

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N-/S	+E-/W	Dleg	TFace	Vsect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.0	
3	1014.4	5.14	114.84	1013.7	-9.7	20.9	1.00	114.84	-9.7	
4	7020.5	5.14	114.84	6995.6	-235.9	509.7	0.00	0.00	-235.9	
5	7942.9	90.00	359.00	7589.0	337.4	547.7	10.00	-115.75	337.4	
6	13812.9	90.00	359.00	7589.0	6206.5	445.3	0.00	0.00	6206.5	Jillson-East Rinn 3H-22H-N268 TGT
7	14243.6	90.00	2.23	7589.0	6637.1	449.9	0.75	90.00	6637.1	Jillson-East Rinn 3H-22H-N268 PBHL
8	15326.4	90.00	2.23	7589.0	7719.1	492.1	0.00	0.00	7719.1	Jillson-East Rinn 3H-22H-N268 PBHL

DESIGN TARGET DETAILS

Name	+N-/S	+E-/W	Northing	Easting	Latitude	Longitude
Jillson-East Rinn 3H-22H-N268 PBHL	7719.1	492.1	1293814.67	3142749.64	40.138780	-104.989440
Jillson-East Rinn 3H-22H-N268 TGT	6206.5	445.3	1292301.77	3142711.55	40.134628	-104.989607

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
350.0	350.0	Fox Hills - BASE
4382.0	4396.3	Sussex
4627.0	4642.3	Sussex Marker
4908.0	4924.4	Shannon
6500.0	6522.9	Teepee Buttes (*if present)
7213.0	7242.6	Sharon Springs
7298.0	7336.6	Niobrara
7362.0	7413.4	B Chalk
7391.0	7450.8	B Marl
7447.0	7530.0	C Chalk
7473.0	7571.2	C Marl
7559.0	7756.3	Ft. Hayes
7579.0	7835.5	Codell

Azimuths to True North
 Magnetic North: 8.68°
 Magnetic Field Strength: 52739.75nT
 Dip Angle: 66.71°
 Date: 7/9/2013
 Model: IGRF2010

Plan #2
 Jillson-East Rinn 3H-22H-N268
 13xxx; LR
 WELL @ 5000.0ft (Original Well Elev)
 Ground Elevation @ 4975.0
 North American Datum 1983
 Well Jillson-East Rinn 3H-22H-N268, True North

Vertical Section at 0.00° (1300 ft/in)

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Jillson-East Rinn 3H-22H-N268
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 5000.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 5000.0ft (Original Well Elev)
Site:	S22-T2N-R68W (Jillson-East Rinn)	North Reference:	True
Well:	Jillson-East Rinn 3H-22H-N268	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 3H-22H-N268					
Well Position	+N/-S	0.0 ft	Northing:	1,286,092.85 ft	Latitude:	40.117590
	+E/-W	0.0 ft	Easting:	3,142,301.87 ft	Longitude:	-104.991200
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,975.0 ft

Wellbore	Hz				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	IGRF2010	7/9/2013	(°)	(°)	(nT)
			8.68	66.71	52,740

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	
500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,014.4	5.14	114.84	1,013.7	-9.7	20.9	1.00	1.00	0.00	114.84	
7,020.5	5.14	114.84	6,995.6	-235.9	509.7	0.00	0.00	0.00	0.00	
7,942.9	90.00	359.00	7,589.0	337.4	547.7	10.00	9.20	-12.56	-115.75	
13,812.9	90.00	359.00	7,589.0	6,206.5	445.3	0.00	0.00	0.00	0.00	Jillson-East Rinn 3H-2
14,243.6	90.00	2.23	7,589.0	6,637.1	449.9	0.75	0.00	0.75	90.00	
15,326.4	90.00	2.23	7,589.0	7,719.1	492.1	0.00	0.00	0.00	0.00	Jillson-East Rinn 3H-2

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Jillson-East Rinn 3H-22H-N268
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 5000.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 5000.0ft (Original Well Elev)
Site:	S22-T2N-R68W (Jillson-East Rinn)	North Reference:	True
Well:	Jillson-East Rinn 3H-22H-N268	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	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	
350.0	0.00	0.00	350.0	0.0	0.0	0.0	0.00	0.00	Fox Hills - BASE
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	KOP @ 500'
600.0	1.00	114.84	600.0	-0.4	0.8	-0.4	1.00	1.00	
700.0	2.00	114.84	700.0	-1.5	3.2	-1.5	1.00	1.00	
800.0	3.00	114.84	799.9	-3.3	7.1	-3.3	1.00	1.00	
900.0	4.00	114.84	899.7	-5.9	12.7	-5.9	1.00	1.00	
1,000.0	5.00	114.84	999.4	-9.2	19.8	-9.2	1.00	1.00	
1,014.4	5.14	114.84	1,013.7	-9.7	20.9	-9.7	1.00	1.00	EOB; Inc=5.14°
1,100.0	5.14	114.84	1,099.0	-12.9	27.9	-12.9	0.00	0.00	
1,200.0	5.14	114.84	1,198.6	-16.7	36.0	-16.7	0.00	0.00	
1,300.0	5.14	114.84	1,298.2	-20.5	44.2	-20.5	0.00	0.00	
1,400.0	5.14	114.84	1,397.8	-24.2	52.3	-24.2	0.00	0.00	
1,500.0	5.14	114.84	1,497.4	-28.0	60.5	-28.0	0.00	0.00	
1,600.0	5.14	114.84	1,597.0	-31.8	68.6	-31.8	0.00	0.00	
1,700.0	5.14	114.84	1,696.5	-35.5	76.7	-35.5	0.00	0.00	
1,800.0	5.14	114.84	1,796.1	-39.3	84.9	-39.3	0.00	0.00	
1,900.0	5.14	114.84	1,895.7	-43.0	93.0	-43.0	0.00	0.00	
2,000.0	5.14	114.84	1,995.3	-46.8	101.1	-46.8	0.00	0.00	
2,100.0	5.14	114.84	2,094.9	-50.6	109.3	-50.6	0.00	0.00	
2,200.0	5.14	114.84	2,194.5	-54.3	117.4	-54.3	0.00	0.00	
2,300.0	5.14	114.84	2,294.1	-58.1	125.6	-58.1	0.00	0.00	
2,400.0	5.14	114.84	2,393.7	-61.9	133.7	-61.9	0.00	0.00	
2,500.0	5.14	114.84	2,493.3	-65.6	141.8	-65.6	0.00	0.00	
2,600.0	5.14	114.84	2,592.9	-69.4	150.0	-69.4	0.00	0.00	
2,700.0	5.14	114.84	2,692.5	-73.2	158.1	-73.2	0.00	0.00	
2,800.0	5.14	114.84	2,792.1	-76.9	166.2	-76.9	0.00	0.00	
2,900.0	5.14	114.84	2,891.7	-80.7	174.4	-80.7	0.00	0.00	
3,000.0	5.14	114.84	2,991.3	-84.5	182.5	-84.5	0.00	0.00	
3,100.0	5.14	114.84	3,090.9	-88.2	190.6	-88.2	0.00	0.00	
3,200.0	5.14	114.84	3,190.5	-92.0	198.8	-92.0	0.00	0.00	
3,300.0	5.14	114.84	3,290.1	-95.8	206.9	-95.8	0.00	0.00	
3,400.0	5.14	114.84	3,389.7	-99.5	215.1	-99.5	0.00	0.00	
3,500.0	5.14	114.84	3,489.3	-103.3	223.2	-103.3	0.00	0.00	
3,600.0	5.14	114.84	3,588.9	-107.1	231.3	-107.1	0.00	0.00	
3,700.0	5.14	114.84	3,688.5	-110.8	239.5	-110.8	0.00	0.00	
3,800.0	5.14	114.84	3,788.1	-114.6	247.6	-114.6	0.00	0.00	
3,900.0	5.14	114.84	3,887.7	-118.4	255.7	-118.4	0.00	0.00	
4,000.0	5.14	114.84	3,987.3	-122.1	263.9	-122.1	0.00	0.00	
4,100.0	5.14	114.84	4,086.9	-125.9	272.0	-125.9	0.00	0.00	
4,200.0	5.14	114.84	4,186.5	-129.7	280.2	-129.7	0.00	0.00	
4,300.0	5.14	114.84	4,286.1	-133.4	288.3	-133.4	0.00	0.00	
4,396.3	5.14	114.84	4,382.0	-137.1	296.1	-137.1	0.00	0.00	Sussex
4,400.0	5.14	114.84	4,385.7	-137.2	296.4	-137.2	0.00	0.00	
4,500.0	5.14	114.84	4,485.3	-141.0	304.6	-141.0	0.00	0.00	
4,600.0	5.14	114.84	4,584.9	-144.7	312.7	-144.7	0.00	0.00	
4,642.3	5.14	114.84	4,627.0	-146.3	316.1	-146.3	0.00	0.00	Sussex Marker
4,700.0	5.14	114.84	4,684.5	-148.5	320.8	-148.5	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Jillson-East Rinn 3H-22H-N268
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 5000.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 5000.0ft (Original Well Elev)
Site:	S22-T2N-R68W (Jillson-East Rinn)	North Reference:	True
Well:	Jillson-East Rinn 3H-22H-N268	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
4,800.0	5.14	114.84	4,784.1	-152.3	329.0	-152.3	0.00	0.00	
4,900.0	5.14	114.84	4,883.7	-156.0	337.1	-156.0	0.00	0.00	
4,924.4	5.14	114.84	4,908.0	-157.0	339.1	-157.0	0.00	0.00	Shannon
5,000.0	5.14	114.84	4,983.3	-159.8	345.3	-159.8	0.00	0.00	
5,100.0	5.14	114.84	5,082.9	-163.6	353.4	-163.6	0.00	0.00	
5,200.0	5.14	114.84	5,182.4	-167.3	361.5	-167.3	0.00	0.00	
5,300.0	5.14	114.84	5,282.0	-171.1	369.7	-171.1	0.00	0.00	
5,400.0	5.14	114.84	5,381.6	-174.9	377.8	-174.9	0.00	0.00	
5,500.0	5.14	114.84	5,481.2	-178.6	385.9	-178.6	0.00	0.00	
5,600.0	5.14	114.84	5,580.8	-182.4	394.1	-182.4	0.00	0.00	
5,700.0	5.14	114.84	5,680.4	-186.2	402.2	-186.2	0.00	0.00	
5,800.0	5.14	114.84	5,780.0	-189.9	410.4	-189.9	0.00	0.00	
5,900.0	5.14	114.84	5,879.6	-193.7	418.5	-193.7	0.00	0.00	
6,000.0	5.14	114.84	5,979.2	-197.5	426.6	-197.5	0.00	0.00	
6,100.0	5.14	114.84	6,078.8	-201.2	434.8	-201.2	0.00	0.00	
6,200.0	5.14	114.84	6,178.4	-205.0	442.9	-205.0	0.00	0.00	
6,300.0	5.14	114.84	6,278.0	-208.8	451.0	-208.8	0.00	0.00	
6,400.0	5.14	114.84	6,377.6	-212.5	459.2	-212.5	0.00	0.00	
6,500.0	5.14	114.84	6,477.2	-216.3	467.3	-216.3	0.00	0.00	
6,522.9	5.14	114.84	6,500.0	-217.2	469.2	-217.2	0.00	0.00	Teepee Buttes (*if present)
6,600.0	5.14	114.84	6,576.8	-220.1	475.4	-220.1	0.00	0.00	
6,700.0	5.14	114.84	6,676.4	-223.8	483.6	-223.8	0.00	0.00	
6,800.0	5.14	114.84	6,776.0	-227.6	491.7	-227.6	0.00	0.00	
6,900.0	5.14	114.84	6,875.6	-231.4	499.9	-231.4	0.00	0.00	
7,000.0	5.14	114.84	6,975.2	-235.1	508.0	-235.1	0.00	0.00	
7,020.5	5.14	114.84	6,995.6	-235.9	509.7	-235.9	0.00	0.00	Start build/turn @ 7020' MD
7,100.0	7.35	37.92	7,074.8	-233.4	516.0	-233.4	10.00	2.77	
7,200.0	16.36	15.02	7,172.6	-214.7	523.6	-214.7	10.00	9.01	
7,242.6	20.48	11.53	7,213.0	-201.6	526.7	-201.6	10.00	9.66	Sharon Springs
7,300.0	26.10	8.52	7,265.7	-179.2	530.6	-179.2	10.00	9.79	
7,336.6	29.70	7.17	7,298.0	-162.3	532.9	-162.3	10.00	9.85	Niobrara
7,400.0	35.97	5.41	7,351.3	-128.1	536.6	-128.1	10.00	9.89	
7,413.4	37.30	5.11	7,362.0	-120.2	537.3	-120.2	10.00	9.91	B Chalk
7,450.8	41.01	4.35	7,391.0	-96.6	539.3	-96.6	10.00	9.92	B Marl
7,500.0	45.89	3.50	7,426.7	-62.9	541.6	-62.9	10.00	9.93	
7,530.0	48.87	3.06	7,447.0	-40.9	542.8	-40.9	10.00	9.94	C Chalk
7,571.2	52.97	2.50	7,473.0	-8.9	544.4	-8.9	10.00	9.95	C Marl
7,600.0	55.84	2.15	7,489.8	14.5	545.3	14.5	10.00	9.95	
7,700.0	65.80	1.09	7,538.5	101.7	547.8	101.7	10.00	9.96	
7,756.3	71.41	0.56	7,559.0	154.1	548.5	154.1	10.00	9.96	Ft. Hayes
7,800.0	75.76	0.18	7,571.3	196.0	548.8	196.0	10.00	9.96	
7,835.5	79.30	359.88	7,579.0	230.6	548.8	230.6	10.00	9.97	Codell
7,900.0	85.73	359.35	7,587.4	294.5	548.4	294.5	10.00	9.97	
7,942.9	90.00	359.00	7,589.0	337.4	547.7	337.4	10.00	9.97	LP @ 7589' TVD; 90°
8,000.0	90.00	359.00	7,589.0	394.5	546.7	394.5	0.00	0.00	
8,100.0	90.00	359.00	7,589.0	494.5	545.0	494.5	0.00	0.00	
8,200.0	90.00	359.00	7,589.0	594.4	543.3	594.4	0.00	0.00	
8,300.0	90.00	359.00	7,589.0	694.4	541.5	694.4	0.00	0.00	
8,400.0	90.00	359.00	7,589.0	794.4	539.8	794.4	0.00	0.00	
8,500.0	90.00	359.00	7,589.0	894.4	538.0	894.4	0.00	0.00	
8,600.0	90.00	359.00	7,589.0	994.4	536.3	994.4	0.00	0.00	
8,700.0	90.00	359.00	7,589.0	1,094.4	534.5	1,094.4	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Jillson-East Rinn 3H-22H-N268
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 5000.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 5000.0ft (Original Well Elev)
Site:	S22-T2N-R68W (Jillson-East Rinn)	North Reference:	True
Well:	Jillson-East Rinn 3H-22H-N268	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	359.00	7,589.0	1,194.4	532.8	1,194.4	0.00	0.00	
8,900.0	90.00	359.00	7,589.0	1,294.3	531.0	1,294.3	0.00	0.00	
9,000.0	90.00	359.00	7,589.0	1,394.3	529.3	1,394.3	0.00	0.00	
9,100.0	90.00	359.00	7,589.0	1,494.3	527.6	1,494.3	0.00	0.00	
9,200.0	90.00	359.00	7,589.0	1,594.3	525.8	1,594.3	0.00	0.00	
9,300.0	90.00	359.00	7,589.0	1,694.3	524.1	1,694.3	0.00	0.00	
9,400.0	90.00	359.00	7,589.0	1,794.3	522.3	1,794.3	0.00	0.00	
9,500.0	90.00	359.00	7,589.0	1,894.2	520.6	1,894.2	0.00	0.00	
9,600.0	90.00	359.00	7,589.0	1,994.2	518.8	1,994.2	0.00	0.00	
9,700.0	90.00	359.00	7,589.0	2,094.2	517.1	2,094.2	0.00	0.00	
9,800.0	90.00	359.00	7,589.0	2,194.2	515.3	2,194.2	0.00	0.00	
9,900.0	90.00	359.00	7,589.0	2,294.2	513.6	2,294.2	0.00	0.00	
10,000.0	90.00	359.00	7,589.0	2,394.2	511.8	2,394.2	0.00	0.00	
10,100.0	90.00	359.00	7,589.0	2,494.2	510.1	2,494.2	0.00	0.00	
10,200.0	90.00	359.00	7,589.0	2,594.1	508.4	2,594.1	0.00	0.00	
10,300.0	90.00	359.00	7,589.0	2,694.1	506.6	2,694.1	0.00	0.00	
10,400.0	90.00	359.00	7,589.0	2,794.1	504.9	2,794.1	0.00	0.00	
10,500.0	90.00	359.00	7,589.0	2,894.1	503.1	2,894.1	0.00	0.00	
10,600.0	90.00	359.00	7,589.0	2,994.1	501.4	2,994.1	0.00	0.00	
10,700.0	90.00	359.00	7,589.0	3,094.1	499.6	3,094.1	0.00	0.00	
10,800.0	90.00	359.00	7,589.0	3,194.0	497.9	3,194.0	0.00	0.00	
10,900.0	90.00	359.00	7,589.0	3,294.0	496.1	3,294.0	0.00	0.00	
11,000.0	90.00	359.00	7,589.0	3,394.0	494.4	3,394.0	0.00	0.00	
11,100.0	90.00	359.00	7,589.0	3,494.0	492.6	3,494.0	0.00	0.00	
11,200.0	90.00	359.00	7,589.0	3,594.0	490.9	3,594.0	0.00	0.00	
11,300.0	90.00	359.00	7,589.0	3,694.0	489.2	3,694.0	0.00	0.00	
11,400.0	90.00	359.00	7,589.0	3,794.0	487.4	3,794.0	0.00	0.00	
11,500.0	90.00	359.00	7,589.0	3,893.9	485.7	3,893.9	0.00	0.00	
11,600.0	90.00	359.00	7,589.0	3,993.9	483.9	3,993.9	0.00	0.00	
11,700.0	90.00	359.00	7,589.0	4,093.9	482.2	4,093.9	0.00	0.00	
11,800.0	90.00	359.00	7,589.0	4,193.9	480.4	4,193.9	0.00	0.00	
11,900.0	90.00	359.00	7,589.0	4,293.9	478.7	4,293.9	0.00	0.00	
12,000.0	90.00	359.00	7,589.0	4,393.9	476.9	4,393.9	0.00	0.00	
12,100.0	90.00	359.00	7,589.0	4,493.8	475.2	4,493.8	0.00	0.00	
12,200.0	90.00	359.00	7,589.0	4,593.8	473.4	4,593.8	0.00	0.00	
12,300.0	90.00	359.00	7,589.0	4,693.8	471.7	4,693.8	0.00	0.00	
12,400.0	90.00	359.00	7,589.0	4,793.8	470.0	4,793.8	0.00	0.00	
12,500.0	90.00	359.00	7,589.0	4,893.8	468.2	4,893.8	0.00	0.00	
12,600.0	90.00	359.00	7,589.0	4,993.8	466.5	4,993.8	0.00	0.00	
12,700.0	90.00	359.00	7,589.0	5,093.8	464.7	5,093.8	0.00	0.00	
12,800.0	90.00	359.00	7,589.0	5,193.7	463.0	5,193.7	0.00	0.00	
12,900.0	90.00	359.00	7,589.0	5,293.7	461.2	5,293.7	0.00	0.00	
13,000.0	90.00	359.00	7,589.0	5,393.7	459.5	5,393.7	0.00	0.00	
13,100.0	90.00	359.00	7,589.0	5,493.7	457.7	5,493.7	0.00	0.00	
13,200.0	90.00	359.00	7,589.0	5,593.7	456.0	5,593.7	0.00	0.00	
13,300.0	90.00	359.00	7,589.0	5,693.7	454.3	5,693.7	0.00	0.00	
13,400.0	90.00	359.00	7,589.0	5,793.6	452.5	5,793.6	0.00	0.00	
13,500.0	90.00	359.00	7,589.0	5,893.6	450.8	5,893.6	0.00	0.00	
13,600.0	90.00	359.00	7,589.0	5,993.6	449.0	5,993.6	0.00	0.00	
13,700.0	90.00	359.00	7,589.0	6,093.6	447.3	6,093.6	0.00	0.00	
13,800.0	90.00	359.00	7,589.0	6,193.6	445.5	6,193.6	0.00	0.00	
13,812.9	90.00	359.00	7,589.0	6,206.5	445.3	6,206.5	0.00	0.00	Start turn @ 13812' MD - Jillson-East Rinn 3H-2

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Jillson-East Rinn 3H-22H-N268
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 5000.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 5000.0ft (Original Well Elev)
Site:	S22-T2N-R68W (Jillson-East Rinn)	North Reference:	True
Well:	Jillson-East Rinn 3H-22H-N268	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
13,900.0	90.00	359.65	7,589.0	6,293.6	444.3	6,293.6	0.75	0.00	
14,000.0	90.00	0.40	7,589.0	6,393.6	444.3	6,393.6	0.75	0.00	
14,100.0	90.00	1.15	7,589.0	6,493.6	445.7	6,493.6	0.75	0.00	
14,200.0	90.00	1.90	7,589.0	6,593.5	448.4	6,593.5	0.75	0.00	
14,243.6	90.00	2.23	7,589.0	6,637.1	449.9	6,637.1	0.75	0.00	End of turn @ 14243' MD
14,300.0	90.00	2.23	7,589.0	6,693.5	452.1	6,693.5	0.00	0.00	
14,400.0	90.00	2.23	7,589.0	6,793.4	456.0	6,793.4	0.00	0.00	
14,500.0	90.00	2.23	7,589.0	6,893.3	459.9	6,893.3	0.00	0.00	
14,600.0	90.00	2.23	7,589.0	6,993.2	463.8	6,993.2	0.00	0.00	
14,700.0	90.00	2.23	7,589.0	7,093.2	467.7	7,093.2	0.00	0.00	
14,800.0	90.00	2.23	7,589.0	7,193.1	471.6	7,193.1	0.00	0.00	
14,900.0	90.00	2.23	7,589.0	7,293.0	475.5	7,293.0	0.00	0.00	
15,000.0	90.00	2.23	7,589.0	7,392.9	479.4	7,392.9	0.00	0.00	
15,100.0	90.00	2.23	7,589.0	7,492.9	483.3	7,492.9	0.00	0.00	
15,200.0	90.00	2.23	7,589.0	7,592.8	487.1	7,592.8	0.00	0.00	
15,300.0	90.00	2.23	7,589.0	7,692.7	491.0	7,692.7	0.00	0.00	
15,326.4	90.00	2.23	7,589.0	7,719.1	492.1	7,719.1	0.00	0.00	TD at 15326.4 - Jillson-East Rinn 3H-22H-N268

Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
Jillson-East Rinn 3H-22H - hit/miss target - Shape - plan hits target center - Point	0.00	0.00	7,589.0	7,719.1	492.1	1,293,814.67	3,142,749.64	40.138780	-104.989440
Jillson-East Rinn 3H-22H - plan hits target center - Point	0.00	0.00	7,589.0	6,206.5	445.3	1,292,301.77	3,142,711.55	40.134628	-104.989607

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
350.0	350.0	Fox Hills - BASE				
4,396.3	4,382.0	Sussex				
4,642.3	4,627.0	Sussex Marker				
4,924.4	4,908.0	Shannon				
6,522.9	6,500.0	Teepee Buttes (*if present)				
7,242.6	7,213.0	Sharon Springs				
7,336.6	7,298.0	Niobrara				
7,413.4	7,362.0	B Chalk				
7,450.8	7,391.0	B Marl				
7,530.0	7,447.0	C Chalk				
7,571.2	7,473.0	C Marl				
7,756.3	7,559.0	Ft. Hayes				
7,835.5	7,579.0	Codell				

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Jillson-East Rinn 3H-22H-N268
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 5000.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 5000.0ft (Original Well Elev)
Site:	S22-T2N-R68W (Jillson-East Rinn)	North Reference:	True
Well:	Jillson-East Rinn 3H-22H-N268	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #2		

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
500.0	500.0	0.0	0.0	KOP @ 500'
1,014.4	1,013.7	-9.7	20.9	EOB; Inc=5.14°
7,020.5	6,995.6	-235.9	509.7	Start build/turn @ 7020' MD
7,942.9	7,589.0	337.4	547.7	LP @ 7589' TVD; 90°
13,812.9	7,589.0	6,206.5	445.3	Start turn @ 13812' MD
14,243.6	7,589.0	6,637.1	449.9	End of turn @ 14243' MD
15,326.4	7,589.0	7,719.1	492.1	TD at 15326.4

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

S22-T2N-R68W (Jillson-East Rinn)

Jillson-East Rinn 3H-22H-N268

Hz

Plan #2

Anticollision Report

16 July, 2013

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3H-22H-N268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5000.0ft (Original Well Elev)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	WELL @ 5000.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3H-22H-N268	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 500.0ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program		Date	7/16/2013		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.0	15,326.4	Plan #2 (Hz)	Geolink MWD	Geolink MWD	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3H-22H-N268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5000.0ft (Original Well Elev)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	WELL @ 5000.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3H-22H-N268	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						Out of range
ANDERSON 31-22 (EXISTING) - KERR-MCGEE WELL						Out of range
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						Out of range
EAST RINN 15-12 (EXISTING) AL - VESSELS WELL - N						Out of range
EAST RINN 15-14 (EXISTING) AL - VESSELS WELL - N						Out of range
EAST RINN 23-15 (EXISTING) - ENCANA WELL - SURV						Out of range
EAST RINN 24-15 (EXISTING) - ENCANA WELL - SURV	13,276.9	7,825.1	475.9	340.7	3.520	CC, ES
EAST RINN 24-15 (EXISTING) - ENCANA WELL - SURV	13,300.0	7,825.3	476.5	340.8	3.513	SF
EAST RINN 2-4-15 (EXISTING) - ENCANA WELL - SUR						Out of range
EAST RINN 2-8-15 (EXISTING) - ENCANA WELL - SUR						Out of range
EAST RINN 3-6-15 (EXISTING) - ENCANA WELL - SUR						Out of range
EAST RINN H UNIT 1 (EXISTING) - ENCANA WELL - N						Out of range
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	11,345.2	7,707.3	118.4	35.6	1.430	Level 3, CC, ES, SF
Haley 8-4-22 - DD - Plan #1						Out of range
HOPPER 23-15 (EXISTING) - KERR-MCGEE WELL - SU	14,043.8	7,594.2	170.7	36.9	1.276	Level 3, CC, ES, SF
JILLSON 0-6-22 (EXISTING) - ENCANA WELL - SURVE						Out of range
JILLSON 11-22 (EXISTING) - ENCANA WELL - NO SUR						Out of range
JILLSON 1-22 (EXISTING) - ENCANA WELL - NO SURV						Out of range
JILLSON 12-22 (EXISTING) - ENCANA WELL - NO SUR						Out of range
JILLSON 14-22 (EXISTING) - ENCANA WELL - NO SUR						Out of range
JILLSON 21-22 (EXISTING) - ENCANA WELL - NO SUR	12,199.0	7,488.0	455.6	359.4	4.734	CC
JILLSON 21-22 (EXISTING) - ENCANA WELL - NO SUR	12,200.0	7,488.0	455.6	359.4	4.733	ES, SF
JILLSON 22-22 (EXISTING) - ENCANA WELL - NO SUR						Out of range
JILLSON 2-8-22 (EXISTING) - ENCANA WELL - SURVE						Out of range
JILLSON 3 (EXISTING) - FOUNDATION WELL - NO SU						Out of range
JILLSON 4-6-22 (EXISTING) - ENCANA WELL - SURVE	8,638.2	7,687.4	98.3	60.2	2.581	CC, ES, SF
JILLSON 4-8-22 (EXISTING) - ENCANA WELL - SURVE	5,400.0	5,530.8	79.1	44.7	2.299	SF
JILLSON 4-8-22 (EXISTING) - ENCANA WELL - SURVE	5,481.4	5,612.0	78.8	44.6	2.301	CC, ES
JILLSON 6 (EXISTING) - FOUNDATION WELL - NO SU	500.0	472.0	418.3	416.6	253.037	CC, ES
JILLSON 6 (EXISTING) - FOUNDATION WELL - NO SU	1,900.0	1,867.7	494.1	487.3	73.457	SF
JILLSON GAS UNIT 1 (EXISTING) - ENCANA WELL - N						Out of range
Jillson-East Rinn 3A-22H-M268 - Hz - Plan #1						Out of range
Jillson-East Rinn 3B-22H-M268 - Hz - Plan #1						Out of range
Jillson-East Rinn 3C-22H-M268 - Hz - Plan #1						Out of range
Jillson-East Rinn 3D-22H-M268 - Hz - Plan #1						Out of range
Jillson-East Rinn 3E-22H-N268 - Hz - Plan #1	200.0	200.0	30.8	30.2	50.361	CC, ES
Jillson-East Rinn 3E-22H-N268 - Hz - Plan #1	600.0	597.3	44.7	42.7	22.302	SF
Jillson-East Rinn 3F-22H-N268 - Hz - Plan #1	300.0	300.0	22.4	21.4	23.308	CC, ES
Jillson-East Rinn 3F-22H-N268 - Hz - Plan #1	600.0	598.9	29.6	27.6	14.737	SF
Jillson-East Rinn 3G-22H-N268 - Hz - Plan #1	500.0	500.0	11.2	9.5	6.747	CC, ES
Jillson-East Rinn 3G-22H-N268 - Hz - Plan #1	15,326.9	15,076.2	454.9	211.5	1.869	SF
NYGREN 12-22 (EXISTING) - KERR-MCGEE WELL - N						Out of range

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 3H-22H-N268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5000.0ft (Original Well Elev)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	WELL @ 5000.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3H-22H-N268	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													Offset Site Error:	0.0 ft	
Survey Program: 106-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)					
13,200.0	7,589.0	7,824.2	7,476.3	101.0	34.0	-89.86	5,662.3	-21.2	482.1	348.2	133.87	3.601			
13,276.9	7,589.0	7,825.1	7,477.2	102.4	34.0	-89.96	5,662.3	-21.2	475.9	340.7	135.21	3.520 CC, ES			
13,300.0	7,589.0	7,825.3	7,477.5	102.8	34.0	-90.00	5,662.3	-21.2	476.5	340.8	135.61	3.513 SF			
13,400.0	7,589.0	7,826.5	7,478.6	104.5	34.0	-90.14	5,662.3	-21.2	491.6	354.2	137.35	3.579			

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3H-22H-N268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5000.0ft (Original Well Elev)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	WELL @ 5000.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3H-22H-N268	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) - Haley 4-2-22 - DD - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-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	7,589.0	7,707.3	7,546.0	61.6	28.0	90.00	3,741.2	606.8	460.6	385.5	75.16	6.129		
11,000.0	7,589.0	7,707.3	7,546.0	63.2	28.0	90.00	3,741.2	606.8	364.9	288.0	76.87	4.747		
11,100.0	7,589.0	7,707.3	7,546.0	64.9	28.0	90.00	3,741.2	606.8	272.3	193.7	78.59	3.464		
11,200.0	7,589.0	7,707.3	7,546.0	66.6	28.0	90.00	3,741.2	606.8	187.3	107.0	80.31	2.333		
11,300.0	7,589.0	7,707.3	7,546.0	68.3	28.0	90.00	3,741.2	606.8	126.8	44.7	82.03	1.545		
11,345.2	7,589.0	7,707.3	7,546.0	69.1	28.0	90.00	3,741.2	606.8	118.4	35.6	82.81	1.430	Level 3, CC, ES, SF	
11,400.0	7,589.0	7,707.3	7,546.0	70.0	28.0	90.00	3,741.2	606.8	130.5	46.8	83.75	1.559		
11,500.0	7,589.0	7,707.3	7,546.0	71.8	28.0	90.00	3,741.2	606.8	195.0	109.5	85.47	2.281		
11,600.0	7,589.0	7,707.3	7,546.0	73.5	28.0	90.00	3,741.2	606.8	281.0	193.8	87.20	3.223		
11,700.0	7,589.0	7,707.3	7,546.0	75.2	28.0	90.00	3,741.2	606.8	374.1	285.2	88.92	4.207		
11,800.0	7,589.0	7,707.3	7,546.0	76.9	28.0	90.00	3,741.2	606.8	470.0	379.4	90.65	5.185		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3H-22H-N268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5000.0ft (Original Well Elev)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	WELL @ 5000.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3H-22H-N268	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													Offset Site Error:	0.0 ft
S22-T2N-R68W (Jillson-East Rinn) - HOPPER 23-15 (EXISTING) - KERR-MCGEE WELL - SURVEYS													Offset Well Error:	0.0 ft
Survey Program: 644-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
13,600.0	7,589.0	7,594.3	7,533.0	108.0	19.2	90.34	6,435.3	615.4	472.0	346.3	125.70	3.755		
13,700.0	7,589.0	7,594.2	7,533.0	109.7	19.2	90.33	6,435.3	615.4	380.8	253.4	127.44	2.988		
13,800.0	7,589.0	7,594.2	7,533.0	111.4	19.2	90.33	6,435.3	615.4	295.4	166.2	129.18	2.287		
13,900.0	7,589.0	7,594.2	7,533.0	113.2	19.2	90.33	6,435.3	615.4	222.2	91.1	131.07	1.695		
14,000.0	7,589.0	7,594.2	7,533.0	114.9	19.2	90.33	6,435.3	615.4	176.1	43.1	132.97	1.324	Level 3	
14,043.8	7,589.0	7,594.2	7,533.0	115.7	19.2	90.32	6,435.3	615.4	170.7	36.9	133.79	1.276	Level 3, CC, ES, SF	
14,100.0	7,589.0	7,594.2	7,532.9	116.6	19.2	90.32	6,435.3	615.4	179.5	44.6	134.84	1.331	Level 3	
14,200.0	7,589.0	7,594.1	7,532.9	118.4	19.2	90.30	6,435.3	615.4	230.1	93.4	136.70	1.683		
14,300.0	7,589.0	7,594.1	7,532.9	120.1	19.2	90.29	6,435.3	615.4	305.5	167.0	138.48	2.206		
14,400.0	7,589.0	7,594.1	7,532.8	121.9	19.2	90.28	6,435.3	615.4	392.0	251.7	140.23	2.795		
14,500.0	7,589.0	7,594.0	7,532.8	123.6	19.2	90.26	6,435.3	615.4	483.7	341.7	141.97	3.407		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3H-22H-N268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5000.0ft (Original Well Elev)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	WELL @ 5000.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3H-22H-N268	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													Offset Site Error:	0.0 ft	
Survey Program: 8100-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		
12,000.0	7,589.0	7,488.0	7,488.0	80.3	13.1	-90.00	4,584.8	17.9	497.2	404.4	92.80	5.358			
12,100.0	7,589.0	7,488.0	7,488.0	82.0	13.1	-90.00	4,584.8	17.9	466.3	371.7	94.53	4.932			
12,199.0	7,589.0	7,488.0	7,488.0	83.7	13.1	-90.00	4,584.8	17.9	455.6	359.4	96.24	4.734	CC		
12,200.0	7,589.0	7,488.0	7,488.0	83.8	13.1	-90.00	4,584.8	17.9	455.6	359.4	96.26	4.733	ES, SF		
12,300.0	7,589.0	7,488.0	7,488.0	85.5	13.1	-90.00	4,584.8	17.9	466.7	368.7	97.99	4.763			
12,400.0	7,589.0	7,488.0	7,488.0	87.2	13.1	-90.00	4,584.8	17.9	498.0	398.3	99.73	4.994			

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3H-22H-N268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5000.0ft (Original Well Elev)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	WELL @ 5000.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3H-22H-N268	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													Offset Site Error:	0.0 ft	
Survey Program: 103-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)					
8,200.0	7,589.0	7,685.0	7,566.9	20.3	21.4	-88.62	1,030.8	437.3	449.1	416.9	32.16	13.963			
8,300.0	7,589.0	7,685.6	7,567.5	21.3	21.4	-88.94	1,030.8	437.3	352.2	318.8	33.40	10.544			
8,400.0	7,589.0	7,686.1	7,568.0	22.5	21.4	-89.26	1,030.8	437.3	257.7	222.9	34.72	7.422			
8,500.0	7,589.0	7,686.7	7,568.6	23.8	21.4	-89.58	1,030.8	437.3	169.6	133.5	36.09	4.698			
8,600.0	7,589.0	7,687.2	7,569.1	25.1	21.4	-89.91	1,030.8	437.3	105.5	67.9	37.52	2.810			
8,638.2	7,589.0	7,687.4	7,569.4	25.6	21.4	-90.03	1,030.8	437.3	98.3	60.2	38.09	2.581	CC, ES, SF		
8,700.0	7,589.0	7,687.8	7,569.7	26.4	21.4	-90.23	1,030.8	437.3	116.1	77.1	39.00	2.978			
8,800.0	7,589.0	7,688.3	7,570.3	27.8	21.4	-90.56	1,030.8	437.3	189.3	148.8	40.50	4.675			
8,900.0	7,589.0	7,688.9	7,570.8	29.3	21.4	-90.89	1,030.9	437.3	279.7	237.6	42.04	6.653			
9,000.0	7,589.0	7,689.5	7,571.4	30.7	21.4	-91.22	1,030.9	437.3	374.9	331.3	43.60	8.600			
9,100.0	7,589.0	7,690.0	7,572.0	32.2	21.4	-91.54	1,030.9	437.3	472.2	427.0	45.18	10.452			

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 3H-22H-N268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5000.0ft (Original Well Elev)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	WELL @ 5000.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3H-22H-N268	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													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			
2,600.0	2,592.9	2,791.1	2,707.3	5.4	12.2	-123.60	391.0	88.3	483.5	468.4	15.16	31.889			
2,700.0	2,692.5	2,895.6	2,806.5	5.6	12.8	-122.82	363.6	106.3	459.7	443.9	15.79	29.118			
2,800.0	2,792.1	2,989.7	2,895.5	5.9	13.3	-121.92	338.4	123.3	435.4	419.0	16.42	26.519			
2,900.0	2,891.7	3,080.4	2,981.7	6.1	13.8	-120.89	315.7	140.2	412.7	395.6	17.07	24.173			
3,000.0	2,991.3	3,178.6	3,075.0	6.3	14.4	-119.68	290.9	158.2	390.2	372.4	17.79	21.936			
3,100.0	3,090.9	3,271.1	3,163.2	6.5	14.8	-118.43	268.4	174.9	368.7	350.2	18.50	19.930			
3,200.0	3,190.5	3,363.4	3,251.4	6.8	15.3	-117.10	247.0	191.3	348.5	329.3	19.22	18.131			
3,300.0	3,290.1	3,457.0	3,341.4	7.0	15.8	-115.78	226.7	206.9	330.2	310.2	19.96	16.547			
3,400.0	3,389.7	3,558.4	3,439.1	7.2	16.3	-114.20	205.0	223.7	312.4	291.6	20.75	15.053			
3,500.0	3,489.3	3,660.7	3,537.4	7.5	16.8	-112.75	181.4	238.8	293.1	271.6	21.52	13.620			
3,600.0	3,588.9	3,758.9	3,631.7	7.7	17.3	-111.12	158.0	253.5	273.2	250.9	22.33	12.233			
3,700.0	3,688.5	3,854.6	3,723.4	7.9	17.8	-108.93	135.6	269.4	254.2	230.9	23.26	10.927			
3,800.0	3,788.1	3,957.4	3,821.4	8.2	18.3	-106.08	110.2	286.6	234.3	209.9	24.31	9.635			
3,900.0	3,887.7	4,055.5	3,915.2	8.4	18.8	-103.15	85.6	302.0	214.5	189.1	25.35	8.460			
4,000.0	3,987.3	4,159.5	4,013.7	8.7	19.4	-98.83	57.2	319.5	193.3	166.7	26.63	7.261			
4,100.0	4,086.9	4,256.5	4,104.7	8.9	20.0	-93.47	27.9	335.8	170.7	142.8	27.92	6.114			
4,200.0	4,186.5	4,351.6	4,194.8	9.1	20.5	-87.87	0.9	349.4	150.4	121.4	29.06	5.176			
4,300.0	4,286.1	4,444.8	4,284.2	9.4	20.9	-82.22	-22.9	361.0	133.5	103.5	30.01	4.448			
4,400.0	4,385.7	4,541.0	4,377.6	9.6	21.3	-76.82	-43.4	371.2	120.5	89.8	30.74	3.921			
4,500.0	4,485.3	4,638.3	4,473.0	9.8	21.6	-72.19	-60.7	379.5	110.1	78.8	31.26	3.522			
4,600.0	4,584.9	4,736.9	4,570.1	10.1	21.9	-68.18	-75.8	386.5	101.1	69.4	31.66	3.194			
4,700.0	4,684.5	4,834.5	4,666.8	10.3	22.2	-64.67	-88.6	393.2	94.0	62.0	31.95	2.942			
4,800.0	4,784.1	4,932.0	4,763.6	10.5	22.4	-62.80	-97.5	399.4	89.2	57.0	32.25	2.766			
4,900.0	4,883.7	5,030.4	4,861.7	10.8	22.6	-63.14	-102.0	405.5	87.2	54.5	32.65	2.670			
5,000.0	4,983.3	5,130.6	4,961.8	11.0	22.7	-66.19	-103.2	409.6	85.8	52.5	33.21	2.582			
5,100.0	5,082.9	5,231.1	5,062.2	11.2	22.8	-70.20	-103.8	412.4	84.0	50.3	33.73	2.490			
5,200.0	5,182.4	5,331.4	5,162.5	11.5	22.9	-74.86	-104.6	414.2	82.0	47.8	34.14	2.400			
5,300.0	5,282.0	5,431.1	5,262.3	11.7	22.9	-80.10	-105.2	415.4	80.2	45.8	34.39	2.332			
5,400.0	5,381.6	5,530.8	5,362.0	11.9	23.0	-85.79	-105.7	416.2	79.1	44.7	34.41	2.299 SF			
5,481.4	5,462.7	5,612.0	5,443.1	12.1	23.1	-90.56	-106.1	416.9	78.8	44.6	34.27	2.301 CC, ES			
5,500.0	5,481.2	5,630.5	5,461.6	12.2	23.1	-91.65	-106.2	417.0	78.9	44.6	34.21	2.305			
5,600.0	5,580.8	5,730.2	5,561.3	12.4	23.2	-97.48	-106.6	417.7	79.4	45.6	33.79	2.351			
5,700.0	5,680.4	5,829.8	5,661.0	12.6	23.3	-103.17	-107.0	418.5	80.8	47.6	33.18	2.435			
5,800.0	5,780.0	5,929.5	5,760.6	12.9	23.4	-108.63	-107.5	419.3	83.0	50.5	32.45	2.557			
5,900.0	5,879.6	6,029.2	5,860.3	13.1	23.5	-113.76	-107.9	420.0	85.8	54.2	31.64	2.712			
6,000.0	5,979.2	6,128.9	5,960.0	13.3	23.6	-118.53	-108.3	420.8	89.3	58.5	30.82	2.899			
6,100.0	6,078.8	6,228.5	6,059.6	13.6	23.7	-122.91	-108.8	421.5	93.4	63.4	30.03	3.111			
6,200.0	6,178.4	6,328.2	6,159.3	13.8	23.8	-126.91	-109.2	422.3	98.0	68.7	29.31	3.344			
6,300.0	6,278.0	6,427.9	6,259.0	14.0	23.9	-130.53	-109.6	423.0	103.0	74.3	28.68	3.592			
6,400.0	6,377.6	6,527.5	6,358.6	14.3	24.0	-133.81	-110.1	423.8	108.4	80.3	28.15	3.852			
6,500.0	6,477.2	6,627.2	6,458.3	14.5	24.1	-136.77	-110.5	424.5	114.1	86.4	27.72	4.117			
6,600.0	6,576.8	6,726.9	6,558.0	14.7	24.2	-139.44	-110.9	425.3	120.1	92.7	27.39	4.386			
6,700.0	6,676.4	6,826.6	6,657.6	15.0	24.3	-141.85	-111.4	426.0	126.3	99.2	27.15	4.653			
6,800.0	6,776.0	6,926.2	6,757.3	15.2	24.4	-144.04	-111.8	426.8	132.8	105.8	27.00	4.918			
6,900.0	6,875.6	7,025.9	6,857.0	15.4	24.5	-146.02	-112.3	427.5	139.4	112.4	26.92	5.177			
7,000.0	6,975.2	7,125.6	6,956.6	15.7	24.6	-147.82	-112.7	428.3	146.1	119.2	26.90	5.431			
7,100.0	7,074.8	7,225.2	7,056.2	15.9	24.7	-73.98	-113.1	429.0	148.4	121.9	26.52	5.597			
7,200.0	7,172.6	7,323.0	7,154.0	16.0	24.8	-59.05	-113.5	429.8	138.0	112.5	25.48	5.415			
7,300.0	7,265.7	7,416.0	7,247.0	16.0	24.9	-67.86	-114.0	430.5	119.5	93.3	26.18	4.564			
7,400.0	7,351.3	7,501.4	7,332.4	16.1	25.0	-88.62	-114.3	431.1	106.4	75.4	30.96	3.436			
7,408.9	7,358.4	7,508.5	7,339.6	16.1	25.0	-90.76	-114.4	431.2	106.3	74.8	31.44	3.379			
7,500.0	7,426.7	7,576.6	7,407.6	16.2	25.0	-111.09	-114.7	431.7	121.5	87.1	34.35	3.536			

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 3H-22H-N268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5000.0ft (Original Well Elev)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	WELL @ 5000.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3H-22H-N268	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													Offset Site Error:	0.0 ft
S22-T2N-R68W (Jillson-East Rinn) - JILLSON 4-8-22 (EXISTING) - ENCANA WELL - SURVEYS													Offset Well Error:	0.0 ft
Survey Program: 73-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
7,600.0	7,489.8	7,639.3	7,470.3	16.3	25.1	-124.81	-114.9	432.2	171.9	138.5	33.47	5.137		
7,700.0	7,538.5	7,687.6	7,518.7	16.6	25.2	-128.92	-115.1	432.5	245.5	213.8	31.66	7.754		
7,800.0	7,571.3	7,720.1	7,551.2	17.1	25.2	-123.52	-115.3	432.8	332.1	300.5	31.62	10.505		
7,900.0	7,587.4	7,735.7	7,566.8	17.7	25.2	-103.81	-115.3	432.9	425.8	391.5	34.29	12.420		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3H-22H-N268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5000.0ft (Original Well Elev)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	WELL @ 5000.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3H-22H-N268	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													Offset Site Error:	0.0 ft
S22-T2N-R68W (Jillson-East Rinn) - JILLSON 6 (EXISTING) - FOUNDATION WELL - NO SURVEYS													Offset Well Error:	0.0 ft
Survey Program: 5060-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	-18.32	397.1	-131.4	419.2					
100.0	100.0	72.0	72.0	0.1	0.1	-18.32	397.1	-131.4	418.3	418.0	0.26	1,629.033		
200.0	200.0	172.0	172.0	0.3	0.3	-18.32	397.1	-131.4	418.3	417.7	0.61	690.420		
300.0	300.0	272.0	272.0	0.5	0.5	-18.32	397.1	-131.4	418.3	417.3	0.95	438.034		
400.0	400.0	372.0	372.0	0.7	0.6	-18.32	397.1	-131.4	418.3	417.0	1.30	320.774		
500.0	500.0	472.0	472.0	0.8	0.8	-18.32	397.1	-131.4	418.3	416.6	1.65	253.037	CC, ES	
600.0	600.0	572.0	572.0	1.0	1.0	-133.24	397.1	-131.4	418.9	416.9	2.00	209.203		
700.0	700.0	672.0	672.0	1.2	1.2	-133.48	397.1	-131.4	420.7	418.3	2.35	178.815		
800.0	799.9	771.9	771.9	1.4	1.3	-133.89	397.1	-131.4	423.7	421.0	2.71	156.608		
900.0	899.7	871.7	871.7	1.6	1.5	-134.45	397.1	-131.4	427.9	424.9	3.06	139.751		
1,000.0	999.4	971.4	971.4	1.8	1.7	-135.15	397.1	-131.4	433.5	430.1	3.42	126.594		
1,100.0	1,099.0	1,071.0	1,071.0	2.0	1.9	-135.96	397.1	-131.4	439.9	436.1	3.79	116.068		
1,200.0	1,198.6	1,170.6	1,170.6	2.2	2.0	-136.76	397.1	-131.4	446.4	442.2	4.16	107.380		
1,300.0	1,298.2	1,270.2	1,270.2	2.4	2.2	-137.54	397.1	-131.4	453.0	448.4	4.52	100.108		
1,400.0	1,397.8	1,369.8	1,369.8	2.6	2.4	-138.29	397.1	-131.4	459.6	454.7	4.89	93.944		
1,500.0	1,497.4	1,469.4	1,469.4	2.9	2.6	-139.02	397.1	-131.4	466.4	461.1	5.26	88.659		
1,600.0	1,597.0	1,569.0	1,569.0	3.1	2.7	-139.73	397.1	-131.4	473.2	467.6	5.63	84.084		
1,700.0	1,696.5	1,668.5	1,668.5	3.3	2.9	-140.42	397.1	-131.4	480.1	474.1	5.99	80.089		
1,800.0	1,796.1	1,768.1	1,768.1	3.5	3.1	-141.09	397.1	-131.4	487.0	480.7	6.36	76.573		
1,900.0	1,895.7	1,867.7	1,867.7	3.8	3.3	-141.75	397.1	-131.4	494.1	487.3	6.73	73.457	SF	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3H-22H-N268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5000.0ft (Original Well Elev)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	WELL @ 5000.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3H-22H-N268	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													Offset Site Error:	0.0 ft
S22-T2N-R68W (Jillson-East Rinn) - Jillson-East Rinn 3E-22H-N268 - Hz - Plan #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	-89.98	0.0	-30.8	30.8					
100.0	100.0	100.0	100.0	0.1	0.1	-89.98	0.0	-30.8	30.8	30.5	0.26	117.509		
200.0	200.0	200.0	200.0	0.3	0.3	-89.98	0.0	-30.8	30.8	30.2	0.61	50.361 CC, ES		
300.0	300.0	299.5	299.5	0.5	0.5	-90.55	-0.3	-31.6	31.6	30.6	0.96	32.890		
400.0	400.0	398.9	398.9	0.7	0.7	-92.09	-1.2	-34.0	34.0	32.7	1.31	25.904		
500.0	500.0	498.2	498.1	0.8	0.8	-94.23	-2.8	-38.0	38.1	36.5	1.67	22.782		
600.0	600.0	597.3	597.0	1.0	1.0	149.17	-5.0	-43.6	44.7	42.7	2.01	22.302 SF		
700.0	700.0	696.0	695.4	1.2	1.3	148.37	-7.8	-50.8	54.5	52.1	2.35	23.141		
800.0	799.9	794.6	793.5	1.4	1.5	148.24	-11.2	-59.4	67.3	64.5	2.70	24.863		
900.0	899.7	893.5	892.0	1.6	1.7	148.72	-14.6	-68.3	81.8	78.8	3.06	26.748		
1,000.0	999.4	992.2	990.2	1.8	1.9	149.55	-18.1	-77.2	97.9	94.4	3.42	28.654		
1,100.0	1,099.0	1,090.7	1,088.3	2.0	2.2	150.47	-21.6	-86.1	114.9	111.1	3.78	30.420		
1,200.0	1,198.6	1,189.3	1,186.4	2.2	2.4	151.17	-25.1	-95.1	131.9	127.8	4.14	31.874		
1,300.0	1,298.2	1,287.8	1,284.4	2.4	2.6	151.71	-28.6	-104.0	149.0	144.5	4.50	33.090		
1,400.0	1,397.8	1,386.3	1,382.5	2.6	2.9	152.13	-32.0	-112.9	166.1	161.2	4.87	34.122		
1,500.0	1,497.4	1,484.8	1,480.5	2.9	3.1	152.48	-35.5	-121.8	183.2	177.9	5.23	35.009		
1,600.0	1,597.0	1,583.4	1,578.6	3.1	3.4	152.77	-39.0	-130.7	200.3	194.7	5.60	35.778		
1,700.0	1,696.5	1,681.9	1,676.6	3.3	3.6	153.01	-42.5	-139.6	217.4	211.4	5.96	36.452		
1,800.0	1,796.1	1,780.4	1,774.7	3.5	3.8	153.22	-45.9	-148.5	234.4	228.1	6.33	37.047		
1,900.0	1,895.7	1,878.9	1,872.8	3.8	4.1	153.40	-49.4	-157.4	251.6	244.9	6.69	37.577		
2,000.0	1,995.3	1,977.5	1,970.8	4.0	4.3	153.56	-52.9	-166.3	268.7	261.6	7.06	38.050		
2,100.0	2,094.9	2,076.0	2,068.9	4.2	4.5	153.69	-56.4	-175.2	285.8	278.3	7.43	38.477		
2,200.0	2,194.5	2,174.5	2,166.9	4.5	4.8	153.82	-59.9	-184.1	302.9	295.1	7.79	38.863		
2,300.0	2,294.1	2,273.0	2,265.0	4.7	5.0	153.93	-63.3	-193.1	320.0	311.8	8.16	39.214		
2,400.0	2,393.7	2,371.6	2,363.1	4.9	5.3	154.02	-66.8	-202.0	337.1	328.6	8.53	39.534		
2,500.0	2,493.3	2,470.1	2,461.1	5.2	5.5	154.11	-70.3	-210.9	354.2	345.3	8.89	39.828		
2,600.0	2,592.9	2,568.6	2,559.2	5.4	5.7	154.19	-73.8	-219.8	371.3	362.0	9.26	40.098		
2,700.0	2,692.5	2,667.1	2,657.2	5.6	6.0	154.27	-77.2	-228.7	388.4	378.8	9.63	40.348		
2,800.0	2,792.1	2,765.7	2,755.3	5.9	6.2	154.33	-80.7	-237.6	405.5	395.5	9.99	40.579		
2,900.0	2,891.7	2,864.2	2,853.4	6.1	6.5	154.40	-84.2	-246.5	422.6	412.3	10.36	40.793		
3,000.0	2,991.3	2,962.7	2,951.4	6.3	6.7	154.45	-87.7	-255.4	439.7	429.0	10.73	40.993		
3,100.0	3,090.9	3,061.2	3,049.5	6.5	6.9	154.51	-91.1	-264.3	456.9	445.8	11.09	41.179		
3,200.0	3,190.5	3,159.8	3,147.5	6.8	7.2	154.55	-94.6	-273.2	474.0	462.5	11.46	41.354		
3,300.0	3,290.1	3,258.3	3,245.6	7.0	7.4	154.60	-98.1	-282.1	491.1	479.3	11.83	41.517		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3H-22H-N268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5000.0ft (Original Well Elev)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	WELL @ 5000.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3H-22H-N268	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													Offset Site Error:	0.0 ft
S22-T2N-R68W (Jillson-East Rinn) - Jillson-East Rinn 3F-22H-N268 - Hz - Plan #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
Reference				Offset			Semi Major Axis			Distance				
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	-89.98	0.0	-22.4	22.4					
100.0	100.0	100.0	100.0	0.1	0.1	-89.98	0.0	-22.4	22.4	22.1	0.26	85.461		
200.0	200.0	200.0	200.0	0.3	0.3	-89.98	0.0	-22.4	22.4	21.8	0.61	36.626		
300.0	300.0	300.0	300.0	0.5	0.5	-89.98	0.0	-22.4	22.4	21.4	0.96	23.308	CC, ES	
400.0	400.0	399.7	399.7	0.7	0.7	-91.32	-0.5	-23.1	23.1	21.8	1.31	17.616		
500.0	500.0	499.3	499.3	0.8	0.8	-94.89	-2.1	-25.1	25.2	23.5	1.66	15.160		
600.0	600.0	598.9	598.7	1.0	1.0	146.49	-4.8	-28.5	29.6	27.6	2.01	14.737	SF	
700.0	700.0	698.7	698.4	1.2	1.2	144.93	-7.8	-32.2	36.0	33.6	2.36	15.252		
800.0	799.9	798.4	798.0	1.4	1.4	145.17	-10.8	-36.0	43.8	41.1	2.71	16.152		
900.0	899.7	897.9	897.4	1.6	1.6	146.39	-13.8	-39.8	53.1	50.0	3.07	17.298		
1,000.0	999.4	997.3	996.7	1.8	1.8	148.08	-16.8	-43.6	63.9	60.4	3.43	18.625		
1,100.0	1,099.0	1,096.6	1,095.9	2.0	2.0	149.74	-19.8	-47.3	75.6	71.8	3.79	19.945		
1,200.0	1,198.6	1,195.9	1,195.1	2.2	2.2	150.96	-22.8	-51.1	87.4	83.3	4.15	21.045		
1,300.0	1,298.2	1,295.2	1,294.2	2.4	2.3	151.90	-25.8	-54.9	99.3	94.8	4.52	21.973		
1,400.0	1,397.8	1,394.5	1,393.4	2.6	2.5	152.63	-28.8	-58.6	111.1	106.3	4.88	22.765		
1,500.0	1,497.4	1,493.8	1,492.6	2.9	2.7	153.23	-31.7	-62.4	123.0	117.8	5.25	23.450		
1,600.0	1,597.0	1,593.0	1,591.7	3.1	2.9	153.71	-34.7	-66.2	134.9	129.3	5.61	24.047		
1,700.0	1,696.5	1,692.3	1,690.9	3.3	3.1	154.12	-37.7	-70.0	146.8	140.8	5.97	24.572		
1,800.0	1,796.1	1,791.6	1,790.1	3.5	3.3	154.47	-40.7	-73.7	158.7	152.4	6.34	25.037		
1,900.0	1,895.7	1,890.9	1,889.2	3.8	3.5	154.77	-43.7	-77.5	170.6	163.9	6.70	25.453		
2,000.0	1,995.3	1,990.2	1,988.4	4.0	3.7	155.03	-46.7	-81.3	182.5	175.5	7.07	25.825		
2,100.0	2,094.9	2,089.5	2,087.6	4.2	3.9	155.26	-49.7	-85.0	194.5	187.0	7.43	26.162		
2,200.0	2,194.5	2,188.7	2,186.7	4.5	4.1	155.46	-52.7	-88.8	206.4	198.6	7.80	26.467		
2,300.0	2,294.1	2,288.0	2,285.9	4.7	4.3	155.64	-55.6	-92.6	218.3	210.1	8.16	26.745		
2,400.0	2,393.7	2,387.3	2,385.1	4.9	4.5	155.80	-58.6	-96.3	230.2	221.7	8.53	26.999		
2,500.0	2,493.3	2,486.6	2,484.3	5.2	4.6	155.95	-61.6	-100.1	242.1	233.2	8.89	27.233		
2,600.0	2,592.9	2,585.9	2,583.4	5.4	4.8	156.08	-64.6	-103.9	254.1	244.8	9.26	27.448		
2,700.0	2,692.5	2,685.2	2,682.6	5.6	5.0	156.20	-67.6	-107.6	266.0	256.4	9.62	27.647		
2,800.0	2,792.1	2,784.5	2,781.8	5.9	5.2	156.31	-70.6	-111.4	277.9	267.9	9.99	27.831		
2,900.0	2,891.7	2,883.7	2,880.9	6.1	5.4	156.41	-73.6	-115.2	289.8	279.5	10.35	28.003		
3,000.0	2,991.3	2,983.0	2,980.1	6.3	5.6	156.50	-76.6	-119.0	301.8	291.1	10.72	28.163		
3,100.0	3,090.9	3,082.3	3,079.3	6.5	5.8	156.59	-79.6	-122.7	313.7	302.6	11.08	28.312		
3,200.0	3,190.5	3,181.6	3,178.4	6.8	6.0	156.67	-82.5	-126.5	325.6	314.2	11.44	28.452		
3,300.0	3,290.1	3,280.9	3,277.6	7.0	6.2	156.74	-85.5	-130.3	337.6	325.8	11.81	28.583		
3,400.0	3,389.7	3,380.2	3,376.8	7.2	6.4	156.81	-88.5	-134.0	349.5	337.3	12.17	28.707		
3,500.0	3,489.3	3,479.4	3,475.9	7.5	6.6	156.88	-91.5	-137.8	361.4	348.9	12.54	28.823		
3,600.0	3,588.9	3,578.7	3,575.1	7.7	6.8	156.94	-94.5	-141.6	373.4	360.5	12.90	28.933		
3,700.0	3,688.5	3,678.0	3,674.3	7.9	7.0	156.99	-97.5	-145.3	385.3	372.0	13.27	29.036		
3,800.0	3,788.1	3,777.3	3,773.4	8.2	7.1	157.05	-100.5	-149.1	397.2	383.6	13.63	29.135		
3,900.0	3,887.7	3,876.6	3,872.6	8.4	7.3	157.10	-103.5	-152.9	409.2	395.2	14.00	29.228		
4,000.0	3,987.3	3,975.9	3,971.8	8.7	7.5	157.14	-106.4	-156.6	421.1	406.7	14.36	29.316		
4,100.0	4,086.9	4,075.2	4,070.9	8.9	7.7	157.19	-109.4	-160.4	433.0	418.3	14.73	29.400		
4,200.0	4,186.5	4,174.4	4,170.1	9.1	7.9	157.23	-112.4	-164.2	445.0	429.9	15.09	29.480		
4,300.0	4,286.1	4,273.7	4,269.3	9.4	8.1	157.27	-115.4	-167.9	456.9	441.4	15.46	29.556		
4,400.0	4,385.7	4,373.0	4,368.4	9.6	8.3	157.31	-118.4	-171.7	468.8	453.0	15.82	29.628		
4,500.0	4,485.3	4,472.3	4,467.6	9.8	8.5	157.34	-121.4	-175.5	480.8	464.6	16.19	29.698		
4,600.0	4,584.9	4,571.6	4,566.8	10.1	8.7	157.38	-124.4	-179.3	492.7	476.2	16.55	29.764		

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 3H-22H-N268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5000.0ft (Original Well Elev)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	WELL @ 5000.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3H-22H-N268	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 #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-89.96	0.0	-11.2	11.2					
100.0	100.0	100.0	100.0	0.1	0.1	-89.96	0.0	-11.2	11.2	10.9	0.26	42.731		
200.0	200.0	200.0	200.0	0.3	0.3	-89.96	0.0	-11.2	11.2	10.6	0.61	18.313		
300.0	300.0	300.0	300.0	0.5	0.5	-89.96	0.0	-11.2	11.2	10.2	0.96	11.654		
400.0	400.0	400.0	400.0	0.7	0.7	-89.96	0.0	-11.2	11.2	9.9	1.31	8.546		
500.0	500.0	500.0	500.0	0.8	0.8	-89.96	0.0	-11.2	11.2	9.5	1.66	6.747	CC, ES	
600.0	600.0	600.0	600.0	1.0	1.0	156.95	0.0	-11.2	12.0	10.0	2.01	5.971		
700.0	700.0	700.0	700.0	1.2	1.2	161.02	0.0	-11.2	14.4	12.1	2.36	6.125		
800.0	799.9	799.9	799.9	1.4	1.4	165.38	0.0	-11.2	18.6	15.9	2.70	6.882		
900.0	899.7	899.7	899.7	1.6	1.5	168.96	0.0	-11.2	24.6	21.5	3.05	8.051		
1,000.0	999.4	999.4	999.4	1.8	1.7	171.62	0.0	-11.2	32.3	28.9	3.40	9.509		
1,100.0	1,099.0	1,099.0	1,099.0	2.0	1.9	173.43	0.0	-11.2	41.2	37.4	3.74	10.995		
1,200.0	1,198.6	1,198.6	1,198.6	2.2	2.0	174.60	0.0	-11.2	50.1	46.0	4.09	12.239		
1,300.0	1,298.2	1,298.2	1,298.2	2.4	2.2	175.42	0.0	-11.2	59.0	54.6	4.44	13.291		
1,400.0	1,397.8	1,397.8	1,397.8	2.6	2.4	176.03	0.0	-11.2	68.0	63.2	4.79	14.192		
1,500.0	1,497.4	1,497.4	1,497.4	2.9	2.6	176.49	0.0	-11.2	76.9	71.8	5.14	14.972		
1,600.0	1,597.0	1,597.0	1,597.0	3.1	2.7	176.86	0.0	-11.2	85.9	80.4	5.49	15.654		
1,700.0	1,696.5	1,696.5	1,696.5	3.3	2.9	177.15	0.0	-11.2	94.8	89.0	5.83	16.255		
1,800.0	1,796.1	1,796.1	1,796.1	3.5	3.1	177.40	0.0	-11.2	103.8	97.6	6.18	16.789		
1,900.0	1,895.7	1,895.7	1,895.7	3.8	3.3	177.61	0.0	-11.2	112.7	106.2	6.53	17.266		
2,000.0	1,995.3	1,995.3	1,995.3	4.0	3.4	177.78	0.0	-11.2	121.7	114.8	6.88	17.694		
2,100.0	2,094.9	2,094.9	2,094.9	4.2	3.6	177.93	0.0	-11.2	130.7	123.4	7.23	18.082		
2,200.0	2,194.5	2,194.5	2,194.5	4.5	3.8	178.07	0.0	-11.2	139.6	132.0	7.57	18.434		
2,300.0	2,294.1	2,294.1	2,294.1	4.7	4.0	178.18	0.0	-11.2	148.6	140.7	7.92	18.756		
2,400.0	2,393.7	2,393.7	2,393.7	4.9	4.1	178.29	0.0	-11.2	157.5	149.3	8.27	19.050		
2,500.0	2,493.3	2,493.3	2,493.3	5.2	4.3	178.38	0.0	-11.2	166.5	157.9	8.62	19.321		
2,600.0	2,592.9	2,595.0	2,595.0	5.4	4.5	178.28	-0.7	-10.9	174.9	166.0	8.97	19.501		
2,700.0	2,692.5	2,697.0	2,696.9	5.6	4.7	177.79	-3.1	-9.9	182.1	172.8	9.32	19.530		
2,800.0	2,792.1	2,799.0	2,798.9	5.9	4.8	176.94	-7.2	-8.3	188.0	178.4	9.68	19.427		
2,900.0	2,891.7	2,899.7	2,899.4	6.1	5.0	175.84	-12.6	-6.1	193.1	183.0	10.03	19.238		
3,000.0	2,991.3	2,999.5	2,999.0	6.3	5.2	174.79	-18.0	-3.9	198.1	187.7	10.39	19.060		
3,100.0	3,090.9	3,099.3	3,098.7	6.5	5.4	173.78	-23.4	-1.7	203.1	192.4	10.75	18.896		
3,200.0	3,190.5	3,199.1	3,198.3	6.8	5.6	172.83	-28.8	0.5	208.3	197.2	11.11	18.745		
3,300.0	3,290.1	3,298.9	3,297.9	7.0	5.8	171.92	-34.3	2.7	213.5	202.0	11.47	18.604		
3,400.0	3,389.7	3,398.7	3,397.6	7.2	5.9	171.05	-39.7	4.9	218.7	206.9	11.84	18.474		
3,500.0	3,489.3	3,498.5	3,497.2	7.5	6.1	170.23	-45.1	7.0	224.0	211.8	12.20	18.353		
3,600.0	3,588.9	3,598.4	3,596.9	7.7	6.3	169.44	-50.5	9.2	229.3	216.7	12.57	18.239		
3,700.0	3,688.5	3,698.2	3,696.5	7.9	6.5	168.69	-55.9	11.4	234.7	221.8	12.94	18.133		
3,800.0	3,788.1	3,798.0	3,796.1	8.2	6.7	167.97	-61.4	13.6	240.1	226.8	13.31	18.034		
3,900.0	3,887.7	3,897.8	3,895.8	8.4	6.9	167.29	-66.8	15.8	245.6	231.9	13.69	17.940		
4,000.0	3,987.3	3,997.6	3,995.4	8.7	7.1	166.63	-72.2	18.0	251.0	237.0	14.06	17.852		
4,100.0	4,086.9	4,097.4	4,095.0	8.9	7.3	166.00	-77.6	20.2	256.5	242.1	14.44	17.769		
4,200.0	4,186.5	4,197.2	4,194.7	9.1	7.5	165.40	-83.0	22.4	262.1	247.3	14.81	17.691		
4,300.0	4,286.1	4,297.0	4,294.3	9.4	7.7	164.83	-88.4	24.6	267.7	252.5	15.19	17.617		
4,400.0	4,385.7	4,396.8	4,394.0	9.6	7.8	164.27	-93.9	26.8	273.2	257.7	15.57	17.547		
4,500.0	4,485.3	4,496.6	4,493.6	9.8	8.0	163.74	-99.3	29.0	278.9	262.9	15.95	17.481		
4,600.0	4,584.9	4,596.4	4,593.2	10.1	8.2	163.23	-104.7	31.2	284.5	268.2	16.33	17.418		
4,700.0	4,684.5	4,696.3	4,692.9	10.3	8.4	162.75	-110.1	33.3	290.2	273.5	16.72	17.358		
4,800.0	4,784.1	4,796.1	4,792.5	10.5	8.6	162.27	-115.5	35.5	295.9	278.8	17.10	17.301		
4,900.0	4,883.7	4,895.9	4,892.1	10.8	8.8	161.82	-121.0	37.7	301.6	284.1	17.48	17.247		
5,000.0	4,983.3	4,995.7	4,991.8	11.0	9.0	161.39	-126.4	39.9	307.3	289.4	17.87	17.196		
5,100.0	5,082.9	5,095.5	5,091.4	11.2	9.2	160.96	-131.8	42.1	313.0	294.8	18.26	17.146		

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 3H-22H-N268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5000.0ft (Original Well Elev)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	WELL @ 5000.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3H-22H-N268	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													Offset Site Error:	0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error:		0.0 ft
Reference: S22-T2N-R68W (Jillson-East Rinn) - Jillson-East Rinn 3G-22H-N268 - Hz - Plan #1															
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			
5,200.0	5,182.4	5,195.3	5,191.1	11.5	9.4	160.56	-137.2	44.3	318.8	300.1	18.64	17.099			
5,300.0	5,282.0	5,295.1	5,290.7	11.7	9.6	160.17	-142.6	46.5	324.5	305.5	19.03	17.055			
5,400.0	5,381.6	5,394.9	5,390.3	11.9	9.8	159.79	-148.1	48.7	330.3	310.9	19.42	17.012			
5,500.0	5,481.2	5,494.7	5,490.0	12.2	10.0	159.43	-153.5	50.9	336.1	316.3	19.81	16.971			
5,600.0	5,580.8	5,594.5	5,589.6	12.4	10.2	159.08	-158.9	53.1	341.9	321.7	20.20	16.931			
5,700.0	5,680.4	5,694.4	5,689.3	12.6	10.4	158.74	-164.3	55.3	347.8	327.2	20.59	16.893			
5,800.0	5,780.0	5,794.2	5,788.9	12.9	10.6	158.41	-169.7	57.4	353.6	332.6	20.98	16.857			
5,900.0	5,879.6	5,894.0	5,888.5	13.1	10.8	158.09	-175.2	59.6	359.4	338.1	21.37	16.823			
6,000.0	5,979.2	5,993.8	5,988.2	13.3	11.0	157.78	-180.6	61.8	365.3	343.5	21.76	16.789			
6,100.0	6,078.8	6,093.6	6,087.8	13.6	11.2	157.48	-186.0	64.0	371.2	349.0	22.15	16.757			
6,200.0	6,178.4	6,193.4	6,187.4	13.8	11.4	157.19	-191.4	66.2	377.0	354.5	22.54	16.726			
6,300.0	6,278.0	6,293.2	6,287.1	14.0	11.6	156.91	-196.8	68.4	382.9	360.0	22.93	16.697			
6,400.0	6,377.6	6,393.0	6,386.7	14.3	11.8	156.64	-202.3	70.6	388.8	365.5	23.33	16.668			
6,500.0	6,477.2	6,492.8	6,486.4	14.5	12.0	156.38	-207.7	72.8	394.7	371.0	23.72	16.640			
6,600.0	6,576.8	6,592.6	6,586.0	14.7	12.2	156.12	-213.1	75.0	400.6	376.5	24.11	16.614			
6,700.0	6,676.4	6,692.4	6,685.6	15.0	12.4	155.87	-218.5	77.2	406.6	382.1	24.51	16.588			
6,800.0	6,776.0	6,792.1	6,785.2	15.2	12.6	155.67	-223.7	79.4	412.5	387.6	24.90	16.568			
6,900.0	6,875.6	6,890.1	6,882.8	15.4	12.7	155.98	-217.7	81.5	418.6	393.5	25.12	16.668			
7,000.0	6,975.2	6,982.2	6,972.4	15.7	12.7	160.21	-197.0	83.5	426.2	401.1	25.16	16.939			
7,100.0	7,074.8	7,066.9	7,051.0	15.9	12.7	-118.41	-165.5	85.2	436.8	411.7	25.12	17.391			
7,200.0	7,172.6	7,150.0	7,122.7	16.0	12.7	-91.32	-123.7	86.8	449.0	423.9	25.11	17.883			
7,300.0	7,265.7	7,226.5	7,182.7	16.0	12.7	-81.35	-76.4	88.1	461.8	436.6	25.18	18.340			
7,400.0	7,351.3	7,300.0	7,234.0	16.1	12.8	-75.38	-23.9	89.2	474.1	448.8	25.29	18.746			
7,500.0	7,426.7	7,377.4	7,280.3	16.2	13.0	-71.13	38.1	90.2	485.1	459.7	25.46	19.052			
7,600.0	7,489.8	7,450.0	7,315.7	16.3	13.3	-68.16	101.4	91.0	494.2	468.5	25.68	19.242			
8,300.0	7,589.0	8,051.5	7,372.0	21.3	18.9	-64.21	694.4	92.3	498.9	464.2	34.75	14.359			
8,400.0	7,589.0	8,151.4	7,372.0	22.5	20.2	-64.13	794.4	92.3	497.3	460.2	37.10	13.407			
8,500.0	7,589.0	8,251.4	7,372.0	23.8	21.6	-64.04	894.4	92.3	495.8	456.2	39.55	12.535			
8,600.0	7,589.0	8,351.4	7,372.0	25.1	23.0	-63.95	994.4	92.3	494.2	452.1	42.10	11.740			
8,700.0	7,589.0	8,451.4	7,372.0	26.4	24.5	-63.86	1,094.4	92.3	492.6	447.9	44.71	11.018			
8,800.0	7,589.0	8,551.4	7,372.0	27.8	26.0	-63.77	1,194.4	92.3	491.1	443.7	47.39	10.363			
8,900.0	7,589.0	8,651.4	7,372.0	29.3	27.5	-63.68	1,294.3	92.3	489.5	439.4	50.11	9.769			
9,000.0	7,589.0	8,751.4	7,372.0	30.7	29.1	-63.59	1,394.3	92.3	487.9	435.1	52.87	9.229			
9,100.0	7,589.0	8,851.3	7,372.0	32.2	30.7	-63.50	1,494.3	92.3	486.4	430.7	55.66	8.738			
9,200.0	7,589.0	8,951.3	7,372.0	33.7	32.3	-63.41	1,594.3	92.3	484.8	426.3	58.49	8.289			
9,300.0	7,589.0	9,051.3	7,372.0	35.3	33.9	-63.31	1,694.3	92.3	483.3	421.9	61.33	7.880			
9,400.0	7,589.0	9,151.3	7,372.0	36.9	35.5	-63.22	1,794.3	92.3	481.7	417.5	64.19	7.504			
9,500.0	7,589.0	9,251.3	7,372.0	38.4	37.2	-63.13	1,894.2	92.3	480.1	413.1	67.07	7.159			
9,600.0	7,589.0	9,351.3	7,372.0	40.0	38.8	-63.03	1,994.2	92.3	478.6	408.6	69.96	6.841			
9,700.0	7,589.0	9,451.3	7,372.0	41.6	40.5	-62.94	2,094.2	92.3	477.0	404.2	72.86	6.547			
9,800.0	7,589.0	9,551.2	7,372.0	43.3	42.2	-62.84	2,194.2	92.3	475.5	399.7	75.77	6.275			
9,900.0	7,589.0	9,651.2	7,372.0	44.9	43.8	-62.75	2,294.2	92.3	473.9	395.2	78.69	6.023			
10,000.0	7,589.0	9,751.2	7,372.0	46.5	45.5	-62.65	2,394.2	92.3	472.4	390.8	81.61	5.788			
10,100.0	7,589.0	9,851.2	7,372.0	48.2	47.2	-62.55	2,494.2	92.3	470.8	386.3	84.54	5.569			
10,200.0	7,589.0	9,951.2	7,372.0	49.8	48.9	-62.45	2,594.1	92.3	469.3	381.8	87.47	5.365			
10,300.0	7,589.0	10,051.2	7,372.0	51.5	50.6	-62.35	2,694.1	92.3	467.7	377.3	90.40	5.174			
10,400.0	7,589.0	10,151.1	7,372.0	53.1	52.3	-62.26	2,794.1	92.3	466.2	372.9	93.33	4.995			
10,500.0	7,589.0	10,251.1	7,372.0	54.8	54.0	-62.15	2,894.1	92.3	464.6	368.4	96.26	4.827			
10,600.0	7,589.0	10,351.1	7,372.0	56.5	55.7	-62.05	2,994.1	92.3	463.1	363.9	99.20	4.669			
10,700.0	7,589.0	10,451.1	7,372.0	58.2	57.4	-61.95	3,094.1	92.3	461.6	359.4	102.13	4.519			
10,800.0	7,589.0	10,551.1	7,372.0	59.9	59.1	-61.85	3,194.0	92.3	460.0	355.0	105.06	4.379			
10,900.0	7,589.0	10,651.1	7,372.0	61.6	60.8	-61.75	3,294.0	92.3	458.5	350.5	107.98	4.246			

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 3H-22H-N268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5000.0ft (Original Well Elev)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	WELL @ 5000.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3H-22H-N268	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

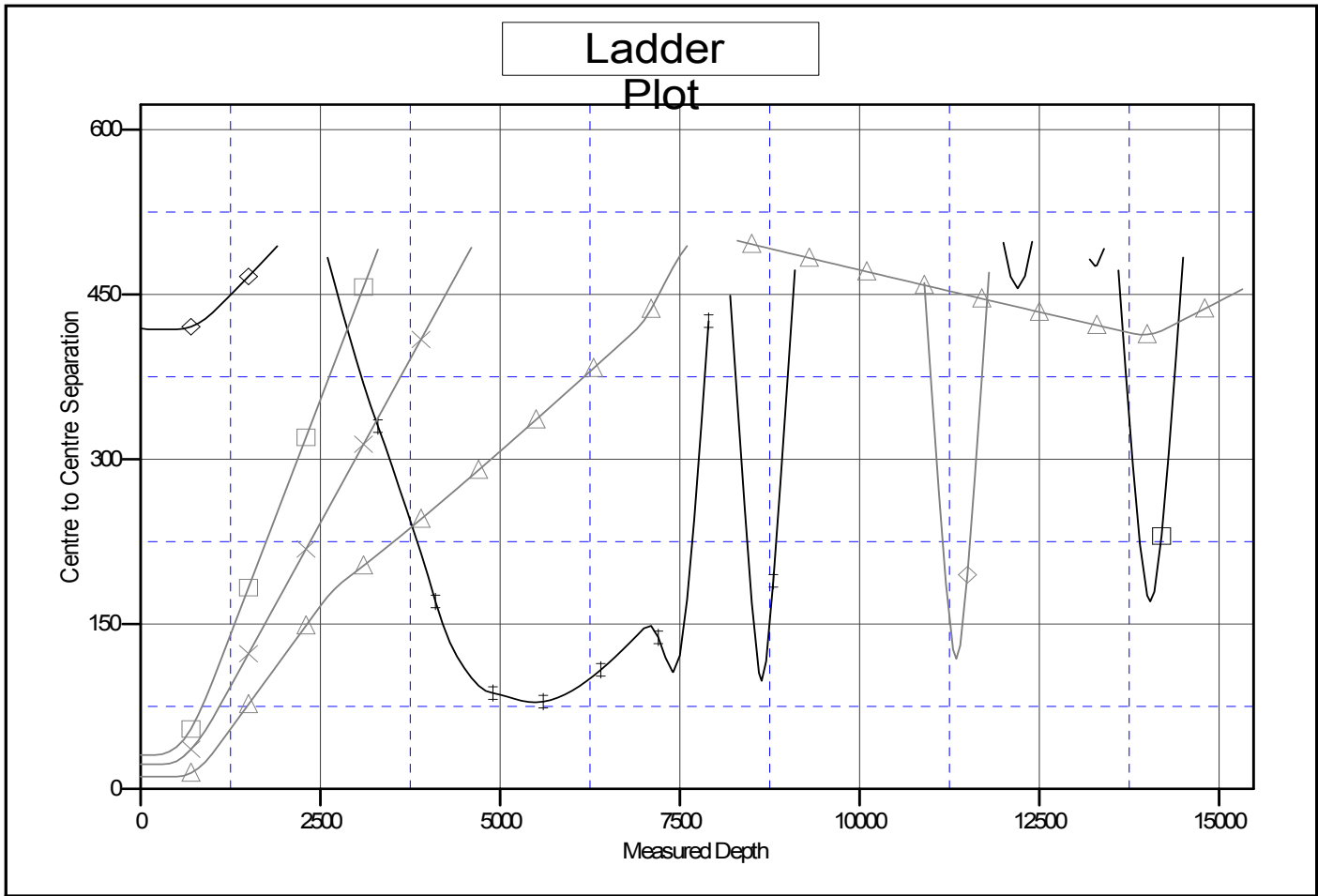
Offset Design												Offset Site Error:	0.0 ft
S22-T2N-R68W (Jillson-East Rinn) - Jillson-East Rinn 3G-22H-N268 - Hz - Plan #1												Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD													
Reference		Offset		Semi Major Axis			Distance			Total	Separation		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Factor	Warning
11,000.0	7,589.0	10,751.1	7,372.0	63.2	62.5	-61.64	3,394.0	92.3	456.9	346.0	110.91	4.120	
11,100.0	7,589.0	10,851.0	7,372.0	64.9	64.3	-61.54	3,494.0	92.3	455.4	341.6	113.83	4.001	
11,200.0	7,589.0	10,951.0	7,372.0	66.6	66.0	-61.43	3,594.0	92.3	453.9	337.1	116.75	3.888	
11,300.0	7,589.0	11,051.0	7,372.0	68.3	67.7	-61.33	3,694.0	92.3	452.3	332.7	119.66	3.780	
11,400.0	7,589.0	11,151.0	7,372.0	70.0	69.4	-61.22	3,794.0	92.3	450.8	328.2	122.57	3.678	
11,500.0	7,589.0	11,251.0	7,372.0	71.8	71.1	-61.12	3,893.9	92.3	449.3	323.8	125.48	3.581	
11,600.0	7,589.0	11,351.0	7,372.0	73.5	72.9	-61.01	3,993.9	92.3	447.8	319.4	128.38	3.488	
11,700.0	7,589.0	11,450.9	7,372.0	75.2	74.6	-60.90	4,093.9	92.3	446.2	315.0	131.27	3.399	
11,800.0	7,589.0	11,550.9	7,372.0	76.9	76.3	-60.79	4,193.9	92.3	444.7	310.5	134.16	3.315	
11,900.0	7,589.0	11,650.9	7,372.0	78.6	78.0	-60.68	4,293.9	92.3	443.2	306.1	137.05	3.234	
12,000.0	7,589.0	11,750.9	7,372.0	80.3	79.8	-60.57	4,393.9	92.3	441.7	301.7	139.93	3.156	
12,100.0	7,589.0	11,850.9	7,372.0	82.0	81.5	-60.46	4,493.8	92.3	440.1	297.3	142.80	3.082	
12,200.0	7,589.0	11,950.9	7,372.0	83.8	83.2	-60.34	4,593.8	92.3	438.6	293.0	145.66	3.011	
12,300.0	7,589.0	12,050.9	7,372.0	85.5	85.0	-60.23	4,693.8	92.3	437.1	288.6	148.52	2.943	
12,400.0	7,589.0	12,150.8	7,372.0	87.2	86.7	-60.12	4,793.8	92.3	435.6	284.2	151.38	2.878	
12,500.0	7,589.0	12,250.8	7,372.0	88.9	88.4	-60.00	4,893.8	92.3	434.1	279.9	154.22	2.815	
12,600.0	7,589.0	12,350.8	7,372.0	90.7	90.2	-59.89	4,993.8	92.3	432.6	275.5	157.06	2.754	
12,700.0	7,589.0	12,450.8	7,372.0	92.4	91.9	-59.77	5,093.8	92.3	431.1	271.2	159.89	2.696	
12,800.0	7,589.0	12,550.8	7,372.0	94.1	93.7	-59.65	5,193.7	92.3	429.6	266.8	162.71	2.640	
12,900.0	7,589.0	12,650.8	7,372.0	95.8	95.4	-59.54	5,293.7	92.3	428.1	262.5	165.53	2.586	
13,000.0	7,589.0	12,750.7	7,372.0	97.6	97.1	-59.42	5,393.7	92.3	426.5	258.2	168.33	2.534	
13,100.0	7,589.0	12,850.7	7,372.0	99.3	98.9	-59.30	5,493.7	92.3	425.0	253.9	171.13	2.484	
13,200.0	7,589.0	12,950.7	7,372.0	101.0	100.6	-59.18	5,593.7	92.3	423.5	249.6	173.92	2.435	
13,300.0	7,589.0	13,050.7	7,372.0	102.8	102.3	-59.05	5,693.7	92.3	422.0	245.3	176.70	2.388	
13,400.0	7,589.0	13,150.7	7,372.0	104.5	104.1	-58.93	5,793.6	92.3	420.6	241.1	179.48	2.343	
13,500.0	7,589.0	13,250.7	7,372.0	106.2	105.8	-58.81	5,893.6	92.3	419.1	236.8	182.24	2.299	
13,600.0	7,589.0	13,350.7	7,372.0	108.0	107.6	-58.69	5,993.6	92.3	417.6	232.6	184.99	2.257	
13,700.0	7,589.0	13,450.6	7,372.0	109.7	109.3	-58.56	6,093.6	92.3	416.1	228.3	187.74	2.216	
13,800.0	7,589.0	13,550.6	7,372.0	111.4	111.1	-58.43	6,193.6	92.3	414.6	224.1	190.47	2.177	
13,900.0	7,589.0	13,650.6	7,372.0	113.2	112.8	-58.35	6,293.6	92.3	413.5	220.1	193.40	2.138	
13,946.2	7,589.0	13,696.8	7,372.0	114.0	113.6	-58.34	6,339.8	92.3	413.4	218.6	194.81	2.122	
14,000.0	7,589.0	13,750.6	7,372.0	114.9	114.5	-58.35	6,393.6	92.3	413.6	217.1	196.49	2.105	
14,100.0	7,589.0	13,850.6	7,372.0	116.6	116.3	-58.45	6,493.6	92.3	414.7	215.0	199.74	2.076	
14,200.0	7,589.0	13,950.6	7,372.0	118.4	118.0	-58.63	6,593.5	92.3	417.0	213.9	203.15	2.053	
14,300.0	7,589.0	14,050.5	7,372.0	120.1	119.8	-58.89	6,693.5	92.3	420.2	213.5	206.68	2.033	
14,400.0	7,589.0	14,150.4	7,372.0	121.9	121.5	-59.16	6,793.4	92.3	423.6	213.3	210.24	2.015	
14,500.0	7,589.0	14,250.3	7,372.0	123.6	123.3	-59.43	6,893.3	92.3	426.9	213.1	213.81	1.997	
14,600.0	7,589.0	14,350.3	7,372.0	125.4	125.0	-59.69	6,993.2	92.3	430.3	212.9	217.37	1.979	
14,700.0	7,589.0	14,450.2	7,372.0	127.1	126.7	-59.95	7,093.2	92.3	433.6	212.7	220.94	1.963	
14,800.0	7,589.0	14,550.1	7,372.0	128.9	128.5	-60.21	7,193.1	92.3	437.0	212.5	224.52	1.946	
14,900.0	7,589.0	14,650.0	7,372.0	130.6	130.2	-60.46	7,293.0	92.3	440.4	212.3	228.09	1.931	
15,000.0	7,589.0	14,750.0	7,372.0	132.3	132.0	-60.71	7,392.9	92.3	443.8	212.1	231.67	1.916	
15,100.0	7,589.0	14,849.9	7,372.0	134.1	133.7	-60.95	7,492.9	92.3	447.2	211.9	235.26	1.901	
15,200.0	7,589.0	14,949.8	7,372.0	135.8	135.5	-61.19	7,592.8	92.3	450.6	211.7	238.84	1.887	
15,300.0	7,589.0	15,049.7	7,372.0	137.6	137.2	-61.43	7,692.7	92.3	454.0	211.6	242.43	1.873	
15,326.9	7,589.0	15,076.2	7,372.0	138.0	137.7	-61.49	7,719.1	92.3	454.9	211.5	243.38	1.869 SF	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Jillson-East Rinn 3H-22H-N268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5000.0ft (Original Well Elev)
Reference Site:	S22-T2N-R68W (Jillson-East Rinn)	MD Reference:	WELL @ 5000.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Jillson-East Rinn 3H-22H-N268	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 Depths are relative to WELL @ 5000.0ft (Original Well Elev)
 Offset Depths are relative to Offset Datum
 Central Meridian is -105.500000 °

Coordinates are relative to: Jillson-East Rinn 3H-22H-N268
 Coordinate System is US State Plane 1983, Colorado Northern Zone
 Grid Convergence at Surface is: 0.33°



LEGEND

- | | | |
|-------------------------------------|---|--|
| X(STING), ENCANA WELL, SURVEYS V0 | JILLSON 4-6-22 (EXISTING), ENCANA WELL, SURVEYS V0 | Jillson-East Rinn 3F-22H-N268, Hz, Fla |
| an#1 V0 | JILLSON 4-8-22 (EXISTING), ENCANA WELL, SURVEYS V0 | Jillson-East Rinn 3G-22H-N268, Hz, Pla |
| STING), KERR-MCGEE WELL, SURVEYS V0 | JILLSON 6 (EXISTING), FOUNDATION WELL, NOSURVEYS V0 | |
| STING), ENCANA WELL, NOSURVEYS V0 | Jillson-East Rinn 3E-22H-N268, Hz, Plan #1 V0 | |

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