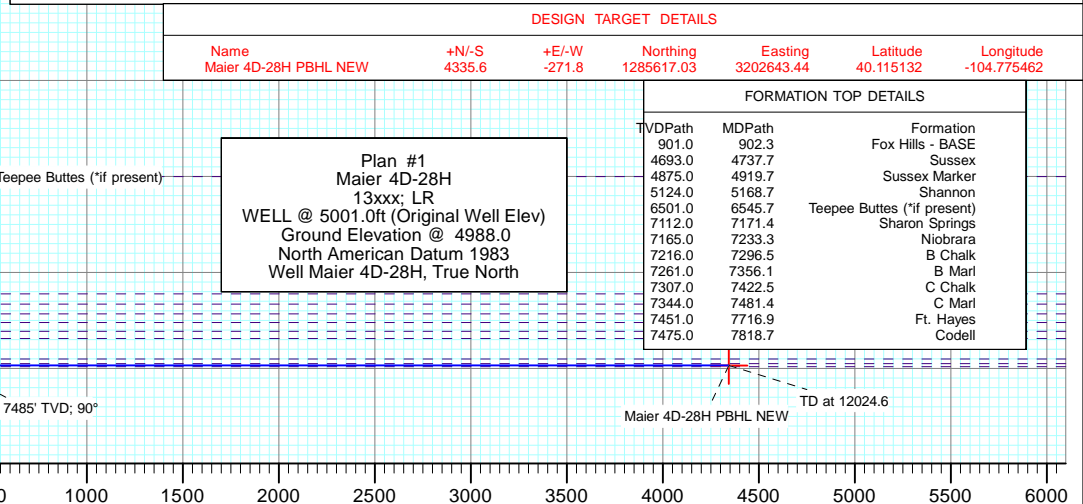
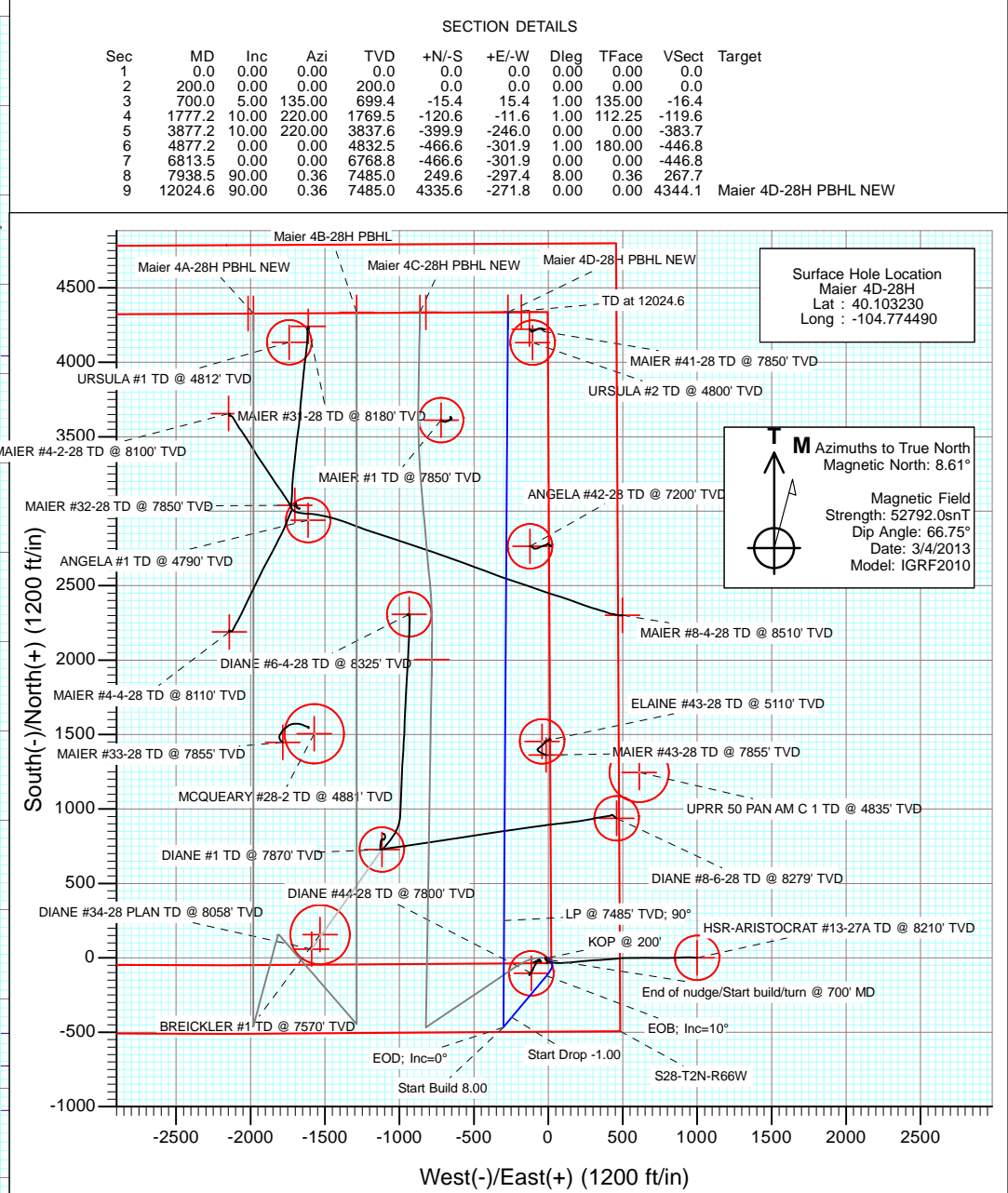
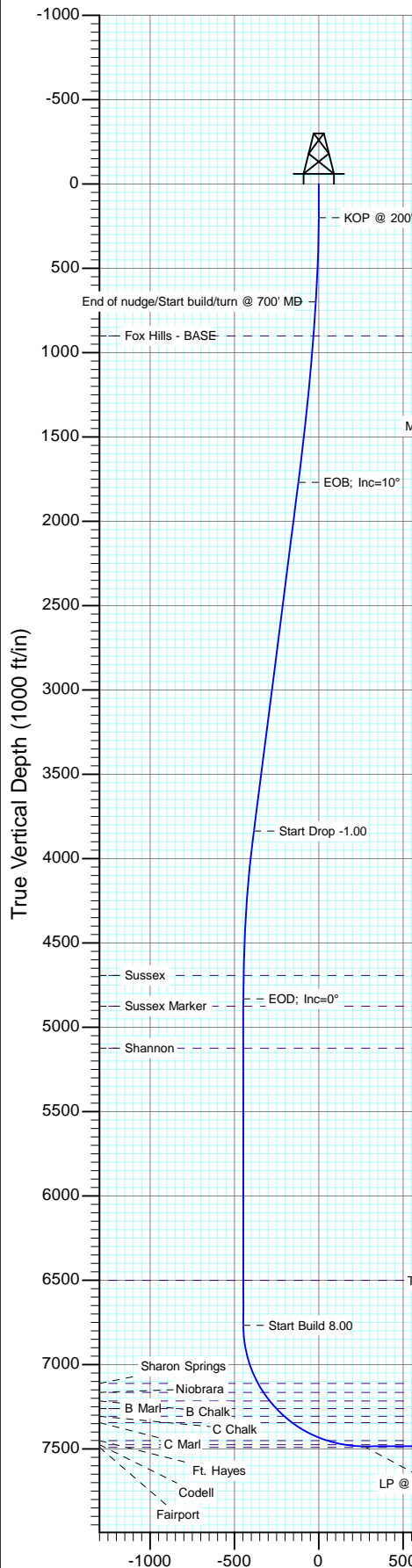




Project: DJ Wattenberg  
Site: S28-T2N-R66W (Maier)  
Well: Maier 4D-28H  
Wellbore: Hz  
Design: Plan #1



# Cathedral Energy Services

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Maier 4D-28H
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	WELL @ 5001.0ft (Original Well Elev)
<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	WELL @ 5001.0ft (Original Well Elev)
<b>Site:</b>	S28-T2N-R66W (Maier)	<b>North Reference:</b>	True
<b>Well:</b>	Maier 4D-28H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	Plan #1		

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

Site		S28-T2N-R66W (Maier)			
Site Position:		Northing:	1,281,422.02 ft	Latitude:	40.103650
From:	Lat/Long	Easting:	3,201,134.08 ft	Longitude:	-104.780980
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	0.46 °

Well	Maier 4D-28H					
Well Position	+N/-S	0.0 ft	Northing:	1,281,283.80 ft	Latitude:	40.103230
	+E/-W	0.0 ft	Easting:	3,202,950.71 ft	Longitude:	-104.774490
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,988.0 ft

<b>Wellbore</b>	Hz				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	3/4/2013	8.61	66.75	52,792

<b>Design</b>	Plan #1			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>
	0.0	0.0	0.0	356.41

<b>Plan Sections</b>										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.00	0.00	
700.0	5.00	135.00	699.4	-15.4	15.4	1.00	1.00	0.00	135.00	
1,777.2	10.00	220.00	1,769.5	-120.6	-11.6	1.00	0.46	7.89	112.25	
3,877.2	10.00	220.00	3,837.6	-399.9	-246.0	0.00	0.00	0.00	0.00	
4,877.2	0.00	0.00	4,832.5	-466.6	-301.9	1.00	-1.00	0.00	180.00	
6,813.5	0.00	0.00	6,768.8	-466.6	-301.9	0.00	0.00	0.00	0.00	
7,938.5	90.00	0.36	7,485.0	249.6	-297.4	8.00	8.00	0.00	0.36	
12,024.6	90.00	0.36	7,485.0	4,335.6	-271.8	0.00	0.00	0.00	0.00	Maier 4D-28H PBHL I

# Cathedral Energy Services

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Maier 4D-28H
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	WELL @ 5001.0ft (Original Well Elev)
<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	WELL @ 5001.0ft (Original Well Elev)
<b>Site:</b>	S28-T2N-R66W (Maier)	<b>North Reference:</b>	True
<b>Well:</b>	Maier 4D-28H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	Plan #1		

### Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	KOP @ 200'
300.0	1.00	135.00	300.0	-0.6	0.6	-0.7	1.00	1.00	
400.0	2.00	135.00	400.0	-2.5	2.5	-2.6	1.00	1.00	
500.0	3.00	135.00	499.9	-5.6	5.6	-5.9	1.00	1.00	
600.0	4.00	135.00	599.7	-9.9	9.9	-10.5	1.00	1.00	
700.0	5.00	135.00	699.4	-15.4	15.4	-16.4	1.00	1.00	End of nudge/Start build/turn @ 700' MD
800.0	4.71	146.34	799.0	-21.9	20.8	-23.2	1.00	-0.29	
900.0	4.63	158.60	898.7	-29.1	24.5	-30.6	1.00	-0.08	
902.3	4.63	158.89	901.0	-29.3	24.6	-30.8	1.00	0.02	Fox Hills - BASE
1,000.0	4.76	170.75	998.3	-36.9	26.7	-38.5	1.00	0.13	
1,100.0	5.08	181.80	1,098.0	-45.5	27.2	-47.1	1.00	0.33	
1,200.0	5.57	191.22	1,197.6	-54.6	26.1	-56.2	1.00	0.49	
1,300.0	6.18	198.97	1,297.0	-64.5	23.4	-65.8	1.00	0.61	
1,400.0	6.88	205.23	1,396.4	-75.0	19.1	-76.1	1.00	0.70	
1,500.0	7.65	210.29	1,495.6	-86.2	13.2	-86.8	1.00	0.77	
1,600.0	8.47	214.40	1,594.6	-98.0	5.7	-98.2	1.00	0.82	
1,700.0	9.32	217.79	1,693.4	-110.5	-3.4	-110.1	1.00	0.85	
1,777.2	10.00	220.00	1,769.5	-120.6	-11.6	-119.6	1.00	0.88	EOB; Inc=10°
1,800.0	10.00	220.00	1,791.9	-123.6	-14.1	-122.5	0.00	0.00	
1,900.0	10.00	220.00	1,890.4	-136.9	-25.3	-135.1	0.00	0.00	
2,000.0	10.00	220.00	1,988.9	-150.2	-36.5	-147.6	0.00	0.00	
2,100.0	10.00	220.00	2,087.4	-163.5	-47.6	-160.2	0.00	0.00	
2,200.0	10.00	220.00	2,185.9	-176.8	-58.8	-172.8	0.00	0.00	
2,300.0	10.00	220.00	2,284.3	-190.1	-69.9	-185.4	0.00	0.00	
2,400.0	10.00	220.00	2,382.8	-203.4	-81.1	-197.9	0.00	0.00	
2,500.0	10.00	220.00	2,481.3	-216.7	-92.3	-210.5	0.00	0.00	
2,600.0	10.00	220.00	2,579.8	-230.0	-103.4	-223.1	0.00	0.00	
2,700.0	10.00	220.00	2,678.3	-243.3	-114.6	-235.7	0.00	0.00	
2,800.0	10.00	220.00	2,776.7	-256.6	-125.8	-248.3	0.00	0.00	
2,900.0	10.00	220.00	2,875.2	-269.9	-136.9	-260.8	0.00	0.00	
3,000.0	10.00	220.00	2,973.7	-283.2	-148.1	-273.4	0.00	0.00	
3,100.0	10.00	220.00	3,072.2	-296.5	-159.2	-286.0	0.00	0.00	
3,200.0	10.00	220.00	3,170.7	-309.8	-170.4	-298.6	0.00	0.00	
3,300.0	10.00	220.00	3,269.2	-323.1	-181.6	-311.1	0.00	0.00	
3,400.0	10.00	220.00	3,367.6	-336.4	-192.7	-323.7	0.00	0.00	
3,500.0	10.00	220.00	3,466.1	-349.7	-203.9	-336.3	0.00	0.00	
3,600.0	10.00	220.00	3,564.6	-363.0	-215.0	-348.9	0.00	0.00	
3,700.0	10.00	220.00	3,663.1	-376.3	-226.2	-361.5	0.00	0.00	
3,800.0	10.00	220.00	3,761.6	-389.6	-237.4	-374.0	0.00	0.00	
3,877.2	10.00	220.00	3,837.6	-399.9	-246.0	-383.7	0.00	0.00	Start Drop -1.00
3,900.0	9.77	220.00	3,860.0	-402.9	-248.5	-386.6	1.00	-1.00	
4,000.0	8.77	220.00	3,958.7	-415.3	-258.9	-398.2	1.00	-1.00	
4,100.0	7.77	220.00	4,057.7	-426.3	-268.1	-408.7	1.00	-1.00	
4,200.0	6.77	220.00	4,156.9	-436.0	-276.2	-417.8	1.00	-1.00	
4,300.0	5.77	220.00	4,256.3	-444.3	-283.3	-425.7	1.00	-1.00	
4,400.0	4.77	220.00	4,355.9	-451.4	-289.2	-432.4	1.00	-1.00	
4,500.0	3.77	220.00	4,455.6	-457.1	-294.0	-437.8	1.00	-1.00	
4,600.0	2.77	220.00	4,555.4	-461.5	-297.6	-441.9	1.00	-1.00	
4,700.0	1.77	220.00	4,655.3	-464.5	-300.2	-444.8	1.00	-1.00	
4,737.7	1.40	220.00	4,693.0	-465.3	-300.8	-445.6	1.00	-1.00	Sussex

# Cathedral Energy Services

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Maier 4D-28H
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	WELL @ 5001.0ft (Original Well Elev)
<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	WELL @ 5001.0ft (Original Well Elev)
<b>Site:</b>	S28-T2N-R66W (Maier)	<b>North Reference:</b>	True
<b>Well:</b>	Maier 4D-28H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
4,800.0	0.77	220.00	4,755.3	-466.2	-301.6	-446.4	1.00	-1.00	
4,877.2	0.00	0.00	4,832.5	-466.6	-301.9	-446.8	1.00	-1.00	EOD; Inc=0°
4,900.0	0.00	0.00	4,855.3	-466.6	-301.9	-446.8	0.00	0.00	
4,919.7	0.00	0.00	4,875.0	-466.6	-301.9	-446.8	0.00	0.00	Sussex Marker
5,000.0	0.00	0.00	4,955.3	-466.6	-301.9	-446.8	0.00	0.00	
5,100.0	0.00	0.00	5,055.3	-466.6	-301.9	-446.8	0.00	0.00	
5,168.7	0.00	0.00	5,124.0	-466.6	-301.9	-446.8	0.00	0.00	Shannon
5,200.0	0.00	0.00	5,155.3	-466.6	-301.9	-446.8	0.00	0.00	
5,300.0	0.00	0.00	5,255.3	-466.6	-301.9	-446.8	0.00	0.00	
5,400.0	0.00	0.00	5,355.3	-466.6	-301.9	-446.8	0.00	0.00	
5,500.0	0.00	0.00	5,455.3	-466.6	-301.9	-446.8	0.00	0.00	
5,600.0	0.00	0.00	5,555.3	-466.6	-301.9	-446.8	0.00	0.00	
5,700.0	0.00	0.00	5,655.3	-466.6	-301.9	-446.8	0.00	0.00	
5,800.0	0.00	0.00	5,755.3	-466.6	-301.9	-446.8	0.00	0.00	
5,900.0	0.00	0.00	5,855.3	-466.6	-301.9	-446.8	0.00	0.00	
6,000.0	0.00	0.00	5,955.3	-466.6	-301.9	-446.8	0.00	0.00	
6,100.0	0.00	0.00	6,055.3	-466.6	-301.9	-446.8	0.00	0.00	
6,200.0	0.00	0.00	6,155.3	-466.6	-301.9	-446.8	0.00	0.00	
6,300.0	0.00	0.00	6,255.3	-466.6	-301.9	-446.8	0.00	0.00	
6,400.0	0.00	0.00	6,355.3	-466.6	-301.9	-446.8	0.00	0.00	
6,500.0	0.00	0.00	6,455.3	-466.6	-301.9	-446.8	0.00	0.00	
6,545.7	0.00	0.00	6,501.0	-466.6	-301.9	-446.8	0.00	0.00	Teepee Buttes (*if present)
6,600.0	0.00	0.00	6,555.3	-466.6	-301.9	-446.8	0.00	0.00	
6,700.0	0.00	0.00	6,655.3	-466.6	-301.9	-446.8	0.00	0.00	
6,800.0	0.00	0.00	6,755.3	-466.6	-301.9	-446.8	0.00	0.00	
6,813.5	0.00	0.00	6,768.8	-466.6	-301.9	-446.8	0.00	0.00	Start Build 8.00
6,900.0	6.92	0.36	6,855.1	-461.4	-301.9	-441.6	8.00	8.00	
7,000.0	14.92	0.36	6,953.2	-442.4	-301.8	-422.7	8.00	8.00	
7,100.0	22.92	0.36	7,047.7	-410.0	-301.6	-390.4	8.00	8.00	
7,171.4	28.63	0.36	7,112.0	-379.0	-301.4	-359.4	8.00	8.00	Sharon Springs
7,200.0	30.92	0.36	7,136.8	-364.8	-301.3	-345.2	8.00	8.00	
7,233.3	33.59	0.36	7,165.0	-347.0	-301.2	-327.5	8.00	8.00	Niobrara
7,296.5	38.64	0.36	7,216.0	-309.8	-301.0	-290.4	8.00	8.00	B Chalk
7,300.0	38.92	0.36	7,218.8	-307.6	-300.9	-288.2	8.00	8.00	
7,356.1	43.41	0.36	7,261.0	-270.7	-300.7	-251.3	8.00	8.00	B Marl
7,400.0	46.92	0.36	7,291.9	-239.6	-300.5	-220.3	8.00	8.00	
7,422.5	48.72	0.36	7,307.0	-222.9	-300.4	-203.7	8.00	8.00	C Chalk
7,481.4	53.43	0.36	7,344.0	-177.1	-300.1	-158.0	8.00	8.00	C Marl
7,500.0	54.92	0.36	7,354.9	-162.0	-300.0	-142.9	8.00	8.00	
7,600.0	62.92	0.36	7,406.5	-76.4	-299.5	-57.5	8.00	8.00	
7,700.0	70.92	0.36	7,445.7	15.5	-298.9	34.2	8.00	8.00	
7,716.9	72.27	0.36	7,451.0	31.5	-298.8	50.2	8.00	8.00	Ft. Hayes
7,800.0	78.92	0.36	7,471.7	112.0	-298.3	130.4	8.00	8.00	
7,818.7	80.41	0.36	7,475.0	130.3	-298.2	148.7	8.00	8.00	Codell
7,900.0	86.92	0.36	7,484.0	211.1	-297.7	229.3	8.00	8.00	
7,938.5	90.00	0.36	7,485.0	249.6	-297.4	267.7	8.00	8.00	LP @ 7485' TVD; 90°
8,000.0	90.00	0.36	7,485.0	311.1	-297.1	329.1	0.00	0.00	
8,100.0	90.00	0.36	7,485.0	411.1	-296.4	428.8	0.00	0.00	
8,200.0	90.00	0.36	7,485.0	511.1	-295.8	528.6	0.00	0.00	
8,300.0	90.00	0.36	7,485.0	611.1	-295.2	628.4	0.00	0.00	
8,400.0	90.00	0.36	7,485.0	711.1	-294.5	728.1	0.00	0.00	
8,500.0	90.00	0.36	7,485.0	811.1	-293.9	827.9	0.00	0.00	

# Cathedral Energy Services

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Maier 4D-28H
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	WELL @ 5001.0ft (Original Well Elev)
<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	WELL @ 5001.0ft (Original Well Elev)
<b>Site:</b>	S28-T2N-R66W (Maier)	<b>North Reference:</b>	True
<b>Well:</b>	Maier 4D-28H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	Plan #1		

### Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
8,600.0	90.00	0.36	7,485.0	911.1	-293.3	927.7	0.00	0.00	
8,700.0	90.00	0.36	7,485.0	1,011.1	-292.7	1,027.4	0.00	0.00	
8,800.0	90.00	0.36	7,485.0	1,111.1	-292.0	1,127.2	0.00	0.00	
8,900.0	90.00	0.36	7,485.0	1,211.1	-291.4	1,226.9	0.00	0.00	
9,000.0	90.00	0.36	7,485.0	1,311.1	-290.8	1,326.7	0.00	0.00	
9,100.0	90.00	0.36	7,485.0	1,411.1	-290.2	1,426.5	0.00	0.00	
9,200.0	90.00	0.36	7,485.0	1,511.1	-289.5	1,526.2	0.00	0.00	
9,300.0	90.00	0.36	7,485.0	1,611.1	-288.9	1,626.0	0.00	0.00	
9,400.0	90.00	0.36	7,485.0	1,711.1	-288.3	1,725.8	0.00	0.00	
9,500.0	90.00	0.36	7,485.0	1,811.1	-287.6	1,825.5	0.00	0.00	
9,600.0	90.00	0.36	7,485.0	1,911.1	-287.0	1,925.3	0.00	0.00	
9,700.0	90.00	0.36	7,485.0	2,011.1	-286.4	2,025.0	0.00	0.00	
9,800.0	90.00	0.36	7,485.0	2,111.1	-285.8	2,124.8	0.00	0.00	
9,900.0	90.00	0.36	7,485.0	2,211.1	-285.1	2,224.6	0.00	0.00	
10,000.0	90.00	0.36	7,485.0	2,311.1	-284.5	2,324.3	0.00	0.00	
10,100.0	90.00	0.36	7,485.0	2,411.1	-283.9	2,424.1	0.00	0.00	
10,200.0	90.00	0.36	7,485.0	2,511.1	-283.3	2,523.9	0.00	0.00	
10,300.0	90.00	0.36	7,485.0	2,611.1	-282.6	2,623.6	0.00	0.00	
10,400.0	90.00	0.36	7,485.0	2,711.1	-282.0	2,723.4	0.00	0.00	
10,500.0	90.00	0.36	7,485.0	2,811.1	-281.4	2,823.2	0.00	0.00	
10,600.0	90.00	0.36	7,485.0	2,911.1	-280.7	2,922.9	0.00	0.00	
10,700.0	90.00	0.36	7,485.0	3,011.0	-280.1	3,022.7	0.00	0.00	
10,800.0	90.00	0.36	7,485.0	3,111.0	-279.5	3,122.4	0.00	0.00	
10,900.0	90.00	0.36	7,485.0	3,211.0	-278.9	3,222.2	0.00	0.00	
11,000.0	90.00	0.36	7,485.0	3,311.0	-278.2	3,322.0	0.00	0.00	
11,100.0	90.00	0.36	7,485.0	3,411.0	-277.6	3,421.7	0.00	0.00	
11,200.0	90.00	0.36	7,485.0	3,511.0	-277.0	3,521.5	0.00	0.00	
11,300.0	90.00	0.36	7,485.0	3,611.0	-276.3	3,621.3	0.00	0.00	
11,400.0	90.00	0.36	7,485.0	3,711.0	-275.7	3,721.0	0.00	0.00	
11,500.0	90.00	0.36	7,485.0	3,811.0	-275.1	3,820.8	0.00	0.00	
11,600.0	90.00	0.36	7,485.0	3,911.0	-274.5	3,920.5	0.00	0.00	
11,700.0	90.00	0.36	7,485.0	4,011.0	-273.8	4,020.3	0.00	0.00	
11,800.0	90.00	0.36	7,485.0	4,111.0	-273.2	4,120.1	0.00	0.00	
11,900.0	90.00	0.36	7,485.0	4,211.0	-272.6	4,219.8	0.00	0.00	
12,000.0	90.00	0.36	7,485.0	4,311.0	-272.0	4,319.6	0.00	0.00	
12,024.6	90.00	0.36	7,485.0	4,335.6	-271.8	4,344.1	0.00	0.00	TD at 12024.6 - Maier 4D-28H PBHL - Maier 4C

### Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
Maier 4D-28H PBHL	0.00	0.00	7,485.0	4,338.6	-181.8	1,285,620.74	3,202,733.42	40.115140	-104.775140
- plan misses target center by 90.1ft at 12024.6ft MD (7485.0 TVD, 4335.6 N, -271.8 E)									
- Point									
Maier 4D-28H PBHL NE	0.00	0.00	7,485.0	4,335.6	-271.8	1,285,617.03	3,202,643.44	40.115132	-104.775462
- plan hits target center									
- Point									

# Cathedral Energy Services

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Maier 4D-28H
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	WELL @ 5001.0ft (Original Well Elev)
<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	WELL @ 5001.0ft (Original Well Elev)
<b>Site:</b>	S28-T2N-R66W (Maier)	<b>North Reference:</b>	True
<b>Well:</b>	Maier 4D-28H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	Plan #1		

### Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
902.3	901.0	Fox Hills - BASE			
4,737.7	4,693.0	Sussex			
4,919.7	4,875.0	Sussex Marker			
5,168.7	5,124.0	Shannon			
6,545.7	6,501.0	Teepee Buttes (*if present)			
7,171.4	7,112.0	Sharon Springs			
7,233.3	7,165.0	Niobrara			
7,296.5	7,216.0	B Chalk			
7,356.1	7,261.0	B Marl			
7,422.5	7,307.0	C Chalk			
7,481.4	7,344.0	C Marl			
7,716.9	7,451.0	Ft. Hayes			
7,818.7	7,475.0	Codell			

### Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
200.0	200.0	0.0	0.0	KOP @ 200'
700.0	699.4	-15.4	15.4	End of nudge/Start build/turn @ 700' MD
1,777.2	1,769.5	-120.6	-11.6	EOB; Inc=10°
3,877.2	3,837.6	-399.9	-246.0	Start Drop -1.00
4,877.2	4,832.5	-466.6	-301.9	EOD; Inc=0°
6,813.5	6,768.8	-466.6	-301.9	Start Build 8.00
7,938.5	7,485.0	249.6	-297.4	LP @ 7485' TVD; 90°
12,024.6	7,485.0	4,335.6	-271.8	TD at 12024.6

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

**DJ Wattenberg**

**S28-T2N-R66W (Maier)**

**Maier 4D-28H**

**Hz**

**Plan #1**

## **Anticollision Report**

**06 March, 2013**

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Maier 4D-28H
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5001.0ft (Original Well Elev)
<b>Reference Site:</b>	S28-T2N-R66W (Maier)	<b>MD Reference:</b>	WELL @ 5001.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Maier 4D-28H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

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

Survey Tool Program		Date	3/6/2013		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.0	12,024.6	Plan #1 (Hz)	MWD	Geolink MWD	

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
S28-T2N-R66W (Maier)						
ANGELA #1 (EXISTING) - EXISTING - NO SURVEYS						Out of range
ANGELA #42-28 (EXISTING) - EXISTING - GYRO	10,453.4	7,200.0	293.1	255.3	7.760	CC, ES, SF
BREICKLER #1 (EXISTING) - EXISTING - NO SURVEY						Out of range
DIANE #1 (EXISTING) - EXISTING - GYRO						Out of range
DIANE #34-28 (EXISTING) - DD - Plan #1						Out of range
DIANE #44-28 (EXISTING) - EXISTING - GYRO	1,384.0	1,365.1	85.5	81.7	22.456	CC
DIANE #44-28 (EXISTING) - EXISTING - GYRO	1,400.0	1,381.0	85.5	81.7	22.203	ES
DIANE #44-28 (EXISTING) - EXISTING - GYRO	7,566.0	7,374.6	178.4	158.7	9.029	SF
DIANE #6-4-28 (EXISTING) - EXISTING - SURVEYS						Out of range
DIANE #8-6-28 (EXISTING) - EXISTING - SURVEYS						Out of range
ELAINE #43-28 (EXISTING) - EXISTING - NO SURVEYS						Out of range
HSR-ARISTOCRAT #13-27A (EXISTING) - EXISTING - S	682.4	667.1	31.6	29.2	13.103	CC
HSR-ARISTOCRAT #13-27A (EXISTING) - EXISTING - S	700.0	684.6	31.6	29.1	12.759	ES
HSR-ARISTOCRAT #13-27A (EXISTING) - EXISTING - S	1,100.0	1,083.2	36.7	32.8	9.391	SF
MAIER #1 (EXISTING) - EXISTING - GYRO	11,294.3	7,442.6	441.0	368.2	6.059	CC
MAIER #1 (EXISTING) - EXISTING - GYRO	11,300.0	7,442.7	441.0	368.2	6.051	ES, SF
MAIER #31-28 (EXISTING) - EXISTING - SURVEYS						Out of range
MAIER #32-28 (EXISTING) - EXISTING - GYRO						Out of range
MAIER #33-28 (EXISTING) - EXISTING - GYRO						Out of range
MAIER #41-28 (EXISTING) - EXISTING - GYRO	11,908.6	7,449.5	151.5	68.1	1.817	CC, ES, SF
MAIER #4-2-28 (EXISTING) - EXISTING - SURVEYS						Out of range
MAIER #43-28 (EXISTING) - EXISTING - GYRO	9,060.6	7,431.1	257.1	221.6	7.235	CC, ES
MAIER #43-28 (EXISTING) - EXISTING - GYRO	9,100.0	7,430.4	260.1	223.9	7.196	SF
MAIER #4-4-28 (EXISTING) - EXISTING - SURVEYS						Out of range
MAIER #8-4-28 (EXISTING) - EXISTING - SURVEYS						Out of range
Maier 4A-28H - Hz - Plan #1						Out of range
Maier 4B-28H - Hz - Plan #1						Out of range
Maier 4C-28H - Hz - Plan #1	200.0	200.0	11.2	10.5	17.142	CC, ES
Maier 4C-28H - Hz - Plan #1	400.0	400.0	13.9	12.5	10.262	SF
MCQUEARY #28-2 (EXISTING) - EXISTING - NO SURV						Out of range
UPRR 50 PAN AM C 1 (EXISTING) - EXISTING - NO SU						Out of range
URSULA #1 (EXISTING) - EXISTING - NO SURVEYS						Out of range
URSULA #2 (EXISTING) - EXISTING - NO SURVEYS						Out of range

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



# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Maier 4D-28H
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5001.0ft (Original Well Elev)
<b>Reference Site:</b>	S28-T2N-R66W (Maier)	<b>MD Reference:</b>	WELL @ 5001.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Maier 4D-28H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design										S28-T2N-R66W (Maier) - ANGELA #42-28 (EXISTING) - EXISTING - GYRO				Offset Site Error:		0.0 ft	
Survey Program:										100-Gyro				Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning			
Measured Depth Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor					
10,100.0	7,485.0	7,200.0	7,196.9	46.3	6.4	32.88	2,763.4	-122.6	459.1	424.5	34.53	13.295	7.760 CC, ES, SF				
10,200.0	7,485.0	7,200.0	7,196.9	47.9	6.4	32.88	2,763.4	-122.6	387.4	352.0	35.44	10.931					
10,300.0	7,485.0	7,200.0	7,196.9	49.6	6.4	32.88	2,763.4	-122.6	330.8	294.4	36.36	9.098					
10,400.0	7,485.0	7,200.0	7,196.9	51.3	6.4	32.88	2,763.4	-122.6	297.9	260.6	37.27	7.992					
10,453.4	7,485.0	7,200.0	7,196.9	52.2	6.4	32.88	2,763.4	-122.6	293.1	255.3	37.76						
10,500.0	7,485.0	7,200.0	7,196.9	53.0	6.4	32.88	2,763.4	-122.6	296.7	258.5	38.19	7.769					
10,600.0	7,485.0	7,200.0	7,196.9	54.7	6.4	32.88	2,763.4	-122.6	327.7	288.6	39.12	8.377					
10,700.0	7,485.0	7,200.0	7,196.9	56.4	6.4	32.88	2,763.4	-122.6	383.0	343.0	40.04	9.566					
10,800.0	7,485.0	7,200.0	7,196.9	58.1	6.4	32.88	2,763.4	-122.6	453.9	412.9	40.97	11.079					

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Maier 4D-28H
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5001.0ft (Original Well Elev)
<b>Reference Site:</b>	S28-T2N-R66W (Maier)	<b>MD Reference:</b>	WELL @ 5001.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Maier 4D-28H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S28-T2N-R66W (Maier) - DIANE #44-28 (EXISTING) - EXISTING - GYRO													Offset Site Error:	0.0 ft
Survey Program: 100-Gyro													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-107.22	-30.6	-98.7	104.9					
100.0	100.0	83.4	83.4	0.2	0.1	-107.15	-30.3	-98.2	102.8	102.6	0.23	456.346		
200.0	200.0	185.0	185.0	0.3	0.2	-106.89	-29.2	-96.3	100.7	100.2	0.49	205.015		
300.0	300.0	286.2	286.1	0.5	0.3	119.11	-27.3	-93.0	97.5	96.7	0.75	129.538		
400.0	400.0	387.5	387.2	0.7	0.4	121.15	-25.0	-88.5	93.8	92.8	1.02	92.052		
500.0	499.9	487.0	486.6	0.9	0.5	123.78	-23.3	-83.2	90.7	89.4	1.29	70.267		
600.0	599.7	586.0	585.5	1.1	0.6	127.00	-22.4	-78.6	89.4	87.9	1.57	57.101		
602.9	602.6	588.9	588.4	1.1	0.6	127.10	-22.4	-78.5	89.4	87.9	1.57	56.800		
700.0	699.4	686.0	685.5	1.3	0.6	130.67	-22.3	-74.3	90.1	88.2	1.85	48.699		
800.0	799.0	785.5	784.9	1.5	0.7	123.36	-22.5	-69.8	90.7	88.6	2.13	42.519		
900.0	898.7	885.7	884.9	1.7	0.8	115.34	-23.1	-65.4	90.3	87.9	2.42	37.331		
1,000.0	998.3	984.7	983.8	1.9	0.9	107.65	-24.2	-61.2	88.8	86.1	2.70	32.849		
1,100.0	1,098.0	1,083.3	1,082.4	2.1	1.0	101.81	-25.0	-58.0	87.6	84.6	2.99	29.299		
1,200.0	1,197.6	1,182.6	1,181.7	2.4	1.1	98.54	-25.5	-55.5	86.7	83.4	3.28	26.452		
1,300.0	1,297.0	1,281.9	1,280.9	2.6	1.2	97.81	-26.0	-53.2	85.8	82.2	3.57	24.058		
1,384.0	1,380.5	1,365.1	1,364.1	2.8	1.3	99.24	-26.1	-51.4	85.5	81.7	3.81	22.456 CC		
1,400.0	1,396.4	1,381.0	1,380.0	2.8	1.3	99.70	-26.1	-51.0	85.5	81.7	3.85	22.203 ES		
1,500.0	1,495.6	1,479.6	1,478.5	3.1	1.4	103.48	-26.3	-49.2	86.5	82.4	4.13	20.948		
1,600.0	1,594.6	1,578.3	1,577.2	3.3	1.4	108.39	-26.6	-48.3	89.5	85.1	4.40	20.341		
1,700.0	1,693.4	1,676.8	1,675.8	3.6	1.5	113.90	-27.0	-48.0	94.6	89.9	4.66	20.283		
1,800.0	1,791.9	1,775.2	1,774.1	3.9	1.6	120.38	-27.2	-47.8	102.1	97.1	4.92	20.762		
1,900.0	1,890.4	1,873.2	1,872.1	4.2	1.7	128.15	-27.1	-47.4	112.0	106.9	5.15	21.733		
2,000.0	1,988.9	1,971.5	1,970.4	4.5	1.8	134.33	-26.7	-47.7	124.0	118.6	5.39	22.989		
2,100.0	2,087.4	2,070.4	2,069.4	4.8	1.9	139.14	-26.5	-48.6	137.0	131.4	5.64	24.306		
2,200.0	2,185.9	2,168.5	2,167.5	5.1	1.9	142.98	-26.5	-49.8	150.6	144.7	5.88	25.602		
2,300.0	2,284.3	2,266.6	2,265.5	5.4	2.0	146.19	-25.9	-50.9	165.3	159.1	6.13	26.962		
2,400.0	2,382.8	2,364.4	2,363.3	5.8	2.1	148.82	-25.1	-52.1	180.6	174.2	6.38	28.310		
2,500.0	2,481.3	2,462.9	2,461.8	6.1	2.2	151.08	-24.0	-53.1	196.6	190.0	6.63	29.644		
2,600.0	2,579.8	2,561.7	2,560.6	6.4	2.3	153.05	-23.2	-54.1	212.6	205.7	6.89	30.878		
2,700.0	2,678.3	2,659.5	2,658.4	6.8	2.4	154.78	-22.4	-54.8	228.9	221.7	7.14	32.056		
2,800.0	2,776.7	2,756.3	2,755.2	7.1	2.4	156.29	-21.2	-55.2	245.8	238.4	7.39	33.247		
2,900.0	2,875.2	2,853.7	2,852.5	7.4	2.5	157.65	-19.4	-55.4	263.5	255.9	7.65	34.457		
3,000.0	2,973.7	2,952.1	2,951.0	7.8	2.6	158.86	-17.5	-55.5	281.4	273.5	7.90	35.605		
3,100.0	3,072.2	3,050.6	3,049.4	8.1	2.7	159.85	-15.6	-56.0	299.3	291.2	8.16	36.671		
3,200.0	3,170.7	3,148.9	3,147.7	8.4	2.8	160.73	-13.8	-56.4	317.3	308.8	8.42	37.674		
3,300.0	3,269.2	3,247.5	3,246.3	8.8	2.9	161.59	-12.1	-56.5	335.2	326.6	8.68	38.624		
3,400.0	3,367.6	3,347.4	3,346.2	9.1	2.9	162.28	-10.4	-57.3	353.0	344.1	8.94	39.489		
3,500.0	3,466.1	3,448.6	3,447.3	9.5	3.0	162.91	-9.4	-58.3	370.2	361.0	9.20	40.229		
3,600.0	3,564.6	3,547.9	3,546.7	9.8	3.1	163.52	-9.0	-59.2	386.8	377.4	9.46	40.878		
3,700.0	3,663.1	3,647.9	3,646.6	10.1	3.2	164.01	-8.4	-60.6	403.5	393.8	9.73	41.488		
3,800.0	3,761.6	3,751.6	3,750.3	10.5	3.3	164.48	-8.7	-62.4	419.3	409.3	9.99	41.965		
3,900.0	3,860.0	3,854.0	3,852.7	10.8	3.4	164.90	-10.0	-64.9	433.9	423.6	10.26	42.306		
4,000.0	3,958.7	3,956.8	3,955.5	11.2	3.5	165.28	-11.8	-67.6	446.7	436.2	10.52	42.467		
4,100.0	4,057.7	4,062.6	4,061.2	11.4	3.6	165.57	-14.9	-70.9	456.7	445.9	10.78	42.351		
4,200.0	4,156.9	4,167.2	4,165.6	11.7	3.6	165.76	-19.1	-75.1	463.7	452.6	11.05	41.970		
4,300.0	4,256.3	4,266.8	4,265.0	12.0	3.7	165.96	-23.8	-78.6	468.4	457.1	11.31	41.434		
4,400.0	4,355.9	4,365.3	4,363.3	12.2	3.8	166.28	-28.9	-80.7	471.8	460.3	11.56	40.825		
4,500.0	4,455.6	4,465.3	4,463.2	12.4	3.9	166.65	-34.2	-82.0	473.7	461.9	11.81	40.120		
4,600.0	4,555.4	4,564.6	4,562.4	12.6	4.0	166.90	-39.4	-83.7	473.9	461.8	12.06	39.301		
4,700.0	4,655.3	4,665.5	4,663.1	12.7	4.1	167.02	-44.2	-86.0	472.5	460.2	12.31	38.382		
4,800.0	4,755.3	4,766.1	4,763.5	12.8	4.2	167.01	-48.9	-89.0	469.0	456.5	12.56	37.339		
4,900.0	4,855.3	4,866.9	4,864.2	13.0	4.3	27.04	-54.1	-91.4	463.9	451.1	12.82	36.179		

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

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Maier 4D-28H
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5001.0ft (Original Well Elev)
<b>Reference Site:</b>	S28-T2N-R66W (Maier)	<b>MD Reference:</b>	WELL @ 5001.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Maier 4D-28H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S28-T2N-R66W (Maier) - DIANE #44-28 (EXISTING) - EXISTING - GYRO													Offset Site Error:	0.0 ft
Survey Program: 100-Gyro													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
5,000.0	4,955.3	4,965.6	4,962.8	13.1	4.3	27.01	-59.1	-94.2	458.1	445.1	13.08	35.019		
5,100.0	5,055.3	5,062.1	5,059.1	13.2	4.4	26.88	-63.1	-97.4	452.9	439.6	13.34	33.944		
5,200.0	5,155.3	5,161.6	5,158.5	13.3	4.5	26.88	-67.2	-99.5	448.3	434.7	13.60	32.955		
5,300.0	5,255.3	5,263.0	5,259.8	13.4	4.6	27.00	-72.0	-100.9	443.4	429.5	13.86	31.982		
5,400.0	5,355.3	5,366.5	5,363.1	13.5	4.7	27.11	-77.4	-102.7	438.0	423.9	14.13	31.008		
5,500.0	5,455.3	5,475.8	5,472.1	13.7	4.8	27.09	-84.0	-106.2	431.2	416.8	14.40	29.953		
5,600.0	5,555.3	5,579.7	5,575.6	13.8	4.9	26.89	-91.4	-111.7	422.4	407.8	14.66	28.809		
5,700.0	5,655.3	5,676.3	5,671.8	13.9	5.0	26.68	-98.3	-116.9	413.6	398.7	14.92	27.712		
5,800.0	5,755.3	5,766.2	5,761.5	14.0	5.1	26.61	-104.0	-120.3	406.3	391.1	15.18	26.767		
5,900.0	5,855.3	5,857.7	5,852.9	14.2	5.2	26.61	-107.9	-122.2	401.5	386.1	15.43	26.018		
6,000.0	5,955.3	5,962.3	5,947.5	14.3	5.2	26.64	-110.6	-123.4	398.4	382.7	15.69	25.393		
6,100.0	6,055.3	6,048.5	6,043.6	14.4	5.3	26.74	-112.7	-123.7	396.3	380.4	15.94	24.857		
6,200.0	6,155.3	6,146.0	6,141.1	14.5	5.4	26.71	-113.7	-124.3	395.1	378.9	16.20	24.385		
6,300.0	6,255.3	6,244.4	6,239.5	14.7	5.5	26.69	-114.3	-124.8	394.4	377.9	16.46	23.953		
6,400.0	6,355.3	6,344.5	6,339.6	14.8	5.6	26.57	-114.3	-125.7	393.9	377.2	16.73	23.550		
6,500.0	6,455.3	6,444.3	6,439.4	14.9	5.7	26.47	-114.6	-126.7	393.2	376.2	16.99	23.144		
6,584.9	6,540.3	6,527.2	6,522.3	15.1	5.7	26.36	-114.4	-127.4	393.0	375.8	17.21	22.835		
6,600.0	6,555.3	6,542.0	6,537.1	15.1	5.8	26.34	-114.4	-127.5	393.0	375.8	17.25	22.783		
6,700.0	6,655.3	6,641.0	6,636.0	15.2	5.8	26.24	-113.9	-128.1	393.2	375.7	17.51	22.453		
6,800.0	6,755.3	6,740.0	6,735.1	15.3	5.9	26.16	-113.3	-128.4	393.7	375.9	17.77	22.148		
6,900.0	6,855.1	6,838.8	6,833.9	15.4	6.0	26.35	-112.9	-127.6	389.6	371.7	17.92	21.744		
7,000.0	6,953.2	6,935.5	6,930.6	15.3	6.1	28.27	-112.2	-126.9	373.7	355.8	17.96	20.803		
7,100.0	7,047.7	7,028.6	7,023.6	15.2	6.2	31.89	-110.9	-126.2	346.8	328.8	17.96	19.311		
7,200.0	7,136.8	7,117.5	7,112.6	15.0	6.3	38.03	-109.6	-125.2	310.1	292.1	18.00	17.231		
7,300.0	7,218.8	7,200.4	7,195.4	14.7	6.3	47.81	-108.4	-124.0	266.5	248.2	18.26	14.591		
7,400.0	7,291.9	7,274.1	7,269.1	14.5	6.4	61.85	-107.3	-122.9	221.5	202.6	18.86	11.746		
7,500.0	7,354.9	7,338.3	7,333.3	14.3	6.4	78.69	-106.4	-121.8	186.7	167.2	19.51	9.571		
7,566.0	7,390.3	7,374.6	7,369.6	14.3	6.5	89.00	-105.9	-121.3	178.4	158.7	19.76	9.029 SF		
7,600.0	7,406.5	7,391.3	7,386.3	14.3	6.5	93.47	-105.7	-121.0	180.8	161.0	19.80	9.135		
7,700.0	7,445.7	7,431.0	7,425.9	14.4	6.5	101.80	-105.2	-120.4	215.5	195.6	19.90	10.829		
7,800.0	7,471.7	7,457.2	7,452.1	14.7	6.5	102.54	-104.9	-120.0	280.8	260.6	20.23	13.883		
7,900.0	7,484.0	7,469.8	7,464.8	15.3	6.6	95.00	-104.8	-119.7	362.6	341.7	20.91	17.340		
8,000.0	7,485.0	7,471.6	7,466.5	16.0	6.6	89.85	-104.8	-119.7	452.2	430.5	21.67	20.868		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Maier 4D-28H
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5001.0ft (Original Well Elev)
<b>Reference Site:</b>	S28-T2N-R66W (Maier)	<b>MD Reference:</b>	WELL @ 5001.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Maier 4D-28H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S28-T2N-R66W (Maier) - HSR-ARISTOCRAT #13-27A (EXISTING) - EXISTING - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 1415-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis			
0.0	0.0	0.0	0.0	0.0	0.0	-162.92	-36.4	-11.2	40.9					
100.0	100.0	85.0	85.0	0.2	0.2	-162.95	-36.4	-11.2	38.1	37.8	0.30	126.669		
200.0	200.0	185.1	185.1	0.3	0.3	-163.04	-36.3	-11.1	38.0	37.3	0.65	58.407		
300.0	300.0	285.1	285.1	0.5	0.5	62.98	-36.1	-10.9	37.3	36.3	1.00	37.332		
400.0	400.0	385.1	385.1	0.7	0.7	66.47	-35.9	-10.7	35.9	34.6	1.35	26.538		
500.0	499.9	485.0	485.0	0.9	0.9	72.95	-35.6	-10.4	34.0	32.3	1.72	19.830		
600.0	599.7	584.9	584.9	1.1	1.0	83.11	-35.2	-10.0	32.2	30.1	2.09	15.420		
682.4	681.9	667.1	667.1	1.2	1.2	94.47	-34.9	-9.6	31.6	29.2	2.41	13.103 CC		
700.0	699.4	684.6	684.6	1.3	1.2	97.20	-34.8	-9.6	31.6	29.1	2.48	12.759 ES		
800.0	799.0	784.2	784.2	1.5	1.4	101.14	-34.3	-9.0	32.3	29.4	2.86	11.305		
900.0	898.7	883.9	883.9	1.7	1.6	103.44	-33.7	-8.5	33.3	30.1	3.22	10.344		
1,000.0	998.3	983.6	983.6	1.9	1.7	105.67	-33.0	-7.8	34.7	31.1	3.57	9.716		
1,100.0	1,098.0	1,083.2	1,083.1	2.1	1.9	109.11	-32.3	-7.1	36.7	32.8	3.91	9.391 SF		
1,200.0	1,197.6	1,182.7	1,182.6	2.4	2.1	114.16	-31.5	-6.3	39.8	35.6	4.24	9.394		
1,300.0	1,297.0	1,282.0	1,282.0	2.6	2.3	120.39	-30.7	-5.5	44.5	39.9	4.56	9.749		
1,400.0	1,396.4	1,381.2	1,381.2	2.8	2.4	126.96	-29.8	-4.5	51.0	46.2	4.88	10.456		
1,500.0	1,495.6	1,480.3	1,480.2	3.1	2.6	133.11	-28.8	-3.6	59.8	54.6	5.21	11.478		
1,600.0	1,594.6	1,579.2	1,579.1	3.3	2.8	138.36	-28.0	-2.8	70.5	65.0	5.54	12.740		
1,700.0	1,693.4	1,677.9	1,677.8	3.6	3.0	142.72	-27.3	-2.1	83.2	77.3	5.87	14.179		
1,800.0	1,791.9	1,776.5	1,776.4	3.9	3.1	146.94	-26.7	-1.6	97.7	91.5	6.20	15.749		
1,900.0	1,890.4	1,875.0	1,874.9	4.2	3.3	151.89	-26.3	-1.2	113.2	106.6	6.54	17.305		
2,000.0	1,988.9	1,973.5	1,973.5	4.5	3.5	155.57	-26.0	-1.0	129.2	122.3	6.88	18.770		
2,100.0	2,087.4	2,072.0	2,071.9	4.8	3.6	158.32	-25.6	-1.1	145.5	138.3	7.22	20.145		
2,200.0	2,185.9	2,170.4	2,170.4	5.1	3.8	160.39	-25.1	-1.5	162.1	154.6	7.57	21.426		
2,300.0	2,284.3	2,268.9	2,268.9	5.4	4.0	161.95	-24.5	-2.3	178.9	171.0	7.91	22.612		
2,400.0	2,382.8	2,367.5	2,367.4	5.8	4.1	163.14	-23.8	-3.4	195.7	187.5	8.25	23.709		
2,500.0	2,481.3	2,465.8	2,465.7	6.1	4.3	164.05	-22.9	-4.8	212.6	204.0	8.60	24.724		
2,600.0	2,579.8	2,563.4	2,563.3	6.4	4.5	164.81	-21.8	-6.1	229.8	220.9	8.94	25.699		
2,700.0	2,678.3	2,660.9	2,660.7	6.8	4.7	165.46	-20.3	-7.3	247.5	238.2	9.29	26.645		
2,800.0	2,776.7	2,758.2	2,758.1	7.1	4.8	166.04	-18.6	-8.2	265.5	255.9	9.63	27.565		
2,900.0	2,875.2	2,855.5	2,855.3	7.4	5.0	166.54	-16.5	-9.0	283.9	273.9	9.98	28.461		
3,000.0	2,973.7	2,953.0	2,952.8	7.8	5.2	166.98	-14.1	-9.6	302.7	292.4	10.32	29.331		
3,100.0	3,072.2	3,051.6	3,051.4	8.1	5.4	167.39	-11.7	-10.2	321.5	310.8	10.67	30.140		
3,200.0	3,170.7	3,150.3	3,150.0	8.4	5.5	167.77	-9.5	-10.8	340.2	329.2	11.01	30.887		
3,300.0	3,269.2	3,249.0	3,248.8	8.8	5.7	168.13	-7.4	-11.3	358.7	347.4	11.36	31.576		
3,400.0	3,367.6	3,347.8	3,347.5	9.1	5.9	168.47	-5.5	-11.8	377.2	365.4	11.71	32.214		
3,500.0	3,466.1	3,446.7	3,446.3	9.5	6.1	168.78	-3.8	-12.3	395.5	383.4	12.06	32.804		
3,600.0	3,564.6	3,545.8	3,545.5	9.8	6.2	169.07	-2.2	-12.9	413.6	401.2	12.40	33.344		
3,700.0	3,663.1	3,645.0	3,644.7	10.1	6.4	169.33	-0.8	-13.7	431.5	418.8	12.75	33.841		
3,800.0	3,761.6	3,744.3	3,743.9	10.5	6.6	169.55	0.6	-14.7	449.3	436.2	13.10	34.296		
3,900.0	3,860.0	3,843.7	3,843.3	10.8	6.8	169.74	1.8	-15.8	466.8	453.4	13.45	34.697		
4,000.0	3,958.7	3,943.4	3,943.0	11.2	6.9	169.91	2.9	-17.2	482.9	469.1	13.82	34.944		
4,100.0	4,057.7	4,048.1	4,047.7	11.4	7.1	170.09	3.2	-18.6	496.7	482.5	14.19	35.005		

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Maier 4D-28H
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5001.0ft (Original Well Elev)
<b>Reference Site:</b>	S28-T2N-R66W (Maier)	<b>MD Reference:</b>	WELL @ 5001.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Maier 4D-28H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> S28-T2N-R66W (Maier) - MAIER #1 (EXISTING) - EXISTING - GYRO												<b>Offset Site Error:</b>	0.0 ft
Survey Program: 100-Gyro												<b>Offset Well Error:</b>	0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
11,100.0	7,485.0	7,441.1	7,440.0	63.2	6.5	-89.23	3,608.1	-717.3	481.9	412.5	69.45	6.939	
11,200.0	7,485.0	7,441.9	7,440.8	64.9	6.5	-89.33	3,608.1	-717.4	451.0	379.8	71.17	6.337	
11,294.3	7,485.0	7,442.6	7,441.5	66.5	6.5	-89.42	3,608.1	-717.4	441.0	368.2	72.79	6.059 CC	
11,300.0	7,485.0	7,442.7	7,441.6	66.6	6.5	-89.43	3,608.1	-717.4	441.0	368.2	72.89	6.051 ES, SF	
11,400.0	7,485.0	7,443.4	7,442.4	68.3	6.5	-89.53	3,608.1	-717.4	453.5	378.9	74.61	6.078	
11,500.0	7,485.0	7,444.2	7,443.1	70.0	6.5	-89.63	3,608.1	-717.4	486.6	410.3	76.33	6.375	

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Maier 4D-28H
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5001.0ft (Original Well Elev)
<b>Reference Site:</b>	S28-T2N-R66W (Maier)	<b>MD Reference:</b>	WELL @ 5001.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Maier 4D-28H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													S28-T2N-R66W (Maier) - MAIER #41-28 (EXISTING) - EXISTING - GYRO		Offset Site Error:		0.0 ft
Survey Program: 100-Gyro													Offset Well Error:		0.0 ft		
Reference		Offset		Semi Major Axis			Distance										
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning				
11,500.0	7,485.0	7,447.6	7,446.0	70.0	6.5	89.98	4,218.7	-121.0	435.8	359.5	76.34	5.709					
11,600.0	7,485.0	7,448.1	7,446.4	71.8	6.5	90.16	4,218.7	-121.0	343.8	265.8	78.07	4.404					
11,700.0	7,485.0	7,448.5	7,446.9	73.5	6.5	90.34	4,218.7	-121.0	257.8	178.1	79.79	3.232					
11,800.0	7,485.0	7,449.0	7,447.4	75.2	6.5	90.51	4,218.7	-121.0	186.4	104.9	81.52	2.287					
11,900.0	7,485.0	7,449.5	7,447.8	76.9	6.5	90.69	4,218.7	-121.0	151.8	68.5	83.24	1.823					
11,908.6	7,485.0	7,449.5	7,447.9	77.1	6.5	90.71	4,218.7	-121.0	151.5	68.1	83.39	1.817	CC, ES, SF				
12,000.0	7,485.0	7,449.9	7,448.3	78.6	6.5	90.87	4,218.7	-121.0	176.9	92.0	84.97	2.082					
12,024.6	7,485.0	7,450.0	7,448.4	79.1	6.5	90.91	4,218.7	-121.0	190.8	105.4	85.39	2.234					

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Maier 4D-28H
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5001.0ft (Original Well Elev)
<b>Reference Site:</b>	S28-T2N-R66W (Maier)	<b>MD Reference:</b>	WELL @ 5001.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Maier 4D-28H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design										S28-T2N-R66W (Maier) - MAIER #43-28 (EXISTING) - EXISTING - GYRO				Offset Site Error:		0.0 ft	
Survey Program: 100-Gyro														Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance										
Measured Depth Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore +N/-S (ft)	Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning				
8,700.0	7,485.0	7,437.7	7,434.5	24.1	6.6	89.22	1,370.0	-33.2	442.8	412.7	30.12	14.704					
8,800.0	7,485.0	7,435.8	7,432.7	25.6	6.6	88.81	1,370.0	-33.3	366.1	334.5	31.58	11.592					
8,900.0	7,485.0	7,434.0	7,430.8	27.0	6.6	88.40	1,370.0	-33.4	303.1	270.1	33.07	9.165					
9,000.0	7,485.0	7,432.2	7,429.0	28.6	6.6	88.00	1,370.1	-33.5	264.1	229.5	34.60	7.635					
9,060.6	7,485.0	7,431.1	7,427.9	29.5	6.6	87.75	1,370.1	-33.5	257.1	221.6	35.53	7.235 CC, ES					
9,100.0	7,485.0	7,430.4	7,427.2	30.1	6.6	87.59	1,370.1	-33.5	260.1	223.9	36.14	7.196 SF					
9,200.0	7,485.0	7,428.6	7,425.4	31.6	6.6	87.20	1,370.1	-33.6	292.4	254.7	37.71	7.755					
9,300.0	7,485.0	7,426.9	7,423.7	33.2	6.6	86.81	1,370.2	-33.7	351.3	312.0	39.29	8.940					
9,400.0	7,485.0	7,425.1	7,421.9	34.8	6.5	86.42	1,370.2	-33.7	425.7	384.8	40.89	10.413					

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Maier 4D-28H
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5001.0ft (Original Well Elev)
<b>Reference Site:</b>	S28-T2N-R66W (Maier)	<b>MD Reference:</b>	WELL @ 5001.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Maier 4D-28H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S28-T2N-R66W (Maier) - Maier 4C-28H - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	-89.96	0.0	-11.2	11.2					
100.0	100.0	100.0	100.0	0.2	0.2	-89.96	0.0	-11.2	11.2	10.9	0.30	36.844		
200.0	200.0	200.0	200.0	0.3	0.3	-89.96	0.0	-11.2	11.2	10.5	0.65	17.142 CC, ES		
300.0	300.0	300.0	300.0	0.5	0.5	138.03	0.0	-11.2	11.8	10.8	1.00	11.797		
400.0	400.0	400.0	400.0	0.7	0.7	145.26	0.0	-11.2	13.9	12.5	1.35	10.262 SF		
500.0	499.9	499.6	499.6	0.9	0.8	152.43	0.0	-12.1	18.5	16.8	1.70	10.844		
600.0	599.7	598.9	598.8	1.1	1.0	156.73	-0.1	-14.6	26.4	24.4	2.05	12.870		
700.0	699.4	697.7	697.6	1.3	1.2	158.84	-0.1	-18.9	37.6	35.2	2.40	15.656		
800.0	799.0	796.2	795.9	1.5	1.4	148.83	-0.2	-24.9	50.6	47.9	2.76	18.332		
900.0	898.7	894.4	893.8	1.7	1.6	137.81	-0.4	-32.5	64.0	60.9	3.13	20.472		
1,000.0	998.3	992.4	991.3	1.9	1.8	126.83	-0.5	-41.8	77.8	74.3	3.50	22.213		
1,100.0	1,098.0	1,090.1	1,088.4	2.1	2.1	116.89	-0.7	-52.7	92.1	88.2	3.89	23.640		
1,200.0	1,197.6	1,187.5	1,185.0	2.4	2.3	108.53	-0.9	-65.2	106.7	102.4	4.30	24.807		
1,300.0	1,297.0	1,286.3	1,282.8	2.6	2.6	101.68	-1.7	-79.3	121.2	116.4	4.73	25.591		
1,400.0	1,396.4	1,385.5	1,380.9	2.8	2.9	95.99	-4.0	-94.2	134.6	129.4	5.20	25.879		
1,500.0	1,495.6	1,484.9	1,478.9	3.1	3.2	91.28	-7.9	-109.9	146.9	141.2	5.70	25.764		
1,600.0	1,594.6	1,584.4	1,576.9	3.3	3.5	87.35	-13.2	-126.5	158.1	151.8	6.24	25.330		
1,700.0	1,693.4	1,684.1	1,674.8	3.6	3.9	84.02	-20.1	-144.0	168.1	161.3	6.82	24.649		
1,800.0	1,791.9	1,783.9	1,772.6	3.9	4.2	81.75	-28.4	-162.2	177.1	169.6	7.44	23.794		
1,900.0	1,890.4	1,883.7	1,870.1	4.2	4.6	81.32	-38.3	-181.2	185.6	177.5	8.09	22.945		
2,000.0	1,988.9	1,983.5	1,967.2	4.5	5.0	80.41	-49.8	-201.1	194.1	185.3	8.76	22.165		
2,100.0	2,087.4	2,083.1	2,063.8	4.8	5.5	79.09	-62.7	-221.7	202.5	193.1	9.44	21.464		
2,200.0	2,185.9	2,182.6	2,159.9	5.1	5.9	77.46	-76.9	-242.9	211.1	201.0	10.11	20.874		
2,300.0	2,284.3	2,282.1	2,256.0	5.4	6.4	75.90	-91.2	-264.3	219.9	209.1	10.79	20.381		
2,400.0	2,382.8	2,381.5	2,352.1	5.8	6.8	74.46	-105.6	-285.6	228.7	217.3	11.45	19.969		
2,500.0	2,481.3	2,480.9	2,448.1	6.1	7.3	73.13	-120.0	-306.9	237.8	225.6	12.12	19.622		
2,600.0	2,579.8	2,580.4	2,544.2	6.4	7.8	71.89	-134.4	-328.3	246.9	234.1	12.77	19.330		
2,700.0	2,678.3	2,679.8	2,640.2	6.8	8.2	70.75	-148.8	-349.6	256.1	242.7	13.42	19.083		
2,800.0	2,776.7	2,779.3	2,736.3	7.1	8.7	69.68	-163.2	-370.9	265.5	251.4	14.07	18.873		
2,900.0	2,875.2	2,878.7	2,832.3	7.4	9.2	68.69	-177.6	-392.3	274.9	260.2	14.71	18.695		
3,000.0	2,973.7	2,978.2	2,928.4	7.8	9.6	67.76	-192.0	-413.6	284.4	269.1	15.34	18.542		
3,100.0	3,072.2	3,077.6	3,024.4	8.1	10.1	66.90	-206.4	-435.0	294.0	278.0	15.97	18.413		
3,200.0	3,170.7	3,177.1	3,120.5	8.4	10.6	66.08	-220.8	-456.3	303.6	287.0	16.59	18.302		
3,300.0	3,269.2	3,276.5	3,216.6	8.8	11.1	65.32	-235.2	-477.6	313.3	296.1	17.21	18.207		
3,400.0	3,367.6	3,376.0	3,312.6	9.1	11.6	64.60	-249.6	-499.0	323.0	305.2	17.82	18.126		
3,500.0	3,466.1	3,475.4	3,408.7	9.5	12.0	63.93	-264.0	-520.3	332.8	314.4	18.43	18.056		
3,600.0	3,564.6	3,574.8	3,504.7	9.8	12.5	63.29	-278.4	-541.6	342.7	323.6	19.04	17.997		
3,700.0	3,663.1	3,674.3	3,600.8	10.1	13.0	62.69	-292.7	-563.0	352.5	332.9	19.64	17.947		
3,800.0	3,761.6	3,773.7	3,696.8	10.5	13.5	62.13	-307.1	-584.3	362.5	342.2	20.24	17.905		
3,900.0	3,860.0	3,873.2	3,792.9	10.8	14.0	61.60	-321.5	-605.7	372.4	351.6	20.84	17.869		
4,000.0	3,958.7	3,972.5	3,888.9	11.2	14.5	61.02	-335.9	-627.0	383.0	361.6	21.39	17.903		
4,100.0	4,057.7	4,071.7	3,984.6	11.4	14.9	60.26	-350.3	-648.3	394.5	372.6	21.88	18.026		
4,200.0	4,156.9	4,173.0	4,082.6	11.7	15.4	59.34	-364.8	-669.9	406.8	384.5	22.32	18.231		
4,300.0	4,256.3	4,277.5	4,184.0	12.0	15.9	58.38	-379.0	-690.8	419.1	396.4	22.70	18.463		
4,400.0	4,355.9	4,382.3	4,286.1	12.2	16.3	57.44	-392.1	-710.3	431.0	408.0	23.03	18.712		
4,500.0	4,455.6	4,487.4	4,388.9	12.4	16.8	56.51	-404.3	-728.4	442.6	419.3	23.33	18.976		
4,600.0	4,555.4	4,592.9	4,492.5	12.6	17.1	55.59	-415.4	-744.8	454.0	430.4	23.58	19.255		
4,700.0	4,655.3	4,698.6	4,596.6	12.7	17.5	54.68	-425.5	-759.8	465.0	441.2	23.79	19.547		
4,800.0	4,755.3	4,804.5	4,701.4	12.8	17.8	53.78	-434.5	-773.2	475.7	451.7	23.96	19.854		
4,900.0	4,855.3	4,910.8	4,806.7	13.0	18.1	-87.14	-442.5	-785.0	486.1	462.0	24.02	20.239		
5,000.0	4,955.3	5,017.5	4,912.7	13.1	18.4	-88.00	-449.4	-795.2	495.4	471.2	24.16	20.504		

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



## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Maier 4D-28H
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5001.0ft (Original Well Elev)
<b>Reference Site:</b>	S28-T2N-R66W (Maier)	<b>MD Reference:</b>	WELL @ 5001.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Maier 4D-28H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to WELL @ 5001.0ft (Original Well Elev)

Offset Depths are relative to Offset Datum

Central Meridian is -105.500000 °

Coordinates are relative to: Maier 4D-28H

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.47°

