5,654.6	15.4	13.3	-130.02	-488.2	-148.3	457.0	430.3	26.73	17.095		
5,800.0	5,753.6	5,793.4	5,753.6	15.7	13.5	-131.32	-488.2	-148.3	466.2	439.2	27.00	17.265		
5,900.0	5,852.8	5,892.5	5,852.8	16.0	13.6	-132.56	-488.2	-148.3	474.9	447.7	27.26	17.422		
6,000.0	5,952.1	5,991.9	5,952.1	16.3	13.7	-133.61	-488.2	-148.3	482.7	455.2	27.52	17.541		
6,100.0	6,051.6	6,091.4	6,051.6	16.5	13.9	-134.46	-488.2	-148.3	489.4	461.6	27.77	17.621		
6,200.0	6,151.3	6,191.1	6,151.3	16.7	14.0	-135.15	-488.2	-148.3	494.9	466.9	28.03	17.658		
6,300.0	6,251.1	6,290.9	6,251.1	16.9	14.1	-135.67	-488.2	-148.3	499.2	471.0	28.28	17.652		
7,005.0	6,956.0	7,034.5	6,985.9	17.8	14.5	97.08	-429.9	-148.3	495.3	466.5	28.78	17.211		
7,050.0	7,001.0	7,079.5	7,025.4	17.8	14.4	94.36	-408.5	-148.3	492.9	464.4	28.52	17.286		
7,100.0	7,050.6	7,127.5	7,065.7	17.8	14.2	92.09	-382.4	-148.3	491.2	463.1	28.10	17.481		
7,150.0	7,099.5	7,173.8	7,102.4	17.8	14.1	89.82	-354.1	-148.3	490.4	462.8	27.67	17.727		
7,169.3	7,118.0	7,191.2	7,115.5	17.8	14.0	88.96	-342.7	-148.3	490.4	462.9	27.50	17.834		
7,200.0	7,147.3	7,218.6	7,135.5	17.8	13.9	87.58	-324.0	-148.3	490.5	463.3	27.24	18.009		
7,250.0	7,193.6	7,261.9	7,165.2	17.7	13.8	85.38	-292.5	-148.3	491.5	464.6	26.84	18.313		
7,300.0	7,238.2	7,304.1	7,191.8	17.6	13.7	83.22	-259.8	-148.3	493.2	466.7	26.48	18.626		
7,350.0	7,280.5	7,345.2	7,215.3	17.6	13.6	81.13	-226.1	-148.3	495.6	469.4	26.17	18.935		
7,400.0	7,320.5	7,385.4	7,235.9	17.5	13.5	79.10	-191.6	-148.3	498.5	472.6	25.92	19.230		
11,000.0	7,529.0	10,887.8	7,307.0	62.0	61.1	63.61	3,298.8	-148.2	499.6	389.7	109.94	4.544		
11,100.0	7,529.0	10,987.7	7,307.0	63.6	62.8	63.45	3,398.7	-148.2	497.0	384.4	112.61	4.414		
11,192.0	7,529.0	11,079.6	7,307.0	65.2	64.4	63.21	3,490.6	-148.2	493.2	378.3	114.94	4.291		
11,200.0	7,529.0	11,087.6	7,307.0	65.3	64.5	63.19	3,498.6	-148.2	492.8	377.6	115.17	4.279		
11,300.0	7,529.0	11,187.5	7,307.0	67.0	66.2	62.91	3,598.5	-148.2	488.0	370.0	117.95	4.137		
11,400.0	7,529.0	11,287.3	7,307.0	68.7	67.9	62.61	3,698.3	-148.2	483.2	362.5	120.72	4.003		
11,500.0	7,529.0	11,387.2	7,307.0	70.4	69.6	62.32	3,798.2	-148.2	478.4	354.9	123.46	3.875		
11,600.0	7,529.0	11,487.0	7,307.0	72.1	71.4	62.01	3,898.0	-148.2	473.6	347.4	126.19	3.753		
11,700.0	7,529.0	11,586.9	7,307.0	73.8	73.1	61.70	3,997.9	-148.2	468.8	340.0	128.88	3.638		
11,800.0	7,529.0	11,686.7	7,307.0	75.4	74.8	61.39	4,097.7	-148.2	464.1	332.5	131.56	3.528		
11,900.0	7,529.0	11,786.6	7,307.0	77.1	76.5	61.06	4,197.6	-148.2	459.4	325.2	134.20	3.423		
12,000.0	7,529.0	11,886.5	7,307.0	78.8	78.3	60.73	4,297.4	-148.2	454.6	317.8	136.82	3.323		
12,100.0	7,529.0	11,986.3	7,307.0	80.6	80.0	60.40	4,397.3	-148.2	449.9	310.5	139.40	3.228		
12,200.0	7,529.0	12,086.2	7,307.0	82.3	81.7	60.06	4,497.1	-148.2	445.2	303.3	141.96	3.136		
12,300.0	7,529.0	12,186.0	7,307.0	84.0	83.4	59.70	4,597.0	-148.2	440.6	296.1	144.48	3.049		
12,400.0	7,529.0	12,285.9	7,307.0	85.7	85.2	59.35	4,696.8	-148.1	435.9	288.9	146.96	2.966		
12,500.0	7,529.0	12,385.7	7,307.0	87.4	86.9	58.98	4,796.7	-148.1	431.3	281.8	149.41	2.886		
12,600.0	7,529.0	12,485.6	7,307.0	89.1	88.6	58.61	4,896.6	-148.1	426.6	274.8	151.82	2.810		
12,700.0	7,529.0	12,585.4	7,307.0	90.8	90.4	58.22	4,996.4	-148.1	422.0	267.8	154.19	2.737		
12,800.0	7,529.0	12,685.3	7,307.0	92.5	92.1	57.83	5,096.3	-148.1	417.4	260.9	156.52	2.667		
12,876.7	7,529.0	12,758.2	7,307.0	93.9	93.4	57.54	5,169.2	-148.1	413.9	255.7	158.24	2.616 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sprague 3D-9H-N267
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5011.0ft (Original Well Elev)
Reference Site:	S9-T2N-R67W (Sprague)	MD Reference:	WELL @ 5011.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Sprague 3D-9H-N267	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 S9-T2N-R67W (Sprague) - Sprague 3F-9H-N267 - 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	90.05	0.0	19.6	19.6					
100.0	100.0	100.0	100.0	0.1	0.1	90.05	0.0	19.6	19.6	19.3	0.24	80.085		
200.0	200.0	200.0	200.0	0.3	0.3	90.05	0.0	19.6	19.6	19.0	0.59	32.976		
300.0	300.0	300.0	300.0	0.5	0.5	90.05	0.0	19.6	19.6	18.6	0.94	20.763		
400.0	400.0	400.0	400.0	0.6	0.6	90.05	0.0	19.6	19.6	18.3	1.29	15.151		
500.0	500.0	500.0	500.0	0.8	0.8	90.05	0.0	19.6	19.6	17.9	1.64	11.928 CC, ES		
600.0	600.0	599.9	599.9	1.0	1.0	-148.90	-0.8	19.9	20.6	18.6	1.99	10.371		
700.0	700.0	699.7	699.6	1.2	1.2	-146.30	-3.3	20.8	23.9	21.5	2.34	10.195 SF		
800.0	799.9	799.3	799.2	1.4	1.4	-143.26	-7.3	22.3	29.3	26.6	2.70	10.869		
900.0	899.7	898.7	898.4	1.5	1.5	-140.51	-13.0	24.5	37.1	34.0	3.07	12.088		
1,000.0	999.4	997.8	997.2	1.8	1.7	-138.29	-20.2	27.2	47.1	43.6	3.45	13.655		
1,100.0	1,098.9	1,096.5	1,095.5	2.0	2.0	-136.58	-29.0	30.5	59.3	55.5	3.85	15.432		
1,200.0	1,198.3	1,194.8	1,193.1	2.2	2.2	-135.28	-39.4	34.4	73.8	69.6	4.26	17.321		
1,300.0	1,297.4	1,292.6	1,290.1	2.5	2.5	-134.27	-51.2	38.9	90.6	85.9	4.70	19.251		
1,400.0	1,396.4	1,390.9	1,387.4	2.7	2.7	-133.58	-64.0	43.8	108.5	103.3	5.16	21.017		
1,500.0	1,495.5	1,489.3	1,484.8	3.0	3.0	-133.08	-76.8	48.6	126.4	120.8	5.63	22.466		
1,600.0	1,594.5	1,587.7	1,582.3	3.3	3.3	-132.71	-89.6	53.4	144.3	138.2	6.10	23.670		
1,700.0	1,693.5	1,686.0	1,679.7	3.6	3.5	-132.42	-102.4	58.3	162.3	155.7	6.57	24.685		
1,800.0	1,792.5	1,784.4	1,777.1	3.9	3.8	-132.18	-115.2	63.1	180.2	173.1	7.05	25.549		
1,900.0	1,891.6	1,882.8	1,874.5	4.2	4.1	-131.99	-128.0	67.9	198.1	190.6	7.54	26.292		
2,000.0	1,990.6	1,981.2	1,971.9	4.4	4.4	-131.83	-140.9	72.8	216.1	208.0	8.02	26.937		
2,100.0	2,089.6	2,079.5	2,069.4	4.7	4.7	-131.70	-153.7	77.6	234.0	225.5	8.51	27.502		
2,200.0	2,188.6	2,177.9	2,166.8	5.0	4.9	-131.58	-166.5	82.5	252.0	243.0	9.00	28.000		
2,300.0	2,287.7	2,276.3	2,264.2	5.3	5.2	-131.48	-179.3	87.3	269.9	260.4	9.49	28.443		
2,400.0	2,386.7	2,374.7	2,361.6	5.6	5.5	-131.39	-192.1	92.1	287.8	277.9	9.98	28.838		
2,500.0	2,485.7	2,473.0	2,459.0	5.9	5.8	-131.32	-204.9	97.0	305.8	295.3	10.47	29.193		
2,600.0	2,584.8	2,571.4	2,556.4	6.2	6.1	-131.25	-217.7	101.8	323.7	312.8	10.97	29.514		
2,700.0	2,683.8	2,669.8	2,653.9	6.5	6.4	-131.19	-230.5	106.7	341.7	330.2	11.46	29.805		
2,800.0	2,782.8	2,768.2	2,751.3	6.8	6.7	-131.13	-243.3	111.5	359.6	347.7	11.96	30.070		
2,900.0	2,881.8	2,866.5	2,848.7	7.1	7.0	-131.08	-256.1	116.3	377.6	365.1	12.46	30.312		
3,000.0	2,980.9	2,964.9	2,946.1	7.4	7.3	-131.04	-268.9	121.2	395.5	382.6	12.95	30.535		
3,100.0	3,079.9	3,063.3	3,043.5	7.7	7.6	-130.99	-281.7	126.0	413.5	400.0	13.45	30.740		
3,200.0	3,178.9	3,161.7	3,141.0	8.0	7.8	-130.96	-294.5	130.9	431.4	417.5	13.95	30.929		
3,300.0	3,277.9	3,260.1	3,238.4	8.3	8.1	-130.92	-307.4	135.7	449.3	434.9	14.45	31.104		
3,400.0	3,377.0	3,358.4	3,335.8	8.6	8.4	-130.89	-320.2	140.5	467.3	452.3	14.95	31.267		
3,500.0	3,476.0	3,456.8	3,433.2	8.9	8.7	-130.86	-333.0	145.4	485.2	469.8	15.44	31.419		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sprague 3D-9H-N267
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5011.0ft (Original Well Elev)
Reference Site:	S9-T2N-R67W (Sprague)	MD Reference:	WELL @ 5011.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Sprague 3D-9H-N267	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 S9-T2N-R67W (Sprague) - Sprague 3G-9H-N267 - 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		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	90.05	0.0	30.8	30.8					
100.0	100.0	100.0	100.0	0.1	0.1	90.05	0.0	30.8	30.8	30.5	0.24	125.848		
200.0	200.0	200.0	200.0	0.3	0.3	90.05	0.0	30.8	30.8	30.2	0.59	51.820		
300.0	300.0	300.0	300.0	0.5	0.5	90.05	0.0	30.8	30.8	29.8	0.94	32.627		
400.0	400.0	400.0	400.0	0.6	0.6	90.05	0.0	30.8	30.8	29.5	1.29	23.809 CC, ES		
500.0	500.0	499.6	499.6	0.8	0.8	91.14	-0.6	31.4	31.4	29.7	1.64	19.130		
600.0	600.0	599.1	599.1	1.0	1.0	-146.63	-2.4	33.2	34.1	32.1	1.99	17.119		
700.0	700.0	698.5	698.3	1.2	1.2	-144.60	-5.4	36.3	39.6	37.2	2.34	16.895 SF		
800.0	799.9	797.5	797.2	1.4	1.4	-143.04	-9.6	40.7	47.9	45.2	2.70	17.743		
900.0	899.7	896.2	895.6	1.5	1.6	-141.98	-14.9	46.2	59.0	55.9	3.06	19.263		
1,000.0	999.4	994.3	993.2	1.8	1.8	-141.30	-21.4	52.9	72.8	69.4	3.43	21.211		
1,100.0	1,098.9	1,091.8	1,090.1	2.0	2.0	-140.87	-29.0	60.8	89.4	85.6	3.81	23.429		
1,200.0	1,198.3	1,188.5	1,186.1	2.2	2.3	-140.60	-37.7	69.7	108.6	104.4	4.21	25.809		
1,300.0	1,297.4	1,286.0	1,282.6	2.5	2.6	-140.60	-47.1	79.5	130.0	125.4	4.62	28.168		
1,400.0	1,396.4	1,383.6	1,379.2	2.7	2.8	-140.91	-56.5	89.2	152.1	147.1	5.04	30.212		
1,500.0	1,495.5	1,481.1	1,475.8	3.0	3.1	-141.14	-65.9	99.0	174.2	168.7	5.46	31.916		
1,600.0	1,594.5	1,578.6	1,572.4	3.3	3.4	-141.32	-75.4	108.8	196.3	190.4	5.89	33.353		
1,700.0	1,693.5	1,676.2	1,668.9	3.6	3.7	-141.46	-84.8	118.5	218.4	212.1	6.32	34.581		
1,800.0	1,792.5	1,773.7	1,765.5	3.9	3.9	-141.58	-94.2	128.3	240.5	233.7	6.75	35.639		
1,900.0	1,891.6	1,871.2	1,862.1	4.2	4.2	-141.67	-103.7	138.1	262.6	255.4	7.18	36.560		
2,000.0	1,990.6	1,968.8	1,958.7	4.4	4.5	-141.76	-113.1	147.8	284.6	277.0	7.62	37.369		
2,100.0	2,089.6	2,066.3	2,055.3	4.7	4.8	-141.83	-122.5	157.6	306.7	298.7	8.05	38.083		
2,200.0	2,188.6	2,163.8	2,151.8	5.0	5.1	-141.89	-131.9	167.4	328.8	320.3	8.49	38.719		
2,300.0	2,287.7	2,261.3	2,248.4	5.3	5.4	-141.94	-141.4	177.1	350.9	342.0	8.93	39.289		
2,400.0	2,386.7	2,358.9	2,345.0	5.6	5.7	-141.99	-150.8	186.9	373.0	363.6	9.37	39.801		
2,500.0	2,485.7	2,456.4	2,441.6	5.9	5.9	-142.03	-160.2	196.6	395.1	385.3	9.81	40.265		
2,600.0	2,584.8	2,553.9	2,538.2	6.2	6.2	-142.07	-169.7	206.4	417.2	406.9	10.25	40.686		
2,700.0	2,683.8	2,651.5	2,634.7	6.5	6.5	-142.10	-179.1	216.2	439.3	428.6	10.70	41.070		
2,800.0	2,782.8	2,749.0	2,731.3	6.8	6.8	-142.13	-188.5	225.9	461.4	450.2	11.14	41.422		
2,900.0	2,881.8	2,846.5	2,827.9	7.1	7.1	-142.16	-197.9	235.7	483.5	471.9	11.58	41.746		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sprague 3D-9H-N267
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5011.0ft (Original Well Elev)
Reference Site:	S9-T2N-R67W (Sprague)	MD Reference:	WELL @ 5011.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Sprague 3D-9H-N267	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 S9-T2N-R67W (Sprague) - Sprague 3H-9H-N267 - 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	90.05	0.0	39.1	39.1					
100.0	100.0	100.0	100.0	0.1	0.1	90.05	0.0	39.1	39.1	38.9	0.24	160.170		
200.0	200.0	200.0	200.0	0.3	0.3	90.05	0.0	39.1	39.1	38.5	0.59	65.953		
300.0	300.0	300.0	300.0	0.5	0.5	90.05	0.0	39.1	39.1	38.2	0.94	41.526		
400.0	400.0	400.0	400.0	0.6	0.6	90.05	0.0	39.1	39.1	37.8	1.29	30.303 CC, ES		
500.0	500.0	498.8	498.8	0.8	0.8	91.32	-0.9	40.6	40.6	39.0	1.64	24.752		
600.0	600.0	597.4	597.2	1.0	1.0	-145.96	-3.6	44.9	45.9	43.9	1.99	23.059 SF		
700.0	700.0	695.3	694.8	1.2	1.2	-143.31	-8.1	52.0	55.7	53.3	2.34	23.781		
800.0	799.9	792.3	791.1	1.4	1.5	-141.20	-14.2	61.9	70.0	67.3	2.70	25.959		
900.0	899.7	889.5	887.2	1.5	1.7	-139.78	-21.8	74.1	88.4	85.3	3.06	28.888		
1,000.0	999.4	987.5	984.1	1.8	2.0	-139.33	-29.7	86.7	108.4	104.9	3.43	31.599		
1,100.0	1,098.9	1,085.2	1,080.7	2.0	2.3	-139.49	-37.5	99.3	129.7	125.9	3.81	34.048		
1,200.0	1,198.3	1,182.6	1,176.9	2.2	2.6	-139.99	-45.4	111.9	152.3	148.1	4.20	36.286		
1,300.0	1,297.4	1,279.7	1,272.9	2.5	2.9	-140.69	-53.1	124.4	176.2	171.6	4.59	38.352		
1,400.0	1,396.4	1,376.6	1,368.6	2.7	3.2	-141.50	-60.9	136.8	200.8	195.8	5.00	40.145		
1,500.0	1,495.5	1,473.5	1,464.4	3.0	3.5	-142.13	-68.7	149.3	225.5	220.1	5.41	41.649		
1,600.0	1,594.5	1,570.3	1,560.2	3.3	3.8	-142.64	-76.5	161.8	250.1	244.3	5.83	42.927		
1,700.0	1,693.5	1,667.2	1,655.9	3.6	4.1	-143.05	-84.2	174.2	274.8	268.6	6.24	44.025		
1,800.0	1,792.5	1,764.1	1,751.7	3.9	4.4	-143.40	-92.0	186.7	299.5	292.9	6.66	44.977		
1,900.0	1,891.6	1,861.0	1,847.5	4.2	4.7	-143.70	-99.8	199.2	324.2	317.1	7.08	45.811		
2,000.0	1,990.6	1,957.9	1,943.2	4.4	5.0	-143.95	-107.6	211.7	348.9	341.4	7.50	46.546		
2,100.0	2,089.6	2,054.8	2,039.0	4.7	5.3	-144.17	-115.3	224.1	373.7	365.7	7.92	47.200		
2,200.0	2,188.6	2,151.7	2,134.8	5.0	5.6	-144.36	-123.1	236.6	398.4	390.0	8.34	47.784		
2,300.0	2,287.7	2,248.6	2,230.5	5.3	5.9	-144.53	-130.9	249.1	423.1	414.3	8.76	48.309		
2,400.0	2,386.7	2,345.4	2,326.3	5.6	6.2	-144.68	-138.6	261.5	447.8	438.6	9.18	48.784		
2,500.0	2,485.7	2,442.3	2,422.1	5.9	6.5	-144.82	-146.4	274.0	472.6	463.0	9.60	49.214		
2,600.0	2,584.8	2,539.2	2,517.8	6.2	6.8	-144.94	-154.2	286.5	497.3	487.3	10.02	49.607		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sprague 3D-9H-N267
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5011.0ft (Original Well Elev)
Reference Site:	S9-T2N-R67W (Sprague)	MD Reference:	WELL @ 5011.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Sprague 3D-9H-N267	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 S9-T2N-R67W (Sprague) - Sprague 3I--9H-N267 - 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	94.11	-3.6	50.3	50.4					
100.0	100.0	100.0	100.0	0.1	0.1	94.11	-3.6	50.3	50.4	50.2	0.24	206.465		
200.0	200.0	200.0	200.0	0.3	0.3	94.11	-3.6	50.3	50.4	49.9	0.59	85.015		
300.0	300.0	300.0	300.0	0.5	0.5	94.11	-3.6	50.3	50.4	49.5	0.94	53.528 CC, ES		
400.0	400.0	398.3	398.3	0.6	0.6	94.72	-4.3	51.9	52.1	50.8	1.29	40.325		
500.0	500.0	496.4	496.3	0.8	0.8	96.34	-6.3	56.5	57.0	55.3	1.65	34.469		
600.0	600.0	594.0	593.5	1.0	1.0	-141.92	-9.6	64.2	65.9	63.9	1.98	33.214 SF		
700.0	700.0	690.7	689.5	1.2	1.3	-140.76	-14.1	74.8	79.4	77.1	2.33	34.075		
800.0	799.9	786.2	783.8	1.4	1.6	-140.09	-19.9	88.1	97.6	94.9	2.68	36.393		
900.0	899.7	880.7	876.7	1.5	1.9	-139.75	-26.8	104.2	120.1	117.1	3.03	39.600		
1,000.0	999.4	977.5	971.6	1.8	2.3	-139.80	-34.3	121.6	145.1	141.7	3.40	42.721		
1,100.0	1,098.9	1,073.9	1,066.2	2.0	2.6	-140.17	-41.8	139.1	171.4	167.7	3.77	45.497		
1,200.0	1,198.3	1,170.0	1,160.4	2.2	3.0	-140.71	-49.3	156.4	199.0	194.9	4.15	47.994		
1,300.0	1,297.4	1,265.7	1,254.2	2.5	3.3	-141.36	-56.7	173.7	228.0	223.4	4.54	50.266		
1,400.0	1,396.4	1,361.2	1,347.8	2.7	3.7	-142.13	-64.2	190.9	257.6	252.7	4.94	52.198		
1,500.0	1,495.5	1,456.6	1,441.4	3.0	4.1	-142.74	-71.6	208.2	287.3	281.9	5.34	53.815		
1,600.0	1,594.5	1,552.1	1,535.0	3.3	4.4	-143.24	-79.0	225.4	317.0	311.2	5.74	55.185		
1,700.0	1,693.5	1,647.5	1,628.6	3.6	4.8	-143.66	-86.4	242.6	346.7	340.5	6.15	56.360		
1,800.0	1,792.5	1,743.0	1,722.2	3.9	5.2	-144.00	-93.8	259.9	376.4	369.8	6.56	57.378		
1,900.0	1,891.6	1,838.5	1,815.8	4.2	5.5	-144.30	-101.3	277.1	406.1	399.1	6.97	58.268		
2,000.0	1,990.6	1,933.9	1,909.4	4.4	5.9	-144.56	-108.7	294.4	435.8	428.5	7.38	59.052		
2,100.0	2,089.6	2,029.4	2,003.0	4.7	6.3	-144.78	-116.1	311.6	465.6	457.8	7.79	59.747		
2,200.0	2,188.6	2,124.8	2,096.6	5.0	6.6	-144.98	-123.5	328.8	495.3	487.1	8.21	60.368		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sprague 3D-9H-N267
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5011.0ft (Original Well Elev)
Reference Site:	S9-T2N-R67W (Sprague)	MD Reference:	WELL @ 5011.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Sprague 3D-9H-N267	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 S9-T2N-R67W (Sprague) - Sprague 3J-9H-N267 - 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		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	93.53	-3.6	58.7	58.8					
100.0	100.0	100.0	100.0	0.1	0.1	93.53	-3.6	58.7	58.8	0.24	240.713			
200.0	200.0	200.0	200.0	0.3	0.3	93.53	-3.6	58.7	58.8	0.59	99.117 CC, ES			
300.0	300.0	298.0	298.0	0.5	0.5	93.96	-4.2	60.3	60.5	0.94	64.148			
400.0	400.0	395.8	395.7	0.6	0.7	95.12	-5.8	65.0	65.4	1.31	50.064			
500.0	500.0	493.2	492.6	0.8	0.9	96.69	-8.6	72.9	73.7	1.70	43.459 SF			
600.0	600.0	589.7	588.5	1.0	1.1	-141.90	-12.3	83.7	86.1	1.98	43.509			
700.0	700.0	685.2	682.9	1.2	1.4	-141.08	-17.1	97.4	103.0	2.32	44.354			
800.0	799.9	779.2	775.2	1.4	1.8	-140.68	-22.8	113.8	124.5	2.67	46.671			
900.0	899.7	872.5	866.3	1.5	2.2	-140.55	-29.4	132.9	150.5	3.02	49.878			
1,000.0	999.4	967.1	958.4	1.8	2.6	-140.65	-36.7	153.7	179.2	3.37	53.134			
1,100.0	1,098.9	1,062.5	1,051.1	2.0	3.0	-140.98	-44.0	174.6	209.3	3.74	55.990			
1,200.0	1,198.3	1,157.4	1,143.4	2.2	3.4	-141.45	-51.2	195.5	240.7	4.11	58.546			
1,300.0	1,297.4	1,251.8	1,235.3	2.5	3.8	-141.99	-58.4	216.2	273.4	4.49	60.856			
1,400.0	1,396.4	1,346.0	1,326.9	2.7	4.2	-142.68	-65.6	236.9	306.9	4.89	62.779			
1,500.0	1,495.5	1,440.2	1,418.5	3.0	4.7	-143.25	-72.8	257.6	340.3	5.29	64.382			
1,600.0	1,594.5	1,534.4	1,510.1	3.3	5.1	-143.71	-80.0	278.3	373.8	5.69	65.737			
1,700.0	1,693.5	1,628.6	1,601.7	3.6	5.5	-144.09	-87.2	299.0	407.3	6.09	66.895			
1,800.0	1,792.5	1,722.8	1,693.3	3.9	5.9	-144.42	-94.4	319.7	440.7	6.49	67.896			
1,900.0	1,891.6	1,817.0	1,784.9	4.2	6.3	-144.70	-101.6	340.4	474.3	6.90	68.769			

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Sprague 3D-9H-N267
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5011.0ft (Original Well Elev)
Reference Site:	S9-T2N-R67W (Sprague)	MD Reference:	WELL @ 5011.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Sprague 3D-9H-N267	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 @ 5011.0ft (Original Well Elev)

Offset Depths are relative to Offset Datum

Central Meridian is -105.500000 °

Coordinates are relative to: Sprague 3D-9H-N267

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.39°

