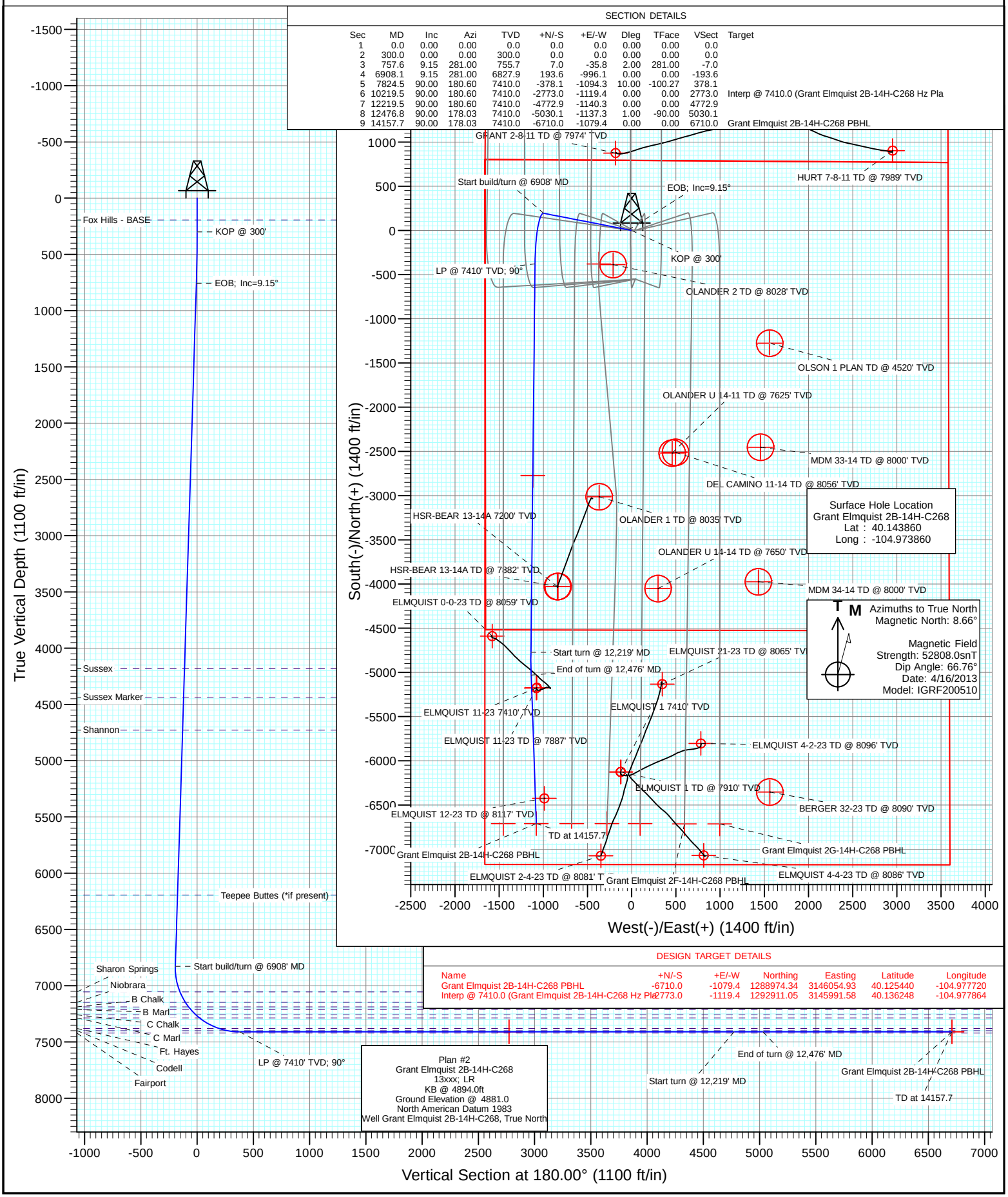
encana

Project: DJ Wattenberg
Site: S14-T2N-R68W (Grant Elmquist/Salisbury)
Well: Grant Elmquist 2B-14H-C268
Wellbore: Hz
Design: Plan #2

CATHEDRAL

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	300.0	0.00	0.00	300.0	0.0	0.0	0.00	0.00	0.0	
3	757.6	9.15	281.00	755.7	7.0	-35.8	2.00	281.00	-7.0	
4	6908.1	9.15	281.00	6827.9	193.6	-996.1	0.00	0.00	-193.6	
5	7824.5	90.00	180.60	7410.0	-378.1	-1094.3	10.00	-100.27	378.1	
6	10219.5	90.00	180.60	7410.0	-2773.0	-1119.4	0.00	0.00	2773.0	Interp @ 7410.0 (Grant Elmquist 2B-14H-C268 Hz Pla
7	12219.5	90.00	180.60	7410.0	-4772.9	-1140.3	0.00	0.00	4772.9	
8	12476.8	90.00	178.03	7410.0	-5030.1	-1137.3	1.00	-90.00	5030.1	
9	14157.7	90.00	178.03	7410.0	-6710.0	-1079.4	0.00	0.00	6710.0	Grant Elmquist 2B-14H-C268 PBHL



DESIGN TARGET DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Grant Elmquist 2B-14H-C268 PBHL	-6710.0	-1079.4	1288974.34	3146054.93	40.125440	-104.977720
Interp @ 7410.0 (Grant Elmquist 2B-14H-C268 Hz Pla	-2773.0	-1119.4	1292911.05	3145991.58	40.136248	-104.977864

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	**Local Co-ordinate Reference:**	Well Grant Elmquist 2B-14H-C268
Company:	EnCana Oil & Gas (USA) Inc	**TVD Reference:**	KB @ 4894.0ft
Project:	DJ Wattenberg	**MD Reference:**	KB @ 4894.0ft
Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	**North Reference:**	True
Well:	Grant Elmquist 2B-14H-C268	**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 S14-T2N-R68W (Grant Elmquist/Salisbury)

Site Position:		**Northing:**	1,295,686.81 ft	**Latitude:**	40.143850
From:	Lat/Long	**Easting:**	3,147,060.98 ft	**Longitude:**	-104.973980
Position Uncertainty:	0.0 ft	**Slot Radius:**	13.200 in	**Grid Convergence:**	0.34 °

Well Grant Elmquist 2B-14H-C268

Well Position	**+N/-S**	0.0 ft	**Northing:**	1,295,690.64 ft	**Latitude:**	40.143860
	+E/-W	0.0 ft	**Easting:**	3,147,094.50 ft	**Longitude:**	-104.973860
Position Uncertainty		0.0 ft	**Wellhead Elevation:**	ft	**Ground Level:**	4,881.0 ft

Wellbore Hz

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	4/16/2013	8.66	66.76	52,808

Design Plan #2

Audit Notes:

Version:		**Phase:**	PLAN	**Tie On Depth:**	0.0

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	180.00

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	
757.6	9.15	281.00	755.7	7.0	-35.8	2.00	2.00	0.00	281.00	
6,908.1	9.15	281.00	6,827.9	193.6	-996.1	0.00	0.00	0.00	0.00	
7,824.5	90.00	180.60	7,410.0	-378.1	-1,094.3	10.00	8.82	-10.96	-100.27	
10,219.5	90.00	180.60	7,410.0	-2,773.0	-1,119.4	0.00	0.00	0.00	0.00	Interp @ 7410.0 (Grai
12,219.5	90.00	180.60	7,410.0	-4,772.9	-1,140.3	0.00	0.00	0.00	0.00	
12,476.8	90.00	178.03	7,410.0	-5,030.1	-1,137.3	1.00	0.00	-1.00	-90.00	
14,157.7	90.00	178.03	7,410.0	-6,710.0	-1,079.4	0.00	0.00	0.00	0.00	Grant Elmquist 2B-14

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Project:	DJ Wattenberg	**MD Reference:**	KB @ 4894.0ft
Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	**North Reference:**	True
Well:	Grant Elmquist 2B-14H-C268	**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	
194.0	0.00	0.00	194.0	0.0	0.0	0.0	0.00	0.00	Fox Hills - BASE
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	KOP @ 300'
400.0	2.00	281.00	400.0	0.3	-1.7	-0.3	2.00	2.00	
500.0	4.00	281.00	499.8	1.3	-6.9	-1.3	2.00	2.00	
600.0	6.00	281.00	599.5	3.0	-15.4	-3.0	2.00	2.00	
700.0	8.00	281.00	698.7	5.3	-27.4	-5.3	2.00	2.00	
757.6	9.15	281.00	755.7	7.0	-35.8	-7.0	2.00	2.00	EOB; Inc=9.15°
800.0	9.15	281.00	797.5	8.2	-42.4	-8.2	0.00	0.00	
900.0	9.15	281.00	896.2	11.3	-58.0	-11.3	0.00	0.00	
1,000.0	9.15	281.00	995.0	14.3	-73.6	-14.3	0.00	0.00	
1,100.0	9.15	281.00	1,093.7	17.3	-89.3	-17.3	0.00	0.00	
1,200.0	9.15	281.00	1,192.4	20.4	-104.9	-20.4	0.00	0.00	
1,300.0	9.15	281.00	1,291.2	23.4	-120.5	-23.4	0.00	0.00	
1,400.0	9.15	281.00	1,389.9	26.5	-136.1	-26.5	0.00	0.00	
1,500.0	9.15	281.00	1,488.6	29.5	-151.7	-29.5	0.00	0.00	
1,600.0	9.15	281.00	1,587.3	32.5	-167.3	-32.5	0.00	0.00	
1,700.0	9.15	281.00	1,686.1	35.6	-182.9	-35.6	0.00	0.00	
1,800.0	9.15	281.00	1,784.8	38.6	-198.6	-38.6	0.00	0.00	
1,900.0	9.15	281.00	1,883.5	41.6	-214.2	-41.6	0.00	0.00	
2,000.0	9.15	281.00	1,982.2	44.7	-229.8	-44.7	0.00	0.00	
2,100.0	9.15	281.00	2,081.0	47.7	-245.4	-47.7	0.00	0.00	
2,200.0	9.15	281.00	2,179.7	50.7	-261.0	-50.7	0.00	0.00	
2,300.0	9.15	281.00	2,278.4	53.8	-276.6	-53.8	0.00	0.00	
2,400.0	9.15	281.00	2,377.1	56.8	-292.2	-56.8	0.00	0.00	
2,500.0	9.15	281.00	2,475.9	59.8	-307.8	-59.8	0.00	0.00	
2,600.0	9.15	281.00	2,574.6	62.9	-323.5	-62.9	0.00	0.00	
2,700.0	9.15	281.00	2,673.3	65.9	-339.1	-65.9	0.00	0.00	
2,800.0	9.15	281.00	2,772.1	68.9	-354.7	-68.9	0.00	0.00	
2,900.0	9.15	281.00	2,870.8	72.0	-370.3	-72.0	0.00	0.00	
3,000.0	9.15	281.00	2,969.5	75.0	-385.9	-75.0	0.00	0.00	
3,100.0	9.15	281.00	3,068.2	78.0	-401.5	-78.0	0.00	0.00	
3,200.0	9.15	281.00	3,167.0	81.1	-417.1	-81.1	0.00	0.00	
3,300.0	9.15	281.00	3,265.7	84.1	-432.7	-84.1	0.00	0.00	
3,400.0	9.15	281.00	3,364.4	87.1	-448.4	-87.1	0.00	0.00	
3,500.0	9.15	281.00	3,463.1	90.2	-464.0	-90.2	0.00	0.00	
3,600.0	9.15	281.00	3,561.9	93.2	-479.6	-93.2	0.00	0.00	
3,700.0	9.15	281.00	3,660.6	96.2	-495.2	-96.2	0.00	0.00	
3,800.0	9.15	281.00	3,759.3	99.3	-510.8	-99.3	0.00	0.00	
3,900.0	9.15	281.00	3,858.1	102.3	-526.4	-102.3	0.00	0.00	
4,000.0	9.15	281.00	3,956.8	105.4	-542.0	-105.4	0.00	0.00	
4,100.0	9.15	281.00	4,055.5	108.4	-557.7	-108.4	0.00	0.00	
4,200.0	9.15	281.00	4,154.2	111.4	-573.3	-111.4	0.00	0.00	
4,228.1	9.15	281.00	4,182.0	112.3	-577.7	-112.3	0.00	0.00	Sussex
4,300.0	9.15	281.00	4,253.0	114.5	-588.9	-114.5	0.00	0.00	
4,400.0	9.15	281.00	4,351.7	117.5	-604.5	-117.5	0.00	0.00	
4,485.4	9.15	281.00	4,436.0	120.1	-617.8	-120.1	0.00	0.00	Sussex Marker
4,500.0	9.15	281.00	4,450.4	120.5	-620.1	-120.5	0.00	0.00	
4,600.0	9.15	281.00	4,549.1	123.6	-635.7	-123.6	0.00	0.00	
4,700.0	9.15	281.00	4,647.9	126.6	-651.3	-126.6	0.00	0.00	

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Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	**North Reference:**	True
Well:	Grant Elmquist 2B-14H-C268	**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
4,782.2	9.15	281.00	4,729.0	129.1	-664.2	-129.1	0.00	0.00	Shannon
4,800.0	9.15	281.00	4,746.6	129.6	-666.9	-129.6	0.00	0.00	
4,900.0	9.15	281.00	4,845.3	132.7	-682.6	-132.7	0.00	0.00	
5,000.0	9.15	281.00	4,944.1	135.7	-698.2	-135.7	0.00	0.00	
5,100.0	9.15	281.00	5,042.8	138.7	-713.8	-138.7	0.00	0.00	
5,200.0	9.15	281.00	5,141.5	141.8	-729.4	-141.8	0.00	0.00	
5,300.0	9.15	281.00	5,240.2	144.8	-745.0	-144.8	0.00	0.00	
5,400.0	9.15	281.00	5,339.0	147.8	-760.6	-147.8	0.00	0.00	
5,500.0	9.15	281.00	5,437.7	150.9	-776.2	-150.9	0.00	0.00	
5,600.0	9.15	281.00	5,536.4	153.9	-791.8	-153.9	0.00	0.00	
5,700.0	9.15	281.00	5,635.1	156.9	-807.5	-156.9	0.00	0.00	
5,800.0	9.15	281.00	5,733.9	160.0	-823.1	-160.0	0.00	0.00	
5,900.0	9.15	281.00	5,832.6	163.0	-838.7	-163.0	0.00	0.00	
6,000.0	9.15	281.00	5,931.3	166.0	-854.3	-166.0	0.00	0.00	
6,100.0	9.15	281.00	6,030.0	169.1	-869.9	-169.1	0.00	0.00	
6,200.0	9.15	281.00	6,128.8	172.1	-885.5	-172.1	0.00	0.00	
6,266.1	9.15	281.00	6,194.0	174.1	-895.8	-174.1	0.00	0.00	Teepee Buttes (*if present)
6,300.0	9.15	281.00	6,227.5	175.1	-901.1	-175.1	0.00	0.00	
6,400.0	9.15	281.00	6,326.2	178.2	-916.8	-178.2	0.00	0.00	
6,500.0	9.15	281.00	6,425.0	181.2	-932.4	-181.2	0.00	0.00	
6,600.0	9.15	281.00	6,523.7	184.2	-948.0	-184.2	0.00	0.00	
6,700.0	9.15	281.00	6,622.4	187.3	-963.6	-187.3	0.00	0.00	
6,800.0	9.15	281.00	6,721.1	190.3	-979.2	-190.3	0.00	0.00	
6,900.0	9.15	281.00	6,819.9	193.4	-994.8	-193.4	0.00	0.00	
6,908.1	9.15	281.00	6,827.9	193.6	-996.1	-193.6	0.00	0.00	Start build/turn @ 6908' MD
7,000.0	11.73	230.36	6,918.4	189.0	-1,010.5	-189.0	10.00	2.80	
7,100.0	19.66	206.94	7,014.7	167.5	-1,026.0	-167.5	10.00	7.93	
7,143.4	23.58	201.89	7,055.0	152.9	-1,032.5	-152.9	10.00	9.04	Sharon Springs
7,200.0	28.87	197.30	7,105.8	129.4	-1,040.8	-129.4	10.00	9.34	
7,249.4	33.57	194.41	7,148.0	104.7	-1,047.7	-104.7	10.00	9.53	Niobrara
7,298.8	38.34	192.16	7,188.0	76.5	-1,054.4	-76.5	10.00	9.64	B Chalk
7,300.0	38.45	192.11	7,189.0	75.8	-1,054.5	-75.8	10.00	9.68	
7,330.0	41.37	190.97	7,212.0	56.9	-1,058.4	-56.9	10.00	9.70	B Marl
7,396.1	47.80	188.86	7,259.0	11.2	-1,066.3	-11.2	10.00	9.75	C Chalk
7,400.0	48.19	188.75	7,261.6	8.4	-1,066.8	-8.4	10.00	9.78	
7,438.0	51.90	187.74	7,286.0	-20.4	-1,070.9	20.4	10.00	9.79	C Marl
7,500.0	57.99	186.28	7,321.6	-70.8	-1,077.1	70.8	10.00	9.82	
7,600.0	67.84	184.30	7,367.1	-159.4	-1,085.2	159.4	10.00	9.84	
7,637.1	71.50	183.64	7,380.0	-194.1	-1,087.6	194.1	10.00	9.86	Ft. Hayes
7,700.0	77.70	182.58	7,396.7	-254.6	-1,090.9	254.6	10.00	9.87	
7,716.7	79.35	182.31	7,400.0	-270.9	-1,091.6	270.9	10.00	9.87	Codell
7,800.0	87.58	180.98	7,409.5	-353.6	-1,094.0	353.6	10.00	9.87	
7,824.5	90.00	180.60	7,410.0	-378.1	-1,094.3	378.1	10.00	9.88	LP @ 7410' TVD; 90°
7,900.0	90.00	180.60	7,410.0	-453.6	-1,095.1	453.6	0.00	0.00	
8,000.0	90.00	180.60	7,410.0	-553.6	-1,096.2	553.6	0.00	0.00	
8,100.0	90.00	180.60	7,410.0	-653.6	-1,097.2	653.6	0.00	0.00	
8,200.0	90.00	180.60	7,410.0	-753.6	-1,098.3	753.6	0.00	0.00	
8,300.0	90.00	180.60	7,410.0	-853.6	-1,099.3	853.6	0.00	0.00	
8,400.0	90.00	180.60	7,410.0	-953.5	-1,100.3	953.5	0.00	0.00	
8,500.0	90.00	180.60	7,410.0	-1,053.5	-1,101.4	1,053.5	0.00	0.00	
8,600.0	90.00	180.60	7,410.0	-1,153.5	-1,102.4	1,153.5	0.00	0.00	
8,700.0	90.00	180.60	7,410.0	-1,253.5	-1,103.5	1,253.5	0.00	0.00	

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Project:	DJ Wattenberg	**MD Reference:**	KB @ 4894.0ft
Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	**North Reference:**	True
Well:	Grant Elmquist 2B-14H-C268	**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	180.60	7,410.0	-1,353.5	-1,104.5	1,353.5	0.00	0.00	
8,900.0	90.00	180.60	7,410.0	-1,453.5	-1,105.6	1,453.5	0.00	0.00	
9,000.0	90.00	180.60	7,410.0	-1,553.5	-1,106.6	1,553.5	0.00	0.00	
9,100.0	90.00	180.60	7,410.0	-1,653.5	-1,107.7	1,653.5	0.00	0.00	
9,200.0	90.00	180.60	7,410.0	-1,753.5	-1,108.7	1,753.5	0.00	0.00	
9,300.0	90.00	180.60	7,410.0	-1,853.5	-1,109.8	1,853.5	0.00	0.00	
9,400.0	90.00	180.60	7,410.0	-1,953.5	-1,110.8	1,953.5	0.00	0.00	
9,500.0	90.00	180.60	7,410.0	-2,053.5	-1,111.9	2,053.5	0.00	0.00	
9,600.0	90.00	180.60	7,410.0	-2,153.5	-1,112.9	2,153.5	0.00	0.00	
9,700.0	90.00	180.60	7,410.0	-2,253.5	-1,114.0	2,253.5	0.00	0.00	
9,800.0	90.00	180.60	7,410.0	-2,353.5	-1,115.0	2,353.5	0.00	0.00	
9,900.0	90.00	180.60	7,410.0	-2,453.5	-1,116.1	2,453.5	0.00	0.00	
10,000.0	90.00	180.60	7,410.0	-2,553.5	-1,117.1	2,553.5	0.00	0.00	
10,100.0	90.00	180.60	7,410.0	-2,653.5	-1,118.1	2,653.5	0.00	0.00	
10,200.0	90.00	180.60	7,410.0	-2,753.4	-1,119.2	2,753.4	0.00	0.00	
10,219.5	90.00	180.60	7,410.0	-2,773.0	-1,119.4	2,773.0	0.00	0.00	Interp @ 7410.0 (Grant Elmquist 2B-14H-C268
10,300.0	90.00	180.60	7,410.0	-2,853.4	-1,120.2	2,853.4	0.00	0.00	
10,400.0	90.00	180.60	7,410.0	-2,953.4	-1,121.3	2,953.4	0.00	0.00	
10,500.0	90.00	180.60	7,410.0	-3,053.4	-1,122.3	3,053.4	0.00	0.00	
10,600.0	90.00	180.60	7,410.0	-3,153.4	-1,123.4	3,153.4	0.00	0.00	
10,700.0	90.00	180.60	7,410.0	-3,253.4	-1,124.4	3,253.4	0.00	0.00	
10,800.0	90.00	180.60	7,410.0	-3,353.4	-1,125.5	3,353.4	0.00	0.00	
10,900.0	90.00	180.60	7,410.0	-3,453.4	-1,126.5	3,453.4	0.00	0.00	
11,000.0	90.00	180.60	7,410.0	-3,553.4	-1,127.6	3,553.4	0.00	0.00	
11,100.0	90.00	180.60	7,410.0	-3,653.4	-1,128.6	3,653.4	0.00	0.00	
11,200.0	90.00	180.60	7,410.0	-3,753.4	-1,129.7	3,753.4	0.00	0.00	
11,300.0	90.00	180.60	7,410.0	-3,853.4	-1,130.7	3,853.4	0.00	0.00	
11,400.0	90.00	180.60	7,410.0	-3,953.4	-1,131.8	3,953.4	0.00	0.00	
11,500.0	90.00	180.60	7,410.0	-4,053.4	-1,132.8	4,053.4	0.00	0.00	
11,600.0	90.00	180.60	7,410.0	-4,153.4	-1,133.9	4,153.4	0.00	0.00	
11,700.0	90.00	180.60	7,410.0	-4,253.4	-1,134.9	4,253.4	0.00	0.00	
11,800.0	90.00	180.60	7,410.0	-4,353.4	-1,136.0	4,353.4	0.00	0.00	
11,900.0	90.00	180.60	7,410.0	-4,453.4	-1,137.0	4,453.4	0.00	0.00	
12,000.0	90.00	180.60	7,410.0	-4,553.3	-1,138.0	4,553.3	0.00	0.00	
12,100.0	90.00	180.60	7,410.0	-4,653.3	-1,139.1	4,653.3	0.00	0.00	
12,200.0	90.00	180.60	7,410.0	-4,753.3	-1,140.1	4,753.3	0.00	0.00	
12,219.5	90.00	180.60	7,410.0	-4,772.8	-1,140.3	4,772.8	0.00	0.00	Start turn @ 12,219' MD
12,300.0	90.00	179.80	7,410.0	-4,853.3	-1,140.6	4,853.3	1.00	0.00	
12,400.0	90.00	178.80	7,410.0	-4,953.3	-1,139.4	4,953.3	1.00	0.00	
12,476.8	90.00	178.03	7,410.0	-5,030.1	-1,137.3	5,030.1	1.00	0.00	End of turn @ 12,476' MD
12,500.0	90.00	178.03	7,410.0	-5,053.3	-1,136.5	5,053.3	0.00	0.00	
12,600.0	90.00	178.03	7,410.0	-5,153.2	-1,133.0	5,153.2	0.00	0.00	
12,700.0	90.00	178.03	7,410.0	-5,253.2	-1,129.6	5,253.2	0.00	0.00	
12,800.0	90.00	178.03	7,410.0	-5,353.1	-1,126.1	5,353.1	0.00	0.00	
12,900.0	90.00	178.03	7,410.0	-5,453.0	-1,122.7	5,453.0	0.00	0.00	
13,000.0	90.00	178.03	7,410.0	-5,553.0	-1,119.3	5,553.0	0.00	0.00	
13,100.0	90.00	178.03	7,410.0	-5,652.9	-1,115.8	5,652.9	0.00	0.00	
13,200.0	90.00	178.03	7,410.0	-5,752.9	-1,112.4	5,752.9	0.00	0.00	
13,300.0	90.00	178.03	7,410.0	-5,852.8	-1,108.9	5,852.8	0.00	0.00	
13,400.0	90.00	178.03	7,410.0	-5,952.8	-1,105.5	5,952.8	0.00	0.00	
13,500.0	90.00	178.03	7,410.0	-6,052.7	-1,102.0	6,052.7	0.00	0.00	
13,600.0	90.00	178.03	7,410.0	-6,152.6	-1,098.6	6,152.6	0.00	0.00	

Database:	USA EDM 5000 Multi Users DB	**Local Co-ordinate Reference:**	Well Grant Elmquist 2B-14H-C268
Company:	EnCana Oil & Gas (USA) Inc	**TVD Reference:**	KB @ 4894.0ft
Project:	DJ Wattenberg	**MD Reference:**	KB @ 4894.0ft
Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	**North Reference:**	True
Well:	Grant Elmquist 2B-14H-C268	**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
13,700.0	90.00	178.03	7,410.0	-6,252.6	-1,095.2	6,252.6	0.00	0.00	
13,800.0	90.00	178.03	7,410.0	-6,352.5	-1,091.7	6,352.5	0.00	0.00	
13,900.0	90.00	178.03	7,410.0	-6,452.5	-1,088.3	6,452.5	0.00	0.00	
14,000.0	90.00	178.03	7,410.0	-6,552.4	-1,084.8	6,552.4	0.00	0.00	
14,100.0	90.00	178.03	7,410.0	-6,652.3	-1,081.4	6,652.3	0.00	0.00	
14,157.7	90.00	178.03	7,410.0	-6,710.0	-1,079.4	6,710.0	0.00	0.00	TD at 14157.7 - Grant Elmquist 2B-14H-C268 F

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
Interp @ 7410.0 (Grant I - plan hits target center - Point	0.00	0.00	7,410.0	-2,773.0	-1,119.4	1,292,911.05	3,145,991.58	40.136248	-104.977864
Grant Elmquist 2B-14H-(- plan hits target center - Point	0.00	0.00	7,410.0	-6,710.0	-1,079.4	1,288,974.34	3,146,054.93	40.125440	-104.977720

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
194.0	194.0	Fox Hills - BASE			
4,228.1	4,182.0	Sussex			
4,485.4	4,436.0	Sussex Marker			
4,782.2	4,729.0	Shannon			
6,266.1	6,194.0	Teepee Buttes (*if present)			
7,143.4	7,055.0	Sharon Springs			
7,249.4	7,148.0	Niobrara			
7,298.8	7,188.0	B Chalk			
7,330.0	7,212.0	B Marl			
7,396.1	7,259.0	C Chalk			
7,438.0	7,286.0	C Marl			
7,637.1	7,380.0	Ft. Hayes			
7,716.7	7,400.0	Codell			

Database:	USA EDM 5000 Multi Users DB	**Local Co-ordinate Reference:**	Well Grant Elmquist 2B-14H-C268
Company:	EnCana Oil & Gas (USA) Inc	**TVD Reference:**	KB @ 4894.0ft
Project:	DJ Wattenberg	**MD Reference:**	KB @ 4894.0ft
Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	**North Reference:**	True
Well:	Grant Elmquist 2B-14H-C268	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #2		

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
300.0	300.0	0.0	0.0	KOP @ 300'
757.6	755.7	7.0	-35.8	EOB; Inc=9.15°
6,908.1	6,827.9	193.6	-996.1	Start build/turn @ 6908' MD
7,824.5	7,410.0	-378.1	-1,094.3	LP @ 7410' TVD; 90°
12,219.5	7,410.0	-2,773.0	-1,119.4	Start turn @ 12,219' MD
12,476.8	7,410.0	-4,772.9	-1,140.3	End of turn @ 12,476' MD
14,157.7	7,410.0	-5,030.1	-1,137.3	TD at 14157.7

EnCana Oil & Gas (USA) Inc

DJ Wattenberg
S14-T2N-R68W (Grant Elmquist/Salisbury)
Grant Elmquist 2B-14H-C268
Hz
Plan #2

Anticollision Report

15 May, 2013

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Grant Elmquist 2B-14H-C268
Project:	DJ Wattenberg	**TVD Reference:**	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	**MD Reference:**	KB @ 4894.0ft
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Grant Elmquist 2B-14H-C268	**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 1,279.0ft	**Error Surface:**	Elliptical Conic
Warning Levels Evaluated at:	2.00 **Sigma**		

Survey Tool Program **Date** 5/15/2013

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	14,157.7	Plan #2 (Hz)	MWD	Geolink MWD

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Grant Elmquist 2B-14H-C268
Project:	DJ Wattenberg	**TVD Reference:**	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	**MD Reference:**	KB @ 4894.0ft
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Grant Elmquist 2B-14H-C268	**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 Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
S14-T2N-R68W (Grant Elmquist/Salisbury)						
BERGER 32-23 (EXISTING) - EXISTING - NO SURVEY						Out of range
DEL CAMINO 11-14 (EXISTING) - EXISTING - NO SURV						Out of range
ELMQUIST 0-0-23 (EXISTING) - EXISTING - SURVEYS	12,042.4	7,543.8	447.7	347.6	4.474	CC, ES
ELMQUIST 0-0-23 (EXISTING) - EXISTING - SURVEYS	12,100.0	7,543.6	451.4	350.3	4.466	SF
ELMQUIST 1 (EXISTING) - EXISTING - GYRO	13,607.3	7,428.4	972.9	856.6	8.366	CC, ES
ELMQUIST 1 (EXISTING) - EXISTING - GYRO	13,700.0	7,428.5	977.3	859.4	8.289	SF
ELMQUIST 11-23 (EXISTING) - EXISTING - GYRO	12,626.4	7,439.9	52.9	-46.3	0.533	Level 1, CC, ES, SF
ELMQUIST 12-23 (EXISTING) - EXISTING - NO SURVE	13,876.2	7,461.0	100.9	-26.6	0.792	Level 1, CC, ES, SF
ELMQUIST 21-23 (EXISTING) - EXISTING - SURVEYS						Out of range
ELMQUIST 2-4-23 (EXISTING) - EXISTING - SURVEYS	14,157.7	7,558.5	816.1	676.3	5.838	CC, ES, SF
ELMQUIST 4-2-23 (EXISTING) - EXISTING - SURVEYS						Out of range
ELMQUIST 4-4-23 (EXISTING) - EXISTING - SURVEYS						Out of range
GRANT 23-11 (EXISTING) - EXISTING - SURVEYS						Out of range
GRANT 2-8-11 (EXISTING) - EXISTING - SURVEYS	5,355.2	5,627.6	952.2	917.7	27.554	CC, ES
GRANT 2-8-11 (EXISTING) - EXISTING - SURVEYS	5,700.0	5,910.8	962.5	926.9	27.071	SF
GRANT 3-6-11 (EXISTING) - EXISTING - SURVEYS						Out of range
Grant Elmquist 2A-14H-C268 - Hz - Plan #2	200.0	200.0	8.4	7.7	12.848	CC, ES
Grant Elmquist 2A-14H-C268 - Hz - Plan #2	14,157.7	14,012.0	429.5	220.1	2.051	SF
Grant Elmquist 2C-14H-C268 - Hz - Plan #2	300.0	300.0	11.2	10.2	11.162	CC, ES
Grant Elmquist 2C-14H-C268 - Hz - Plan #2	14,157.7	13,891.9	451.7	239.3	2.127	SF
Grant Elmquist 2D-14H-C268 - Hz - Plan #2	300.0	300.0	19.6	18.6	19.534	CC, ES
Grant Elmquist 2D-14H-C268 - Hz - Plan #2	14,157.7	14,090.8	799.8	560.4	3.341	SF
Grant Elmquist 2E-14H-C268 - Hz - Plan #2	300.0	300.0	30.8	29.8	30.696	CC, ES
Grant Elmquist 2E-14H-C268 - Hz - Plan #2	14,157.7	13,861.3	1,193.1	957.4	5.062	SF
Grant Elmquist 2F-14H-C268 - Hz - Plan #2	300.0	300.0	39.1	38.1	39.068	CC, ES
Grant Elmquist 2F-14H-C268 - Hz - Plan #2	500.0	499.8	46.0	44.3	27.097	SF
Grant Elmquist 2G-14H-C268 - Hz - Plan #2	300.0	311.0	50.3	49.3	50.230	CC, ES
Grant Elmquist 2G-14H-C268 - Hz - Plan #2	500.0	508.7	59.2	57.5	34.954	SF
Grant Salisbury 2A-14H-C268 - Hz - Plan #1	7,912.2	7,527.5	530.9	501.4	17.986	CC, ES
Grant Salisbury 2A-14H-C268 - Hz - Plan #1	8,000.0	7,469.2	534.6	504.5	17.778	SF
Grant Salisbury 2B-14H-C268 - Hz - Plan #1	7,391.6	7,756.3	149.3	119.4	4.994	CC
Grant Salisbury 2B-14H-C268 - Hz - Plan #1	7,400.0	7,750.2	149.4	119.4	4.972	ES, SF
Grant Salisbury 2C-14H-C268 - Hz - Plan #1	7,300.0	7,798.6	252.5	221.2	8.068	SF
Grant Salisbury 2C-14H-C268 - Hz - Plan #1	7,348.5	7,767.6	249.7	219.5	8.258	CC, ES
Grant Salisbury 2D-14H-C268 - Hz - Plan #1	300.0	300.0	554.4	553.4	553.405	CC, ES
Grant Salisbury 2D-14H-C268 - Hz - Plan #1	7,200.0	7,953.2	654.0	621.8	20.325	SF
Grant Salisbury 2E-14H-C268 - Hz - Plan #1	300.0	300.0	555.1	554.1	554.080	CC, ES
Grant Salisbury 2E-14H-C268 - Hz - Plan #1	7,000.0	7,800.0	1,036.4	1,004.7	32.786	SF
Grant Salisbury 2F-14H-C268 - Hz - Plan #1	300.0	300.0	555.7	554.7	554.733	CC, ES
Grant Salisbury 2F-14H-C268 - Hz - Plan #1	5,400.0	5,287.5	1,274.2	1,253.7	62.151	SF
HSR-BEAR 13-14A (EXISTING) - EXISTING - SURVEYS	11,472.4	7,686.2	294.6	198.9	3.081	CC, ES
HSR-BEAR 13-14A (EXISTING) - EXISTING - SURVEYS	11,500.0	7,686.1	295.9	199.8	3.079	SF
HURT 33-11 (EXISTING) - EXISTING - NO SURVEY						Out of range
HURT 34-11 (EXISTING) - EXISTING - SURVEYS						Out of range
HURT 43-11 (EXISTING) - EXISTING - SURVEYS						Out of range
HURT 7-8-11 (EXISTING) - EXISTING - SURVEYS						Out of range
MDM 33-14 (EXISTING) - EXISTING - NO SURVEYS						Out of range
MDM 34-14 (EXISTING) - EXISTING - NO SURVEYS						Out of range
NELSON 1 (EXISTING) - EXISTING - NO SURVEYS						Out of range
NELSON 23-23C (EXISTING) - EXISTING - NO SURVEY						Out of range
OLANDER 1 (EXISTING) - EXISTING - NO SURVEYS	10,452.0	7,417.0	753.6	684.6	10.915	CC, ES
OLANDER 1 (EXISTING) - EXISTING - NO SURVEYS	10,600.0	7,417.0	768.0	696.5	10.730	SF
OLANDER 2 (EXISTING) - EXISTING - NO SURVEYS	1,364.8	1,348.1	420.3	414.6	72.786	CC

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Grant Elmquist 2B-14H-C268
Project:	DJ Wattenberg	**TVD Reference:**	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	**MD Reference:**	KB @ 4894.0ft
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Grant Elmquist 2B-14H-C268	**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 Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
S14-T2N-R68W (Grant Elmquist/Salisbury)						
OLANDER 2 (EXISTING) - EXISTING - NO SURVEYS	1,400.0	1,382.9	420.4	414.4	70.657	ES
OLANDER 2 (EXISTING) - EXISTING - NO SURVEYS	8,200.0	7,403.0	960.1	927.4	29.336	SF
OLANDER U 14-11 (EXISTING) - EXISTING - NO SURV						Out of range
OLANDER U 14-14 (EXISTING) - EXISTING - NO SURV						Out of range
OLSON 1 (EXISTING) - PLAN ONLY - PLAN #1						Out of range
SALISBURY 1 (EXISTING) - EXISTING - GYRO						Out of range
SALISBURY 13-11 (EXISTING) - EXISTING - SURVEYS						Out of range
SALISBURY 14-11 (EXISTING) - EXISTING - SURVEYS	6,909.0	6,861.7	1,218.3	1,184.3	35.799	CC, ES
SALISBURY 14-11 (EXISTING) - EXISTING - SURVEYS	7,000.0	6,952.0	1,224.3	1,190.0	35.699	SF
SALISBURY 2-4-11 (EXISTING) - EXISTING - SURVEYS						Out of range

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Grant Elmquist 2B-14H-C268
Project:	DJ Wattenberg	**TVD Reference:**	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	**MD Reference:**	KB @ 4894.0ft
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Grant Elmquist 2B-14H-C268	**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 S14-T2N-R68W (Grant Elmquist/Salisbury) - ELMQUIST 0-0-23 (EXISTING) - EXISTING - SURVEYS

Offset Site Error: 0.0 ft

Survey Program: 43-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
10,900.0	7,410.0	7,547.1	7,458.2	66.6	20.3	90.99	-4,591.0	-1,586.1	1,227.0	1,146.7	80.33	15.273	
11,000.0	7,410.0	7,546.8	7,457.9	68.3	20.3	90.96	-4,591.0	-1,586.1	1,134.5	1,052.4	82.05	13.826	
11,100.0	7,410.0	7,546.5	7,457.6	69.9	20.3	90.92	-4,591.0	-1,586.1	1,043.3	959.6	83.78	12.454	
11,200.0	7,410.0	7,546.2	7,457.3	71.6	20.3	90.88	-4,591.0	-1,586.1	954.0	868.5	85.50	11.157	
11,300.0	7,410.0	7,545.9	7,457.0	73.2	20.3	90.84	-4,591.0	-1,586.1	866.9	779.7	87.23	9.939	
11,400.0	7,410.0	7,545.6	7,456.7	74.9	20.3	90.81	-4,591.0	-1,586.1	783.0	694.1	88.95	8.803	
11,500.0	7,410.0	7,545.3	7,456.4	76.6	20.3	90.77	-4,591.0	-1,586.1	703.3	612.6	90.68	7.756	
11,600.0	7,410.0	7,545.0	7,456.1	78.2	20.3	90.73	-4,591.0	-1,586.1	629.4	537.0	92.41	6.811	
11,700.0	7,410.0	7,544.8	7,455.8	79.9	20.3	90.70	-4,591.0	-1,586.1	563.6	469.5	94.14	5.987	
11,800.0	7,410.0	7,544.5	7,455.5	81.6	20.3	90.66	-4,591.0	-1,586.1	509.1	413.2	95.87	5.310	
11,900.0	7,410.0	7,544.2	7,455.3	83.3	20.3	90.62	-4,591.1	-1,586.1	469.8	372.2	97.60	4.813	
12,000.0	7,410.0	7,543.9	7,455.0	85.0	20.3	90.58	-4,591.1	-1,586.2	449.7	350.4	99.34	4.527	
12,042.4	7,410.0	7,543.8	7,454.8	85.7	20.3	90.57	-4,591.1	-1,586.2	447.7	347.6	100.07	4.474	CC, ES
12,100.0	7,410.0	7,543.6	7,454.7	86.7	20.3	90.55	-4,591.1	-1,586.2	451.4	350.3	101.07	4.466	SF
12,200.0	7,410.0	7,543.3	7,454.4	88.4	20.3	90.51	-4,591.1	-1,586.2	474.6	371.8	102.81	4.617	
12,300.0	7,410.0	7,543.0	7,454.1	90.0	20.3	90.48	-4,591.1	-1,586.2	517.0	412.6	104.37	4.954	
12,400.0	7,410.0	7,542.7	7,453.8	91.7	20.3	90.45	-4,591.1	-1,586.2	575.2	469.3	105.88	5.433	
12,500.0	7,410.0	7,542.5	7,453.6	93.4	20.3	90.42	-4,591.1	-1,586.2	644.9	537.5	107.42	6.004	
12,600.0	7,410.0	7,542.2	7,453.3	95.1	20.3	90.39	-4,591.1	-1,586.2	722.1	612.9	109.15	6.615	
12,700.0	7,410.0	7,542.0	7,453.1	96.8	20.3	90.35	-4,591.1	-1,586.2	804.3	693.4	110.89	7.253	
12,800.0	7,410.0	7,541.7	7,452.8	98.5	20.3	90.32	-4,591.1	-1,586.2	890.1	777.5	112.63	7.903	
12,900.0	7,410.0	7,541.5	7,452.6	100.2	20.3	90.29	-4,591.1	-1,586.2	978.7	864.3	114.37	8.557	
13,000.0	7,410.0	7,541.2	7,452.3	101.9	20.3	90.25	-4,591.1	-1,586.2	1,069.3	953.2	116.11	9.209	
13,100.0	7,410.0	7,541.0	7,452.1	103.6	20.3	90.22	-4,591.1	-1,586.2	1,161.4	1,043.5	117.85	9.855	
13,200.0	7,410.0	7,540.7	7,451.8	105.3	20.3	90.19	-4,591.1	-1,586.2	1,254.7	1,135.1	119.59	10.492	

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Grant Elmquist 2B-14H-C268
Project:	DJ Wattenberg	**TVD Reference:**	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	**MD Reference:**	KB @ 4894.0ft
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Grant Elmquist 2B-14H-C268	**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 S14-T2N-R68W (Grant Elmquist/Salisbury) - ELMQUIST 1 (EXISTING) - EXISTING - GYRO

Offset Site Error: 0.0 ft

Survey Program: 100-Gyro

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
12,800.0	7,410.0	7,428.1	7,427.1	98.5	6.5	-89.59	-6,126.4	-126.1	1,264.2	1,162.0	102.23	12.366	
12,900.0	7,410.0	7,428.1	7,427.1	100.2	6.5	-89.60	-6,126.4	-126.1	1,202.8	1,098.8	103.97	11.569	
13,000.0	7,410.0	7,428.1	7,427.2	101.9	6.5	-89.60	-6,126.4	-126.1	1,146.8	1,041.1	105.71	10.849	
13,100.0	7,410.0	7,428.2	7,427.2	103.6	6.5	-89.60	-6,126.4	-126.1	1,097.2	989.7	107.45	10.211	
13,200.0	7,410.0	7,428.2	7,427.3	105.3	6.5	-89.60	-6,126.4	-126.1	1,054.7	945.5	109.19	9.659	
13,300.0	7,410.0	7,428.3	7,427.3	107.0	6.5	-89.61	-6,126.4	-126.1	1,020.2	909.3	110.93	9.197	
13,400.0	7,410.0	7,428.3	7,427.4	108.7	6.5	-89.61	-6,126.4	-126.1	994.7	882.0	112.67	8.828	
13,500.0	7,410.0	7,428.4	7,427.4	110.4	6.5	-89.61	-6,126.4	-126.1	978.8	864.3	114.41	8.555	
13,600.0	7,410.0	7,428.4	7,427.5	112.1	6.5	-89.61	-6,126.4	-126.1	972.9	856.7	116.16	8.376	
13,607.3	7,410.0	7,428.4	7,427.5	112.2	6.5	-89.62	-6,126.4	-126.1	972.9	856.6	116.28	8.366	CC, ES
13,700.0	7,410.0	7,428.5	7,427.5	113.8	6.5	-89.62	-6,126.4	-126.1	977.3	859.4	117.90	8.289	SF
13,800.0	7,410.0	7,428.5	7,427.6	115.5	6.5	-89.62	-6,126.4	-126.1	991.8	872.1	119.64	8.290	
13,900.0	7,410.0	7,428.6	7,427.6	117.2	6.5	-89.62	-6,126.4	-126.1	1,016.0	894.6	121.39	8.370	
14,000.0	7,410.0	7,428.6	7,427.7	118.9	6.5	-89.63	-6,126.4	-126.1	1,049.1	926.0	123.13	8.521	
14,100.0	7,410.0	7,428.7	7,427.7	120.6	6.5	-89.63	-6,126.4	-126.1	1,090.5	965.7	124.87	8.733	
14,157.7	7,410.0	7,428.7	7,427.7	121.6	6.5	-89.63	-6,126.4	-126.1	1,117.8	991.9	125.88	8.880	

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Grant Elmquist 2B-14H-C268
Project:	DJ Wattenberg	**TVD Reference:**	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	**MD Reference:**	KB @ 4894.0ft
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Grant Elmquist 2B-14H-C268	**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 S14-T2N-R68W (Grant Elmquist/Salisbury) - ELMQUIST 11-23 (EXISTING) - EXISTING - GYRO

Offset Site Error: 0.0 ft

Survey Program: 100-Gyro

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
11,400.0	7,410.0	7,453.2	7,450.4	74.9	6.6	-100.70	-5,177.6	-1,079.1	1,225.5	1,147.7	77.79	15.753	
11,500.0	7,410.0	7,452.0	7,449.2	76.6	6.6	-99.69	-5,177.7	-1,079.1	1,125.6	1,045.9	79.69	14.124	
11,600.0	7,410.0	7,450.8	7,448.0	78.2	6.6	-98.69	-5,177.7	-1,079.1	1,025.8	944.2	81.59	12.573	
11,700.0	7,410.0	7,449.6	7,446.8	79.9	6.6	-97.70	-5,177.7	-1,079.1	926.0	842.6	83.47	11.095	
11,800.0	7,410.0	7,448.5	7,445.7	81.6	6.6	-96.72	-5,177.7	-1,079.1	826.3	741.0	85.33	9.683	
11,900.0	7,410.0	7,447.4	7,444.6	83.3	6.6	-95.74	-5,177.7	-1,079.2	726.7	639.5	87.19	8.335	
12,000.0	7,410.0	7,446.3	7,443.5	85.0	6.6	-94.79	-5,177.7	-1,079.2	627.2	538.1	89.02	7.045	
12,100.0	7,410.0	7,445.2	7,442.4	86.7	6.6	-93.84	-5,177.7	-1,079.2	527.8	437.0	90.84	5.810	
12,200.0	7,410.0	7,444.1	7,441.3	88.4	6.6	-92.90	-5,177.7	-1,079.2	428.8	336.1	92.65	4.628	
12,300.0	7,410.0	7,443.0	7,440.3	90.0	6.6	-92.16	-5,177.8	-1,079.2	330.2	236.0	94.15	3.507	
12,400.0	7,410.0	7,442.0	7,439.3	91.7	6.6	-91.31	-5,177.8	-1,079.2	232.4	136.8	95.56	2.431	
12,500.0	7,410.0	7,441.1	7,438.3	93.4	6.6	-90.33	-5,177.8	-1,079.3	137.0	40.0	97.02	1.412	Level 3
12,600.0	7,410.0	7,440.1	7,437.4	95.1	6.6	-89.32	-5,177.8	-1,079.3	59.1	-39.7	98.75	0.598	Level 1
12,626.4	7,410.0	7,439.9	7,437.1	95.5	6.6	-89.05	-5,177.8	-1,079.3	52.9	-46.3	99.20	0.533	Level 1, CC, ES, SF
12,700.0	7,410.0	7,439.2	7,436.4	96.8	6.6	-88.32	-5,177.8	-1,079.3	90.6	-9.8	100.45	0.902	Level 1
12,800.0	7,410.0	7,438.3	7,435.5	98.5	6.6	-87.33	-5,177.8	-1,079.3	181.5	79.3	102.13	1.777	
12,900.0	7,410.0	7,437.4	7,434.6	100.2	6.6	-86.36	-5,177.8	-1,079.3	278.7	174.9	103.78	2.685	
13,000.0	7,410.0	7,436.5	7,433.8	101.9	6.6	-85.40	-5,177.8	-1,079.3	377.3	271.9	105.40	3.580	
13,100.0	7,410.0	7,435.7	7,432.9	103.6	6.6	-84.46	-5,177.8	-1,079.3	476.5	369.5	106.99	4.454	
13,200.0	7,410.0	7,434.8	7,432.0	105.3	6.6	-83.54	-5,177.8	-1,079.4	576.0	467.5	108.56	5.306	
13,300.0	7,410.0	7,433.9	7,431.2	107.0	6.6	-82.63	-5,177.8	-1,079.4	675.6	565.6	110.10	6.137	
13,400.0	7,410.0	7,433.1	7,430.3	108.7	6.6	-81.74	-5,177.8	-1,079.4	775.4	663.8	111.61	6.947	
13,500.0	7,410.0	7,432.3	7,429.5	110.4	6.6	-80.86	-5,177.9	-1,079.4	875.2	762.1	113.09	7.738	
13,600.0	7,410.0	7,431.5	7,428.7	112.1	6.6	-79.99	-5,177.9	-1,079.4	975.0	860.4	114.55	8.511	
13,700.0	7,410.0	7,430.7	7,427.9	113.8	6.6	-79.15	-5,177.9	-1,079.4	1,074.9	958.9	115.99	9.267	
13,800.0	7,410.0	7,429.9	7,427.1	115.5	6.6	-78.32	-5,177.9	-1,079.4	1,174.7	1,057.4	117.39	10.007	
13,900.0	7,410.0	7,429.1	7,426.3	117.2	6.6	-77.50	-5,177.9	-1,079.5	1,274.7	1,155.9	118.77	10.732	

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Grant Elmquist 2B-14H-C268
Project:	DJ Wattenberg	**TVD Reference:**	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	**MD Reference:**	KB @ 4894.0ft
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Grant Elmquist 2B-14H-C268	**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 S14-T2N-R68W (Grant Elmquist/Salisbury) - ELMQUIST 12-23 (EXISTING) - EXISTING - NO SURVEY

Offset Site Error: 0.0 ft

Survey Program: 8117-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
12,700.0	7,410.0	7,461.0	7,461.0	96.8	13.0	-90.00	-6,425.2	-988.2	1,180.5	1,073.5	107.02	11.030	
12,800.0	7,410.0	7,461.0	7,461.0	98.5	13.0	-90.00	-6,425.2	-988.2	1,080.9	972.1	108.76	9.938	
12,900.0	7,410.0	7,461.0	7,461.0	100.2	13.0	-90.00	-6,425.2	-988.2	981.4	870.9	110.50	8.881	
13,000.0	7,410.0	7,461.0	7,461.0	101.9	13.0	-90.00	-6,425.2	-988.2	882.0	769.7	112.24	7.858	
13,100.0	7,410.0	7,461.0	7,461.0	103.6	13.0	-90.00	-6,425.2	-988.2	782.7	668.7	113.98	6.867	
13,200.0	7,410.0	7,461.0	7,461.0	105.3	13.0	-90.00	-6,425.2	-988.2	683.7	567.9	115.72	5.908	
13,300.0	7,410.0	7,461.0	7,461.0	107.0	13.0	-90.00	-6,425.2	-988.2	584.9	467.5	117.46	4.980	
13,400.0	7,410.0	7,461.0	7,461.0	108.7	13.0	-90.00	-6,425.2	-988.2	486.7	367.5	119.21	4.083	
13,500.0	7,410.0	7,461.0	7,461.0	110.4	13.0	-90.00	-6,425.2	-988.2	389.5	268.5	120.95	3.220	
13,600.0	7,410.0	7,461.0	7,461.0	112.1	13.0	-90.00	-6,425.2	-988.2	294.0	171.3	122.69	2.396	
13,700.0	7,410.0	7,461.0	7,461.0	113.8	13.0	-90.00	-6,425.2	-988.2	203.0	78.6	124.43	1.632	
13,800.0	7,410.0	7,461.0	7,461.0	115.5	13.0	-90.00	-6,425.2	-988.2	126.4	0.3	126.18	1.002	Level 2
13,876.2	7,410.0	7,461.0	7,461.0	116.8	13.0	-90.00	-6,425.2	-988.2	100.9	-26.6	127.50	0.792	Level 1, CC, ES, SF
13,900.0	7,410.0	7,461.0	7,461.0	117.2	13.0	-90.00	-6,425.2	-988.2	103.7	-24.2	127.92	0.811	Level 1
14,000.0	7,410.0	7,461.0	7,461.0	118.9	13.0	-90.00	-6,425.2	-988.2	159.8	30.1	129.66	1.232	Level 2
14,100.0	7,410.0	7,461.0	7,461.0	120.6	13.0	-90.00	-6,425.2	-988.2	245.5	114.1	131.41	1.869	
14,157.7	7,410.0	7,461.0	7,461.0	121.6	13.0	-90.00	-6,425.2	-988.2	299.1	166.7	132.42	2.259	

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Grant Elmquist 2B-14H-C268
Project:	DJ Wattenberg	**TVD Reference:**	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	**MD Reference:**	KB @ 4894.0ft
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Grant Elmquist 2B-14H-C268	**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 S14-T2N-R68W (Grant Elmquist/Salisbury) - ELMQUIST 2-4-23 (EXISTING) - EXISTING - SURVEYS

Offset Site Error: 0.0 ft

Survey Program: 72-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
13,500.0	7,410.0	7,558.5	7,447.1	110.4	21.2	-90.00	-7,074.1	-349.0	1,268.9	1,140.6	128.31	9.890	
13,600.0	7,410.0	7,558.5	7,447.1	112.1	21.2	-90.00	-7,074.1	-349.0	1,187.8	1,057.7	130.05	9.133	
13,700.0	7,410.0	7,558.5	7,447.1	113.8	21.2	-90.00	-7,074.1	-349.0	1,109.7	977.9	131.79	8.420	
13,800.0	7,410.0	7,558.5	7,447.1	115.5	21.2	-90.00	-7,074.1	-349.0	1,035.5	901.9	133.54	7.754	
13,900.0	7,410.0	7,558.5	7,447.1	117.2	21.2	-90.00	-7,074.1	-349.0	965.8	830.6	135.28	7.140	
14,000.0	7,410.0	7,558.5	7,447.1	118.9	21.2	-90.00	-7,074.1	-349.0	902.0	764.9	137.02	6.582	
14,100.0	7,410.0	7,558.5	7,447.1	120.6	21.2	-90.00	-7,074.1	-349.0	845.1	706.3	138.77	6.090	
14,157.7	7,410.0	7,558.5	7,447.1	121.6	21.2	-90.00	-7,074.1	-349.0	816.1	676.3	139.77	5.838	CC, ES, SF

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Grant Elmquist 2B-14H-C268
Project:	DJ Wattenberg	**TVD Reference:**	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	**MD Reference:**	KB @ 4894.0ft
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Grant Elmquist 2B-14H-C268	**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 S14-T2N-R68W (Grant Elmquist/Salisbury) - GRANT 2-8-11 (EXISTING) - EXISTING - SURVEYS

Offset Site Error: 0.0 ft

Survey Program: 62-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
3,200.0	3,167.0	3,654.0	3,466.7	9.4	20.7	122.31	1,001.5	402.3	1,271.1	1,250.4	20.75	61.274	
3,300.0	3,265.7	3,754.1	3,562.3	9.8	21.2	122.22	993.8	374.2	1,254.6	1,233.2	21.41	58.611	
3,400.0	3,364.4	3,843.9	3,648.3	10.1	21.7	122.09	987.8	348.5	1,238.5	1,216.4	22.05	56.165	
3,500.0	3,463.1	3,944.5	3,744.6	10.4	22.3	121.95	981.4	320.4	1,223.0	1,200.3	22.73	53.805	
3,600.0	3,561.9	4,074.0	3,868.0	10.8	23.1	121.72	972.2	282.1	1,205.9	1,182.3	23.58	51.141	
3,700.0	3,660.6	4,166.1	3,955.2	11.1	23.6	121.49	965.8	253.3	1,187.6	1,163.3	24.30	48.884	
3,800.0	3,759.3	4,248.0	4,033.0	11.4	24.1	121.29	960.5	228.2	1,170.2	1,145.3	24.98	46.853	
3,900.0	3,858.1	4,336.0	4,117.0	11.8	24.6	121.09	955.4	202.5	1,154.4	1,128.7	25.65	45.004	
4,000.0	3,956.8	4,443.1	4,219.7	12.1	25.2	120.97	947.8	173.1	1,138.8	1,112.5	26.34	43.238	
4,100.0	4,055.5	4,555.0	4,326.8	12.4	25.8	120.84	938.9	141.8	1,122.2	1,095.1	27.06	41.465	
4,200.0	4,154.2	4,669.6	4,435.7	12.7	26.5	120.65	929.1	107.7	1,103.8	1,076.0	27.83	39.660	
4,300.0	4,253.0	4,759.2	4,520.9	13.1	27.0	120.52	920.9	81.2	1,085.2	1,056.8	28.48	38.107	
4,400.0	4,351.7	4,859.0	4,616.1	13.4	27.6	120.43	911.4	52.7	1,067.0	1,037.9	29.13	36.624	
4,500.0	4,450.4	4,952.8	4,705.5	13.7	28.1	120.33	902.6	25.8	1,048.9	1,019.1	29.79	35.210	
4,600.0	4,549.1	5,058.7	4,806.3	14.1	28.7	120.18	892.9	-5.1	1,030.6	1,000.1	30.52	33.769	
4,700.0	4,647.9	5,148.2	4,891.3	14.4	29.3	119.95	885.9	-32.4	1,012.3	981.1	31.25	32.398	
4,800.0	4,746.6	5,224.9	4,964.5	14.7	29.7	119.80	880.1	-54.3	995.7	963.8	31.86	31.253	
4,900.0	4,845.3	5,295.0	5,032.2	15.1	30.0	119.77	875.0	-72.0	981.6	949.2	32.38	30.315	
5,000.0	4,944.1	5,371.3	5,106.3	15.4	30.3	119.77	870.7	-89.6	970.0	937.1	32.91	29.473	
5,100.0	5,042.8	5,445.0	5,178.2	15.7	30.6	119.76	868.0	-105.4	961.1	927.7	33.43	28.750	
5,200.0	5,141.5	5,513.0	5,245.0	16.1	30.9	119.79	866.6	-118.3	955.1	921.2	33.90	28.171	
5,300.0	5,240.2	5,583.3	5,314.4	16.4	31.0	119.88	866.5	-129.3	952.6	918.2	34.34	27.739	
5,355.2	5,294.7	5,627.6	5,358.3	16.6	31.2	119.97	866.6	-135.2	952.2	917.7	34.56	27.554	CC, ES
5,400.0	5,339.0	5,665.1	5,395.5	16.7	31.2	120.08	866.7	-139.6	952.4	917.7	34.72	27.431	
5,500.0	5,437.7	5,750.8	5,480.8	17.0	31.4	120.39	866.8	-148.3	953.9	918.9	35.04	27.221	
5,600.0	5,536.4	5,832.7	5,562.5	17.4	31.5	120.74	867.4	-155.0	957.1	921.8	35.32	27.096	
5,700.0	5,635.1	5,910.8	5,640.4	17.7	31.6	121.14	868.4	-159.5	962.5	926.9	35.55	27.071	SF
5,800.0	5,733.9	6,000.5	5,730.0	18.0	31.7	121.63	870.3	-163.1	969.6	933.8	35.76	27.114	
5,900.0	5,832.6	6,101.6	5,831.0	18.4	31.8	122.20	872.4	-166.8	977.1	941.2	35.94	27.192	
6,000.0	5,931.3	6,207.4	5,936.8	18.7	31.9	122.85	873.4	-170.1	984.3	948.3	36.06	27.299	
6,100.0	6,030.0	6,298.1	6,027.4	19.0	32.0	123.45	873.5	-172.4	991.4	955.2	36.17	27.413	
6,200.0	6,128.8	6,384.3	6,113.7	19.4	32.1	124.07	874.0	-172.9	1,000.2	964.0	36.25	27.590	
6,300.0	6,227.5	6,484.0	6,213.3	19.7	32.1	124.78	874.8	-173.3	1,009.6	973.3	36.32	27.801	
6,400.0	6,326.2	6,584.4	6,313.7	20.0	32.2	125.47	875.5	-173.8	1,018.9	982.5	36.38	28.005	
6,500.0	6,425.0	6,682.3	6,411.6	20.3	32.3	126.13	876.2	-174.3	1,028.4	991.9	36.47	28.201	
6,600.0	6,523.7	6,781.7	6,511.0	20.7	32.3	126.79	876.9	-174.9	1,038.0	1,001.5	36.55	28.402	
6,700.0	6,622.4	6,882.4	6,611.7	21.0	32.4	127.45	877.4	-175.3	1,047.6	1,011.0	36.62	28.605	
6,800.0	6,721.1	6,982.4	6,711.7	21.3	32.5	128.11	877.7	-175.9	1,057.2	1,020.5	36.71	28.802	
6,900.0	6,819.9	7,080.4	6,809.7	21.7	32.5	128.74	878.0	-176.4	1,067.0	1,030.2	36.79	29.000	
7,000.0	6,918.4	7,179.8	6,909.1	22.0	32.6	-179.93	878.1	-176.7	1,081.6	1,045.4	36.26	29.833	
7,100.0	7,014.7	7,278.5	7,007.8	22.2	32.7	-155.64	878.0	-177.1	1,107.0	1,072.2	34.71	31.890	
7,200.0	7,105.8	7,374.5	7,103.8	22.5	32.8	-144.89	877.7	-177.7	1,142.4	1,110.0	32.41	35.247	
7,300.0	7,189.0	7,463.0	7,192.3	22.7	32.9	-138.13	877.7	-179.0	1,187.4	1,157.7	29.69	39.987	
7,400.0	7,261.6	7,534.0	7,263.3	22.9	32.9	-132.13	877.6	-180.2	1,241.7	1,214.6	27.12	45.792	

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

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Grant Elmquist 2B-14H-C268
Project:	DJ Wattenberg	**TVD Reference:**	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	**MD Reference:**	KB @ 4894.0ft
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Grant Elmquist 2B-14H-C268	**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 S14-T2N-R68W (Grant Elmquist/Salisbury) - Grant Elmquist 2A-14H-C268 - Hz - Plan #2

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-90.00	0.0	-8.4	8.4				
100.0	100.0	100.0	100.0	0.2	0.2	-90.00	0.0	-8.4	8.4	8.1	0.30	27.617	
200.0	200.0	200.0	200.0	0.3	0.3	-90.00	0.0	-8.4	8.4	7.7	0.65	12.848	CC, ES
300.0	300.0	299.7	299.7	0.5	0.5	-88.58	0.3	-10.1	10.1	9.1	1.00	10.065	
400.0	400.0	399.2	399.0	0.7	0.7	-8.16	1.0	-15.2	13.6	12.2	1.35	10.058	
500.0	499.8	498.6	498.1	0.9	0.9	-7.87	2.2	-23.8	17.0	15.3	1.70	10.039	
600.0	599.5	597.9	596.6	1.1	1.2	-8.14	4.0	-35.7	20.5	18.5	2.05	10.023	
700.0	698.7	697.1	694.6	1.3	1.5	-8.71	6.2	-51.0	24.0	21.6	2.39	10.004	
800.0	797.5	796.1	791.8	1.6	1.9	-9.38	8.9	-69.5	27.7	25.0	2.75	10.080	
900.0	896.2	895.8	889.2	1.9	2.3	-9.56	12.0	-90.5	33.2	30.1	3.11	10.688	
1,000.0	995.0	995.6	986.7	2.3	2.7	-9.67	15.1	-111.6	38.8	35.4	3.47	11.187	
1,100.0	1,093.7	1,095.5	1,084.3	2.6	3.1	-9.76	18.1	-132.7	44.4	40.6	3.83	11.589	
1,200.0	1,192.4	1,195.3	1,181.8	2.9	3.5	-9.82	21.2	-153.7	50.0	45.8	4.19	11.921	
1,300.0	1,291.2	1,295.2	1,279.4	3.2	3.9	-9.88	24.3	-174.8	55.6	51.0	4.56	12.199	
1,400.0	1,389.9	1,395.0	1,376.9	3.5	4.3	-9.92	27.4	-195.9	61.2	56.3	4.92	12.436	
1,500.0	1,488.6	1,494.8	1,474.5	3.9	4.7	-9.96	30.4	-217.0	66.8	61.5	5.28	12.639	
1,600.0	1,587.3	1,594.7	1,572.0	4.2	5.1	-9.99	33.5	-238.0	72.4	66.7	5.65	12.816	
1,700.0	1,686.1	1,694.5	1,669.6	4.5	5.5	-10.01	36.6	-259.1	78.0	72.0	6.01	12.972	
1,800.0	1,784.8	1,794.4	1,767.1	4.8	5.9	-10.04	39.7	-280.2	83.6	77.2	6.37	13.109	
1,900.0	1,883.5	1,894.2	1,864.7	5.2	6.4	-10.06	42.7	-301.3	89.1	82.4	6.74	13.231	
2,000.0	1,982.2	1,994.1	1,962.2	5.5	6.8	-10.07	45.8	-322.4	94.7	87.6	7.10	13.341	
2,100.0	2,081.0	2,093.9	2,059.7	5.8	7.2	-10.09	48.9	-343.4	100.3	92.9	7.46	13.440	
2,200.0	2,179.7	2,193.7	2,157.3	6.2	7.6	-10.10	51.9	-364.5	105.9	98.1	7.83	13.529	
2,300.0	2,278.4	2,293.6	2,254.8	6.5	8.0	-10.12	55.0	-385.6	111.5	103.3	8.19	13.611	
2,400.0	2,377.1	2,393.4	2,352.4	6.8	8.4	-10.13	58.1	-406.7	117.1	108.5	8.56	13.685	
2,500.0	2,475.9	2,493.3	2,449.9	7.1	8.9	-10.14	61.2	-427.7	122.7	113.8	8.92	13.753	
2,600.0	2,574.6	2,593.1	2,547.5	7.5	9.3	-10.15	64.2	-448.8	128.3	119.0	9.28	13.816	
2,700.0	2,673.3	2,693.0	2,645.0	7.8	9.7	-10.16	67.3	-469.9	133.9	124.2	9.65	13.874	
2,800.0	2,772.1	2,792.8	2,742.6	8.1	10.1	-10.16	70.4	-491.0	139.5	129.4	10.01	13.928	
2,900.0	2,870.8	2,892.6	2,840.1	8.5	10.5	-10.17	73.5	-512.1	145.0	134.7	10.38	13.978	
3,000.0	2,969.5	2,992.5	2,937.7	8.8	10.9	-10.18	76.5	-533.1	150.6	139.9	10.74	14.025	
3,100.0	3,068.2	3,092.3	3,035.2	9.1	11.4	-10.18	79.6	-554.2	156.2	145.1	11.11	14.068	
3,200.0	3,167.0	3,192.2	3,132.7	9.4	11.8	-10.19	82.7	-575.3	161.8	150.3	11.47	14.109	
3,300.0	3,265.7	3,292.0	3,230.3	9.8	12.2	-10.20	85.8	-596.4	167.4	155.6	11.83	14.147	
3,400.0	3,364.4	3,391.9	3,327.8	10.1	12.6	-10.20	88.8	-617.4	173.0	160.8	12.20	14.183	
3,500.0	3,463.1	3,491.7	3,425.4	10.4	13.0	-10.21	91.9	-638.5	178.6	166.0	12.56	14.217	
3,600.0	3,561.9	3,591.6	3,522.9	10.8	13.4	-10.21	95.0	-659.6	184.2	171.3	12.93	14.249	
3,700.0	3,660.6	3,691.4	3,620.5	11.1	13.9	-10.21	98.1	-680.7	189.8	176.5	13.29	14.279	
3,800.0	3,759.3	3,791.2	3,718.0	11.4	14.3	-10.22	101.1	-701.7	195.4	181.7	13.65	14.307	
3,900.0	3,858.1	3,891.1	3,815.6	11.8	14.7	-10.22	104.2	-722.8	201.0	186.9	14.02	14.334	
4,000.0	3,956.8	3,990.9	3,913.1	12.1	15.1	-10.23	107.3	-743.9	206.5	192.2	14.38	14.360	
4,100.0	4,055.5	4,090.8	4,010.6	12.4	15.5	-10.23	110.4	-765.0	212.1	197.4	14.75	14.384	
4,200.0	4,154.2	4,190.6	4,108.2	12.7	16.0	-10.23	113.4	-786.1	217.7	202.6	15.11	14.407	
4,300.0	4,253.0	4,290.5	4,205.7	13.1	16.4	-10.24	116.5	-807.1	223.3	207.8	15.48	14.430	
4,400.0	4,351.7	4,390.3	4,303.3	13.4	16.8	-10.24	119.6	-828.2	228.9	213.1	15.84	14.451	
4,500.0	4,450.4	4,490.1	4,400.8	13.7	17.2	-10.24	122.7	-849.3	234.5	218.3	16.20	14.471	
4,600.0	4,549.1	4,590.0	4,498.4	14.1	17.6	-10.24	125.7	-870.4	240.1	223.5	16.57	14.490	
4,700.0	4,647.9	4,689.8	4,595.9	14.4	18.0	-10.25	128.8	-891.4	245.7	228.7	16.93	14.508	
4,800.0	4,746.6	4,789.7	4,693.5	14.7	18.5	-10.25	131.9	-912.5	251.3	234.0	17.30	14.526	
4,900.0	4,845.3	4,889.5	4,791.0	15.1	18.9	-10.25	135.0	-933.6	256.9	239.2	17.66	14.543	
5,000.0	4,944.1	4,989.4	4,888.6	15.4	19.3	-10.25	138.0	-954.7	262.4	244.4	18.03	14.559	
5,100.0	5,042.8	5,089.2	4,986.1	15.7	19.7	-10.26	141.1	-975.7	268.0	249.6	18.39	14.574	

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

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Grant Elmquist 2B-14H-C268
Project:	DJ Wattenberg	**TVD Reference:**	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	**MD Reference:**	KB @ 4894.0ft
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Grant Elmquist 2B-14H-C268	**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 S14-T2N-R68W (Grant Elmquist/Salisbury) - Grant Elmquist 2A-14H-C268 - Hz - Plan #2

Survey Program: 0-MWD

Offset Site Error: 0.0 ft

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
5,200.0	5,141.5	5,189.1	5,083.6	16.1	20.1	-10.26	144.2	-996.8	273.6	254.9	18.76	14.589	
5,300.0	5,240.2	5,288.9	5,181.2	16.4	20.5	-10.26	147.3	-1,017.9	279.2	260.1	19.12	14.604	
5,400.0	5,339.0	5,388.7	5,278.7	16.7	21.0	-10.26	150.3	-1,039.0	284.8	265.3	19.48	14.618	
5,500.0	5,437.7	5,488.6	5,376.3	17.0	21.4	-10.26	153.4	-1,060.1	290.4	270.6	19.85	14.631	
5,600.0	5,536.4	5,588.4	5,473.8	17.4	21.8	-10.26	156.5	-1,081.1	296.0	275.8	20.21	14.644	
5,700.0	5,635.1	5,688.3	5,571.4	17.7	22.2	-10.27	159.6	-1,102.2	301.6	281.0	20.58	14.656	
5,800.0	5,733.9	5,788.1	5,668.9	18.0	22.6	-10.27	162.6	-1,123.3	307.2	286.2	20.94	14.668	
5,900.0	5,832.6	5,888.0	5,766.5	18.4	23.1	-10.27	165.7	-1,144.4	312.8	291.5	21.31	14.680	
6,000.0	5,931.3	5,987.8	5,864.0	18.7	23.5	-10.27	168.8	-1,165.4	318.4	296.7	21.67	14.691	
6,100.0	6,030.0	6,087.6	5,961.5	19.0	23.9	-10.27	171.9	-1,186.5	323.9	301.9	22.03	14.701	
6,200.0	6,128.8	6,187.5	6,059.1	19.4	24.3	-10.27	174.9	-1,207.6	329.5	307.1	22.40	14.712	
6,300.0	6,227.5	6,287.3	6,156.6	19.7	24.7	-10.27	178.0	-1,228.7	335.1	312.4	22.76	14.722	
6,400.0	6,326.2	6,387.2	6,254.2	20.0	25.1	-10.28	181.1	-1,249.8	340.7	317.6	23.13	14.732	
6,500.0	6,425.0	6,487.0	6,351.7	20.3	25.6	-10.28	184.2	-1,270.8	346.3	322.8	23.49	14.741	
6,600.0	6,523.7	6,586.9	6,449.3	20.7	26.0	-10.28	187.2	-1,291.9	351.9	328.0	23.86	14.750	
6,700.0	6,622.4	6,686.7	6,546.8	21.0	26.4	-10.28	190.3	-1,313.0	357.5	333.3	24.22	14.759	
6,800.0	6,721.1	6,786.7	6,644.5	21.3	26.8	-10.35	192.9	-1,334.1	363.1	338.5	24.59	14.764	
6,900.0	6,819.9	6,885.2	6,740.3	21.7	27.2	-12.26	183.7	-1,354.8	368.8	343.5	25.26	14.598	
7,000.0	6,918.4	6,979.3	6,829.0	22.0	27.5	33.93	159.3	-1,374.0	375.5	349.2	26.27	14.291	
7,100.0	7,014.7	7,070.4	6,910.1	22.2	27.8	53.08	121.9	-1,391.5	382.9	355.9	27.01	14.177	
7,200.0	7,105.8	7,159.0	6,982.4	22.5	28.0	58.79	73.4	-1,407.1	390.6	363.3	27.27	14.324	
7,300.0	7,189.0	7,245.6	7,045.2	22.7	28.3	60.46	15.5	-1,420.7	397.9	370.9	27.01	14.732	
7,400.0	7,261.6	7,330.5	7,097.8	22.9	28.6	60.70	-50.1	-1,432.0	404.6	378.1	26.42	15.312	
7,500.0	7,321.6	7,414.1	7,139.9	23.2	28.8	60.44	-121.7	-1,441.1	410.0	384.3	25.80	15.895	
7,600.0	7,367.1	7,500.0	7,172.0	23.6	29.1	60.05	-201.0	-1,448.1	414.1	388.4	25.64	16.148	
7,700.0	7,396.7	7,578.8	7,190.9	24.0	29.5	59.81	-277.3	-1,452.2	416.3	389.9	26.41	15.763	
7,800.0	7,409.5	7,660.5	7,199.6	24.6	29.8	59.72	-358.4	-1,454.0	416.8	388.5	28.32	14.719	
7,900.0	7,410.0	7,755.6	7,200.0	25.2	30.3	59.67	-453.6	-1,454.1	415.9	385.7	30.24	13.752	
8,000.0	7,410.0	7,855.6	7,200.0	25.9	30.9	59.60	-553.6	-1,454.1	415.0	382.9	32.12	12.922	
8,100.0	7,410.0	7,955.6	7,200.0	26.7	31.6	59.53	-653.6	-1,454.1	414.1	380.0	34.15	12.125	
8,200.0	7,410.0	8,055.6	7,200.0	27.7	32.3	59.45	-753.6	-1,454.1	413.2	376.9	36.32	11.376	
8,300.0	7,410.0	8,155.6	7,200.0	28.7	33.1	59.38	-853.6	-1,454.1	412.3	373.7	38.60	10.681	
8,400.0	7,410.0	8,255.6	7,200.0	29.7	34.0	59.31	-953.5	-1,454.1	411.4	370.4	40.97	10.041	
8,500.0	7,410.0	8,355.6	7,200.0	30.8	35.0	59.23	-1,053.5	-1,454.1	410.5	367.1	43.42	9.455	
8,600.0	7,410.0	8,455.6	7,200.0	32.0	36.0	59.16	-1,153.5	-1,454.1	409.6	363.7	45.92	8.919	
8,700.0	7,410.0	8,555.6	7,200.0	33.3	37.1	59.08	-1,253.5	-1,454.1	408.7	360.2	48.48	8.430	
8,800.0	7,410.0	8,655.6	7,200.0	34.5	38.2	59.00	-1,353.5	-1,454.1	407.8	356.7	51.08	7.983	
8,900.0	7,410.0	8,755.6	7,200.0	35.9	39.4	58.93	-1,453.5	-1,454.1	406.9	353.2	53.72	7.575	
9,000.0	7,410.0	8,855.6	7,200.0	37.2	40.6	58.85	-1,553.5	-1,454.1	406.0	349.6	56.39	7.201	
9,100.0	7,410.0	8,955.6	7,200.0	38.6	41.9	58.78	-1,653.5	-1,454.1	405.1	346.0	59.08	6.858	
9,200.0	7,410.0	9,055.6	7,200.0	40.0	43.2	58.70	-1,753.5	-1,454.1	404.2	342.4	61.79	6.542	
9,300.0	7,410.0	9,155.6	7,200.0	41.5	44.5	58.62	-1,853.5	-1,454.1	403.3	338.8	64.52	6.251	
9,400.0	7,410.0	9,255.5	7,200.0	42.9	45.9	58.54	-1,953.5	-1,454.1	402.4	335.2	67.26	5.983	
9,500.0	7,410.0	9,355.5	7,200.0	44.4	47.2	58.47	-2,053.5	-1,454.1	401.5	331.5	70.02	5.735	
9,600.0	7,410.0	9,455.5	7,200.0	45.9	48.7	58.39	-2,153.5	-1,454.1	400.7	327.9	72.79	5.504	
9,700.0	7,410.0	9,555.5	7,200.0	47.4	50.1	58.31	-2,253.5	-1,454.1	399.8	324.2	75.56	5.290	
9,800.0	7,410.0	9,655.5	7,200.0	49.0	51.5	58.23	-2,353.5	-1,454.1	398.9	320.5	78.35	5.091	
9,900.0	7,410.0	9,755.5	7,200.0	50.5	53.0	58.15	-2,453.5	-1,454.1	398.0	316.8	81.13	4.905	
10,000.0	7,410.0	9,855.5	7,200.0	52.1	54.5	58.07	-2,553.5	-1,454.1	397.1	313.2	83.93	4.731	
10,100.0	7,410.0	9,955.5	7,200.0	53.7	56.0	57.99	-2,653.5	-1,454.1	396.2	309.5	86.72	4.569	
10,200.0	7,410.0	10,055.5	7,200.0	55.3	57.5	57.91	-2,753.4	-1,454.1	395.3	305.8	89.52	4.416	
10,300.0	7,410.0	10,155.5	7,200.0	56.9	59.0	57.83	-2,853.4	-1,454.1	394.4	302.1	92.32	4.272	

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

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Grant Elmquist 2B-14H-C268
Project:	DJ Wattenberg	**TVD Reference:**	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	**MD Reference:**	KB @ 4894.0ft
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Grant Elmquist 2B-14H-C268	**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 S14-T2N-R68W (Grant Elmquist/Salisbury) - Grant Elmquist 2A-14H-C268 - Hz - Plan #2

Survey Program: 0-MWD

Offset Site Error: 0.0 ft

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
10,400.0	7,410.0	10,255.5	7,200.0	58.5	60.6	57.75	-2,953.4	-1,454.1	393.5	298.4	95.12	4.137	
10,500.0	7,410.0	10,355.5	7,200.0	60.1	62.1	57.67	-3,053.4	-1,454.1	392.7	294.7	97.92	4.010	
10,600.0	7,410.0	10,455.5	7,200.0	61.7	63.7	57.59	-3,153.4	-1,454.1	391.8	291.1	100.72	3.890	
10,700.0	7,410.0	10,555.5	7,200.0	63.3	65.3	57.50	-3,253.4	-1,454.1	390.9	287.4	103.52	3.776	
10,800.0	7,410.0	10,655.5	7,200.0	65.0	66.8	57.42	-3,353.4	-1,454.1	390.0	283.7	106.32	3.668	
10,900.0	7,410.0	10,755.5	7,200.0	66.6	68.4	57.34	-3,453.4	-1,454.1	389.1	280.0	109.12	3.566	
11,000.0	7,410.0	10,855.5	7,200.0	68.3	70.0	57.25	-3,553.4	-1,454.1	388.2	276.3	111.91	3.469	
11,100.0	7,410.0	10,955.5	7,200.0	69.9	71.6	57.17	-3,653.4	-1,454.1	387.4	272.7	114.71	3.377	
11,200.0	7,410.0	11,055.4	7,200.0	71.6	73.2	57.09	-3,753.4	-1,454.1	386.5	269.0	117.50	3.289	
11,300.0	7,410.0	11,155.4	7,200.0	73.2	74.9	57.00	-3,853.4	-1,454.1	385.6	265.3	120.28	3.206	
11,400.0	7,410.0	11,255.4	7,200.0	74.9	76.5	56.92	-3,953.4	-1,454.1	384.7	261.7	123.07	3.126	
11,500.0	7,410.0	11,355.4	7,200.0	76.6	78.1	56.83	-4,053.4	-1,454.1	383.9	258.0	125.85	3.050	
11,600.0	7,410.0	11,455.4	7,200.0	78.2	79.7	56.75	-4,153.4	-1,454.1	383.0	254.4	128.62	2.978	
11,700.0	7,410.0	11,555.4	7,200.0	79.9	81.4	56.66	-4,253.4	-1,454.1	382.1	250.7	131.39	2.908	
11,800.0	7,410.0	11,655.4	7,200.0	81.6	83.0	56.57	-4,353.4	-1,454.1	381.2	247.1	134.16	2.842	
11,900.0	7,410.0	11,755.4	7,200.0	83.3	84.7	56.49	-4,453.4	-1,454.1	380.4	243.4	136.92	2.778	
12,000.0	7,410.0	11,855.4	7,200.0	85.0	86.3	56.40	-4,553.3	-1,454.1	379.5	239.8	139.68	2.717	
12,100.0	7,410.0	11,955.4	7,200.0	86.7	88.0	56.31	-4,653.3	-1,454.1	378.6	236.2	142.43	2.658	
12,200.0	7,410.0	12,055.4	7,200.0	88.4	89.7	56.22	-4,753.3	-1,454.1	377.7	232.6	145.18	2.602	
12,282.9	7,410.0	12,138.3	7,200.0	89.8	91.0	56.19	-4,836.2	-1,454.1	377.4	230.3	147.12	2.565	
12,300.0	7,410.0	12,155.4	7,200.0	90.0	91.3	56.18	-4,853.3	-1,454.1	377.3	229.8	147.51	2.558	
12,400.0	7,410.0	12,255.4	7,200.0	91.7	93.0	56.28	-4,953.3	-1,454.1	378.4	228.5	149.91	2.524	
12,500.0	7,410.0	12,355.3	7,200.0	93.4	94.7	56.52	-5,053.3	-1,454.1	380.8	228.1	152.65	2.495	
12,600.0	7,410.0	12,455.3	7,200.0	95.1	96.3	56.80	-5,153.2	-1,454.1	383.7	227.7	156.02	2.459	
12,700.0	7,410.0	12,555.2	7,200.0	96.8	98.0	57.08	-5,253.2	-1,454.1	386.6	227.2	159.39	2.425	
12,800.0	7,410.0	12,655.2	7,200.0	98.5	99.7	57.35	-5,353.1	-1,454.1	389.5	226.7	162.78	2.393	
12,900.0	7,410.0	12,755.1	7,200.0	100.2	101.4	57.63	-5,453.0	-1,454.1	392.4	226.2	166.17	2.361	
13,000.0	7,410.0	12,855.0	7,200.0	101.9	103.1	57.89	-5,553.0	-1,454.1	395.3	225.7	169.58	2.331	
13,100.0	7,410.0	12,955.0	7,200.0	103.6	104.7	58.16	-5,652.9	-1,454.1	398.2	225.2	172.99	2.302	
13,200.0	7,410.0	13,054.9	7,200.0	105.3	106.4	58.41	-5,752.9	-1,454.1	401.1	224.7	176.41	2.274	
13,300.0	7,410.0	13,154.9	7,200.0	107.0	108.1	58.67	-5,852.8	-1,454.1	404.1	224.2	179.83	2.247	
13,400.0	7,410.0	13,254.8	7,200.0	108.7	109.8	58.92	-5,952.8	-1,454.1	407.0	223.7	183.26	2.221	
13,500.0	7,410.0	13,354.7	7,200.0	110.4	111.5	59.17	-6,052.7	-1,454.1	409.9	223.2	186.70	2.196	
13,600.0	7,410.0	13,454.7	7,200.0	112.1	113.2	59.42	-6,152.6	-1,454.1	412.9	222.8	190.15	2.172	
13,700.0	7,410.0	13,554.6	7,200.0	113.8	114.9	59.66	-6,252.6	-1,454.1	415.9	222.3	193.60	2.148	
13,800.0	7,410.0	13,654.6	7,200.0	115.5	116.6	59.89	-6,352.5	-1,454.1	418.9	221.8	197.06	2.126	
13,900.0	7,410.0	13,754.5	7,200.0	117.2	118.3	60.13	-6,452.5	-1,454.1	421.8	221.3	200.52	2.104	
14,000.0	7,410.0	13,854.4	7,200.0	118.9	120.0	60.36	-6,552.4	-1,454.1	424.8	220.8	203.99	2.083	
14,100.0	7,410.0	13,954.4	7,200.0	120.6	121.7	60.59	-6,652.3	-1,454.1	427.8	220.4	207.46	2.062	
14,157.7	7,410.0	14,012.0	7,200.0	121.6	122.7	60.72	-6,710.0	-1,454.1	429.5	220.1	209.47	2.051	SF

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Grant Elmquist 2B-14H-C268
Project:	DJ Wattenberg	**TVD Reference:**	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	**MD Reference:**	KB @ 4894.0ft
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Grant Elmquist 2B-14H-C268	**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 S14-T2N-R68W (Grant Elmquist/Salisbury) - Grant Elmquist 2C-14H-C268 - Hz - Plan #2

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	90.00	0.0	11.2	11.2				
100.0	100.0	100.0	100.0	0.2	0.2	90.00	0.0	11.2	11.2	10.9	0.30	36.822	
200.0	200.0	200.0	200.0	0.3	0.3	90.00	0.0	11.2	11.2	10.5	0.65	17.131	
300.0	300.0	300.0	300.0	0.5	0.5	90.00	0.0	11.2	11.2	10.2	1.00	11.162	CC, ES
400.0	400.0	400.0	400.0	0.7	0.7	170.47	0.0	11.2	12.9	11.5	1.35	9.552	
500.0	499.8	500.4	500.4	0.9	0.9	171.77	0.5	9.5	16.4	14.7	1.70	9.645	
600.0	599.5	601.0	600.8	1.1	1.0	171.41	2.2	4.5	19.9	17.9	2.05	9.738	
700.0	698.7	701.6	701.0	1.3	1.3	170.16	4.9	-3.9	23.6	21.2	2.40	9.823	
800.0	797.5	801.4	800.4	1.6	1.5	169.50	8.0	-13.7	28.9	26.1	2.76	10.476	
900.0	896.2	901.3	899.7	1.9	1.7	169.23	11.2	-23.4	34.8	31.6	3.12	11.144	
1,000.0	995.0	1,001.1	998.9	2.3	1.9	169.04	14.3	-33.2	40.6	37.1	3.48	11.669	
1,100.0	1,093.7	1,100.9	1,098.2	2.6	2.2	168.90	17.5	-43.0	46.5	42.7	3.85	12.091	
1,200.0	1,192.4	1,200.7	1,197.5	2.9	2.4	168.79	20.6	-52.8	52.4	48.2	4.21	12.439	
1,300.0	1,291.2	1,300.6	1,296.8	3.2	2.7	168.71	23.8	-62.5	58.2	53.7	4.58	12.729	
1,400.0	1,389.9	1,400.4	1,396.1	3.5	2.9	168.63	26.9	-72.3	64.1	59.2	4.94	12.976	
1,500.0	1,488.6	1,500.2	1,495.4	3.9	3.2	168.58	30.0	-82.1	70.0	64.7	5.31	13.187	
1,600.0	1,587.3	1,600.1	1,594.7	4.2	3.4	168.53	33.2	-91.8	75.9	70.2	5.67	13.371	
1,700.0	1,686.1	1,699.9	1,694.0	4.5	3.7	168.48	36.3	-101.6	81.7	75.7	6.04	13.532	
1,800.0	1,784.8	1,799.7	1,793.3	4.8	3.9	168.44	39.5	-111.4	87.6	81.2	6.41	13.673	
1,900.0	1,883.5	1,899.5	1,892.6	5.2	4.1	168.41	42.6	-121.1	93.5	86.7	6.77	13.800	
2,000.0	1,982.2	1,999.4	1,991.9	5.5	4.4	168.38	45.8	-130.9	99.3	92.2	7.14	13.913	
2,100.0	2,081.0	2,099.2	2,091.2	5.8	4.6	168.36	48.9	-140.7	105.2	97.7	7.51	14.014	
2,200.0	2,179.7	2,199.0	2,190.5	6.2	4.9	168.33	52.1	-150.4	111.1	103.2	7.88	14.107	
2,300.0	2,278.4	2,298.8	2,289.8	6.5	5.1	168.31	55.2	-160.2	117.0	108.7	8.24	14.190	
2,400.0	2,377.1	2,398.7	2,389.1	6.8	5.4	168.30	58.4	-170.0	122.8	114.2	8.61	14.267	
2,500.0	2,475.9	2,498.5	2,488.4	7.1	5.6	168.28	61.5	-179.8	128.7	119.7	8.98	14.337	
2,600.0	2,574.6	2,598.3	2,587.7	7.5	5.9	168.26	64.7	-189.5	134.6	125.2	9.35	14.401	
2,700.0	2,673.3	2,698.2	2,687.0	7.8	6.1	168.25	67.8	-199.3	140.5	130.7	9.71	14.461	
2,800.0	2,772.1	2,798.0	2,786.3	8.1	6.4	168.24	71.0	-209.1	146.3	136.3	10.08	14.516	
2,900.0	2,870.8	2,897.8	2,885.6	8.5	6.6	168.22	74.1	-218.8	152.2	141.8	10.45	14.567	
3,000.0	2,969.5	2,997.6	2,984.9	8.8	6.9	168.21	77.3	-228.6	158.1	147.3	10.82	14.615	
3,100.0	3,068.2	3,097.5	3,084.2	9.1	7.1	168.20	80.4	-238.4	164.0	152.8	11.18	14.659	
3,200.0	3,167.0	3,197.3	3,183.5	9.4	7.4	168.19	83.6	-248.1	169.8	158.3	11.55	14.701	
3,300.0	3,265.7	3,297.1	3,282.8	9.8	7.6	168.18	86.7	-257.9	175.7	163.8	11.92	14.740	
3,400.0	3,364.4	3,396.9	3,382.1	10.1	7.9	168.18	89.9	-267.7	181.6	169.3	12.29	14.776	
3,500.0	3,463.1	3,496.8	3,481.4	10.4	8.1	168.17	93.0	-277.4	187.4	174.8	12.66	14.811	
3,600.0	3,561.9	3,596.6	3,580.7	10.8	8.4	168.16	96.2	-287.2	193.3	180.3	13.02	14.843	
3,700.0	3,660.6	3,696.4	3,680.0	11.1	8.6	168.15	99.3	-297.0	199.2	185.8	13.39	14.874	
3,800.0	3,759.3	3,796.3	3,779.3	11.4	8.9	168.15	102.5	-306.8	205.1	191.3	13.76	14.903	
3,900.0	3,858.1	3,896.1	3,878.6	11.8	9.1	168.14	105.6	-316.5	210.9	196.8	14.13	14.930	
4,000.0	3,956.8	3,995.9	3,977.9	12.1	9.4	168.14	108.7	-326.3	216.8	202.3	14.50	14.956	
4,100.0	4,055.5	4,095.7	4,077.2	12.4	9.6	168.13	111.9	-336.1	222.7	207.8	14.86	14.981	
4,200.0	4,154.2	4,195.6	4,176.5	12.7	9.9	168.12	115.0	-345.8	228.6	213.3	15.23	15.005	
4,300.0	4,253.0	4,295.4	4,275.8	13.1	10.1	168.12	118.2	-355.6	234.4	218.8	15.60	15.027	
4,400.0	4,351.7	4,395.2	4,375.1	13.4	10.4	168.11	121.3	-365.4	240.3	224.3	15.97	15.048	
4,500.0	4,450.4	4,495.1	4,474.4	13.7	10.6	168.11	124.5	-375.1	246.2	229.8	16.34	15.069	
4,600.0	4,549.1	4,594.9	4,573.7	14.1	10.9	168.11	127.6	-384.9	252.0	235.3	16.70	15.088	
4,700.0	4,647.9	4,694.7	4,673.0	14.4	11.1	168.10	130.8	-394.7	257.9	240.8	17.07	15.107	
4,800.0	4,746.6	4,794.5	4,772.3	14.7	11.4	168.10	133.9	-404.4	263.8	246.3	17.44	15.125	
4,900.0	4,845.3	4,894.4	4,871.6	15.1	11.6	168.09	137.1	-414.2	269.7	251.9	17.81	15.142	
5,000.0	4,944.1	4,994.2	4,970.9	15.4	11.9	168.09	140.2	-424.0	275.5	257.4	18.18	15.158	
5,100.0	5,042.8	5,094.0	5,070.2	15.7	12.1	168.09	143.4	-433.8	281.4	262.9	18.55	15.174	

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

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Grant Elmquist 2B-14H-C268
Project:	DJ Wattenberg	**TVD Reference:**	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	**MD Reference:**	KB @ 4894.0ft
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Grant Elmquist 2B-14H-C268	**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 S14-T2N-R68W (Grant Elmquist/Salisbury) - Grant Elmquist 2C-14H-C268 - Hz - Plan #2

Survey Program: 0-MWD

Offset Site Error: 0.0 ft

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
5,200.0	5,141.5	5,193.8	5,169.5	16.1	12.4	168.08	146.5	-443.5	287.3	268.4	18.91	15.189	
5,300.0	5,240.2	5,293.7	5,268.8	16.4	12.6	168.08	149.7	-453.3	293.2	273.9	19.28	15.204	
5,400.0	5,339.0	5,393.5	5,368.1	16.7	12.9	168.08	152.8	-463.1	299.0	279.4	19.65	15.218	
5,500.0	5,437.7	5,493.3	5,467.4	17.0	13.1	168.07	156.0	-472.8	304.9	284.9	20.02	15.231	
5,600.0	5,536.4	5,593.2	5,566.7	17.4	13.4	168.07	159.1	-482.6	310.8	290.4	20.39	15.244	
5,700.0	5,635.1	5,693.0	5,666.0	17.7	13.6	168.07	162.3	-492.4	316.6	295.9	20.75	15.257	
5,800.0	5,733.9	5,792.8	5,765.3	18.0	13.9	168.07	165.4	-502.1	322.5	301.4	21.12	15.269	
5,900.0	5,832.6	5,892.6	5,864.6	18.4	14.1	168.06	168.6	-511.9	328.4	306.9	21.49	15.281	
6,000.0	5,931.3	5,992.5	5,963.9	18.7	14.4	168.06	171.7	-521.7	334.3	312.4	21.86	15.292	
6,100.0	6,030.0	6,092.3	6,063.2	19.0	14.6	168.06	174.9	-531.4	340.1	317.9	22.23	15.303	
6,200.0	6,128.8	6,192.1	6,162.5	19.4	14.9	168.06	178.0	-541.2	346.0	323.4	22.60	15.313	
6,300.0	6,227.5	6,291.9	6,261.8	19.7	15.1	168.05	181.2	-551.0	351.9	328.9	22.96	15.323	
6,400.0	6,326.2	6,391.8	6,361.1	20.0	15.4	168.05	184.3	-560.8	357.8	334.4	23.33	15.333	
6,500.0	6,425.0	6,491.6	6,460.4	20.3	15.6	168.05	187.5	-570.5	363.6	339.9	23.70	15.343	
6,600.0	6,523.7	6,591.4	6,559.7	20.7	15.9	168.05	190.6	-580.3	369.5	345.4	24.07	15.352	
6,700.0	6,622.4	6,691.8	6,659.5	21.0	16.1	168.35	191.8	-590.1	375.3	351.0	24.37	15.399	
6,800.0	6,721.1	6,790.1	6,756.3	21.3	16.3	170.83	178.3	-599.7	381.3	357.0	24.33	15.670	
6,900.0	6,819.9	6,880.4	6,841.9	21.7	16.4	175.16	151.5	-608.3	389.4	365.2	24.20	16.089	
7,000.0	6,918.4	6,962.9	6,915.7	22.0	16.5	-129.15	115.5	-615.8	401.5	377.1	24.38	16.466	
7,100.0	7,014.7	7,041.8	6,980.7	22.2	16.6	-101.22	71.4	-622.4	416.2	391.2	25.08	16.595	
7,200.0	7,105.8	7,118.0	7,037.2	22.5	16.8	-87.78	20.7	-628.2	432.1	406.1	26.04	16.594	
7,300.0	7,189.0	7,192.0	7,085.2	22.7	16.9	-79.53	-35.4	-633.3	447.9	421.0	26.90	16.652	
7,400.0	7,261.6	7,264.4	7,124.8	22.9	17.2	-73.90	-95.8	-637.5	462.4	434.9	27.51	16.811	
7,500.0	7,321.6	7,335.6	7,156.1	23.2	17.5	-69.94	-159.6	-640.9	474.9	447.1	27.79	17.092	
7,600.0	7,367.1	7,400.0	7,177.4	23.6	17.8	-67.31	-220.3	-643.3	484.8	457.0	27.75	17.467	
7,700.0	7,396.7	7,475.7	7,193.6	24.0	18.3	-65.61	-294.2	-645.3	491.3	463.6	27.71	17.733	
7,800.0	7,409.5	7,550.0	7,199.9	24.6	18.8	-64.91	-368.2	-646.3	494.5	466.8	27.70	17.855	
7,900.0	7,410.0	7,637.8	7,200.0	25.2	19.5	-64.90	-455.9	-646.8	495.1	466.0	29.13	16.997	
8,000.0	7,410.0	7,737.8	7,200.0	25.9	20.4	-64.93	-555.9	-647.3	495.6	464.3	31.23	15.870	
8,100.0	7,410.0	7,837.8	7,200.0	26.7	21.5	-64.95	-655.9	-647.8	496.0	462.5	33.50	14.808	
8,200.0	7,410.0	7,937.8	7,200.0	27.7	22.6	-64.98	-755.9	-648.3	496.5	460.6	35.91	13.827	
8,300.0	7,410.0	8,037.8	7,200.0	28.7	23.8	-65.00	-855.9	-648.9	497.0	458.5	38.43	12.931	
8,400.0	7,410.0	8,137.7	7,200.0	29.7	25.1	-65.03	-955.9	-649.4	497.5	456.4	41.05	12.117	
8,500.0	7,410.0	8,237.7	7,200.0	30.8	26.4	-65.05	-1,055.9	-649.9	497.9	454.2	43.75	11.382	
8,600.0	7,410.0	8,337.7	7,200.0	32.0	27.8	-65.08	-1,155.9	-650.4	498.4	451.9	46.51	10.716	
8,700.0	7,410.0	8,437.7	7,200.0	33.3	29.2	-65.11	-1,255.9	-651.0	498.9	449.6	49.32	10.115	
8,800.0	7,410.0	8,537.7	7,200.0	34.5	30.6	-65.13	-1,355.9	-651.5	499.4	447.2	52.18	9.570	
8,900.0	7,410.0	8,637.7	7,200.0	35.9	32.1	-65.16	-1,455.9	-652.0	499.8	444.8	55.08	9.075	
9,000.0	7,410.0	8,737.7	7,200.0	37.2	33.6	-65.18	-1,555.9	-652.5	500.3	442.3	58.01	8.625	
9,100.0	7,410.0	8,837.7	7,200.0	38.6	35.1	-65.21	-1,655.9	-653.1	500.8	439.8	60.96	8.214	
9,200.0	7,410.0	8,937.7	7,200.0	40.0	36.7	-65.23	-1,755.9	-653.6	501.3	437.3	63.95	7.839	
9,300.0	7,410.0	9,037.7	7,200.0	41.5	38.2	-65.26	-1,855.9	-654.1	501.7	434.8	66.95	7.494	
9,400.0	7,410.0	9,137.7	7,200.0	42.9	39.8	-65.28	-1,955.9	-654.6	502.2	432.2	69.97	7.177	
9,500.0	7,410.0	9,237.7	7,200.0	44.4	41.4	-65.31	-2,055.9	-655.2	502.7	429.7	73.01	6.885	
9,600.0	7,410.0	9,337.7	7,200.0	45.9	43.0	-65.33	-2,155.9	-655.7	503.2	427.1	76.06	6.615	
9,700.0	7,410.0	9,437.7	7,200.0	47.4	44.6	-65.36	-2,255.9	-656.2	503.6	424.5	79.13	6.365	
9,800.0	7,410.0	9,537.7	7,200.0	49.0	46.2	-65.38	-2,355.9	-656.7	504.1	421.9	82.21	6.132	
9,900.0	7,410.0	9,637.7	7,200.0	50.5	47.9	-65.41	-2,455.9	-657.2	504.6	419.3	85.29	5.916	
10,000.0	7,410.0	9,737.7	7,200.0	52.1	49.5	-65.43	-2,555.9	-657.8	505.1	416.7	88.39	5.714	
10,100.0	7,410.0	9,837.7	7,200.0	53.7	51.2	-65.46	-2,655.9	-658.3	505.5	414.0	91.50	5.525	
10,200.0	7,410.0	9,937.7	7,200.0	55.3	52.8	-65.48	-2,755.9	-658.8	506.0	411.4	94.62	5.348	
10,300.0	7,410.0	10,037.7	7,200.0	56.9	54.5	-65.50	-2,855.9	-659.3	506.5	408.8	97.74	5.182	

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

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Grant Elmquist 2B-14H-C268
Project:	DJ Wattenberg	**TVD Reference:**	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	**MD Reference:**	KB @ 4894.0ft
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Grant Elmquist 2B-14H-C268	**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 S14-T2N-R68W (Grant Elmquist/Salisbury) - Grant Elmquist 2C-14H-C268 - Hz - Plan #2

Survey Program: 0-MWD

Offset Site Error: 0.0 ft

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
10,400.0	7,410.0	10,137.7	7,200.0	58.5	56.2	-65.53	-2,955.9	-659.9	507.0	406.1	100.87	5.026	
10,500.0	7,410.0	10,237.7	7,200.0	60.1	57.8	-65.55	-3,055.9	-660.4	507.4	403.4	104.00	4.879	
10,600.0	7,410.0	10,337.7	7,200.0	61.7	59.5	-65.58	-3,155.8	-660.9	507.9	400.8	107.15	4.740	
10,700.0	7,410.0	10,437.7	7,200.0	63.3	61.2	-65.60	-3,255.8	-661.4	508.4	398.1	110.29	4.610	
10,800.0	7,410.0	10,537.7	7,200.0	65.0	62.9	-65.63	-3,355.8	-662.0	508.9	395.4	113.44	4.486	
10,900.0	7,410.0	10,637.7	7,200.0	66.6	64.6	-65.65	-3,455.8	-662.5	509.4	392.8	116.60	4.368	
11,000.0	7,410.0	10,737.7	7,200.0	68.3	66.3	-65.68	-3,555.8	-663.0	509.8	390.1	119.76	4.257	
11,100.0	7,410.0	10,837.7	7,200.0	69.9	68.0	-65.70	-3,655.8	-663.5	510.3	387.4	122.93	4.151	
11,200.0	7,410.0	10,937.7	7,200.0	71.6	69.7	-65.72	-3,755.8	-664.1	510.8	384.7	126.10	4.051	
11,300.0	7,410.0	11,037.7	7,200.0	73.2	71.4	-65.75	-3,855.8	-664.6	511.3	382.0	129.27	3.955	
11,400.0	7,410.0	11,137.7	7,200.0	74.9	73.1	-65.77	-3,955.8	-665.1	511.7	379.3	132.45	3.864	
11,500.0	7,410.0	11,237.7	7,200.0	76.6	74.8	-65.80	-4,055.8	-665.6	512.2	376.6	135.63	3.777	
11,600.0	7,410.0	11,337.7	7,200.0	78.2	76.5	-65.82	-4,155.8	-666.1	512.7	373.9	138.81	3.693	
11,700.0	7,410.0	11,437.7	7,200.0	79.9	78.2	-65.84	-4,255.8	-666.7	513.2	371.2	142.00	3.614	
11,800.0	7,410.0	11,537.7	7,200.0	81.6	79.9	-65.87	-4,355.8	-667.2	513.6	368.5	145.19	3.538	
11,900.0	7,410.0	11,637.7	7,200.0	83.3	81.6	-65.89	-4,455.8	-667.7	514.1	365.7	148.38	3.465	
12,000.0	7,410.0	11,737.7	7,200.0	85.0	83.4	-65.92	-4,555.8	-668.2	514.6	363.0	151.58	3.395	
12,100.0	7,410.0	11,837.7	7,200.0	86.7	85.1	-65.94	-4,655.8	-668.8	515.1	360.3	154.78	3.328	
12,200.0	7,410.0	11,937.7	7,200.0	88.4	86.8	-65.96	-4,755.8	-669.3	515.6	357.6	157.98	3.264	
12,300.0	7,410.0	12,037.7	7,200.0	90.0	88.5	-65.96	-4,855.8	-669.8	515.5	354.8	160.75	3.207	
12,400.0	7,410.0	12,137.7	7,200.0	91.7	90.2	-65.87	-4,955.8	-670.3	513.9	350.6	163.28	3.148	
12,500.0	7,410.0	12,237.6	7,200.0	93.4	92.0	-65.71	-5,055.7	-670.9	510.8	345.0	165.80	3.081	
12,600.0	7,410.0	12,337.5	7,200.0	95.1	93.7	-65.52	-5,155.6	-671.4	507.2	338.4	168.73	3.006	
12,700.0	7,410.0	12,437.5	7,200.0	96.8	95.4	-65.34	-5,255.6	-671.9	503.6	331.9	171.66	2.934	
12,800.0	7,410.0	12,537.4	7,200.0	98.5	97.1	-65.15	-5,355.5	-672.4	500.0	325.4	174.56	2.864	
12,900.0	7,410.0	12,637.3	7,200.0	100.2	98.9	-64.95	-5,455.4	-673.0	496.4	318.9	177.46	2.797	
13,000.0	7,410.0	12,737.2	7,200.0	101.9	100.6	-64.76	-5,555.3	-673.5	492.8	312.4	180.34	2.732	
13,100.0	7,410.0	12,837.1	7,200.0	103.6	102.3	-64.56	-5,655.2	-674.0	489.2	306.0	183.20	2.670	
13,200.0	7,410.0	12,937.1	7,200.0	105.3	104.1	-64.36	-5,755.2	-674.5	485.6	299.6	186.05	2.610	
13,300.0	7,410.0	13,037.0	7,200.0	107.0	105.8	-64.16	-5,855.1	-675.0	482.0	293.2	188.89	2.552	
13,400.0	7,410.0	13,136.9	7,200.0	108.7	107.5	-63.95	-5,955.0	-675.6	478.5	286.8	191.70	2.496	
13,500.0	7,410.0	13,236.8	7,200.0	110.4	109.2	-63.74	-6,054.9	-676.1	474.9	280.4	194.50	2.442	
13,600.0	7,410.0	13,336.8	7,200.0	112.1	111.0	-63.53	-6,154.8	-676.6	471.4	274.1	197.28	2.389	
13,700.0	7,410.0	13,436.7	7,200.0	113.8	112.7	-63.31	-6,254.8	-677.1	467.8	267.8	200.04	2.339	
13,800.0	7,410.0	13,536.6	7,200.0	115.5	114.4	-63.09	-6,354.7	-677.7	464.3	261.5	202.78	2.290	
13,900.0	7,410.0	13,636.5	7,200.0	117.2	116.2	-62.87	-6,454.6	-678.2	460.7	255.2	205.50	2.242	
14,000.0	7,410.0	13,736.4	7,200.0	118.9	117.9	-62.64	-6,554.5	-678.7	457.2	249.0	208.20	2.196	
14,100.0	7,410.0	13,836.4	7,200.0	120.6	119.6	-62.41	-6,654.4	-679.2	453.7	242.8	210.88	2.151	
14,157.7	7,410.0	13,891.9	7,200.0	121.6	120.6	-62.28	-6,710.0	-679.5	451.7	239.3	212.40	2.127	SF

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Grant Elmquist 2B-14H-C268
Project:	DJ Wattenberg	**TVD Reference:**	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	**MD Reference:**	KB @ 4894.0ft
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Grant Elmquist 2B-14H-C268	**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 S14-T2N-R68W (Grant Elmquist/Salisbury) - Grant Elmquist 2D-14H-C268 - Hz - Plan #2

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	90.00	0.0	19.6	19.6				
100.0	100.0	100.0	100.0	0.2	0.2	90.00	0.0	19.6	19.6	19.3	0.30	64.439	
200.0	200.0	200.0	200.0	0.3	0.3	90.00	0.0	19.6	19.6	18.9	0.65	29.980	
300.0	300.0	300.0	300.0	0.5	0.5	90.00	0.0	19.6	19.6	18.6	1.00	19.534	CC, ES
400.0	400.0	400.0	400.0	0.7	0.7	169.89	0.0	19.6	21.3	19.9	1.35	15.762	
500.0	499.8	499.8	499.8	0.9	0.8	171.87	0.0	19.6	26.5	24.8	1.70	15.581	
600.0	599.5	600.5	600.5	1.1	1.0	172.65	0.9	18.0	33.5	31.5	2.05	16.384	
700.0	698.7	701.2	701.0	1.3	1.2	171.70	3.4	13.4	40.9	38.5	2.40	17.087	
800.0	797.5	800.7	800.4	1.6	1.4	171.01	6.5	7.9	50.4	47.7	2.75	18.361	
900.0	896.2	900.2	899.7	1.9	1.6	170.64	9.5	2.4	60.5	57.4	3.11	19.495	
1,000.0	995.0	999.7	999.0	2.3	1.8	170.38	12.6	-3.2	70.6	67.2	3.46	20.387	
1,100.0	1,093.7	1,099.2	1,098.2	2.6	2.0	170.19	15.6	-8.7	80.7	76.9	3.82	21.107	
1,200.0	1,192.4	1,198.7	1,197.5	2.9	2.2	170.03	18.7	-14.2	90.8	86.6	4.19	21.699	
1,300.0	1,291.2	1,298.2	1,296.8	3.2	2.4	169.91	21.8	-19.7	100.9	96.4	4.55	22.195	
1,400.0	1,389.9	1,397.7	1,396.1	3.5	2.6	169.81	24.8	-25.3	111.0	106.1	4.91	22.616	
1,500.0	1,488.6	1,497.2	1,495.4	3.9	2.8	169.73	27.9	-30.8	121.1	115.8	5.27	22.977	
1,600.0	1,587.3	1,596.6	1,594.7	4.2	3.0	169.66	30.9	-36.3	131.2	125.6	5.63	23.291	
1,700.0	1,686.1	1,696.1	1,694.0	4.5	3.2	169.60	34.0	-41.9	141.3	135.3	6.00	23.566	
1,800.0	1,784.8	1,795.6	1,793.3	4.8	3.4	169.54	37.1	-47.4	151.4	145.0	6.36	23.808	
1,900.0	1,883.5	1,895.1	1,892.5	5.2	3.6	169.50	40.1	-52.9	161.5	154.8	6.72	24.024	
2,000.0	1,982.2	1,994.6	1,991.8	5.5	3.8	169.46	43.2	-58.5	171.6	164.5	7.09	24.218	
2,100.0	2,081.0	2,094.1	2,091.1	5.8	4.0	169.42	46.2	-64.0	181.7	174.2	7.45	24.392	
2,200.0	2,179.7	2,193.6	2,190.4	6.2	4.2	169.39	49.3	-69.5	191.8	184.0	7.81	24.549	
2,300.0	2,278.4	2,293.1	2,289.7	6.5	4.4	169.36	52.4	-75.1	201.9	193.7	8.18	24.693	
2,400.0	2,377.1	2,392.6	2,389.0	6.8	4.6	169.34	55.4	-80.6	212.0	203.4	8.54	24.824	
2,500.0	2,475.9	2,492.1	2,488.3	7.1	4.8	169.31	58.5	-86.1	222.1	213.2	8.90	24.944	
2,600.0	2,574.6	2,591.5	2,587.6	7.5	5.0	169.29	61.5	-91.7	232.2	222.9	9.27	25.054	
2,700.0	2,673.3	2,691.0	2,686.8	7.8	5.2	169.27	64.6	-97.2	242.3	232.6	9.63	25.156	
2,800.0	2,772.1	2,790.5	2,786.1	8.1	5.5	169.25	67.7	-102.7	252.4	242.4	9.99	25.250	
2,900.0	2,870.8	2,890.0	2,885.4	8.5	5.7	169.23	70.7	-108.3	262.5	252.1	10.36	25.338	
3,000.0	2,969.5	2,989.5	2,984.7	8.8	5.9	169.22	73.8	-113.8	272.6	261.8	10.72	25.420	
3,100.0	3,068.2	3,089.0	3,084.0	9.1	6.1	169.20	76.8	-119.3	282.6	271.6	11.09	25.496	
3,200.0	3,167.0	3,188.5	3,183.3	9.4	6.3	169.19	79.9	-124.8	292.7	281.3	11.45	25.567	
3,300.0	3,265.7	3,288.0	3,282.6	9.8	6.5	169.18	83.0	-130.4	302.8	291.0	11.81	25.634	
3,400.0	3,364.4	3,387.5	3,381.9	10.1	6.7	169.17	86.0	-135.9	312.9	300.8	12.18	25.697	
3,500.0	3,463.1	3,486.9	3,481.1	10.4	6.9	169.16	89.1	-141.4	323.0	310.5	12.54	25.756	
3,600.0	3,561.9	3,586.4	3,580.4	10.8	7.1	169.15	92.1	-147.0	333.1	320.2	12.91	25.811	
3,700.0	3,660.6	3,685.9	3,679.7	11.1	7.3	169.14	95.2	-152.5	343.2	330.0	13.27	25.864	
3,800.0	3,759.3	3,785.4	3,779.0	11.4	7.5	169.13	98.3	-158.0	353.3	339.7	13.63	25.914	
3,900.0	3,858.1	3,884.9	3,878.3	11.8	7.7	169.12	101.3	-163.6	363.4	349.4	14.00	25.961	
4,000.0	3,956.8	3,984.4	3,977.6	12.1	7.9	169.11	104.4	-169.1	373.5	359.2	14.36	26.005	
4,100.0	4,055.5	4,083.9	4,076.9	12.4	8.1	169.10	107.5	-174.6	383.6	368.9	14.73	26.048	
4,200.0	4,154.2	4,183.4	4,176.2	12.7	8.3	169.09	110.5	-180.2	393.7	378.6	15.09	26.088	
4,300.0	4,253.0	4,282.9	4,275.5	13.1	8.5	169.09	113.6	-185.7	403.8	388.4	15.46	26.127	
4,400.0	4,351.7	4,382.3	4,374.7	13.4	8.7	169.08	116.6	-191.2	413.9	398.1	15.82	26.163	
4,500.0	4,450.4	4,481.8	4,474.0	13.7	8.9	169.07	119.7	-196.8	424.0	407.8	16.18	26.198	
4,600.0	4,549.1	4,581.3	4,573.3	14.1	9.1	169.07	122.8	-202.3	434.1	417.6	16.55	26.232	
4,700.0	4,647.9	4,680.8	4,672.6	14.4	9.4	169.06	125.8	-207.8	444.2	427.3	16.91	26.264	
4,800.0	4,746.6	4,780.3	4,771.9	14.7	9.6	169.06	128.9	-213.4	454.3	437.0	17.28	26.294	
4,900.0	4,845.3	4,879.8	4,871.2	15.1	9.8	169.05	131.9	-218.9	464.4	446.8	17.64	26.324	
5,000.0	4,944.1	4,979.3	4,970.5	15.4	10.0	169.05	135.0	-224.4	474.5	456.5	18.01	26.352	
5,100.0	5,042.8	5,078.8	5,069.8	15.7	10.2	169.04	138.1	-229.9	484.6	466.2	18.37	26.379	

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

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Grant Elmquist 2B-14H-C268
Project:	DJ Wattenberg	**TVD Reference:**	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	**MD Reference:**	KB @ 4894.0ft
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Grant Elmquist 2B-14H-C268	**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 S14-T2N-R68W (Grant Elmquist/Salisbury) - Grant Elmquist 2D-14H-C268 - Hz - Plan #2

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
5,200.0	5,141.5	5,178.3	5,169.0	16.1	10.4	169.04	141.1	-235.5	494.7	475.9	18.73	26.405	
5,300.0	5,240.2	5,277.7	5,268.3	16.4	10.6	169.03	144.2	-241.0	504.8	485.7	19.10	26.430	
5,400.0	5,339.0	5,377.2	5,367.6	16.7	10.8	169.03	147.2	-246.5	514.9	495.4	19.46	26.454	
5,500.0	5,437.7	5,476.7	5,466.9	17.0	11.0	169.02	150.3	-252.1	525.0	505.1	19.83	26.477	
5,600.0	5,536.4	5,576.2	5,566.2	17.4	11.2	169.02	153.4	-257.6	535.1	514.9	20.19	26.499	
5,700.0	5,635.1	5,675.7	5,665.5	17.7	11.4	169.02	156.4	-263.1	545.2	524.6	20.56	26.521	
5,800.0	5,733.9	5,775.2	5,764.8	18.0	11.6	169.01	159.5	-268.7	555.3	534.3	20.92	26.542	
5,900.0	5,832.6	5,874.7	5,864.1	18.4	11.8	169.01	162.5	-274.2	565.4	544.1	21.29	26.562	
6,000.0	5,931.3	5,974.2	5,963.3	18.7	12.0	169.01	165.6	-279.7	575.5	553.8	21.65	26.581	
6,100.0	6,030.0	6,073.7	6,062.6	19.0	12.2	169.00	168.7	-285.3	585.6	563.5	22.01	26.600	
6,200.0	6,128.8	6,173.1	6,161.9	19.4	12.4	169.00	171.7	-290.8	595.7	573.3	22.38	26.618	
6,300.0	6,227.5	6,272.6	6,261.2	19.7	12.6	169.00	174.8	-296.3	605.8	583.0	22.74	26.635	
6,400.0	6,326.2	6,372.1	6,360.5	20.0	12.8	168.99	177.8	-301.9	615.8	592.7	23.11	26.652	
6,500.0	6,425.0	6,471.6	6,459.8	20.3	13.1	168.99	180.9	-307.4	625.9	602.5	23.47	26.669	
6,600.0	6,523.7	6,571.1	6,559.1	20.7	13.3	168.99	184.0	-312.9	636.0	612.2	23.84	26.684	
6,700.0	6,622.4	6,670.6	6,658.4	21.0	13.5	168.98	187.0	-318.5	646.1	621.9	24.20	26.700	
6,800.0	6,721.1	6,770.1	6,757.6	21.3	13.7	168.98	190.1	-324.0	656.2	631.7	24.56	26.715	
6,900.0	6,819.9	6,870.2	6,857.6	21.7	13.9	169.08	192.0	-329.6	666.3	641.4	24.91	26.754	
7,000.0	6,918.4	6,970.6	6,956.9	22.0	14.0	-139.42	179.9	-335.4	676.3	651.3	24.98	27.075	
7,100.0	7,014.7	7,069.7	7,051.4	22.2	14.1	-115.20	151.1	-341.2	686.0	660.9	25.01	27.427	
7,200.0	7,105.8	7,167.6	7,138.6	22.5	14.2	-104.89	107.1	-346.9	695.1	669.9	25.12	27.665	
7,300.0	7,189.0	7,264.4	7,216.2	22.7	14.3	-99.21	49.6	-352.2	703.3	677.9	25.41	27.680	
7,400.0	7,261.6	7,360.4	7,282.4	22.9	14.4	-95.59	-19.5	-357.2	710.4	684.5	25.92	27.413	
7,500.0	7,321.6	7,455.6	7,335.9	23.2	14.8	-93.15	-98.0	-361.5	716.2	689.5	26.68	26.846	
7,600.0	7,367.1	7,550.0	7,375.3	23.6	15.2	-91.50	-183.6	-365.3	720.4	692.7	27.69	26.019	
7,700.0	7,396.7	7,644.1	7,400.2	24.0	15.8	-90.49	-274.2	-368.2	723.0	694.0	28.93	24.990	
7,800.0	7,409.5	7,737.6	7,409.9	24.6	16.6	-90.03	-367.1	-370.4	723.7	693.3	30.36	23.836	
7,900.0	7,410.0	7,836.7	7,410.0	25.2	17.5	-90.00	-466.2	-372.1	723.1	690.8	32.30	22.389	
7,945.5	7,410.0	7,877.2	7,410.0	25.5	17.9	-90.00	-506.6	-372.7	722.9	689.6	33.26	21.737	
8,000.0	7,410.0	7,923.0	7,410.0	25.9	18.4	-90.00	-552.5	-373.0	723.2	688.8	34.40	21.022	
8,100.0	7,410.0	8,000.0	7,410.0	26.7	19.3	-90.00	-629.4	-372.1	725.5	689.0	36.55	19.851	
8,200.0	7,410.0	8,091.0	7,410.0	27.7	20.3	-90.00	-720.4	-369.0	730.0	691.0	39.02	18.708	
8,300.0	7,410.0	8,174.7	7,410.0	28.7	21.4	-90.00	-803.9	-364.3	736.7	695.2	41.52	17.745	
8,400.0	7,410.0	8,259.6	7,410.0	29.7	22.4	-90.00	-888.6	-357.6	745.5	701.4	44.11	16.901	
8,500.0	7,410.0	8,359.1	7,410.0	30.8	23.8	-90.00	-987.7	-349.0	755.3	708.3	47.01	16.066	
8,600.0	7,410.0	8,458.6	7,410.0	32.0	25.2	-90.00	-1,086.9	-340.3	765.1	715.1	49.98	15.306	
8,700.0	7,410.0	8,558.1	7,410.0	33.3	26.6	-90.00	-1,186.0	-331.6	774.8	721.8	53.02	14.614	
8,800.0	7,410.0	8,657.7	7,410.0	34.5	28.0	-90.00	-1,285.1	-322.9	784.6	728.5	56.11	13.983	
8,900.0	7,410.0	8,757.2	7,410.0	35.9	29.5	-90.00	-1,384.3	-314.3	794.3	735.1	59.25	13.408	
9,000.0	7,410.0	8,856.7	7,410.0	37.2	31.0	-90.00	-1,483.4	-305.6	804.1	741.7	62.42	12.882	
9,100.0	7,410.0	8,956.2	7,410.0	38.6	32.6	-90.00	-1,582.6	-296.9	813.9	748.2	65.63	12.401	
9,200.0	7,410.0	9,055.8	7,410.0	40.0	34.2	-90.00	-1,681.7	-288.2	823.6	754.8	68.86	11.960	
9,300.0	7,410.0	9,155.3	7,410.0	41.5	35.7	-90.00	-1,780.9	-279.6	833.4	761.3	72.12	11.555	
9,400.0	7,410.0	9,254.8	7,410.0	42.9	37.3	-90.00	-1,880.0	-270.9	843.1	767.7	75.40	11.182	
9,500.0	7,410.0	9,354.3	7,410.0	44.4	38.9	-90.00	-1,979.2	-262.2	852.9	774.2	78.70	10.837	
9,600.0	7,410.0	9,453.8	7,410.0	45.9	40.6	-90.00	-2,078.3	-253.5	862.7	780.6	82.02	10.518	
9,700.0	7,410.0	9,553.4	7,410.0	47.4	42.2	-90.00	-2,177.4	-244.9	872.4	787.1	85.35	10.222	
9,800.0	7,410.0	9,652.9	7,410.0	49.0	43.8	-90.00	-2,276.6	-236.2	882.2	793.5	88.69	9.946	
9,900.0	7,410.0	9,752.4	7,410.0	50.5	45.5	-90.00	-2,375.7	-227.5	891.9	799.9	92.05	9.690	
10,000.0	7,410.0	9,851.9	7,410.0	52.1	47.1	-90.00	-2,474.9	-218.8	901.7	806.3	95.41	9.450	
10,100.0	7,410.0	9,951.5	7,410.0	53.7	48.8	-90.00	-2,574.0	-210.2	911.4	812.7	98.79	9.226	
10,200.0	7,410.0	10,051.0	7,410.0	55.3	50.5	-90.00	-2,673.2	-201.5	921.2	819.0	102.17	9.016	

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

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Grant Elmquist 2B-14H-C268
Project:	DJ Wattenberg	**TVD Reference:**	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	**MD Reference:**	KB @ 4894.0ft
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Grant Elmquist 2B-14H-C268	**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 S14-T2N-R68W (Grant Elmquist/Salisbury) - Grant Elmquist 2D-14H-C268 - Hz - Plan #2

Survey Program: 0-MWD

Offset Site Error: 0.0 ft

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
10,300.0	7,410.0	10,150.5	7,410.0	56.9	52.1	-90.00	-2,772.3	-192.8	931.0	825.4	105.56	8.819	
10,400.0	7,410.0	10,250.0	7,410.0	58.5	53.8	-90.00	-2,871.4	-184.2	940.7	831.8	108.96	8.634	
10,500.0	7,410.0	10,382.3	7,410.0	60.1	56.1	-90.00	-3,003.4	-174.9	948.8	835.8	112.92	8.402	
10,600.0	7,410.0	10,515.3	7,410.0	61.7	58.3	-90.00	-3,136.3	-170.2	953.3	836.4	116.91	8.155	
10,700.0	7,410.0	10,648.6	7,410.0	63.3	60.6	-90.00	-3,269.6	-170.1	954.4	833.5	120.90	7.895	
10,800.0	7,410.0	10,752.4	7,410.0	65.0	62.4	-90.00	-3,373.4	-172.3	953.4	829.0	124.39	7.665	
10,900.0	7,410.0	10,852.4	7,410.0	66.6	64.1	-90.00	-3,473.4	-174.4	952.4	824.5	127.83	7.450	
11,000.0	7,410.0	10,952.4	7,410.0	68.3	65.8	-90.00	-3,573.3	-176.5	951.3	820.1	131.27	7.247	
11,100.0	7,410.0	11,052.4	7,410.0	69.9	67.5	-90.00	-3,673.3	-178.5	950.3	815.6	134.71	7.054	
11,200.0	7,410.0	11,152.4	7,410.0	71.6	69.3	-90.00	-3,773.3	-180.6	949.2	811.1	138.15	6.871	
11,300.0	7,410.0	11,264.7	7,410.0	73.2	71.2	-90.00	-3,885.5	-183.8	947.4	805.6	141.81	6.681	
11,400.0	7,410.0	11,364.6	7,410.0	74.9	72.9	-90.00	-3,985.4	-187.2	945.1	799.8	145.26	6.506	
11,500.0	7,410.0	11,464.6	7,410.0	76.6	74.7	-90.00	-4,085.3	-190.6	942.8	794.0	148.72	6.339	
11,600.0	7,410.0	11,564.6	7,410.0	78.2	76.4	-90.00	-4,185.3	-194.0	940.4	788.2	152.18	6.180	
11,700.0	7,410.0	11,664.6	7,410.0	79.9	78.1	-90.00	-4,285.2	-197.4	938.1	782.4	155.63	6.027	
11,800.0	7,410.0	11,764.5	7,410.0	81.6	79.8	-90.00	-4,385.1	-200.8	935.7	776.6	159.10	5.881	
11,900.0	7,410.0	11,864.5	7,410.0	83.3	81.6	-90.00	-4,485.0	-204.2	933.4	770.8	162.56	5.742	
12,000.0	7,410.0	11,964.5	7,410.0	85.0	83.3	-90.00	-4,584.9	-207.5	931.0	765.0	166.02	5.608	
12,100.0	7,410.0	12,064.5	7,410.0	86.7	85.0	-90.00	-4,684.8	-210.9	928.7	759.2	169.49	5.479	
12,200.0	7,410.0	12,164.4	7,410.0	88.4	86.8	-90.00	-4,784.7	-214.3	926.3	753.4	172.96	5.356	
12,300.0	7,410.0	12,264.4	7,410.0	90.0	88.5	-90.00	-4,884.6	-217.7	923.4	747.3	176.11	5.244	
12,400.0	7,410.0	12,364.3	7,410.0	91.7	90.2	-90.00	-4,984.5	-221.1	918.8	739.7	179.13	5.129	
12,500.0	7,410.0	12,464.1	7,410.0	93.4	92.0	-90.00	-5,084.2	-224.5	912.5	730.3	182.21	5.008	
12,600.0	7,410.0	12,563.8	7,410.0	95.1	93.7	-90.00	-5,183.9	-227.9	905.7	720.0	185.68	4.878	
12,700.0	7,410.0	12,663.6	7,410.0	96.8	95.5	-90.00	-5,283.6	-231.2	898.8	709.7	189.15	4.752	
12,800.0	7,410.0	12,763.4	7,410.0	98.5	97.2	-90.00	-5,383.4	-234.6	892.0	699.4	192.62	4.631	
12,900.0	7,410.0	12,863.1	7,410.0	100.2	98.9	-90.00	-5,483.1	-238.0	885.2	689.1	196.09	4.514	
13,000.0	7,410.0	12,962.9	7,410.0	101.9	100.7	-90.00	-5,582.8	-241.4	878.4	678.8	199.56	4.401	
13,100.0	7,410.0	13,062.7	7,410.0	103.6	102.4	-90.00	-5,682.5	-244.8	871.5	668.5	203.03	4.293	
13,200.0	7,410.0	13,162.4	7,410.0	105.3	104.1	-90.00	-5,782.2	-248.2	864.7	658.2	206.51	4.187	
13,300.0	7,410.0	13,262.2	7,410.0	107.0	105.9	-90.00	-5,881.9	-251.5	857.9	647.9	209.98	4.085	
13,400.0	7,410.0	13,362.0	7,410.0	108.7	107.6	-90.00	-5,981.6	-254.9	851.0	637.6	213.46	3.987	
13,500.0	7,410.0	13,461.7	7,410.0	110.4	109.3	-90.00	-6,081.3	-258.3	844.2	627.3	216.93	3.892	
13,600.0	7,410.0	13,561.5	7,410.0	112.1	111.1	-90.00	-6,181.0	-261.7	837.4	617.0	220.41	3.799	
13,700.0	7,410.0	13,661.3	7,410.0	113.8	112.8	-90.00	-6,280.7	-265.1	830.6	606.7	223.89	3.710	
13,800.0	7,410.0	13,761.0	7,410.0	115.5	114.6	-90.00	-6,380.4	-268.5	823.7	596.4	227.37	3.623	
13,900.0	7,410.0	13,860.8	7,410.0	117.2	116.3	-90.00	-6,480.2	-271.8	816.9	586.1	230.85	3.539	
14,000.0	7,410.0	13,960.6	7,410.0	118.9	118.0	-90.00	-6,579.9	-275.2	810.1	575.7	234.33	3.457	
14,100.0	7,410.0	14,060.3	7,410.0	120.6	119.8	-90.00	-6,679.6	-278.6	803.2	565.4	237.81	3.378	
14,157.7	7,410.0	14,090.8	7,410.0	121.6	120.3	-90.00	-6,710.0	-279.6	799.8	560.4	239.35	3.341	SF

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Grant Elmquist 2B-14H-C268
Project:	DJ Wattenberg	**TVD Reference:**	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	**MD Reference:**	KB @ 4894.0ft
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Grant Elmquist 2B-14H-C268	**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 S14-T2N-R68W (Grant Elmquist/Salisbury) - Grant Elmquist 2E-14H-C268 - Hz - Plan #2

Survey Program: 0-MWD

Offset Site Error: 0.0 ft

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	90.00	0.0	30.8	30.8				
100.0	100.0	100.0	100.0	0.2	0.2	90.00	0.0	30.8	30.8	30.4	0.30	101.262	
200.0	200.0	200.0	200.0	0.3	0.3	90.00	0.0	30.8	30.8	30.1	0.65	47.111	
300.0	300.0	300.0	300.0	0.5	0.5	90.00	0.0	30.8	30.8	29.8	1.00	30.696	CC, ES
400.0	400.0	400.0	400.0	0.7	0.7	169.58	0.0	30.8	32.5	31.1	1.35	24.041	
500.0	499.8	499.8	499.8	0.9	0.8	171.01	0.0	30.8	37.6	35.9	1.70	22.160	
600.0	599.5	599.5	599.5	1.1	1.0	172.67	0.0	30.8	46.3	44.2	2.04	22.637	
700.0	698.7	697.8	697.8	1.3	1.2	172.68	1.4	31.6	59.1	56.7	2.39	24.764	
800.0	797.5	796.3	796.2	1.6	1.4	171.62	4.6	33.5	76.0	73.2	2.74	27.782	
900.0	896.2	894.7	894.6	1.9	1.6	171.01	7.8	35.3	93.5	90.4	3.09	30.245	
1,000.0	995.0	993.2	993.0	2.3	1.7	170.59	11.0	37.2	110.9	107.5	3.45	32.188	
1,100.0	1,093.7	1,091.7	1,091.4	2.6	1.9	170.28	14.1	39.1	128.4	124.6	3.80	33.758	
1,200.0	1,192.4	1,190.1	1,189.7	2.9	2.1	170.05	17.3	41.0	145.9	141.7	4.16	35.052	
1,300.0	1,291.2	1,288.6	1,288.1	3.2	2.3	169.87	20.5	42.8	163.4	158.9	4.52	36.136	
1,400.0	1,389.9	1,387.0	1,386.5	3.5	2.5	169.72	23.7	44.7	180.9	176.0	4.88	37.056	
1,500.0	1,488.6	1,485.5	1,484.9	3.9	2.6	169.60	26.9	46.6	198.4	193.1	5.24	37.848	
1,600.0	1,587.3	1,583.9	1,583.3	4.2	2.8	169.50	30.0	48.5	215.8	210.2	5.60	38.535	
1,700.0	1,686.1	1,682.4	1,681.7	4.5	3.0	169.41	33.2	50.3	233.3	227.4	5.96	39.138	
1,800.0	1,784.8	1,780.9	1,780.1	4.8	3.2	169.34	36.4	52.2	250.8	244.5	6.32	39.671	
1,900.0	1,883.5	1,879.3	1,878.5	5.2	3.4	169.27	39.6	54.1	268.3	261.6	6.68	40.145	
2,000.0	1,982.2	1,977.8	1,976.9	5.5	3.5	169.22	42.8	56.0	285.8	278.7	7.04	40.569	
2,100.0	2,081.0	2,076.2	2,075.2	5.8	3.7	169.16	45.9	57.8	303.3	295.9	7.41	40.952	
2,200.0	2,179.7	2,174.7	2,173.6	6.2	3.9	169.12	49.1	59.7	320.8	313.0	7.77	41.298	
2,300.0	2,278.4	2,273.2	2,272.0	6.5	4.1	169.08	52.3	61.6	338.3	330.1	8.13	41.613	
2,400.0	2,377.1	2,371.6	2,370.4	6.8	4.3	169.04	55.5	63.5	355.8	347.3	8.49	41.900	
2,500.0	2,475.9	2,470.1	2,468.8	7.1	4.5	169.01	58.7	65.3	373.2	364.4	8.85	42.164	
2,600.0	2,574.6	2,568.5	2,567.2	7.5	4.6	168.98	61.8	67.2	390.7	381.5	9.21	42.407	
2,700.0	2,673.3	2,667.0	2,665.6	7.8	4.8	168.95	65.0	69.1	408.2	398.6	9.58	42.631	
2,800.0	2,772.1	2,765.4	2,764.0	8.1	5.0	168.93	68.2	71.0	425.7	415.8	9.94	42.839	
2,900.0	2,870.8	2,863.9	2,862.4	8.5	5.2	168.91	71.4	72.8	443.2	432.9	10.30	43.032	
3,000.0	2,969.5	2,962.4	2,960.7	8.8	5.4	168.88	74.6	74.7	460.7	450.0	10.66	43.211	
3,100.0	3,068.2	3,060.8	3,059.1	9.1	5.6	168.86	77.7	76.6	478.2	467.2	11.02	43.379	
3,200.0	3,167.0	3,159.3	3,157.5	9.4	5.7	168.85	80.9	78.5	495.7	484.3	11.39	43.536	
3,300.0	3,265.7	3,257.7	3,255.9	9.8	5.9	168.83	84.1	80.3	513.2	501.4	11.75	43.683	
3,400.0	3,364.4	3,356.2	3,354.3	10.1	6.1	168.81	87.3	82.2	530.7	518.6	12.11	43.821	
3,500.0	3,463.1	3,454.7	3,452.7	10.4	6.3	168.80	90.5	84.1	548.2	535.7	12.47	43.951	
3,600.0	3,561.9	3,553.1	3,551.1	10.8	6.5	168.78	93.6	86.0	565.6	552.8	12.83	44.073	
3,700.0	3,660.6	3,651.6	3,649.5	11.1	6.7	168.77	96.8	87.8	583.1	569.9	13.20	44.189	
3,800.0	3,759.3	3,750.0	3,747.9	11.4	6.8	168.76	100.0	89.7	600.6	587.1	13.56	44.299	
3,900.0	3,858.1	3,848.5	3,846.3	11.8	7.0	168.75	103.2	91.6	618.1	604.2	13.92	44.402	
4,000.0	3,956.8	3,946.9	3,944.6	12.1	7.2	168.74	106.4	93.5	635.6	621.3	14.28	44.501	
4,100.0	4,055.5	4,045.4	4,043.0	12.4	7.4	168.73	109.5	95.3	653.1	638.5	14.65	44.594	
4,200.0	4,154.2	4,143.9	4,141.4	12.7	7.6	168.72	112.7	97.2	670.6	655.6	15.01	44.683	
4,300.0	4,253.0	4,242.3	4,239.8	13.1	7.8	168.71	115.9	99.1	688.1	672.7	15.37	44.768	
4,400.0	4,351.7	4,340.8	4,338.2	13.4	7.9	168.70	119.1	100.9	705.6	689.8	15.73	44.849	
4,500.0	4,450.4	4,439.2	4,436.6	13.7	8.1	168.69	122.3	102.8	723.1	707.0	16.09	44.926	
4,600.0	4,549.1	4,537.7	4,535.0	14.1	8.3	168.68	125.4	104.7	740.6	724.1	16.46	45.000	
4,700.0	4,647.9	4,636.2	4,633.4	14.4	8.5	168.67	128.6	106.6	758.0	741.2	16.82	45.070	
4,800.0	4,746.6	4,734.6	4,731.8	14.7	8.7	168.67	131.8	108.4	775.5	758.4	17.18	45.138	
4,900.0	4,845.3	4,833.1	4,830.1	15.1	8.9	168.66	135.0	110.3	793.0	775.5	17.54	45.203	
5,000.0	4,944.1	4,931.5	4,928.5	15.4	9.0	168.65	138.2	112.2	810.5	792.6	17.91	45.265	
5,100.0	5,042.8	5,030.0	5,026.9	15.7	9.2	168.65	141.3	114.1	828.0	809.7	18.27	45.324	

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

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Grant Elmquist 2B-14H-C268
Project:	DJ Wattenberg	**TVD Reference:**	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	**MD Reference:**	KB @ 4894.0ft
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Grant Elmquist 2B-14H-C268	**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 S14-T2N-R68W (Grant Elmquist/Salisbury) - Grant Elmquist 2E-14H-C268 - Hz - Plan #2

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
5,200.0	5,141.5	5,128.4	5,125.3	16.1	9.4	168.64	144.5	115.9	845.5	826.9	18.63	45.381	
5,300.0	5,240.2	5,226.9	5,223.7	16.4	9.6	168.63	147.7	117.8	863.0	844.0	18.99	45.436	
5,400.0	5,339.0	5,325.4	5,322.1	16.7	9.8	168.63	150.9	119.7	880.5	861.1	19.36	45.489	
5,500.0	5,437.7	5,423.8	5,420.5	17.0	10.0	168.62	154.1	121.6	898.0	878.3	19.72	45.540	
5,600.0	5,536.4	5,522.3	5,518.9	17.4	10.1	168.62	157.2	123.4	915.5	895.4	20.08	45.589	
5,700.0	5,635.1	5,620.7	5,617.3	17.7	10.3	168.61	160.4	125.3	933.0	912.5	20.44	45.637	
5,800.0	5,733.9	5,719.2	5,715.6	18.0	10.5	168.61	163.6	127.2	950.4	929.6	20.81	45.683	
5,900.0	5,832.6	5,817.7	5,814.0	18.4	10.7	168.60	166.8	129.1	967.9	946.8	21.17	45.727	
6,000.0	5,931.3	5,916.1	5,912.4	18.7	10.9	168.60	170.0	130.9	985.4	963.9	21.53	45.769	
6,100.0	6,030.0	6,014.6	6,010.8	19.0	11.1	168.59	173.1	132.8	1,002.9	981.0	21.89	45.811	
6,200.0	6,128.8	6,113.0	6,109.2	19.4	11.2	168.59	176.3	134.7	1,020.4	998.2	22.26	45.850	
6,300.0	6,227.5	6,211.5	6,207.6	19.7	11.4	168.58	179.5	136.6	1,037.9	1,015.3	22.62	45.889	
6,400.0	6,326.2	6,309.9	6,306.0	20.0	11.6	168.58	182.7	138.4	1,055.4	1,032.4	22.98	45.926	
6,500.0	6,425.0	6,408.4	6,404.4	20.3	11.8	168.58	185.9	140.3	1,072.9	1,049.5	23.34	45.963	
6,600.0	6,523.7	6,506.9	6,502.8	20.7	12.0	168.57	189.0	142.2	1,090.4	1,066.7	23.71	45.998	
6,700.0	6,622.4	6,605.3	6,601.1	21.0	12.2	168.57	192.2	144.1	1,107.9	1,083.8	24.07	46.032	
6,800.0	6,721.1	6,705.4	6,701.0	21.3	12.3	168.95	188.0	145.9	1,125.3	1,100.9	24.35	46.212	
6,900.0	6,819.9	6,800.0	6,793.4	21.7	12.4	170.11	168.1	147.5	1,142.9	1,118.4	24.51	46.636	
7,000.0	6,918.4	6,888.7	6,875.9	22.0	12.4	-136.83	135.9	148.7	1,161.2	1,136.7	24.50	47.389	
7,100.0	7,014.7	6,973.5	6,949.3	22.2	12.4	-111.10	93.5	149.7	1,179.8	1,155.2	24.60	47.959	
7,200.0	7,105.8	7,055.6	7,013.7	22.5	12.5	-99.43	42.6	150.5	1,198.0	1,173.1	24.87	48.179	
7,300.0	7,189.0	7,135.7	7,068.8	22.7	12.6	-92.56	-15.3	151.0	1,215.0	1,189.6	25.32	47.993	
7,400.0	7,261.6	7,214.2	7,114.5	22.9	12.9	-87.94	-79.1	151.3	1,230.1	1,204.2	25.91	47.478	
7,500.0	7,321.6	7,291.5	7,150.5	23.2	13.2	-84.70	-147.4	151.4	1,242.7	1,216.1	26.63	46.672	
7,600.0	7,367.1	7,368.0	7,176.9	23.6	13.7	-82.47	-219.1	151.3	1,252.5	1,225.0	27.47	45.591	
7,700.0	7,396.7	7,443.8	7,193.3	24.0	14.3	-81.08	-293.1	150.9	1,259.0	1,230.5	28.45	44.260	
7,800.0	7,409.5	7,519.4	7,199.9	24.6	14.9	-80.46	-368.3	150.4	1,262.0	1,232.4	29.57	42.680	
7,900.0	7,410.0	7,615.5	7,200.0	25.2	15.9	-80.42	-464.4	149.6	1,262.3	1,230.9	31.44	40.153	
8,000.0	7,410.0	7,715.5	7,200.0	25.9	17.0	-80.43	-564.4	148.7	1,262.5	1,228.8	33.68	37.480	
8,100.0	7,410.0	7,815.5	7,200.0	26.7	18.3	-80.43	-664.4	147.8	1,262.7	1,226.5	36.12	34.954	
8,200.0	7,410.0	7,915.5	7,200.0	27.7	19.6	-80.43	-764.4	147.0	1,262.8	1,224.1	38.72	32.615	
8,300.0	7,410.0	8,015.5	7,200.0	28.7	21.0	-80.43	-864.4	146.1	1,263.0	1,221.6	41.44	30.477	
8,400.0	7,410.0	8,115.5	7,200.0	29.7	22.4	-80.43	-964.4	145.2	1,263.2	1,218.9	44.27	28.536	
8,500.0	7,410.0	8,215.5	7,200.0	30.8	23.9	-80.43	-1,064.4	144.3	1,263.4	1,216.2	47.18	26.780	
8,600.0	7,410.0	8,315.5	7,200.0	32.0	25.4	-80.43	-1,164.4	143.5	1,263.5	1,213.4	50.16	25.192	
8,700.0	7,410.0	8,415.5	7,200.0	33.3	26.9	-80.43	-1,264.4	142.6	1,263.7	1,210.5	53.19	23.757	
8,800.0	7,410.0	8,515.5	7,200.0	34.5	28.5	-80.44	-1,364.4	141.7	1,263.9	1,207.6	56.28	22.457	
8,900.0	7,410.0	8,615.5	7,200.0	35.9	30.1	-80.44	-1,464.4	140.8	1,264.0	1,204.6	59.41	21.277	
9,000.0	7,410.0	8,715.5	7,200.0	37.2	31.7	-80.44	-1,564.4	140.0	1,264.2	1,201.6	62.57	20.204	
9,100.0	7,410.0	8,815.5	7,200.0	38.6	33.3	-80.44	-1,664.4	139.1	1,264.4	1,198.6	65.77	19.226	
9,200.0	7,410.0	8,915.5	7,200.0	40.0	34.9	-80.44	-1,764.4	138.2	1,264.6	1,195.6	68.98	18.331	
9,300.0	7,410.0	9,015.5	7,200.0	41.5	36.6	-80.44	-1,864.4	137.4	1,264.7	1,192.5	72.23	17.511	
9,400.0	7,410.0	9,115.5	7,200.0	42.9	38.2	-80.44	-1,964.4	136.5	1,264.9	1,189.4	75.49	16.757	
9,500.0	7,410.0	9,215.5	7,200.0	44.4	39.9	-80.44	-2,064.4	135.6	1,265.1	1,186.3	78.76	16.062	
9,600.0	7,410.0	9,315.5	7,200.0	45.9	41.5	-80.45	-2,164.4	134.7	1,265.2	1,183.2	82.06	15.419	
9,700.0	7,410.0	9,415.5	7,200.0	47.4	43.2	-80.45	-2,264.4	133.9	1,265.4	1,180.1	85.36	14.824	
9,800.0	7,410.0	9,515.5	7,200.0	49.0	44.9	-80.45	-2,364.4	133.0	1,265.6	1,176.9	88.68	14.271	
9,900.0	7,410.0	9,615.5	7,200.0	50.5	46.6	-80.45	-2,464.4	132.1	1,265.8	1,173.8	92.01	13.757	
10,000.0	7,410.0	9,715.5	7,200.0	52.1	48.3	-80.45	-2,564.4	131.3	1,265.9	1,170.6	95.35	13.277	
10,100.0	7,410.0	9,815.5	7,200.0	53.7	50.0	-80.45	-2,664.3	130.4	1,266.1	1,167.4	98.69	12.829	
10,200.0	7,410.0	9,915.5	7,200.0	55.3	51.7	-80.45	-2,764.3	129.5	1,266.3	1,164.2	102.05	12.409	
10,300.0	7,410.0	10,015.5	7,200.0	56.9	53.4	-80.46	-2,864.3	128.6	1,266.5	1,161.0	105.41	12.015	

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

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Grant Elmquist 2B-14H-C268
Project:	DJ Wattenberg	**TVD Reference:**	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	**MD Reference:**	KB @ 4894.0ft
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Grant Elmquist 2B-14H-C268	**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 S14-T2N-R68W (Grant Elmquist/Salisbury) - Grant Elmquist 2E-14H-C268 - Hz - Plan #2

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
10,400.0	7,410.0	10,115.5	7,200.0	58.5	55.1	-80.46	-2,964.3	127.8	1,266.6	1,157.9	108.78	11.644	
10,500.0	7,410.0	10,215.5	7,200.0	60.1	56.8	-80.46	-3,064.3	126.9	1,266.8	1,154.7	112.15	11.296	
10,600.0	7,410.0	10,315.5	7,200.0	61.7	58.5	-80.46	-3,164.3	126.0	1,267.0	1,151.4	115.53	10.967	
10,700.0	7,410.0	10,415.5	7,200.0	63.3	60.2	-80.46	-3,264.3	125.1	1,267.1	1,148.2	118.91	10.656	
10,800.0	7,410.0	10,515.5	7,200.0	65.0	61.9	-80.46	-3,364.3	124.3	1,267.3	1,145.0	122.30	10.363	
10,900.0	7,410.0	10,615.5	7,200.0	66.6	63.6	-80.46	-3,464.3	123.4	1,267.5	1,141.8	125.69	10.084	
11,000.0	7,410.0	10,715.5	7,200.0	68.3	65.4	-80.46	-3,564.3	122.5	1,267.7	1,138.6	129.08	9.820	
11,100.0	7,410.0	10,815.5	7,200.0	69.9	67.1	-80.47	-3,664.3	121.7	1,267.8	1,135.4	132.48	9.570	
11,200.0	7,410.0	10,915.5	7,200.0	71.6	68.8	-80.47	-3,764.3	120.8	1,268.0	1,132.1	135.88	9.332	
11,300.0	7,410.0	11,015.5	7,200.0	73.2	70.5	-80.47	-3,864.3	119.9	1,268.2	1,128.9	139.29	9.105	
11,400.0	7,410.0	11,115.5	7,200.0	74.9	72.3	-80.47	-3,964.3	119.0	1,268.4	1,125.7	142.70	8.889	
11,500.0	7,410.0	11,215.5	7,200.0	76.6	74.0	-80.47	-4,064.3	118.2	1,268.5	1,122.4	146.11	8.682	
11,600.0	7,410.0	11,315.5	7,200.0	78.2	75.7	-80.47	-4,164.3	117.3	1,268.7	1,119.2	149.52	8.485	
11,700.0	7,410.0	11,415.5	7,200.0	79.9	77.5	-80.47	-4,264.3	116.4	1,268.9	1,115.9	152.93	8.297	
11,800.0	7,410.0	11,515.5	7,200.0	81.6	79.2	-80.47	-4,364.3	115.5	1,269.0	1,112.7	156.35	8.117	
11,900.0	7,410.0	11,615.5	7,200.0	83.3	80.9	-80.48	-4,464.3	114.7	1,269.2	1,109.4	159.77	7.944	
12,000.0	7,410.0	11,715.5	7,200.0	85.0	82.6	-80.48	-4,564.3	113.8	1,269.4	1,106.2	163.19	7.779	
12,100.0	7,410.0	11,815.5	7,200.0	86.7	84.4	-80.48	-4,664.3	112.9	1,269.6	1,102.9	166.61	7.620	
12,200.0	7,410.0	11,915.5	7,200.0	88.4	86.1	-80.48	-4,764.3	112.1	1,269.7	1,099.7	170.03	7.468	
12,300.0	7,410.0	12,015.5	7,200.0	90.0	87.9	-80.48	-4,864.3	111.2	1,269.3	1,096.1	173.21	7.328	
12,400.0	7,410.0	12,115.5	7,200.0	91.7	89.6	-80.46	-4,964.2	110.3	1,267.3	1,091.0	176.27	7.189	
12,500.0	7,410.0	12,215.4	7,200.0	93.4	91.3	-80.42	-5,064.2	109.4	1,263.5	1,084.2	179.37	7.044	
12,600.0	7,410.0	12,315.3	7,200.0	95.1	93.1	-80.39	-5,164.1	108.6	1,259.3	1,076.5	182.78	6.890	
12,700.0	7,410.0	12,415.2	7,200.0	96.8	94.8	-80.36	-5,264.0	107.7	1,255.0	1,068.8	186.19	6.741	
12,800.0	7,410.0	12,515.1	7,200.0	98.5	96.5	-80.33	-5,363.9	106.8	1,250.8	1,061.2	189.60	6.597	
12,900.0	7,410.0	12,615.0	7,200.0	100.2	98.3	-80.29	-5,463.8	106.0	1,246.5	1,053.5	193.01	6.458	
13,000.0	7,410.0	12,714.9	7,200.0	101.9	100.0	-80.26	-5,563.7	105.1	1,242.3	1,045.8	196.42	6.325	
13,100.0	7,410.0	12,814.8	7,200.0	103.6	101.7	-80.22	-5,663.6	104.2	1,238.0	1,038.2	199.82	6.195	
13,200.0	7,410.0	12,914.7	7,200.0	105.3	103.5	-80.19	-5,763.5	103.3	1,233.8	1,030.5	203.23	6.071	
13,300.0	7,410.0	13,014.6	7,200.0	107.0	105.2	-80.16	-5,863.4	102.5	1,229.5	1,022.9	206.64	5.950	
13,400.0	7,410.0	13,114.5	7,200.0	108.7	107.0	-80.12	-5,963.3	101.6	1,225.3	1,015.2	210.05	5.833	
13,500.0	7,410.0	13,214.5	7,200.0	110.4	108.7	-80.09	-6,063.2	100.7	1,221.0	1,007.5	213.46	5.720	
13,600.0	7,410.0	13,314.4	7,200.0	112.1	110.5	-80.05	-6,163.1	99.8	1,216.8	999.9	216.87	5.611	
13,700.0	7,410.0	13,414.3	7,200.0	113.8	112.2	-80.02	-6,263.0	99.0	1,212.5	992.2	220.28	5.504	
13,800.0	7,410.0	13,514.2	7,200.0	115.5	113.9	-79.98	-6,362.9	98.1	1,208.3	984.6	223.69	5.402	
13,900.0	7,410.0	13,614.1	7,200.0	117.2	115.7	-79.95	-6,462.8	97.2	1,204.0	976.9	227.09	5.302	
14,000.0	7,410.0	13,714.0	7,200.0	118.9	117.4	-79.91	-6,562.7	96.4	1,199.8	969.3	230.50	5.205	
14,100.0	7,410.0	13,813.9	7,200.0	120.6	119.2	-79.87	-6,662.6	95.5	1,195.5	961.6	233.91	5.111	
14,157.7	7,410.0	13,861.3	7,200.0	121.6	120.0	-79.86	-6,710.0	95.1	1,193.1	957.4	235.70	5.062	SF

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Grant Elmquist 2B-14H-C268
Project:	DJ Wattenberg	**TVD Reference:**	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	**MD Reference:**	KB @ 4894.0ft
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Grant Elmquist 2B-14H-C268	**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 S14-T2N-R68W (Grant Elmquist/Salisbury) - Grant Elmquist 2F-14H-C268 - Hz - Plan #2

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	90.00	0.0	39.1	39.1				
100.0	100.0	100.0	100.0	0.2	0.2	90.00	0.0	39.1	39.1	38.8	0.30	128.879	
200.0	200.0	200.0	200.0	0.3	0.3	90.00	0.0	39.1	39.1	38.5	0.65	59.960	
300.0	300.0	300.0	300.0	0.5	0.5	90.00	0.0	39.1	39.1	38.1	1.00	39.068	CC, ES
400.0	400.0	400.0	400.0	0.7	0.7	169.46	0.0	39.1	40.9	39.5	1.35	30.252	
500.0	499.8	499.8	499.8	0.9	0.8	170.64	0.0	39.1	46.0	44.3	1.70	27.097	SF
600.0	599.5	597.7	597.7	1.1	1.0	171.44	0.5	40.7	56.2	54.2	2.04	27.542	
700.0	698.7	694.2	694.1	1.3	1.2	171.39	2.1	45.4	73.0	70.6	2.38	30.646	
800.0	797.5	789.0	788.5	1.6	1.4	170.93	4.6	53.0	95.9	93.1	2.72	35.217	
900.0	896.2	885.7	884.7	1.9	1.6	170.43	7.7	62.2	120.9	117.8	3.07	39.334	
1,000.0	995.0	982.5	981.1	2.3	1.8	170.11	10.8	71.5	145.9	142.5	3.43	42.592	
1,100.0	1,093.7	1,079.4	1,077.4	2.6	2.0	169.87	13.9	80.9	170.9	167.1	3.78	45.232	
1,200.0	1,192.4	1,176.2	1,173.7	2.9	2.3	169.70	17.0	90.2	195.9	191.8	4.13	47.413	
1,300.0	1,291.2	1,273.0	1,270.0	3.2	2.5	169.57	20.1	99.5	221.0	216.5	4.49	49.244	
1,400.0	1,389.9	1,369.8	1,366.3	3.5	2.7	169.46	23.2	108.8	246.0	241.2	4.84	50.803	
1,500.0	1,488.6	1,466.6	1,462.7	3.9	3.0	169.37	26.3	118.1	271.0	265.8	5.20	52.146	
1,600.0	1,587.3	1,563.4	1,559.0	4.2	3.2	169.30	29.5	127.4	296.1	290.5	5.55	53.315	
1,700.0	1,686.1	1,660.3	1,655.3	4.5	3.4	169.24	32.6	136.7	321.1	315.2	5.91	54.341	
1,800.0	1,784.8	1,757.1	1,751.6	4.8	3.7	169.19	35.7	146.0	346.1	339.9	6.26	55.249	
1,900.0	1,883.5	1,853.9	1,847.9	5.2	3.9	169.14	38.8	155.3	371.1	364.5	6.62	56.058	
2,000.0	1,982.2	1,950.7	1,944.2	5.5	4.1	169.10	41.9	164.6	396.2	389.2	6.98	56.783	
2,100.0	2,081.0	2,047.5	2,040.6	5.8	4.4	169.07	45.0	173.9	421.2	413.9	7.33	57.438	
2,200.0	2,179.7	2,144.3	2,136.9	6.2	4.6	169.04	48.1	183.2	446.2	438.5	7.69	58.030	
2,300.0	2,278.4	2,241.2	2,233.2	6.5	4.9	169.01	51.2	192.5	471.3	463.2	8.05	58.570	
2,400.0	2,377.1	2,338.0	2,329.5	6.8	5.1	168.99	54.3	201.8	496.3	487.9	8.40	59.064	
2,500.0	2,475.9	2,434.8	2,425.8	7.1	5.3	168.96	57.4	211.1	521.3	512.6	8.76	59.517	
2,600.0	2,574.6	2,531.6	2,522.2	7.5	5.6	168.94	60.5	220.4	546.4	537.2	9.12	59.934	
2,700.0	2,673.3	2,628.4	2,618.5	7.8	5.8	168.93	63.6	229.7	571.4	561.9	9.47	60.319	
2,800.0	2,772.1	2,725.2	2,714.8	8.1	6.1	168.91	66.7	239.0	596.4	586.6	9.83	60.676	
2,900.0	2,870.8	2,822.1	2,811.1	8.5	6.3	168.89	69.8	248.3	621.5	611.3	10.19	61.008	
3,000.0	2,969.5	2,918.9	2,907.4	8.8	6.5	168.88	72.9	257.6	646.5	635.9	10.54	61.317	
3,100.0	3,068.2	3,015.7	3,003.8	9.1	6.8	168.87	76.0	266.9	671.5	660.6	10.90	61.606	
3,200.0	3,167.0	3,112.5	3,100.1	9.4	7.0	168.85	79.1	276.2	696.5	685.3	11.26	61.876	
3,300.0	3,265.7	3,209.3	3,196.4	9.8	7.3	168.84	82.2	285.5	721.6	710.0	11.61	62.130	
3,400.0	3,364.4	3,306.1	3,292.7	10.1	7.5	168.83	85.3	294.8	746.6	734.6	11.97	62.368	
3,500.0	3,463.1	3,403.0	3,389.0	10.4	7.7	168.82	88.5	304.1	771.6	759.3	12.33	62.593	
3,600.0	3,561.9	3,499.8	3,485.3	10.8	8.0	168.81	91.6	313.4	796.7	784.0	12.68	62.804	
3,700.0	3,660.6	3,596.6	3,581.7	11.1	8.2	168.80	94.7	322.7	821.7	808.7	13.04	63.004	
3,800.0	3,759.3	3,693.4	3,678.0	11.4	8.5	168.79	97.8	332.0	846.7	833.3	13.40	63.194	
3,900.0	3,858.1	3,790.2	3,774.3	11.8	8.7	168.79	100.9	341.3	871.8	858.0	13.76	63.373	
4,000.0	3,956.8	3,887.0	3,870.6	12.1	8.9	168.78	104.0	350.6	896.8	882.7	14.11	63.543	
4,100.0	4,055.5	3,983.9	3,966.9	12.4	9.2	168.77	107.1	359.9	921.8	907.4	14.47	63.705	
4,200.0	4,154.2	4,080.7	4,063.3	12.7	9.4	168.76	110.2	369.2	946.9	932.0	14.83	63.859	
4,300.0	4,253.0	4,177.5	4,159.6	13.1	9.7	168.76	113.3	378.5	971.9	956.7	15.18	64.006	
4,400.0	4,351.7	4,274.3	4,255.9	13.4	9.9	168.75	116.4	387.8	996.9	981.4	15.54	64.146	
4,500.0	4,450.4	4,371.1	4,352.2	13.7	10.1	168.75	119.5	397.1	1,021.9	1,006.0	15.90	64.279	
4,600.0	4,549.1	4,467.9	4,448.5	14.1	10.4	168.74	122.6	406.4	1,047.0	1,030.7	16.26	64.407	
4,700.0	4,647.9	4,564.8	4,544.9	14.4	10.6	168.74	125.7	415.7	1,072.0	1,055.4	16.61	64.529	
4,800.0	4,746.6	4,661.6	4,641.2	14.7	10.9	168.73	128.8	425.0	1,097.0	1,080.1	16.97	64.646	
4,900.0	4,845.3	4,758.4	4,737.5	15.1	11.1	168.73	131.9	434.3	1,122.1	1,104.7	17.33	64.758	
5,000.0	4,944.1	4,855.2	4,833.8	15.4	11.3	168.72	135.0	443.6	1,147.1	1,129.4	17.68	64.866	
5,100.0	5,042.8	4,952.0	4,930.1	15.7	11.6	168.72	138.1	452.9	1,172.1	1,154.1	18.04	64.969	

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

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Grant Elmquist 2B-14H-C268
Project:	DJ Wattenberg	**TVD Reference:**	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	**MD Reference:**	KB @ 4894.0ft
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Grant Elmquist 2B-14H-C268	**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 S14-T2N-R68W (Grant Elmquist/Salisbury) - Grant Elmquist 2F-14H-C268 - Hz - Plan #2

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
5,200.0	5,141.5	5,048.8	5,026.4	16.1	11.8	168.71	141.2	462.2	1,197.2	1,178.8	18.40	65.068	
5,300.0	5,240.2	5,145.7	5,122.8	16.4	12.1	168.71	144.3	471.5	1,222.2	1,203.4	18.76	65.164	
5,400.0	5,339.0	5,242.5	5,219.1	16.7	12.3	168.71	147.5	480.8	1,247.2	1,228.1	19.11	65.256	
5,500.0	5,437.7	5,339.3	5,315.4	17.0	12.5	168.70	150.6	490.1	1,272.3	1,252.8	19.47	65.344	

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Grant Elmquist 2B-14H-C268
Project:	DJ Wattenberg	**TVD Reference:**	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	**MD Reference:**	KB @ 4894.0ft
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Grant Elmquist 2B-14H-C268	**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 S14-T2N-R68W (Grant Elmquist/Salisbury) - Grant Elmquist 2G-14H-C268 - Hz - Plan #2

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	11.0	11.0	0.0	0.0	90.00	0.0	50.3	50.3				
100.0	100.0	111.0	111.0	0.2	0.2	90.00	0.0	50.3	50.3	50.0	0.30	165.701	
200.0	200.0	211.0	211.0	0.3	0.3	90.00	0.0	50.3	50.3	49.7	0.65	77.091	
300.0	300.0	311.0	311.0	0.5	0.5	90.00	0.0	50.3	50.3	49.3	1.00	50.230	CC, ES
400.0	400.0	410.8	410.8	0.7	0.7	169.35	0.0	50.3	52.1	50.7	1.35	38.556	
500.0	499.8	508.7	508.7	0.9	0.8	169.79	0.5	52.3	59.2	57.5	1.69	34.954	SF
600.0	599.5	605.5	605.4	1.1	1.0	169.92	1.7	57.5	73.1	71.1	2.04	35.898	
700.0	698.7	700.0	699.5	1.3	1.2	169.85	3.5	65.6	93.6	91.2	2.37	39.417	
800.0	797.5	793.8	792.5	1.6	1.5	169.69	6.1	76.6	120.2	117.4	2.71	44.279	
900.0	896.2	888.3	886.1	1.9	1.7	169.45	9.2	90.0	149.5	146.4	3.06	48.848	
1,000.0	995.0	983.9	980.6	2.3	2.0	169.28	12.3	103.5	179.0	175.6	3.41	52.475	
1,100.0	1,093.7	1,079.4	1,075.2	2.6	2.3	169.15	15.4	117.1	208.4	204.7	3.76	55.416	
1,200.0	1,192.4	1,175.0	1,169.7	2.9	2.6	169.06	18.6	130.6	237.9	233.8	4.11	57.847	
1,300.0	1,291.2	1,270.6	1,264.2	3.2	2.8	168.99	21.7	144.2	267.4	262.9	4.46	59.890	
1,400.0	1,389.9	1,366.1	1,358.8	3.5	3.1	168.93	24.8	157.8	296.9	292.0	4.82	61.630	
1,500.0	1,488.6	1,461.7	1,453.3	3.9	3.4	168.88	28.0	171.3	326.3	321.2	5.17	63.129	
1,600.0	1,587.3	1,557.2	1,547.9	4.2	3.7	168.84	31.1	184.9	355.8	350.3	5.52	64.435	
1,700.0	1,686.1	1,652.8	1,642.4	4.5	4.0	168.81	34.2	198.4	385.3	379.4	5.87	65.581	
1,800.0	1,784.8	1,748.3	1,736.9	4.8	4.3	168.78	37.4	212.0	414.7	408.5	6.23	66.597	
1,900.0	1,883.5	1,843.9	1,831.5	5.2	4.6	168.75	40.5	225.5	444.2	437.6	6.58	67.502	
2,000.0	1,982.2	1,939.5	1,926.0	5.5	4.9	168.73	43.6	239.1	473.7	466.7	6.93	68.313	
2,100.0	2,081.0	2,035.0	2,020.6	5.8	5.2	168.71	46.8	252.7	503.1	495.9	7.29	69.045	
2,200.0	2,179.7	2,130.6	2,115.1	6.2	5.5	168.70	49.9	266.2	532.6	525.0	7.64	69.709	
2,300.0	2,278.4	2,226.1	2,209.6	6.5	5.7	168.68	53.0	279.8	562.1	554.1	7.99	70.314	
2,400.0	2,377.1	2,321.7	2,304.2	6.8	6.0	168.67	56.2	293.3	591.6	583.2	8.35	70.866	
2,500.0	2,475.9	2,417.3	2,398.7	7.1	6.3	168.65	59.3	306.9	621.0	612.3	8.70	71.374	
2,600.0	2,574.6	2,512.8	2,493.3	7.5	6.6	168.64	62.4	320.5	650.5	641.4	9.05	71.841	
2,700.0	2,673.3	2,608.4	2,587.8	7.8	6.9	168.63	65.6	334.0	680.0	670.6	9.41	72.273	
2,800.0	2,772.1	2,703.9	2,682.3	8.1	7.2	168.62	68.7	347.6	709.4	699.7	9.76	72.674	
2,900.0	2,870.8	2,799.5	2,776.9	8.5	7.5	168.61	71.8	361.1	738.9	728.8	10.12	73.046	
3,000.0	2,969.5	2,895.1	2,871.4	8.8	7.8	168.61	75.0	374.7	768.4	757.9	10.47	73.393	
3,100.0	3,068.2	2,990.6	2,966.0	9.1	8.1	168.60	78.1	388.3	797.9	787.0	10.82	73.716	
3,200.0	3,167.0	3,086.2	3,060.5	9.4	8.4	168.59	81.2	401.8	827.3	816.2	11.18	74.020	
3,300.0	3,265.7	3,181.7	3,155.0	9.8	8.7	168.58	84.4	415.4	856.8	845.3	11.53	74.304	
3,400.0	3,364.4	3,277.3	3,249.6	10.1	9.0	168.58	87.5	428.9	886.3	874.4	11.88	74.572	
3,500.0	3,463.1	3,372.8	3,344.1	10.4	9.3	168.57	90.6	442.5	915.7	903.5	12.24	74.824	
3,600.0	3,561.9	3,468.4	3,438.7	10.8	9.6	168.57	93.8	456.0	945.2	932.6	12.59	75.061	
3,700.0	3,660.6	3,564.0	3,533.2	11.1	9.9	168.56	96.9	469.6	974.7	961.7	12.95	75.286	
3,800.0	3,759.3	3,659.5	3,627.7	11.4	10.2	168.56	100.0	483.2	1,004.2	990.9	13.30	75.498	
3,900.0	3,858.1	3,755.1	3,722.3	11.8	10.5	168.55	103.2	496.7	1,033.6	1,020.0	13.65	75.700	
4,000.0	3,956.8	3,850.6	3,816.8	12.1	10.8	168.55	106.3	510.3	1,063.1	1,049.1	14.01	75.891	
4,100.0	4,055.5	3,946.2	3,911.4	12.4	11.1	168.54	109.4	523.8	1,092.6	1,078.2	14.36	76.073	
4,200.0	4,154.2	4,041.8	4,005.9	12.7	11.4	168.54	112.6	537.4	1,122.0	1,107.3	14.72	76.246	
4,300.0	4,253.0	4,137.3	4,100.4	13.1	11.7	168.54	115.7	551.0	1,151.5	1,136.4	15.07	76.410	
4,400.0	4,351.7	4,232.9	4,195.0	13.4	11.9	168.53	118.8	564.5	1,181.0	1,165.6	15.42	76.568	
4,500.0	4,450.4	4,328.4	4,289.5	13.7	12.2	168.53	122.0	578.1	1,210.5	1,194.7	15.78	76.718	
4,600.0	4,549.1	4,424.0	4,384.1	14.1	12.5	168.53	125.1	591.6	1,239.9	1,223.8	16.13	76.861	
4,700.0	4,647.9	4,519.5	4,478.6	14.4	12.8	168.52	128.2	605.2	1,269.4	1,252.9	16.49	76.998	

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Grant Elmquist 2B-14H-C268
Project:	DJ Wattenberg	**TVD Reference:**	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	**MD Reference:**	KB @ 4894.0ft
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Grant Elmquist 2B-14H-C268	**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 S14-T2N-R68W (Grant Elmquist/Salisbury) - Grant Salisbury 2A-14H-C268 - Hz - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-180.00	-553.7	0.0	553.7				
100.0	100.0	100.0	100.0	0.2	0.2	-180.00	-553.7	0.0	553.7	553.4	0.30	1,823.277	
200.0	200.0	200.0	200.0	0.3	0.3	-180.00	-553.7	0.0	553.7	553.1	0.65	848.263	
300.0	300.0	298.8	298.8	0.5	0.5	-179.82	-553.8	-1.7	553.8	552.8	1.00	553.902	
400.0	400.0	397.5	397.3	0.7	0.7	-100.46	-554.1	-6.8	554.5	553.1	1.37	403.876	
500.0	499.8	496.1	495.5	0.9	0.9	-100.08	-554.6	-15.3	556.0	554.2	1.79	311.500	
600.0	599.5	594.5	593.2	1.1	1.2	-99.68	-555.3	-27.1	558.5	556.2	2.26	246.760	
700.0	698.7	692.7	690.3	1.3	1.5	-99.28	-556.2	-42.2	561.8	559.0	2.83	198.738	
800.0	797.5	790.9	786.7	1.6	1.8	-98.87	-557.3	-60.6	566.0	562.5	3.48	162.813	
900.0	896.2	888.9	882.3	1.9	2.3	-98.24	-558.6	-82.3	570.6	566.4	4.18	136.416	
1,000.0	995.0	988.5	979.2	2.3	2.7	-97.49	-560.0	-105.4	575.4	570.5	4.92	117.026	
1,100.0	1,093.7	1,088.1	1,076.0	2.6	3.1	-96.75	-561.4	-128.6	580.3	574.7	5.66	102.510	
1,200.0	1,192.4	1,187.7	1,172.9	2.9	3.6	-96.02	-562.8	-151.8	585.4	578.9	6.41	91.293	
1,300.0	1,291.2	1,287.3	1,269.7	3.2	4.0	-95.30	-564.1	-174.9	590.5	583.3	7.17	82.397	
1,400.0	1,389.9	1,386.9	1,366.6	3.5	4.4	-94.60	-565.5	-198.1	595.7	587.7	7.92	75.188	
1,500.0	1,488.6	1,486.5	1,463.5	3.9	4.9	-93.91	-566.9	-221.3	601.0	592.3	8.68	69.238	
1,600.0	1,587.3	1,586.1	1,560.3	4.2	5.3	-93.23	-568.3	-244.4	606.3	596.9	9.44	64.252	
1,700.0	1,686.1	1,685.7	1,657.2	4.5	5.8	-92.57	-569.7	-267.6	611.8	601.6	10.19	60.018	
1,800.0	1,784.8	1,785.3	1,754.0	4.8	6.2	-91.91	-571.1	-290.8	617.3	606.4	10.95	56.382	
1,900.0	1,883.5	1,884.9	1,850.9	5.2	6.7	-91.27	-572.4	-313.9	623.0	611.3	11.70	53.228	
2,000.0	1,982.2	1,984.5	1,947.7	5.5	7.1	-90.64	-573.8	-337.1	628.7	616.2	12.46	50.470	
2,100.0	2,081.0	2,084.1	2,044.6	5.8	7.6	-90.02	-575.2	-360.3	634.4	621.2	13.21	48.039	
2,200.0	2,179.7	2,183.7	2,141.5	6.2	8.0	-89.41	-576.6	-383.4	640.3	626.3	13.96	45.883	
2,300.0	2,278.4	2,283.3	2,238.3	6.5	8.5	-88.81	-578.0	-406.6	646.2	631.5	14.70	43.957	
2,400.0	2,377.1	2,382.9	2,335.2	6.8	8.9	-88.23	-579.3	-429.8	652.2	636.8	15.44	42.229	
2,500.0	2,475.9	2,482.5	2,432.0	7.1	9.4	-87.65	-580.7	-453.0	658.3	642.1	16.19	40.671	
2,600.0	2,574.6	2,582.1	2,528.9	7.5	9.8	-87.08	-582.1	-476.1	664.4	647.5	16.92	39.259	
2,700.0	2,673.3	2,681.7	2,625.7	7.8	10.3	-86.53	-583.5	-499.3	670.6	652.9	17.66	37.975	
2,800.0	2,772.1	2,781.3	2,722.6	8.1	10.7	-85.98	-584.9	-522.5	676.8	658.4	18.39	36.803	
2,900.0	2,870.8	2,880.9	2,819.4	8.5	11.2	-85.45	-586.3	-545.6	683.1	664.0	19.12	35.729	
3,000.0	2,969.5	2,980.5	2,916.3	8.8	11.6	-84.92	-587.6	-568.8	689.5	669.6	19.85	34.742	
3,100.0	3,068.2	3,080.1	3,013.2	9.1	12.1	-84.41	-589.0	-592.0	695.9	675.3	20.57	33.833	
3,200.0	3,167.0	3,179.7	3,110.0	9.4	12.5	-83.90	-590.4	-615.1	702.4	681.1	21.29	32.993	
3,300.0	3,265.7	3,279.3	3,206.9	9.8	13.0	-83.40	-591.8	-638.3	708.9	686.9	22.01	32.215	
3,400.0	3,364.4	3,378.9	3,303.7	10.1	13.4	-82.92	-593.2	-661.5	715.5	692.8	22.72	31.493	
3,500.0	3,463.1	3,478.5	3,400.6	10.4	13.9	-82.44	-594.6	-684.6	722.1	698.7	23.43	30.821	
3,600.0	3,561.9	3,578.1	3,497.4	10.8	14.3	-81.97	-595.9	-707.8	728.8	704.7	24.14	30.195	
3,700.0	3,660.6	3,677.7	3,594.3	11.1	14.8	-81.51	-597.3	-731.0	735.5	710.7	24.84	29.609	
3,800.0	3,759.3	3,777.3	3,691.2	11.4	15.2	-81.05	-598.7	-754.1	742.3	716.8	25.54	29.062	
3,900.0	3,858.1	3,876.9	3,788.0	11.8	15.7	-80.61	-600.1	-777.3	749.1	722.9	26.24	28.549	
4,000.0	3,956.8	3,976.5	3,884.9	12.1	16.1	-80.17	-601.5	-800.5	756.0	729.1	26.94	28.067	
4,100.0	4,055.5	4,076.1	3,981.7	12.4	16.6	-79.74	-602.8	-823.6	762.9	735.3	27.63	27.614	
4,200.0	4,154.2	4,175.7	4,078.6	12.7	17.0	-79.32	-604.2	-846.8	769.9	741.6	28.32	27.188	
4,300.0	4,253.0	4,275.3	4,175.4	13.1	17.5	-78.91	-605.6	-870.0	776.9	747.9	29.00	26.786	
4,400.0	4,351.7	4,374.9	4,272.3	13.4	17.9	-78.50	-607.0	-893.2	783.9	754.2	29.69	26.407	
4,500.0	4,450.4	4,474.5	4,369.2	13.7	18.4	-78.10	-608.4	-916.3	791.0	760.6	30.37	26.049	
4,600.0	4,549.1	4,574.1	4,466.0	14.1	18.8	-77.71	-609.8	-939.5	798.1	767.0	31.04	25.710	
4,700.0	4,647.9	4,673.7	4,562.9	14.4	19.3	-77.32	-611.1	-962.7	805.2	773.5	31.72	25.388	
4,800.0	4,746.6	4,773.3	4,659.7	14.7	19.7	-76.94	-612.5	-985.8	812.4	780.0	32.39	25.084	
4,900.0	4,845.3	4,872.9	4,756.6	15.1	20.2	-76.57	-613.9	-1,009.0	819.6	786.6	33.06	24.795	
5,000.0	4,944.1	4,972.5	4,853.4	15.4	20.6	-76.21	-615.3	-1,032.2	826.9	793.2	33.72	24.520	
5,100.0	5,042.8	5,072.1	4,950.3	15.7	21.1	-75.85	-616.7	-1,055.3	834.2	799.8	34.39	24.259	

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Grant Elmquist 2B-14H-C268
Project:	DJ Wattenberg	**TVD Reference:**	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	**MD Reference:**	KB @ 4894.0ft
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Grant Elmquist 2B-14H-C268	**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 S14-T2N-R68W (Grant Elmquist/Salisbury) - Grant Salisbury 2A-14H-C268 - Hz - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
5,200.0	5,141.5	5,171.7	5,047.2	16.1	21.5	-75.49	-618.1	-1,078.5	841.5	806.4	35.05	24.011	
5,300.0	5,240.2	5,271.3	5,144.0	16.4	22.0	-75.15	-619.4	-1,101.7	848.8	813.1	35.70	23.774	
5,400.0	5,339.0	5,370.9	5,240.9	16.7	22.4	-74.81	-620.8	-1,124.8	856.2	819.9	36.36	23.549	
5,500.0	5,437.7	5,470.5	5,337.7	17.0	22.9	-74.47	-622.2	-1,148.0	863.6	826.6	37.01	23.334	
5,600.0	5,536.4	5,570.1	5,434.6	17.4	23.3	-74.14	-623.6	-1,171.2	871.1	833.4	37.66	23.129	
5,700.0	5,635.1	5,669.7	5,531.4	17.7	23.8	-73.82	-625.0	-1,194.3	878.5	840.2	38.31	22.932	
5,800.0	5,733.9	5,769.3	5,628.3	18.0	24.2	-73.50	-626.3	-1,217.5	886.0	847.1	38.95	22.745	
5,900.0	5,832.6	5,868.9	5,725.1	18.4	24.7	-73.19	-627.7	-1,240.7	893.5	853.9	39.60	22.566	
6,000.0	5,931.3	5,968.5	5,822.0	18.7	25.1	-72.88	-629.1	-1,263.9	901.1	860.8	40.24	22.394	
6,100.0	6,030.0	6,068.1	5,918.9	19.0	25.6	-72.58	-630.5	-1,287.0	908.7	867.8	40.88	22.229	
6,200.0	6,128.8	6,167.7	6,015.7	19.4	26.0	-72.28	-631.9	-1,310.2	916.3	874.7	41.51	22.072	
6,300.0	6,227.5	6,267.3	6,112.6	19.7	26.5	-71.99	-633.3	-1,333.4	923.9	881.7	42.15	21.921	
6,400.0	6,326.2	6,366.9	6,209.4	20.0	26.9	-71.70	-634.6	-1,356.5	931.5	888.7	42.78	21.776	
6,500.0	6,425.0	6,466.5	6,306.3	20.3	27.4	-71.41	-636.0	-1,379.7	939.2	895.8	43.41	21.637	
6,600.0	6,523.7	6,566.1	6,403.1	20.7	27.8	-71.14	-637.4	-1,402.9	946.9	902.8	44.03	21.503	
6,700.0	6,622.4	6,665.7	6,500.0	21.0	28.3	-70.86	-638.8	-1,426.0	954.6	909.9	44.66	21.375	
6,800.0	6,721.1	6,765.3	6,596.9	21.3	28.7	-70.59	-640.2	-1,449.2	962.3	917.0	45.28	21.251	
6,900.0	6,819.9	8,228.9	7,438.0	21.7	35.4	-12.20	202.3	-1,638.5	892.4	859.6	32.84	27.179	
7,000.0	6,918.4	8,224.4	7,438.0	22.0	35.4	48.35	197.8	-1,638.5	815.2	786.2	29.02	28.093	
7,100.0	7,014.7	8,202.6	7,438.0	22.2	35.2	78.51	176.0	-1,638.8	744.9	717.3	27.63	26.961	
7,200.0	7,105.8	8,164.3	7,438.0	22.5	34.9	91.15	137.7	-1,639.4	684.6	657.2	27.46	24.933	
7,300.0	7,189.0	8,110.5	7,438.0	22.7	34.6	96.45	83.9	-1,640.1	636.4	609.0	27.44	23.189	
7,400.0	7,261.6	8,042.9	7,438.0	22.9	34.2	97.86	16.4	-1,641.1	600.8	573.3	27.53	21.822	
7,500.0	7,321.6	7,963.6	7,438.0	23.2	33.8	97.10	-62.9	-1,642.2	577.0	549.2	27.75	20.793	
7,600.0	7,367.1	7,833.3	7,425.0	23.6	33.2	92.65	-192.3	-1,640.9	559.6	531.6	28.04	19.959	
7,700.0	7,396.7	7,720.0	7,390.9	24.0	32.7	87.83	-300.0	-1,634.2	545.2	516.8	28.42	19.187	
7,800.0	7,409.5	7,621.6	7,345.1	24.6	32.3	82.89	-386.4	-1,624.5	535.4	506.6	28.86	18.554	
7,900.0	7,410.0	7,536.6	7,294.5	25.2	31.9	77.43	-453.6	-1,613.3	530.9	501.5	29.43	18.039	
7,912.2	7,410.0	7,527.5	7,288.5	25.3	31.9	76.77	-460.4	-1,612.0	530.9	501.4	29.52	17.986	CC, ES
8,000.0	7,410.0	7,469.2	7,247.8	25.9	31.7	72.27	-501.0	-1,602.8	534.6	504.5	30.07	17.778	SF
8,100.0	7,410.0	7,416.0	7,207.4	26.7	31.5	67.85	-534.3	-1,593.6	549.3	518.6	30.72	17.883	
8,200.0	7,410.0	7,373.7	7,173.2	27.7	31.3	64.18	-557.9	-1,585.8	576.2	544.9	31.38	18.364	
8,300.0	7,410.0	7,339.5	7,144.4	28.7	31.2	61.18	-575.1	-1,579.1	615.1	583.0	32.06	19.187	
8,400.0	7,410.0	7,311.5	7,120.1	29.7	31.1	58.71	-587.8	-1,573.5	664.6	631.8	32.78	20.278	
8,500.0	7,410.0	7,288.3	7,099.5	30.8	31.0	56.67	-597.4	-1,568.7	723.1	689.6	33.53	21.568	
8,600.0	7,410.0	7,268.8	7,081.9	32.0	30.9	54.96	-604.8	-1,564.6	788.9	754.6	34.31	22.992	
8,700.0	7,410.0	7,250.0	7,064.8	33.3	30.9	53.34	-611.4	-1,560.6	860.5	825.5	35.07	24.536	
8,800.0	7,410.0	7,250.0	7,064.8	34.5	30.9	53.34	-611.4	-1,560.6	937.0	900.7	36.30	25.816	
8,900.0	7,410.0	7,225.5	7,042.1	35.9	30.8	51.26	-619.0	-1,555.3	1,016.8	980.0	36.84	27.601	
9,000.0	7,410.0	7,200.0	7,018.2	37.2	30.7	49.13	-626.0	-1,549.7	1,100.1	1,062.8	37.28	29.510	
9,100.0	7,410.0	7,200.0	7,018.2	38.6	30.7	49.13	-626.0	-1,549.7	1,185.2	1,146.7	38.48	30.804	
9,200.0	7,410.0	7,200.0	7,018.2	40.0	30.7	49.13	-626.0	-1,549.7	1,272.5	1,232.8	39.69	32.064	

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Grant Elmquist 2B-14H-C268
Project:	DJ Wattenberg	**TVD Reference:**	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	**MD Reference:**	KB @ 4894.0ft
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Grant Elmquist 2B-14H-C268	**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 S14-T2N-R68W (Grant Elmquist/Salisbury) - Grant Salisbury 2B-14H-C268 - Hz - Plan #1

Survey Program: 0-MWD

Offset Site Error: 0.0 ft

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	179.13	-553.7	8.4	553.8				
100.0	100.0	100.0	100.0	0.2	0.2	179.13	-553.7	8.4	553.8	553.5	0.30	1,823.487	
200.0	200.0	200.0	200.0	0.3	0.3	179.13	-553.7	8.4	553.8	553.1	0.65	848.361	
300.0	300.0	300.0	300.0	0.5	0.5	179.13	-553.7	8.4	553.8	552.8	1.00	552.765	
400.0	400.0	398.7	398.7	0.7	0.7	-101.86	-553.8	6.7	554.2	552.9	1.35	409.361	
500.0	499.8	497.4	497.2	0.9	0.9	-101.83	-554.3	1.6	555.7	553.9	1.73	320.657	
600.0	599.5	596.1	595.5	1.1	1.1	-101.77	-555.0	-6.8	558.0	555.9	2.16	257.842	
700.0	698.7	694.7	693.5	1.3	1.3	-101.70	-556.0	-18.7	561.4	558.7	2.67	210.168	
800.0	797.5	793.3	790.9	1.6	1.6	-101.62	-557.2	-33.8	565.6	562.3	3.26	173.627	
900.0	896.2	892.8	888.7	1.9	2.0	-101.38	-558.7	-51.6	570.1	566.2	3.88	146.784	
1,000.0	995.0	992.7	987.0	2.3	2.3	-101.14	-560.2	-69.6	574.6	570.0	4.53	126.836	
1,100.0	1,093.7	1,092.5	1,085.2	2.6	2.6	-100.89	-561.7	-87.6	579.1	573.9	5.19	111.626	
1,200.0	1,192.4	1,192.4	1,183.4	2.9	3.0	-100.65	-563.2	-105.6	583.6	577.8	5.85	99.711	
1,300.0	1,291.2	1,292.3	1,281.6	3.2	3.3	-100.42	-564.7	-123.6	588.2	581.7	6.52	90.157	
1,400.0	1,389.9	1,392.1	1,379.9	3.5	3.7	-100.19	-566.2	-141.6	592.7	585.5	7.20	82.342	
1,500.0	1,488.6	1,492.0	1,478.1	3.9	4.1	-99.96	-567.7	-159.5	597.3	589.4	7.88	75.840	
1,600.0	1,587.3	1,591.9	1,576.3	4.2	4.4	-99.74	-569.2	-177.5	601.9	593.3	8.56	70.351	
1,700.0	1,686.1	1,691.7	1,674.5	4.5	4.8	-99.52	-570.6	-195.5	606.4	597.2	9.24	65.659	
1,800.0	1,784.8	1,791.6	1,772.8	4.8	5.1	-99.30	-572.1	-213.5	611.0	601.1	9.92	61.605	
1,900.0	1,883.5	1,891.5	1,871.0	5.2	5.5	-99.08	-573.6	-231.5	615.6	605.0	10.60	58.068	
2,000.0	1,982.2	1,991.3	1,969.2	5.5	5.9	-98.87	-575.1	-249.5	620.2	609.0	11.29	54.956	
2,100.0	2,081.0	2,091.2	2,067.4	5.8	6.2	-98.67	-576.6	-267.5	624.9	612.9	11.97	52.197	
2,200.0	2,179.7	2,191.1	2,165.6	6.2	6.6	-98.46	-578.1	-285.5	629.5	616.8	12.66	49.736	
2,300.0	2,278.4	2,290.9	2,263.9	6.5	6.9	-98.26	-579.6	-303.4	634.1	620.8	13.34	47.527	
2,400.0	2,377.1	2,390.8	2,362.1	6.8	7.3	-98.06	-581.1	-321.4	638.8	624.7	14.03	45.533	
2,500.0	2,475.9	2,490.7	2,460.3	7.1	7.7	-97.86	-582.6	-339.4	643.4	628.7	14.71	43.725	
2,600.0	2,574.6	2,590.5	2,558.5	7.5	8.0	-97.67	-584.1	-357.4	648.1	632.7	15.40	42.078	
2,700.0	2,673.3	2,690.4	2,656.8	7.8	8.4	-97.48	-585.6	-375.4	652.7	636.6	16.09	40.572	
2,800.0	2,772.1	2,790.3	2,755.0	8.1	8.8	-97.29	-587.1	-393.4	657.4	640.6	16.77	39.189	
2,900.0	2,870.8	2,890.2	2,853.2	8.5	9.1	-97.11	-588.6	-411.4	662.1	644.6	17.46	37.916	
3,000.0	2,969.5	2,990.0	2,951.4	8.8	9.5	-96.93	-590.1	-429.3	666.7	648.6	18.15	36.739	
3,100.0	3,068.2	3,089.9	3,049.7	9.1	9.8	-96.75	-591.6	-447.3	671.4	652.6	18.83	35.648	
3,200.0	3,167.0	3,189.8	3,147.9	9.4	10.2	-96.57	-593.1	-465.3	676.1	656.6	19.52	34.635	
3,300.0	3,265.7	3,289.6	3,246.1	9.8	10.6	-96.39	-594.6	-483.3	680.8	660.6	20.21	33.691	
3,400.0	3,364.4	3,389.5	3,344.3	10.1	10.9	-96.22	-596.1	-501.3	685.5	664.6	20.89	32.809	
3,500.0	3,463.1	3,489.4	3,442.6	10.4	11.3	-96.05	-597.6	-519.3	690.3	668.7	21.58	31.984	
3,600.0	3,561.9	3,589.2	3,540.8	10.8	11.7	-95.88	-599.0	-537.3	695.0	672.7	22.27	31.210	
3,700.0	3,660.6	3,689.1	3,639.0	11.1	12.0	-95.72	-600.5	-555.3	699.7	676.8	22.95	30.483	
3,800.0	3,759.3	3,789.0	3,737.2	11.4	12.4	-95.55	-602.0	-573.2	704.4	680.8	23.64	29.799	
3,900.0	3,858.1	3,888.8	3,835.4	11.8	12.8	-95.39	-603.5	-591.2	709.2	684.8	24.33	29.153	
4,000.0	3,956.8	3,988.7	3,933.7	12.1	13.1	-95.23	-605.0	-609.2	713.9	688.9	25.01	28.544	
4,100.0	4,055.5	4,088.6	4,031.9	12.4	13.5	-95.07	-606.5	-627.2	718.7	693.0	25.70	27.967	
4,200.0	4,154.2	4,188.4	4,130.1	12.7	13.8	-94.92	-608.0	-645.2	723.4	697.0	26.38	27.421	
4,300.0	4,253.0	4,288.3	4,228.3	13.1	14.2	-94.77	-609.5	-663.2	728.2	701.1	27.07	26.903	
4,400.0	4,351.7	4,388.2	4,326.6	13.4	14.6	-94.62	-611.0	-681.2	732.9	705.2	27.75	26.410	
4,500.0	4,450.4	4,488.0	4,424.8	13.7	14.9	-94.47	-612.5	-699.1	737.7	709.3	28.44	25.942	
4,600.0	4,549.1	4,587.9	4,523.0	14.1	15.3	-94.32	-614.0	-717.1	742.5	713.4	29.12	25.497	
4,700.0	4,647.9	4,687.8	4,621.2	14.4	15.7	-94.17	-615.5	-735.1	747.3	717.5	29.81	25.072	
4,800.0	4,746.6	4,787.6	4,719.5	14.7	16.0	-94.03	-617.0	-753.1	752.1	721.6	30.49	24.666	
4,900.0	4,845.3	4,887.5	4,817.7	15.1	16.4	-93.89	-618.5	-771.1	756.8	725.7	31.17	24.279	
5,000.0	4,944.1	4,987.4	4,915.9	15.4	16.8	-93.75	-620.0	-789.1	761.6	729.8	31.86	23.908	
5,100.0	5,042.8	5,087.2	5,014.1	15.7	17.1	-93.61	-621.5	-807.1	766.4	733.9	32.54	23.554	

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

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Grant Elmquist 2B-14H-C268
Project:	DJ Wattenberg	**TVD Reference:**	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	**MD Reference:**	KB @ 4894.0ft
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Grant Elmquist 2B-14H-C268	**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 S14-T2N-R68W (Grant Elmquist/Salisbury) - Grant Salisbury 2B-14H-C268 - Hz - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
5,200.0	5,141.5	5,187.1	5,112.4	16.1	17.5	-93.48	-623.0	-825.1	771.2	738.0	33.22	23.214	
5,300.0	5,240.2	5,287.0	5,210.6	16.4	17.9	-93.34	-624.5	-843.0	776.0	742.1	33.91	22.888	
5,400.0	5,339.0	5,386.8	5,308.8	16.7	18.2	-93.21	-625.9	-861.0	780.9	746.3	34.59	22.576	
5,500.0	5,437.7	5,486.7	5,407.0	17.0	18.6	-93.08	-627.4	-879.0	785.7	750.4	35.27	22.276	
5,600.0	5,536.4	5,586.6	5,505.2	17.4	18.9	-92.95	-628.9	-897.0	790.5	754.5	35.95	21.987	
5,700.0	5,635.1	5,686.5	5,603.5	17.7	19.3	-92.82	-630.4	-915.0	795.3	758.7	36.63	21.710	
5,800.0	5,733.9	5,786.3	5,701.7	18.0	19.7	-92.69	-631.9	-933.0	800.1	762.8	37.32	21.442	
5,900.0	5,832.6	5,886.2	5,799.9	18.4	20.0	-92.57	-633.4	-951.0	805.0	767.0	38.00	21.185	
6,000.0	5,931.3	5,986.1	5,898.1	18.7	20.4	-92.44	-634.9	-969.0	809.8	771.1	38.68	20.937	
6,100.0	6,030.0	6,085.9	5,996.4	19.0	20.8	-92.32	-636.4	-986.9	814.6	775.3	39.36	20.698	
6,200.0	6,128.8	6,185.8	6,094.6	19.4	21.1	-92.20	-637.9	-1,004.9	819.5	779.4	40.04	20.467	
6,300.0	6,227.5	6,285.7	6,192.8	19.7	21.5	-92.08	-639.4	-1,022.9	824.3	783.6	40.72	20.244	
6,400.0	6,326.2	6,385.5	6,291.0	20.0	21.9	-91.96	-640.9	-1,040.9	829.2	787.8	41.40	20.029	
6,500.0	6,425.0	6,485.4	6,389.3	20.3	22.2	-91.85	-642.4	-1,058.9	834.0	792.0	42.08	19.821	
6,600.0	6,523.7	7,926.1	7,231.0	20.7	28.9	-19.30	184.2	-1,213.0	755.3	721.2	34.15	22.115	
6,700.0	6,622.4	7,929.1	7,231.0	21.0	29.0	-18.18	187.3	-1,213.0	657.7	623.8	33.96	19.365	
6,800.0	6,721.1	7,932.1	7,231.0	21.3	29.0	-17.04	190.3	-1,213.0	560.9	527.2	33.77	16.610	
6,900.0	6,819.9	7,935.2	7,231.0	21.7	29.0	-15.91	193.4	-1,213.0	465.5	431.9	33.57	13.863	
7,000.0	6,918.4	7,930.8	7,231.0	22.0	29.0	55.39	189.0	-1,213.0	372.5	344.7	27.80	13.396	
7,100.0	7,014.7	7,909.3	7,231.0	22.2	28.8	87.58	167.5	-1,213.0	286.0	258.6	27.36	10.454	
7,200.0	7,105.8	7,871.2	7,231.0	22.5	28.5	95.42	129.4	-1,213.0	212.9	185.5	27.39	7.774	
7,300.0	7,189.0	7,817.6	7,231.0	22.7	28.0	90.04	75.8	-1,213.0	164.0	135.9	28.07	5.842	
7,391.6	7,256.0	7,756.3	7,231.0	22.9	27.6	76.85	14.5	-1,213.0	149.3	119.4	29.90	4.994	CC
7,400.0	7,261.6	7,750.2	7,231.0	22.9	27.5	75.40	8.4	-1,213.0	149.4	119.4	30.06	4.972	ES, SF
7,500.0	7,321.6	7,671.0	7,231.0	23.2	27.0	57.91	-70.8	-1,213.0	163.4	133.0	30.41	5.371	
7,600.0	7,367.1	7,600.0	7,227.0	23.6	26.5	45.31	-141.6	-1,212.3	190.0	162.1	27.88	6.814	
7,700.0	7,396.7	7,526.0	7,213.7	24.0	26.1	35.15	-214.4	-1,209.9	221.9	197.8	24.11	9.204	
7,800.0	7,409.5	7,457.6	7,193.4	24.6	25.8	28.04	-279.5	-1,206.1	254.5	233.1	21.39	11.896	
7,900.0	7,410.0	7,400.0	7,170.4	25.2	25.5	24.28	-332.1	-1,201.9	289.1	268.3	20.77	13.922	
8,000.0	7,410.0	7,334.2	7,137.9	25.9	25.2	20.47	-389.0	-1,196.0	333.3	313.1	20.16	16.528	
8,100.0	7,410.0	7,282.8	7,108.3	26.7	25.0	17.59	-430.6	-1,190.5	386.6	366.8	19.81	19.515	
8,200.0	7,410.0	7,237.9	7,079.4	27.7	24.8	15.23	-464.6	-1,185.3	447.6	428.1	19.58	22.859	
8,300.0	7,410.0	7,200.0	7,053.1	28.7	24.7	13.38	-491.4	-1,180.4	514.9	495.4	19.47	26.447	
8,400.0	7,410.0	7,164.5	7,026.9	29.7	24.6	11.78	-514.9	-1,175.6	587.3	567.9	19.40	30.265	
8,500.0	7,410.0	7,134.6	7,003.8	30.8	24.5	10.52	-533.3	-1,171.4	663.7	644.3	19.41	34.189	
8,600.0	7,410.0	7,100.0	6,975.8	32.0	24.3	9.18	-553.1	-1,166.3	743.7	724.3	19.38	38.363	
8,700.0	7,410.0	7,100.0	6,975.8	33.3	24.3	9.18	-553.1	-1,166.3	826.4	806.7	19.70	41.946	
8,800.0	7,410.0	7,050.0	6,933.6	34.5	24.2	7.43	-578.6	-1,158.6	911.2	891.7	19.54	46.631	
8,900.0	7,410.0	7,050.0	6,933.6	35.9	24.2	7.43	-578.6	-1,158.6	997.6	977.8	19.84	50.289	
9,000.0	7,410.0	7,030.7	6,916.7	37.2	24.1	6.82	-587.5	-1,155.5	1,085.8	1,065.9	19.96	54.394	
9,100.0	7,410.0	7,000.0	6,889.2	38.6	24.0	5.90	-600.3	-1,150.4	1,175.7	1,155.7	20.00	58.795	
9,200.0	7,410.0	7,000.0	6,889.2	40.0	24.0	5.90	-600.3	-1,150.4	1,266.0	1,245.7	20.27	62.447	

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

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Grant Elmquist 2B-14H-C268
Project:	DJ Wattenberg	**TVD Reference:**	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	**MD Reference:**	KB @ 4894.0ft
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Grant Elmquist 2B-14H-C268	**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 S14-T2N-R68W (Grant Elmquist/Salisbury) - Grant Salisbury 2C-14H-C268 - Hz - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	177.98	-553.7	19.6	554.1				
100.0	100.0	100.0	100.0	0.2	0.2	177.98	-553.7	19.6	554.1	553.7	0.30	1,824.416	
200.0	200.0	200.0	200.0	0.3	0.3	177.98	-553.7	19.6	554.1	553.4	0.65	848.793	
300.0	300.0	300.0	300.0	0.5	0.5	177.98	-553.7	19.6	554.1	553.1	1.00	553.046	
400.0	400.0	400.0	400.0	0.7	0.7	-103.19	-553.7	19.6	554.4	553.1	1.35	409.663	
500.0	499.8	498.4	498.4	0.9	0.8	-103.51	-553.9	17.9	555.8	554.1	1.72	323.591	
600.0	599.5	596.9	596.8	1.1	1.0	-103.80	-554.5	12.9	558.2	556.1	2.12	263.450	
700.0	698.7	695.5	695.0	1.3	1.2	-104.06	-555.5	4.5	561.8	559.2	2.58	217.679	
800.0	797.5	794.6	793.4	1.6	1.5	-104.33	-556.9	-7.1	566.3	563.2	3.10	182.650	
900.0	896.2	894.4	892.5	1.9	1.7	-104.64	-558.4	-19.4	571.0	567.4	3.65	156.593	
1,000.0	995.0	994.3	991.5	2.3	2.0	-104.95	-559.9	-31.6	575.8	571.6	4.21	136.867	
1,100.0	1,093.7	1,094.1	1,090.6	2.6	2.2	-105.25	-561.4	-43.9	580.5	575.8	4.78	121.550	
1,200.0	1,192.4	1,194.0	1,189.7	2.9	2.5	-105.54	-562.9	-56.2	585.3	580.0	5.35	109.376	
1,300.0	1,291.2	1,293.8	1,288.8	3.2	2.8	-105.83	-564.4	-68.4	590.1	584.2	5.93	99.500	
1,400.0	1,389.9	1,393.6	1,387.8	3.5	3.1	-106.12	-565.9	-80.7	594.9	588.4	6.51	91.345	
1,500.0	1,488.6	1,493.5	1,486.9	3.9	3.3	-106.40	-567.4	-92.9	599.8	592.7	7.10	84.507	
1,600.0	1,587.3	1,593.3	1,586.0	4.2	3.6	-106.67	-568.9	-105.2	604.6	596.9	7.68	78.697	
1,700.0	1,686.1	1,693.2	1,685.1	4.5	3.9	-106.95	-570.4	-117.5	609.4	601.2	8.27	73.703	
1,800.0	1,784.8	1,793.0	1,784.1	4.8	4.1	-107.21	-571.8	-129.7	614.3	605.4	8.86	69.368	
1,900.0	1,883.5	1,892.9	1,883.2	5.2	4.4	-107.48	-573.3	-142.0	619.2	609.7	9.44	65.571	
2,000.0	1,982.2	1,992.7	1,982.3	5.5	4.7	-107.74	-574.8	-154.3	624.1	614.0	10.03	62.218	
2,100.0	2,081.0	2,092.5	2,081.3	5.8	5.0	-107.99	-576.3	-166.5	629.0	618.4	10.62	59.238	
2,200.0	2,179.7	2,192.4	2,180.4	6.2	5.2	-108.24	-577.8	-178.8	633.9	622.7	11.21	56.571	
2,300.0	2,278.4	2,292.2	2,279.5	6.5	5.5	-108.49	-579.3	-191.1	638.8	627.0	11.79	54.172	
2,400.0	2,377.1	2,392.1	2,378.6	6.8	5.8	-108.73	-580.8	-203.3	643.8	631.4	12.38	52.003	
2,500.0	2,475.9	2,491.9	2,477.6	7.1	6.1	-108.97	-582.3	-215.6	648.7	635.7	12.97	50.032	
2,600.0	2,574.6	2,591.7	2,576.7	7.5	6.4	-109.21	-583.8	-227.8	653.7	640.1	13.55	48.234	
2,700.0	2,673.3	2,691.6	2,675.8	7.8	6.6	-109.44	-585.3	-240.1	658.6	644.5	14.14	46.587	
2,800.0	2,772.1	2,791.4	2,774.9	8.1	6.9	-109.67	-586.7	-252.4	663.6	648.9	14.72	45.073	
2,900.0	2,870.8	2,891.3	2,873.9	8.5	7.2	-109.90	-588.2	-264.6	668.6	653.3	15.31	43.678	
3,000.0	2,969.5	2,991.1	2,973.0	8.8	7.5	-110.12	-589.7	-276.9	673.6	657.7	15.89	42.386	
3,100.0	3,068.2	3,090.9	3,072.1	9.1	7.7	-110.34	-591.2	-289.2	678.6	662.2	16.48	41.189	
3,200.0	3,167.0	3,190.8	3,171.2	9.4	8.0	-110.55	-592.7	-301.4	683.7	666.6	17.06	40.075	
3,300.0	3,265.7	3,290.6	3,270.2	9.8	8.3	-110.77	-594.2	-313.7	688.7	671.0	17.64	39.036	
3,400.0	3,364.4	3,390.5	3,369.3	10.1	8.6	-110.98	-595.7	-326.0	693.7	675.5	18.22	38.066	
3,500.0	3,463.1	3,490.3	3,468.4	10.4	8.8	-111.18	-597.2	-338.2	698.8	680.0	18.81	37.157	
3,600.0	3,561.9	3,590.1	3,567.5	10.8	9.1	-111.39	-598.7	-350.5	703.8	684.5	19.39	36.304	
3,700.0	3,660.6	3,690.0	3,666.5	11.1	9.4	-111.59	-600.2	-362.7	708.9	688.9	19.97	35.503	
3,800.0	3,759.3	3,789.8	3,765.6	11.4	9.7	-111.79	-601.6	-375.0	714.0	693.4	20.55	34.748	
3,900.0	3,858.1	3,889.7	3,864.7	11.8	10.0	-111.98	-603.1	-387.3	719.1	697.9	21.13	34.036	
4,000.0	3,956.8	3,989.5	3,963.7	12.1	10.2	-112.17	-604.6	-399.5	724.2	702.5	21.71	33.363	
4,100.0	4,055.5	4,089.3	4,062.8	12.4	10.5	-112.36	-606.1	-411.8	729.3	707.0	22.28	32.726	
4,200.0	4,154.2	4,189.2	4,161.9	12.7	10.8	-112.55	-607.6	-424.1	734.4	711.5	22.86	32.123	
4,300.0	4,253.0	4,289.0	4,261.0	13.1	11.1	-112.73	-609.1	-436.3	739.5	716.1	23.44	31.550	
4,400.0	4,351.7	4,388.9	4,360.0	13.4	11.3	-112.92	-610.6	-448.6	744.6	720.6	24.02	31.006	
4,500.0	4,450.4	4,488.7	4,459.1	13.7	11.6	-113.10	-612.1	-460.9	749.8	725.2	24.59	30.489	
4,600.0	4,549.1	4,588.6	4,558.2	14.1	11.9	-113.27	-613.6	-473.1	754.9	729.7	25.17	29.996	
4,700.0	4,647.9	4,688.4	4,657.3	14.4	12.2	-113.45	-615.0	-485.4	760.0	734.3	25.74	29.526	
4,800.0	4,746.6	4,788.2	4,756.3	14.7	12.5	-113.62	-616.5	-497.6	765.2	738.9	26.32	29.078	
4,900.0	4,845.3	4,888.1	4,855.4	15.1	12.7	-113.79	-618.0	-509.9	770.4	743.5	26.89	28.650	
5,000.0	4,944.1	4,987.9	4,954.5	15.4	13.0	-113.96	-619.5	-522.2	775.5	748.1	27.46	28.240	
5,100.0	5,042.8	5,087.8	5,053.6	15.7	13.3	-114.12	-621.0	-534.4	780.7	752.7	28.03	27.848	

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

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Grant Elmquist 2B-14H-C268
Project:	DJ Wattenberg	**TVD Reference:**	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	**MD Reference:**	KB @ 4894.0ft
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Grant Elmquist 2B-14H-C268	**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 S14-T2N-R68W (Grant Elmquist/Salisbury) - Grant Salisbury 2C-14H-C268 - Hz - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
5,200.0	5,141.5	5,187.6	5,152.6	16.1	13.6	-114.29	-622.5	-546.7	785.9	757.3	28.61	27.473	
5,300.0	5,240.2	5,287.4	5,251.7	16.4	13.8	-114.45	-624.0	-559.0	791.1	761.9	29.18	27.112	
5,400.0	5,339.0	5,387.3	5,350.8	16.7	14.1	-114.61	-625.5	-571.2	796.3	766.5	29.75	26.767	
5,500.0	5,437.7	5,487.1	5,449.8	17.0	14.4	-114.76	-627.0	-583.5	801.5	771.1	30.32	26.435	
5,600.0	5,536.4	5,587.0	5,548.9	17.4	14.7	-114.92	-628.5	-595.7	806.7	775.8	30.89	26.116	
5,700.0	5,635.1	5,686.8	5,648.0	17.7	15.0	-115.07	-629.9	-608.0	811.9	780.4	31.46	25.809	
5,800.0	5,733.9	5,786.6	5,747.1	18.0	15.2	-115.22	-631.4	-620.3	817.1	785.1	32.03	25.514	
5,900.0	5,832.6	5,886.5	5,846.1	18.4	15.5	-115.37	-632.9	-632.5	822.3	789.7	32.59	25.229	
6,000.0	5,931.3	5,986.3	5,945.2	18.7	15.8	-115.52	-634.4	-644.8	827.5	794.4	33.16	24.955	
6,100.0	6,030.0	6,086.2	6,044.3	19.0	16.1	-115.66	-635.9	-657.1	832.8	799.0	33.73	24.691	
6,200.0	6,128.8	6,186.0	6,143.4	19.4	16.4	-115.81	-637.4	-669.3	838.0	803.7	34.29	24.436	
6,300.0	6,227.5	6,285.8	6,242.4	19.7	16.6	-115.95	-638.9	-681.6	843.2	808.4	34.86	24.189	
6,400.0	6,326.2	6,385.7	6,341.5	20.0	16.9	-116.09	-640.4	-693.9	848.5	813.1	35.43	23.951	
6,500.0	6,425.0	7,903.0	7,269.0	20.3	24.1	174.63	182.2	-816.0	852.0	822.5	29.51	28.874	
6,600.0	6,523.7	7,906.2	7,269.0	20.7	24.2	173.90	185.4	-816.0	756.9	727.0	29.89	25.325	
6,700.0	6,622.4	7,909.3	7,269.0	21.0	24.2	173.17	188.6	-816.0	663.2	632.9	30.27	21.907	
6,800.0	6,721.1	7,912.5	7,269.0	21.3	24.2	172.44	191.7	-816.0	571.6	541.0	30.67	18.640	
6,900.0	6,819.9	7,915.7	7,269.0	21.7	24.3	171.70	194.9	-816.1	483.4	452.3	31.07	15.560	
7,000.0	6,918.4	7,911.5	7,269.0	22.0	24.2	-150.72	190.7	-816.0	400.9	366.5	34.44	11.639	
7,100.0	7,014.7	7,890.1	7,269.0	22.2	24.0	-133.46	169.3	-815.9	329.9	294.6	35.31	9.343	
7,200.0	7,105.8	7,852.1	7,269.0	22.5	23.6	-122.97	131.3	-815.5	278.2	244.4	33.80	8.232	
7,300.0	7,189.0	7,798.6	7,269.0	22.7	23.1	-111.21	77.9	-815.1	252.5	221.2	31.30	8.068	SF
7,348.5	7,225.7	7,767.6	7,269.0	22.8	22.8	-104.69	46.8	-814.8	249.7	219.5	30.24	8.258	CC, ES
7,400.0	7,261.6	7,731.3	7,269.0	22.9	22.4	-97.44	10.6	-814.5	252.4	223.1	29.36	8.598	
7,500.0	7,321.6	7,652.2	7,269.0	23.2	21.7	-83.86	-68.5	-813.8	268.5	240.2	28.31	9.487	
7,600.0	7,367.1	7,579.6	7,265.0	23.6	21.2	-73.54	-141.0	-812.7	291.6	264.1	27.57	10.576	
7,700.0	7,396.7	7,510.5	7,252.8	24.0	20.7	-65.26	-209.0	-810.5	318.4	291.8	26.56	11.989	
7,800.0	7,409.5	7,450.0	7,235.6	24.6	20.3	-59.17	-266.8	-807.9	345.8	320.4	25.48	13.573	
7,900.0	7,410.0	7,379.4	7,207.9	25.2	19.9	-55.12	-331.6	-803.9	374.8	349.8	25.00	14.995	
8,000.0	7,410.0	7,321.8	7,179.6	25.9	19.6	-51.95	-381.6	-800.0	412.7	387.8	24.95	16.545	
8,100.0	7,410.0	7,270.7	7,150.5	26.7	19.4	-49.02	-423.4	-796.0	459.4	434.4	25.02	18.364	
8,200.0	7,410.0	7,225.8	7,121.9	27.7	19.2	-46.45	-457.7	-792.2	514.0	488.8	25.20	20.399	
8,300.0	7,410.0	7,186.5	7,094.8	28.7	19.1	-44.23	-485.9	-788.5	575.4	549.9	25.47	22.588	
8,400.0	7,410.0	7,150.0	7,067.9	29.7	18.9	-42.24	-510.4	-785.0	642.6	616.8	25.79	24.914	
8,500.0	7,410.0	7,122.0	7,046.3	30.8	18.9	-40.78	-527.9	-782.2	714.5	688.2	26.26	27.208	
8,600.0	7,410.0	7,100.0	7,028.7	32.0	18.8	-39.66	-540.9	-779.9	790.4	763.6	26.82	29.466	
8,700.0	7,410.0	7,072.2	7,005.8	33.3	18.7	-38.30	-556.4	-776.9	869.5	842.2	27.27	31.885	
8,800.0	7,410.0	7,050.0	6,987.0	34.5	18.7	-37.26	-567.9	-774.5	951.3	923.5	27.80	34.218	
8,900.0	7,410.0	7,033.1	6,972.4	35.9	18.6	-36.50	-576.2	-772.6	1,035.4	1,007.0	28.43	36.423	
9,000.0	7,410.0	7,016.6	6,957.9	37.2	18.6	-35.77	-583.9	-770.7	1,121.4	1,092.3	29.05	38.605	
9,100.0	7,410.0	7,000.0	6,943.1	38.6	18.5	-35.06	-591.2	-768.8	1,208.9	1,179.2	29.65	40.772	

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Grant Elmquist 2B-14H-C268
Project:	DJ Wattenberg	**TVD Reference:**	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	**MD Reference:**	KB @ 4894.0ft
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Grant Elmquist 2B-14H-C268	**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 S14-T2N-R68W (Grant Elmquist/Salisbury) - Grant Salisbury 2D-14H-C268 - Hz - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	177.11	-553.7	28.0	554.4				
100.0	100.0	100.0	100.0	0.2	0.2	177.11	-553.7	28.0	554.4	554.1	0.30	1,825.600	
200.0	200.0	200.0	200.0	0.3	0.3	177.11	-553.7	28.0	554.4	553.8	0.65	849.344	
300.0	300.0	300.0	300.0	0.5	0.5	177.11	-553.7	28.0	554.4	553.4	1.00	553.405	CC, ES
400.0	400.0	400.0	400.0	0.7	0.7	-104.06	-553.7	28.0	554.8	553.5	1.35	409.955	
500.0	499.8	497.2	497.2	0.9	0.8	-104.37	-554.0	26.3	556.4	554.7	1.72	324.363	
600.0	599.5	594.5	594.3	1.1	1.0	-104.65	-555.0	21.5	559.3	557.1	2.12	264.414	
700.0	698.7	693.9	693.5	1.3	1.2	-105.04	-556.5	14.4	563.4	560.8	2.56	219.812	
800.0	797.5	793.5	792.8	1.6	1.4	-105.75	-557.9	7.3	568.4	565.3	3.05	186.475	
900.0	896.2	893.0	892.0	1.9	1.6	-106.55	-559.4	0.1	573.6	570.1	3.55	161.735	
1,000.0	995.0	992.5	991.3	2.3	1.8	-107.34	-560.9	-7.0	579.0	575.0	4.05	142.854	
1,100.0	1,093.7	1,092.1	1,090.6	2.6	2.1	-108.12	-562.3	-14.2	584.5	579.9	4.56	128.071	
1,200.0	1,192.4	1,191.6	1,189.9	2.9	2.3	-108.88	-563.8	-21.3	590.1	585.0	5.08	116.232	
1,300.0	1,291.2	1,291.1	1,289.1	3.2	2.5	-109.62	-565.2	-28.4	595.8	590.2	5.59	106.567	
1,400.0	1,389.9	1,390.7	1,388.4	3.5	2.7	-110.36	-566.7	-35.6	601.6	595.5	6.10	98.544	
1,500.0	1,488.6	1,490.2	1,487.7	3.9	2.9	-111.07	-568.1	-42.7	607.5	600.9	6.62	91.789	
1,600.0	1,587.3	1,589.8	1,586.9	4.2	3.1	-111.78	-569.6	-49.9	613.5	606.3	7.13	86.031	
1,700.0	1,686.1	1,689.3	1,686.2	4.5	3.3	-112.47	-571.1	-57.0	619.6	611.9	7.64	81.070	
1,800.0	1,784.8	1,788.8	1,785.5	4.8	3.5	-113.15	-572.5	-64.1	625.7	617.6	8.15	76.756	
1,900.0	1,883.5	1,888.4	1,884.7	5.2	3.8	-113.81	-574.0	-71.3	632.0	623.3	8.66	72.974	
2,000.0	1,982.2	1,987.9	1,984.0	5.5	4.0	-114.46	-575.4	-78.4	638.3	629.1	9.17	69.634	
2,100.0	2,081.0	2,087.4	2,083.3	5.8	4.2	-115.10	-576.9	-85.6	644.7	635.1	9.67	66.665	
2,200.0	2,179.7	2,187.0	2,182.6	6.2	4.4	-115.73	-578.4	-92.7	651.2	641.0	10.17	64.011	
2,300.0	2,278.4	2,286.5	2,281.8	6.5	4.6	-116.34	-579.8	-99.8	657.8	647.1	10.67	61.626	
2,400.0	2,377.1	2,386.1	2,381.1	6.8	4.8	-116.94	-581.3	-107.0	664.4	653.3	11.17	59.472	
2,500.0	2,475.9	2,485.6	2,480.4	7.1	5.0	-117.53	-582.7	-114.1	671.1	659.5	11.67	57.518	
2,600.0	2,574.6	2,585.1	2,579.6	7.5	5.3	-118.11	-584.2	-121.2	677.9	665.8	12.16	55.740	
2,700.0	2,673.3	2,684.7	2,678.9	7.8	5.5	-118.67	-585.6	-128.4	684.8	672.1	12.65	54.114	
2,800.0	2,772.1	2,784.2	2,778.2	8.1	5.7	-119.23	-587.1	-135.5	691.7	678.6	13.14	52.624	
2,900.0	2,870.8	2,883.7	2,877.4	8.5	5.9	-119.77	-588.6	-142.7	698.7	685.1	13.63	51.254	
3,000.0	2,969.5	2,983.3	2,976.7	8.8	6.1	-120.31	-590.0	-149.8	705.7	691.6	14.12	49.991	
3,100.0	3,068.2	3,082.8	3,076.0	9.1	6.3	-120.83	-591.5	-156.9	712.8	698.2	14.60	48.822	
3,200.0	3,167.0	3,182.4	3,175.3	9.4	6.5	-121.34	-592.9	-164.1	720.0	704.9	15.08	47.739	
3,300.0	3,265.7	3,281.9	3,274.5	9.8	6.8	-121.84	-594.4	-171.2	727.2	711.7	15.56	46.733	
3,400.0	3,364.4	3,381.4	3,373.8	10.1	7.0	-122.33	-595.9	-178.4	734.5	718.5	16.04	45.796	
3,500.0	3,463.1	3,481.0	3,473.1	10.4	7.2	-122.82	-597.3	-185.5	741.8	725.3	16.51	44.923	
3,600.0	3,561.9	3,580.5	3,572.3	10.8	7.4	-123.29	-598.8	-192.6	749.2	732.2	16.99	44.106	
3,700.0	3,660.6	3,680.0	3,671.6	11.1	7.6	-123.75	-600.2	-199.8	756.6	739.2	17.46	43.341	
3,800.0	3,759.3	3,779.6	3,770.9	11.4	7.8	-124.21	-601.7	-206.9	764.1	746.2	17.93	42.624	
3,900.0	3,858.1	3,879.1	3,870.2	11.8	8.0	-124.66	-603.2	-214.1	771.6	753.2	18.39	41.950	
4,000.0	3,956.8	3,978.7	3,969.4	12.1	8.3	-125.09	-604.6	-221.2	779.2	760.3	18.86	41.316	
4,100.0	4,055.5	4,078.2	4,068.7	12.4	8.5	-125.52	-606.1	-228.3	786.8	767.5	19.32	40.719	
4,200.0	4,154.2	4,177.7	4,168.0	12.7	8.7	-125.94	-607.5	-235.5	794.5	774.7	19.78	40.156	
4,300.0	4,253.0	4,277.3	4,267.2	13.1	8.9	-126.36	-609.0	-242.6	802.2	781.9	20.24	39.624	
4,400.0	4,351.7	4,376.8	4,366.5	13.4	9.1	-126.76	-610.4	-249.8	809.9	789.2	20.70	39.121	
4,500.0	4,450.4	4,476.3	4,465.8	13.7	9.3	-127.16	-611.9	-256.9	817.7	796.5	21.16	38.645	
4,600.0	4,549.1	4,575.9	4,565.0	14.1	9.6	-127.55	-613.4	-264.0	825.5	803.9	21.61	38.193	
4,700.0	4,647.9	4,675.4	4,664.3	14.4	9.8	-127.93	-614.8	-271.2	833.4	811.3	22.07	37.764	
4,800.0	4,746.6	4,775.0	4,763.6	14.7	10.0	-128.31	-616.3	-278.3	841.2	818.7	22.52	37.358	
4,900.0	4,845.3	4,874.5	4,862.9	15.1	10.2	-128.68	-617.7	-285.5	849.2	826.2	22.97	36.971	
5,000.0	4,944.1	4,974.0	4,962.1	15.4	10.4	-129.04	-619.2	-292.6	857.1	833.7	23.42	36.602	
5,100.0	5,042.8	5,073.6	5,061.4	15.7	10.6	-129.39	-620.7	-299.7	865.1	841.3	23.86	36.252	

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

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Grant Elmquist 2B-14H-C268
Project:	DJ Wattenberg	**TVD Reference:**	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	**MD Reference:**	KB @ 4894.0ft
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Grant Elmquist 2B-14H-C268	**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 S14-T2N-R68W (Grant Elmquist/Salisbury) - Grant Salisbury 2D-14H-C268 - Hz - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
5,200.0	5,141.5	5,173.1	5,160.7	16.1	10.8	-129.74	-622.1	-306.9	873.2	848.8	24.31	35.917	
5,300.0	5,240.2	5,272.6	5,259.9	16.4	11.1	-130.08	-623.6	-314.0	881.2	856.5	24.75	35.598	
5,400.0	5,339.0	5,372.2	5,359.2	16.7	11.3	-130.42	-625.0	-321.2	889.3	864.1	25.20	35.294	
5,500.0	5,437.7	5,471.7	5,458.5	17.0	11.5	-130.75	-626.5	-328.3	897.4	871.8	25.64	35.002	
5,600.0	5,536.4	5,571.3	5,557.8	17.4	11.7	-131.07	-627.9	-335.4	905.6	879.5	26.08	34.724	
5,700.0	5,635.1	5,670.8	5,657.0	17.7	11.9	-131.39	-629.4	-342.6	913.8	887.2	26.52	34.458	
5,800.0	5,733.9	5,770.3	5,756.3	18.0	12.1	-131.70	-630.9	-349.7	922.0	895.0	26.96	34.203	
5,900.0	5,832.6	5,869.9	5,855.6	18.4	12.4	-132.01	-632.3	-356.9	930.2	902.8	27.39	33.958	
6,000.0	5,931.3	5,969.4	5,954.8	18.7	12.6	-132.31	-633.8	-364.0	938.4	910.6	27.83	33.724	
6,100.0	6,030.0	6,068.9	6,054.1	19.0	12.8	-132.61	-635.2	-371.1	946.7	918.5	28.26	33.499	
6,200.0	6,128.8	6,168.5	6,153.4	19.4	13.0	-132.90	-636.7	-378.3	955.0	926.3	28.69	33.283	
6,300.0	6,227.5	6,268.0	6,252.6	19.7	13.2	-133.19	-638.2	-385.4	963.4	934.2	29.13	33.075	
6,400.0	6,326.2	6,367.6	6,351.9	20.0	13.4	-133.47	-639.6	-392.5	971.7	942.2	29.56	32.876	
6,500.0	6,425.0	6,467.1	6,451.2	20.3	13.6	-133.74	-641.1	-399.7	980.1	950.1	29.99	32.684	
6,600.0	6,523.7	6,566.6	6,550.5	20.7	13.9	-134.02	-642.5	-406.8	988.5	958.1	30.42	32.500	
6,700.0	6,622.4	8,011.8	7,410.0	21.0	21.1	171.51	182.9	-461.3	934.1	903.2	30.88	30.255	
6,800.0	6,721.1	8,014.7	7,410.0	21.3	21.1	171.24	185.8	-461.3	861.8	830.7	31.14	27.676	
6,900.0	6,819.9	8,017.6	7,410.0	21.7	21.2	170.97	188.7	-461.3	795.6	764.2	31.41	25.332	
7,000.0	6,918.4	8,013.1	7,410.0	22.0	21.1	-145.28	184.2	-461.3	737.1	704.5	32.61	22.604	
7,100.0	7,014.7	7,991.4	7,410.0	22.2	20.9	-126.18	162.6	-461.5	689.1	656.3	32.87	20.967	
7,200.0	7,105.8	7,953.2	7,410.0	22.5	20.4	-117.90	124.3	-461.8	654.0	621.8	32.18	20.325	SF
7,300.0	7,189.0	7,899.5	7,410.0	22.7	19.8	-111.69	70.6	-462.3	632.2	601.2	31.00	20.391	
7,400.0	7,261.6	7,832.0	7,410.0	22.9	19.1	-105.73	3.1	-462.9	621.8	591.9	29.91	20.787	
7,481.3	7,311.5	7,768.3	7,410.0	23.1	18.4	-101.04	-60.6	-463.5	619.8	590.5	29.31	21.148	
7,500.0	7,321.6	7,752.5	7,410.0	23.2	18.3	-100.00	-76.4	-463.6	619.9	590.7	29.19	21.236	
7,600.0	7,367.1	7,665.1	7,402.9	23.6	17.5	-94.54	-163.4	-463.8	622.4	593.6	28.86	21.570	
7,700.0	7,396.7	7,583.9	7,384.6	24.0	16.8	-89.70	-242.5	-463.2	627.9	599.1	28.81	21.794	
7,800.0	7,409.5	7,507.2	7,357.2	24.6	16.3	-85.46	-314.0	-461.9	635.5	606.7	28.83	22.046	
7,900.0	7,410.0	7,435.8	7,323.3	25.2	15.9	-82.22	-376.8	-460.0	645.6	616.5	29.12	22.169	
8,000.0	7,410.0	7,373.8	7,287.8	25.9	15.6	-79.14	-427.5	-457.9	662.0	632.3	29.68	22.305	
8,100.0	7,410.0	7,320.8	7,253.3	26.7	15.4	-76.23	-467.6	-455.8	686.0	655.6	30.37	22.586	
8,200.0	7,410.0	7,275.7	7,221.1	27.7	15.3	-73.60	-499.1	-453.7	718.2	687.0	31.17	23.042	
8,300.0	7,410.0	7,237.3	7,191.8	28.7	15.2	-71.28	-523.9	-451.8	758.6	726.6	32.05	23.673	
8,400.0	7,410.0	7,200.0	7,161.8	29.7	15.1	-68.99	-546.0	-449.9	806.7	773.8	32.92	24.502	
8,500.0	7,410.0	7,176.3	7,142.1	30.8	15.1	-67.53	-559.0	-448.6	861.7	827.7	33.98	25.361	
8,600.0	7,410.0	7,150.0	7,119.5	32.0	15.0	-65.90	-572.5	-447.1	922.8	887.8	34.98	26.382	
8,700.0	7,410.0	7,130.8	7,102.7	33.3	15.0	-64.71	-581.7	-445.9	989.1	953.0	36.08	27.415	
8,800.0	7,410.0	7,100.0	7,075.1	34.5	14.9	-62.83	-595.2	-444.1	1,059.9	1,023.0	36.96	28.678	
8,900.0	7,410.0	7,100.0	7,075.1	35.9	14.9	-62.83	-595.2	-444.1	1,134.3	1,095.9	38.37	29.557	
9,000.0	7,410.0	7,081.3	7,058.0	37.2	14.9	-61.70	-602.6	-442.9	1,211.9	1,172.4	39.44	30.723	

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Grant Elmquist 2B-14H-C268
Project:	DJ Wattenberg	**TVD Reference:**	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	**MD Reference:**	KB @ 4894.0ft
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Grant Elmquist 2B-14H-C268	**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 S14-T2N-R68W (Grant Elmquist/Salisbury) - Grant Salisbury 2E-14H-C268 - Hz - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	175.96	-553.7	39.1	555.1				
100.0	100.0	100.0	100.0	0.2	0.2	175.96	-553.7	39.1	555.1	554.8	0.30	1,827.827	
200.0	200.0	200.0	200.0	0.3	0.3	175.96	-553.7	39.1	555.1	554.4	0.65	850.380	
300.0	300.0	300.0	300.0	0.5	0.5	175.96	-553.7	39.1	555.1	554.1	1.00	554.080	CC, ES
400.0	400.0	400.0	400.0	0.7	0.7	-105.21	-553.7	39.1	555.5	554.2	1.35	410.489	
500.0	499.8	499.8	499.8	0.9	0.8	-105.70	-553.7	39.1	556.9	555.2	1.72	324.263	
600.0	599.5	599.5	599.5	1.1	1.0	-106.51	-553.7	39.1	559.4	557.3	2.11	265.593	
700.0	698.7	698.7	698.7	1.3	1.2	-107.62	-553.7	39.1	563.0	560.4	2.53	222.624	
800.0	797.5	797.5	797.5	1.6	1.4	-109.03	-553.7	39.1	567.8	564.9	2.98	190.596	
900.0	896.2	896.2	896.2	1.9	1.5	-110.52	-553.7	39.1	573.3	569.8	3.44	166.762	
1,000.0	995.0	995.0	995.0	2.3	1.7	-111.97	-553.7	39.1	579.1	575.2	3.90	148.533	
1,100.0	1,093.7	1,093.7	1,093.7	2.6	1.9	-113.40	-553.7	39.1	585.3	581.0	4.36	134.248	
1,200.0	1,192.4	1,192.4	1,192.4	2.9	2.1	-114.80	-553.7	39.1	591.9	587.1	4.82	122.818	
1,300.0	1,291.2	1,291.2	1,291.2	3.2	2.2	-116.17	-553.7	39.1	598.8	593.5	5.28	113.504	
1,400.0	1,389.9	1,389.9	1,389.9	3.5	2.4	-117.50	-553.7	39.1	606.0	600.3	5.73	105.798	
1,500.0	1,488.6	1,488.6	1,488.6	3.9	2.6	-118.81	-553.7	39.1	613.6	607.5	6.18	99.338	
1,600.0	1,587.3	1,587.3	1,587.3	4.2	2.7	-120.08	-553.7	39.1	621.5	614.9	6.62	93.862	
1,700.0	1,686.1	1,686.1	1,686.1	4.5	2.9	-121.32	-553.7	39.1	629.7	622.7	7.06	89.174	
1,800.0	1,784.8	1,784.8	1,784.8	4.8	3.1	-122.53	-553.7	39.1	638.2	630.7	7.50	85.127	
1,900.0	1,883.5	1,883.5	1,883.5	5.2	3.3	-123.71	-553.7	39.1	647.0	639.1	7.93	81.606	
2,000.0	1,982.2	1,982.2	1,982.2	5.5	3.4	-124.85	-553.7	39.1	656.0	647.7	8.35	78.524	
2,100.0	2,081.0	2,081.0	2,081.0	5.8	3.6	-125.97	-553.7	39.1	665.3	656.5	8.78	75.810	
2,200.0	2,179.7	2,179.7	2,179.7	6.2	3.8	-127.05	-553.7	39.1	674.9	665.7	9.19	73.408	
2,300.0	2,278.4	2,278.4	2,278.4	6.5	4.0	-128.11	-553.7	39.1	684.6	675.0	9.61	71.271	
2,400.0	2,377.1	2,377.1	2,377.1	6.8	4.1	-129.13	-553.7	39.1	694.6	684.6	10.01	69.362	
2,500.0	2,475.9	2,475.9	2,475.9	7.1	4.3	-130.13	-553.7	39.1	704.9	694.4	10.42	67.650	
2,600.0	2,574.6	2,574.6	2,574.6	7.5	4.5	-131.09	-553.7	39.1	715.3	704.5	10.82	66.110	
2,700.0	2,673.3	2,673.3	2,673.3	7.8	4.6	-132.03	-553.7	39.1	725.9	714.7	11.22	64.720	
2,800.0	2,772.1	2,772.1	2,772.1	8.1	4.8	-132.95	-553.7	39.1	736.7	725.1	11.61	63.461	
2,900.0	2,870.8	2,870.8	2,870.8	8.5	5.0	-133.83	-553.7	39.1	747.7	735.7	12.00	62.318	
3,000.0	2,969.5	2,969.5	2,969.5	8.8	5.2	-134.69	-553.7	39.1	758.9	746.5	12.38	61.278	
3,100.0	3,068.2	3,068.2	3,068.2	9.1	5.3	-135.53	-553.7	39.1	770.3	757.5	12.77	60.329	
3,200.0	3,167.0	3,167.0	3,167.0	9.4	5.5	-136.34	-553.7	39.1	781.7	768.6	13.15	59.461	
3,300.0	3,265.7	3,265.7	3,265.7	9.8	5.7	-137.13	-553.7	39.1	793.4	779.9	13.52	58.665	
3,400.0	3,364.4	3,364.4	3,364.4	10.1	5.8	-137.89	-553.7	39.1	805.2	791.3	13.90	57.935	
3,500.0	3,463.1	3,463.1	3,463.1	10.4	6.0	-138.64	-553.7	39.1	817.1	802.9	14.27	57.263	
3,600.0	3,561.9	3,561.9	3,561.9	10.8	6.2	-139.36	-553.7	39.1	829.2	814.6	14.64	56.644	
3,700.0	3,660.6	3,660.6	3,660.6	11.1	6.4	-140.06	-553.7	39.1	841.4	826.4	15.01	56.072	
3,800.0	3,759.3	3,759.3	3,759.3	11.4	6.5	-140.74	-553.7	39.1	853.7	838.4	15.37	55.544	
3,900.0	3,858.1	3,858.1	3,858.1	11.8	6.7	-141.41	-553.7	39.1	866.2	850.4	15.73	55.055	
4,000.0	3,956.8	3,956.8	3,956.8	12.1	6.9	-142.05	-553.7	39.1	878.7	862.6	16.09	54.602	
4,100.0	4,055.5	4,055.5	4,055.5	12.4	7.1	-142.68	-553.7	39.1	891.4	874.9	16.45	54.181	
4,200.0	4,154.2	4,154.2	4,154.2	12.7	7.2	-143.28	-553.7	39.1	904.1	887.3	16.81	53.789	
4,300.0	4,253.0	4,253.0	4,253.0	13.1	7.4	-143.88	-553.7	39.1	917.0	899.8	17.16	53.425	
4,400.0	4,351.7	4,351.7	4,351.7	13.4	7.6	-144.45	-553.7	39.1	929.9	912.4	17.52	53.085	
4,500.0	4,450.4	4,450.4	4,450.4	13.7	7.7	-145.01	-553.7	39.1	943.0	925.1	17.87	52.769	
4,600.0	4,549.1	4,549.1	4,549.1	14.1	7.9	-145.56	-553.7	39.1	956.1	937.9	18.22	52.473	
4,700.0	4,647.9	4,647.9	4,647.9	14.4	8.1	-146.08	-553.7	39.1	969.3	950.7	18.57	52.196	
4,800.0	4,746.6	4,746.6	4,746.6	14.7	8.3	-146.60	-553.7	39.1	982.6	963.7	18.92	51.937	
4,900.0	4,845.3	4,845.3	4,845.3	15.1	8.4	-147.10	-553.7	39.1	996.0	976.7	19.27	51.694	
5,000.0	4,944.1	4,944.1	4,944.1	15.4	8.6	-147.59	-553.7	39.1	1,009.4	989.8	19.61	51.466	
5,100.0	5,042.8	5,037.9	5,037.9	15.7	8.8	-148.03	-553.9	39.0	1,023.0	1,003.1	19.95	51.268	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Grant Elmquist 2B-14H-C268
Project:	DJ Wattenberg	**TVD Reference:**	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	**MD Reference:**	KB @ 4894.0ft
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Grant Elmquist 2B-14H-C268	**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 S14-T2N-R68W (Grant Elmquist/Salisbury) - Grant Salisbury 2E-14H-C268 - Hz - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
5,200.0	5,141.5	5,125.5	5,125.4	16.1	8.9	-148.31	-556.3	38.1	1,037.6	1,017.3	20.30	51.108	
5,300.0	5,240.2	5,215.1	5,214.9	16.4	9.1	-148.45	-561.2	36.2	1,053.2	1,032.6	20.67	50.955	
5,400.0	5,339.0	5,313.8	5,313.4	16.7	9.3	-148.56	-567.4	33.7	1,069.2	1,048.2	21.06	50.773	
5,500.0	5,437.7	5,412.5	5,411.9	17.0	9.4	-148.66	-573.7	31.2	1,085.2	1,063.8	21.45	50.596	
5,600.0	5,536.4	5,511.2	5,510.3	17.4	9.6	-148.75	-580.0	28.7	1,101.2	1,079.4	21.84	50.423	
5,700.0	5,635.1	5,609.9	5,608.8	17.7	9.8	-148.85	-586.3	26.3	1,117.2	1,095.0	22.23	50.254	
5,800.0	5,733.9	5,708.6	5,707.3	18.0	10.0	-148.94	-592.5	23.8	1,133.2	1,110.6	22.62	50.089	
5,900.0	5,832.6	5,807.3	5,805.7	18.4	10.2	-149.03	-598.8	21.3	1,149.2	1,126.2	23.02	49.928	
6,000.0	5,931.3	5,906.0	5,904.2	18.7	10.3	-149.12	-605.1	18.8	1,165.2	1,141.8	23.41	49.770	
6,100.0	6,030.0	6,004.7	6,002.6	19.0	10.5	-149.20	-611.4	16.3	1,181.2	1,157.4	23.81	49.617	
6,200.0	6,128.8	6,103.4	6,101.1	19.4	10.7	-149.28	-617.7	13.8	1,197.2	1,173.0	24.20	49.467	
6,300.0	6,227.5	6,202.1	6,199.6	19.7	10.9	-149.36	-623.9	11.4	1,213.2	1,188.6	24.60	49.321	
6,400.0	6,326.2	6,300.8	6,298.0	20.0	11.1	-149.44	-630.2	8.9	1,229.3	1,204.3	25.00	49.178	
6,500.0	6,425.0	7,792.2	7,203.0	20.3	19.0	170.19	181.2	-14.0	1,203.7	1,173.2	30.48	39.489	
6,600.0	6,523.7	7,795.2	7,203.0	20.7	19.0	170.03	184.3	-14.0	1,154.9	1,124.2	30.72	37.600	
6,700.0	6,622.4	7,798.3	7,203.0	21.0	19.1	169.86	187.3	-14.0	1,113.0	1,082.1	30.95	35.960	
6,800.0	6,721.1	7,801.3	7,203.0	21.3	19.1	169.69	190.3	-14.0	1,078.8	1,047.6	31.19	34.589	
6,900.0	6,819.9	7,804.3	7,203.0	21.7	19.1	169.52	193.4	-14.0	1,053.0	1,021.6	31.43	33.505	
7,000.0	6,918.4	7,800.0	7,203.0	22.0	19.1	-141.84	189.0	-14.0	1,036.4	1,004.7	31.61	32.786	SF
7,100.0	7,014.7	7,778.5	7,203.0	22.2	18.8	-118.75	167.5	-14.0	1,029.4	998.0	31.34	32.847	
7,125.0	7,038.1	7,770.4	7,203.0	22.3	18.7	-115.44	159.5	-14.0	1,029.1	997.9	31.21	32.968	
7,200.0	7,105.8	7,740.3	7,203.0	22.5	18.3	-107.78	129.4	-14.0	1,031.4	1,000.6	30.79	33.504	
7,300.0	7,189.0	7,686.7	7,203.0	22.7	17.6	-100.02	75.8	-14.0	1,040.7	1,010.5	30.20	34.458	
7,400.0	7,261.6	7,619.3	7,203.0	22.9	16.8	-93.47	8.4	-14.0	1,054.4	1,024.7	29.73	35.471	
7,500.0	7,321.6	7,540.1	7,203.0	23.2	15.9	-87.89	-70.8	-14.0	1,069.7	1,040.4	29.29	36.516	
7,600.0	7,367.1	7,472.4	7,199.7	23.6	15.1	-83.75	-138.5	-13.9	1,084.5	1,055.5	29.03	37.355	
7,700.0	7,396.7	7,407.8	7,189.2	24.0	14.5	-80.42	-202.2	-13.6	1,098.3	1,069.6	28.77	38.176	
7,800.0	7,409.5	7,350.0	7,173.8	24.6	14.0	-77.93	-257.8	-13.2	1,110.3	1,081.7	28.54	38.908	
7,900.0	7,410.0	7,283.7	7,149.4	25.2	13.5	-76.44	-319.4	-12.6	1,121.5	1,092.7	28.77	38.984	
8,000.0	7,410.0	7,228.3	7,123.5	25.9	13.1	-75.17	-368.4	-12.0	1,136.6	1,107.2	29.39	38.667	
8,100.0	7,410.0	7,178.5	7,096.4	26.7	12.9	-73.85	-410.2	-11.3	1,156.2	1,126.0	30.17	38.318	
8,200.0	7,410.0	7,134.1	7,069.3	27.7	12.7	-72.56	-445.2	-10.6	1,180.7	1,149.7	31.07	37.997	
8,300.0	7,410.0	7,100.0	7,046.6	28.7	12.5	-71.49	-470.7	-10.0	1,210.4	1,178.3	32.11	37.700	
8,400.0	7,410.0	7,050.0	7,010.7	29.7	12.4	-69.82	-505.5	-9.1	1,245.4	1,212.3	33.05	37.686	

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Grant Elmquist 2B-14H-C268
Project:	DJ Wattenberg	**TVD Reference:**	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	**MD Reference:**	KB @ 4894.0ft
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Grant Elmquist 2B-14H-C268	**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 S14-T2N-R68W (Grant Elmquist/Salisbury) - Grant Salisbury 2F-14H-C268 - Hz - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	175.09	-553.7	47.5	555.7				
100.0	100.0	100.0	100.0	0.2	0.2	175.09	-553.7	47.5	555.7	555.4	0.30	1,829.981	
200.0	200.0	200.0	200.0	0.3	0.3	175.09	-553.7	47.5	555.7	555.1	0.65	851.382	
300.0	300.0	300.0	300.0	0.5	0.5	175.09	-553.7	47.5	555.7	554.7	1.00	554.733	CC, ES
400.0	400.0	400.0	400.0	0.7	0.7	-106.07	-553.7	47.5	556.2	554.9	1.35	410.999	
500.0	499.8	499.8	499.8	0.9	0.8	-106.56	-553.7	47.5	557.7	556.0	1.72	324.735	
600.0	599.5	599.5	599.5	1.1	1.0	-107.36	-553.7	47.5	560.2	558.1	2.11	266.082	
700.0	698.7	690.4	690.4	1.3	1.2	-108.48	-554.2	48.9	564.7	562.2	2.51	224.640	
800.0	797.5	784.4	784.3	1.6	1.4	-110.13	-555.6	52.7	572.0	569.0	2.96	193.358	
900.0	896.2	882.3	882.1	1.9	1.5	-111.97	-557.2	56.9	580.1	576.7	3.42	169.760	
1,000.0	995.0	980.2	979.9	2.3	1.7	-113.75	-558.7	61.2	588.9	585.0	3.88	151.818	
1,100.0	1,093.7	1,078.1	1,077.7	2.6	1.9	-115.48	-560.3	65.5	598.2	593.9	4.34	137.859	
1,200.0	1,192.4	1,176.0	1,175.5	2.9	2.1	-117.16	-561.9	69.7	608.1	603.3	4.80	126.773	
1,300.0	1,291.2	1,273.9	1,273.3	3.2	2.3	-118.79	-563.4	74.0	618.5	613.2	5.25	117.815	
1,400.0	1,389.9	1,371.8	1,371.1	3.5	2.4	-120.36	-565.0	78.2	629.4	623.7	5.70	110.465	
1,500.0	1,488.6	1,469.7	1,468.8	3.9	2.6	-121.88	-566.6	82.5	640.7	634.6	6.14	104.356	
1,600.0	1,587.3	1,567.6	1,566.6	4.2	2.8	-123.35	-568.1	86.8	652.5	645.9	6.58	99.223	
1,700.0	1,686.1	1,665.5	1,664.4	4.5	3.0	-124.76	-569.7	91.0	664.7	657.7	7.01	94.869	
1,800.0	1,784.8	1,763.4	1,762.2	4.8	3.2	-126.13	-571.3	95.3	677.3	669.9	7.43	91.143	
1,900.0	1,883.5	1,861.3	1,860.0	5.2	3.4	-127.44	-572.8	99.6	690.3	682.5	7.85	87.932	
2,000.0	1,982.2	1,959.1	1,957.8	5.5	3.6	-128.71	-574.4	103.8	703.6	695.4	8.26	85.147	
2,100.0	2,081.0	2,057.0	2,055.6	5.8	3.8	-129.93	-576.0	108.1	717.3	708.6	8.67	82.717	
2,200.0	2,179.7	2,154.9	2,153.4	6.2	3.9	-131.11	-577.5	112.4	731.3	722.2	9.07	80.586	
2,300.0	2,278.4	2,252.8	2,251.1	6.5	4.1	-132.24	-579.1	116.6	745.6	736.1	9.47	78.709	
2,400.0	2,377.1	2,350.7	2,348.9	6.8	4.3	-133.33	-580.7	120.9	760.1	750.3	9.87	77.047	
2,500.0	2,475.9	2,448.6	2,446.7	7.1	4.5	-134.38	-582.2	125.1	775.0	764.7	10.25	75.571	
2,600.0	2,574.6	2,546.5	2,544.5	7.5	4.7	-135.39	-583.8	129.4	790.0	779.4	10.64	74.256	
2,700.0	2,673.3	2,644.4	2,642.3	7.8	4.9	-136.36	-585.4	133.7	805.3	794.3	11.02	73.079	
2,800.0	2,772.1	2,742.3	2,740.1	8.1	5.1	-137.30	-586.9	137.9	820.9	809.5	11.40	72.024	
2,900.0	2,870.8	2,840.2	2,837.9	8.5	5.3	-138.20	-588.5	142.2	836.6	824.9	11.77	71.075	
3,000.0	2,969.5	2,938.1	2,935.6	8.8	5.4	-139.07	-590.1	146.5	852.6	840.4	12.14	70.218	
3,100.0	3,068.2	3,036.0	3,033.4	9.1	5.6	-139.91	-591.6	150.7	868.7	856.2	12.51	69.444	
3,200.0	3,167.0	3,133.9	3,131.2	9.4	5.8	-140.72	-593.2	155.0	885.0	872.1	12.87	68.743	
3,300.0	3,265.7	3,231.7	3,229.0	9.8	6.0	-141.50	-594.8	159.3	901.5	888.2	13.24	68.106	
3,400.0	3,364.4	3,329.6	3,326.8	10.1	6.2	-142.25	-596.3	163.5	918.1	904.5	13.60	67.526	
3,500.0	3,463.1	3,427.5	3,424.6	10.4	6.4	-142.98	-597.9	167.8	934.9	920.9	13.95	66.998	
3,600.0	3,561.9	3,525.4	3,522.4	10.8	6.6	-143.68	-599.5	172.0	951.8	937.5	14.31	66.515	
3,700.0	3,660.6	3,623.3	3,620.2	11.1	6.8	-144.35	-601.0	176.3	968.9	954.2	14.66	66.074	
3,800.0	3,759.3	3,721.2	3,717.9	11.4	6.9	-145.00	-602.6	180.6	986.1	971.1	15.02	65.669	
3,900.0	3,858.1	3,819.1	3,815.7	11.8	7.1	-145.63	-604.2	184.8	1,003.4	988.0	15.37	65.298	
4,000.0	3,956.8	3,917.0	3,913.5	12.1	7.3	-146.24	-605.7	189.1	1,020.8	1,005.1	15.72	64.956	
4,100.0	4,055.5	4,014.9	4,011.3	12.4	7.5	-146.83	-607.3	193.4	1,038.3	1,022.3	16.06	64.642	
4,200.0	4,154.2	4,112.8	4,109.1	12.7	7.7	-147.40	-608.9	197.6	1,056.0	1,039.6	16.41	64.352	
4,300.0	4,253.0	4,210.7	4,206.9	13.1	7.9	-147.95	-610.4	201.9	1,073.7	1,057.0	16.76	64.084	
4,400.0	4,351.7	4,308.6	4,304.7	13.4	8.1	-148.48	-612.0	206.2	1,091.6	1,074.5	17.10	63.836	
4,500.0	4,450.4	4,406.4	4,402.4	13.7	8.3	-149.00	-613.6	210.4	1,109.5	1,092.0	17.44	63.607	
4,600.0	4,549.1	4,504.3	4,500.2	14.1	8.4	-149.50	-615.1	214.7	1,127.5	1,109.7	17.79	63.395	
4,700.0	4,647.9	4,602.2	4,598.0	14.4	8.6	-149.98	-616.7	219.0	1,145.6	1,127.4	18.13	63.198	
4,800.0	4,746.6	4,700.1	4,695.8	14.7	8.8	-150.45	-618.3	223.2	1,163.7	1,145.3	18.47	63.015	
4,900.0	4,845.3	4,798.0	4,793.6	15.1	9.0	-150.91	-619.8	227.5	1,182.0	1,163.2	18.81	62.845	
5,000.0	4,944.1	4,895.9	4,891.4	15.4	9.2	-151.35	-621.4	231.7	1,200.3	1,181.1	19.15	62.686	
5,100.0	5,042.8	4,993.8	4,989.2	15.7	9.4	-151.78	-622.9	236.0	1,218.7	1,199.2	19.49	62.538	

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

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Grant Elmquist 2B-14H-C268
Project:	DJ Wattenberg	**TVD Reference:**	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	**MD Reference:**	KB @ 4894.0ft
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Grant Elmquist 2B-14H-C268	**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 S14-T2N-R68W (Grant Elmquist/Salisbury) - Grant Salisbury 2F-14H-C268 - Hz - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
5,200.0	5,141.5	5,091.7	5,087.0	16.1	9.6	-152.19	-624.5	240.3	1,237.1	1,217.3	19.83	62.400	
5,300.0	5,240.2	5,189.6	5,184.7	16.4	9.8	-152.59	-626.1	244.5	1,255.6	1,235.4	20.16	62.272	
5,400.0	5,339.0	5,287.5	5,282.5	16.7	10.0	-152.99	-627.6	248.8	1,274.2	1,253.7	20.50	62.151 SF	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Grant Elmquist 2B-14H-C268
Project:	DJ Wattenberg	**TVD Reference:**	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	**MD Reference:**	KB @ 4894.0ft
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Grant Elmquist 2B-14H-C268	**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 S14-T2N-R68W (Grant Elmquist/Salisbury) - HSR-BEAR 13-14A (EXISTING) - EXISTING - SURVEYS

Offset Site Error: 0.0 ft

Survey Program: 547-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
10,300.0	7,410.0	7,689.0	7,434.9	56.9	23.0	-89.79	-4,028.8	-838.0	1,208.8	1,133.3	75.50	16.011	
10,400.0	7,410.0	7,688.8	7,434.7	58.5	23.0	-89.75	-4,028.8	-838.0	1,112.1	1,034.9	77.20	14.405	
10,500.0	7,410.0	7,688.5	7,434.5	60.1	23.0	-89.70	-4,028.8	-838.0	1,016.0	937.1	78.91	12.876	
10,600.0	7,410.0	7,688.3	7,434.2	61.7	23.0	-89.65	-4,028.8	-838.0	920.7	840.1	80.62	11.421	
10,700.0	7,410.0	7,688.1	7,434.0	63.3	23.0	-89.61	-4,028.8	-838.0	826.6	744.3	82.33	10.040	
10,800.0	7,410.0	7,687.8	7,433.7	65.0	23.0	-89.56	-4,028.8	-838.0	734.1	650.0	84.04	8.734	
10,900.0	7,410.0	7,687.6	7,433.5	66.6	23.0	-89.52	-4,028.8	-838.0	643.7	558.0	85.76	7.506	
11,000.0	7,410.0	7,687.3	7,433.3	68.3	23.0	-89.47	-4,028.8	-838.0	556.7	469.2	87.48	6.364	
11,100.0	7,410.0	7,687.1	7,433.0	69.9	23.0	-89.42	-4,028.8	-838.0	474.8	385.6	89.20	5.323	
11,200.0	7,410.0	7,686.9	7,432.8	71.6	23.0	-89.38	-4,028.8	-838.0	401.2	310.3	90.92	4.412	
11,300.0	7,410.0	7,686.6	7,432.5	73.2	23.0	-89.33	-4,028.8	-838.0	341.3	248.6	92.64	3.684	
11,400.0	7,410.0	7,686.4	7,432.3	74.9	23.0	-89.28	-4,028.8	-838.0	303.3	209.0	94.37	3.214	
11,472.4	7,410.0	7,686.2	7,432.1	76.1	23.0	-89.25	-4,028.8	-838.0	294.6	198.9	95.62	3.081	CC, ES
11,500.0	7,410.0	7,686.1	7,432.1	76.6	23.0	-89.23	-4,028.8	-838.0	295.9	199.8	96.09	3.079	SF
11,600.0	7,410.0	7,685.9	7,431.8	78.2	23.0	-89.19	-4,028.8	-838.0	321.0	223.2	97.82	3.282	
11,700.0	7,410.0	7,685.6	7,431.6	79.9	23.0	-89.14	-4,028.8	-838.0	372.3	272.7	99.55	3.740	
11,800.0	7,410.0	7,685.4	7,431.3	81.6	23.0	-89.09	-4,028.8	-838.0	440.6	339.3	101.28	4.350	
11,900.0	7,410.0	7,685.2	7,431.1	83.3	23.0	-89.05	-4,028.8	-838.0	519.3	416.3	103.00	5.041	
12,000.0	7,410.0	7,684.9	7,430.8	85.0	23.0	-89.00	-4,028.8	-838.0	604.3	499.6	104.74	5.770	
12,100.0	7,410.0	7,684.7	7,430.6	86.7	23.0	-88.95	-4,028.8	-838.0	693.3	586.9	106.47	6.512	
12,200.0	7,410.0	7,684.4	7,430.4	88.4	23.0	-88.90	-4,028.8	-838.0	785.0	676.8	108.20	7.255	
12,300.0	7,410.0	7,684.2	7,430.1	90.0	23.0	-88.90	-4,028.8	-838.0	878.3	768.7	109.58	8.015	
12,400.0	7,410.0	7,684.0	7,429.9	91.7	23.0	-88.91	-4,028.8	-838.0	972.4	861.5	110.86	8.771	
12,500.0	7,410.0	7,683.8	7,429.7	93.4	23.0	-88.92	-4,028.8	-838.0	1,067.1	954.8	112.23	9.508	
12,600.0	7,410.0	7,683.6	7,429.5	95.1	23.0	-88.89	-4,028.8	-838.0	1,162.5	1,048.5	113.96	10.200	
12,700.0	7,410.0	7,683.4	7,429.3	96.8	23.0	-88.86	-4,028.8	-838.0	1,258.6	1,142.9	115.70	10.878	

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

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Grant Elmquist 2B-14H-C268
Project:	DJ Wattenberg	**TVD Reference:**	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	**MD Reference:**	KB @ 4894.0ft
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Grant Elmquist 2B-14H-C268	**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 S14-T2N-R68W (Grant Elmquist/Salisbury) - OLANDER 1 (EXISTING) - EXISTING - NO SURVEYS

Offset Site Error: 0.0 ft

Survey Program: 8035-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
9,500.0	7,410.0	7,417.0	7,417.0	44.4	12.9	-90.00	-3,013.3	-368.2	1,214.2	1,161.2	52.97	22.922	
9,600.0	7,410.0	7,417.0	7,417.0	45.9	12.9	-90.00	-3,013.3	-368.2	1,137.5	1,082.9	54.64	20.819	
9,700.0	7,410.0	7,417.0	7,417.0	47.4	12.9	-90.00	-3,013.3	-368.2	1,064.7	1,008.3	56.31	18.907	
9,800.0	7,410.0	7,417.0	7,417.0	49.0	12.9	-90.00	-3,013.3	-368.2	996.5	938.5	57.99	17.185	
9,900.0	7,410.0	7,417.0	7,417.0	50.5	12.9	-90.00	-3,013.3	-368.2	934.2	874.5	59.67	15.655	
10,000.0	7,410.0	7,417.0	7,417.0	52.1	12.9	-90.00	-3,013.3	-368.2	878.8	817.4	61.36	14.321	
10,100.0	7,410.0	7,417.0	7,417.0	53.7	12.9	-90.00	-3,013.3	-368.2	831.8	768.7	63.06	13.191	
10,200.0	7,410.0	7,417.0	7,417.0	55.3	12.9	-90.00	-3,013.3	-368.2	794.7	729.9	64.75	12.272	
10,300.0	7,410.0	7,417.0	7,417.0	56.9	12.9	-90.00	-3,013.3	-368.2	768.8	702.4	66.46	11.569	
10,400.0	7,410.0	7,417.0	7,417.0	58.5	12.9	-90.00	-3,013.3	-368.2	755.4	687.3	68.16	11.083	
10,452.0	7,410.0	7,417.0	7,417.0	59.3	12.9	-90.00	-3,013.3	-368.2	753.6	684.6	69.05	10.915	CC, ES
10,500.0	7,410.0	7,417.0	7,417.0	60.1	12.9	-90.00	-3,013.3	-368.2	755.2	685.3	69.87	10.808	
10,600.0	7,410.0	7,417.0	7,417.0	61.7	12.9	-90.00	-3,013.3	-368.2	768.0	696.5	71.58	10.730	SF
10,700.0	7,410.0	7,417.0	7,417.0	63.3	12.9	-90.00	-3,013.3	-368.2	793.4	720.1	73.29	10.825	
10,800.0	7,410.0	7,417.0	7,417.0	65.0	12.9	-90.00	-3,013.3	-368.2	830.1	755.1	75.01	11.067	
10,900.0	7,410.0	7,417.0	7,417.0	66.6	12.9	-90.00	-3,013.3	-368.2	876.7	800.0	76.73	11.427	
11,000.0	7,410.0	7,417.0	7,417.0	68.3	12.9	-90.00	-3,013.3	-368.2	931.8	853.4	78.44	11.879	
11,100.0	7,410.0	7,417.0	7,417.0	69.9	12.9	-90.00	-3,013.3	-368.2	993.9	913.8	80.17	12.398	
11,200.0	7,410.0	7,417.0	7,417.0	71.6	12.9	-90.00	-3,013.3	-368.2	1,061.8	979.9	81.89	12.967	
11,300.0	7,410.0	7,417.0	7,417.0	73.2	12.9	-90.00	-3,013.3	-368.2	1,134.5	1,050.9	83.61	13.568	
11,400.0	7,410.0	7,417.0	7,417.0	74.9	12.9	-90.00	-3,013.3	-368.2	1,211.1	1,125.7	85.34	14.191	

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Grant Elmquist 2B-14H-C268
Project:	DJ Wattenberg	**TVD Reference:**	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	**MD Reference:**	KB @ 4894.0ft
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Grant Elmquist 2B-14H-C268	**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 S14-T2N-R68W (Grant Elmquist/Salisbury) - OLANDER 2 (EXISTING) - EXISTING - NO SURVEYS

Offset Site Error: 0.0 ft

Survey Program: 8028-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-151.44	-387.2	-210.8	440.9				
100.0	100.0	93.0	93.0	0.2	0.2	-151.44	-387.2	-210.8	440.9	440.6	0.31	1,402.502	
200.0	200.0	193.0	193.0	0.3	0.3	-151.44	-387.2	-210.8	440.9	440.2	0.66	664.566	
300.0	300.0	293.0	293.0	0.5	0.5	-151.44	-387.2	-210.8	440.9	439.9	1.01	435.450	
400.0	400.0	393.0	393.0	0.7	0.7	-72.66	-387.2	-210.8	440.4	439.0	1.36	322.854	
500.0	499.8	492.8	492.8	0.9	0.9	-73.34	-387.2	-210.8	438.8	437.1	1.73	253.950	
600.0	599.5	592.5	592.5	1.1	1.0	-74.48	-387.2	-210.8	436.4	434.3	2.12	206.107	
700.0	698.7	691.7	691.7	1.3	1.2	-76.09	-387.2	-210.8	433.3	430.7	2.54	170.281	
800.0	797.5	790.5	790.5	1.6	1.4	-78.09	-387.2	-210.8	429.8	426.8	3.01	142.962	
900.0	896.2	889.2	889.2	1.9	1.6	-80.15	-387.2	-210.8	426.8	423.3	3.48	122.517	
1,000.0	995.0	988.0	988.0	2.3	1.7	-82.24	-387.2	-210.8	424.3	420.3	3.97	106.892	
1,100.0	1,093.7	1,086.7	1,086.7	2.6	1.9	-84.35	-387.2	-210.8	422.4	418.0	4.46	94.685	
1,200.0	1,192.4	1,185.4	1,185.4	2.9	2.1	-86.48	-387.2	-210.8	421.2	416.2	4.96	84.966	
1,300.0	1,291.2	1,284.2	1,284.2	3.2	2.2	-88.61	-387.2	-210.8	420.5	415.0	5.45	77.103	
1,364.8	1,355.1	1,348.1	1,348.1	3.4	2.4	-90.00	-387.2	-210.8	420.3	414.6	5.77	72.786	CC
1,400.0	1,389.9	1,382.9	1,382.9	3.5	2.4	-90.75	-387.2	-210.8	420.4	414.4	5.95	70.657	ES
1,500.0	1,488.6	1,481.6	1,481.6	3.9	2.6	-92.89	-387.2	-210.8	420.9	414.4	6.44	65.314	
1,600.0	1,587.3	1,580.3	1,580.3	4.2	2.8	-95.02	-387.2	-210.8	422.0	415.1	6.94	60.845	
1,700.0	1,686.1	1,679.1	1,679.1	4.5	2.9	-97.14	-387.2	-210.8	423.7	416.3	7.42	57.078	
1,800.0	1,784.8	1,777.8	1,777.8	4.8	3.1	-99.23	-387.2	-210.8	426.0	418.1	7.91	53.884	
1,900.0	1,883.5	1,876.5	1,876.5	5.2	3.3	-101.31	-387.2	-210.8	428.9	420.5	8.38	51.162	
2,000.0	1,982.2	1,975.2	1,975.2	5.5	3.4	-103.35	-387.2	-210.8	432.3	423.5	8.85	48.833	
2,100.0	2,081.0	2,074.0	2,074.0	5.8	3.6	-105.36	-387.2	-210.8	436.3	427.0	9.32	46.834	
2,200.0	2,179.7	2,172.7	2,172.7	6.2	3.8	-107.33	-387.2	-210.8	440.8	431.1	9.77	45.113	
2,300.0	2,278.4	2,271.4	2,271.4	6.5	4.0	-109.26	-387.2	-210.8	445.9	435.7	10.22	43.630	
2,400.0	2,377.1	2,370.1	2,370.1	6.8	4.1	-111.14	-387.2	-210.8	451.4	440.8	10.66	42.350	
2,500.0	2,475.9	2,468.9	2,468.9	7.1	4.3	-112.98	-387.2	-210.8	457.5	446.4	11.09	41.245	
2,600.0	2,574.6	2,567.6	2,567.6	7.5	4.5	-114.77	-387.2	-210.8	464.0	452.5	11.52	40.291	
2,700.0	2,673.3	2,666.3	2,666.3	7.8	4.7	-116.51	-387.2	-210.8	470.9	459.0	11.93	39.469	
2,800.0	2,772.1	2,765.1	2,765.1	8.1	4.8	-118.20	-387.2	-210.8	478.3	466.0	12.34	38.760	
2,900.0	2,870.8	2,863.8	2,863.8	8.5	5.0	-119.84	-387.2	-210.8	486.1	473.4	12.74	38.151	
3,000.0	2,969.5	2,962.5	2,962.5	8.8	5.2	-121.42	-387.2	-210.8	494.3	481.2	13.14	37.629	
3,100.0	3,068.2	3,061.2	3,061.2	9.1	5.3	-122.95	-387.2	-210.8	502.8	489.3	13.52	37.184	
3,200.0	3,167.0	3,160.0	3,160.0	9.4	5.5	-124.43	-387.2	-210.8	511.7	497.8	13.90	36.805	
3,300.0	3,265.7	3,258.7	3,258.7	9.8	5.7	-125.87	-387.2	-210.8	521.0	506.7	14.28	36.485	
3,400.0	3,364.4	3,357.4	3,357.4	10.1	5.9	-127.25	-387.2	-210.8	530.5	515.9	14.65	36.216	
3,500.0	3,463.1	3,456.1	3,456.1	10.4	6.0	-128.58	-387.2	-210.8	540.4	525.4	15.01	35.994	
3,600.0	3,561.9	3,554.9	3,554.9	10.8	6.2	-129.86	-387.2	-210.8	550.5	535.1	15.37	35.811	
3,700.0	3,660.6	3,653.6	3,653.6	11.1	6.4	-131.10	-387.2	-210.8	560.9	545.2	15.73	35.664	
3,800.0	3,759.3	3,752.3	3,752.3	11.4	6.5	-132.29	-387.2	-210.8	571.6	555.5	16.08	35.548	
3,900.0	3,858.1	3,851.1	3,851.1	11.8	6.7	-133.44	-387.2	-210.8	582.5	566.0	16.43	35.459	
4,000.0	3,956.8	3,949.8	3,949.8	12.1	6.9	-134.55	-387.2	-210.8	593.6	576.8	16.77	35.395	
4,100.0	4,055.5	4,048.5	4,048.5	12.4	7.1	-135.62	-387.2	-210.8	604.9	587.8	17.11	35.352	
4,200.0	4,154.2	4,147.2	4,147.2	12.7	7.2	-136.65	-387.2	-210.8	616.5	599.0	17.45	35.328	
4,300.0	4,253.0	4,246.0	4,246.0	13.1	7.4	-137.64	-387.2	-210.8	628.2	610.4	17.79	35.320	
4,400.0	4,351.7	4,344.7	4,344.7	13.4	7.6	-138.59	-387.2	-210.8	640.1	622.0	18.12	35.328	
4,500.0	4,450.4	4,443.4	4,443.4	13.7	7.8	-139.51	-387.2	-210.8	652.2	633.7	18.45	35.347	
4,600.0	4,549.1	4,542.1	4,542.1	14.1	7.9	-140.40	-387.2	-210.8	664.4	645.6	18.78	35.378	
4,700.0	4,647.9	4,640.9	4,640.9	14.4	8.1	-141.25	-387.2	-210.8	676.8	657.7	19.11	35.419	
4,800.0	4,746.6	4,739.6	4,739.6	14.7	8.3	-142.07	-387.2	-210.8	689.4	669.9	19.44	35.469	
4,900.0	4,845.3	4,838.3	4,838.3	15.1	8.4	-142.87	-387.2	-210.8	702.0	682.3	19.76	35.525	
5,000.0	4,944.1	4,937.1	4,937.1	15.4	8.6	-143.63	-387.2	-210.8	714.8	694.7	20.09	35.588	

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

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Grant Elmquist 2B-14H-C268
Project:	DJ Wattenberg	**TVD Reference:**	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	**MD Reference:**	KB @ 4894.0ft
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Grant Elmquist 2B-14H-C268	**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 S14-T2N-R68W (Grant Elmquist/Salisbury) - OLANDER 2 (EXISTING) - EXISTING - NO SURVEYS

Offset Site Error: 0.0 ft

Survey Program: 8028-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
5,100.0	5,042.8	5,035.8	5,035.8	15.7	8.8	-144.37	-387.2	-210.8	727.8	707.3	20.41	35.657	
5,200.0	5,141.5	5,134.5	5,134.5	16.1	9.0	-145.09	-387.2	-210.8	740.8	720.1	20.73	35.731	
5,300.0	5,240.2	5,233.2	5,233.2	16.4	9.1	-145.78	-387.2	-210.8	754.0	732.9	21.06	35.808	
5,400.0	5,339.0	5,332.0	5,332.0	16.7	9.3	-146.44	-387.2	-210.8	767.2	745.8	21.38	35.889	
5,500.0	5,437.7	5,430.7	5,430.7	17.0	9.5	-147.08	-387.2	-210.8	780.6	758.9	21.70	35.973	
5,600.0	5,536.4	5,529.4	5,529.4	17.4	9.7	-147.71	-387.2	-210.8	794.0	772.0	22.02	36.060	
5,700.0	5,635.1	5,628.1	5,628.1	17.7	9.8	-148.31	-387.2	-210.8	807.5	785.2	22.34	36.148	
5,800.0	5,733.9	5,726.9	5,726.9	18.0	10.0	-148.89	-387.2	-210.8	821.2	798.5	22.66	36.238	
5,900.0	5,832.6	5,825.6	5,825.6	18.4	10.2	-149.45	-387.2	-210.8	834.9	811.9	22.98	36.329	
6,000.0	5,931.3	5,924.3	5,924.3	18.7	10.3	-149.99	-387.2	-210.8	848.7	825.4	23.30	36.421	
6,100.0	6,030.0	6,023.0	6,023.0	19.0	10.5	-150.52	-387.2	-210.8	862.5	838.9	23.62	36.514	
6,200.0	6,128.8	6,121.8	6,121.8	19.4	10.7	-151.03	-387.2	-210.8	876.4	852.5	23.94	36.607	
6,300.0	6,227.5	6,220.5	6,220.5	19.7	10.9	-151.53	-387.2	-210.8	890.4	866.2	24.26	36.700	
6,400.0	6,326.2	6,319.2	6,319.2	20.0	11.0	-152.00	-387.2	-210.8	904.5	879.9	24.58	36.793	
6,500.0	6,425.0	6,418.0	6,418.0	20.3	11.2	-152.47	-387.2	-210.8	918.6	893.7	24.90	36.887	
6,600.0	6,523.7	6,516.7	6,516.7	20.7	11.4	-152.92	-387.2	-210.8	932.8	907.5	25.22	36.980	
6,700.0	6,622.4	6,615.4	6,615.4	21.0	11.5	-153.36	-387.2	-210.8	947.0	921.4	25.54	37.072	
6,800.0	6,721.1	6,714.1	6,714.1	21.3	11.7	-153.78	-387.2	-210.8	961.3	935.4	25.87	37.164	
6,900.0	6,819.9	6,812.9	6,812.9	21.7	11.9	-154.19	-387.2	-210.8	975.6	949.4	26.19	37.255	
7,000.0	6,918.4	6,911.4	6,911.4	22.0	12.1	-104.29	-387.2	-210.8	985.7	959.1	26.63	37.014	
7,100.0	7,014.7	7,007.7	7,007.7	22.2	12.2	-83.12	-387.2	-210.8	986.0	959.3	26.69	36.937	
7,200.0	7,105.8	7,098.8	7,098.8	22.5	12.4	-77.15	-387.2	-210.8	977.6	951.1	26.50	36.890	
7,300.0	7,189.0	7,182.0	7,182.0	22.7	12.5	-76.82	-387.2	-210.8	962.4	936.1	26.28	36.616	
7,400.0	7,261.6	7,254.6	7,254.6	22.9	12.7	-79.14	-387.2	-210.8	943.0	916.7	26.25	35.929	
7,500.0	7,321.6	7,314.6	7,314.6	23.2	12.8	-82.59	-387.2	-210.8	922.3	895.8	26.46	34.862	
7,600.0	7,367.1	7,360.1	7,360.1	23.6	12.8	-86.08	-387.2	-210.8	903.6	876.8	26.87	33.630	
7,700.0	7,396.7	7,389.7	7,389.7	24.0	12.9	-88.72	-387.2	-210.8	890.1	862.6	27.44	32.441	
7,800.0	7,409.5	7,402.5	7,402.5	24.6	12.9	-89.95	-387.2	-210.8	883.8	855.7	28.12	31.430	
7,819.6	7,410.2	7,403.2	7,403.2	24.7	12.9	-90.00	-387.2	-210.8	883.6	855.3	28.31	31.212	
7,900.0	7,410.0	7,403.0	7,403.0	25.2	12.9	-90.00	-387.2	-210.8	886.8	857.7	29.07	30.505	
8,000.0	7,410.0	7,403.0	7,403.0	25.9	12.9	-90.00	-387.2	-210.8	900.9	870.7	30.20	29.832	
8,100.0	7,410.0	7,403.0	7,403.0	26.7	12.9	-90.00	-387.2	-210.8	925.6	894.1	31.42	29.455	
8,200.0	7,410.0	7,403.0	7,403.0	27.7	12.9	-90.00	-387.2	-210.8	960.1	927.4	32.73	29.336 SF	
8,300.0	7,410.0	7,403.0	7,403.0	28.7	12.9	-90.00	-387.2	-210.8	1,003.4	969.3	34.10	29.429	
8,400.0	7,410.0	7,403.0	7,403.0	29.7	12.9	-90.00	-387.2	-210.8	1,054.5	1,019.0	35.52	29.688	
8,500.0	7,410.0	7,403.0	7,403.0	30.8	12.9	-90.00	-387.2	-210.8	1,112.3	1,075.3	36.99	30.072	
8,600.0	7,410.0	7,403.0	7,403.0	32.0	12.9	-90.00	-387.2	-210.8	1,175.7	1,137.2	38.49	30.546	
8,700.0	7,410.0	7,403.0	7,403.0	33.3	12.9	-90.00	-387.2	-210.8	1,243.9	1,203.9	40.02	31.081	

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Grant Elmquist 2B-14H-C268
Project:	DJ Wattenberg	**TVD Reference:**	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	**MD Reference:**	KB @ 4894.0ft
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Grant Elmquist 2B-14H-C268	**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 S14-T2N-R68W (Grant Elmquist/Salisbury) - SALISBURY 14-11 (EXISTING) - EXISTING - SURVEYS

Offset Site Error: 0.0 ft

Survey Program: 104-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
5,000.0	4,944.1	4,977.9	4,919.8	15.4	14.2	69.96	1,396.4	-903.1	1,277.3	1,252.3	24.99	51.119	
5,100.0	5,042.8	5,071.7	5,013.6	15.7	14.3	70.49	1,396.7	-905.4	1,272.5	1,247.1	25.45	49.999	
5,200.0	5,141.5	5,169.6	5,111.4	16.1	14.4	71.03	1,397.2	-908.4	1,268.2	1,242.3	25.92	48.919	
5,300.0	5,240.2	5,270.6	5,212.4	16.4	14.5	71.60	1,397.8	-911.1	1,264.0	1,237.6	26.40	47.874	
5,400.0	5,339.0	5,372.4	5,314.1	16.7	14.6	72.20	1,398.1	-913.5	1,259.6	1,232.7	26.88	46.861	
5,500.0	5,437.7	5,469.1	5,410.8	17.0	14.7	72.78	1,398.5	-915.5	1,255.4	1,228.0	27.35	45.905	
5,600.0	5,536.4	5,567.5	5,509.3	17.4	14.9	73.39	1,399.0	-917.2	1,251.4	1,223.6	27.82	44.987	
5,700.0	5,635.1	5,663.3	5,605.1	17.7	15.0	74.00	1,399.6	-918.6	1,247.7	1,219.4	28.28	44.115	
5,800.0	5,733.9	5,757.9	5,699.6	18.0	15.1	74.62	1,400.7	-919.8	1,244.5	1,215.8	28.75	43.293	
5,900.0	5,832.6	5,858.2	5,799.9	18.4	15.2	75.31	1,401.9	-920.3	1,241.6	1,212.4	29.21	42.505	
6,000.0	5,931.3	5,958.0	5,899.7	18.7	15.3	76.04	1,403.0	-919.9	1,238.8	1,209.1	29.68	41.745	
6,100.0	6,030.0	6,057.2	5,998.9	19.0	15.4	76.77	1,404.1	-919.5	1,236.1	1,206.0	30.14	41.008	
6,200.0	6,128.8	6,157.2	6,098.8	19.4	15.5	77.50	1,405.2	-919.4	1,233.6	1,203.0	30.62	40.292	
6,300.0	6,227.5	6,260.6	6,202.2	19.7	15.6	78.26	1,406.0	-919.1	1,231.0	1,199.9	31.09	39.590	
6,400.0	6,326.2	6,359.7	6,301.4	20.0	15.7	79.00	1,406.5	-918.7	1,228.4	1,196.8	31.57	38.914	
6,500.0	6,425.0	6,458.3	6,400.0	20.3	15.8	79.73	1,407.1	-918.4	1,226.0	1,193.9	32.04	38.259	
6,600.0	6,523.7	6,557.1	6,498.7	20.7	15.9	80.44	1,407.7	-918.6	1,223.8	1,191.3	32.52	37.626	
6,700.0	6,622.4	6,656.5	6,598.1	21.0	16.1	81.15	1,408.2	-919.1	1,221.8	1,188.7	33.01	37.013	
6,800.0	6,721.1	6,754.5	6,696.1	21.3	16.2	81.86	1,408.8	-919.5	1,219.9	1,186.4	33.49	36.427	
6,900.0	6,819.9	6,852.7	6,794.3	21.7	16.3	82.57	1,409.4	-919.8	1,218.4	1,184.4	33.97	35.863	
6,909.0	6,828.8	6,861.7	6,803.3	21.7	16.3	87.77	1,409.4	-919.8	1,218.3	1,184.3	34.03	35.799	CC, ES
7,000.0	6,918.4	6,952.0	6,893.7	22.0	16.4	133.23	1,410.0	-919.9	1,224.3	1,190.0	34.30	35.699	SF
7,100.0	7,014.7	7,050.6	6,992.3	22.2	16.5	156.68	1,410.5	-920.0	1,247.5	1,213.7	33.76	36.956	

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Grant Elmquist 2B-14H-C268
Project:	DJ Wattenberg	**TVD Reference:**	KB @ 4894.0ft
Reference Site:	S14-T2N-R68W (Grant Elmquist/Salisbury)	**MD Reference:**	KB @ 4894.0ft
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Grant Elmquist 2B-14H-C268	**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 KB @ 4894.0ft
Offset Depths are relative to Offset Datum
Central Meridian is -105.500000 °

Coordinates are relative to: Grant Elmquist 2B-14H-C268
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.34°