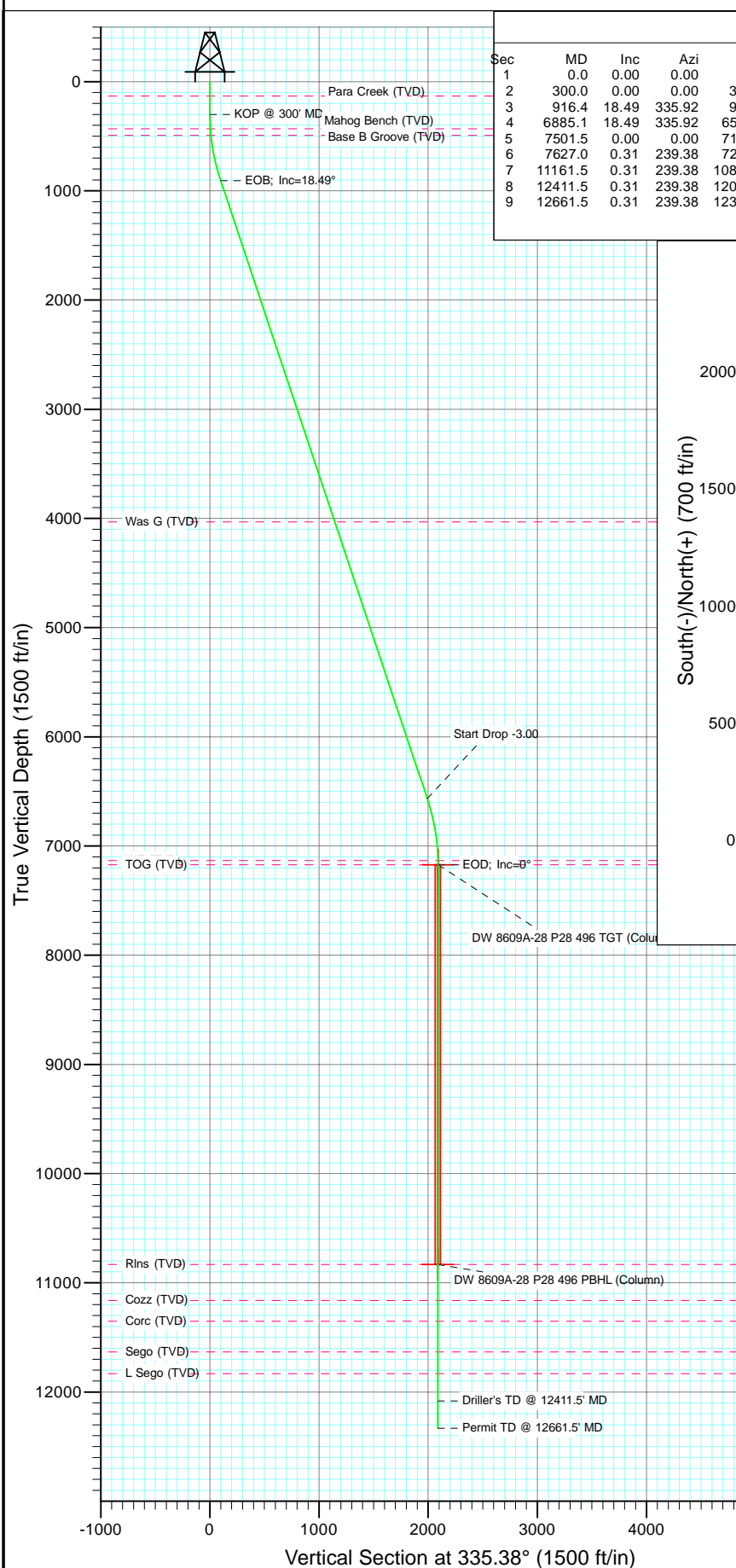
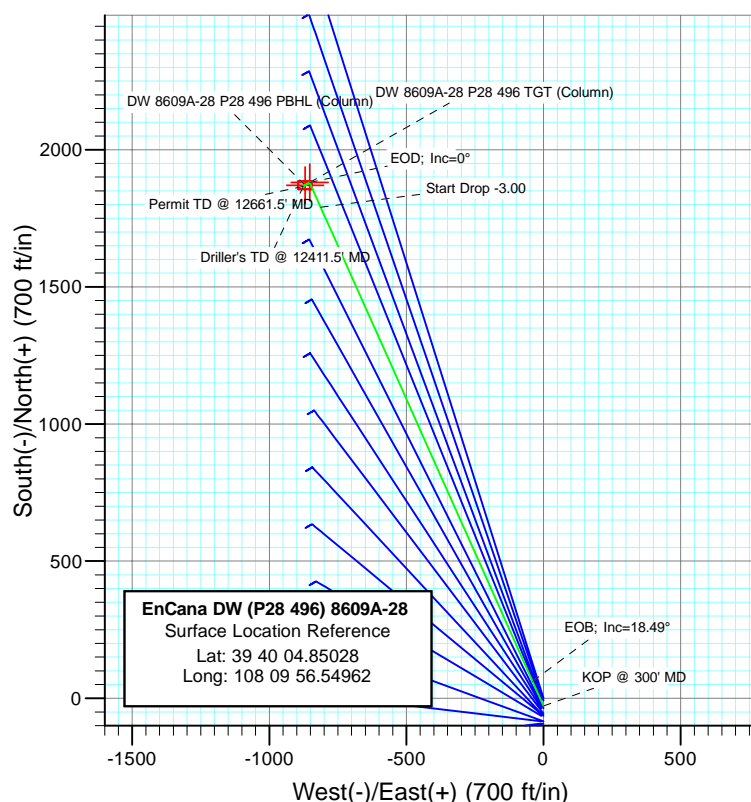




Project: Double Willow
Site: S28-T4S-R96W (P28 496)(column pattern)
Well: DW 8609A-28 (P28 496)
Wellbore: DD
Design: Plan #1



SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	-28.0	-0.1	0.00	0.00	0.0	
2	300.0	0.00	0.00	300.0	-28.0	-0.1	0.00	0.00	0.0	
3	916.4	18.49	335.92	905.7	62.0	-40.4	3.00	335.92	98.6	
4	6885.1	18.49	335.92	6566.3	1790.3	-812.7	0.00	0.00	1991.6	
5	7501.5	0.00	0.00	7172.0	1880.4	-852.9	3.00	180.00	2090.2	DW 8609A-28 P28 496 TGT (Column)
6	7627.0	0.31	239.38	7297.5	1880.2	-853.2	0.25	239.38	2090.2	
7	11161.5	0.31	239.38	10832.0	1870.3	-869.9	0.00	0.00	2088.1	DW 8609A-28 P28 496 PBHL (Column)
8	12411.5	0.31	239.38	12082.0	1866.8	-875.8	0.00	0.00	2087.4	
9	12661.5	0.31	239.38	12332.0	1866.1	-877.0	0.00	0.00	2087.3	



FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
132.0	132.0	Para Creek (TVD)
432.0	432.1	Mahog Bench (TVD)
492.0	492.3	Base B Groove (TVD)
4032.0	4212.8	Was G (TVD)
7132.0	7461.5	WF (TVD)
7172.0	7501.5	TOG (TVD)
10832.0	11161.5	Rlns (TVD)
11162.0	11491.5	Cozz (TVD)
11352.0	11681.5	Corc (TVD)
11632.0	11961.5	Sego (TVD)
11832.0	12161.5	L Sego (TVD)

EnCana DW (P28 496) 8609A-28
Surface Location Reference
Lat: 39 40 04.85028
Long: 108 09 56.54962

Plan #1
DW 8609A-28 (P28 496)
WELL @ 7804.0ft (Original Well Elev)
North American Datum 1983
Site S28-T4S-R96W (P28 496)(column pattern), True North

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
132.0	132.0	Para Creek (TVD)
432.0	432.1	Mahog Bench (TVD)
492.0	492.3	Base B Groove (TVD)
4032.0	4212.8	Was G (TVD)
7132.0	7461.5	WF (TVD)
7172.0	7501.5	TOG (TVD)
10832.0	11161.5	Rlns (TVD)
11162.0	11491.5	Cozz (TVD)
11352.0	11681.5	Corc (TVD)
11632.0	11961.5	Sego (TVD)
11832.0	12161.5	L Sego (TVD)

Wellbore Details

Type	Target	Azimuth	Origin	Type	N/S	E/W	From
Target	DW 8609A-28 P28 496 PBHL (Column)	335.38	-28.0	Slot	-0.1	-0.1	0.0

Name
DW 8609A-28 P28 496 TGT (Column) 1880.4
DW 8609A-28 P28 496 PBHL (Column) 10832.0 1870.3

Latitude
-852.939° 40' 23.71 N
-869.939° 40' 23.61 N

Longitude
108° 10' 7.46 W
108° 10' 7.67 W

Magnetic Field
Strength: 52361.0snT
Dip Angle: 65.86°
Date: 12/1/2010
Model: IGRF2010

Type	Target	Azimuth	Origin	Type	N/S	E/W	From
Target	DW 8609A-28 P28 496 PBHL (Column)	335.38	-28.0	Slot	-0.1	-0.1	0.0
Name	DW 8609A-28 P28 496 TGT (Column)	1880.4	-852.939° 40' 23.71 N	Latitude	108° 10' 7.46 W		
	DW 8609A-28 P28 496 PBHL (Column)	10832.0	1870.3	-869.939° 40' 23.61 N	108° 10' 7.67 W		

Cathedral Energy Services

Planning Report

Database:	EDM 5000.1 US Multi Users DB	Local Co-ordinate Reference:	Site S28-T4S-R96W (P28 496)(column pattern)
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 7804.0ft (Original Well Elev)
Project:	Double Willow	MD Reference:	WELL @ 7804.0ft (Original Well Elev)
Site:	S28-T4S-R96W (P28 496)(column pattern)	North Reference:	True
Well:	DW 8609A-28 (P28 496)	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #1		

Project	Double Willow		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Central Zone		

Site	S28-T4S-R96W (P28 496)(column pattern)				
Site Position:		Northing:	1,679,243.29 ft	Latitude:	39° 40' 5.13 N
From:	Lat/Long	Easting:	2,249,687.54 ft	Longitude:	108° 9' 56.55 W
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	-1.68 °

Well	DW 8609A-28 (P28 496)					
Well Position	+N/-S	-28.0 ft	Northing:	1,679,215.27 ft	Latitude:	39° 40' 4.85 N
	+E/-W	-0.1 ft	Easting:	2,249,686.58 ft	Longitude:	108° 9' 56.55 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	7,771.0 ft

Wellbore	DD				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/1/2010	10.52	65.86	52,361

Design	Plan #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	-28.0	-0.1	335.38

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	-28.0	-0.1	0.00	0.00	0.00	0.00	
300.0	0.00	0.00	300.0	-28.0	-0.1	0.00	0.00	0.00	0.00	
916.4	18.49	335.92	905.7	62.0	-40.4	3.00	3.00	0.00	335.92	
6,885.1	18.49	335.92	6,566.3	1,790.3	-812.7	0.00	0.00	0.00	0.00	
7,501.5	0.00	0.00	7,172.0	1,880.4	-852.9	3.00	-3.00	0.00	180.00	DW 8609A-28 P28 49
7,627.0	0.31	239.38	7,297.5	1,880.2	-853.2	0.25	0.25	-96.10	239.38	
11,161.5	0.31	239.38	10,832.0	1,870.3	-869.9	0.00	0.00	0.00	0.00	DW 8609A-28 P28 49
12,411.5	0.31	239.38	12,082.0	1,866.8	-875.8	0.00	0.00	0.00	0.00	
12,661.5	0.31	239.38	12,332.0	1,866.1	-877.0	0.00	0.00	0.00	0.00	

Cathedral Energy Services

Planning Report

Database:	EDM 5000.1 US Multi Users DB	Local Co-ordinate Reference:	Site S28-T4S-R96W (P28 496)(column pattern)
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 7804.0ft (Original Well Elev)
Project:	Double Willow	MD Reference:	WELL @ 7804.0ft (Original Well Elev)
Site:	S28-T4S-R96W (P28 496)(column pattern)	North Reference:	True
Well:	DW 8609A-28 (P28 496)	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
0.0	0.00	0.00	0.0	-28.0	-0.1	0.0	0.00	0.00	
100.0	0.00	0.00	100.0	-28.0	-0.1	0.0	0.00	0.00	
132.0	0.00	0.00	132.0	-28.0	-0.1	0.0	0.00	0.00	Para Creek (TVD)
200.0	0.00	0.00	200.0	-28.0	-0.1	0.0	0.00	0.00	
300.0	0.00	0.00	300.0	-28.0	-0.1	0.0	0.00	0.00	KOP @ 300' MD
400.0	3.00	335.92	400.0	-25.7	-1.2	2.6	3.00	3.00	
432.1	3.96	335.92	432.0	-23.9	-2.0	4.6	3.00	3.00	Mahog Bench (TVD)
492.3	5.77	335.92	492.0	-19.2	-4.1	9.7	3.00	3.00	Base B Groove (TVD)
500.0	6.00	335.92	499.6	-18.5	-4.4	10.5	3.00	3.00	
600.0	9.00	335.92	598.8	-6.6	-9.7	23.5	3.00	3.00	
700.0	12.00	335.92	697.1	10.1	-17.2	41.7	3.00	3.00	
800.0	15.00	335.92	794.3	31.4	-26.7	65.1	3.00	3.00	
900.0	18.00	335.92	890.2	57.3	-38.3	93.5	3.00	3.00	
916.4	18.49	335.92	905.7	62.0	-40.4	98.6	3.00	3.00	EOB; Inc=18.49°
1,000.0	18.49	335.92	985.0	86.2	-51.2	125.1	0.00	0.00	
1,100.0	18.49	335.92	1,079.9	115.2	-64.1	156.8	0.00	0.00	
1,200.0	18.49	335.92	1,174.7	144.1	-77.1	188.6	0.00	0.00	
1,300.0	18.49	335.92	1,269.5	173.1	-90.0	220.3	0.00	0.00	
1,400.0	18.49	335.92	1,364.4	202.0	-102.9	252.0	0.00	0.00	
1,500.0	18.49	335.92	1,459.2	231.0	-115.9	283.7	0.00	0.00	
1,600.0	18.49	335.92	1,554.1	259.9	-128.8	315.4	0.00	0.00	
1,700.0	18.49	335.92	1,648.9	288.9	-141.8	347.1	0.00	0.00	
1,800.0	18.49	335.92	1,743.7	317.9	-154.7	378.8	0.00	0.00	
1,900.0	18.49	335.92	1,838.6	346.8	-167.6	410.6	0.00	0.00	
2,000.0	18.49	335.92	1,933.4	375.8	-180.6	442.3	0.00	0.00	
2,100.0	18.49	335.92	2,028.2	404.7	-193.5	474.0	0.00	0.00	
2,200.0	18.49	335.92	2,123.1	433.7	-206.5	505.7	0.00	0.00	
2,300.0	18.49	335.92	2,217.9	462.6	-219.4	537.4	0.00	0.00	
2,400.0	18.49	335.92	2,312.8	491.6	-232.3	569.1	0.00	0.00	
2,500.0	18.49	335.92	2,407.6	520.6	-245.3	600.9	0.00	0.00	
2,600.0	18.49	335.92	2,502.4	549.5	-258.2	632.6	0.00	0.00	
2,700.0	18.49	335.92	2,597.3	578.5	-271.2	664.3	0.00	0.00	
2,800.0	18.49	335.92	2,692.1	607.4	-284.1	696.0	0.00	0.00	
2,900.0	18.49	335.92	2,786.9	636.4	-297.0	727.7	0.00	0.00	
3,000.0	18.49	335.92	2,881.8	665.3	-310.0	759.4	0.00	0.00	
3,100.0	18.49	335.92	2,976.6	694.3	-322.9	791.1	0.00	0.00	
3,200.0	18.49	335.92	3,071.5	723.3	-335.9	822.9	0.00	0.00	
3,300.0	18.49	335.92	3,166.3	752.2	-348.8	854.6	0.00	0.00	
3,400.0	18.49	335.92	3,261.1	781.2	-361.7	886.3	0.00	0.00	
3,500.0	18.49	335.92	3,356.0	810.1	-374.7	918.0	0.00	0.00	
3,600.0	18.49	335.92	3,450.8	839.1	-387.6	949.7	0.00	0.00	
3,700.0	18.49	335.92	3,545.6	868.0	-400.6	981.4	0.00	0.00	
3,800.0	18.49	335.92	3,640.5	897.0	-413.5	1,013.2	0.00	0.00	
3,900.0	18.49	335.92	3,735.3	926.0	-426.4	1,044.9	0.00	0.00	
4,000.0	18.49	335.92	3,830.1	954.9	-439.4	1,076.6	0.00	0.00	
4,100.0	18.49	335.92	3,925.0	983.9	-452.3	1,108.3	0.00	0.00	
4,200.0	18.49	335.92	4,019.8	1,012.8	-465.3	1,140.0	0.00	0.00	
4,212.8	18.49	335.92	4,032.0	1,016.5	-466.9	1,144.1	0.00	0.00	Was G (TVD)
4,300.0	18.49	335.92	4,114.7	1,041.8	-478.2	1,171.7	0.00	0.00	
4,400.0	18.49	335.92	4,209.5	1,070.7	-491.1	1,203.4	0.00	0.00	
4,500.0	18.49	335.92	4,304.3	1,099.7	-504.1	1,235.2	0.00	0.00	
4,600.0	18.49	335.92	4,399.2	1,128.7	-517.0	1,266.9	0.00	0.00	

Cathedral Energy Services

Planning Report

Database:	EDM 5000.1 US Multi Users DB	Local Co-ordinate Reference:	Site S28-T4S-R96W (P28 496)(column pattern)
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 7804.0ft (Original Well Elev)
Project:	Double Willow	MD Reference:	WELL @ 7804.0ft (Original Well Elev)
Site:	S28-T4S-R96W (P28 496)(column pattern)	North Reference:	True
Well:	DW 8609A-28 (P28 496)	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
4,700.0	18.49	335.92	4,494.0	1,157.6	-530.0	1,298.6	0.00	0.00	
4,800.0	18.49	335.92	4,588.8	1,186.6	-542.9	1,330.3	0.00	0.00	
4,900.0	18.49	335.92	4,683.7	1,215.5	-555.8	1,362.0	0.00	0.00	
5,000.0	18.49	335.92	4,778.5	1,244.5	-568.8	1,393.7	0.00	0.00	
5,100.0	18.49	335.92	4,873.4	1,273.4	-581.7	1,425.5	0.00	0.00	
5,200.0	18.49	335.92	4,968.2	1,302.4	-594.7	1,457.2	0.00	0.00	
5,300.0	18.49	335.92	5,063.0	1,331.4	-607.6	1,488.9	0.00	0.00	
5,400.0	18.49	335.92	5,157.9	1,360.3	-620.5	1,520.6	0.00	0.00	
5,500.0	18.49	335.92	5,252.7	1,389.3	-633.5	1,552.3	0.00	0.00	
5,600.0	18.49	335.92	5,347.5	1,418.2	-646.4	1,584.0	0.00	0.00	
5,700.0	18.49	335.92	5,442.4	1,447.2	-659.4	1,615.7	0.00	0.00	
5,800.0	18.49	335.92	5,537.2	1,476.1	-672.3	1,647.5	0.00	0.00	
5,900.0	18.49	335.92	5,632.0	1,505.1	-685.2	1,679.2	0.00	0.00	
6,000.0	18.49	335.92	5,726.9	1,534.1	-698.2	1,710.9	0.00	0.00	
6,100.0	18.49	335.92	5,821.7	1,563.0	-711.1	1,742.6	0.00	0.00	
6,200.0	18.49	335.92	5,916.6	1,592.0	-724.1	1,774.3	0.00	0.00	
6,300.0	18.49	335.92	6,011.4	1,620.9	-737.0	1,806.0	0.00	0.00	
6,400.0	18.49	335.92	6,106.2	1,649.9	-749.9	1,837.8	0.00	0.00	
6,500.0	18.49	335.92	6,201.1	1,678.8	-762.9	1,869.5	0.00	0.00	
6,600.0	18.49	335.92	6,295.9	1,707.8	-775.8	1,901.2	0.00	0.00	
6,700.0	18.49	335.92	6,390.7	1,736.8	-788.8	1,932.9	0.00	0.00	
6,800.0	18.49	335.92	6,485.6	1,765.7	-801.7	1,964.6	0.00	0.00	
6,885.1	18.49	335.92	6,566.3	1,790.3	-812.7	1,991.6	0.00	0.00	Start Drop -3.00
6,900.0	18.04	335.92	6,580.4	1,794.6	-814.6	1,996.3	3.00	-3.00	
7,000.0	15.04	335.92	6,676.3	1,820.6	-826.2	2,024.7	3.00	-3.00	
7,100.0	12.04	335.92	6,773.5	1,842.0	-835.8	2,048.2	3.00	-3.00	
7,200.0	9.04	335.92	6,871.8	1,858.7	-843.2	2,066.5	3.00	-3.00	
7,300.0	6.04	335.92	6,970.9	1,870.7	-848.6	2,079.6	3.00	-3.00	
7,400.0	3.04	335.92	7,070.6	1,877.9	-851.8	2,087.5	3.00	-3.00	
7,461.5	1.20	335.92	7,132.0	1,880.0	-852.8	2,089.8	3.00	-3.00	WF (TVD)
7,500.0	0.04	335.92	7,170.5	1,880.4	-852.9	2,090.2	3.00	-3.00	
7,501.5	0.00	0.00	7,172.0	1,880.4	-852.9	2,090.2	3.00	-3.00	EOD; Inc=0° - TOG (TVD) - DW 8609A-28 P28
7,600.0	0.25	239.38	7,270.5	1,880.3	-853.1	2,090.2	0.25	0.25	
7,627.0	0.31	239.38	7,297.5	1,880.2	-853.2	2,090.2	0.25	0.25	
7,700.0	0.31	239.38	7,370.5	1,880.0	-853.6	2,090.1	0.00	0.00	
7,800.0	0.31	239.38	7,470.5	1,879.7	-854.0	2,090.1	0.00	0.00	
7,900.0	0.31	239.38	7,570.5	1,879.4	-854.5	2,090.0	0.00	0.00	
8,000.0	0.31	239.38	7,670.5	1,879.2	-855.0	2,089.9	0.00	0.00	
8,100.0	0.31	239.38	7,770.5	1,878.9	-855.5	2,089.9	0.00	0.00	
8,200.0	0.31	239.38	7,870.5	1,878.6	-855.9	2,089.8	0.00	0.00	
8,300.0	0.31	239.38	7,970.5	1,878.3	-856.4	2,089.8	0.00	0.00	
8,400.0	0.31	239.38	8,070.5	1,878.0	-856.9	2,089.7	0.00	0.00	
8,500.0	0.31	239.38	8,170.5	1,877.8	-857.3	2,089.7	0.00	0.00	
8,600.0	0.31	239.38	8,270.5	1,877.5	-857.8	2,089.6	0.00	0.00	
8,700.0	0.31	239.38	8,370.5	1,877.2	-858.3	2,089.5	0.00	0.00	
8,800.0	0.31	239.38	8,470.5	1,876.9	-858.8	2,089.5	0.00	0.00	
8,900.0	0.31	239.38	8,570.5	1,876.6	-859.2	2,089.4	0.00	0.00	
9,000.0	0.31	239.38	8,670.5	1,876.4	-859.7	2,089.4	0.00	0.00	
9,100.0	0.31	239.38	8,770.5	1,876.1	-860.2	2,089.3	0.00	0.00	
9,200.0	0.31	239.38	8,870.5	1,875.8	-860.6	2,089.3	0.00	0.00	
9,300.0	0.31	239.38	8,970.5	1,875.5	-861.1	2,089.2	0.00	0.00	
9,400.0	0.31	239.38	9,070.5	1,875.2	-861.6	2,089.1	0.00	0.00	

Cathedral Energy Services

Planning Report

Database:	EDM 5000.1 US Multi Users DB	Local Co-ordinate Reference:	Site S28-T4S-R96W (P28 496)(column pattern)
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 7804.0ft (Original Well Elev)
Project:	Double Willow	MD Reference:	WELL @ 7804.0ft (Original Well Elev)
Site:	S28-T4S-R96W (P28 496)(column pattern)	North Reference:	True
Well:	DW 8609A-28 (P28 496)	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
9,500.0	0.31	239.38	9,170.5	1,875.0	-862.1	2,089.1	0.00	0.00	
9,600.0	0.31	239.38	9,270.5	1,874.7	-862.5	2,089.0	0.00	0.00	
9,700.0	0.31	239.38	9,370.5	1,874.4	-863.0	2,089.0	0.00	0.00	
9,800.0	0.31	239.38	9,470.5	1,874.1	-863.5	2,088.9	0.00	0.00	
9,900.0	0.31	239.38	9,570.5	1,873.9	-863.9	2,088.9	0.00	0.00	
10,000.0	0.31	239.38	9,670.5	1,873.6	-864.4	2,088.8	0.00	0.00	
10,100.0	0.31	239.38	9,770.5	1,873.3	-864.9	2,088.7	0.00	0.00	
10,200.0	0.31	239.38	9,870.5	1,873.0	-865.4	2,088.7	0.00	0.00	
10,300.0	0.31	239.38	9,970.5	1,872.7	-865.8	2,088.6	0.00	0.00	
10,400.0	0.31	239.38	10,070.5	1,872.5	-866.3	2,088.6	0.00	0.00	
10,500.0	0.31	239.38	10,170.5	1,872.2	-866.8	2,088.5	0.00	0.00	
10,600.0	0.31	239.38	10,270.5	1,871.9	-867.2	2,088.5	0.00	0.00	
10,700.0	0.31	239.38	10,370.5	1,871.6	-867.7	2,088.4	0.00	0.00	
10,800.0	0.31	239.38	10,470.5	1,871.3	-868.2	2,088.3	0.00	0.00	
10,900.0	0.31	239.38	10,570.5	1,871.1	-868.7	2,088.3	0.00	0.00	
11,000.0	0.31	239.38	10,670.5	1,870.8	-869.1	2,088.2	0.00	0.00	
11,100.0	0.31	239.38	10,770.5	1,870.5	-869.6	2,088.2	0.00	0.00	
11,161.5	0.31	239.38	10,832.0	1,870.3	-869.9	2,088.1	0.00	0.00	Rins (TVD) - DW 8609A-28 P28 496 PBHL (Col
11,200.0	0.31	239.38	10,870.5	1,870.2	-870.1	2,088.1	0.00	0.00	
11,300.0	0.31	239.38	10,970.5	1,869.9	-870.5	2,088.1	0.00	0.00	
11,400.0	0.31	239.38	11,070.5	1,869.7	-871.0	2,088.0	0.00	0.00	
11,491.5	0.31	239.38	11,162.0	1,869.4	-871.4	2,087.9	0.00	0.00	Cozz (TVD)
11,500.0	0.31	239.38	11,170.5	1,869.4	-871.5	2,087.9	0.00	0.00	
11,600.0	0.31	239.38	11,270.5	1,869.1	-872.0	2,087.9	0.00	0.00	
11,681.5	0.31	239.38	11,352.0	1,868.9	-872.3	2,087.8	0.00	0.00	Corc (TVD)
11,700.0	0.31	239.38	11,370.5	1,868.8	-872.4	2,087.8	0.00	0.00	
11,800.0	0.31	239.38	11,470.5	1,868.6	-872.9	2,087.8	0.00	0.00	
11,900.0	0.31	239.38	11,570.5	1,868.3	-873.4	2,087.7	0.00	0.00	
11,961.5	0.31	239.38	11,632.0	1,868.1	-873.7	2,087.7	0.00	0.00	Sego (TVD)
12,000.0	0.31	239.38	11,670.5	1,868.0	-873.8	2,087.7	0.00	0.00	
12,100.0	0.31	239.38	11,770.5	1,867.7	-874.3	2,087.6	0.00	0.00	
12,161.5	0.31	239.38	11,832.0	1,867.5	-874.6	2,087.6	0.00	0.00	L Sego (TVD)
12,200.0	0.31	239.38	11,870.5	1,867.4	-874.8	2,087.5	0.00	0.00	
12,300.0	0.31	239.38	11,970.5	1,867.2	-875.3	2,087.5	0.00	0.00	
12,400.0	0.31	239.38	12,070.5	1,866.9	-875.7	2,087.4	0.00	0.00	
12,411.5	0.31	239.38	12,082.0	1,866.8	-875.8	2,087.4	0.00	0.00	Driller's TD @ 12411.5' MD
12,500.0	0.31	239.38	12,170.5	1,866.6	-876.2	2,087.4	0.00	0.00	
12,600.0	0.31	239.38	12,270.5	1,866.3	-876.7	2,087.3	0.00	0.00	
12,661.5	0.31	239.38	12,332.0	1,866.1	-877.0	2,087.3	0.00	0.00	Permit TD @ 12661.5' MD

Cathedral Energy Services

Planning Report

Database:	EDM 5000.1 US Multi Users DB	Local Co-ordinate Reference:	Site S28-T4S-R96W (P28 496)(column pattern)
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 7804.0ft (Original Well Elev)
Project:	Double Willow	MD Reference:	WELL @ 7804.0ft (Original Well Elev)
Site:	S28-T4S-R96W (P28 496)(column pattern)	North Reference:	True
Well:	DW 8609A-28 (P28 496)	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #1		

Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
DW 8609A-28 P28 496 I	0.00	0.00	10,832.0	1,870.3	-869.9	1,681,138.34	2,248,872.90	39° 40' 23.61 N	108° 10' 7.67 W
- plan hits target center									
- Rectangle (sides W30.0 H50.0 D0.0)									
DW 8609A-28 P28 496 ^	0.00	0.00	7,172.0	1,880.4	-852.9	1,681,147.87	2,248,890.14	39° 40' 23.71 N	108° 10' 7.46 W
- plan hits target center									
- Point									

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(ft)	(ft)			(°)	(°)	
132.0	132.0	Para Creek (TVD)				
432.1	432.0	Mahog Bench (TVD)				
492.3	492.0	Base B Groove (TVD)				
4,212.8	4,032.0	Was G (TVD)				
7,461.5	7,132.0	WF (TVD)				
7,501.5	7,172.0	TOG (TVD)				
11,161.5	10,832.0	Rlns (TVD)				
11,491.5	11,162.0	Cozz (TVD)				
11,681.5	11,352.0	Corc (TVD)				
11,961.5	11,632.0	Sego (TVD)				
12,161.5	11,832.0	L Sego (TVD)				

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(ft)	(ft)	+N/-S (ft)	+E/-W (ft)	
300.0	300.0	-28.0	-0.1	KOP @ 300' MD
916.4	905.7	62.0	-40.4	EOB; Inc=18.49°
6,885.1	6,566.3	1,790.3	-812.7	Start Drop -3.00
7,501.5	7,172.0	1,880.4	-852.9	EOD; Inc=0°
12,411.5	12,082.0	1,866.8	-875.8	Driller's TD @ 12411.5' MD
12,661.5	12,332.0	1,866.1	-877.0	Permit TD @ 12661.5' MD