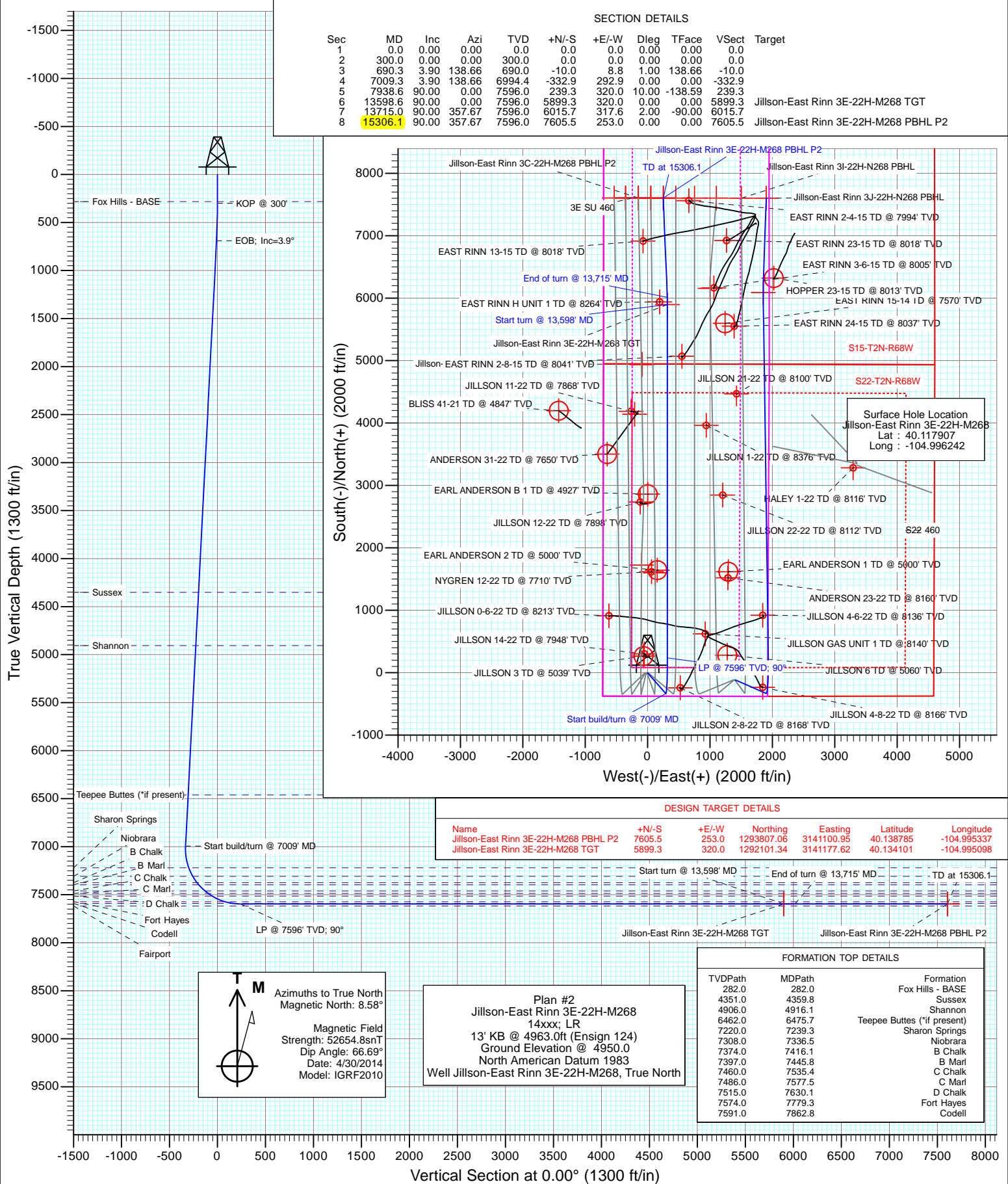




Project: DJ Wattenberg
Site: S22-T2N-R68W (Jillson-East Rinn)
Well: Jillson-East Rinn 3E-22H-M268
Wellbore: Hz
Design: Plan #2



Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Jillson-East Rinn 3E-22H-M268
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	13' KB @ 4963.0ft (Ensign 124)
Project:	DJ Wattenberg	MD Reference:	13' KB @ 4963.0ft (Ensign 124)
Site:	S22-T2N-R68W (Jillson-East Rinn)	North Reference:	True
Well:	Jillson-East Rinn 3E-22H-M268	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #2		

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		S22-T2N-R68W (Jillson-East Rinn)			
Site Position:		Northing:	1,289,542.88 ft	Latitude:	40.127030
From:	Lat/Long	Easting:	3,144,231.14 ft	Longitude:	-104.984230
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	0.33 °

Well	Jillson-East Rinn 3E-22H-M268					
Well Position	+N/-S	0.0 ft	Northing:	1,286,200.29 ft	Latitude:	40.117907
	+E/-W	0.0 ft	Easting:	3,140,891.14 ft	Longitude:	-104.996242
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,950.0 ft

Wellbore	Hz				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF2010	4/30/2014	8.58	66.69	52,655

Design	Plan #2			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	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	
300.0	0.00	0.00	300.0	0.0	0.0	0.00	0.00	0.00	0.00	
690.3	3.90	138.66	690.0	-10.0	8.8	1.00	1.00	0.00	138.66	
7,009.3	3.90	138.66	6,994.4	-332.9	292.9	0.00	0.00	0.00	0.00	
7,938.6	90.00	0.00	7,596.0	239.3	320.0	10.00	9.26	-14.92	-138.59	
13,598.6	90.00	0.00	7,596.0	5,899.3	320.0	0.00	0.00	0.00	0.00	Jillson-East Rinn 3E-2
13,715.0	90.00	357.67	7,596.0	6,015.7	317.6	2.00	0.00	-2.00	-90.00	
15,306.1	90.00	357.67	7,596.0	7,605.4	253.0	0.00	0.00	0.00	0.00	Jillson-East Rinn 3E-2

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Jillson-East Rinn 3E-22H-M268
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	13' KB @ 4963.0ft (Ensign 124)
Project:	DJ Wattenberg	MD Reference:	13' KB @ 4963.0ft (Ensign 124)
Site:	S22-T2N-R68W (Jillson-East Rinn)	North Reference:	True
Well:	Jillson-East Rinn 3E-22H-M268	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #2		

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	
282.0	0.00	0.00	282.0	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	KOP @ 300'
400.0	1.00	138.66	400.0	-0.7	0.6	-0.7	1.00	1.00	
500.0	2.00	138.66	500.0	-2.6	2.3	-2.6	1.00	1.00	
600.0	3.00	138.66	599.9	-5.9	5.2	-5.9	1.00	1.00	
690.3	3.90	138.66	690.0	-10.0	8.8	-10.0	1.00	1.00	EOB; Inc=3.9°
700.0	3.90	138.66	699.7	-10.5	9.2	-10.5	0.00	0.00	
800.0	3.90	138.66	799.4	-15.6	13.7	-15.6	0.00	0.00	
900.0	3.90	138.66	899.2	-20.7	18.2	-20.7	0.00	0.00	
1,000.0	3.90	138.66	999.0	-25.8	22.7	-25.8	0.00	0.00	
1,100.0	3.90	138.66	1,098.7	-30.9	27.2	-30.9	0.00	0.00	
1,200.0	3.90	138.66	1,198.5	-36.0	31.7	-36.0	0.00	0.00	
1,300.0	3.90	138.66	1,298.3	-41.1	36.2	-41.1	0.00	0.00	
1,400.0	3.90	138.66	1,398.1	-46.2	40.7	-46.2	0.00	0.00	
1,500.0	3.90	138.66	1,497.8	-51.4	45.2	-51.4	0.00	0.00	
1,600.0	3.90	138.66	1,597.6	-56.5	49.7	-56.5	0.00	0.00	
1,700.0	3.90	138.66	1,697.4	-61.6	54.2	-61.6	0.00	0.00	
1,800.0	3.90	138.66	1,797.1	-66.7	58.7	-66.7	0.00	0.00	
1,900.0	3.90	138.66	1,896.9	-71.8	63.2	-71.8	0.00	0.00	
2,000.0	3.90	138.66	1,996.7	-76.9	67.7	-76.9	0.00	0.00	
2,100.0	3.90	138.66	2,096.4	-82.0	72.2	-82.0	0.00	0.00	
2,200.0	3.90	138.66	2,196.2	-87.1	76.7	-87.1	0.00	0.00	
2,300.0	3.90	138.66	2,296.0	-92.2	81.2	-92.2	0.00	0.00	
2,400.0	3.90	138.66	2,395.7	-97.3	85.6	-97.3	0.00	0.00	
2,500.0	3.90	138.66	2,495.5	-102.5	90.1	-102.5	0.00	0.00	
2,600.0	3.90	138.66	2,595.3	-107.6	94.6	-107.6	0.00	0.00	
2,700.0	3.90	138.66	2,695.0	-112.7	99.1	-112.7	0.00	0.00	
2,800.0	3.90	138.66	2,794.8	-117.8	103.6	-117.8	0.00	0.00	
2,900.0	3.90	138.66	2,894.6	-122.9	108.1	-122.9	0.00	0.00	
3,000.0	3.90	138.66	2,994.3	-128.0	112.6	-128.0	0.00	0.00	
3,100.0	3.90	138.66	3,094.1	-133.1	117.1	-133.1	0.00	0.00	
3,200.0	3.90	138.66	3,193.9	-138.2	121.6	-138.2	0.00	0.00	
3,300.0	3.90	138.66	3,293.6	-143.3	126.1	-143.3	0.00	0.00	
3,400.0	3.90	138.66	3,393.4	-148.4	130.6	-148.4	0.00	0.00	
3,500.0	3.90	138.66	3,493.2	-153.6	135.1	-153.6	0.00	0.00	
3,600.0	3.90	138.66	3,593.0	-158.7	139.6	-158.7	0.00	0.00	
3,700.0	3.90	138.66	3,692.7	-163.8	144.1	-163.8	0.00	0.00	
3,800.0	3.90	138.66	3,792.5	-168.9	148.6	-168.9	0.00	0.00	
3,900.0	3.90	138.66	3,892.3	-174.0	153.1	-174.0	0.00	0.00	
4,000.0	3.90	138.66	3,992.0	-179.1	157.6	-179.1	0.00	0.00	
4,100.0	3.90	138.66	4,091.8	-184.2	162.1	-184.2	0.00	0.00	
4,200.0	3.90	138.66	4,191.6	-189.3	166.6	-189.3	0.00	0.00	
4,300.0	3.90	138.66	4,291.3	-194.4	171.1	-194.4	0.00	0.00	
4,359.8	3.90	138.66	4,351.0	-197.5	173.8	-197.5	0.00	0.00	Sussex
4,400.0	3.90	138.66	4,391.1	-199.5	175.6	-199.5	0.00	0.00	
4,500.0	3.90	138.66	4,490.9	-204.7	180.1	-204.7	0.00	0.00	
4,600.0	3.90	138.66	4,590.6	-209.8	184.6	-209.8	0.00	0.00	
4,700.0	3.90	138.66	4,690.4	-214.9	189.1	-214.9	0.00	0.00	
4,800.0	3.90	138.66	4,790.2	-220.0	193.6	-220.0	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Jillson-East Rinn 3E-22H-M268
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	13' KB @ 4963.0ft (Ensign 124)
Project:	DJ Wattenberg	MD Reference:	13' KB @ 4963.0ft (Ensign 124)
Site:	S22-T2N-R68W (Jillson-East Rinn)	North Reference:	True
Well:	Jillson-East Rinn 3E-22H-M268	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #2		

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	3.90	138.66	4,889.9	-225.1	198.0	-225.1	0.00	0.00	
4,916.1	3.90	138.66	4,906.0	-225.9	198.8	-225.9	0.00	0.00	Shannon
5,000.0	3.90	138.66	4,989.7	-230.2	202.5	-230.2	0.00	0.00	
5,100.0	3.90	138.66	5,089.5	-235.3	207.0	-235.3	0.00	0.00	
5,200.0	3.90	138.66	5,189.2	-240.4	211.5	-240.4	0.00	0.00	
5,300.0	3.90	138.66	5,289.0	-245.5	216.0	-245.5	0.00	0.00	
5,400.0	3.90	138.66	5,388.8	-250.6	220.5	-250.6	0.00	0.00	
5,500.0	3.90	138.66	5,488.5	-255.8	225.0	-255.8	0.00	0.00	
5,600.0	3.90	138.66	5,588.3	-260.9	229.5	-260.9	0.00	0.00	
5,700.0	3.90	138.66	5,688.1	-266.0	234.0	-266.0	0.00	0.00	
5,800.0	3.90	138.66	5,787.8	-271.1	238.5	-271.1	0.00	0.00	
5,900.0	3.90	138.66	5,887.6	-276.2	243.0	-276.2	0.00	0.00	
6,000.0	3.90	138.66	5,987.4	-281.3	247.5	-281.3	0.00	0.00	
6,100.0	3.90	138.66	6,087.2	-286.4	252.0	-286.4	0.00	0.00	
6,200.0	3.90	138.66	6,186.9	-291.5	256.5	-291.5	0.00	0.00	
6,300.0	3.90	138.66	6,286.7	-296.6	261.0	-296.6	0.00	0.00	
6,400.0	3.90	138.66	6,386.5	-301.7	265.5	-301.7	0.00	0.00	
6,475.7	3.90	138.66	6,462.0	-305.6	268.9	-305.6	0.00	0.00	Teepee Buttes (*if present)
6,500.0	3.90	138.66	6,486.2	-306.9	270.0	-306.9	0.00	0.00	
6,600.0	3.90	138.66	6,586.0	-312.0	274.5	-312.0	0.00	0.00	
6,700.0	3.90	138.66	6,685.8	-317.1	279.0	-317.1	0.00	0.00	
6,800.0	3.90	138.66	6,785.5	-322.2	283.5	-322.2	0.00	0.00	
6,900.0	3.90	138.66	6,885.3	-327.3	288.0	-327.3	0.00	0.00	
7,000.0	3.90	138.66	6,985.1	-332.4	292.5	-332.4	0.00	0.00	
7,009.3	3.90	138.66	6,994.4	-332.9	292.9	-332.9	0.00	0.00	Start build/turn @ 7009' MD
7,100.0	6.66	22.72	7,084.8	-330.4	297.0	-330.4	10.00	3.04	
7,200.0	16.34	8.84	7,182.7	-311.1	301.4	-311.1	10.00	9.68	
7,239.3	20.22	7.03	7,220.0	-298.9	303.1	-298.9	10.00	9.90	Sharon Springs
7,300.0	26.26	5.24	7,275.8	-275.0	305.6	-275.0	10.00	9.93	
7,336.5	29.89	4.50	7,308.0	-257.9	307.0	-257.9	10.00	9.95	Niobrara
7,400.0	36.22	3.53	7,361.2	-223.4	309.4	-223.4	10.00	9.97	
7,416.1	37.82	3.33	7,374.0	-213.7	310.0	-213.7	10.00	9.97	B Chalk
7,445.8	40.78	2.99	7,397.0	-194.9	311.0	-194.9	10.00	9.97	B Marl
7,500.0	46.19	2.48	7,436.3	-157.7	312.8	-157.7	10.00	9.98	
7,535.4	49.73	2.19	7,460.0	-131.4	313.9	-131.4	10.00	9.98	C Chalk
7,577.5	53.93	1.88	7,486.0	-98.4	315.0	-98.4	10.00	9.98	C Marl
7,600.0	56.18	1.73	7,498.9	-79.9	315.6	-79.9	10.00	9.98	
7,630.1	59.18	1.54	7,515.0	-54.5	316.3	-54.5	10.00	9.99	D Chalk
7,700.0	66.16	1.14	7,547.1	7.5	317.8	7.5	10.00	9.99	
7,779.3	74.08	0.74	7,574.0	82.0	319.0	82.0	10.00	9.99	Fort Hayes
7,800.0	76.15	0.64	7,579.3	102.0	319.2	102.0	10.00	9.99	
7,862.8	82.43	0.34	7,591.0	163.8	319.8	163.8	10.00	9.99	Codell
7,900.0	86.14	0.17	7,594.7	200.7	319.9	200.7	10.00	9.99	
7,938.6	90.00	0.00	7,596.0	239.3	320.0	239.3	10.00	9.99	LP @ 7596' TVD; 90°
8,000.0	90.00	0.00	7,596.0	300.7	320.0	300.7	0.00	0.00	
8,100.0	90.00	0.00	7,596.0	400.7	320.0	400.7	0.00	0.00	
8,200.0	90.00	0.00	7,596.0	500.7	320.0	500.7	0.00	0.00	
8,300.0	90.00	0.00	7,596.0	600.7	320.0	600.7	0.00	0.00	
8,400.0	90.00	0.00	7,596.0	700.7	320.0	700.7	0.00	0.00	
8,500.0	90.00	0.00	7,596.0	800.7	320.0	800.7	0.00	0.00	
8,600.0	90.00	0.00	7,596.0	900.7	320.0	900.7	0.00	0.00	
8,700.0	90.00	0.00	7,596.0	1,000.7	320.0	1,000.7	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Jillson-East Rinn 3E-22H-M268
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	13' KB @ 4963.0ft (Ensign 124)
Project:	DJ Wattenberg	MD Reference:	13' KB @ 4963.0ft (Ensign 124)
Site:	S22-T2N-R68W (Jillson-East Rinn)	North Reference:	True
Well:	Jillson-East Rinn 3E-22H-M268	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #2		

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
8,800.0	90.00	0.00	7,596.0	1,100.7	320.0	1,100.7	0.00	0.00	
8,900.0	90.00	0.00	7,596.0	1,200.7	320.0	1,200.7	0.00	0.00	
9,000.0	90.00	0.00	7,596.0	1,300.7	320.0	1,300.7	0.00	0.00	
9,100.0	90.00	0.00	7,596.0	1,400.7	320.0	1,400.7	0.00	0.00	
9,200.0	90.00	0.00	7,596.0	1,500.7	320.0	1,500.7	0.00	0.00	
9,300.0	90.00	0.00	7,596.0	1,600.7	320.0	1,600.7	0.00	0.00	
9,400.0	90.00	0.00	7,596.0	1,700.7	320.0	1,700.7	0.00	0.00	
9,500.0	90.00	0.00	7,596.0	1,800.7	320.0	1,800.7	0.00	0.00	
9,600.0	90.00	0.00	7,596.0	1,900.7	320.0	1,900.7	0.00	0.00	
9,700.0	90.00	0.00	7,596.0	2,000.7	320.0	2,000.7	0.00	0.00	
9,800.0	90.00	0.00	7,596.0	2,100.7	320.0	2,100.7	0.00	0.00	
9,900.0	90.00	0.00	7,596.0	2,200.7	320.0	2,200.7	0.00	0.00	
10,000.0	90.00	0.00	7,596.0	2,300.7	320.0	2,300.7	0.00	0.00	
10,100.0	90.00	0.00	7,596.0	2,400.7	320.0	2,400.7	0.00	0.00	
10,200.0	90.00	0.00	7,596.0	2,500.7	320.0	2,500.7	0.00	0.00	
10,300.0	90.00	0.00	7,596.0	2,600.7	320.0	2,600.7	0.00	0.00	
10,400.0	90.00	0.00	7,596.0	2,700.7	320.0	2,700.7	0.00	0.00	
10,500.0	90.00	0.00	7,596.0	2,800.7	320.0	2,800.7	0.00	0.00	
10,600.0	90.00	0.00	7,596.0	2,900.7	320.0	2,900.7	0.00	0.00	
10,700.0	90.00	0.00	7,596.0	3,000.7	320.0	3,000.7	0.00	0.00	
10,800.0	90.00	0.00	7,596.0	3,100.7	320.0	3,100.7	0.00	0.00	
10,900.0	90.00	0.00	7,596.0	3,200.7	320.0	3,200.7	0.00	0.00	
11,000.0	90.00	0.00	7,596.0	3,300.7	320.0	3,300.7	0.00	0.00	
11,100.0	90.00	0.00	7,596.0	3,400.7	320.0	3,400.7	0.00	0.00	
11,200.0	90.00	0.00	7,596.0	3,500.7	320.0	3,500.7	0.00	0.00	
11,300.0	90.00	0.00	7,596.0	3,600.7	320.0	3,600.7	0.00	0.00	
11,400.0	90.00	0.00	7,596.0	3,700.7	320.0	3,700.7	0.00	0.00	
11,500.0	90.00	0.00	7,596.0	3,800.7	320.0	3,800.7	0.00	0.00	
11,600.0	90.00	0.00	7,596.0	3,900.7	320.0	3,900.7	0.00	0.00	
11,700.0	90.00	0.00	7,596.0	4,000.7	320.0	4,000.7	0.00	0.00	
11,800.0	90.00	0.00	7,596.0	4,100.7	320.0	4,100.7	0.00	0.00	
11,900.0	90.00	0.00	7,596.0	4,200.7	320.0	4,200.7	0.00	0.00	
12,000.0	90.00	0.00	7,596.0	4,300.7	320.0	4,300.7	0.00	0.00	
12,100.0	90.00	0.00	7,596.0	4,400.7	320.0	4,400.7	0.00	0.00	
12,200.0	90.00	0.00	7,596.0	4,500.7	320.0	4,500.7	0.00	0.00	
12,300.0	90.00	0.00	7,596.0	4,600.7	320.0	4,600.7	0.00	0.00	
12,400.0	90.00	0.00	7,596.0	4,700.7	320.0	4,700.7	0.00	0.00	
12,500.0	90.00	0.00	7,596.0	4,800.7	320.0	4,800.7	0.00	0.00	
12,600.0	90.00	0.00	7,596.0	4,900.7	320.0	4,900.7	0.00	0.00	
12,700.0	90.00	0.00	7,596.0	5,000.7	320.0	5,000.7	0.00	0.00	
12,800.0	90.00	0.00	7,596.0	5,100.7	320.0	5,100.7	0.00	0.00	
12,900.0	90.00	0.00	7,596.0	5,200.7	320.0	5,200.7	0.00	0.00	
13,000.0	90.00	0.00	7,596.0	5,300.7	320.0	5,300.7	0.00	0.00	
13,100.0	90.00	0.00	7,596.0	5,400.7	320.0	5,400.7	0.00	0.00	
13,200.0	90.00	0.00	7,596.0	5,500.7	320.0	5,500.7	0.00	0.00	
13,300.0	90.00	0.00	7,596.0	5,600.7	320.0	5,600.7	0.00	0.00	
13,400.0	90.00	0.00	7,596.0	5,700.7	320.0	5,700.7	0.00	0.00	
13,500.0	90.00	0.00	7,596.0	5,800.7	320.0	5,800.7	0.00	0.00	
13,598.6	90.00	0.00	7,596.0	5,899.3	320.0	5,899.3	0.00	0.00	Start turn @ 13,598' MD
13,600.0	90.00	359.97	7,596.0	5,900.7	320.0	5,900.7	2.00	0.00	
13,700.0	90.00	357.97	7,596.0	6,000.7	318.2	6,000.7	2.00	0.00	
13,715.0	90.00	357.67	7,596.0	6,015.7	317.6	6,015.7	2.00	0.00	End of turn @ 13,715' MD

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Jillson-East Rinn 3E-22H-M268
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	13' KB @ 4963.0ft (Ensign 124)
Project:	DJ Wattenberg	MD Reference:	13' KB @ 4963.0ft (Ensign 124)
Site:	S22-T2N-R68W (Jillson-East Rinn)	North Reference:	True
Well:	Jillson-East Rinn 3E-22H-M268	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #2		

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
13,800.0	90.00	357.67	7,596.0	6,100.6	314.2	6,100.6	0.00	0.00	
13,900.0	90.00	357.67	7,596.0	6,200.5	310.1	6,200.5	0.00	0.00	
14,000.0	90.00	357.67	7,596.0	6,300.4	306.1	6,300.4	0.00	0.00	
14,100.0	90.00	357.67	7,596.0	6,400.4	302.0	6,400.4	0.00	0.00	
14,200.0	90.00	357.67	7,596.0	6,500.3	297.9	6,500.3	0.00	0.00	
14,300.0	90.00	357.67	7,596.0	6,600.2	293.9	6,600.2	0.00	0.00	
14,400.0	90.00	357.67	7,596.0	6,700.1	289.8	6,700.1	0.00	0.00	
14,500.0	90.00	357.67	7,596.0	6,800.0	285.8	6,800.0	0.00	0.00	
14,600.0	90.00	357.67	7,596.0	6,899.9	281.7	6,899.9	0.00	0.00	
14,700.0	90.00	357.67	7,596.0	6,999.9	277.6	6,999.9	0.00	0.00	
14,800.0	90.00	357.67	7,596.0	7,099.8	273.6	7,099.8	0.00	0.00	
14,900.0	90.00	357.67	7,596.0	7,199.7	269.5	7,199.7	0.00	0.00	
15,000.0	90.00	357.67	7,596.0	7,299.6	265.5	7,299.6	0.00	0.00	
15,100.0	90.00	357.67	7,596.0	7,399.5	261.4	7,399.5	0.00	0.00	
15,200.0	90.00	357.67	7,596.0	7,499.4	257.3	7,499.4	0.00	0.00	
15,300.0	90.00	357.67	7,596.0	7,599.4	253.3	7,599.4	0.00	0.00	
15,306.1	90.00	357.67	7,596.0	7,605.4	253.0	7,605.4	0.00	0.00	TD at 15306.1

Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
Jillson-East Rinn 3E-22H - plan hits target center - Point	0.00	0.00	7,596.0	7,605.4	253.0	1,293,807.06	3,141,100.95	40.138785	-104.995337
Jillson-East Rinn 3E-22H - plan hits target center - Point	0.00	0.00	7,596.0	5,899.3	320.0	1,292,101.34	3,141,177.62	40.134101	-104.995098
Jillson-East Rinn 3E-22H - plan misses target center by 608.0ft at 15306.1ft MD (7596.0 TVD, 7605.4 N, 253.0 E) - Point	0.00	0.00	6,988.0	7,605.4	253.0	1,293,807.06	3,141,100.95	40.138785	-104.995337

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Jillson-East Rinn 3E-22H-M268
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	13' KB @ 4963.0ft (Ensign 124)
Project:	DJ Wattenberg	MD Reference:	13' KB @ 4963.0ft (Ensign 124)
Site:	S22-T2N-R68W (Jillson-East Rinn)	North Reference:	True
Well:	Jillson-East Rinn 3E-22H-M268	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #2		

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
282.0	282.0	Fox Hills - BASE			
4,359.8	4,351.0	Sussex			
4,916.1	4,906.0	Shannon			
6,475.7	6,462.0	Teepee Buttes (*if present)			
7,239.3	7,220.0	Sharon Springs			
7,336.5	7,308.0	Niobrara			
7,416.1	7,374.0	B Chalk			
7,445.8	7,397.0	B Marl			
7,535.4	7,460.0	C Chalk			
7,577.5	7,486.0	C Marl			
7,630.1	7,515.0	D Chalk			
7,779.3	7,574.0	Fort Hayes			
7,862.8	7,591.0	Codell			

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
300.0	300.0	0.0	0.0	KOP @ 300'
690.3	690.0	-10.0	8.8	EOB; Inc=3.9°
7,009.3	6,994.4	-332.9	292.9	Start build/turn @ 7009' MD
7,938.6	7,596.0	239.3	320.0	LP @ 7596' TVD; 90°
13,598.6	7,596.0	5,899.3	320.0	Start turn @ 13,598' MD
13,715.0	7,596.0	6,015.7	317.6	End of turn @ 13,715' MD
15,306.1	7,596.0	7,605.4	253.0	TD at 15306.1

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

S22-T2N-R68W (Jillson-East Rinn)

Jillson-East Rinn 3E-22H-M268

Hz

Plan #2

Anticollision Report

07 May, 2014

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3E-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4963.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4963.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3E-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

Reference	Plan #2		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100.0ft	Error Model:	Systematic Ellipse
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 1,000.0ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program		Date	5/7/2014		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.0	15,306.1	Plan #2 (Hz)	Geolink MWD	Geolink MWD	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3E-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4963.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4963.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3E-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

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						
S22-T2N-R68W (Jillson-East Rinn)						
ANDERSON 23-22 (EXISTING) - ENCANA WELL - NO S	9,219.5	7,585.0	969.5	924.9	21.737	CC, ES
ANDERSON 23-22 (EXISTING) - ENCANA WELL - NO S	9,400.0	7,585.0	986.1	938.6	20.764	SF
ANDERSON 31-22 (EXISTING) - KERR-MCGEE WELL	11,202.2	7,625.6	966.2	883.9	11.740	CC, ES
ANDERSON 31-22 (EXISTING) - KERR-MCGEE WELL	11,400.0	7,625.6	986.2	900.5	11.508	SF
BLISS 41-21 (EXISTING) - KPK WELL - SURVEYS						Out of range
EARL ANDERSON 1 (EXISTING) - KPK WELL - NO SUR						Out of range
EARL ANDERSON 2 (EXISTING) - KPK WELL - NO SUR						Out of range
EARL ANDERSON B 1 (EXISTING) - KPK WELL - NO S						Out of range
EAST RINN 13-15 (EXISTING) - ENCANA WELL - SURV	14,629.8	7,900.9	353.2	214.6	2.548	CC, ES, SF
EAST RINN 15-14 (EXISTING) AL - VESSELS WELL - N	13,297.9	7,513.0	923.1	809.2	8.102	CC
EAST RINN 15-14 (EXISTING) AL - VESSELS WELL - N	13,300.0	7,513.0	923.1	809.2	8.100	ES
EAST RINN 15-14 (EXISTING) AL - VESSELS WELL - N	13,400.0	7,513.0	928.8	813.0	8.027	SF
EAST RINN 23-15 (EXISTING) - ENCANA WELL - SURV	14,588.2	7,567.7	986.3	849.5	7.209	CC
EAST RINN 23-15 (EXISTING) - ENCANA WELL - SURV	14,600.0	7,567.6	986.4	849.3	7.199	ES
EAST RINN 23-15 (EXISTING) - ENCANA WELL - SURV	14,700.0	7,566.2	992.6	853.8	7.153	SF
EAST RINN 24-15 (EXISTING) - ENCANA WELL - SURV						Out of range
EAST RINN 2-4-15 (EXISTING) - ENCANA WELL - SUR	15,248.6	7,680.6	409.0	260.3	2.751	CC, ES, SF
EAST RINN 2-8-15 (EXISTING) - ENCANA WELL - SUR	12,763.8	8,113.8	225.5	91.8	1.687	CC, ES, SF
EAST RINN 3-6-15 (EXISTING) - ENCANA WELL - SUR	13,834.2	7,710.8	750.8	617.2	5.619	CC, ES
EAST RINN 3-6-15 (EXISTING) - ENCANA WELL - SUR	13,900.0	7,711.2	753.7	619.0	5.593	SF
EAST RINN H UNIT 1 (EXISTING) - ENCANA WELL - N	13,642.6	7,510.0	125.4	5.5	1.046	Level 2, CC, ES, SF
HALEY 1-22 (EXISTING) - ENCANA WELL - NO SURVE						Out of range
Haley 31-22 - DD - Plan #1						Out of range
Haley 4-2-22 - DD - Plan #1						Out of range
Haley 8-4-22 - DD - Plan #1						Out of range
HOPPER 23-15 (EXISTING) - KERR-MCGEE WELL - SU						Out of range
JILLSON 0-6-22 (EXISTING) - ENCANA WELL - SURVE	2,486.0	2,630.0	914.1	896.8	52.952	CC
JILLSON 0-6-22 (EXISTING) - ENCANA WELL - SURVE	2,600.0	2,749.4	914.5	896.2	49.761	ES
JILLSON 0-6-22 (EXISTING) - ENCANA WELL - SURVE	8,900.0	7,882.8	983.0	941.9	23.914	SF
JILLSON 11-22 (EXISTING) - ENCANA WELL - GYRO	11,886.1	7,520.3	583.0	493.5	6.515	CC
JILLSON 11-22 (EXISTING) - ENCANA WELL - GYRO	11,900.0	7,520.3	583.2	493.5	6.500	ES
JILLSON 11-22 (EXISTING) - ENCANA WELL - GYRO	12,000.0	7,520.3	594.0	502.6	6.496	SF
JILLSON 1-22 (EXISTING) - ENCANA WELL - NO SURV	11,662.0	7,529.0	620.4	534.8	7.246	CC, ES
JILLSON 1-22 (EXISTING) - ENCANA WELL - NO SURV	11,700.0	7,529.0	621.5	535.3	7.205	SF
JILLSON 12-22 (EXISTING) - ENCANA WELL - GYRO	10,431.0	7,539.9	440.1	375.5	6.816	CC, ES
JILLSON 12-22 (EXISTING) - ENCANA WELL - GYRO	10,500.0	7,541.0	445.5	379.7	6.777	SF
JILLSON 14-22 (EXISTING) - ENCANA WELL - GYRO	355.0	343.8	257.4	256.2	212.214	CC
JILLSON 14-22 (EXISTING) - ENCANA WELL - GYRO	400.0	388.5	257.5	256.2	188.055	ES
JILLSON 14-22 (EXISTING) - ENCANA WELL - GYRO	8,002.3	7,586.2	372.4	344.1	13.151	SF
JILLSON 21-22 (EXISTING) - ENCANA WELL - NO SUR						Out of range
JILLSON 22-22 (EXISTING) - ENCANA WELL - NO SUR	10,545.4	7,565.0	885.8	819.3	13.311	CC, ES
JILLSON 22-22 (EXISTING) - ENCANA WELL - NO SUR	10,700.0	7,565.0	899.2	830.0	12.998	SF
JILLSON 2-8-22 (EXISTING) - ENCANA WELL - SURVE	7,393.4	7,492.2	206.1	172.9	6.224	CC
JILLSON 2-8-22 (EXISTING) - ENCANA WELL - SURVE	7,400.0	7,497.5	206.1	172.9	6.217	ES, SF
JILLSON 3 (EXISTING) - FOUNDATION WELL - NO SU	300.0	283.0	274.5	273.5	275.897	CC, ES
JILLSON 3 (EXISTING) - FOUNDATION WELL - NO SU	5,100.0	5,039.0	571.7	553.9	32.202	SF
JILLSON 4-6-22 (EXISTING) - ENCANA WELL - SURVE						Out of range
JILLSON 4-8-22 (EXISTING) - ENCANA WELL - SURVE						Out of range
JILLSON 6 (EXISTING) - FOUNDATION WELL - NO SU						Out of range
JILLSON GAS UNIT 1 (EXISTING) - ENCANA WELL - N	8,322.6	7,595.0	606.0	574.3	19.156	CC, ES
JILLSON GAS UNIT 1 (EXISTING) - ENCANA WELL - N	8,500.0	7,595.0	631.4	597.5	18.628	SF
Jillson-East Rinn 3A-22H-M268 - Hz - Plan #2	165.6	168.6	40.0	39.5	74.334	CC
Jillson-East Rinn 3A-22H-M268 - Hz - Plan #2	200.0	203.0	40.0	39.3	60.785	ES

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 Jillson-East Rinn 3E-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4963.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4963.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3E-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

Summary

Site Name Offset Well - Wellbore - Design	Reference	Offset	Distance		Separation Factor	Warning
	Measured Depth (ft)	Measured Depth (ft)	Between Centres (ft)	Between Ellipses (ft)		
S22-T2N-R68W (Jillson-East Rinn)						
Jillson-East Rinn 3A-22H-M268 - Hz - Plan #2	15,306.1	15,165.1	799.2	532.5	2.997	SF
Jillson-East Rinn 3B-22H-M268 - Hz - Plan #3	265.6	268.6	29.9	29.0	33.735	CC
Jillson-East Rinn 3B-22H-M268 - Hz - Plan #3	300.0	303.0	29.9	28.9	29.718	ES
Jillson-East Rinn 3B-22H-M268 - Hz - Plan #3	15,306.1	15,299.7	605.1	333.8	2.231	SF
Jillson-East Rinn 3C-22H-M268 - Hz - Plan #2	300.0	303.0	19.9	18.9	19.721	CC, ES
Jillson-East Rinn 3C-22H-M268 - Hz - Plan #2	15,306.1	15,086.7	458.5	220.7	1.928	SF
Jillson-East Rinn 3D-22H-M268 - Hz - Plan #2	300.0	303.0	9.8	8.8	9.777	CC, ES
Jillson-East Rinn 3D-22H-M268 - Hz - Plan #2	15,306.1	15,170.8	243.5	19.2	1.085	Level 2, SF
Jillson-East Rinn 3F-22H-M268 - Hz - Plan #1	262.1	274.1	10.1	9.2	11.578	CC
Jillson-East Rinn 3F-22H-M268 - Hz - Plan #1	400.0	411.8	10.3	9.0	7.643	ES
Jillson-East Rinn 3F-22H-M268 - Hz - Plan #1	800.0	811.2	13.9	11.1	4.913	SF
Jillson-East Rinn 3G-22H-N268 - Hz - Plan #2	13,600.0	13,534.3	454.8	250.5	2.227	CC
Jillson-East Rinn 3G-22H-N268 - Hz - Plan #2	13,700.0	13,634.3	456.5	248.8	2.198	ES
Jillson-East Rinn 3G-22H-N268 - Hz - Plan #2	15,306.1	15,238.3	518.9	255.0	1.966	SF
Jillson-East Rinn 3H-22H-N268 - Hz - Plan #3	13,648.8	13,663.0	686.6	470.7	3.180	CC
Jillson-East Rinn 3H-22H-N268 - Hz - Plan #3	13,900.0	13,900.0	692.1	467.8	3.085	ES
Jillson-East Rinn 3H-22H-N268 - Hz - Plan #3	14,100.0	14,064.1	705.4	474.7	3.058	SF
Jillson-East Rinn 3I-22H-N268 - Hz - Plan #1						Out of range
Jillson-East Rinn 3J-22H-N268 - Hz - Plan #1						Out of range
NYGREN 12-22 (EXISTING) - KERR-MCGEE WELL - N	9,317.8	7,553.0	255.4	209.3	5.538	CC, ES, SF

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3E-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4963.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4963.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3E-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

Offset Design										S22-T2N-R68W (Jillson-East Rinn) - ANDERSON 23-22 (EXISTING) - ENCANA WELL - NO SURVEYS				Offset Site Error:		0.0 ft			
Survey Program: 8160-Geolink MWD																Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance												
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre +N/-S	+E/-W	Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor	Warning						
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)									
9,000.0	7,596.0	7,585.0	7,585.0	28.5	13.2	90.00	1,520.2	1,289.5	994.0	952.8	41.16	24.149							
9,100.0	7,596.0	7,585.0	7,585.0	30.0	13.2	90.00	1,520.2	1,289.5	976.8	934.1	42.72	22.868							
9,200.0	7,596.0	7,585.0	7,585.0	31.6	13.2	90.00	1,520.2	1,289.5	969.7	925.4	44.29	21.893							
9,219.5	7,596.0	7,585.0	7,585.0	31.9	13.2	90.00	1,520.2	1,289.5	969.5	924.9	44.60	21.737 CC, ES							
9,300.0	7,596.0	7,585.0	7,585.0	33.1	13.2	90.00	1,520.2	1,289.5	972.8	926.9	45.88	21.201							
9,400.0	7,596.0	7,585.0	7,585.0	34.7	13.2	90.00	1,520.2	1,289.5	986.1	938.6	47.49	20.764 SF							

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3E-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4963.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4963.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3E-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

Offset Design		S22-T2N-R68W (Jillson-East Rinn) - ANDERSON 31-22 (EXISTING) - KERR-MCGEE WELL - NO SUR										Offset Site Error:		0.0 ft	
Survey Program:		1500-Geolink MWD										Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning	
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre +N/-S	Centre +E/-W	Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor			
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)					
11,000.0	7,596.0	7,625.6	7,523.0	61.4	19.7	-90.00	3,502.9	-646.2	987.1	908.3	78.83	12.522			
11,100.0	7,596.0	7,625.6	7,523.0	63.1	19.7	-90.00	3,502.9	-646.2	971.6	891.0	80.54	12.062			
11,200.0	7,596.0	7,625.6	7,523.0	64.8	19.7	-90.00	3,502.9	-646.2	966.2	883.9	82.26	11.745			
11,202.2	7,596.0	7,625.6	7,523.0	64.8	19.7	-90.00	3,502.9	-646.2	966.2	883.9	82.30	11.740	CC, ES		
11,300.0	7,596.0	7,625.6	7,523.0	66.5	19.7	-90.00	3,502.9	-646.2	971.1	887.1	83.98	11.564			
11,400.0	7,596.0	7,625.6	7,523.0	68.2	19.7	-90.00	3,502.9	-646.2	986.2	900.5	85.70	11.508	SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3E-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4963.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4963.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3E-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - EAST RINN 13-15 (EXISTING) - ENCANA WELL - SURVEYS													Offset Site Error: 0.0 ft
Survey Program: 106-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	
13,700.0	7,596.0	7,905.8	7,523.9	108.0	37.1	-90.40	6,915.4	-72.5	994.6	872.1	122.54	8.117	
13,800.0	7,596.0	7,905.2	7,523.4	109.7	37.1	-90.32	6,915.4	-72.5	901.9	777.7	124.16	7.264	
13,900.0	7,596.0	7,904.7	7,522.9	111.4	37.1	-90.24	6,915.4	-72.5	810.8	684.9	125.91	6.440	
14,000.0	7,596.0	7,904.2	7,522.4	113.2	37.1	-90.16	6,915.4	-72.5	722.1	594.5	127.65	5.657	
14,100.0	7,596.0	7,903.7	7,521.8	114.9	37.1	-90.07	6,915.4	-72.4	636.8	507.4	129.39	4.921	
14,200.0	7,596.0	7,903.2	7,521.3	116.6	37.1	-89.99	6,915.4	-72.4	556.3	425.2	131.14	4.242	
14,300.0	7,596.0	7,902.7	7,520.8	118.4	37.1	-89.90	6,915.4	-72.4	483.3	350.4	132.88	3.637	
14,400.0	7,596.0	7,902.1	7,520.3	120.1	37.1	-89.82	6,915.4	-72.4	421.4	286.8	134.63	3.130	
14,500.0	7,596.0	7,901.6	7,519.8	121.8	37.1	-89.74	6,915.4	-72.4	376.3	239.9	136.37	2.759	
14,600.0	7,596.0	7,901.1	7,519.3	123.6	37.1	-89.65	6,915.4	-72.4	354.5	216.4	138.12	2.566	
14,629.8	7,596.0	7,900.9	7,519.1	124.1	37.1	-89.63	6,915.4	-72.4	353.2	214.6	138.64	2.548	CC, ES, SF
14,700.0	7,596.0	7,900.6	7,518.7	125.3	37.1	-89.57	6,915.4	-72.4	360.1	220.3	139.86	2.575	
14,800.0	7,596.0	7,900.1	7,518.2	127.1	37.1	-89.48	6,915.4	-72.4	392.1	250.5	141.61	2.769	
14,900.0	7,596.0	7,899.5	7,517.7	128.8	37.1	-89.40	6,915.4	-72.4	444.7	301.3	143.35	3.102	
15,000.0	7,596.0	7,899.0	7,517.2	130.5	37.1	-89.31	6,915.4	-72.4	511.6	366.6	145.10	3.526	
15,100.0	7,596.0	7,898.5	7,516.6	132.3	37.1	-89.23	6,915.4	-72.4	588.1	441.2	146.84	4.005	
15,200.0	7,596.0	7,898.0	7,516.1	134.0	37.1	-89.14	6,915.4	-72.4	670.7	522.1	148.59	4.514	
15,300.0	7,596.0	7,897.4	7,515.6	135.8	37.1	-89.06	6,915.4	-72.4	757.5	607.2	150.33	5.039	
15,306.1	7,596.0	7,897.4	7,515.6	135.9	37.1	-89.05	6,915.4	-72.4	762.9	612.5	150.44	5.072	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3E-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4963.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4963.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3E-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

Offset Design											S22-T2N-R68W (Jillson-East Rinn) - EAST RINN 15-14 (EXISTING) AL - VESSELS WELL - NO SURVE			Offset Site Error:		0.0 ft
Survey Program:											7570-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				
13,000.0	7,596.0	7,513.0	7,513.0	95.8	13.1	90.00	5,598.6	1,243.1	970.0	861.3	108.75	8.919				
13,100.0	7,596.0	7,513.0	7,513.0	97.5	13.1	90.00	5,598.6	1,243.1	944.1	833.6	110.49	8.545				
13,200.0	7,596.0	7,513.0	7,513.0	99.3	13.1	90.00	5,598.6	1,243.1	928.3	816.1	112.23	8.272				
13,297.9	7,596.0	7,513.0	7,513.0	101.0	13.1	90.00	5,598.6	1,243.1	923.1	809.2	113.93	8.102 CC				
13,300.0	7,596.0	7,513.0	7,513.0	101.0	13.1	90.00	5,598.6	1,243.1	923.1	809.2	113.97	8.100 ES				
13,400.0	7,596.0	7,513.0	7,513.0	102.7	13.1	90.00	5,598.6	1,243.1	928.8	813.0	115.71	8.027 SF				
13,500.0	7,596.0	7,513.0	7,513.0	104.5	13.1	90.00	5,598.6	1,243.1	945.0	827.5	117.45	8.046				
13,600.0	7,596.0	7,513.0	7,513.0	106.2	13.1	90.00	5,598.6	1,243.1	971.3	852.1	119.18	8.150				

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3E-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4963.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4963.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3E-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

S22-T2N-R68W (Jillson-East Rinn) - EAST RINN 23-15 (EXISTING) - ENCANA WELL - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 735-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth 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		
14,500.0	7,596.0	7,568.9	7,525.9	121.8	16.3	90.46	6,928.2	1,267.6	990.2	855.0	135.27	7.320		
14,588.2	7,596.0	7,567.7	7,524.7	123.4	16.3	90.39	6,928.2	1,267.6	986.3	849.5	136.81	7.209 CC		
14,600.0	7,596.0	7,567.6	7,524.6	123.6	16.3	90.38	6,928.2	1,267.6	986.4	849.3	137.02	7.199 ES		
14,700.0	7,596.0	7,566.2	7,523.2	125.3	16.3	90.30	6,928.2	1,267.6	992.6	853.8	138.76	7.153 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3E-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4963.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4963.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3E-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - EAST RINN 2-4-15 (EXISTING) - ENCANA WELL - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 106-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)				
14,400.0	7,596.0	7,684.6	7,529.0	120.1	23.8	91.07	7,564.6	664.0	942.0	808.2	133.87	7.037		
14,500.0	7,596.0	7,684.1	7,528.6	121.8	23.8	91.00	7,564.6	664.0	853.1	717.4	135.62	6.290		
14,600.0	7,596.0	7,683.7	7,528.1	123.6	23.8	90.94	7,564.6	664.0	766.8	629.4	137.36	5.582		
14,700.0	7,596.0	7,683.2	7,527.6	125.3	23.8	90.87	7,564.6	664.0	684.3	545.2	139.11	4.919		
14,800.0	7,596.0	7,682.7	7,527.2	127.1	23.8	90.81	7,564.6	664.0	607.1	466.2	140.85	4.310		
14,900.0	7,596.0	7,682.3	7,526.7	128.8	23.8	90.74	7,564.6	664.0	537.4	394.8	142.60	3.769		
15,000.0	7,596.0	7,681.8	7,526.2	130.5	23.8	90.68	7,564.6	664.0	478.6	334.3	144.34	3.316		
15,100.0	7,596.0	7,681.3	7,525.8	132.3	23.8	90.61	7,564.6	664.0	435.2	289.1	146.09	2.979		
15,200.0	7,596.0	7,680.9	7,525.3	134.0	23.8	90.55	7,564.6	664.0	411.9	264.1	147.83	2.786		
15,248.6	7,596.0	7,680.6	7,525.1	134.9	23.8	90.51	7,564.6	664.0	409.0	260.3	148.68	2.751	CC, ES, SF	
15,300.0	7,596.0	7,680.4	7,524.8	135.8	23.8	90.48	7,564.6	664.0	412.2	262.6	149.58	2.756		
15,306.1	7,596.0	7,680.4	7,524.8	135.9	23.8	90.48	7,564.6	664.0	413.0	263.3	149.68	2.759		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3E-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4963.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4963.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3E-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - EAST RINN 2-8-15 (EXISTING) - ENCANA WELL - SURVEYS												Offset Site Error:	0.0 ft
Survey Program: 136-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
11,800.0	7,596.0	8,097.6	7,504.1	75.1	47.1	85.61	5,064.2	545.4	989.7	873.1	116.59	8.488	
11,900.0	7,596.0	8,099.4	7,505.9	76.8	47.1	86.05	5,064.2	545.4	892.6	774.2	118.38	7.540	
12,000.0	7,596.0	8,101.1	7,507.6	78.5	47.1	86.50	5,064.3	545.4	796.3	676.1	120.16	6.626	
12,100.0	7,596.0	8,102.8	7,509.3	80.2	47.1	86.93	5,064.3	545.4	700.9	579.0	121.94	5.748	
12,200.0	7,596.0	8,104.5	7,511.0	82.0	47.1	87.37	5,064.3	545.4	607.1	483.4	123.72	4.907	
12,300.0	7,596.0	8,106.2	7,512.7	83.7	47.1	87.79	5,064.4	545.4	515.6	390.1	125.49	4.109	
12,400.0	7,596.0	8,107.9	7,514.4	85.4	47.1	88.22	5,064.4	545.4	427.9	300.7	127.26	3.363	
12,500.0	7,596.0	8,109.6	7,516.0	87.1	47.1	88.64	5,064.4	545.4	347.0	218.0	129.02	2.689	
12,600.0	7,596.0	8,111.2	7,517.7	88.9	47.1	89.05	5,064.4	545.4	278.7	147.9	130.77	2.131	
12,700.0	7,596.0	8,112.8	7,519.3	90.6	47.1	89.46	5,064.5	545.4	234.3	101.8	132.52	1.768	
12,763.8	7,596.0	8,113.8	7,520.3	91.7	47.1	89.72	5,064.5	545.5	225.5	91.8	133.63	1.687 CC, ES, SF	
12,800.0	7,596.0	8,114.4	7,520.9	92.3	47.1	89.87	5,064.5	545.5	228.3	94.1	134.26	1.701	
12,900.0	7,596.0	8,116.0	7,522.5	94.1	47.1	90.27	5,064.5	545.5	263.4	127.4	136.00	1.937	
13,000.0	7,596.0	8,117.6	7,524.0	95.8	47.1	90.67	5,064.5	545.5	326.5	188.8	137.73	2.371	
13,100.0	7,596.0	8,119.1	7,525.6	97.5	47.1	91.07	5,064.6	545.5	404.8	265.3	139.46	2.902	
13,200.0	7,596.0	8,120.7	7,527.1	99.3	47.1	91.46	5,064.6	545.5	491.0	349.8	141.18	3.478	
13,300.0	7,596.0	8,122.2	7,528.7	101.0	47.1	91.84	5,064.6	545.5	581.6	438.7	142.90	4.070	
13,400.0	7,596.0	8,123.7	7,530.2	102.7	47.1	92.22	5,064.6	545.5	674.9	530.3	144.61	4.667	
13,500.0	7,596.0	8,125.2	7,531.7	104.5	47.1	92.60	5,064.7	545.5	769.9	623.6	146.31	5.262	
13,600.0	7,596.0	8,126.6	7,533.1	106.2	47.1	92.98	5,064.7	545.5	866.0	718.0	147.99	5.852	
13,700.0	7,596.0	8,128.1	7,534.6	108.0	47.1	93.88	5,064.7	545.5	963.3	814.6	148.63	6.481	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3E-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4963.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4963.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3E-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - EAST RINN 3-6-15 (EXISTING) - ENCANA WELL - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 136-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor			
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)				
13,200.0	7,596.0	7,706.9	7,516.9	99.3	26.9	89.65	6,165.2	1,063.0	996.8	873.5	123.30	8.085		
13,300.0	7,596.0	7,707.5	7,517.5	101.0	26.9	89.70	6,165.2	1,063.0	933.1	808.1	125.04	7.463		
13,400.0	7,596.0	7,708.1	7,518.1	102.7	26.9	89.75	6,165.2	1,063.0	876.3	749.5	126.78	6.912		
13,500.0	7,596.0	7,708.7	7,518.7	104.5	26.9	89.79	6,165.2	1,063.0	827.6	699.1	128.52	6.440		
13,600.0	7,596.0	7,709.3	7,519.3	106.2	26.9	89.84	6,165.2	1,063.0	788.7	658.4	130.25	6.055		
13,700.0	7,596.0	7,710.0	7,519.9	108.0	26.9	89.89	6,165.2	1,063.0	762.8	631.4	131.38	5.806		
13,800.0	7,596.0	7,710.6	7,520.5	109.7	26.9	89.93	6,165.2	1,063.0	751.6	618.6	133.02	5.650		
13,834.2	7,596.0	7,710.8	7,520.7	110.3	26.9	89.95	6,165.2	1,063.0	750.8	617.2	133.62	5.619 CC, ES		
13,900.0	7,596.0	7,711.2	7,521.1	111.4	26.9	89.98	6,165.2	1,063.0	753.7	619.0	134.76	5.593 SF		
14,000.0	7,596.0	7,711.8	7,521.7	113.2	26.9	90.03	6,165.2	1,063.0	768.9	632.4	136.51	5.633		
14,100.0	7,596.0	7,712.4	7,522.3	114.9	26.9	90.07	6,165.2	1,063.0	796.5	658.3	138.25	5.761		
14,200.0	7,596.0	7,713.0	7,522.9	116.6	26.9	90.12	6,165.2	1,063.0	835.2	695.2	139.99	5.966		
14,300.0	7,596.0	7,713.5	7,523.5	118.4	26.9	90.16	6,165.2	1,063.0	883.6	741.9	141.74	6.234		
14,400.0	7,596.0	7,714.1	7,524.1	120.1	26.9	90.21	6,165.2	1,063.0	940.2	796.7	143.48	6.553		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3E-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4963.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4963.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3E-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - EAST RINN H UNIT 1 (EXISTING) - ENCANA WELL - NO SURVE													Offset Site Error:	0.0 ft
Survey Program: 8264-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		
12,700.0	7,596.0	7,510.0	7,510.0	90.6	13.1	-90.00	5,941.4	194.3	949.1	845.5	103.54	9.166		
12,800.0	7,596.0	7,510.0	7,510.0	92.3	13.1	-90.00	5,941.4	194.3	850.0	744.8	105.28	8.074		
12,900.0	7,596.0	7,510.0	7,510.0	94.1	13.1	-90.00	5,941.4	194.3	751.3	644.3	107.01	7.021		
13,000.0	7,596.0	7,510.0	7,510.0	95.8	13.1	-90.00	5,941.4	194.3	652.9	544.2	108.75	6.004		
13,100.0	7,596.0	7,510.0	7,510.0	97.5	13.1	-90.00	5,941.4	194.3	555.1	444.6	110.49	5.024		
13,200.0	7,596.0	7,510.0	7,510.0	99.3	13.1	-90.00	5,941.4	194.3	458.3	346.1	112.22	4.084		
13,300.0	7,596.0	7,510.0	7,510.0	101.0	13.1	-90.00	5,941.4	194.3	363.1	249.2	113.96	3.187		
13,400.0	7,596.0	7,510.0	7,510.0	102.7	13.1	-90.00	5,941.4	194.3	271.5	155.8	115.70	2.347		
13,500.0	7,596.0	7,510.0	7,510.0	104.5	13.1	-90.00	5,941.4	194.3	188.7	71.2	117.44	1.606		
13,600.0	7,596.0	7,510.0	7,510.0	106.2	13.1	-90.00	5,941.4	194.3	132.1	12.9	119.18	1.108 Level 2		
13,642.6	7,596.0	7,510.0	7,510.0	107.0	13.1	-90.00	5,941.4	194.3	125.4	5.5	119.83	1.046 Level 2, CC, ES, SF		
13,700.0	7,596.0	7,510.0	7,510.0	108.0	13.1	-90.00	5,941.4	194.3	137.3	16.7	120.66	1.138 Level 2		
13,800.0	7,596.0	7,510.0	7,510.0	109.7	13.1	-90.00	5,941.4	194.3	199.3	76.9	122.36	1.629		
13,900.0	7,596.0	7,510.0	7,510.0	111.4	13.1	-90.00	5,941.4	194.3	283.8	159.7	124.10	2.287		
14,000.0	7,596.0	7,510.0	7,510.0	113.2	13.1	-90.00	5,941.4	194.3	376.0	250.2	125.84	2.988		
14,100.0	7,596.0	7,510.0	7,510.0	114.9	13.1	-90.00	5,941.4	194.3	471.4	343.8	127.58	3.695		
14,200.0	7,596.0	7,510.0	7,510.0	116.6	13.1	-90.00	5,941.4	194.3	568.4	439.1	129.32	4.395		
14,300.0	7,596.0	7,510.0	7,510.0	118.4	13.1	-90.00	5,941.4	194.3	666.3	535.2	131.07	5.083		
14,400.0	7,596.0	7,510.0	7,510.0	120.1	13.1	-90.00	5,941.4	194.3	764.7	631.9	132.81	5.758		
14,500.0	7,596.0	7,510.0	7,510.0	121.8	13.1	-90.00	5,941.4	194.3	863.5	728.9	134.55	6.417		
14,600.0	7,596.0	7,510.0	7,510.0	123.6	13.1	-90.00	5,941.4	194.3	962.5	826.2	136.30	7.062		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3E-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4963.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4963.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3E-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - JILLSON 0-6-22 (EXISTING) - ENCANA WELL - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 73-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth 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		
1,700.0	1,697.4	1,951.3	1,899.0	3.3	7.8	-103.59	728.8	623.4	991.3	980.5	10.84	91.443		
1,800.0	1,797.1	2,048.6	1,989.4	3.5	8.5	-105.82	733.1	587.7	974.8	963.1	11.72	83.174		
1,900.0	1,896.9	2,152.1	2,085.4	3.7	9.2	-108.28	736.4	549.1	958.4	945.8	12.65	75.774		
2,000.0	1,996.7	2,232.2	2,159.8	3.9	9.7	-110.19	738.8	519.8	943.9	930.5	13.41	70.403		
2,100.0	2,096.4	2,311.7	2,234.1	4.1	10.3	-112.10	741.6	491.5	932.1	917.9	14.16	65.824		
2,200.0	2,196.2	2,387.0	2,304.7	4.3	10.7	-113.92	745.6	465.6	923.6	908.7	14.88	62.083		
2,300.0	2,296.0	2,464.4	2,377.2	4.6	11.3	-115.86	751.1	438.9	918.3	902.6	15.64	58.713		
2,400.0	2,395.7	2,558.6	2,464.6	4.8	12.0	-118.37	758.9	404.5	915.1	898.6	16.55	55.286		
2,486.0	2,481.5	2,630.0	2,530.3	5.0	12.5	-120.34	765.2	377.5	914.1	896.8	17.26	52.952 CC		
2,500.0	2,495.5	2,641.5	2,540.9	5.0	12.6	-120.66	766.3	373.1	914.1	896.7	17.38	52.607		
2,600.0	2,595.3	2,749.4	2,639.9	5.2	13.4	-123.69	775.4	331.3	914.5	896.2	18.38	49.761 ES		
2,700.0	2,695.0	2,830.4	2,714.6	5.4	14.0	-125.90	781.8	300.7	916.9	897.8	19.12	47.950		
2,800.0	2,794.8	2,942.4	2,818.7	5.6	14.7	-128.84	789.4	259.9	920.5	900.5	20.02	45.970		
2,900.0	2,894.6	3,046.2	2,915.8	5.8	15.4	-131.42	794.1	223.7	924.2	903.4	20.82	44.385		
3,000.0	2,994.3	3,127.7	2,991.9	6.0	16.0	-133.46	797.5	194.7	929.4	907.9	21.49	43.249		
3,100.0	3,094.1	3,197.2	3,056.6	6.2	16.5	-135.23	801.9	169.5	938.1	916.0	22.07	42.499		
3,200.0	3,193.9	3,267.8	3,122.0	6.5	17.0	-137.00	808.0	143.7	950.7	928.1	22.65	41.979		
3,300.0	3,293.6	3,364.2	3,211.1	6.7	17.7	-139.41	816.9	108.0	965.6	942.2	23.34	41.364		
3,400.0	3,393.4	3,451.2	3,291.1	6.9	18.4	-141.58	824.6	74.8	981.9	958.0	23.97	40.967		
8,300.0	7,596.0	7,877.2	7,600.3	19.0	32.8	-89.20	908.1	-618.4	987.5	954.7	32.81	30.099		
8,400.0	7,596.0	7,878.1	7,601.2	20.1	32.8	-89.26	908.1	-618.4	961.1	927.1	34.04	28.233		
8,500.0	7,596.0	7,879.1	7,602.1	21.4	32.8	-89.32	908.1	-618.4	944.6	909.3	35.35	26.721		
8,600.0	7,596.0	7,880.0	7,603.1	22.7	32.8	-89.37	908.1	-618.4	938.5	901.8	36.72	25.557		
8,607.4	7,596.0	7,880.1	7,603.1	22.8	32.8	-89.38	908.1	-618.4	938.5	901.7	36.83	25.484		
8,700.0	7,596.0	7,880.9	7,604.0	24.1	32.8	-89.43	908.1	-618.4	943.1	904.9	38.14	24.724		
8,800.0	7,596.0	7,881.8	7,604.9	25.5	32.8	-89.49	908.1	-618.5	958.1	918.4	39.61	24.188		
8,900.0	7,596.0	7,882.8	7,605.8	27.0	32.8	-89.54	908.1	-618.5	983.0	941.9	41.11	23.914 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3E-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4963.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4963.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3E-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - JILLSON 11-22 (EXISTING) - ENCANA WELL - GYRO													Offset Site Error:	0.0 ft
Survey Program: 100-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		
11,100.0	7,596.0	7,520.3	7,518.5	63.1	13.3	-90.15	4,186.8	-263.0	978.7	902.7	75.95	12.886		
11,200.0	7,596.0	7,520.3	7,518.5	64.8	13.3	-90.15	4,186.8	-263.0	900.3	822.7	77.67	11.593		
11,300.0	7,596.0	7,520.3	7,518.5	66.5	13.3	-90.15	4,186.8	-263.0	826.7	747.3	79.38	10.414		
11,400.0	7,596.0	7,520.3	7,518.5	68.2	13.3	-90.15	4,186.8	-263.0	759.1	678.0	81.10	9.359		
11,500.0	7,596.0	7,520.3	7,518.5	69.9	13.3	-90.15	4,186.8	-263.0	699.3	616.4	82.82	8.443		
11,600.0	7,596.0	7,520.3	7,518.5	71.6	13.3	-90.14	4,186.8	-263.0	649.4	564.9	84.55	7.681		
11,700.0	7,596.0	7,520.3	7,518.5	73.3	13.3	-90.14	4,186.8	-263.0	612.0	525.7	86.27	7.094		
11,800.0	7,596.0	7,520.3	7,518.5	75.1	13.3	-90.14	4,186.8	-263.0	589.3	501.3	88.00	6.697		
11,886.1	7,596.0	7,520.3	7,518.5	76.5	13.3	-90.14	4,186.8	-263.0	583.0	493.5	89.48	6.515 CC		
11,900.0	7,596.0	7,520.3	7,518.5	76.8	13.3	-90.14	4,186.8	-263.0	583.2	493.5	89.72	6.500 ES		
12,000.0	7,596.0	7,520.3	7,518.5	78.5	13.3	-90.14	4,186.8	-263.0	594.0	502.6	91.45	6.496 SF		
12,100.0	7,596.0	7,520.3	7,518.5	80.2	13.3	-90.14	4,186.8	-263.0	621.0	527.8	93.18	6.665		
12,200.0	7,596.0	7,520.3	7,518.5	82.0	13.3	-90.14	4,186.8	-263.0	662.2	567.2	94.91	6.977		
12,300.0	7,596.0	7,520.3	7,518.4	83.7	13.3	-90.14	4,186.8	-263.0	715.0	618.4	96.64	7.399		
12,400.0	7,596.0	7,520.3	7,518.4	85.4	13.3	-90.14	4,186.8	-263.0	777.2	678.8	98.37	7.900		
12,500.0	7,596.0	7,520.3	7,518.4	87.1	13.3	-90.14	4,186.8	-263.0	846.6	746.5	100.11	8.457		
12,600.0	7,596.0	7,520.3	7,518.4	88.9	13.3	-90.14	4,186.8	-263.0	921.7	819.9	101.84	9.051		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3E-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4963.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4963.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3E-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - JILLSON 1-22 (EXISTING) - ENCANA WELL - NO SURVEYS												Offset Site Error:	0.0 ft
Survey Program: 8376-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
10,900.0	7,596.0	7,529.0	7,529.0	59.7	13.1	90.00	3,962.7	940.4	982.6	910.0	72.53	13.548	
11,000.0	7,596.0	7,529.0	7,529.0	61.4	13.1	90.00	3,962.7	940.4	907.2	833.0	74.24	12.221	
11,100.0	7,596.0	7,529.0	7,529.0	63.1	13.1	90.00	3,962.7	940.4	837.1	761.1	75.95	11.021	
11,200.0	7,596.0	7,529.0	7,529.0	64.8	13.1	90.00	3,962.7	940.4	773.5	695.8	77.67	9.959	
11,300.0	7,596.0	7,529.0	7,529.0	66.5	13.1	90.00	3,962.7	940.4	718.2	638.9	79.38	9.048	
11,400.0	7,596.0	7,529.0	7,529.0	68.2	13.1	90.00	3,962.7	940.4	673.4	592.3	81.10	8.303	
11,500.0	7,596.0	7,529.0	7,529.0	69.9	13.1	90.00	3,962.7	940.4	641.2	558.3	82.82	7.741	
11,600.0	7,596.0	7,529.0	7,529.0	71.6	13.1	90.00	3,962.7	940.4	623.5	538.9	84.55	7.374	
11,662.0	7,596.0	7,529.0	7,529.0	72.7	13.1	90.00	3,962.7	940.4	620.4	534.8	85.61	7.246 CC, ES	
11,700.0	7,596.0	7,529.0	7,529.0	73.3	13.1	90.00	3,962.7	940.4	621.5	535.3	86.27	7.205 SF	
11,800.0	7,596.0	7,529.0	7,529.0	75.1	13.1	90.00	3,962.7	940.4	635.6	547.6	88.00	7.223	
11,900.0	7,596.0	7,529.0	7,529.0	76.8	13.1	90.00	3,962.7	940.4	664.5	574.8	89.72	7.406	
12,000.0	7,596.0	7,529.0	7,529.0	78.5	13.1	90.00	3,962.7	940.4	706.5	615.1	91.45	7.726	
12,100.0	7,596.0	7,529.0	7,529.0	80.2	13.1	90.00	3,962.7	940.4	759.4	666.3	93.18	8.150	
12,200.0	7,596.0	7,529.0	7,529.0	82.0	13.1	90.00	3,962.7	940.4	821.2	726.3	94.91	8.652	
12,300.0	7,596.0	7,529.0	7,529.0	83.7	13.1	90.00	3,962.7	940.4	889.9	793.3	96.64	9.209	
12,400.0	7,596.0	7,529.0	7,529.0	85.4	13.1	90.00	3,962.7	940.4	964.1	865.8	98.37	9.801	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3E-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4963.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4963.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3E-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - JILLSON 12-22 (EXISTING) - ENCANA WELL - GYRO													Offset Site Error:	0.0 ft
Survey Program: 100-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth Depth (ft)	Vertical Depth (ft)	Measured Depth 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		
9,600.0	7,596.0	7,526.3	7,524.3	37.9	13.3	-88.35	2,731.5	-120.1	940.3	889.7	50.64	18.570		
9,700.0	7,596.0	7,527.9	7,526.0	39.6	13.3	-88.56	2,731.6	-120.1	853.2	800.9	52.29	16.318		
9,800.0	7,596.0	7,529.6	7,527.6	41.2	13.3	-88.78	2,731.6	-120.1	769.3	715.3	53.95	14.260		
9,900.0	7,596.0	7,531.2	7,529.2	42.8	13.3	-88.99	2,731.6	-120.1	689.7	634.0	55.62	12.401		
10,000.0	7,596.0	7,532.8	7,530.9	44.5	13.3	-89.20	2,731.6	-120.1	616.0	558.7	57.29	10.752		
10,100.0	7,596.0	7,534.5	7,532.5	46.2	13.3	-89.41	2,731.7	-120.1	550.7	491.7	58.97	9.338		
10,200.0	7,596.0	7,536.1	7,534.1	47.8	13.3	-89.63	2,731.7	-120.1	497.1	436.4	60.66	8.195		
10,300.0	7,596.0	7,537.7	7,535.8	49.5	13.3	-89.84	2,731.7	-120.1	459.2	396.9	62.35	7.365		
10,400.0	7,596.0	7,539.4	7,537.4	51.2	13.3	-90.05	2,731.7	-120.1	441.2	377.2	64.04	6.890		
10,431.0	7,596.0	7,539.9	7,537.9	51.7	13.3	-90.12	2,731.7	-120.1	440.1	375.5	64.57	6.816 CC, ES		
10,500.0	7,596.0	7,541.0	7,539.0	52.9	13.3	-90.26	2,731.8	-120.1	445.5	379.7	65.74	6.777 SF		
10,600.0	7,596.0	7,542.6	7,540.7	54.6	13.3	-90.48	2,731.8	-120.1	471.4	404.0	67.44	6.990		
10,700.0	7,596.0	7,544.3	7,542.3	56.3	13.3	-90.69	2,731.8	-120.1	515.8	446.6	69.14	7.460		
10,800.0	7,596.0	7,545.9	7,543.9	58.0	13.3	-90.90	2,731.8	-120.1	574.3	503.4	70.84	8.106		
10,900.0	7,596.0	7,547.5	7,545.6	59.7	13.3	-91.12	2,731.9	-120.1	643.1	570.5	72.55	8.864		
11,000.0	7,596.0	7,549.2	7,547.2	61.4	13.3	-91.33	2,731.9	-120.1	719.3	645.0	74.26	9.686		
11,100.0	7,596.0	7,550.8	7,548.9	63.1	13.3	-91.54	2,731.9	-120.1	800.7	724.7	75.97	10.540		
11,200.0	7,596.0	7,552.5	7,550.5	64.8	13.3	-91.76	2,731.9	-120.1	885.9	808.2	77.68	11.405		
11,300.0	7,596.0	7,554.1	7,552.1	66.5	13.3	-91.97	2,732.0	-120.1	974.0	894.6	79.39	12.268		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3E-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4963.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4963.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3E-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - JILLSON 14-22 (EXISTING) - ENCANA WELL - GYRO													Offset Site Error:	0.0 ft
Survey Program: 100-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	5.05	259.7	22.9	261.1					
100.0	100.0	90.9	90.9	0.2	0.2	5.31	258.9	24.1	260.1	259.8	0.32	816.186		
200.0	200.0	190.3	190.3	0.3	0.3	5.93	257.2	26.7	258.6	258.0	0.67	383.797		
300.0	300.0	289.2	289.1	0.5	0.5	6.45	256.0	28.9	257.6	256.6	1.02	251.725		
355.0	355.0	343.8	343.7	0.6	0.6	-132.06	255.5	29.8	257.4	256.2	1.21	212.214 CC		
400.0	400.0	388.5	388.3	0.7	0.7	-132.03	255.1	30.3	257.5	256.2	1.37	188.055 ES		
500.0	500.0	487.4	487.3	0.9	0.9	-132.26	254.7	31.1	258.9	257.2	1.72	150.787		
600.0	599.9	587.9	587.7	1.0	1.0	-132.88	254.5	31.4	261.7	259.6	2.07	126.390		
700.0	699.7	687.8	687.7	1.2	1.2	-133.86	254.1	31.2	265.5	263.1	2.43	109.402		
800.0	799.4	787.1	787.0	1.4	1.4	-135.00	253.9	30.6	270.0	267.2	2.78	96.957		
900.0	899.2	887.0	886.9	1.6	1.6	-136.14	253.7	30.0	274.7	271.5	3.14	87.353		
1,000.0	999.0	985.7	985.6	1.8	1.7	-137.28	253.7	29.1	279.5	276.0	3.50	79.827		
1,100.0	1,098.7	1,085.8	1,085.7	2.1	1.9	-138.44	253.8	27.9	284.7	280.8	3.86	73.733		
1,200.0	1,198.5	1,185.1	1,185.0	2.3	2.1	-139.59	253.9	26.6	289.9	285.7	4.22	68.715		
1,300.0	1,298.3	1,284.1	1,283.9	2.5	2.2	-140.74	254.1	25.1	295.5	290.9	4.58	64.570		
1,400.0	1,398.1	1,384.1	1,383.9	2.7	2.4	-141.85	254.5	23.5	301.2	296.3	4.93	61.054		
1,500.0	1,497.8	1,483.7	1,483.5	2.9	2.6	-142.92	254.8	22.0	307.0	301.7	5.29	58.028		
1,600.0	1,597.6	1,583.5	1,583.3	3.1	2.8	-143.94	255.1	20.5	312.9	307.3	5.65	55.410		
1,700.0	1,697.4	1,683.3	1,683.1	3.3	2.9	-144.92	255.3	19.0	318.9	312.9	6.00	53.113		
1,800.0	1,797.1	1,782.7	1,782.5	3.5	3.1	-145.84	255.6	17.6	324.9	318.5	6.36	51.099		
1,900.0	1,896.9	1,883.9	1,883.7	3.7	3.3	-146.73	255.8	16.3	330.9	324.2	6.72	49.275		
2,000.0	1,996.7	1,985.0	1,984.8	3.9	3.5	-147.52	255.5	15.5	336.5	329.4	7.07	47.579		
2,100.0	2,096.4	2,085.2	2,085.0	4.1	3.6	-148.23	255.0	15.0	341.8	334.4	7.43	46.027		
2,200.0	2,196.2	2,184.8	2,184.6	4.3	3.8	-148.92	254.4	14.5	347.2	339.4	7.78	44.628		
2,300.0	2,296.0	2,283.5	2,283.3	4.6	4.0	-149.63	254.0	13.6	352.8	344.7	8.13	43.390		
2,400.0	2,395.7	2,383.1	2,382.9	4.8	4.2	-150.37	253.8	12.5	358.6	350.2	8.48	42.281		
2,500.0	2,495.5	2,483.2	2,482.9	5.0	4.3	-151.11	253.4	11.2	364.5	355.7	8.83	41.259		
2,600.0	2,595.3	2,583.0	2,582.7	5.2	4.5	-151.87	252.9	9.7	370.4	361.2	9.19	40.320		
2,700.0	2,695.0	2,682.5	2,682.3	5.4	4.7	-152.59	252.5	8.2	376.3	366.8	9.54	39.461		
2,800.0	2,794.8	2,781.8	2,781.5	5.6	4.9	-153.31	252.1	6.6	382.4	372.5	9.89	38.679		
2,900.0	2,894.6	2,882.0	2,881.7	5.8	5.0	-154.04	251.6	4.7	388.5	378.3	10.24	37.954		
3,000.0	2,994.3	2,981.1	2,980.7	6.0	5.2	-154.75	251.1	2.9	394.7	384.1	10.58	37.288		
3,100.0	3,094.1	3,080.6	3,080.2	6.2	5.4	-155.42	250.8	1.1	401.1	390.1	10.93	36.682		
3,200.0	3,193.9	3,181.2	3,180.8	6.5	5.6	-156.05	250.5	-0.5	407.4	396.1	11.28	36.105		
3,300.0	3,293.6	3,280.9	3,280.5	6.7	5.7	-156.63	250.0	-1.8	413.7	402.0	11.63	35.558		
3,400.0	3,393.4	3,379.2	3,378.8	6.9	5.9	-157.18	249.7	-3.2	420.1	408.1	11.98	35.067		
3,500.0	3,493.2	3,477.7	3,477.3	7.1	6.1	-157.77	249.7	-5.0	426.9	414.6	12.33	34.635		
3,600.0	3,593.0	3,577.4	3,577.0	7.3	6.3	-158.34	249.8	-7.0	433.9	421.3	12.67	34.238		
3,700.0	3,692.7	3,676.7	3,676.3	7.5	6.4	-158.87	249.9	-8.7	441.0	428.0	13.02	33.865		
3,800.0	3,792.5	3,775.4	3,775.0	7.7	6.6	-159.37	250.2	-10.3	448.2	434.9	13.37	33.530		
3,900.0	3,892.3	3,874.2	3,873.7	7.9	6.8	-159.81	250.8	-11.8	455.7	442.0	13.71	33.230		
4,000.0	3,992.0	3,971.5	3,971.1	8.1	7.0	-160.22	251.8	-13.2	463.5	449.5	14.06	32.973		
4,100.0	4,091.8	4,069.7	4,069.3	8.4	7.1	-160.62	253.1	-14.9	471.9	457.5	14.40	32.760		
4,200.0	4,191.6	4,167.0	4,166.4	8.6	7.3	-161.02	254.7	-16.7	480.5	465.8	14.75	32.584		
4,300.0	4,291.3	4,260.7	4,260.1	8.8	7.5	-161.39	256.9	-18.8	490.0	474.9	15.08	32.483		
4,400.0	4,391.1	4,356.9	4,356.2	9.0	7.6	-161.73	260.3	-21.2	500.6	485.2	15.43	32.454		
4,500.0	4,490.9	4,455.9	4,455.2	9.2	7.8	-162.06	264.0	-23.6	511.5	495.7	15.77	32.431		
4,600.0	4,590.6	4,556.0	4,555.1	9.4	8.0	-162.37	267.8	-26.0	522.4	506.3	16.12	32.406		
4,700.0	4,690.4	4,657.4	4,656.5	9.6	8.2	-162.66	271.3	-28.3	533.0	516.5	16.47	32.362		
4,800.0	4,790.2	4,758.9	4,757.9	9.8	8.4	-162.94	274.5	-30.4	543.2	526.4	16.82	32.296		
4,900.0	4,889.9	4,860.1	4,859.0	10.0	8.5	-163.20	277.5	-32.3	553.1	535.9	17.17	32.214		
5,000.0	4,989.7	4,960.8	4,959.7	10.3	8.7	-163.47	280.1	-34.1	562.7	545.2	17.52	32.122		

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 Jillson-East Rinn 3E-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4963.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4963.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3E-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - JILLSON 14-22 (EXISTING) - ENCANA WELL - GYRO													Offset Site Error:	0.0 ft
Survey Program: 100-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)				
5,100.0	5,089.5	5,061.4	5,060.2	10.5	8.9	-163.73	282.5	-36.0	572.2	554.3	17.87	32.024		
5,200.0	5,189.2	5,162.1	5,160.9	10.7	9.1	-163.98	284.7	-37.6	581.5	563.2	18.22	31.920		
5,300.0	5,289.0	5,262.1	5,260.9	10.9	9.3	-164.21	286.8	-39.2	590.6	572.0	18.56	31.813		
5,400.0	5,388.8	5,361.9	5,360.7	11.1	9.4	-164.42	289.0	-40.6	599.7	580.8	18.91	31.710		
5,500.0	5,488.5	5,462.2	5,460.8	11.3	9.6	-164.62	291.1	-41.9	608.7	589.4	19.26	31.606		
5,600.0	5,588.3	5,563.0	5,561.7	11.5	9.8	-164.80	293.2	-43.0	617.6	598.0	19.61	31.496		
5,700.0	5,688.1	5,663.7	5,662.3	11.7	10.0	-164.97	295.0	-44.0	626.3	606.3	19.96	31.380		
5,800.0	5,787.8	5,763.2	5,761.8	11.9	10.2	-165.13	296.8	-45.0	634.9	614.6	20.30	31.267		
5,900.0	5,887.6	5,868.5	5,867.1	12.2	10.3	-165.30	298.5	-45.9	643.2	622.6	20.66	31.132		
6,000.0	5,987.4	5,971.3	5,969.9	12.4	10.5	-165.45	299.2	-46.1	650.6	629.6	21.01	30.960		
6,100.0	6,087.2	6,072.6	6,071.2	12.6	10.7	-165.59	299.8	-46.3	657.8	636.4	21.36	30.789		
6,200.0	6,186.9	6,172.0	6,170.6	12.8	10.9	-165.74	300.2	-46.5	664.8	643.1	21.71	30.620		
6,300.0	6,286.7	6,271.7	6,270.3	13.0	11.0	-165.88	300.7	-46.8	671.9	649.9	22.06	30.461		
6,400.0	6,386.5	6,371.0	6,369.6	13.2	11.2	-166.03	301.1	-47.1	679.1	656.7	22.41	30.308		
6,500.0	6,486.2	6,470.4	6,469.0	13.4	11.4	-166.19	301.5	-47.6	686.3	663.5	22.75	30.162		
6,600.0	6,586.0	6,570.0	6,568.6	13.6	11.6	-166.33	302.0	-48.0	693.5	670.4	23.10	30.022		
6,700.0	6,685.8	6,669.6	6,668.2	13.8	11.7	-166.47	302.5	-48.4	700.8	677.3	23.45	29.887		
6,800.0	6,785.5	6,770.2	6,768.8	14.1	11.9	-166.61	303.0	-48.7	708.0	684.2	23.80	29.753		
6,900.0	6,885.3	6,870.9	6,869.5	14.3	12.1	-166.74	303.4	-49.0	715.1	690.9	24.15	29.615		
7,000.0	6,985.1	6,971.0	6,969.6	14.5	12.3	-166.89	303.6	-49.5	722.1	697.6	24.49	29.479		
7,100.0	7,084.8	7,071.9	7,070.4	14.6	12.4	-51.60	303.5	-50.2	722.7	697.9	24.78	29.167		
7,200.0	7,182.7	7,169.7	7,168.3	14.6	12.6	-39.82	303.2	-51.0	708.2	683.5	24.69	28.684		
7,300.0	7,275.8	7,263.1	7,261.7	14.6	12.8	-39.99	302.9	-51.9	679.6	655.2	24.35	27.914		
7,400.0	7,361.2	7,348.8	7,347.4	14.5	12.9	-44.10	302.7	-52.5	638.5	614.5	24.01	26.590		
7,500.0	7,436.3	7,424.0	7,422.6	14.4	13.0	-51.35	302.6	-52.7	587.8	563.7	24.08	24.412		
7,600.0	7,498.9	7,486.9	7,485.5	14.4	13.2	-61.40	302.7	-52.7	531.1	506.3	24.80	21.417		
7,700.0	7,547.1	7,535.8	7,534.4	14.5	13.2	-72.85	302.8	-52.6	473.7	447.8	25.92	18.277		
7,800.0	7,579.3	7,568.7	7,567.3	14.9	13.3	-82.96	302.9	-52.5	422.6	395.7	26.87	15.728		
7,900.0	7,594.7	7,584.6	7,583.1	15.4	13.3	-89.17	303.0	-52.4	386.2	358.6	27.56	14.010		
8,000.0	7,596.0	7,586.2	7,584.7	16.1	13.3	-90.27	303.0	-52.4	372.4	344.1	28.30	13.161		
8,002.3	7,596.0	7,586.2	7,584.7	16.1	13.3	-90.27	303.0	-52.4	372.4	344.1	28.32	13.151 SF		
8,100.0	7,596.0	7,586.4	7,585.0	16.9	13.3	-90.31	303.0	-52.4	385.0	355.9	29.19	13.189		
8,200.0	7,596.0	7,586.7	7,585.3	17.9	13.3	-90.35	303.0	-52.4	421.7	391.5	30.22	13.952		
8,300.0	7,596.0	7,587.0	7,585.6	19.0	13.3	-90.39	303.0	-52.4	476.8	445.5	31.36	15.203		
8,400.0	7,596.0	7,587.3	7,585.8	20.1	13.3	-90.44	303.0	-52.4	544.9	512.3	32.60	16.716		
8,500.0	7,596.0	7,587.5	7,586.1	21.4	13.3	-90.48	303.0	-52.4	621.6	587.7	33.90	18.335		
8,600.0	7,596.0	7,587.8	7,586.4	22.7	13.3	-90.52	303.0	-52.4	704.3	669.0	35.27	19.965		
8,700.0	7,596.0	7,588.1	7,586.7	24.1	13.3	-90.56	303.0	-52.4	790.9	754.2	36.70	21.553		
8,800.0	7,596.0	7,588.4	7,586.9	25.5	13.3	-90.61	303.0	-52.4	880.4	842.2	38.16	23.071		
8,900.0	7,596.0	7,588.6	7,587.2	27.0	13.3	-90.65	303.0	-52.4	971.9	932.3	39.66	24.507		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3E-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4963.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4963.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3E-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - JILLSON 22-22 (EXISTING) - ENCANA WELL - NO SURVEYS												Offset Site Error: 0.0 ft	
Survey Program: 8112-Geolink MWD												Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
10,100.0	7,596.0	7,565.0	7,565.0	46.2	13.2	90.00	2,846.1	1,205.8	991.5	932.5	59.02	16.799	
10,200.0	7,596.0	7,565.0	7,565.0	47.8	13.2	90.00	2,846.1	1,205.8	950.8	890.1	60.70	15.663	
10,300.0	7,596.0	7,565.0	7,565.0	49.5	13.2	90.00	2,846.1	1,205.8	919.2	856.8	62.39	14.733	
10,400.0	7,596.0	7,565.0	7,565.0	51.2	13.2	90.00	2,846.1	1,205.8	897.7	833.6	64.08	14.008	
10,500.0	7,596.0	7,565.0	7,565.0	52.9	13.2	90.00	2,846.1	1,205.8	887.0	821.2	65.78	13.485	
10,545.4	7,596.0	7,565.0	7,565.0	53.6	13.2	90.00	2,846.1	1,205.8	885.8	819.3	66.55	13.311	CC, ES
10,600.0	7,596.0	7,565.0	7,565.0	54.6	13.2	90.00	2,846.1	1,205.8	887.5	820.0	67.47	13.153	
10,700.0	7,596.0	7,565.0	7,565.0	56.3	13.2	90.00	2,846.1	1,205.8	899.2	830.0	69.18	12.998	SF
10,800.0	7,596.0	7,565.0	7,565.0	58.0	13.2	90.00	2,846.1	1,205.8	921.6	850.8	70.88	13.003	
10,900.0	7,596.0	7,565.0	7,565.0	59.7	13.2	90.00	2,846.1	1,205.8	954.1	881.5	72.59	13.144	
11,000.0	7,596.0	7,565.0	7,565.0	61.4	13.2	90.00	2,846.1	1,205.8	995.6	921.3	74.30	13.400	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3E-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4963.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4963.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3E-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - JILLSON 2-8-22 (EXISTING) - ENCANA WELL - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 73-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		
1,200.0	1,198.5	1,439.3	1,419.8	2.3	4.2	-77.03	415.7	897.7	997.7	992.2	5.50	181.424		
1,300.0	1,298.3	1,529.1	1,506.2	2.5	4.6	-76.37	392.5	889.7	976.0	970.0	6.03	161.816		
1,400.0	1,398.1	1,618.3	1,592.3	2.7	5.1	-75.75	370.6	882.2	955.5	949.0	6.56	145.740		
1,500.0	1,497.8	1,717.1	1,688.1	2.9	5.5	-75.11	347.5	873.7	935.5	928.4	7.12	131.458		
1,600.0	1,597.6	1,826.5	1,793.9	3.1	6.0	-74.36	321.7	863.4	914.8	907.1	7.72	118.477		
1,700.0	1,697.4	1,931.0	1,894.7	3.3	6.5	-73.62	296.4	852.5	893.1	884.8	8.32	107.282		
1,800.0	1,797.1	2,027.5	1,987.7	3.5	7.0	-72.88	272.8	842.2	871.2	862.3	8.91	97.827		
1,900.0	1,896.9	2,127.9	2,084.5	3.7	7.5	-72.13	249.1	831.2	849.5	840.0	9.49	89.467		
2,000.0	1,996.7	2,232.3	2,185.1	3.9	8.0	-71.31	223.9	818.7	826.8	816.7	10.12	81.680		
2,100.0	2,096.4	2,326.1	2,275.3	4.1	8.5	-70.47	200.5	807.7	804.2	793.5	10.73	74.981		
2,200.0	2,196.2	2,422.8	2,368.3	4.3	9.0	-69.58	176.9	796.5	782.1	770.8	11.34	68.951		
2,300.0	2,296.0	2,516.9	2,459.0	4.6	9.5	-68.66	153.9	785.7	760.2	748.3	11.97	63.504		
2,400.0	2,395.7	2,622.8	2,560.9	4.8	10.0	-67.58	128.0	773.2	738.4	725.7	12.65	58.391		
2,500.0	2,495.5	2,729.6	2,663.4	5.0	10.6	-66.47	102.0	758.8	715.1	701.8	13.34	53.594		
2,600.0	2,595.3	2,827.0	2,756.8	5.2	11.1	-65.32	77.3	745.4	691.6	677.5	14.02	49.312		
2,700.0	2,695.0	2,920.9	2,846.7	5.4	11.6	-64.17	53.9	732.1	668.1	653.4	14.70	45.457		
2,800.0	2,794.8	3,008.0	2,930.3	5.6	12.0	-63.02	32.3	720.9	646.0	630.6	15.35	42.084		
2,900.0	2,894.6	3,099.4	3,018.3	5.8	12.5	-61.76	10.1	710.0	625.4	609.4	16.04	39.001		
3,000.0	2,994.3	3,199.6	3,114.7	6.0	13.0	-60.22	-14.9	698.5	605.4	588.6	16.81	36.019		
3,100.0	3,094.1	3,301.2	3,212.0	6.2	13.5	-58.47	-41.2	686.1	584.9	567.3	17.62	33.204		
3,200.0	3,193.9	3,400.0	3,306.7	6.5	14.0	-56.70	-66.3	673.3	564.3	545.9	18.41	30.658		
3,300.0	3,293.6	3,492.0	3,395.1	6.7	14.5	-55.01	-89.0	661.4	544.5	525.3	19.16	28.418		
3,400.0	3,393.4	3,590.4	3,489.8	6.9	15.0	-53.15	-112.6	648.9	525.4	505.5	19.94	26.347		
3,500.0	3,493.2	3,692.0	3,587.7	7.1	15.5	-51.22	-135.8	635.1	506.1	485.4	20.73	24.415		
3,600.0	3,593.0	3,781.9	3,674.6	7.3	15.9	-49.49	-155.5	622.8	487.3	465.9	21.44	22.733		
3,700.0	3,692.7	3,868.7	3,758.9	7.5	16.3	-47.81	-173.7	613.2	471.7	449.6	22.11	21.336		
3,800.0	3,792.5	3,967.9	3,855.8	7.7	16.7	-46.06	-192.2	602.4	456.7	433.9	22.79	20.040		
3,900.0	3,892.3	4,060.0	3,946.2	7.9	17.0	-44.70	-206.7	593.3	442.9	419.5	23.36	18.956		
4,000.0	3,992.0	4,154.8	4,039.8	8.1	17.3	-43.55	-219.2	585.3	430.6	406.7	23.90	18.016		
4,100.0	4,091.8	4,251.4	4,135.5	8.4	17.6	-42.54	-230.5	577.8	419.1	394.7	24.41	17.167		
4,200.0	4,191.6	4,349.0	4,232.3	8.6	17.8	-41.65	-240.5	571.0	408.3	383.4	24.89	16.403		
4,300.0	4,291.3	4,451.1	4,333.9	8.8	18.1	-41.03	-248.6	564.0	397.4	372.0	25.32	15.693		
4,400.0	4,391.1	4,545.5	4,427.9	9.0	18.2	-40.79	-253.7	558.0	386.7	361.0	25.67	15.062		
4,500.0	4,490.9	4,643.5	4,525.7	9.2	18.4	-40.68	-258.1	552.8	376.9	350.9	26.03	14.481		
4,600.0	4,590.6	4,741.2	4,623.3	9.4	18.5	-40.66	-261.9	547.9	367.3	341.0	26.36	13.937		
4,700.0	4,690.4	4,835.1	4,717.1	9.6	18.6	-40.91	-264.1	544.6	359.1	332.4	26.63	13.484		
4,800.0	4,790.2	4,931.8	4,813.7	9.8	18.7	-41.43	-264.9	542.6	351.9	325.1	26.87	13.100		
4,900.0	4,889.9	5,030.4	4,912.3	10.0	18.8	-42.21	-264.5	541.3	345.6	318.5	27.08	12.761		
5,000.0	4,989.7	5,130.6	5,012.5	10.3	18.9	-43.13	-263.5	540.1	339.2	311.9	27.28	12.435		
5,100.0	5,089.5	5,230.7	5,112.6	10.5	19.0	-44.14	-262.2	538.7	332.8	305.3	27.48	12.112		
5,200.0	5,189.2	5,330.6	5,212.5	10.7	19.0	-45.16	-261.0	537.2	326.4	298.7	27.67	11.794		
5,300.0	5,289.0	5,429.0	5,310.8	10.9	19.1	-46.23	-259.7	535.9	320.2	292.4	27.86	11.496		
5,400.0	5,388.8	5,528.0	5,409.8	11.1	19.2	-47.40	-258.1	535.0	314.6	286.5	28.03	11.222		
5,500.0	5,488.5	5,628.6	5,510.4	11.3	19.2	-48.64	-256.4	533.9	308.9	280.7	28.20	10.954		
5,600.0	5,588.3	5,728.8	5,610.6	11.5	19.3	-49.91	-254.8	532.5	303.1	274.7	28.37	10.685		
5,700.0	5,688.1	5,828.8	5,710.5	11.7	19.4	-51.20	-253.4	531.0	297.3	268.8	28.53	10.421		
5,800.0	5,787.8	5,929.2	5,810.9	11.9	19.5	-52.50	-252.2	529.3	291.5	262.8	28.70	10.156		
5,900.0	5,887.6	6,029.6	5,911.3	12.2	19.6	-53.75	-251.5	527.4	285.5	256.6	28.88	9.887		
6,000.0	5,987.4	6,128.6	6,010.3	12.4	19.7	-55.01	-251.0	525.5	279.7	250.6	29.05	9.628		
6,100.0	6,087.2	6,227.6	6,109.3	12.6	19.8	-56.37	-250.2	523.7	274.2	245.0	29.20	9.390		
6,200.0	6,186.9	6,326.7	6,208.3	12.8	19.9	-57.83	-249.1	522.2	269.1	239.7	29.34	9.171		
6,300.0	6,286.7	6,425.7	6,307.3	13.0	20.0	-59.38	-247.9	520.8	264.4	234.9	29.48	8.970		

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 Jillson-East Rinn 3E-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4963.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4963.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3E-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - JILLSON 2-8-22 (EXISTING) - ENCANA WELL - SURVEYS													Offset Site Error: 0.0 ft	
Survey Program: 73-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		Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
							+N/-S (ft)	+E/-W (ft)						
6,400.0	6,386.5	6,524.8	6,406.4	13.2	20.1	-60.90	-247.0	519.8	260.1	230.5	29.62	8.783		
6,500.0	6,486.2	6,624.2	6,505.8	13.4	20.2	-62.41	-246.3	518.9	256.2	226.5	29.76	8.611		
6,600.0	6,586.0	6,723.6	6,605.2	13.6	20.3	-64.00	-245.4	518.2	252.6	222.7	29.88	8.452		
6,700.0	6,685.8	6,823.1	6,704.7	13.8	20.4	-65.65	-244.5	517.4	249.3	219.3	30.01	8.306		
6,800.0	6,785.5	6,922.6	6,804.2	14.1	20.4	-67.32	-243.6	516.8	246.2	216.1	30.13	8.171		
6,900.0	6,885.3	7,022.5	6,904.1	14.3	20.6	-68.99	-243.0	516.3	243.4	213.1	30.26	8.042		
7,000.0	6,985.1	7,122.2	7,003.8	14.5	20.7	-70.65	-242.5	515.7	240.7	210.3	30.40	7.918		
7,100.0	7,084.8	7,221.6	7,103.2	14.6	20.8	45.45	-242.0	515.3	235.5	204.9	30.59	7.700		
7,200.0	7,182.7	7,319.2	7,200.8	14.6	20.8	64.04	-241.4	514.9	224.6	193.5	31.19	7.203		
7,300.0	7,275.8	7,412.0	7,293.6	14.6	20.9	76.89	-240.8	514.8	212.0	179.8	32.22	6.582		
7,393.4	7,355.8	7,492.2	7,373.7	14.5	21.0	89.98	-240.2	514.8	206.1	172.9	33.11	6.224 CC		
7,400.0	7,361.2	7,497.5	7,379.1	14.5	21.0	90.91	-240.2	514.8	206.1	172.9	33.15	6.217 ES, SF		
7,500.0	7,436.3	7,573.0	7,454.6	14.4	21.1	103.88	-239.6	514.9	218.1	184.8	33.24	6.560		
7,600.0	7,498.9	7,636.0	7,517.6	14.4	21.2	112.78	-239.0	515.1	255.2	222.6	32.55	7.838		
7,700.0	7,547.1	7,684.6	7,566.2	14.5	21.2	116.05	-238.7	515.2	315.6	283.7	31.92	9.886		
7,800.0	7,579.3	7,717.3	7,598.9	14.9	21.2	112.42	-238.4	515.4	392.9	360.7	32.26	12.179		
7,900.0	7,594.7	7,733.3	7,614.9	15.4	21.3	99.14	-238.3	515.5	480.6	446.8	33.78	14.228		
8,000.0	7,596.0	7,735.3	7,616.9	16.1	21.3	90.84	-238.3	515.5	573.4	538.6	34.74	16.505		
8,100.0	7,596.0	7,736.0	7,617.6	16.9	21.3	91.04	-238.3	515.5	668.2	632.6	35.63	18.754		
8,200.0	7,596.0	7,736.7	7,618.3	17.9	21.3	91.25	-238.3	515.5	764.4	727.8	36.66	20.853		
8,300.0	7,596.0	7,737.4	7,619.0	19.0	21.3	91.45	-238.3	515.5	861.5	823.7	37.80	22.792		
8,400.0	7,596.0	7,738.1	7,619.7	20.1	21.3	91.66	-238.3	515.5	959.1	920.1	39.03	24.576		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3E-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4963.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4963.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3E-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - JILLSON 3 (EXISTING) - FOUNDATION WELL - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 5039-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	-13.43	267.0	-63.8	275.1					
100.0	100.0	83.0	83.0	0.2	0.1	-13.43	267.0	-63.8	274.5	274.2	0.30	924.629		
200.0	200.0	183.0	183.0	0.3	0.3	-13.43	267.0	-63.8	274.5	273.9	0.65	424.984		
300.0	300.0	283.0	283.0	0.5	0.5	-13.43	267.0	-63.8	274.5	273.5	1.00	275.897 CC, ES		
400.0	400.0	383.0	383.0	0.7	0.7	-152.17	267.0	-63.8	275.3	274.0	1.34	204.814		
500.0	500.0	483.0	483.0	0.9	0.8	-152.41	267.0	-63.8	277.6	275.9	1.69	163.912		
600.0	599.9	582.9	582.9	1.0	1.0	-152.80	267.0	-63.8	281.5	279.4	2.04	137.700		
700.0	699.7	682.7	682.7	1.2	1.2	-153.34	267.0	-63.8	286.9	284.5	2.40	119.746		
800.0	799.4	782.4	782.4	1.4	1.4	-153.94	267.0	-63.8	293.0	290.3	2.75	106.576		
900.0	899.2	882.2	882.2	1.6	1.5	-154.51	267.0	-63.8	299.2	296.1	3.10	96.411		
1,000.0	999.0	982.0	982.0	1.8	1.7	-155.06	267.0	-63.8	305.3	301.9	3.46	88.334		
1,100.0	1,098.7	1,081.7	1,081.7	2.1	1.9	-155.59	267.0	-63.8	311.5	307.7	3.81	81.766		
1,200.0	1,198.5	1,181.5	1,181.5	2.3	2.1	-156.09	267.0	-63.8	317.7	313.6	4.16	76.323		
1,300.0	1,298.3	1,281.3	1,281.3	2.5	2.2	-156.58	267.0	-63.8	324.0	319.4	4.52	71.740		
1,400.0	1,398.1	1,381.1	1,381.1	2.7	2.4	-157.05	267.0	-63.8	330.2	325.3	4.87	67.829		
1,500.0	1,497.8	1,480.8	1,480.8	2.9	2.6	-157.50	267.0	-63.8	336.5	331.3	5.22	64.454		
1,600.0	1,597.6	1,580.6	1,580.6	3.1	2.8	-157.94	267.0	-63.8	342.8	337.2	5.57	61.512		
1,700.0	1,697.4	1,680.4	1,680.4	3.3	2.9	-158.36	267.0	-63.8	349.1	343.2	5.92	58.925		
1,800.0	1,797.1	1,780.1	1,780.1	3.5	3.1	-158.76	267.0	-63.8	355.5	349.2	6.28	56.634		
1,900.0	1,896.9	1,879.9	1,879.9	3.7	3.3	-159.15	267.0	-63.8	361.8	355.2	6.63	54.590		
2,000.0	1,996.7	1,979.7	1,979.7	3.9	3.5	-159.53	267.0	-63.8	368.2	361.2	6.98	52.755		
2,100.0	2,096.4	2,079.4	2,079.4	4.1	3.6	-159.89	267.0	-63.8	374.6	367.2	7.33	51.100		
2,200.0	2,196.2	2,179.2	2,179.2	4.3	3.8	-160.24	267.0	-63.8	381.0	373.3	7.68	49.599		
2,300.0	2,296.0	2,279.0	2,279.0	4.6	4.0	-160.58	267.0	-63.8	387.4	379.3	8.03	48.233		
2,400.0	2,395.7	2,378.7	2,378.7	4.8	4.2	-160.91	267.0	-63.8	393.8	385.4	8.38	46.983		
2,500.0	2,495.5	2,478.5	2,478.5	5.0	4.3	-161.23	267.0	-63.8	400.2	391.5	8.73	45.835		
2,600.0	2,595.3	2,578.3	2,578.3	5.2	4.5	-161.54	267.0	-63.8	406.7	397.6	9.08	44.778		
2,700.0	2,695.0	2,678.0	2,678.0	5.4	4.7	-161.84	267.0	-63.8	413.2	403.7	9.43	43.802		
2,800.0	2,794.8	2,777.8	2,777.8	5.6	4.8	-162.13	267.0	-63.8	419.6	409.9	9.78	42.897		
2,900.0	2,894.6	2,877.6	2,877.6	5.8	5.0	-162.41	267.0	-63.8	426.1	416.0	10.13	42.056		
3,000.0	2,994.3	2,977.3	2,977.3	6.0	5.2	-162.68	267.0	-63.8	432.6	422.1	10.48	41.272		
3,100.0	3,094.1	3,077.1	3,077.1	6.2	5.4	-162.95	267.0	-63.8	439.1	428.3	10.83	40.540		
3,200.0	3,193.9	3,176.9	3,176.9	6.5	5.5	-163.20	267.0	-63.8	445.6	434.5	11.18	39.856		
3,300.0	3,293.6	3,276.6	3,276.6	6.7	5.7	-163.45	267.0	-63.8	452.2	440.6	11.53	39.214		
3,400.0	3,393.4	3,376.4	3,376.4	6.9	5.9	-163.69	267.0	-63.8	458.7	446.8	11.88	38.610		
3,500.0	3,493.2	3,476.2	3,476.2	7.1	6.1	-163.93	267.0	-63.8	465.2	453.0	12.23	38.042		
3,600.0	3,593.0	3,576.0	3,576.0	7.3	6.2	-164.16	267.0	-63.8	471.8	459.2	12.58	37.506		
3,700.0	3,692.7	3,675.7	3,675.7	7.5	6.4	-164.38	267.0	-63.8	478.3	465.4	12.93	37.000		
3,800.0	3,792.5	3,775.5	3,775.5	7.7	6.6	-164.60	267.0	-63.8	484.9	471.6	13.28	36.522		
3,900.0	3,892.3	3,875.3	3,875.3	7.9	6.8	-164.81	267.0	-63.8	491.4	477.8	13.63	36.068		
4,000.0	3,992.0	3,975.0	3,975.0	8.1	6.9	-165.01	267.0	-63.8	498.0	484.0	13.97	35.638		
4,100.0	4,091.8	4,074.8	4,074.8	8.4	7.1	-165.21	267.0	-63.8	504.6	490.3	14.32	35.229		
4,200.0	4,191.6	4,174.6	4,174.6	8.6	7.3	-165.41	267.0	-63.8	511.2	496.5	14.67	34.840		
4,300.0	4,291.3	4,274.3	4,274.3	8.8	7.5	-165.60	267.0	-63.8	517.8	502.8	15.02	34.470		
4,400.0	4,391.1	4,374.1	4,374.1	9.0	7.6	-165.78	267.0	-63.8	524.4	509.0	15.37	34.117		
4,500.0	4,490.9	4,473.9	4,473.9	9.2	7.8	-165.96	267.0	-63.8	531.0	515.3	15.72	33.780		
4,600.0	4,590.6	4,573.6	4,573.6	9.4	8.0	-166.14	267.0	-63.8	537.6	521.5	16.07	33.458		
4,700.0	4,690.4	4,673.4	4,673.4	9.6	8.2	-166.31	267.0	-63.8	544.2	527.8	16.42	33.151		
4,800.0	4,790.2	4,773.2	4,773.2	9.8	8.3	-166.48	267.0	-63.8	550.8	534.0	16.76	32.856		
4,900.0	4,889.9	4,872.9	4,872.9	10.0	8.5	-166.64	267.0	-63.8	557.4	540.3	17.11	32.574		
5,000.0	4,989.7	4,972.7	4,972.7	10.3	8.7	-166.80	267.0	-63.8	564.1	546.6	17.46	32.303		
5,100.0	5,089.5	5,039.0	5,039.0	10.5	8.8	-166.91	267.0	-63.8	571.7	553.9	17.75	32.202 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 Jillson-East Rinn 3E-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4963.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4963.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3E-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

S22-T2N-R68W (Jillson-East Rinn) - JILLSON 3 (EXISTING) - FOUNDATION WELL - NO SURVEYS												Offset Site Error:	0.0 ft
Survey Program: 5039-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)			
5,200.0	5,189.2	5,039.0	5,039.0	10.7	8.8	-166.91	267.0	-63.8	592.5	574.6	17.93	33.047	
5,300.0	5,289.0	5,039.0	5,039.0	10.9	8.8	-166.91	267.0	-63.8	628.7	610.6	18.11	34.725	
5,400.0	5,388.8	5,039.0	5,039.0	11.1	8.8	-166.91	267.0	-63.8	677.9	659.6	18.28	37.079	
5,500.0	5,488.5	5,039.0	5,039.0	11.3	8.8	-166.91	267.0	-63.8	737.4	719.0	18.46	39.949	
5,600.0	5,588.3	5,039.0	5,039.0	11.5	8.8	-166.91	267.0	-63.8	805.0	786.4	18.64	43.197	
5,700.0	5,688.1	5,039.0	5,039.0	11.7	8.8	-166.91	267.0	-63.8	878.8	860.0	18.81	46.714	
5,800.0	5,787.8	5,039.0	5,039.0	11.9	8.8	-166.91	267.0	-63.8	957.4	938.4	18.99	50.416	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3E-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4963.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4963.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3E-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - JILLSON GAS UNIT 1 (EXISTING) - ENCANA WELL - NO SURVE													Offset Site Error:	0.0 ft
Survey Program: 8140-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		
7,500.0	7,436.3	7,435.3	7,435.3	14.4	13.0	46.03	623.3	926.0	992.9	968.3	24.61	40.349		
7,600.0	7,498.9	7,497.9	7,497.9	14.4	13.1	55.71	623.3	926.0	931.2	906.4	24.72	37.661		
7,700.0	7,547.1	7,546.1	7,546.1	14.5	13.2	66.94	623.3	926.0	865.5	839.9	25.56	33.855		
7,800.0	7,579.3	7,578.3	7,578.3	14.9	13.2	78.12	623.3	926.0	799.9	773.2	26.67	29.992		
7,900.0	7,594.7	7,593.7	7,593.7	15.4	13.3	87.30	623.3	926.0	738.8	711.2	27.55	26.813		
8,000.0	7,596.0	7,595.0	7,595.0	16.1	13.3	90.00	623.3	926.0	686.5	658.2	28.29	24.263		
8,100.0	7,596.0	7,595.0	7,595.0	16.9	13.3	90.00	623.3	926.0	645.6	616.4	29.19	22.118		
8,200.0	7,596.0	7,595.0	7,595.0	17.9	13.3	90.00	623.3	926.0	618.2	588.0	30.22	20.461		
8,300.0	7,596.0	7,595.0	7,595.0	19.0	13.3	90.00	623.3	926.0	606.4	575.0	31.36	19.339		
8,322.6	7,596.0	7,595.0	7,595.0	19.2	13.3	90.00	623.3	926.0	606.0	574.3	31.63	19.156 CC, ES		
8,400.0	7,596.0	7,595.0	7,595.0	20.1	13.3	90.00	623.3	926.0	610.9	578.3	32.59	18.746		
8,500.0	7,596.0	7,595.0	7,595.0	21.4	13.3	90.00	623.3	926.0	631.4	597.5	33.90	18.628 SF		
8,600.0	7,596.0	7,595.0	7,595.0	22.7	13.3	90.00	623.3	926.0	666.4	631.2	35.27	18.898		
8,700.0	7,596.0	7,595.0	7,595.0	24.1	13.3	90.00	623.3	926.0	713.9	677.2	36.69	19.459		
8,800.0	7,596.0	7,595.0	7,595.0	25.5	13.3	90.00	623.3	926.0	771.4	733.3	38.15	20.220		
8,900.0	7,596.0	7,595.0	7,595.0	27.0	13.3	90.00	623.3	926.0	837.0	797.4	39.65	21.110		
9,000.0	7,596.0	7,595.0	7,595.0	28.5	13.3	90.00	623.3	926.0	908.9	867.7	41.18	22.071		
9,100.0	7,596.0	7,595.0	7,595.0	30.0	13.3	90.00	623.3	926.0	985.7	942.9	42.73	23.066		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3E-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4963.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4963.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3E-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - Jillson-East Rinn 3A-22H-M268 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: O-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	3.0	3.0	0.0	0.0	-89.49	0.4	-40.0	40.0					
100.0	100.0	103.0	103.0	0.2	0.2	-89.49	0.4	-40.0	40.0	39.7	0.31	129.464		
165.6	165.6	168.6	168.6	0.3	0.3	-89.49	0.4	-40.0	40.0	39.5	0.54	74.334 CC		
200.0	200.0	203.0	203.0	0.3	0.3	-89.49	0.4	-40.0	40.0	39.3	0.66	60.785 ES		
300.0	300.0	302.5	302.5	0.5	0.5	-90.39	-0.3	-40.7	40.7	39.7	1.01	40.371		
400.0	400.0	401.9	401.9	0.7	0.7	129.40	-2.1	-42.6	43.2	41.8	1.36	31.811		
500.0	500.0	501.2	501.0	0.9	0.9	128.29	-5.1	-45.7	48.1	46.4	1.71	28.091		
600.0	599.9	600.2	599.9	1.0	1.1	127.66	-9.3	-50.1	55.5	53.4	2.08	26.702		
700.0	699.7	699.4	698.8	1.2	1.3	127.55	-14.5	-55.5	65.0	62.5	2.45	26.507		
800.0	799.4	798.9	798.0	1.4	1.5	127.86	-19.8	-61.1	75.1	72.2	2.83	26.507		
900.0	899.2	898.4	897.2	1.6	1.7	128.11	-25.1	-66.7	85.1	81.9	3.21	26.484		
1,000.0	999.0	997.9	996.4	1.8	1.9	128.30	-30.4	-72.2	95.2	91.6	3.60	26.451		
1,100.0	1,098.7	1,097.4	1,095.6	2.1	2.1	128.45	-35.8	-77.8	105.3	101.3	3.99	26.415		
1,200.0	1,198.5	1,196.9	1,194.8	2.3	2.3	128.58	-41.1	-83.4	115.4	111.0	4.37	26.380		
1,300.0	1,298.3	1,296.4	1,294.0	2.5	2.6	128.69	-46.4	-88.9	125.5	120.7	4.76	26.346		
1,400.0	1,398.1	1,395.9	1,393.2	2.7	2.8	128.78	-51.7	-94.5	135.5	130.4	5.15	26.314		
1,500.0	1,497.8	1,495.4	1,492.4	2.9	3.0	128.86	-57.0	-100.1	145.6	140.1	5.54	26.285		
1,600.0	1,597.6	1,594.8	1,591.6	3.1	3.2	128.92	-62.4	-105.7	155.7	149.8	5.93	26.258		
1,700.0	1,697.4	1,694.3	1,690.7	3.3	3.4	128.98	-67.7	-111.2	165.8	159.5	6.32	26.232		
1,800.0	1,797.1	1,793.8	1,789.9	3.5	3.7	129.04	-73.0	-116.8	175.9	169.2	6.71	26.209		
1,900.0	1,896.9	1,893.3	1,889.1	3.7	3.9	129.08	-78.3	-122.4	186.0	178.9	7.10	26.188		
2,000.0	1,996.7	1,992.8	1,988.3	3.9	4.1	129.13	-83.7	-127.9	196.0	188.5	7.49	26.168		
2,100.0	2,096.4	2,092.3	2,087.5	4.1	4.3	129.16	-89.0	-133.5	206.1	198.2	7.88	26.150		
2,200.0	2,196.2	2,191.8	2,186.7	4.3	4.5	129.20	-94.3	-139.1	216.2	207.9	8.27	26.133		
2,300.0	2,296.0	2,291.3	2,285.9	4.6	4.7	129.23	-99.6	-144.6	226.3	217.6	8.66	26.117		
2,400.0	2,395.7	2,390.8	2,385.1	4.8	5.0	129.26	-104.9	-150.2	236.4	227.3	9.06	26.102		
2,500.0	2,495.5	2,490.3	2,484.3	5.0	5.2	129.29	-110.3	-155.8	246.5	237.0	9.45	26.088		
2,600.0	2,595.3	2,589.8	2,583.5	5.2	5.4	129.31	-115.6	-161.3	256.5	246.7	9.84	26.075		
2,700.0	2,695.0	2,689.2	2,682.7	5.4	5.6	129.33	-120.9	-166.9	266.6	256.4	10.23	26.063		
2,800.0	2,794.8	2,788.7	2,781.9	5.6	5.8	129.35	-126.2	-172.5	276.7	266.1	10.62	26.052		
2,900.0	2,894.6	2,888.2	2,881.0	5.8	6.1	129.37	-131.5	-178.1	286.8	275.8	11.01	26.041		
3,000.0	2,994.3	2,987.7	2,980.2	6.0	6.3	129.39	-136.9	-183.6	296.9	285.5	11.40	26.031		
3,100.0	3,094.1	3,087.2	3,079.4	6.2	6.5	129.41	-142.2	-189.2	307.0	295.2	11.80	26.022		
3,200.0	3,193.9	3,186.7	3,178.6	6.5	6.7	129.43	-147.5	-194.8	317.0	304.8	12.19	26.013		
3,300.0	3,293.6	3,286.2	3,277.8	6.7	6.9	129.44	-152.8	-200.3	327.1	314.5	12.58	26.005		
3,400.0	3,393.4	3,385.7	3,377.0	6.9	7.2	129.45	-158.1	-205.9	337.2	324.2	12.97	25.997		
3,500.0	3,493.2	3,485.2	3,476.2	7.1	7.4	129.47	-163.5	-211.5	347.3	333.9	13.36	25.989		
3,600.0	3,593.0	3,584.7	3,575.4	7.3	7.6	129.48	-168.8	-217.0	357.4	343.6	13.75	25.982		
3,700.0	3,692.7	3,684.1	3,674.6	7.5	7.8	129.49	-174.1	-222.6	367.5	353.3	14.15	25.975		
3,800.0	3,792.5	3,783.6	3,773.8	7.7	8.0	129.50	-179.4	-228.2	377.5	363.0	14.54	25.969		
3,900.0	3,892.3	3,883.1	3,873.0	7.9	8.3	129.51	-184.7	-233.7	387.6	372.7	14.93	25.962		
4,000.0	3,992.0	3,982.6	3,972.2	8.1	8.5	129.52	-190.1	-239.3	397.7	382.4	15.32	25.957		
4,100.0	4,091.8	4,082.1	4,071.3	8.4	8.7	129.53	-195.4	-244.9	407.8	392.1	15.71	25.951		
4,200.0	4,191.6	4,181.6	4,170.5	8.6	8.9	129.54	-200.7	-250.4	417.9	401.8	16.11	25.945		
4,300.0	4,291.3	4,281.1	4,269.7	8.8	9.1	129.55	-206.0	-256.0	428.0	411.5	16.50	25.940		
4,400.0	4,391.1	4,380.6	4,368.9	9.0	9.4	129.56	-211.3	-261.6	438.0	421.2	16.89	25.935		
4,500.0	4,490.9	4,480.1	4,468.1	9.2	9.6	129.57	-216.7	-267.2	448.1	430.8	17.28	25.931		
4,600.0	4,590.6	4,579.6	4,567.3	9.4	9.8	129.57	-222.0	-272.7	458.2	440.5	17.67	25.926		
4,700.0	4,690.4	4,679.0	4,666.5	9.6	10.0	129.58	-227.3	-278.3	468.3	450.2	18.07	25.922		
4,800.0	4,790.2	4,778.5	4,765.7	9.8	10.2	129.59	-232.6	-283.9	478.4	459.9	18.46	25.918		
4,900.0	4,889.9	4,878.0	4,864.9	10.0	10.5	129.60	-237.9	-289.4	488.5	469.6	18.85	25.914		
5,000.0	4,989.7	4,977.5	4,964.1	10.3	10.7	129.60	-243.3	-295.0	498.5	479.3	19.24	25.910		

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 Jillson-East Rinn 3E-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4963.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4963.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3E-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - Jillson-East Rinn 3A-22H-M268 - Hz - Plan #2													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)				
5,100.0	5,089.5	5,077.0	5,063.3	10.5	10.9	129.61	-248.6	-300.6	508.6	489.0	19.63	25.906		
5,200.0	5,189.2	5,176.5	5,162.5	10.7	11.1	129.61	-253.9	-306.1	518.7	498.7	20.03	25.902		
5,300.0	5,289.0	5,276.0	5,261.6	10.9	11.3	129.62	-259.2	-311.7	528.8	508.4	20.42	25.899		
5,400.0	5,388.8	5,375.5	5,360.8	11.1	11.5	129.62	-264.5	-317.3	538.9	518.1	20.81	25.895		
5,500.0	5,488.5	5,475.0	5,460.0	11.3	11.8	129.63	-269.9	-322.8	549.0	527.8	21.20	25.892		
5,600.0	5,588.3	5,574.5	5,559.2	11.5	12.0	129.63	-275.2	-328.4	559.0	537.5	21.59	25.889		
5,700.0	5,688.1	5,673.9	5,658.4	11.7	12.2	129.64	-280.5	-334.0	569.1	547.1	21.99	25.886		
5,800.0	5,787.8	5,773.4	5,757.6	11.9	12.4	129.64	-285.8	-339.6	579.2	556.8	22.38	25.883		
5,900.0	5,887.6	5,872.9	5,856.8	12.2	12.6	129.65	-291.1	-345.1	589.3	566.5	22.77	25.880		
6,000.0	5,987.4	5,972.4	5,956.0	12.4	12.9	129.65	-296.5	-350.7	599.4	576.2	23.16	25.878		
6,100.0	6,087.2	6,071.9	6,055.2	12.6	13.1	129.66	-301.8	-356.3	609.5	585.9	23.55	25.875		
6,200.0	6,186.9	6,171.4	6,154.4	12.8	13.3	129.66	-307.1	-361.8	619.5	595.6	23.95	25.872		
6,300.0	6,286.7	6,270.9	6,253.6	13.0	13.5	129.67	-312.4	-367.4	629.6	605.3	24.34	25.870		
6,400.0	6,386.5	6,370.4	6,352.8	13.2	13.7	129.67	-317.7	-373.0	639.7	615.0	24.73	25.867		
6,500.0	6,486.2	6,469.9	6,451.9	13.4	14.0	129.67	-323.1	-378.5	649.8	624.7	25.12	25.865		
6,600.0	6,586.0	6,569.4	6,551.1	13.6	14.2	129.68	-328.4	-384.1	659.9	634.4	25.51	25.863		
6,700.0	6,685.8	6,668.9	6,650.3	13.8	14.4	129.68	-333.7	-389.7	670.0	644.1	25.91	25.861		
6,800.0	6,785.5	6,768.3	6,749.5	14.1	14.6	129.68	-339.0	-395.2	680.1	653.8	26.30	25.858		
6,900.0	6,885.3	6,867.9	6,848.7	14.3	14.8	129.69	-344.3	-400.8	690.1	663.4	26.69	25.857		
7,000.0	6,985.1	6,967.8	6,948.3	14.5	15.0	130.43	-340.6	-406.5	700.2	673.2	26.99	25.942		
7,100.0	7,084.8	7,063.9	7,042.1	14.6	15.0	-111.41	-320.8	-412.1	710.6	683.5	27.11	26.215		
7,200.0	7,182.7	7,157.2	7,128.7	14.6	14.9	-95.36	-286.8	-417.4	721.5	694.4	27.02	26.703		
7,300.0	7,275.8	7,250.0	7,208.2	14.6	14.9	-89.74	-239.5	-422.5	732.4	705.6	26.79	27.333		
7,400.0	7,361.2	7,337.3	7,275.1	14.5	14.8	-86.28	-183.8	-427.0	742.8	716.3	26.53	28.000		
7,500.0	7,436.3	7,424.8	7,333.0	14.4	14.8	-83.74	-118.3	-431.1	752.5	726.2	26.32	28.592		
7,600.0	7,498.9	7,511.1	7,379.7	14.4	14.8	-81.82	-45.9	-434.6	760.9	734.6	26.26	28.974		
7,700.0	7,547.1	7,600.0	7,415.8	14.5	15.0	-80.40	35.2	-437.7	767.8	741.3	26.50	28.973		
7,800.0	7,579.3	7,681.3	7,437.5	14.9	15.3	-79.46	113.4	-439.9	772.9	745.8	27.08	28.543		
7,900.0	7,594.7	7,765.7	7,448.2	15.4	15.7	-78.94	197.1	-441.5	776.0	747.9	28.04	27.675		
8,000.0	7,596.0	7,860.1	7,449.0	16.1	16.4	-78.87	291.4	-442.7	777.3	747.9	29.45	26.396		
8,100.0	7,596.0	7,960.1	7,449.0	16.9	17.2	-78.89	391.4	-443.9	778.5	747.3	31.20	24.956		
8,200.0	7,596.0	8,060.1	7,449.0	17.9	18.1	-78.91	491.4	-445.1	779.7	746.5	33.21	23.479		
8,300.0	7,596.0	8,160.1	7,449.0	19.0	19.2	-78.93	591.3	-446.3	780.9	745.5	35.44	22.033		
8,400.0	7,596.0	8,260.0	7,449.0	20.1	20.3	-78.94	691.3	-447.6	782.1	744.3	37.86	20.658		
8,500.0	7,596.0	8,360.0	7,449.0	21.4	21.6	-78.96	791.3	-448.8	783.3	742.9	40.43	19.376		
8,600.0	7,596.0	8,460.0	7,449.0	22.7	22.9	-78.98	891.3	-450.0	784.5	741.4	43.12	18.195		
8,700.0	7,596.0	8,560.0	7,449.0	24.1	24.2	-78.99	991.3	-451.2	785.7	739.8	45.91	17.115		
8,800.0	7,596.0	8,660.0	7,449.0	25.5	25.7	-79.01	1,091.3	-452.5	786.9	738.2	48.79	16.131		
8,900.0	7,596.0	8,760.0	7,449.0	27.0	27.1	-79.03	1,191.2	-453.7	788.1	736.4	51.73	15.235		
9,000.0	7,596.0	8,860.0	7,449.0	28.5	28.6	-79.04	1,291.2	-454.9	789.3	734.6	54.74	14.421		
9,100.0	7,596.0	8,960.0	7,449.0	30.0	30.1	-79.06	1,391.2	-456.1	790.5	732.7	57.79	13.679		
9,200.0	7,596.0	9,060.0	7,449.0	31.6	31.6	-79.08	1,491.2	-457.3	791.7	730.8	60.89	13.003		
9,300.0	7,596.0	9,160.0	7,449.0	33.1	33.2	-79.09	1,591.2	-458.6	792.9	728.9	64.02	12.386		
9,400.0	7,596.0	9,260.0	7,449.0	34.7	34.8	-79.11	1,691.2	-459.8	794.1	726.9	67.18	11.820		
9,500.0	7,596.0	9,360.0	7,449.0	36.3	36.4	-79.13	1,791.2	-461.0	795.3	725.0	70.38	11.301		
9,600.0	7,596.0	9,460.0	7,449.0	37.9	38.0	-79.14	1,891.1	-462.2	796.5	722.9	73.59	10.824		
9,700.0	7,596.0	9,559.9	7,449.0	39.6	39.6	-79.16	1,991.1	-463.4	797.7	720.9	76.83	10.384		
9,800.0	7,596.0	9,659.9	7,449.0	41.2	41.2	-79.18	2,091.1	-464.7	798.9	718.9	80.08	9.977		
9,900.0	7,596.0	9,759.9	7,449.0	42.8	42.9	-79.19	2,191.1	-465.9	800.1	716.8	83.35	9.600		
10,000.0	7,596.0	9,859.9	7,449.0	44.5	44.5	-79.21	2,291.1	-467.1	801.3	714.7	86.63	9.250		
10,100.0	7,596.0	9,959.9	7,449.0	46.2	46.2	-79.23	2,391.1	-468.3	802.5	712.6	89.93	8.924		
10,200.0	7,596.0	10,059.9	7,449.0	47.8	47.8	-79.24	2,491.1	-469.6	803.7	710.5	93.24	8.620		

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 Jillson-East Rinn 3E-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4963.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4963.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3E-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - Jillson-East Rinn 3A-22H-M268 - Hz - Plan #2												Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				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)			
10,300.0	7,596.0	10,159.9	7,449.0	49.5	49.5	-79.26	2,591.0	-470.8	804.9	708.4	96.56	8.336	
10,400.0	7,596.0	10,259.9	7,449.0	51.2	51.2	-79.28	2,691.0	-472.0	806.1	706.2	99.89	8.070	
10,500.0	7,596.0	10,359.9	7,449.0	52.9	52.9	-79.29	2,791.0	-473.2	807.3	704.1	103.22	7.821	
10,600.0	7,596.0	10,459.9	7,449.0	54.6	54.6	-79.31	2,891.0	-474.4	808.5	702.0	106.57	7.587	
10,700.0	7,596.0	10,559.9	7,449.0	56.3	56.3	-79.32	2,991.0	-475.7	809.7	699.8	109.92	7.367	
10,800.0	7,596.0	10,659.9	7,449.0	58.0	57.9	-79.34	3,091.0	-476.9	810.9	697.7	113.28	7.159	
10,900.0	7,596.0	10,759.9	7,449.0	59.7	59.6	-79.36	3,190.9	-478.1	812.1	695.5	116.64	6.963	
11,000.0	7,596.0	10,859.9	7,449.0	61.4	61.3	-79.37	3,290.9	-479.3	813.3	693.3	120.01	6.777	
11,100.0	7,596.0	10,959.8	7,449.0	63.1	63.0	-79.39	3,390.9	-480.5	814.5	691.2	123.38	6.602	
11,200.0	7,596.0	11,059.8	7,449.0	64.8	64.8	-79.40	3,490.9	-481.8	815.7	689.0	126.76	6.435	
11,300.0	7,596.0	11,159.8	7,449.0	66.5	66.5	-79.42	3,590.9	-483.0	816.9	686.8	130.15	6.277	
11,400.0	7,596.0	11,259.8	7,449.0	68.2	68.2	-79.43	3,690.9	-484.2	818.1	684.6	133.53	6.127	
11,500.0	7,596.0	11,359.8	7,449.0	69.9	69.9	-79.45	3,790.9	-485.4	819.3	682.4	136.93	5.984	
11,600.0	7,596.0	11,459.8	7,449.0	71.6	71.6	-79.47	3,890.8	-486.7	820.5	680.2	140.32	5.848	
11,700.0	7,596.0	11,559.8	7,449.0	73.3	73.3	-79.48	3,990.8	-487.9	821.7	678.0	143.72	5.718	
11,800.0	7,596.0	11,659.8	7,449.0	75.1	75.0	-79.50	4,090.8	-489.1	822.9	675.8	147.12	5.594	
11,900.0	7,596.0	11,759.8	7,449.0	76.8	76.8	-79.51	4,190.8	-490.3	824.1	673.6	150.52	5.475	
12,000.0	7,596.0	11,859.8	7,449.0	78.5	78.5	-79.53	4,290.8	-491.5	825.3	671.4	153.93	5.362	
12,100.0	7,596.0	11,959.8	7,449.0	80.2	80.2	-79.54	4,390.8	-492.8	826.5	669.2	157.34	5.253	
12,200.0	7,596.0	12,059.8	7,449.0	82.0	81.9	-79.56	4,490.8	-494.0	827.7	667.0	160.75	5.149	
12,300.0	7,596.0	12,159.8	7,449.0	83.7	83.7	-79.57	4,590.7	-495.2	828.9	664.8	164.16	5.050	
12,400.0	7,596.0	12,259.7	7,449.0	85.4	85.4	-79.59	4,690.7	-496.4	830.1	662.6	167.58	4.954	
12,500.0	7,596.0	12,359.7	7,449.0	87.1	87.1	-79.60	4,790.7	-497.6	831.4	660.4	170.99	4.862	
12,600.0	7,596.0	12,459.7	7,449.0	88.9	88.8	-79.62	4,890.7	-498.9	832.6	658.1	174.41	4.773	
12,700.0	7,596.0	12,559.7	7,449.0	90.6	90.6	-79.63	4,990.7	-500.1	833.8	655.9	177.83	4.688	
12,800.0	7,596.0	12,659.7	7,449.0	92.3	92.3	-79.65	5,090.7	-501.3	835.0	653.7	181.26	4.606	
12,900.0	7,596.0	12,759.7	7,449.0	94.1	94.0	-79.66	5,190.7	-502.5	836.2	651.5	184.68	4.528	
13,000.0	7,596.0	12,859.7	7,449.0	95.8	95.8	-79.68	5,290.6	-503.8	837.4	649.2	188.11	4.451	
13,100.0	7,596.0	12,959.7	7,449.0	97.5	97.5	-79.69	5,390.6	-505.0	838.6	647.0	191.54	4.378	
13,200.0	7,596.0	13,059.7	7,449.0	99.3	99.2	-79.71	5,490.6	-506.2	839.8	644.8	194.97	4.307	
13,300.0	7,596.0	13,159.7	7,449.0	101.0	101.0	-79.72	5,590.6	-507.4	841.0	642.6	198.40	4.239	
13,400.0	7,596.0	13,259.7	7,449.0	102.7	102.7	-79.74	5,690.6	-508.6	842.2	640.3	201.83	4.173	
13,500.0	7,596.0	13,359.7	7,449.0	104.5	104.4	-79.75	5,790.6	-509.9	843.4	638.1	205.26	4.109	
13,600.0	7,596.0	13,459.7	7,449.0	106.2	106.2	-79.77	5,890.5	-511.1	844.6	635.9	208.70	4.047	
13,700.0	7,596.0	13,559.6	7,449.0	108.0	107.9	-79.76	5,990.5	-512.3	844.0	631.9	212.07	3.980	
13,800.0	7,596.0	13,659.6	7,449.0	109.7	109.6	-79.72	6,090.5	-513.5	841.3	625.8	215.45	3.905	
13,900.0	7,596.0	13,759.6	7,449.0	111.4	111.4	-79.69	6,190.4	-514.7	838.5	619.6	218.85	3.831	
14,000.0	7,596.0	13,859.5	7,449.0	113.2	113.1	-79.66	6,290.4	-516.0	835.7	613.4	222.25	3.760	
14,100.0	7,596.0	13,959.5	7,449.0	114.9	114.9	-79.62	6,390.3	-517.2	832.9	607.2	225.65	3.691	
14,200.0	7,596.0	14,059.4	7,449.0	116.6	116.6	-79.58	6,490.3	-518.4	830.1	601.0	229.06	3.624	
14,300.0	7,596.0	14,159.4	7,449.0	118.4	118.3	-79.55	6,590.2	-519.6	827.3	594.8	232.46	3.559	
14,400.0	7,596.0	14,259.4	7,449.0	120.1	120.1	-79.51	6,690.2	-520.8	824.5	588.6	235.86	3.496	
14,500.0	7,596.0	14,359.3	7,449.0	121.8	121.8	-79.48	6,790.2	-522.1	821.7	582.4	239.26	3.434	
14,600.0	7,596.0	14,459.3	7,449.0	123.6	123.6	-79.44	6,890.1	-523.3	818.9	576.2	242.66	3.375	
14,700.0	7,596.0	14,559.2	7,449.0	125.3	125.3	-79.40	6,990.1	-524.5	816.1	570.0	246.07	3.317	
14,800.0	7,596.0	14,659.2	7,449.0	127.1	127.0	-79.37	7,090.0	-525.7	813.3	563.9	249.47	3.260	
14,900.0	7,596.0	14,759.2	7,449.0	128.8	128.8	-79.33	7,190.0	-527.0	810.5	557.7	252.87	3.205	
15,000.0	7,596.0	14,859.1	7,449.0	130.5	130.5	-79.29	7,289.9	-528.2	807.7	551.5	256.26	3.152	
15,100.0	7,596.0	14,959.1	7,449.0	132.3	132.3	-79.26	7,389.9	-529.4	804.9	545.3	259.66	3.100	
15,200.0	7,596.0	15,059.0	7,449.0	134.0	134.0	-79.22	7,489.8	-530.6	802.2	539.1	263.06	3.049	
15,300.0	7,596.0	15,159.0	7,449.0	135.8	135.7	-79.18	7,589.8	-531.8	799.4	532.9	266.46	3.000	
15,306.1	7,596.0	15,165.1	7,449.0	135.9	135.9	-79.18	7,595.9	-531.9	799.2	532.5	266.66	2.997 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 Jillson-East Rinn 3E-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4963.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4963.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3E-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3E-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4963.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4963.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3E-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - Jillson-East Rinn 3B-22H-M268 - Hz - Plan #3													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	3.0	3.0	0.0	0.0	-89.32	0.4	-29.9	29.9					
100.0	100.0	103.0	103.0	0.2	0.2	-89.32	0.4	-29.9	29.9	29.6	0.31	96.874		
200.0	200.0	203.0	203.0	0.3	0.3	-89.32	0.4	-29.9	29.9	29.3	0.66	45.482		
265.6	265.6	268.6	268.6	0.4	0.4	-89.32	0.4	-29.9	29.9	29.0	0.89	33.735 CC		
300.0	300.0	303.0	303.0	0.5	0.5	-89.32	0.4	-29.9	29.9	28.9	1.01	29.718 ES		
400.0	400.0	402.7	402.7	0.7	0.7	131.76	-0.4	-30.4	31.0	29.6	1.36	22.849		
500.0	500.0	502.4	502.3	0.9	0.9	131.22	-2.7	-31.8	34.1	32.4	1.71	19.965		
600.0	599.9	601.9	601.7	1.0	1.0	130.55	-6.4	-34.2	39.4	37.3	2.07	19.000		
700.0	699.7	701.4	701.1	1.2	1.2	130.04	-11.4	-37.4	46.6	44.2	2.45	19.055		
800.0	799.4	801.1	800.6	1.4	1.4	130.02	-16.7	-40.7	54.4	51.6	2.82	19.273		
900.0	899.2	900.8	900.1	1.6	1.6	130.01	-22.0	-44.0	62.3	59.1	3.21	19.420		
1,000.0	999.0	1,000.5	999.6	1.8	1.8	130.00	-27.2	-47.4	70.1	66.5	3.59	19.523		
1,100.0	1,098.7	1,100.2	1,099.0	2.1	2.0	129.99	-32.5	-50.7	78.0	74.0	3.98	19.598		
1,200.0	1,198.5	1,199.8	1,198.5	2.3	2.2	129.98	-37.8	-54.0	85.8	81.4	4.37	19.655		
1,300.0	1,298.3	1,299.5	1,298.0	2.5	2.4	129.98	-43.1	-57.4	93.6	88.9	4.75	19.699		
1,400.0	1,398.1	1,399.2	1,397.5	2.7	2.6	129.97	-48.4	-60.7	101.5	96.3	5.14	19.734		
1,500.0	1,497.8	1,498.9	1,497.0	2.9	2.8	129.97	-53.7	-64.1	109.3	103.8	5.53	19.761		
1,600.0	1,597.6	1,598.6	1,596.5	3.1	3.0	129.96	-58.9	-67.4	117.2	111.2	5.92	19.784		
1,700.0	1,697.4	1,698.3	1,696.0	3.3	3.3	129.96	-64.2	-70.7	125.0	118.7	6.31	19.803		
1,800.0	1,797.1	1,798.0	1,795.5	3.5	3.5	129.96	-69.5	-74.1	132.9	126.2	6.70	19.819		
1,900.0	1,896.9	1,897.7	1,895.0	3.7	3.7	129.96	-74.8	-77.4	140.7	133.6	7.09	19.832		
2,000.0	1,996.7	1,997.4	1,994.5	3.9	3.9	129.95	-80.1	-80.8	148.5	141.1	7.49	19.843		
2,100.0	2,096.4	2,097.1	2,094.0	4.1	4.1	129.95	-85.3	-84.1	156.4	148.5	7.88	19.853		
2,200.0	2,196.2	2,196.8	2,193.5	4.3	4.3	129.95	-90.6	-87.4	164.2	156.0	8.27	19.862		
2,300.0	2,296.0	2,296.5	2,293.0	4.6	4.5	129.95	-95.9	-90.8	172.1	163.4	8.66	19.869		
2,400.0	2,395.7	2,396.1	2,392.5	4.8	4.7	129.95	-101.2	-94.1	179.9	170.9	9.05	19.876		
2,500.0	2,495.5	2,495.8	2,492.0	5.0	4.9	129.95	-106.5	-97.4	187.7	178.3	9.44	19.881		
2,600.0	2,595.3	2,595.5	2,591.5	5.2	5.1	129.94	-111.8	-100.8	195.6	185.7	9.83	19.887		
2,700.0	2,695.0	2,695.2	2,691.0	5.4	5.3	129.94	-117.0	-104.1	203.4	193.2	10.23	19.891		
2,800.0	2,794.8	2,794.9	2,790.5	5.6	5.5	129.94	-122.3	-107.5	211.3	200.6	10.62	19.895		
2,900.0	2,894.6	2,894.6	2,890.0	5.8	5.7	129.94	-127.6	-110.8	219.1	208.1	11.01	19.899		
3,000.0	2,994.3	2,994.3	2,989.5	6.0	5.9	129.94	-132.9	-114.1	226.9	215.5	11.40	19.902		
3,100.0	3,094.1	3,094.0	3,089.0	6.2	6.1	129.94	-138.2	-117.5	234.8	223.0	11.80	19.906		
3,200.0	3,193.9	3,193.7	3,188.5	6.5	6.3	129.94	-143.5	-120.8	242.6	230.4	12.19	19.908		
3,300.0	3,293.6	3,293.4	3,288.0	6.7	6.5	129.94	-148.7	-124.2	250.5	237.9	12.58	19.911		
3,400.0	3,393.4	3,393.1	3,387.5	6.9	6.7	129.94	-154.0	-127.5	258.3	245.3	12.97	19.913		
3,500.0	3,493.2	3,492.8	3,487.0	7.1	6.9	129.94	-159.3	-130.8	266.2	252.8	13.36	19.915		
3,600.0	3,593.0	3,592.5	3,586.5	7.3	7.1	129.94	-164.6	-134.2	274.0	260.2	13.76	19.917		
3,700.0	3,692.7	3,692.1	3,685.9	7.5	7.3	129.93	-169.9	-137.5	281.8	267.7	14.15	19.919		
3,800.0	3,792.5	3,791.8	3,785.4	7.7	7.6	129.93	-175.1	-140.8	289.7	275.1	14.54	19.921		
3,900.0	3,892.3	3,891.5	3,884.9	7.9	7.8	129.93	-180.4	-144.2	297.5	282.6	14.93	19.923		
4,000.0	3,992.0	3,991.2	3,984.4	8.1	8.0	129.93	-185.7	-147.5	305.4	290.0	15.33	19.924		
4,100.0	4,091.8	4,090.9	4,083.9	8.4	8.2	129.93	-191.0	-150.9	313.2	297.5	15.72	19.926		
4,200.0	4,191.6	4,190.6	4,183.4	8.6	8.4	129.93	-196.3	-154.2	321.0	304.9	16.11	19.927		
4,300.0	4,291.3	4,290.3	4,282.9	8.8	8.6	129.93	-201.6	-157.5	328.9	312.4	16.50	19.928		
4,400.0	4,391.1	4,390.0	4,382.4	9.0	8.8	129.93	-206.8	-160.9	336.7	319.8	16.90	19.929		
4,500.0	4,490.9	4,489.7	4,481.9	9.2	9.0	129.93	-212.1	-164.2	344.6	327.3	17.29	19.930		
4,600.0	4,590.6	4,589.4	4,581.4	9.4	9.2	129.93	-217.4	-167.6	352.4	334.7	17.68	19.931		
4,700.0	4,690.4	4,689.1	4,680.9	9.6	9.4	129.93	-222.7	-170.9	360.2	342.2	18.07	19.932		
4,800.0	4,790.2	4,788.8	4,780.4	9.8	9.6	129.93	-228.0	-174.2	368.1	349.6	18.47	19.933		
4,900.0	4,889.9	4,888.5	4,879.9	10.0	9.8	129.93	-233.3	-177.6	375.9	357.1	18.86	19.934		
5,000.0	4,989.7	4,988.1	4,979.4	10.3	10.0	129.93	-238.5	-180.9	383.8	364.5	19.25	19.935		

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 Jillson-East Rinn 3E-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4963.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4963.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3E-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - Jillson-East Rinn 3B-22H-M268 - Hz - Plan #3													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		
5,100.0	5,089.5	5,087.8	5,078.9	10.5	10.2	129.93	-243.8	-184.2	391.6	372.0	19.64	19.935		
5,200.0	5,189.2	5,187.5	5,178.4	10.7	10.4	129.93	-249.1	-187.6	399.5	379.4	20.04	19.936		
5,300.0	5,289.0	5,287.2	5,277.9	10.9	10.6	129.93	-254.4	-190.9	407.3	386.9	20.43	19.937		
5,400.0	5,388.8	5,386.9	5,377.4	11.1	10.8	129.93	-259.7	-194.3	415.1	394.3	20.82	19.938		
5,500.0	5,488.5	5,486.6	5,476.9	11.3	11.0	129.93	-264.9	-197.6	423.0	401.8	21.21	19.938		
5,600.0	5,588.3	5,586.3	5,576.4	11.5	11.2	129.93	-270.2	-200.9	430.8	409.2	21.61	19.939		
5,700.0	5,688.1	5,686.0	5,675.9	11.7	11.4	129.93	-275.5	-204.3	438.7	416.7	22.00	19.939		
5,800.0	5,787.8	5,785.7	5,775.4	11.9	11.7	129.93	-280.8	-207.6	446.5	424.1	22.39	19.940		
5,900.0	5,887.6	5,885.4	5,874.9	12.2	11.9	129.93	-286.1	-211.0	454.3	431.6	22.79	19.940		
6,000.0	5,987.4	5,985.1	5,974.4	12.4	12.1	129.93	-291.4	-214.3	462.2	439.0	23.18	19.941		
6,100.0	6,087.2	6,084.8	6,073.9	12.6	12.3	129.93	-296.6	-217.6	470.0	446.5	23.57	19.941		
6,200.0	6,186.9	6,184.4	6,173.3	12.8	12.5	129.93	-301.9	-221.0	477.9	453.9	23.96	19.942		
6,300.0	6,286.7	6,284.1	6,272.8	13.0	12.7	129.93	-307.2	-224.3	485.7	461.4	24.36	19.942		
6,400.0	6,386.5	6,383.8	6,372.3	13.2	12.9	129.93	-312.5	-227.6	493.5	468.8	24.75	19.943		
6,500.0	6,486.2	6,483.5	6,471.8	13.4	13.1	129.93	-317.8	-231.0	501.4	476.2	25.14	19.943		
6,600.0	6,586.0	6,583.2	6,571.3	13.6	13.3	129.93	-323.1	-234.3	509.2	483.7	25.53	19.943		
6,700.0	6,685.8	6,682.9	6,670.8	13.8	13.5	129.93	-328.3	-237.7	517.1	491.1	25.93	19.944		
6,800.0	6,785.5	6,782.6	6,770.3	14.1	13.7	129.93	-333.6	-241.0	524.9	498.6	26.32	19.944		
6,900.0	6,885.3	6,882.3	6,869.8	14.3	13.9	129.92	-338.9	-244.3	532.8	506.0	26.71	19.944		
7,000.0	6,985.1	6,982.0	6,969.3	14.5	14.1	129.92	-344.2	-247.7	540.6	513.5	27.10	19.945		
7,100.0	7,084.8	7,082.7	7,069.8	14.6	14.2	-113.71	-343.1	-251.1	548.5	521.2	27.33	20.070		
7,200.0	7,182.7	7,183.7	7,168.9	14.6	14.3	-99.35	-324.6	-254.7	556.5	529.2	27.31	20.376		
7,300.0	7,275.8	7,284.8	7,263.4	14.6	14.2	-95.28	-288.9	-258.3	564.2	537.1	27.11	20.810		
7,400.0	7,361.2	7,386.2	7,350.2	14.5	14.1	-93.12	-237.0	-261.8	571.5	544.7	26.84	21.296		
7,500.0	7,436.3	7,487.7	7,426.7	14.4	13.9	-91.70	-170.6	-265.1	578.2	551.6	26.61	21.729		
7,600.0	7,498.9	7,589.3	7,490.3	14.4	13.9	-90.65	-91.6	-268.1	583.9	557.4	26.56	21.983		
7,700.0	7,547.1	7,690.9	7,539.0	14.5	14.1	-89.88	-2.6	-270.7	588.7	561.8	26.83	21.941		
7,800.0	7,579.3	7,792.6	7,571.3	14.9	14.4	-89.31	93.7	-272.8	592.2	564.7	27.49	21.543		
7,900.0	7,594.7	7,894.2	7,586.1	15.4	14.9	-88.94	194.0	-274.3	594.4	565.9	28.57	20.808		
8,000.0	7,596.0	7,994.6	7,587.0	16.1	15.6	-88.85	294.5	-275.4	595.6	565.6	30.02	19.837		
8,100.0	7,596.0	8,094.6	7,587.0	16.9	16.5	-88.85	394.5	-276.5	596.6	564.8	31.80	18.761		
8,200.0	7,596.0	8,194.6	7,587.0	17.9	17.4	-88.85	494.4	-277.5	597.7	563.8	33.85	17.657		
8,300.0	7,596.0	8,294.6	7,587.0	19.0	18.6	-88.85	594.4	-278.6	598.7	562.6	36.12	16.575		
8,400.0	7,596.0	8,394.6	7,587.0	20.1	19.8	-88.85	694.4	-279.6	599.8	561.2	38.58	15.546		
8,500.0	7,596.0	8,494.6	7,587.0	21.4	21.0	-88.86	794.4	-280.7	600.8	559.6	41.19	14.586		
8,600.0	7,596.0	8,594.6	7,587.0	22.7	22.4	-88.86	894.4	-281.7	601.9	557.9	43.93	13.701		
8,700.0	7,596.0	8,694.6	7,587.0	24.1	23.8	-88.86	994.4	-282.8	602.9	556.1	46.77	12.892		
8,800.0	7,596.0	8,794.6	7,587.0	25.5	25.2	-88.86	1,094.4	-283.8	604.0	554.3	49.69	12.154		
8,900.0	7,596.0	8,894.6	7,587.0	27.0	26.7	-88.86	1,194.4	-284.9	605.0	552.3	52.69	11.483		
9,000.0	7,596.0	8,994.6	7,587.0	28.5	28.2	-88.87	1,294.4	-285.9	606.1	550.3	55.74	10.873		
9,100.0	7,596.0	9,094.6	7,587.0	30.0	29.7	-88.87	1,394.3	-286.9	607.1	548.3	58.85	10.317		
9,200.0	7,596.0	9,194.6	7,587.0	31.6	31.3	-88.87	1,494.3	-288.0	608.1	546.2	62.00	9.810		
9,300.0	7,596.0	9,294.6	7,587.0	33.1	32.9	-88.87	1,594.3	-289.0	609.2	544.0	65.18	9.346		
9,400.0	7,596.0	9,394.6	7,587.0	34.7	34.5	-88.87	1,694.3	-290.1	610.2	541.8	68.40	8.922		
9,500.0	7,596.0	9,494.5	7,587.0	36.3	36.1	-88.88	1,794.3	-291.1	611.3	539.6	71.64	8.533		
9,600.0	7,596.0	9,594.5	7,587.0	37.9	37.7	-88.88	1,894.3	-292.2	612.3	537.4	74.91	8.174		
9,700.0	7,596.0	9,694.5	7,587.0	39.6	39.3	-88.88	1,994.3	-293.2	613.4	535.2	78.20	7.844		
9,800.0	7,596.0	9,794.5	7,587.0	41.2	41.0	-88.88	2,094.3	-294.3	614.4	532.9	81.50	7.539		
9,900.0	7,596.0	9,894.5	7,587.0	42.8	42.6	-88.88	2,194.3	-295.3	615.5	530.6	84.83	7.256		
10,000.0	7,596.0	9,994.5	7,587.0	44.5	44.3	-88.88	2,294.2	-296.4	616.5	528.4	88.16	6.993		
10,100.0	7,596.0	10,094.5	7,587.0	46.2	46.0	-88.89	2,394.2	-297.4	617.6	526.1	91.51	6.748		
10,200.0	7,596.0	10,194.5	7,587.0	47.8	47.6	-88.89	2,494.2	-298.5	618.6	523.7	94.88	6.520		

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 Jillson-East Rinn 3E-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4963.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4963.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3E-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - Jillson-East Rinn 3B-22H-M268 - Hz - Plan #3													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		
10,300.0	7,596.0	10,294.5	7,587.0	49.5	49.3	-88.89	2,594.2	-299.5	619.7	521.4	98.25	6.307		
10,400.0	7,596.0	10,394.5	7,587.0	51.2	51.0	-88.89	2,694.2	-300.6	620.7	519.1	101.63	6.108		
10,500.0	7,596.0	10,494.5	7,587.0	52.9	52.7	-88.89	2,794.2	-301.6	621.8	516.7	105.02	5.920		
10,600.0	7,596.0	10,594.5	7,587.0	54.6	54.4	-88.90	2,894.2	-302.7	622.8	514.4	108.41	5.745		
10,700.0	7,596.0	10,694.5	7,587.0	56.3	56.1	-88.90	2,994.2	-303.7	623.8	512.0	111.82	5.579		
10,800.0	7,596.0	10,794.5	7,587.0	58.0	57.8	-88.90	3,094.2	-304.7	624.9	509.7	115.23	5.423		
10,900.0	7,596.0	10,894.5	7,587.0	59.7	59.5	-88.90	3,194.1	-305.8	625.9	507.3	118.64	5.276		
11,000.0	7,596.0	10,994.5	7,587.0	61.4	61.2	-88.90	3,294.1	-306.8	627.0	504.9	122.06	5.137		
11,100.0	7,596.0	11,094.5	7,587.0	63.1	62.9	-88.91	3,394.1	-307.9	628.0	502.5	125.49	5.005		
11,200.0	7,596.0	11,194.5	7,587.0	64.8	64.6	-88.91	3,494.1	-308.9	629.1	500.2	128.92	4.880		
11,300.0	7,596.0	11,294.4	7,587.0	66.5	66.3	-88.91	3,594.1	-310.0	630.1	497.8	132.35	4.761		
11,400.0	7,596.0	11,394.4	7,587.0	68.2	68.0	-88.91	3,694.1	-311.0	631.2	495.4	135.79	4.648		
11,500.0	7,596.0	11,494.4	7,587.0	69.9	69.7	-88.91	3,794.1	-312.1	632.2	493.0	139.23	4.541		
11,600.0	7,596.0	11,594.4	7,587.0	71.6	71.5	-88.91	3,894.1	-313.1	633.3	490.6	142.68	4.439		
11,700.0	7,596.0	11,694.4	7,587.0	73.3	73.2	-88.92	3,994.1	-314.2	634.3	488.2	146.12	4.341		
11,800.0	7,596.0	11,794.4	7,587.0	75.1	74.9	-88.92	4,094.0	-315.2	635.4	485.8	149.57	4.248		
11,900.0	7,596.0	11,894.4	7,587.0	76.8	76.6	-88.92	4,194.0	-316.3	636.4	483.4	153.03	4.159		
12,000.0	7,596.0	11,994.4	7,587.0	78.5	78.4	-88.92	4,294.0	-317.3	637.5	481.0	156.48	4.074		
12,100.0	7,596.0	12,094.4	7,587.0	80.2	80.1	-88.92	4,394.0	-318.4	638.5	478.6	159.94	3.992		
12,200.0	7,596.0	12,194.4	7,587.0	82.0	81.8	-88.92	4,494.0	-319.4	639.6	476.2	163.40	3.914		
12,300.0	7,596.0	12,294.4	7,587.0	83.7	83.5	-88.93	4,594.0	-320.5	640.6	473.7	166.86	3.839		
12,400.0	7,596.0	12,394.4	7,587.0	85.4	85.3	-88.93	4,694.0	-321.5	641.6	471.3	170.32	3.767		
12,500.0	7,596.0	12,494.4	7,587.0	87.1	87.0	-88.93	4,794.0	-322.5	642.7	468.9	173.79	3.698		
12,600.0	7,596.0	12,594.4	7,587.0	88.9	88.7	-88.93	4,894.0	-323.6	643.7	466.5	177.26	3.632		
12,700.0	7,596.0	12,694.4	7,587.0	90.6	90.5	-88.93	4,993.9	-324.6	644.8	464.1	180.72	3.568		
12,800.0	7,596.0	12,794.4	7,587.0	92.3	92.2	-88.94	5,093.9	-325.7	645.8	461.6	184.19	3.506		
12,900.0	7,596.0	12,894.4	7,587.0	94.1	93.9	-88.94	5,193.9	-326.7	646.9	459.2	187.67	3.447		
13,000.0	7,596.0	12,994.4	7,587.0	95.8	95.7	-88.94	5,293.9	-327.8	647.9	456.8	191.14	3.390		
13,100.0	7,596.0	13,094.4	7,587.0	97.5	97.4	-88.94	5,393.9	-328.8	649.0	454.4	194.61	3.335		
13,200.0	7,596.0	13,194.3	7,587.0	99.3	99.1	-88.94	5,493.9	-329.9	650.0	451.9	198.09	3.281		
13,300.0	7,596.0	13,294.3	7,587.0	101.0	100.9	-88.94	5,593.9	-330.9	651.1	449.5	201.56	3.230		
13,400.0	7,596.0	13,394.3	7,587.0	102.7	102.6	-88.95	5,693.9	-332.0	652.1	447.1	205.04	3.180		
13,500.0	7,596.0	13,494.3	7,587.0	104.5	104.4	-88.95	5,793.9	-333.0	653.2	444.6	208.52	3.132		
13,600.0	7,596.0	13,594.3	7,587.0	106.2	106.1	-88.95	5,893.9	-334.1	654.2	442.2	212.00	3.086		
13,700.0	7,596.0	13,694.3	7,587.0	108.0	107.8	-88.95	5,993.8	-335.1	655.3	438.1	215.34	3.035		
13,800.0	7,596.0	13,794.3	7,587.0	109.7	109.6	-88.94	6,093.8	-336.2	650.5	431.7	218.78	2.973		
13,900.0	7,596.0	13,894.2	7,587.0	111.4	111.3	-88.94	6,193.7	-337.2	647.5	425.2	222.26	2.913		
14,000.0	7,596.0	13,994.2	7,587.0	113.2	113.1	-88.93	6,293.7	-338.2	644.5	418.7	225.74	2.855		
14,100.0	7,596.0	14,094.1	7,587.0	114.9	114.8	-88.93	6,393.6	-339.3	641.4	412.2	229.22	2.798		
14,200.0	7,596.0	14,194.1	7,587.0	116.6	116.5	-88.92	6,493.6	-340.3	638.4	405.7	232.70	2.744		
14,300.0	7,596.0	14,294.0	7,587.0	118.4	118.3	-88.92	6,593.5	-341.4	635.4	399.2	236.19	2.690		
14,400.0	7,596.0	14,394.0	7,587.0	120.1	120.0	-88.91	6,693.5	-342.4	632.4	392.7	239.67	2.639		
14,500.0	7,596.0	14,494.0	7,587.0	121.8	121.8	-88.91	6,793.4	-343.5	629.4	386.2	243.15	2.588		
14,600.0	7,596.0	14,593.9	7,587.0	123.6	123.5	-88.90	6,893.4	-344.5	626.4	379.7	246.64	2.540		
14,700.0	7,596.0	14,693.9	7,587.0	125.3	125.2	-88.90	6,993.3	-345.6	623.4	373.2	250.12	2.492		
14,800.0	7,596.0	14,793.8	7,587.0	127.1	127.0	-88.89	7,093.3	-346.6	620.3	366.7	253.61	2.446		
14,900.0	7,596.0	14,893.8	7,587.0	128.8	128.7	-88.89	7,193.2	-347.7	617.3	360.2	257.10	2.401		
15,000.0	7,596.0	14,993.7	7,587.0	130.5	130.5	-88.88	7,293.2	-348.7	614.3	353.7	260.59	2.357		
15,100.0	7,596.0	15,093.7	7,587.0	132.3	132.2	-88.87	7,393.1	-349.8	611.3	347.2	264.07	2.315		
15,200.0	7,596.0	15,193.6	7,587.0	134.0	134.0	-88.87	7,493.1	-350.8	608.3	340.7	267.56	2.273		
15,300.0	7,596.0	15,293.6	7,587.0	135.8	135.7	-88.86	7,593.0	-351.9	605.3	334.2	271.05	2.233		
15,306.1	7,596.0	15,299.7	7,587.0	135.9	135.8	-88.86	7,599.1	-351.9	605.1	333.8	271.26	2.231 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 Jillson-East Rinn 3E-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4963.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4963.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3E-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3E-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4963.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4963.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3E-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - Jillson-East Rinn 3C-22H-M268 - Hz - Plan #2													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	3.0	3.0	0.0	0.0	-88.99	0.4	-19.9	19.9					
100.0	100.0	103.0	103.0	0.2	0.2	-88.99	0.4	-19.9	19.9	19.6	0.31	64.287		
200.0	200.0	203.0	203.0	0.3	0.3	-88.99	0.4	-19.9	19.9	19.2	0.66	30.182		
300.0	300.0	303.0	303.0	0.5	0.5	-88.99	0.4	-19.9	19.9	18.9	1.01	19.721	CC, ES	
400.0	400.0	403.0	403.0	0.7	0.7	134.16	0.4	-19.9	20.5	19.1	1.36	15.082		
500.0	500.0	503.0	503.0	0.9	0.9	138.96	0.4	-19.9	22.4	20.7	1.71	13.100		
600.0	599.9	602.9	602.9	1.0	1.0	145.31	0.4	-19.9	25.8	23.8	2.06	12.540		
700.0	699.7	702.7	702.7	1.2	1.2	150.02	-0.5	-20.1	30.9	28.5	2.41	12.826		
800.0	799.4	802.6	802.6	1.4	1.4	151.19	-3.1	-20.7	36.6	33.8	2.77	13.215		
900.0	899.2	902.6	902.4	1.6	1.6	149.69	-7.4	-21.7	42.0	38.9	3.13	13.420		
1,000.0	999.0	1,002.4	1,002.1	1.8	1.8	146.85	-13.1	-23.0	47.5	44.0	3.51	13.529		
1,100.0	1,098.7	1,102.2	1,101.7	2.1	1.9	144.46	-18.8	-24.4	53.0	49.1	3.89	13.622		
1,200.0	1,198.5	1,202.1	1,201.4	2.3	2.1	142.53	-24.6	-25.7	58.6	54.3	4.27	13.704		
1,300.0	1,298.3	1,301.9	1,301.0	2.5	2.3	140.93	-30.4	-27.1	64.2	59.5	4.66	13.776		
1,400.0	1,398.1	1,401.7	1,400.7	2.7	2.5	139.59	-36.1	-28.5	69.9	64.8	5.05	13.839		
1,500.0	1,497.8	1,501.5	1,500.3	2.9	2.7	138.45	-41.9	-29.8	75.6	70.2	5.44	13.895		
1,600.0	1,597.6	1,601.4	1,600.0	3.1	2.9	137.48	-47.7	-31.2	81.3	75.5	5.83	13.944		
1,700.0	1,697.4	1,701.2	1,699.6	3.3	3.1	136.63	-53.4	-32.5	87.1	80.9	6.23	13.989		
1,800.0	1,797.1	1,801.0	1,799.3	3.5	3.3	135.89	-59.2	-33.9	92.9	86.3	6.62	14.029		
1,900.0	1,896.9	1,900.8	1,898.9	3.7	3.5	135.23	-64.9	-35.3	98.7	91.7	7.02	14.065		
2,000.0	1,996.7	2,000.7	1,998.6	3.9	3.7	134.65	-70.7	-36.6	104.5	97.1	7.41	14.098		
2,100.0	2,096.4	2,100.5	2,098.2	4.1	3.9	134.13	-76.5	-38.0	110.3	102.5	7.81	14.128		
2,200.0	2,196.2	2,200.3	2,197.9	4.3	4.1	133.66	-82.2	-39.3	116.1	107.9	8.20	14.155		
2,300.0	2,296.0	2,300.1	2,297.5	4.6	4.3	133.23	-88.0	-40.7	121.9	113.3	8.60	14.180		
2,400.0	2,395.7	2,400.0	2,397.2	4.8	4.5	132.85	-93.8	-42.1	127.8	118.8	9.00	14.203		
2,500.0	2,495.5	2,499.8	2,496.8	5.0	4.7	132.49	-99.5	-43.4	133.6	124.2	9.39	14.224		
2,600.0	2,595.3	2,599.6	2,596.5	5.2	4.9	132.17	-105.3	-44.8	139.5	129.7	9.79	14.244		
2,700.0	2,695.0	2,699.4	2,696.1	5.4	5.1	131.88	-111.1	-46.1	145.3	135.1	10.19	14.263		
2,800.0	2,794.8	2,799.3	2,795.8	5.6	5.3	131.60	-116.8	-47.5	151.2	140.6	10.59	14.280		
2,900.0	2,894.6	2,899.1	2,895.4	5.8	5.5	131.35	-122.6	-48.9	157.0	146.0	10.98	14.296		
3,000.0	2,994.3	2,998.9	2,995.1	6.0	5.7	131.11	-128.4	-50.2	162.9	151.5	11.38	14.311		
3,100.0	3,094.1	3,098.8	3,094.7	6.2	5.9	130.90	-134.1	-51.6	168.7	156.9	11.78	14.325		
3,200.0	3,193.9	3,198.6	3,194.4	6.5	6.1	130.69	-139.9	-52.9	174.6	162.4	12.18	14.338		
3,300.0	3,293.6	3,298.4	3,294.0	6.7	6.3	130.50	-145.6	-54.3	180.5	167.9	12.57	14.350		
3,400.0	3,393.4	3,398.2	3,393.7	6.9	6.5	130.32	-151.4	-55.7	186.3	173.3	12.97	14.362		
3,500.0	3,493.2	3,498.1	3,493.4	7.1	6.7	130.15	-157.2	-57.0	192.2	178.8	13.37	14.373		
3,600.0	3,593.0	3,597.9	3,593.0	7.3	6.9	130.00	-162.9	-58.4	198.1	184.3	13.77	14.384		
3,700.0	3,692.7	3,697.7	3,692.7	7.5	7.1	129.85	-168.7	-59.8	203.9	189.8	14.17	14.393		
3,800.0	3,792.5	3,797.5	3,792.3	7.7	7.3	129.71	-174.5	-61.1	209.8	195.2	14.57	14.403		
3,900.0	3,892.3	3,897.4	3,892.0	7.9	7.5	129.57	-180.2	-62.5	215.7	200.7	14.97	14.412		
4,000.0	3,992.0	3,997.2	3,991.6	8.1	7.7	129.45	-186.0	-63.8	221.6	206.2	15.36	14.420		
4,100.0	4,091.8	4,097.0	4,091.3	8.4	7.9	129.33	-191.8	-65.2	227.4	211.7	15.76	14.428		
4,200.0	4,191.6	4,196.8	4,190.9	8.6	8.1	129.22	-197.5	-66.6	233.3	217.1	16.16	14.436		
4,300.0	4,291.3	4,296.7	4,290.6	8.8	8.3	129.11	-203.3	-67.9	239.2	222.6	16.56	14.443		
4,400.0	4,391.1	4,396.5	4,390.2	9.0	8.5	129.01	-209.1	-69.3	245.1	228.1	16.96	14.451		
4,500.0	4,490.9	4,496.3	4,489.9	9.2	8.7	128.91	-214.8	-70.6	250.9	233.6	17.36	14.457		
4,600.0	4,590.6	4,596.1	4,589.5	9.4	8.9	128.82	-220.6	-72.0	256.8	239.1	17.76	14.464		
4,700.0	4,690.4	4,696.0	4,689.2	9.6	9.2	128.73	-226.3	-73.4	262.7	244.5	18.15	14.470		
4,800.0	4,790.2	4,795.8	4,788.8	9.8	9.4	128.64	-232.1	-74.7	268.6	250.0	18.55	14.476		
4,900.0	4,889.9	4,895.6	4,888.5	10.0	9.6	128.56	-237.9	-76.1	274.5	255.5	18.95	14.482		
5,000.0	4,989.7	4,995.4	4,988.1	10.3	9.8	128.48	-243.6	-77.4	280.3	261.0	19.35	14.487		
5,100.0	5,089.5	5,095.3	5,087.8	10.5	10.0	128.41	-249.4	-78.8	286.2	266.5	19.75	14.492		

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 Jillson-East Rinn 3E-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4963.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4963.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3E-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - Jillson-East Rinn 3C-22H-M268 - Hz - Plan #2													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)	
5,200.0	5,189.2	5,195.1	5,187.4	10.7	10.2	128.33	-255.2	-80.2	292.1	272.0	20.15	14.497		
5,300.0	5,289.0	5,294.9	5,287.1	10.9	10.4	128.27	-260.9	-81.5	298.0	277.4	20.55	14.502		
5,400.0	5,388.8	5,394.8	5,386.7	11.1	10.6	128.20	-266.7	-82.9	303.9	282.9	20.95	14.507		
5,500.0	5,488.5	5,494.6	5,486.4	11.3	10.8	128.14	-272.5	-84.2	309.8	288.4	21.35	14.511		
5,600.0	5,588.3	5,594.4	5,586.0	11.5	11.0	128.07	-278.2	-85.6	315.6	293.9	21.74	14.516		
5,700.0	5,688.1	5,694.2	5,685.7	11.7	11.2	128.01	-284.0	-87.0	321.5	299.4	22.14	14.520		
5,800.0	5,787.8	5,794.1	5,785.3	11.9	11.4	127.96	-289.8	-88.3	327.4	304.9	22.54	14.524		
5,900.0	5,887.6	5,893.9	5,885.0	12.2	11.6	127.90	-295.5	-89.7	333.3	310.4	22.94	14.528		
6,000.0	5,987.4	5,993.7	5,984.6	12.4	11.8	127.85	-301.3	-91.0	339.2	315.8	23.34	14.532		
6,100.0	6,087.2	6,093.5	6,084.3	12.6	12.0	127.80	-307.0	-92.4	345.1	321.3	23.74	14.536		
6,200.0	6,186.9	6,193.4	6,183.9	12.8	12.2	127.75	-312.8	-93.8	351.0	326.8	24.14	14.539		
6,300.0	6,286.7	6,293.2	6,283.6	13.0	12.4	127.70	-318.6	-95.1	356.8	332.3	24.54	14.543		
6,400.0	6,386.5	6,393.0	6,383.2	13.2	12.6	127.65	-324.3	-96.5	362.7	337.8	24.94	14.546		
6,500.0	6,486.2	6,492.8	6,482.9	13.4	12.8	127.61	-330.1	-97.8	368.6	343.3	25.34	14.549		
6,600.0	6,586.0	6,592.7	6,582.5	13.6	13.0	127.57	-335.9	-99.2	374.5	348.8	25.73	14.552		
6,700.0	6,685.8	6,692.5	6,682.2	13.8	13.2	127.52	-341.6	-100.6	380.4	354.3	26.13	14.555		
6,800.0	6,785.5	6,793.0	6,782.5	14.1	13.4	127.51	-347.3	-101.9	386.3	359.7	26.53	14.560		
6,900.0	6,885.3	6,896.4	6,885.6	14.3	13.5	129.18	-341.5	-103.3	391.5	364.7	26.77	14.624		
7,000.0	6,985.1	6,993.0	6,979.5	14.5	13.4	133.09	-319.4	-104.3	397.1	370.3	26.82	14.808		
7,100.0	7,084.8	7,081.5	7,061.2	14.6	13.3	-105.85	-285.6	-105.2	405.5	378.8	26.66	15.208		
7,200.0	7,182.7	7,165.9	7,133.4	14.6	13.2	-87.22	-242.1	-105.8	416.3	389.9	26.39	15.776		
7,300.0	7,275.8	7,250.0	7,198.2	14.6	13.1	-79.28	-188.6	-106.3	428.5	402.5	26.05	16.448		
7,400.0	7,361.2	7,325.6	7,249.2	14.5	13.0	-74.06	-132.8	-106.6	441.0	415.3	25.73	17.140		
7,500.0	7,436.3	7,400.0	7,291.8	14.4	13.0	-70.09	-71.9	-106.8	452.9	427.5	25.44	17.803		
7,600.0	7,498.9	7,477.3	7,327.3	14.4	13.1	-66.96	-3.4	-106.7	463.4	438.1	25.27	18.336		
7,700.0	7,547.1	7,550.0	7,352.1	14.5	13.3	-64.72	65.0	-106.6	471.8	446.5	25.27	18.669		
7,800.0	7,579.3	7,624.3	7,368.2	14.9	13.7	-63.19	137.4	-106.3	477.7	452.1	25.57	18.680		
7,900.0	7,594.7	7,700.0	7,374.9	15.4	14.1	-62.35	212.8	-105.9	480.7	454.5	26.21	18.338		
8,000.0	7,596.0	7,790.9	7,375.0	16.1	14.8	-62.22	303.7	-105.2	480.6	453.2	27.43	17.523		
8,100.0	7,596.0	7,890.9	7,375.0	16.9	15.7	-62.18	403.7	-104.5	480.0	451.0	29.03	16.534		
8,200.0	7,596.0	7,990.9	7,375.0	17.9	16.7	-62.14	503.7	-103.8	479.4	448.5	30.86	15.533		
8,300.0	7,596.0	8,090.9	7,375.0	19.0	17.9	-62.10	603.7	-103.1	478.8	445.9	32.88	14.559		
8,400.0	7,596.0	8,190.9	7,375.0	20.1	19.1	-62.07	703.6	-102.4	478.2	443.1	35.06	13.637		
8,500.0	7,596.0	8,290.9	7,375.0	21.4	20.5	-62.03	803.6	-101.7	477.5	440.2	37.37	12.779		
8,600.0	7,596.0	8,390.9	7,375.0	22.7	21.8	-61.99	903.6	-101.0	476.9	437.1	39.78	11.989		
8,700.0	7,596.0	8,490.9	7,375.0	24.1	23.3	-61.95	1,003.6	-100.3	476.3	434.0	42.28	11.266		
8,800.0	7,596.0	8,590.9	7,375.0	25.5	24.7	-61.91	1,103.6	-99.6	475.7	430.8	44.85	10.606		
8,900.0	7,596.0	8,690.9	7,375.0	27.0	26.3	-61.87	1,203.6	-98.9	475.1	427.6	47.48	10.006		
9,000.0	7,596.0	8,790.9	7,375.0	28.5	27.8	-61.83	1,303.6	-98.2	474.5	424.3	50.16	9.458		
9,100.0	7,596.0	8,890.9	7,375.0	30.0	29.4	-61.79	1,403.6	-97.6	473.8	421.0	52.89	8.960		
9,200.0	7,596.0	8,990.9	7,375.0	31.6	30.9	-61.75	1,503.6	-96.9	473.2	417.6	55.64	8.505		
9,300.0	7,596.0	9,090.9	7,375.0	33.1	32.5	-61.71	1,603.6	-96.2	472.6	414.2	58.43	8.088		
9,400.0	7,596.0	9,190.8	7,375.0	34.7	34.1	-61.67	1,703.6	-95.5	472.0	410.8	61.25	7.707		
9,500.0	7,596.0	9,300.4	7,375.0	36.3	35.9	-61.57	1,813.1	-93.7	470.6	406.4	64.19	7.332		
9,600.0	7,596.0	9,402.3	7,375.0	37.9	37.6	-61.36	1,915.0	-90.2	467.6	400.6	66.98	6.981		
9,700.0	7,596.0	9,502.3	7,375.0	39.6	39.2	-61.15	2,014.9	-86.7	464.5	394.8	69.75	6.660		
9,800.0	7,596.0	9,602.2	7,375.0	41.2	40.9	-60.95	2,114.8	-83.2	461.5	388.9	72.52	6.363		
9,900.0	7,596.0	9,702.2	7,375.0	42.8	42.6	-60.73	2,214.7	-79.7	458.4	383.1	75.29	6.089		
10,000.0	7,596.0	9,802.1	7,375.0	44.5	44.2	-60.52	2,314.5	-76.2	455.4	377.3	78.05	5.834		
10,100.0	7,596.0	9,902.0	7,375.0	46.2	45.9	-60.30	2,414.4	-72.7	452.3	371.5	80.82	5.597		
10,200.0	7,596.0	10,002.0	7,375.0	47.8	47.6	-60.08	2,514.3	-69.2	449.3	365.7	83.57	5.376		
10,300.0	7,596.0	10,101.9	7,375.0	49.5	49.3	-59.86	2,614.2	-65.8	446.3	360.0	86.32	5.170		

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 Jillson-East Rinn 3E-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4963.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4963.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3E-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - Jillson-East Rinn 3C-22H-M268 - Hz - Plan #2												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
10,400.0	7,596.0	10,194.3	7,375.0	51.2	50.8	-59.70	2,706.5	-63.3	444.0	355.0	89.01	4.988	
10,492.9	7,596.0	10,281.4	7,375.0	52.8	52.3	-59.67	2,793.6	-62.8	443.5	351.9	91.62	4.841	
10,500.0	7,596.0	10,288.5	7,375.0	52.9	52.4	-59.67	2,800.7	-62.8	443.5	351.7	91.83	4.830	
10,600.0	7,596.0	10,388.5	7,375.0	54.6	54.1	-59.67	2,900.7	-62.8	443.5	348.8	94.76	4.681	
10,653.0	7,596.0	10,441.5	7,375.0	55.5	55.1	-59.67	2,953.7	-62.8	443.5	347.2	96.32	4.605	
10,700.0	7,596.0	10,484.3	7,375.0	56.3	55.8	-59.68	2,996.5	-63.0	443.7	346.1	97.65	4.544	
10,800.0	7,596.0	10,581.5	7,375.0	58.0	57.4	-59.79	3,093.7	-64.7	445.2	344.6	100.66	4.423	
10,900.0	7,596.0	10,681.5	7,375.0	59.7	59.2	-59.91	3,193.6	-66.5	446.8	343.1	103.72	4.307	
11,000.0	7,596.0	10,781.4	7,375.0	61.4	60.9	-60.02	3,293.6	-68.3	448.4	341.6	106.80	4.198	
11,100.0	7,596.0	10,881.4	7,375.0	63.1	62.6	-60.14	3,393.6	-70.2	450.0	340.1	109.89	4.095	
11,200.0	7,596.0	10,981.4	7,375.0	64.8	64.3	-60.25	3,493.5	-72.0	451.5	338.6	112.99	3.996	
11,300.0	7,596.0	11,081.4	7,375.0	66.5	66.0	-60.37	3,593.5	-73.8	453.1	337.0	116.09	3.903	
11,400.0	7,596.0	11,181.4	7,375.0	68.2	67.7	-60.48	3,693.5	-75.6	454.7	335.5	119.21	3.814	
11,500.0	7,596.0	11,281.4	7,375.0	69.9	69.5	-60.60	3,793.4	-77.5	456.3	334.0	122.33	3.730	
11,600.0	7,596.0	11,381.3	7,375.0	71.6	71.2	-60.71	3,893.4	-79.3	457.9	332.4	125.47	3.650	
11,700.0	7,596.0	11,481.3	7,375.0	73.3	72.9	-60.82	3,993.4	-81.1	459.5	330.9	128.61	3.573	
11,800.0	7,596.0	11,581.3	7,375.0	75.1	74.6	-60.93	4,093.3	-82.9	461.1	329.3	131.75	3.500	
11,900.0	7,596.0	11,681.3	7,375.0	76.8	76.4	-61.04	4,193.3	-84.8	462.7	327.8	134.91	3.430	
12,000.0	7,596.0	11,781.3	7,375.0	78.5	78.1	-61.15	4,293.3	-86.6	464.3	326.2	138.07	3.363	
12,100.0	7,596.0	11,881.3	7,375.0	80.2	79.8	-61.26	4,393.2	-88.4	465.9	324.6	141.24	3.298	
12,200.0	7,596.0	11,981.3	7,375.0	82.0	81.6	-61.36	4,493.2	-90.2	467.5	323.1	144.42	3.237	
12,300.0	7,596.0	12,081.2	7,375.0	83.7	83.3	-61.47	4,593.2	-92.1	469.1	321.5	147.60	3.178	
12,400.0	7,596.0	12,181.2	7,375.0	85.4	85.0	-61.58	4,693.1	-93.9	470.7	319.9	150.79	3.121	
12,500.0	7,596.0	12,281.2	7,375.0	87.1	86.8	-61.68	4,793.1	-95.7	472.3	318.3	153.99	3.067	
12,600.0	7,596.0	12,381.2	7,375.0	88.9	88.5	-61.79	4,893.1	-97.5	473.9	316.7	157.19	3.015	
12,700.0	7,596.0	12,481.2	7,375.0	90.6	90.2	-61.89	4,993.0	-99.4	475.5	315.1	160.39	2.965	
12,800.0	7,596.0	12,581.2	7,375.0	92.3	92.0	-61.99	5,093.0	-101.2	477.1	313.5	163.61	2.916	
12,900.0	7,596.0	12,681.1	7,375.0	94.1	93.7	-62.10	5,193.0	-103.0	478.7	311.9	166.83	2.870	
13,000.0	7,596.0	12,781.1	7,375.0	95.8	95.4	-62.20	5,292.9	-104.8	480.3	310.3	170.05	2.825	
13,100.0	7,596.0	12,881.1	7,375.0	97.5	97.2	-62.30	5,392.9	-106.7	482.0	308.7	173.28	2.781	
13,200.0	7,596.0	12,981.1	7,375.0	99.3	98.9	-62.40	5,492.9	-108.5	483.6	307.1	176.51	2.740	
13,300.0	7,596.0	13,081.1	7,375.0	101.0	100.6	-62.50	5,592.8	-110.3	485.2	305.4	179.75	2.699	
13,400.0	7,596.0	13,181.1	7,375.0	102.7	102.4	-62.60	5,692.8	-112.1	486.8	303.8	183.00	2.660	
13,500.0	7,596.0	13,281.0	7,375.0	104.5	104.1	-62.70	5,792.8	-114.0	488.4	302.2	186.25	2.622	
13,600.0	7,596.0	13,381.0	7,375.0	106.2	105.9	-62.80	5,892.7	-115.8	490.1	300.5	189.50	2.586	
13,700.0	7,596.0	13,481.0	7,375.0	108.0	107.6	-62.80	5,992.7	-117.6	490.1	297.7	192.35	2.548	
13,800.0	7,596.0	13,581.0	7,375.0	109.7	109.4	-62.68	6,092.7	-119.4	488.1	292.9	195.19	2.501	
13,900.0	7,596.0	13,681.0	7,375.0	111.4	111.1	-62.56	6,192.6	-121.3	486.1	288.1	198.08	2.454	
14,000.0	7,596.0	13,780.9	7,375.0	113.2	112.8	-62.44	6,292.6	-123.1	484.2	283.2	200.96	2.409	
14,100.0	7,596.0	13,880.9	7,375.0	114.9	114.6	-62.31	6,392.6	-124.9	482.2	278.3	203.84	2.365	
14,200.0	7,596.0	13,980.9	7,375.0	116.6	116.3	-62.19	6,492.5	-126.7	480.2	273.5	206.70	2.323	
14,300.0	7,596.0	14,080.9	7,375.0	118.4	118.1	-62.06	6,592.5	-128.6	478.2	268.7	209.56	2.282	
14,400.0	7,596.0	14,180.8	7,375.0	120.1	119.8	-61.94	6,692.4	-130.4	476.2	263.8	212.41	2.242	
14,500.0	7,596.0	14,280.8	7,375.0	121.8	121.6	-61.81	6,792.4	-132.2	474.3	259.0	215.25	2.203	
14,600.0	7,596.0	14,380.8	7,375.0	123.6	123.3	-61.68	6,892.3	-134.0	472.3	254.2	218.07	2.166	
14,700.0	7,596.0	14,480.8	7,375.0	125.3	125.0	-61.55	6,992.3	-135.9	470.3	249.4	220.89	2.129	
14,800.0	7,596.0	14,580.7	7,375.0	127.1	126.8	-61.42	7,092.3	-137.7	468.4	244.7	223.70	2.094	
14,900.0	7,596.0	14,680.7	7,375.0	128.8	128.5	-61.29	7,192.2	-139.5	466.4	239.9	226.50	2.059	
15,000.0	7,596.0	14,780.7	7,375.0	130.5	130.3	-61.16	7,292.2	-141.3	464.4	235.2	229.29	2.026	
15,100.0	7,596.0	14,880.7	7,375.0	132.3	132.0	-61.02	7,392.1	-143.2	462.5	230.4	232.06	1.993	
15,200.0	7,596.0	14,980.6	7,375.0	134.0	133.8	-60.89	7,492.1	-145.0	460.5	225.7	234.83	1.961	
15,300.0	7,596.0	15,080.6	7,375.0	135.8	135.5	-60.75	7,592.1	-146.8	458.6	221.0	237.58	1.930	

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 Jillson-East Rinn 3E-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4963.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4963.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3E-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - Jillson-East Rinn 3C-22H-M268 - Hz - Plan #2												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
15,306.1	7,596.0	15,086.7	7,375.0	135.9	135.6	-60.75	7,598.1	-146.9	458.5	220.7	237.75	1.928 SF	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3E-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4963.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4963.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3E-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - Jillson-East Rinn 3D-22H-M268 - Hz - Plan #2													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	3.0	3.0	0.0	0.0	-87.89	0.4	-9.8	9.8					
100.0	100.0	103.0	103.0	0.2	0.2	-87.89	0.4	-9.8	9.8	9.5	0.30	32.254		
200.0	200.0	203.0	203.0	0.3	0.3	-87.89	0.4	-9.8	9.8	9.1	0.65	15.006		
300.0	300.0	303.0	303.0	0.5	0.5	-87.89	0.4	-9.8	9.8	8.8	1.00	9.777	CC, ES	
400.0	400.0	403.0	403.0	0.7	0.7	136.93	0.4	-9.8	10.4	9.1	1.35	7.708		
500.0	500.0	503.0	503.0	0.9	0.8	145.17	0.4	-9.8	12.5	10.8	1.70	7.322		
600.0	599.9	603.0	603.0	1.0	1.0	151.49	-0.5	-9.5	15.6	13.6	2.05	7.612		
700.0	699.7	703.2	703.1	1.2	1.2	154.04	-3.0	-8.6	19.3	16.9	2.41	8.016		
800.0	799.4	803.4	803.2	1.4	1.4	153.33	-7.2	-7.1	22.4	19.7	2.77	8.108		
900.0	899.2	903.4	903.1	1.6	1.6	150.43	-12.6	-5.1	24.7	21.6	3.13	7.879		
1,000.0	999.0	1,003.4	1,002.9	1.8	1.8	147.86	-18.1	-3.1	27.0	23.5	3.51	7.686		
1,100.0	1,098.7	1,103.4	1,102.7	2.1	2.0	145.70	-23.7	-1.2	29.3	25.4	3.89	7.532		
1,200.0	1,198.5	1,203.3	1,202.5	2.3	2.2	143.85	-29.2	0.8	31.6	27.4	4.27	7.408		
1,300.0	1,298.3	1,303.3	1,302.3	2.5	2.4	142.27	-34.7	2.8	34.0	29.3	4.65	7.305		
1,400.0	1,398.1	1,403.3	1,402.1	2.7	2.6	140.89	-40.2	4.8	36.4	31.4	5.04	7.219		
1,500.0	1,497.8	1,503.2	1,501.9	2.9	2.7	139.68	-45.7	6.8	38.8	33.4	5.43	7.146		
1,600.0	1,597.6	1,603.2	1,601.7	3.1	2.9	138.61	-51.2	8.8	41.3	35.4	5.82	7.083		
1,700.0	1,697.4	1,703.2	1,701.5	3.3	3.1	137.67	-56.8	10.8	43.7	37.5	6.22	7.029		
1,800.0	1,797.1	1,803.1	1,801.3	3.5	3.3	136.82	-62.3	12.7	46.2	39.5	6.61	6.981		
1,900.0	1,896.9	1,903.1	1,901.1	3.7	3.5	136.06	-67.8	14.7	48.6	41.6	7.01	6.939		
2,000.0	1,996.7	2,003.1	2,000.9	3.9	3.7	135.37	-73.3	16.7	51.1	43.7	7.40	6.902		
2,100.0	2,096.4	2,103.0	2,100.7	4.1	3.9	134.75	-78.8	18.7	53.6	45.8	7.80	6.869		
2,200.0	2,196.2	2,203.0	2,200.5	4.3	4.1	134.18	-84.3	20.7	56.1	47.9	8.20	6.840		
2,300.0	2,296.0	2,303.0	2,300.3	4.6	4.3	133.66	-89.9	22.7	58.6	50.0	8.60	6.813		
2,400.0	2,395.7	2,402.9	2,400.1	4.8	4.5	133.18	-95.4	24.6	61.1	52.1	8.99	6.789		
2,500.0	2,495.5	2,502.9	2,499.9	5.0	4.7	132.74	-100.9	26.6	63.6	54.2	9.39	6.766		
2,600.0	2,595.3	2,602.9	2,599.6	5.2	4.9	132.34	-106.4	28.6	66.1	56.3	9.79	6.746		
2,700.0	2,695.0	2,702.8	2,699.4	5.4	5.2	131.96	-111.9	30.6	68.6	58.4	10.19	6.728		
2,800.0	2,794.8	2,802.8	2,799.2	5.6	5.4	131.61	-117.4	32.6	71.1	60.5	10.59	6.711		
2,900.0	2,894.6	2,902.8	2,899.0	5.8	5.6	131.28	-123.0	34.6	73.6	62.6	10.99	6.695		
3,000.0	2,994.3	3,002.7	2,998.8	6.0	5.8	130.98	-128.5	36.5	76.1	64.7	11.39	6.681		
3,100.0	3,094.1	3,102.7	3,098.6	6.2	6.0	130.69	-134.0	38.5	78.6	66.8	11.79	6.667		
3,200.0	3,193.9	3,202.7	3,198.4	6.5	6.2	130.42	-139.5	40.5	81.1	68.9	12.19	6.655		
3,300.0	3,293.6	3,302.7	3,298.2	6.7	6.4	130.17	-145.0	42.5	83.7	71.1	12.59	6.643		
3,400.0	3,393.4	3,402.6	3,398.0	6.9	6.6	129.94	-150.5	44.5	86.2	73.2	12.99	6.632		
3,500.0	3,493.2	3,502.6	3,497.8	7.1	6.8	129.71	-156.1	46.5	88.7	75.3	13.39	6.622		
3,600.0	3,593.0	3,602.6	3,597.6	7.3	7.0	129.50	-161.6	48.4	91.2	77.4	13.80	6.612		
3,700.0	3,692.7	3,702.5	3,697.4	7.5	7.2	129.30	-167.1	50.4	93.7	79.6	14.20	6.603		
3,800.0	3,792.5	3,802.5	3,797.2	7.7	7.4	129.11	-172.6	52.4	96.3	81.7	14.60	6.595		
3,900.0	3,892.3	3,902.5	3,897.0	7.9	7.6	128.93	-178.1	54.4	98.8	83.8	15.00	6.587		
4,000.0	3,992.0	4,002.4	3,996.8	8.1	7.8	128.76	-183.6	56.4	101.3	85.9	15.40	6.579		
4,100.0	4,091.8	4,102.4	4,096.6	8.4	8.0	128.60	-189.2	58.4	103.9	88.1	15.80	6.572		
4,200.0	4,191.6	4,202.4	4,196.4	8.6	8.2	128.45	-194.7	60.3	106.4	90.2	16.20	6.565		
4,300.0	4,291.3	4,302.3	4,296.2	8.8	8.4	128.30	-200.2	62.3	108.9	92.3	16.61	6.559		
4,400.0	4,391.1	4,402.3	4,396.0	9.0	8.6	128.16	-205.7	64.3	111.4	94.4	17.01	6.553		
4,500.0	4,490.9	4,502.3	4,495.8	9.2	8.8	128.02	-211.2	66.3	114.0	96.6	17.41	6.547		
4,600.0	4,590.6	4,602.2	4,595.6	9.4	9.0	127.89	-216.7	68.3	116.5	98.7	17.81	6.541		
4,700.0	4,690.4	4,702.2	4,695.4	9.6	9.2	127.77	-222.3	70.3	119.0	100.8	18.21	6.536		
4,800.0	4,790.2	4,802.2	4,795.1	9.8	9.4	127.65	-227.8	72.2	121.6	103.0	18.62	6.531		
4,900.0	4,889.9	4,902.1	4,894.9	10.0	9.6	127.54	-233.3	74.2	124.1	105.1	19.02	6.526		
5,000.0	4,989.7	5,002.1	4,994.7	10.3	9.8	127.43	-238.8	76.2	126.6	107.2	19.42	6.522		
5,100.0	5,089.5	5,102.1	5,094.5	10.5	10.0	127.33	-244.3	78.2	129.2	109.4	19.82	6.517		

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 Jillson-East Rinn 3E-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4963.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4963.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3E-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - Jillson-East Rinn 3D-22H-M268 - Hz - Plan #2												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	5,189.2	5,202.0	5,194.3	10.7	10.2	127.23	-249.8	80.2	131.7	111.5	20.22	6.513	
5,300.0	5,289.0	5,302.0	5,294.1	10.9	10.4	127.13	-255.4	82.2	134.3	113.6	20.63	6.509	
5,400.0	5,388.8	5,402.0	5,393.9	11.1	10.6	127.04	-260.9	84.1	136.8	115.8	21.03	6.505	
5,500.0	5,488.5	5,501.9	5,493.7	11.3	10.8	126.95	-266.4	86.1	139.3	117.9	21.43	6.501	
5,600.0	5,588.3	5,601.9	5,593.5	11.5	11.0	126.86	-271.9	88.1	141.9	120.0	21.83	6.498	
5,700.0	5,688.1	5,701.9	5,693.3	11.7	11.2	126.78	-277.4	90.1	144.4	122.2	22.23	6.494	
5,800.0	5,787.8	5,801.8	5,793.1	11.9	11.4	126.70	-282.9	92.1	146.9	124.3	22.64	6.491	
5,900.0	5,887.6	5,901.8	5,892.9	12.2	11.6	126.62	-288.5	94.1	149.5	126.4	23.04	6.488	
6,000.0	5,987.4	6,001.8	5,992.7	12.4	11.8	126.54	-294.0	96.0	152.0	128.6	23.44	6.485	
6,100.0	6,087.2	6,101.7	6,092.5	12.6	12.0	126.47	-299.5	98.0	154.5	130.7	23.84	6.482	
6,200.0	6,186.9	6,201.7	6,192.3	12.8	12.2	126.40	-305.0	100.0	157.1	132.8	24.25	6.479	
6,300.0	6,286.7	6,301.7	6,292.1	13.0	12.4	126.33	-310.5	102.0	159.6	135.0	24.65	6.476	
6,400.0	6,386.5	6,401.6	6,391.9	13.2	12.6	126.27	-316.0	104.0	162.2	137.1	25.05	6.473	
6,500.0	6,486.2	6,501.6	6,491.7	13.4	12.8	126.20	-321.6	106.0	164.7	139.2	25.45	6.471	
6,600.0	6,586.0	6,601.6	6,591.5	13.6	13.0	126.14	-327.1	107.9	167.2	141.4	25.86	6.468	
6,700.0	6,685.8	6,701.6	6,691.3	13.8	13.2	126.08	-332.6	109.9	169.8	143.5	26.26	6.466	
6,800.0	6,785.5	6,801.5	6,791.1	14.1	13.4	126.02	-338.1	111.9	172.3	145.7	26.66	6.463	
6,900.0	6,885.3	6,902.5	6,891.9	14.3	13.6	126.34	-342.5	113.9	174.8	147.7	27.03	6.466	
7,000.0	6,985.1	7,002.9	6,991.7	14.5	13.7	131.17	-332.9	115.9	176.6	149.6	27.02	6.535	
7,100.0	7,084.8	7,097.9	7,083.2	14.6	13.6	-105.33	-307.9	117.7	180.7	154.0	26.66	6.779	
7,200.0	7,182.7	7,189.4	7,166.4	14.6	13.5	-84.59	-269.9	119.4	187.6	161.4	26.20	7.160	
7,300.0	7,275.8	7,278.1	7,240.1	14.6	13.4	-75.08	-220.9	120.8	196.4	170.6	25.76	7.623	
7,400.0	7,361.2	7,364.3	7,303.7	14.5	13.3	-68.49	-162.9	122.1	205.9	180.6	25.34	8.126	
7,500.0	7,436.3	7,450.0	7,357.7	14.4	13.3	-63.53	-96.4	123.2	215.4	190.4	24.95	8.631	
7,600.0	7,498.9	7,531.3	7,399.2	14.4	13.3	-59.93	-26.5	124.0	223.9	199.2	24.65	9.082	
7,700.0	7,547.1	7,612.9	7,430.5	14.5	13.5	-57.30	48.8	124.6	230.9	206.4	24.48	9.433	
7,800.0	7,579.3	7,693.7	7,450.6	14.9	13.9	-55.56	126.9	125.0	236.0	211.4	24.56	9.608	
7,900.0	7,594.7	7,774.0	7,459.5	15.4	14.3	-54.63	206.6	125.2	238.9	213.9	24.99	9.560	
8,000.0	7,596.0	7,868.0	7,460.0	16.1	15.0	-54.49	300.7	125.2	239.3	213.2	26.07	9.180	
8,100.0	7,596.0	7,968.0	7,460.0	16.9	15.9	-54.49	400.7	125.2	239.3	211.7	27.55	8.685	
8,200.0	7,596.0	8,068.0	7,460.0	17.9	16.9	-54.49	500.7	125.2	239.3	210.1	29.25	8.182	
8,300.0	7,596.0	8,168.0	7,460.0	19.0	18.1	-54.49	600.7	125.2	239.3	208.2	31.11	7.692	
8,400.0	7,596.0	8,268.0	7,460.0	20.1	19.3	-54.49	700.7	125.2	239.3	206.2	33.12	7.225	
8,500.0	7,596.0	8,368.0	7,460.0	21.4	20.6	-54.49	800.7	125.2	239.3	204.1	35.25	6.789	
8,600.0	7,596.0	8,468.0	7,460.0	22.7	22.0	-54.49	900.7	125.2	239.3	201.8	37.47	6.386	
8,700.0	7,596.0	8,568.0	7,460.0	24.1	23.4	-54.49	1,000.7	125.2	239.3	199.5	39.78	6.016	
8,800.0	7,596.0	8,668.0	7,460.0	25.5	24.9	-54.49	1,100.7	125.2	239.3	197.1	42.15	5.677	
8,900.0	7,596.0	8,768.0	7,460.0	27.0	26.4	-54.49	1,200.7	125.2	239.3	194.7	44.59	5.367	
9,000.0	7,596.0	8,868.0	7,460.0	28.5	27.9	-54.49	1,300.7	125.2	239.3	192.2	47.07	5.084	
9,100.0	7,596.0	8,968.0	7,460.0	30.0	29.4	-54.49	1,400.7	125.2	239.3	189.7	49.59	4.825	
9,200.0	7,596.0	9,068.0	7,460.0	31.6	31.0	-54.49	1,500.7	125.2	239.3	187.1	52.15	4.589	
9,271.6	7,596.0	9,139.6	7,460.0	32.7	32.2	-54.49	1,572.3	125.2	239.3	185.3	54.00	4.431	
9,300.0	7,596.0	9,167.7	7,460.0	33.1	32.6	-54.49	1,600.4	125.2	239.3	184.6	54.73	4.372	
9,400.0	7,596.0	9,265.7	7,460.0	34.7	34.2	-54.62	1,698.3	124.2	240.1	182.7	57.40	4.183	
9,500.0	7,596.0	9,365.7	7,460.0	36.3	35.8	-54.79	1,798.3	123.0	241.1	180.9	60.15	4.008	
9,600.0	7,596.0	9,465.7	7,460.0	37.9	37.4	-54.95	1,898.3	121.8	242.1	179.1	62.92	3.847	
9,700.0	7,596.0	9,565.7	7,460.0	39.6	39.1	-55.12	1,998.3	120.6	243.1	177.3	65.72	3.698	
9,800.0	7,596.0	9,665.7	7,460.0	41.2	40.7	-55.28	2,098.3	119.4	244.0	175.5	68.55	3.560	
9,900.0	7,596.0	9,765.7	7,460.0	42.8	42.4	-55.44	2,198.3	118.2	245.0	173.6	71.40	3.432	
10,000.0	7,596.0	9,865.6	7,460.0	44.5	44.1	-55.60	2,298.3	117.0	246.0	171.8	74.27	3.313	
10,100.0	7,596.0	9,965.6	7,460.0	46.2	45.7	-55.75	2,398.2	115.8	247.0	169.9	77.16	3.201	
10,200.0	7,596.0	10,065.6	7,460.0	47.8	47.4	-55.91	2,498.2	114.6	248.0	167.9	80.07	3.097	

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 Jillson-East Rinn 3E-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4963.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4963.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3E-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - Jillson-East Rinn 3D-22H-M268 - Hz - Plan #2													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		
10,300.0	7,596.0	10,165.6	7,460.0	49.5	49.1	-56.07	2,598.2	113.4	249.0	166.0	83.00	3.000		
10,400.0	7,596.0	10,265.6	7,460.0	51.2	50.8	-56.22	2,698.2	112.2	250.0	164.1	85.94	2.909		
10,500.0	7,596.0	10,365.6	7,460.0	52.9	52.5	-56.37	2,798.2	111.0	251.0	162.1	88.90	2.823		
10,600.0	7,596.0	10,465.6	7,460.0	54.6	54.2	-56.52	2,898.2	109.8	252.0	160.1	91.88	2.743		
10,700.0	7,596.0	10,565.6	7,460.0	56.3	55.9	-56.68	2,998.2	108.6	253.0	158.2	94.87	2.667		
10,800.0	7,596.0	10,665.6	7,460.0	58.0	57.6	-56.82	3,098.1	107.4	254.0	156.2	97.87	2.596		
10,900.0	7,596.0	10,765.6	7,460.0	59.7	59.3	-56.97	3,198.1	106.2	255.0	154.2	100.88	2.528		
11,000.0	7,596.0	10,865.6	7,460.0	61.4	61.0	-57.12	3,298.1	105.0	256.0	152.1	103.91	2.464		
11,100.0	7,596.0	10,965.6	7,460.0	63.1	62.7	-57.26	3,398.1	103.8	257.1	150.1	106.95	2.404		
11,200.0	7,596.0	11,065.6	7,460.0	64.8	64.4	-57.41	3,498.1	102.6	258.1	148.1	110.00	2.346		
11,300.0	7,596.0	11,165.6	7,460.0	66.5	66.2	-57.55	3,598.1	101.4	259.1	146.0	113.07	2.291		
11,400.0	7,596.0	11,265.5	7,460.0	68.2	67.9	-57.69	3,698.1	100.2	260.1	144.0	116.14	2.240		
11,500.0	7,596.0	11,365.5	7,460.0	69.9	69.6	-57.84	3,798.0	99.0	261.1	141.9	119.22	2.190		
11,600.0	7,596.0	11,465.5	7,460.0	71.6	71.3	-57.98	3,898.0	97.8	262.1	139.8	122.31	2.143		
11,700.0	7,596.0	11,565.5	7,460.0	73.3	73.0	-58.12	3,998.0	96.6	263.2	137.7	125.42	2.098		
11,800.0	7,596.0	11,665.5	7,460.0	75.1	74.8	-58.25	4,098.0	95.4	264.2	135.7	128.53	2.055		
11,900.0	7,596.0	11,765.5	7,460.0	76.8	76.5	-58.39	4,198.0	94.1	265.2	133.6	131.65	2.015		
12,000.0	7,596.0	11,865.5	7,460.0	78.5	78.2	-58.53	4,298.0	92.9	266.2	131.5	134.78	1.975		
12,100.0	7,596.0	11,965.5	7,460.0	80.2	79.9	-58.66	4,398.0	91.7	267.3	129.4	137.92	1.938		
12,200.0	7,596.0	12,065.5	7,460.0	82.0	81.7	-58.79	4,497.9	90.5	268.3	127.2	141.06	1.902		
12,300.0	7,596.0	12,165.5	7,460.0	83.7	83.4	-58.93	4,597.9	89.3	269.3	125.1	144.21	1.868		
12,400.0	7,596.0	12,265.5	7,460.0	85.4	85.1	-59.06	4,697.9	88.1	270.4	123.0	147.38	1.834		
12,500.0	7,596.0	12,365.5	7,460.0	87.1	86.9	-59.19	4,797.9	86.9	271.4	120.8	150.55	1.803		
12,600.0	7,596.0	12,465.5	7,460.0	88.9	88.6	-59.32	4,897.9	85.7	272.4	118.7	153.72	1.772		
12,700.0	7,596.0	12,565.5	7,460.0	90.6	90.3	-59.45	4,997.9	84.5	273.5	116.6	156.91	1.743		
12,800.0	7,596.0	12,665.4	7,460.0	92.3	92.1	-59.58	5,097.9	83.3	274.5	114.4	160.10	1.715		
12,900.0	7,596.0	12,765.4	7,460.0	94.1	93.8	-59.70	5,197.8	82.1	275.5	112.2	163.29	1.687		
13,000.0	7,596.0	12,865.4	7,460.0	95.8	95.5	-59.83	5,297.8	80.9	276.6	110.1	166.50	1.661		
13,100.0	7,596.0	12,965.4	7,460.0	97.5	97.3	-59.95	5,397.8	79.7	277.6	107.9	169.71	1.636		
13,200.0	7,596.0	13,065.4	7,460.0	99.3	99.0	-60.08	5,497.8	78.5	278.7	105.7	172.92	1.611		
13,300.0	7,596.0	13,165.4	7,460.0	101.0	100.8	-60.20	5,597.8	77.3	279.7	103.6	176.15	1.588		
13,400.0	7,596.0	13,265.4	7,460.0	102.7	102.5	-60.32	5,697.8	76.1	280.8	101.4	179.38	1.565		
13,500.0	7,596.0	13,365.4	7,460.0	104.5	104.2	-60.44	5,797.7	74.9	281.8	99.2	182.61	1.543		
13,600.0	7,596.0	13,465.4	7,460.0	106.2	106.0	-60.56	5,897.7	73.7	282.8	97.0	185.85	1.522		
13,700.0	7,596.0	13,565.4	7,460.0	108.0	107.7	-60.50	5,997.7	72.5	282.3	93.9	188.42	1.498 Level 3		
13,800.0	7,596.0	13,665.3	7,460.0	109.7	109.5	-60.21	6,097.7	71.3	279.9	89.0	190.87	1.466 Level 3		
13,900.0	7,596.0	13,765.3	7,460.0	111.4	111.2	-59.92	6,197.6	70.1	277.4	84.1	193.35	1.435 Level 3		
14,000.0	7,596.0	13,865.3	7,460.0	113.2	112.9	-59.62	6,297.6	68.9	274.9	79.1	195.81	1.404 Level 3		
14,100.0	7,596.0	13,965.2	7,460.0	114.9	114.7	-59.32	6,397.5	67.7	272.5	74.2	198.23	1.375 Level 3		
14,200.0	7,596.0	14,065.2	7,460.0	116.6	116.4	-59.01	6,497.5	66.5	270.0	69.4	200.62	1.346 Level 3		
14,300.0	7,596.0	14,165.1	7,460.0	118.4	118.2	-58.69	6,597.4	65.3	267.6	64.6	202.97	1.318 Level 3		
14,400.0	7,596.0	14,265.1	7,460.0	120.1	119.9	-58.37	6,697.4	64.1	265.1	59.9	205.28	1.292 Level 3		
14,500.0	7,596.0	14,365.1	7,460.0	121.8	121.6	-58.04	6,797.3	62.9	262.7	55.2	207.56	1.266 Level 3		
14,600.0	7,596.0	14,465.0	7,460.0	123.6	123.4	-57.71	6,897.3	61.7	260.3	50.5	209.79	1.241 Level 2		
14,700.0	7,596.0	14,565.0	7,460.0	125.3	125.1	-57.37	6,997.2	60.4	257.9	45.9	211.99	1.216 Level 2		
14,800.0	7,596.0	14,664.9	7,460.0	127.1	126.9	-57.03	7,097.2	59.2	255.5	41.3	214.14	1.193 Level 2		
14,900.0	7,596.0	14,764.9	7,460.0	128.8	128.6	-56.67	7,197.1	58.0	253.1	36.8	216.24	1.170 Level 2		
15,000.0	7,596.0	14,864.8	7,460.0	130.5	130.4	-56.32	7,297.1	56.8	250.7	32.4	218.30	1.148 Level 2		
15,100.0	7,596.0	14,964.8	7,460.0	132.3	132.1	-55.95	7,397.0	55.6	248.3	28.0	220.32	1.127 Level 2		
15,200.0	7,596.0	15,064.8	7,460.0	134.0	133.9	-55.58	7,497.0	54.4	246.0	23.7	222.28	1.107 Level 2		
15,300.0	7,596.0	15,164.7	7,460.0	135.8	135.6	-55.20	7,597.0	53.2	243.6	19.4	224.19	1.087 Level 2		
15,306.1	7,596.0	15,170.8	7,460.0	135.9	135.7	-55.17	7,603.0	53.2	243.5	19.2	224.30	1.085 Level 2, 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 Jillson-East Rinn 3E-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4963.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4963.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3E-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3E-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4963.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4963.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3E-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - Jillson-East Rinn 3F-22H-M268 - 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	12.0	12.0	0.0	0.0	90.00	0.0	10.1	10.1					
100.0	100.0	112.0	112.0	0.2	0.2	90.00	0.0	10.1	10.1	9.8	0.30	33.153		
200.0	200.0	212.0	212.0	0.3	0.3	90.00	0.0	10.1	10.1	9.4	0.65	15.424		
262.1	262.1	274.1	274.1	0.4	0.4	90.00	0.0	10.1	10.1	9.2	0.87	11.578	CC	
300.0	300.0	312.0	312.0	0.5	0.5	90.05	0.0	10.1	10.1	9.1	1.00	10.059		
400.0	400.0	411.8	411.8	0.7	0.7	-48.39	-0.7	10.9	10.3	9.0	1.35	7.643	ES	
500.0	500.0	511.7	511.7	0.9	0.9	-49.20	-2.5	13.1	10.8	9.1	1.70	6.313		
600.0	599.9	611.6	611.4	1.0	1.0	-50.87	-5.4	16.6	11.4	9.3	2.07	5.510		
700.0	699.7	711.4	711.1	1.2	1.2	-53.17	-9.5	21.4	12.2	9.8	2.44	5.003		
800.0	799.4	811.2	810.6	1.4	1.5	-52.36	-14.7	27.5	13.9	11.1	2.82	4.913	SF	
900.0	899.2	911.2	910.1	1.6	1.7	-49.56	-20.4	34.4	16.2	13.0	3.20	5.059		
1,000.0	999.0	1,011.2	1,009.7	1.8	1.9	-47.46	-26.1	41.2	18.6	15.0	3.58	5.183		
1,100.0	1,098.7	1,111.1	1,109.3	2.1	2.1	-45.84	-31.9	48.1	20.9	17.0	3.96	5.289		
1,200.0	1,198.5	1,211.1	1,208.8	2.3	2.3	-44.55	-37.6	54.9	23.3	19.0	4.33	5.381		
1,300.0	1,298.3	1,311.1	1,308.4	2.5	2.6	-43.50	-43.4	61.7	25.7	21.0	4.71	5.461		
1,400.0	1,398.1	1,411.0	1,408.0	2.7	2.8	-42.62	-49.1	68.6	28.1	23.0	5.09	5.531		
1,500.0	1,497.8	1,511.0	1,507.5	2.9	3.0	-41.89	-54.9	75.4	30.5	25.1	5.46	5.592		
1,600.0	1,597.6	1,611.0	1,607.1	3.1	3.3	-41.26	-60.6	82.3	33.0	27.1	5.84	5.647		
1,700.0	1,697.4	1,711.0	1,706.7	3.3	3.5	-40.72	-66.4	89.1	35.4	29.2	6.21	5.696		
1,800.0	1,797.1	1,810.9	1,806.2	3.5	3.7	-40.25	-72.1	96.0	37.8	31.2	6.58	5.739		
1,900.0	1,896.9	1,910.9	1,905.8	3.7	4.0	-39.84	-77.9	102.8	40.2	33.3	6.96	5.779		
2,000.0	1,996.7	2,010.9	2,005.4	3.9	4.2	-39.47	-83.6	109.6	42.6	35.3	7.33	5.815		
2,100.0	2,096.4	2,110.8	2,105.0	4.1	4.4	-39.14	-89.3	116.5	45.1	37.4	7.71	5.848		
2,200.0	2,196.2	2,210.8	2,204.5	4.3	4.7	-38.85	-95.1	123.3	47.5	39.4	8.08	5.877		
2,300.0	2,296.0	2,310.8	2,304.1	4.6	4.9	-38.58	-100.8	130.2	49.9	41.5	8.45	5.905		
2,400.0	2,395.7	2,410.7	2,403.7	4.8	5.1	-38.34	-106.6	137.0	52.4	43.5	8.83	5.930		
2,500.0	2,495.5	2,510.7	2,503.2	5.0	5.4	-38.12	-112.3	143.9	54.8	45.6	9.20	5.954		
2,600.0	2,595.3	2,610.7	2,602.8	5.2	5.6	-37.92	-118.1	150.7	57.2	47.6	9.58	5.975		
2,700.0	2,695.0	2,710.7	2,702.4	5.4	5.8	-37.73	-123.8	157.6	59.7	49.7	9.95	5.995		
2,800.0	2,794.8	2,810.6	2,801.9	5.6	6.1	-37.56	-129.6	164.4	62.1	51.8	10.32	6.014		
2,900.0	2,894.6	2,910.6	2,901.5	5.8	6.3	-37.41	-135.3	171.2	64.5	53.8	10.70	6.032		
3,000.0	2,994.3	3,010.6	3,001.1	6.0	6.5	-37.26	-141.1	178.1	67.0	55.9	11.07	6.048		
3,100.0	3,094.1	3,110.5	3,100.7	6.2	6.8	-37.13	-146.8	184.9	69.4	57.9	11.44	6.064		
3,200.0	3,193.9	3,210.5	3,200.2	6.5	7.0	-37.00	-152.5	191.8	71.8	60.0	11.82	6.078		
3,300.0	3,293.6	3,310.5	3,299.8	6.7	7.2	-36.88	-158.3	198.6	74.3	62.1	12.19	6.092		
3,400.0	3,393.4	3,410.5	3,399.4	6.9	7.5	-36.77	-164.0	205.5	76.7	64.1	12.56	6.104		
3,500.0	3,493.2	3,510.4	3,498.9	7.1	7.7	-36.67	-169.8	212.3	79.1	66.2	12.94	6.117		
3,600.0	3,593.0	3,610.4	3,598.5	7.3	7.9	-36.57	-175.5	219.1	81.6	68.3	13.31	6.128		
3,700.0	3,692.7	3,710.4	3,698.1	7.5	8.2	-36.48	-181.3	226.0	84.0	70.3	13.68	6.139		
3,800.0	3,792.5	3,810.3	3,797.7	7.7	8.4	-36.39	-187.0	232.8	86.4	72.4	14.06	6.149		
3,900.0	3,892.3	3,910.3	3,897.2	7.9	8.6	-36.31	-192.8	239.7	88.9	74.4	14.43	6.159		
4,000.0	3,992.0	4,010.3	3,996.8	8.1	8.9	-36.23	-198.5	246.5	91.3	76.5	14.80	6.168		
4,100.0	4,091.8	4,110.2	4,096.4	8.4	9.1	-36.16	-204.3	253.4	93.7	78.6	15.18	6.177		
4,200.0	4,191.6	4,210.2	4,195.9	8.6	9.3	-36.09	-210.0	260.2	96.2	80.6	15.55	6.186		
4,300.0	4,291.3	4,310.2	4,295.5	8.8	9.6	-36.02	-215.7	267.0	98.6	82.7	15.92	6.194		
4,400.0	4,391.1	4,410.2	4,395.1	9.0	9.8	-35.96	-221.5	273.9	101.1	84.8	16.30	6.202		
4,500.0	4,490.9	4,510.1	4,494.6	9.2	10.0	-35.90	-227.2	280.7	103.5	86.8	16.67	6.209		
4,600.0	4,590.6	4,610.1	4,594.2	9.4	10.3	-35.84	-233.0	287.6	105.9	88.9	17.04	6.216		
4,700.0	4,690.4	4,710.1	4,693.8	9.6	10.5	-35.78	-238.7	294.4	108.4	91.0	17.42	6.223		
4,800.0	4,790.2	4,810.0	4,793.4	9.8	10.7	-35.73	-244.5	301.3	110.8	93.0	17.79	6.229		
4,900.0	4,889.9	4,910.0	4,892.9	10.0	11.0	-35.68	-250.2	308.1	113.2	95.1	18.16	6.236		
5,000.0	4,989.7	5,010.0	4,992.5	10.3	11.2	-35.63	-256.0	315.0	115.7	97.2	18.53	6.242		

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 Jillson-East Rinn 3E-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4963.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4963.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3E-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - Jillson-East Rinn 3F-22H-M268 - 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		
5,100.0	5,089.5	5,109.9	5,092.1	10.5	11.4	-35.59	-261.7	321.8	118.1	99.2	18.91	6.247		
5,200.0	5,189.2	5,209.9	5,191.6	10.7	11.7	-35.54	-267.5	328.6	120.6	101.3	19.28	6.253		
5,300.0	5,289.0	5,309.9	5,291.2	10.9	11.9	-35.50	-273.2	335.5	123.0	103.3	19.65	6.258		
5,400.0	5,388.8	5,409.9	5,390.8	11.1	12.1	-35.46	-278.9	342.3	125.4	105.4	20.03	6.264		
5,500.0	5,488.5	5,509.8	5,490.3	11.3	12.4	-35.42	-284.7	349.2	127.9	107.5	20.40	6.269		
5,600.0	5,588.3	5,609.8	5,589.9	11.5	12.6	-35.38	-290.4	356.0	130.3	109.5	20.77	6.273		
5,700.0	5,688.1	5,709.8	5,689.5	11.7	12.8	-35.35	-296.2	362.9	132.8	111.6	21.15	6.278		
5,800.0	5,787.8	5,809.7	5,789.1	11.9	13.1	-35.31	-301.9	369.7	135.2	113.7	21.52	6.282		
5,900.0	5,887.6	5,909.7	5,888.6	12.2	13.3	-35.28	-307.7	376.5	137.6	115.7	21.89	6.287		
6,000.0	5,987.4	6,009.7	5,988.2	12.4	13.5	-35.24	-313.4	383.4	140.1	117.8	22.27	6.291		
6,100.0	6,087.2	6,109.6	6,087.8	12.6	13.8	-35.21	-319.2	390.2	142.5	119.9	22.64	6.295		
6,200.0	6,186.9	6,209.6	6,187.3	12.8	14.0	-35.18	-324.9	397.1	144.9	121.9	23.01	6.299		
6,300.0	6,286.7	6,309.6	6,286.9	13.0	14.2	-35.15	-330.7	403.9	147.4	124.0	23.38	6.303		
6,400.0	6,386.5	6,409.6	6,386.5	13.2	14.5	-35.12	-336.4	410.8	149.8	126.1	23.76	6.306		
6,500.0	6,486.2	6,514.6	6,491.1	13.4	14.6	-38.06	-334.4	418.0	150.7	126.4	24.32	6.195		
6,568.3	6,554.4	6,583.7	6,559.0	13.6	14.7	-43.87	-322.7	422.6	150.3	125.3	24.98	6.014		
6,600.0	6,586.0	6,614.3	6,588.5	13.6	14.7	-47.42	-314.9	424.6	150.5	125.1	25.35	5.937		
6,700.0	6,685.8	6,703.3	6,671.5	13.8	14.6	-60.66	-283.5	430.4	157.3	130.7	26.58	5.917		
6,800.0	6,785.5	6,779.8	6,738.2	14.1	14.6	-73.95	-246.4	434.9	179.4	151.9	27.56	6.511		
6,900.0	6,885.3	6,843.9	6,789.9	14.3	14.5	-84.72	-208.7	438.5	219.7	191.5	28.15	7.803		
7,000.0	6,985.1	6,900.0	6,831.4	14.5	14.5	-92.98	-171.2	441.3	274.9	246.4	28.49	9.652		
7,100.0	7,084.8	6,950.0	6,865.2	14.6	14.4	12.80	-134.4	443.7	337.0	308.4	28.55	11.801		
7,200.0	7,182.7	7,000.0	6,895.7	14.6	14.4	19.42	-94.9	445.8	396.2	368.3	27.93	14.187		
7,300.0	7,275.8	7,050.0	6,922.6	14.6	14.5	18.05	-52.8	447.6	450.5	423.7	26.72	16.857		
7,400.0	7,361.2	7,100.0	6,945.8	14.5	14.6	16.28	-8.5	449.2	498.4	473.3	25.06	19.891		
7,500.0	7,436.3	7,150.0	6,965.0	14.4	14.7	14.82	37.6	450.5	539.2	516.1	23.09	23.355		
7,600.0	7,498.9	7,200.0	6,980.1	14.4	14.8	13.74	85.2	451.6	572.3	551.3	21.02	27.224		
7,700.0	7,547.1	7,236.9	6,988.6	14.5	15.0	13.07	121.2	452.1	597.0	577.9	19.14	31.198		
7,800.0	7,579.3	7,285.8	6,996.2	14.9	15.2	12.58	169.5	452.7	613.6	595.8	17.81	34.451		
7,900.0	7,594.7	7,334.8	6,999.8	15.4	15.5	12.36	218.3	452.9	621.6	604.2	17.40	35.714		
8,000.0	7,596.0	7,417.2	7,000.0	16.1	16.1	12.33	300.7	452.9	622.4	604.4	17.94	34.698		
8,100.0	7,596.0	7,517.2	7,000.0	16.9	16.9	12.33	400.7	452.9	622.4	603.8	18.58	33.499		
8,200.0	7,596.0	7,617.2	7,000.0	17.9	17.9	12.33	500.7	452.9	622.4	603.1	19.24	32.355		
8,300.0	7,596.0	7,717.2	7,000.0	19.0	18.9	12.33	600.7	452.9	622.4	602.5	19.91	31.265		
8,400.0	7,596.0	7,817.2	7,000.0	20.1	20.1	12.33	700.7	452.9	622.4	601.8	20.59	30.228		
8,500.0	7,596.0	7,917.2	7,000.0	21.4	21.4	12.33	800.7	452.9	622.4	601.1	21.28	29.241		
8,600.0	7,596.0	8,017.2	7,000.0	22.7	22.7	12.33	900.7	452.9	622.4	600.4	21.99	28.304		
8,700.0	7,596.0	8,117.2	7,000.0	24.1	24.1	12.33	1,000.7	452.9	622.4	599.7	22.70	27.414		
8,800.0	7,596.0	8,217.2	7,000.0	25.5	25.5	12.33	1,100.7	452.9	622.4	598.9	23.42	26.569		
8,900.0	7,596.0	8,317.2	7,000.0	27.0	26.9	12.33	1,200.7	452.9	622.4	598.2	24.15	25.765		
9,000.0	7,596.0	8,417.2	7,000.0	28.5	28.4	12.33	1,300.7	452.9	622.4	597.5	24.89	25.003		
9,100.0	7,596.0	8,517.2	7,000.0	30.0	30.0	12.33	1,400.7	452.9	622.4	596.7	25.64	24.277		
9,200.0	7,596.0	8,617.2	7,000.0	31.6	31.5	12.33	1,500.7	452.9	622.4	596.0	26.38	23.588		
9,300.0	7,596.0	8,717.2	7,000.0	33.1	33.1	12.33	1,600.7	452.9	622.4	595.2	27.14	22.932		
9,400.0	7,596.0	8,817.2	7,000.0	34.7	34.7	12.33	1,700.7	452.9	622.4	594.5	27.90	22.308		
9,500.0	7,596.0	8,917.2	7,000.0	36.3	36.3	12.33	1,800.7	452.9	622.4	593.7	28.66	21.713		
9,600.0	7,596.0	9,017.2	7,000.0	37.9	37.9	12.33	1,900.7	452.9	622.4	592.9	29.43	21.146		
9,700.0	7,596.0	9,117.2	7,000.0	39.6	39.5	12.33	2,000.7	452.9	622.4	592.2	30.20	20.606		
9,800.0	7,596.0	9,217.2	7,000.0	41.2	41.1	12.33	2,100.7	452.9	622.4	591.4	30.98	20.090		
9,900.0	7,596.0	9,317.2	7,000.0	42.8	42.8	12.33	2,200.7	452.9	622.4	590.6	31.76	19.597		
10,000.0	7,596.0	9,417.2	7,000.0	44.5	44.4	12.33	2,300.7	452.9	622.4	589.8	32.54	19.126		
10,100.0	7,596.0	9,517.2	7,000.0	46.2	46.1	12.33	2,400.7	452.9	622.4	589.0	33.33	18.675		

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 Jillson-East Rinn 3E-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4963.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4963.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3E-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - Jillson-East Rinn 3F-22H-M268 - 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					Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
10,200.0	7,596.0	9,617.2	7,000.0	47.8	47.8	12.33	2,500.7	452.9	622.4	588.2	34.11	18.244		
10,300.0	7,596.0	9,717.2	7,000.0	49.5	49.4	12.33	2,600.7	452.9	622.4	587.5	34.90	17.831		
10,400.0	7,596.0	9,817.2	7,000.0	51.2	51.1	12.33	2,700.7	452.9	622.4	586.7	35.70	17.435		
10,500.0	7,596.0	9,917.2	7,000.0	52.9	52.8	12.33	2,800.7	452.9	622.4	585.9	36.49	17.056		
10,600.0	7,596.0	10,017.2	7,000.0	54.6	54.5	12.33	2,900.7	452.9	622.4	585.1	37.29	16.691		
10,700.0	7,596.0	10,117.2	7,000.0	56.3	56.2	12.33	3,000.7	452.9	622.4	584.3	38.08	16.341		
10,800.0	7,596.0	10,217.2	7,000.0	58.0	57.9	12.33	3,100.7	452.9	622.4	583.5	38.88	16.005		
10,900.0	7,596.0	10,317.2	7,000.0	59.7	59.6	12.33	3,200.7	452.9	622.4	582.7	39.69	15.682		
11,000.0	7,596.0	10,417.2	7,000.0	61.4	61.3	12.33	3,300.7	452.9	622.4	581.9	40.49	15.371		
11,100.0	7,596.0	10,517.2	7,000.0	63.1	63.0	12.33	3,400.7	452.9	622.4	581.1	41.30	15.071		
11,200.0	7,596.0	10,617.2	7,000.0	64.8	64.7	12.33	3,500.7	452.9	622.4	580.3	42.10	14.782		
11,300.0	7,596.0	10,717.2	7,000.0	66.5	66.4	12.33	3,600.7	452.9	622.4	579.5	42.91	14.504		
11,400.0	7,596.0	10,817.2	7,000.0	68.2	68.1	12.33	3,700.7	452.9	622.4	578.6	43.72	14.236		
11,500.0	7,596.0	10,917.2	7,000.0	69.9	69.8	12.33	3,800.7	452.9	622.4	577.8	44.53	13.977		
11,600.0	7,596.0	11,017.2	7,000.0	71.6	71.5	12.33	3,900.7	452.9	622.4	577.0	45.34	13.727		
11,700.0	7,596.0	11,117.2	7,000.0	73.3	73.3	12.33	4,000.7	452.9	622.4	576.2	46.15	13.485		
11,800.0	7,596.0	11,217.2	7,000.0	75.1	75.0	12.33	4,100.7	452.9	622.4	575.4	46.97	13.252		
11,900.0	7,596.0	11,317.2	7,000.0	76.8	76.7	12.33	4,200.7	452.9	622.4	574.6	47.78	13.026		
12,000.0	7,596.0	11,417.2	7,000.0	78.5	78.4	12.33	4,300.7	452.9	622.4	573.8	48.59	12.807		
12,100.0	7,596.0	11,517.2	7,000.0	80.2	80.1	12.33	4,400.7	452.9	622.4	573.0	49.41	12.596		
12,200.0	7,596.0	11,617.2	7,000.0	82.0	81.9	12.33	4,500.7	452.9	622.4	572.1	50.23	12.391		
12,300.0	7,596.0	11,717.2	7,000.0	83.7	83.6	12.33	4,600.7	452.9	622.4	571.3	51.04	12.192		
12,400.0	7,596.0	11,817.2	7,000.0	85.4	85.3	12.33	4,700.7	452.9	622.4	570.5	51.86	12.000		
12,500.0	7,596.0	11,917.2	7,000.0	87.1	87.1	12.33	4,800.7	452.9	622.4	569.7	52.68	11.814		
12,600.0	7,596.0	12,017.2	7,000.0	88.9	88.8	12.33	4,900.7	452.9	622.4	568.9	53.50	11.633		
12,700.0	7,596.0	12,117.2	7,000.0	90.6	90.5	12.33	5,000.7	452.9	622.4	568.0	54.32	11.457		
12,800.0	7,596.0	12,217.2	7,000.0	92.3	92.2	12.33	5,100.7	452.9	622.4	567.2	55.14	11.286		
12,900.0	7,596.0	12,317.2	7,000.0	94.1	94.0	12.33	5,200.7	452.9	622.4	566.4	55.96	11.121		
13,000.0	7,596.0	12,417.2	7,000.0	95.8	95.7	12.33	5,300.7	452.9	622.4	565.6	56.79	10.960		
13,100.0	7,596.0	12,517.2	7,000.0	97.5	97.4	12.33	5,400.7	452.9	622.4	564.8	57.61	10.803		
13,200.0	7,596.0	12,617.2	7,000.0	99.3	99.2	12.33	5,500.7	452.9	622.4	563.9	58.43	10.651		
13,300.0	7,596.0	12,717.2	7,000.0	101.0	100.9	12.33	5,600.7	452.9	622.4	563.1	59.26	10.503		
13,400.0	7,596.0	12,817.2	7,000.0	102.7	102.7	12.33	5,700.7	452.9	622.4	562.3	60.08	10.359		
13,500.0	7,596.0	12,917.2	7,000.0	104.5	104.4	12.33	5,800.7	452.9	622.4	561.5	60.90	10.219		
13,566.2	7,596.0	12,983.5	7,000.0	105.6	105.5	12.33	5,866.9	452.9	622.4	560.9	61.45	10.127		
13,600.0	7,596.0	13,017.2	7,000.0	106.2	106.1	12.33	5,900.7	452.9	622.4	560.6	61.73	10.082		
13,700.0	7,596.0	13,117.2	7,000.0	108.0	107.9	12.49	6,000.7	452.9	622.7	559.8	62.90	9.900		
13,800.0	7,596.0	13,217.1	7,000.0	109.7	109.6	12.84	6,100.6	452.9	623.6	558.9	64.68	9.642		
13,900.0	7,596.0	13,317.0	7,000.0	111.4	111.3	13.21	6,200.5	452.9	624.5	558.0	66.53	9.388		
14,000.0	7,596.0	13,417.0	7,000.0	113.2	113.1	13.57	6,300.4	452.9	625.5	557.1	68.42	9.141		
14,100.0	7,596.0	13,516.9	7,000.0	114.9	114.8	13.93	6,400.4	452.9	626.5	556.1	70.36	8.903		
14,200.0	7,596.0	13,616.8	7,000.0	116.6	116.6	14.29	6,500.3	452.9	627.4	555.1	72.35	8.673		
14,300.0	7,596.0	13,716.7	7,000.0	118.4	118.3	14.65	6,600.2	452.9	628.5	554.1	74.37	8.450		
14,400.0	7,596.0	13,816.6	7,000.0	120.1	120.0	15.01	6,700.1	452.9	629.5	553.1	76.44	8.235		
14,500.0	7,596.0	13,916.5	7,000.0	121.8	121.8	15.36	6,800.0	452.9	630.6	552.0	78.55	8.027		
14,600.0	7,596.0	14,016.5	7,000.0	123.6	123.5	15.72	6,899.9	452.9	631.7	550.9	80.71	7.826		
14,700.0	7,596.0	14,116.4	7,000.0	125.3	125.3	16.07	6,999.9	452.9	632.8	549.9	82.90	7.633		
14,800.0	7,596.0	14,216.3	7,000.0	127.1	127.0	16.42	7,099.8	452.9	633.9	548.8	85.14	7.446		
14,900.0	7,596.0	14,316.2	7,000.0	128.8	128.7	16.77	7,199.7	452.9	635.1	547.7	87.41	7.265		
15,000.0	7,596.0	14,416.1	7,000.0	130.5	130.5	17.12	7,299.6	452.9	636.2	546.5	89.72	7.091		
15,100.0	7,596.0	14,516.0	7,000.0	132.3	132.2	17.47	7,399.5	452.9	637.5	545.4	92.07	6.923		
15,200.0	7,596.0	14,616.0	7,000.0	134.0	134.0	17.82	7,499.4	452.9	638.7	544.2	94.46	6.761		

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 Jillson-East Rinn 3E-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4963.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4963.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3E-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

Offset Design												S22-T2N-R68W (Jillson-East Rinn) - Jillson-East Rinn 3F-22H-M268 - 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		Vertical		Measured		Vertical		Reference		Offset		Highside		Offset Wellbore Centre		Between		Between						Total		Separation	
Depth		Depth		Depth		Depth		(ft)		(ft)		Toolface		+N/-S		+E/-W		Centres						Ellipses		Uncertainty	
(ft)		(ft)		(ft)		(ft)						(°)		(ft)		(ft)		(ft)		(ft)		Axis					
15,300.0		7,596.0		14,715.9		7,000.0		135.8		135.7		18.17		7,599.4		452.9		639.9		543.1		96.89		6.605			
15,306.1		7,596.0		14,721.6		7,000.0		135.9		135.8		18.18		7,605.1		452.9		640.0		543.0		97.03		6.596			

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3E-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4963.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4963.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3E-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - Jillson-East Rinn 3G-22H-N268 - Hz - Plan #2													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)				
4,400.0	4,391.1	4,577.9	4,561.6	9.0	9.1	-48.71	-206.6	1,154.4	987.9	971.4	16.53	59.766		
4,500.0	4,490.9	4,676.3	4,658.9	9.2	9.4	-48.68	-212.1	1,141.1	970.0	953.1	16.91	57.353		
4,600.0	4,590.6	4,774.6	4,756.2	9.4	9.6	-48.65	-217.5	1,127.8	952.0	934.7	17.29	55.044		
4,700.0	4,690.4	4,873.0	4,853.5	9.6	9.9	-48.62	-223.0	1,114.5	934.0	916.3	17.68	52.835		
4,800.0	4,790.2	4,971.4	4,950.8	9.8	10.2	-48.59	-228.4	1,101.2	916.1	898.0	18.06	50.718		
4,900.0	4,889.9	5,069.7	5,048.1	10.0	10.5	-48.56	-233.9	1,087.9	898.1	879.6	18.45	48.688		
5,000.0	4,989.7	5,168.1	5,145.5	10.3	10.7	-48.52	-239.3	1,074.6	880.1	861.3	18.83	46.740		
5,100.0	5,089.5	5,266.5	5,242.8	10.5	11.0	-48.49	-244.8	1,061.3	862.1	842.9	19.21	44.870		
5,200.0	5,189.2	5,364.8	5,340.1	10.7	11.3	-48.45	-250.2	1,047.9	844.2	824.6	19.60	43.071		
5,300.0	5,289.0	5,463.2	5,437.4	10.9	11.6	-48.41	-255.7	1,034.6	826.2	806.2	19.98	41.342		
5,400.0	5,388.8	5,561.6	5,534.7	11.1	11.9	-48.37	-261.1	1,021.3	808.2	787.9	20.37	39.677		
5,500.0	5,488.5	5,660.0	5,632.0	11.3	12.2	-48.33	-266.6	1,008.0	790.3	769.5	20.76	38.074		
5,600.0	5,588.3	5,758.3	5,729.3	11.5	12.5	-48.28	-272.0	994.7	772.3	751.2	21.14	36.529		
5,700.0	5,688.1	5,856.7	5,826.7	11.7	12.8	-48.24	-277.5	981.4	754.3	732.8	21.53	35.038		
5,800.0	5,787.8	5,955.1	5,924.0	11.9	13.0	-48.19	-282.9	968.1	736.4	714.5	21.92	33.600		
5,900.0	5,887.6	6,053.4	6,021.3	12.2	13.3	-48.14	-288.4	954.8	718.4	696.1	22.30	32.211		
6,000.0	5,987.4	6,151.8	6,118.6	12.4	13.6	-48.08	-293.9	941.5	700.4	677.8	22.69	30.870		
6,100.0	6,087.2	6,250.2	6,215.9	12.6	13.9	-48.03	-299.3	928.2	682.5	659.4	23.08	29.572		
6,200.0	6,186.9	6,348.6	6,313.2	12.8	14.2	-47.97	-304.8	914.9	664.5	641.0	23.47	28.318		
6,300.0	6,286.7	6,446.9	6,410.5	13.0	14.5	-47.90	-310.2	901.5	646.6	622.7	23.85	27.104		
6,400.0	6,386.5	6,545.3	6,507.8	13.2	14.8	-47.84	-315.7	888.2	628.6	604.3	24.24	25.928		
6,500.0	6,486.2	6,643.7	6,605.2	13.4	15.1	-47.77	-321.1	874.9	610.6	586.0	24.63	24.790		
6,600.0	6,586.0	6,742.0	6,702.5	13.6	15.4	-47.69	-326.6	861.6	592.7	567.6	25.02	23.686		
6,700.0	6,685.8	6,840.4	6,799.8	13.8	15.7	-47.61	-332.0	848.3	574.7	549.3	25.41	22.616		
6,800.0	6,785.5	6,938.8	6,897.2	14.1	16.0	-47.53	-337.5	835.0	556.8	530.9	25.80	21.578		
6,900.0	6,885.3	7,038.9	6,996.1	14.3	16.2	-48.42	-333.9	821.5	538.6	512.5	26.11	20.632		
7,000.0	6,985.1	7,133.1	7,087.4	14.5	16.4	-51.07	-314.7	809.0	520.9	494.6	26.33	19.787		
7,100.0	7,084.8	7,220.4	7,168.2	14.6	16.5	62.66	-283.6	797.9	505.3	478.8	26.46	19.096		
7,200.0	7,182.7	7,304.2	7,240.4	14.6	16.6	74.44	-242.6	788.0	491.9	465.4	26.48	18.574		
7,300.0	7,275.8	7,385.2	7,303.9	14.6	16.7	75.98	-193.1	779.4	480.9	454.4	26.46	18.177		
7,400.0	7,361.2	7,464.2	7,358.6	14.5	16.9	75.71	-136.7	771.9	472.2	445.8	26.42	17.870		
7,500.0	7,436.3	7,541.7	7,404.2	14.4	17.1	74.92	-74.5	765.6	465.6	439.1	26.41	17.625		
7,600.0	7,498.9	7,618.0	7,440.7	14.4	17.3	74.02	-7.7	760.6	460.8	434.3	26.53	17.370		
7,700.0	7,547.1	7,693.5	7,467.8	14.5	17.7	73.21	62.6	756.9	457.6	430.8	26.82	17.060		
7,800.0	7,579.3	7,768.4	7,485.4	14.9	18.1	72.60	135.3	754.5	455.7	428.4	27.39	16.639		
7,900.0	7,594.7	7,843.0	7,493.4	15.4	18.6	72.27	209.4	753.4	455.1	426.8	28.27	16.095		
7,928.4	7,596.3	7,864.1	7,494.0	15.5	18.7	72.18	230.6	753.3	455.2	426.6	28.62	15.902		
8,000.0	7,596.0	7,934.3	7,494.0	16.1	19.3	72.22	300.7	753.3	455.1	425.3	29.74	15.301		
8,100.0	7,596.0	8,034.3	7,494.0	16.9	20.1	72.21	400.7	753.3	455.1	423.5	31.61	14.397		
8,200.0	7,596.0	8,134.3	7,494.0	17.9	21.1	72.21	500.7	753.3	455.1	421.4	33.70	13.502		
8,300.0	7,596.0	8,234.3	7,494.0	19.0	22.2	72.21	600.7	753.3	455.1	419.1	35.99	12.645		
8,400.0	7,596.0	8,334.3	7,494.0	20.1	23.4	72.21	700.7	753.3	455.1	416.6	38.43	11.842		
8,500.0	7,596.0	8,434.3	7,494.0	21.4	24.6	72.21	800.7	753.3	455.0	414.1	40.99	11.101		
8,600.0	7,596.0	8,534.3	7,494.0	22.7	25.9	72.21	900.7	753.3	455.0	411.4	43.67	10.421		
8,700.0	7,596.0	8,634.3	7,494.0	24.1	27.2	72.21	1,000.7	753.3	455.0	408.6	46.42	9.802		
8,800.0	7,596.0	8,734.3	7,494.0	25.5	28.6	72.21	1,100.7	753.3	455.0	405.8	49.26	9.238		
8,900.0	7,596.0	8,834.3	7,494.0	27.0	30.1	72.21	1,200.7	753.3	455.0	402.9	52.15	8.725		
9,000.0	7,596.0	8,934.3	7,494.0	28.5	31.5	72.21	1,300.7	753.3	455.0	399.9	55.09	8.259		
9,100.0	7,596.0	9,034.3	7,494.0	30.0	33.0	72.21	1,400.7	753.3	455.0	396.9	58.08	7.834		
9,200.0	7,596.0	9,134.3	7,494.0	31.6	34.5	72.21	1,500.7	753.3	455.0	393.9	61.10	7.446		
9,300.0	7,596.0	9,234.3	7,494.0	33.1	36.1	72.21	1,600.7	753.3	455.0	390.8	64.16	7.092		
9,400.0	7,596.0	9,334.3	7,494.0	34.7	37.6	72.21	1,700.7	753.2	455.0	387.8	67.24	6.766		

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 Jillson-East Rinn 3E-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4963.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4963.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3E-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - Jillson-East Rinn 3G-22H-N268 - Hz - Plan #2												Offset Site Error:	0.0 ft
Survey Program: O-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	
9,500.0	7,596.0	9,434.3	7,494.0	36.3	39.2	72.21	1,800.7	753.2	455.0	384.6	70.35	6.468	
9,600.0	7,596.0	9,534.3	7,494.0	37.9	40.8	72.21	1,900.7	753.2	455.0	381.5	73.48	6.192	
9,700.0	7,596.0	9,634.3	7,494.0	39.6	42.4	72.21	2,000.7	753.2	455.0	378.4	76.62	5.938	
9,800.0	7,596.0	9,734.3	7,494.0	41.2	44.0	72.21	2,100.7	753.2	455.0	375.2	79.79	5.703	
9,900.0	7,596.0	9,834.3	7,494.0	42.8	45.6	72.21	2,200.7	753.2	455.0	372.0	82.96	5.484	
10,000.0	7,596.0	9,934.3	7,494.0	44.5	47.2	72.21	2,300.7	753.2	455.0	368.8	86.15	5.281	
10,100.0	7,596.0	10,034.3	7,494.0	46.2	48.9	72.21	2,400.7	753.2	455.0	365.6	89.35	5.092	
10,200.0	7,596.0	10,134.3	7,494.0	47.8	50.5	72.21	2,500.7	753.2	455.0	362.4	92.56	4.915	
10,300.0	7,596.0	10,234.3	7,494.0	49.5	52.2	72.21	2,600.7	753.2	455.0	359.2	95.78	4.750	
10,400.0	7,596.0	10,334.3	7,494.0	51.2	53.8	72.21	2,700.7	753.2	454.9	355.9	99.01	4.595	
10,500.0	7,596.0	10,434.3	7,494.0	52.9	55.5	72.21	2,800.7	753.2	454.9	352.7	102.24	4.450	
10,600.0	7,596.0	10,534.3	7,494.0	54.6	57.2	72.21	2,900.7	753.2	454.9	349.5	105.48	4.313	
10,700.0	7,596.0	10,634.3	7,494.0	56.3	58.9	72.21	3,000.7	753.2	454.9	346.2	108.73	4.184	
10,800.0	7,596.0	10,734.3	7,494.0	58.0	60.5	72.21	3,100.7	753.2	454.9	342.9	111.98	4.062	
10,900.0	7,596.0	10,834.3	7,494.0	59.7	62.2	72.21	3,200.7	753.2	454.9	339.7	115.24	3.948	
11,000.0	7,596.0	10,934.3	7,494.0	61.4	63.9	72.21	3,300.7	753.2	454.9	336.4	118.50	3.839	
11,100.0	7,596.0	11,034.3	7,494.0	63.1	65.6	72.21	3,400.7	753.2	454.9	333.1	121.77	3.736	
11,200.0	7,596.0	11,134.3	7,494.0	64.8	67.3	72.21	3,500.7	753.1	454.9	329.9	125.04	3.638	
11,300.0	7,596.0	11,234.3	7,494.0	66.5	69.0	72.21	3,600.7	753.1	454.9	326.6	128.32	3.545	
11,400.0	7,596.0	11,334.3	7,494.0	68.2	70.7	72.21	3,700.7	753.1	454.9	323.3	131.59	3.457	
11,500.0	7,596.0	11,434.3	7,494.0	69.9	72.4	72.21	3,800.7	753.1	454.9	320.0	134.88	3.373	
11,600.0	7,596.0	11,534.3	7,494.0	71.6	74.1	72.21	3,900.7	753.1	454.9	316.7	138.16	3.292	
11,700.0	7,596.0	11,634.3	7,494.0	73.3	75.8	72.21	4,000.7	753.1	454.9	313.4	141.45	3.216	
11,800.0	7,596.0	11,734.3	7,494.0	75.1	77.5	72.21	4,100.7	753.1	454.9	310.1	144.74	3.143	
11,900.0	7,596.0	11,834.3	7,494.0	76.8	79.2	72.21	4,200.7	753.1	454.9	306.8	148.03	3.073	
12,000.0	7,596.0	11,934.3	7,494.0	78.5	81.0	72.21	4,300.7	753.1	454.9	303.5	151.32	3.006	
12,100.0	7,596.0	12,034.3	7,494.0	80.2	82.7	72.21	4,400.7	753.1	454.9	300.2	154.62	2.942	
12,200.0	7,596.0	12,134.3	7,494.0	82.0	84.4	72.21	4,500.7	753.1	454.9	296.9	157.92	2.880	
12,300.0	7,596.0	12,234.3	7,494.0	83.7	86.1	72.21	4,600.7	753.1	454.8	293.6	161.22	2.821	
12,400.0	7,596.0	12,334.3	7,494.0	85.4	87.8	72.21	4,700.7	753.1	454.8	290.3	164.52	2.765	
12,500.0	7,596.0	12,434.3	7,494.0	87.1	89.5	72.21	4,800.7	753.1	454.8	287.0	167.82	2.710	
12,600.0	7,596.0	12,534.3	7,494.0	88.9	91.3	72.21	4,900.7	753.1	454.8	283.7	171.12	2.658	
12,700.0	7,596.0	12,634.3	7,494.0	90.6	93.0	72.21	5,000.7	753.1	454.8	280.4	174.43	2.607	
12,800.0	7,596.0	12,734.3	7,494.0	92.3	94.7	72.20	5,100.7	753.1	454.8	277.1	177.74	2.559	
12,900.0	7,596.0	12,834.3	7,494.0	94.1	96.4	72.20	5,200.7	753.1	454.8	273.8	181.05	2.512	
13,000.0	7,596.0	12,934.3	7,494.0	95.8	98.2	72.20	5,300.7	753.0	454.8	270.5	184.36	2.467	
13,100.0	7,596.0	13,034.3	7,494.0	97.5	99.9	72.20	5,400.7	753.0	454.8	267.1	187.67	2.423	
13,200.0	7,596.0	13,134.3	7,494.0	99.3	101.6	72.20	5,500.7	753.0	454.8	263.8	190.98	2.381	
13,300.0	7,596.0	13,234.3	7,494.0	101.0	103.4	72.20	5,600.7	753.0	454.8	260.5	194.29	2.341	
13,400.0	7,596.0	13,334.3	7,494.0	102.7	105.1	72.20	5,700.7	753.0	454.8	257.2	197.61	2.301	
13,500.0	7,596.0	13,434.3	7,494.0	104.5	106.8	72.20	5,800.7	753.0	454.8	253.9	200.92	2.263	
13,571.7	7,596.0	13,505.9	7,494.0	105.7	108.1	72.20	5,872.4	753.0	454.8	251.5	203.30	2.237	
13,600.0	7,596.0	13,534.3	7,494.0	106.2	108.6	72.20	5,900.7	753.0	454.8	250.5	204.24	2.227 CC	
13,700.0	7,596.0	13,634.3	7,494.0	108.0	110.3	72.26	6,000.7	753.0	456.5	248.8	207.69	2.198 ES	
13,800.0	7,596.0	13,734.2	7,494.0	109.7	112.0	72.41	6,100.6	753.0	460.3	249.1	211.17	2.180	
13,900.0	7,596.0	13,834.1	7,494.0	111.4	113.7	72.56	6,200.5	753.0	464.2	249.5	214.66	2.162	
14,000.0	7,596.0	13,934.0	7,494.0	113.2	115.5	72.71	6,300.5	753.0	468.0	249.9	218.15	2.146	
14,100.0	7,596.0	14,033.9	7,494.0	114.9	117.2	72.86	6,400.4	753.0	471.9	250.3	221.64	2.129	
14,200.0	7,596.0	14,133.9	7,494.0	116.6	119.0	73.00	6,500.3	753.0	475.8	250.7	225.14	2.113	
14,300.0	7,596.0	14,233.8	7,494.0	118.4	120.7	73.14	6,600.2	753.0	479.7	251.0	228.64	2.098	
14,400.0	7,596.0	14,333.7	7,494.0	120.1	122.4	73.28	6,700.1	753.0	483.6	251.4	232.14	2.083	
14,500.0	7,596.0	14,433.6	7,494.0	121.8	124.2	73.42	6,800.0	753.0	487.4	251.8	235.64	2.069	

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 Jillson-East Rinn 3E-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4963.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4963.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3E-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - Jillson-East Rinn 3G-22H-N268 - Hz - Plan #2													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		
14,600.0	7,596.0	14,533.5	7,494.0	123.6	125.9	73.55	6,900.0	753.0	491.3	252.2	239.14	2.055		
14,700.0	7,596.0	14,633.4	7,494.0	125.3	127.6	73.69	6,999.9	753.0	495.2	252.6	242.64	2.041		
14,800.0	7,596.0	14,733.4	7,494.0	127.1	129.4	73.82	7,099.8	752.9	499.1	253.0	246.15	2.028		
14,900.0	7,596.0	14,833.3	7,494.0	128.8	131.1	73.95	7,199.7	752.9	503.0	253.4	249.65	2.015		
15,000.0	7,596.0	14,933.2	7,494.0	130.5	132.8	74.07	7,299.6	752.9	506.9	253.8	253.16	2.002		
15,100.0	7,596.0	15,033.1	7,494.0	132.3	134.6	74.20	7,399.6	752.9	510.8	254.1	256.67	1.990		
15,200.0	7,596.0	15,133.0	7,494.0	134.0	136.3	74.32	7,499.5	752.9	514.7	254.5	260.18	1.978		
15,300.0	7,596.0	15,232.9	7,494.0	135.8	138.1	74.44	7,599.4	752.9	518.6	254.9	263.69	1.967		
15,306.1	7,596.0	15,238.3	7,494.0	135.9	138.2	74.45	7,604.7	752.9	518.9	255.0	263.89	1.966 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3E-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4963.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4963.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3E-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - Jillson-East Rinn 3H-22H-N268 - Hz - Plan #3													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	5,189.2	5,270.3	5,264.4	10.7	10.1	-47.38	-265.7	1,208.1	997.7	978.2	19.50	51.166		
5,300.0	5,289.0	5,370.0	5,363.9	10.9	10.2	-47.48	-269.0	1,204.2	989.2	969.3	19.88	49.765		
5,400.0	5,388.8	5,469.6	5,463.4	11.1	10.4	-47.57	-272.2	1,200.4	980.8	960.5	20.26	48.417		
5,500.0	5,488.5	5,569.2	5,562.9	11.3	10.6	-47.67	-275.5	1,196.5	972.4	951.7	20.64	47.118		
5,600.0	5,588.3	5,668.9	5,662.4	11.5	10.8	-47.77	-278.7	1,192.6	963.9	942.9	21.02	45.866		
5,700.0	5,688.1	5,768.5	5,761.9	11.7	11.0	-47.88	-282.0	1,188.7	955.5	934.1	21.40	44.659		
5,800.0	5,787.8	5,868.1	5,861.4	11.9	11.2	-47.98	-285.2	1,184.8	947.1	925.3	21.78	43.493		
5,900.0	5,887.6	5,967.7	5,960.9	12.2	11.4	-48.09	-288.4	1,180.9	938.7	916.5	22.15	42.368		
6,000.0	5,987.4	6,067.4	6,060.4	12.4	11.6	-48.20	-291.7	1,177.0	930.2	907.7	22.53	41.280		
6,100.0	6,087.2	6,167.0	6,159.9	12.6	11.8	-48.31	-294.9	1,173.1	921.8	898.9	22.91	40.229		
6,200.0	6,186.9	6,266.6	6,259.4	12.8	12.0	-48.42	-298.2	1,169.2	913.4	890.1	23.29	39.212		
6,300.0	6,286.7	6,366.3	6,358.9	13.0	12.2	-48.53	-301.4	1,165.3	905.0	881.3	23.67	38.227		
6,400.0	6,386.5	6,465.9	6,458.4	13.2	12.4	-48.65	-304.7	1,161.4	896.6	872.6	24.05	37.274		
6,500.0	6,486.2	6,565.5	6,557.9	13.4	12.6	-48.77	-307.9	1,157.5	888.2	863.8	24.44	36.350		
6,600.0	6,586.0	6,665.1	6,657.4	13.6	12.8	-48.89	-311.2	1,153.6	879.8	855.0	24.82	35.454		
6,700.0	6,685.8	6,764.8	6,756.9	13.8	13.0	-49.01	-314.4	1,149.7	871.4	846.2	25.20	34.586		
6,800.0	6,785.5	6,864.4	6,856.4	14.1	13.2	-49.14	-317.7	1,145.8	863.1	837.5	25.58	33.744		
6,900.0	6,885.3	6,964.0	6,955.9	14.3	13.4	-49.27	-320.9	1,142.0	854.7	828.7	25.96	32.926		
7,000.0	6,985.1	7,064.0	7,055.8	14.5	13.6	-49.46	-323.2	1,138.0	846.3	820.0	26.33	32.143		
7,100.0	7,084.8	7,163.4	7,154.4	14.6	13.7	66.42	-312.2	1,133.9	837.8	811.3	26.54	31.573		
7,200.0	7,182.7	7,261.3	7,248.1	14.6	13.7	80.32	-284.9	1,129.7	829.3	802.7	26.56	31.225		
7,300.0	7,275.8	7,357.7	7,334.7	14.6	13.8	83.95	-242.8	1,125.6	820.9	794.4	26.47	31.007		
7,400.0	7,361.2	7,453.0	7,412.0	14.5	13.8	85.68	-187.5	1,121.5	813.0	786.6	26.39	30.813		
7,500.0	7,436.3	7,547.3	7,478.5	14.4	14.0	86.74	-120.9	1,117.7	805.8	779.4	26.40	30.516		
7,600.0	7,498.9	7,640.7	7,532.7	14.4	14.2	87.45	-45.1	1,114.2	799.4	772.7	26.65	29.997		
7,700.0	7,547.1	7,733.5	7,573.7	14.5	14.6	87.96	38.0	1,111.1	794.0	766.8	27.21	29.184		
7,800.0	7,579.3	7,825.8	7,600.7	14.9	15.2	88.32	126.2	1,108.5	789.8	761.7	28.13	28.080		
7,900.0	7,594.7	7,917.9	7,613.1	15.4	15.9	88.56	217.3	1,106.4	786.9	757.5	29.41	26.755		
8,000.0	7,596.0	8,015.1	7,614.0	16.1	16.8	88.61	314.4	1,104.7	785.1	754.0	31.07	25.269		
8,100.0	7,596.0	8,115.1	7,614.0	16.9	17.8	88.61	414.4	1,103.0	783.3	750.3	33.03	23.713		
8,200.0	7,596.0	8,215.1	7,614.0	17.9	19.0	88.61	514.4	1,101.2	781.6	746.3	35.24	22.180		
8,300.0	7,596.0	8,315.1	7,614.0	19.0	20.2	88.60	614.3	1,099.5	779.8	742.2	37.64	20.717		
8,400.0	7,596.0	8,415.0	7,614.0	20.1	21.5	88.60	714.3	1,097.7	778.1	737.8	40.21	19.351		
8,500.0	7,596.0	8,515.0	7,614.0	21.4	22.9	88.60	814.3	1,096.0	776.3	733.4	42.91	18.093		
8,600.0	7,596.0	8,615.0	7,614.0	22.7	24.3	88.59	914.3	1,094.2	774.6	728.8	45.72	16.942		
8,700.0	7,596.0	8,715.0	7,614.0	24.1	25.7	88.59	1,014.2	1,092.5	772.8	724.2	48.62	15.895		
8,800.0	7,596.0	8,815.0	7,614.0	25.5	27.2	88.59	1,114.2	1,090.7	771.1	719.5	51.59	14.944		
8,900.0	7,596.0	8,915.0	7,614.0	27.0	28.7	88.58	1,214.2	1,089.0	769.3	714.7	54.63	14.081		
9,000.0	7,596.0	9,014.9	7,614.0	28.5	30.3	88.58	1,314.1	1,087.2	767.6	709.8	57.73	13.296		
9,100.0	7,596.0	9,114.9	7,614.0	30.0	31.9	88.58	1,414.1	1,085.5	765.8	704.9	60.87	12.582		
9,200.0	7,596.0	9,214.9	7,614.0	31.6	33.4	88.57	1,514.1	1,083.7	764.1	700.0	64.04	11.931		
9,300.0	7,596.0	9,314.9	7,614.0	33.1	35.0	88.57	1,614.0	1,081.9	762.3	695.1	67.25	11.335		
9,400.0	7,596.0	9,414.9	7,614.0	34.7	36.7	88.57	1,714.0	1,080.2	760.6	690.1	70.49	10.790		
9,500.0	7,596.0	9,514.9	7,614.0	36.3	38.3	88.56	1,814.0	1,078.4	758.8	685.1	73.75	10.289		
9,600.0	7,596.0	9,614.9	7,614.0	37.9	39.9	88.56	1,914.0	1,076.7	757.1	680.0	77.04	9.827		
9,700.0	7,596.0	9,714.8	7,614.0	39.6	41.6	88.56	2,013.9	1,074.9	755.3	675.0	80.34	9.402		
9,800.0	7,596.0	9,814.8	7,614.0	41.2	43.2	88.55	2,113.9	1,073.2	753.6	669.9	83.66	9.008		
9,900.0	7,596.0	9,914.8	7,614.0	42.8	44.9	88.55	2,213.9	1,071.4	751.8	664.8	86.99	8.642		
10,000.0	7,596.0	10,014.8	7,614.0	44.5	46.6	88.55	2,313.8	1,069.7	750.1	659.7	90.34	8.303		
10,100.0	7,596.0	10,114.8	7,614.0	46.2	48.2	88.54	2,413.8	1,067.9	748.3	654.6	93.70	7.986		
10,200.0	7,596.0	10,214.8	7,614.0	47.8	49.9	88.54	2,513.8	1,066.2	746.6	649.5	97.07	7.691		
10,300.0	7,596.0	10,314.7	7,614.0	49.5	51.6	88.54	2,613.7	1,064.4	744.8	644.4	100.45	7.415		

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 Jillson-East Rinn 3E-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4963.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4963.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3E-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - Jillson-East Rinn 3H-22H-N268 - Hz - Plan #3													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	7,596.0	10,414.7	7,614.0	51.2	53.3	88.53	2,713.7	1,062.7	743.0	639.2	103.83	7.156		
10,500.0	7,596.0	10,514.7	7,614.0	52.9	55.0	88.53	2,813.7	1,060.9	741.3	634.1	107.23	6.913		
10,600.0	7,596.0	10,614.7	7,614.0	54.6	56.7	88.53	2,913.6	1,059.2	739.5	628.9	110.63	6.685		
10,700.0	7,596.0	10,714.7	7,614.0	56.3	58.4	88.52	3,013.6	1,057.4	737.8	623.8	114.04	6.470		
10,800.0	7,596.0	10,814.7	7,614.0	58.0	60.1	88.52	3,113.6	1,055.7	736.0	618.6	117.45	6.267		
10,900.0	7,596.0	10,914.7	7,614.0	59.7	61.8	88.52	3,213.6	1,053.9	734.3	613.4	120.87	6.075		
11,000.0	7,596.0	11,014.6	7,614.0	61.4	63.5	88.51	3,313.5	1,052.2	732.5	608.3	124.29	5.894		
11,100.0	7,596.0	11,114.6	7,614.0	63.1	65.2	88.51	3,413.5	1,050.4	730.8	603.1	127.72	5.722		
11,200.0	7,596.0	11,214.6	7,614.0	64.8	66.9	88.51	3,513.5	1,048.7	729.0	597.9	131.16	5.559		
11,300.0	7,596.0	11,314.6	7,614.0	66.5	68.7	88.50	3,613.4	1,046.9	727.3	592.7	134.59	5.404		
11,400.0	7,596.0	11,414.6	7,614.0	68.2	70.4	88.50	3,713.4	1,045.2	725.5	587.5	138.03	5.256		
11,500.0	7,596.0	11,514.6	7,614.0	69.9	72.1	88.50	3,813.4	1,043.4	723.8	582.3	141.48	5.116		
11,600.0	7,596.0	11,614.5	7,614.0	71.6	73.8	88.49	3,913.3	1,041.7	722.0	577.1	144.92	4.982		
11,700.0	7,596.0	11,714.5	7,614.0	73.3	75.5	88.49	4,013.3	1,039.9	720.3	571.9	148.37	4.855		
11,800.0	7,596.0	11,814.5	7,614.0	75.1	77.3	88.48	4,113.3	1,038.2	718.5	566.7	151.82	4.733		
11,900.0	7,596.0	11,914.5	7,614.0	76.8	79.0	88.48	4,213.2	1,036.4	716.8	561.5	155.28	4.616		
12,000.0	7,596.0	12,014.5	7,614.0	78.5	80.7	88.48	4,313.2	1,034.7	715.0	556.3	158.73	4.505		
12,100.0	7,596.0	12,114.5	7,614.0	80.2	82.4	88.47	4,413.2	1,032.9	713.3	551.1	162.19	4.398		
12,200.0	7,596.0	12,214.5	7,614.0	82.0	84.2	88.47	4,513.2	1,031.2	711.5	545.9	165.65	4.295		
12,300.0	7,596.0	12,314.4	7,614.0	83.7	85.9	88.47	4,613.1	1,029.4	709.8	540.7	169.11	4.197		
12,400.0	7,596.0	12,414.4	7,614.0	85.4	87.6	88.46	4,713.1	1,027.7	708.0	535.5	172.58	4.103		
12,500.0	7,596.0	12,514.4	7,614.0	87.1	89.4	88.46	4,813.1	1,025.9	706.3	530.3	176.04	4.012		
12,600.0	7,596.0	12,614.4	7,614.0	88.9	91.1	88.45	4,913.0	1,024.2	704.5	525.0	179.51	3.925		
12,700.0	7,596.0	12,714.4	7,614.0	90.6	92.8	88.45	5,013.0	1,022.4	702.8	519.8	182.98	3.841		
12,800.0	7,596.0	12,814.4	7,614.0	92.3	94.6	88.45	5,113.0	1,020.7	701.0	514.6	186.45	3.760		
12,900.0	7,596.0	12,914.3	7,614.0	94.1	96.3	88.44	5,212.9	1,018.9	699.3	509.4	189.92	3.682		
13,000.0	7,596.0	13,014.3	7,614.0	95.8	98.0	88.44	5,312.9	1,017.2	697.5	504.1	193.40	3.607		
13,100.0	7,596.0	13,114.3	7,614.0	97.5	99.8	88.43	5,412.9	1,015.4	695.8	498.9	196.87	3.534		
13,200.0	7,596.0	13,214.3	7,614.0	99.3	101.5	88.43	5,512.8	1,013.7	694.0	493.7	200.34	3.464		
13,300.0	7,596.0	13,314.3	7,614.0	101.0	103.3	88.43	5,612.8	1,011.9	692.3	488.5	203.82	3.397		
13,400.0	7,596.0	13,414.3	7,614.0	102.7	105.0	88.42	5,712.8	1,010.2	690.5	483.2	207.30	3.331		
13,500.0	7,596.0	13,514.3	7,614.0	104.5	106.7	88.42	5,812.8	1,008.4	688.8	478.0	210.78	3.268		
13,600.0	7,596.0	13,614.2	7,614.0	106.2	108.5	88.42	5,912.7	1,006.7	687.0	472.8	214.25	3.207		
13,648.8	7,596.0	13,663.0	7,614.0	107.1	109.3	88.41	5,961.5	1,005.8	686.6	470.7	215.94	3.180 CC		
13,700.0	7,596.0	13,714.2	7,614.0	108.0	110.2	88.42	6,012.7	1,004.9	687.1	469.4	217.65	3.157		
13,800.0	7,596.0	13,814.2	7,614.0	109.7	111.9	88.42	6,112.7	1,003.2	689.4	468.3	221.09	3.118		
13,900.0	7,596.0	13,900.0	7,614.0	111.4	113.4	88.43	6,198.4	1,002.0	692.1	467.8	224.33	3.085 ES		
14,000.0	7,596.0	13,984.0	7,614.0	113.2	114.9	88.44	6,282.4	1,002.9	697.3	469.8	227.53	3.065		
14,100.0	7,596.0	14,064.1	7,614.0	114.9	116.3	88.45	6,362.4	1,006.1	705.4	474.7	230.66	3.058 SF		
14,200.0	7,596.0	14,145.9	7,614.0	116.6	117.7	88.47	6,444.1	1,011.6	716.2	482.3	233.82	3.063		
14,300.0	7,596.0	14,245.2	7,614.0	118.4	119.4	88.49	6,543.1	1,019.4	728.0	490.8	237.29	3.068		
14,400.0	7,596.0	14,344.5	7,614.0	120.1	121.1	88.52	6,642.0	1,027.2	739.9	499.2	240.75	3.073		
14,500.0	7,596.0	14,443.8	7,614.0	121.8	122.9	88.54	6,741.0	1,035.0	751.8	507.6	244.22	3.078		
14,600.0	7,596.0	14,543.1	7,614.0	123.6	124.6	88.56	6,840.0	1,042.8	763.7	516.0	247.69	3.083		
14,700.0	7,596.0	14,642.4	7,614.0	125.3	126.3	88.59	6,939.0	1,050.6	775.6	524.4	251.16	3.088		
14,800.0	7,596.0	14,741.6	7,614.0	127.1	128.0	88.61	7,038.0	1,058.4	787.5	532.9	254.63	3.093		
14,900.0	7,596.0	14,840.9	7,614.0	128.8	129.7	88.63	7,137.0	1,066.2	799.4	541.3	258.10	3.097		
15,000.0	7,596.0	14,940.2	7,614.0	130.5	131.5	88.65	7,236.0	1,074.0	811.3	549.7	261.57	3.102		
15,100.0	7,596.0	15,039.5	7,614.0	132.3	133.2	88.67	7,334.9	1,081.8	823.1	558.1	265.04	3.106		
15,200.0	7,596.0	15,138.8	7,614.0	134.0	134.9	88.69	7,433.9	1,089.6	835.0	566.5	268.51	3.110		
15,300.0	7,596.0	15,238.1	7,614.0	135.8	136.6	88.71	7,532.9	1,097.4	846.9	574.9	271.98	3.114		
15,306.1	7,596.0	15,244.1	7,614.0	135.9	136.7	88.71	7,538.9	1,097.8	847.6	575.4	272.19	3.114		

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 Jillson-East Rinn 3E-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4963.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4963.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3E-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3E-22H-M268
Project:	DJ Wattenberg	TVD Reference:	13' KB @ 4963.0ft (Ensign 124)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	13' KB @ 4963.0ft (Ensign 124)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3E-22H-M268	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 #2	Offset TVD Reference:	Offset Datum

Offset Design S22-T2N-R68W (Jillson-East Rinn) - NYGREN 12-22 (EXISTING) - KERR-MCGEE WELL - NO SURVE													Offset Site Error:	0.0 ft
Survey Program: 7710-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		
8,400.0	7,596.0	7,553.0	7,553.0	20.1	13.2	-90.00	1,618.5	64.6	952.7	920.2	32.51	29.300		
8,500.0	7,596.0	7,553.0	7,553.0	21.4	13.2	-90.00	1,618.5	64.6	856.7	822.9	33.82	25.331		
8,600.0	7,596.0	7,553.0	7,553.0	22.7	13.2	-90.00	1,618.5	64.6	761.9	726.7	35.19	21.649		
8,700.0	7,596.0	7,553.0	7,553.0	24.1	13.2	-90.00	1,618.5	64.6	668.5	631.9	36.61	18.258		
8,800.0	7,596.0	7,553.0	7,553.0	25.5	13.2	-90.00	1,618.5	64.6	577.4	539.3	38.08	15.163		
8,900.0	7,596.0	7,553.0	7,553.0	27.0	13.2	-90.00	1,618.5	64.6	489.7	450.1	39.58	12.373		
9,000.0	7,596.0	7,553.0	7,553.0	28.5	13.2	-90.00	1,618.5	64.6	407.7	366.6	41.11	9.918		
9,100.0	7,596.0	7,553.0	7,553.0	30.0	13.2	-90.00	1,618.5	64.6	335.7	293.0	42.66	7.868		
9,200.0	7,596.0	7,553.0	7,553.0	31.6	13.2	-90.00	1,618.5	64.6	281.3	237.0	44.24	6.358		
9,300.0	7,596.0	7,553.0	7,553.0	33.1	13.2	-90.00	1,618.5	64.6	256.0	210.2	45.83	5.586		
9,317.8	7,596.0	7,553.0	7,553.0	33.4	13.2	-90.00	1,618.5	64.6	255.4	209.3	46.11	5.538 CC, ES, SF		
9,400.0	7,596.0	7,553.0	7,553.0	34.7	13.2	-90.00	1,618.5	64.6	268.3	220.9	47.44	5.656		
9,500.0	7,596.0	7,553.0	7,553.0	36.3	13.2	-90.00	1,618.5	64.6	313.7	264.7	49.06	6.395		
9,600.0	7,596.0	7,553.0	7,553.0	37.9	13.2	-90.00	1,618.5	64.6	380.6	329.9	50.70	7.508		
9,700.0	7,596.0	7,553.0	7,553.0	39.6	13.2	-90.00	1,618.5	64.6	459.7	407.3	52.34	8.783		
9,800.0	7,596.0	7,553.0	7,553.0	41.2	13.2	-90.00	1,618.5	64.6	545.7	491.7	53.99	10.106		
9,900.0	7,596.0	7,553.0	7,553.0	42.8	13.2	-90.00	1,618.5	64.6	635.8	580.1	55.66	11.423		
10,000.0	7,596.0	7,553.0	7,553.0	44.5	13.2	-90.00	1,618.5	64.6	728.4	671.1	57.33	12.707		
10,100.0	7,596.0	7,553.0	7,553.0	46.2	13.2	-90.00	1,618.5	64.6	822.8	763.8	59.00	13.946		
10,200.0	7,596.0	7,553.0	7,553.0	47.8	13.2	-90.00	1,618.5	64.6	918.4	857.7	60.68	15.135		

Anticollision Report

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Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Reference Depths are relative to 13' KB @ 4963.0ft (Ensign 124)

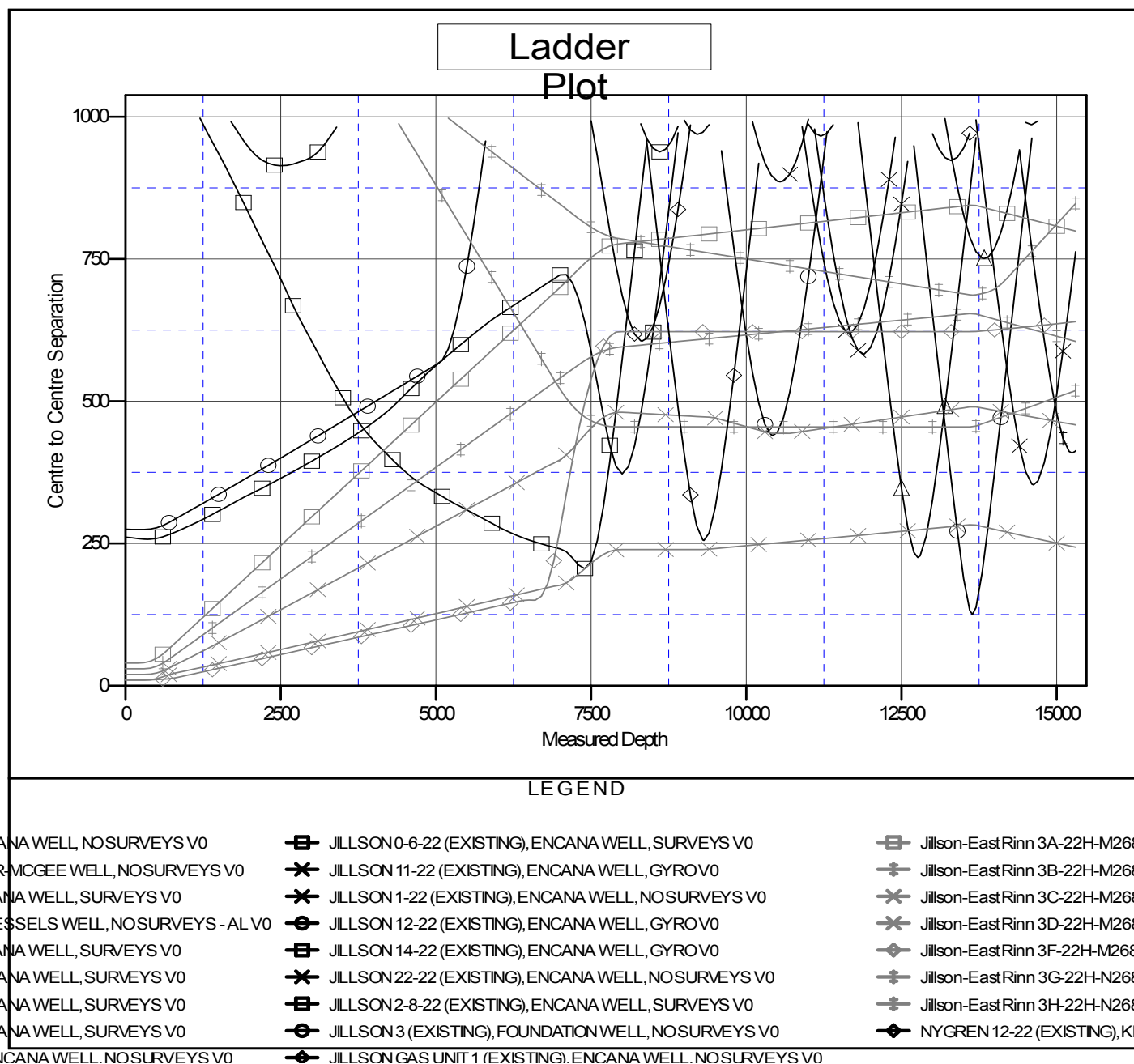
Offset Depths are relative to Offset Datum

Central Meridian is -105.500000 °

Coordinates are relative to: Jillson-East Rinn 3E-22H-M268

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.33°



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