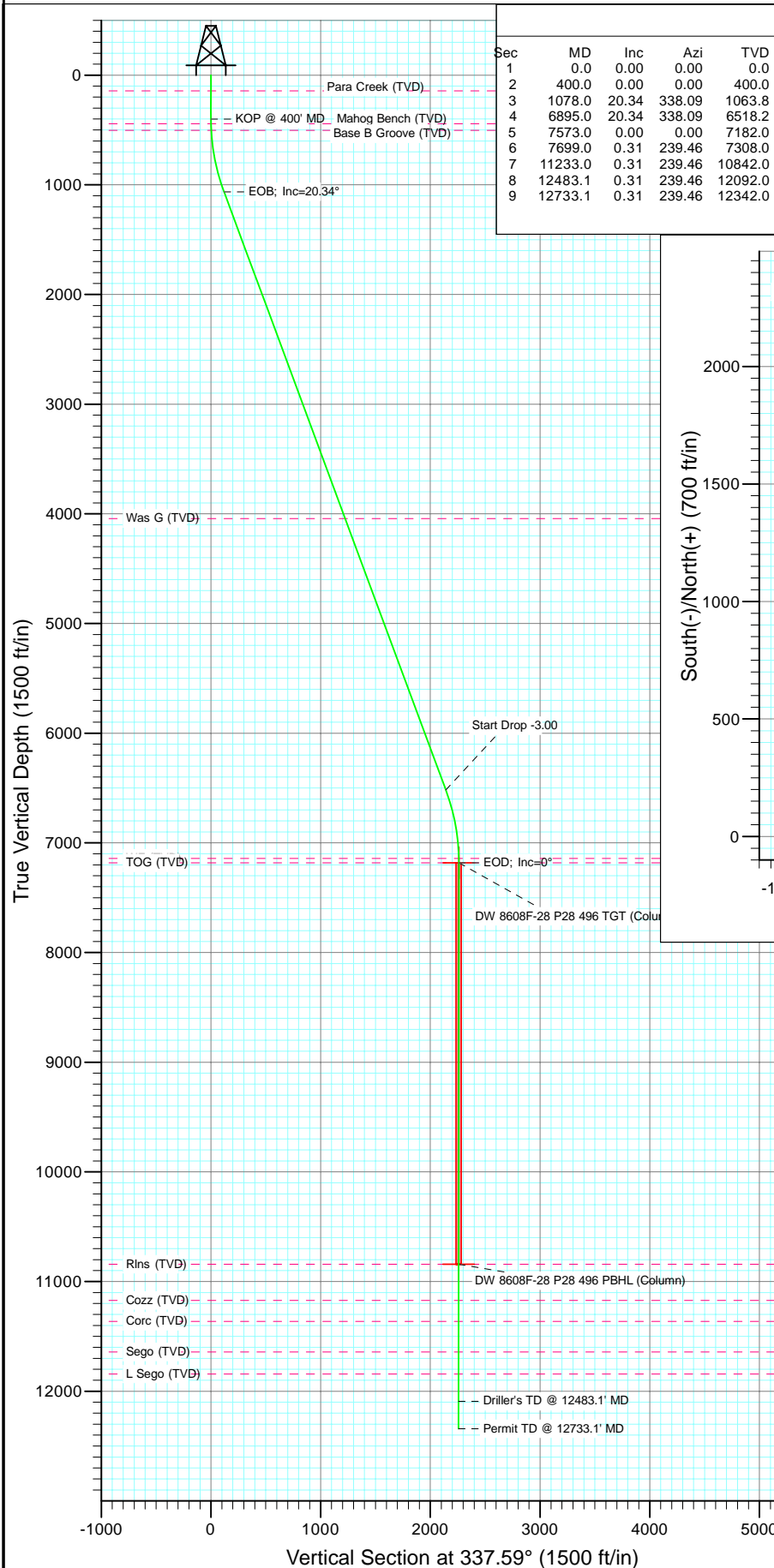
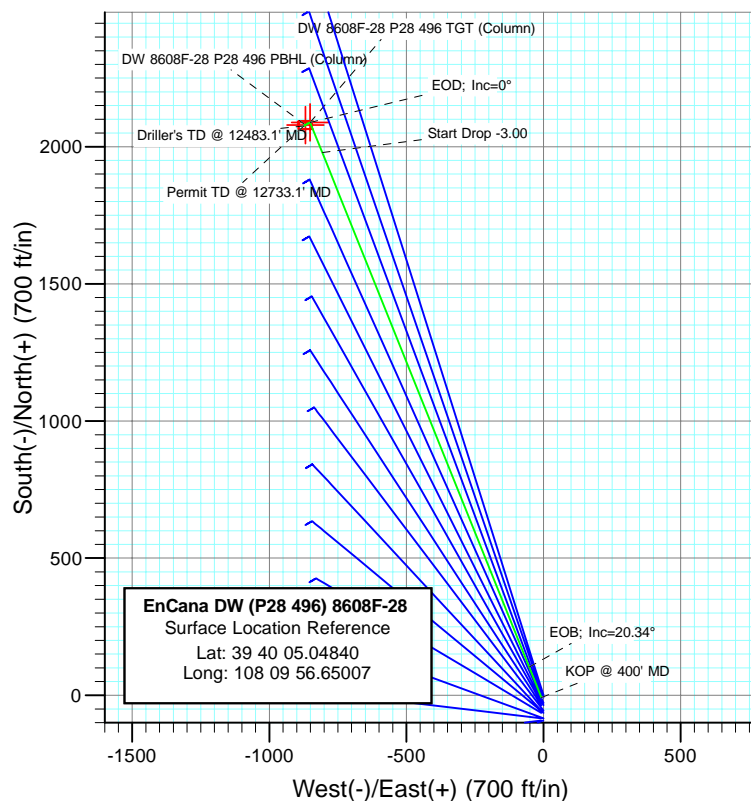




Project: Double Willow
Site: S28-T4S-R96W (P28 496)(column pattern)
Well: DW 8608F-28 (P28 496)
Wellbore: DD
Design: Plan #1



SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	-8.0	-8.0	0.00	0.00	0.0	
2	400.0	0.00	0.00	400.0	-8.0	-8.0	0.00	0.00	0.0	
3	1078.0	20.34	338.09	1063.8	102.5	-52.4	3.00	338.09	119.1	
4	6895.0	20.34	338.09	6518.2	1978.3	-806.9	0.00	0.00	2140.9	
5	7573.0	0.00	0.00	7182.0	2088.8	-851.3	3.00	180.00	2260.0	DW 8608F-28 P28 496 TGT (Column)
6	7699.0	0.31	239.46	7308.0	2088.6	-851.6	0.25	239.46	2259.9	
7	11233.0	0.31	239.46	10842.0	2078.8	-868.3	0.00	0.00	2257.2	DW 8608F-28 P28 496 PBHL (Column)
8	12483.1	0.31	239.46	12092.0	2075.3	-874.2	0.00	0.00	2256.2	
9	12733.1	0.31	239.46	12342.0	2074.6	-875.4	0.00	0.00	2256.0	



FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
142.0	142.0	Para Creek (TVD)
442.0	442.0	Mahog Bench (TVD)
502.0	502.0	Base B Groove (TVD)
4042.0	4254.2	Was G (TVD)
7142.0	7533.0	WF (TVD)
7182.0	7573.0	TOG (TVD)
10842.0	11233.0	Rlns (TVD)
11172.0	11563.0	Cozz (TVD)
11362.0	11753.0	Corc (TVD)
11642.0	12033.1	Sego (TVD)
11842.0	12233.1	L Sego (TVD)



Azimuths to True North
Magnetic North: 10.52°

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

Plan #1						
DW 8608F-28 (P28 496)						
WELL @ 7804.0ft (Original Well Elev)						
North American Datum 1983						
Site S28-T4S-R96W (P28 496)(column pattern), True North						
Type	Target	Azimuth	Origin	Type	N/S	E/W From TVD
Target	DW 8608F-28 P28 496 PBHL (Column)	337.59	S	-8.0		-8.0
Name	DW 8608F-28 P28 496 TGT (Column)	17182.0	2088.8	+N/-S		
DW 8608F-28 P28 496 PBHL (Column)	10842.0	2078.8	-868.339° 40'	25.77° N	108° 10'	7.44° W
			-868.339° 40'	25.67° N	108° 10'	7.65° 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 8608F-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 8608F-28 (P28 496)			
Well Position	+N/-S	-8.0 ft	Northing:	1,679,235.54 ft
	+E/-W	-8.0 ft	Easting:	2,249,679.32 ft
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	-8.0	-8.0	337.59

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	-8.0	-8.0	0.00	0.00	0.00	0.00	
400.0	0.00	0.00	400.0	-8.0	-8.0	0.00	0.00	0.00	0.00	
1,078.0	20.34	338.09	1,063.8	102.5	-52.4	3.00	3.00	0.00	338.09	
6,895.0	20.34	338.09	6,518.2	1,978.3	-806.9	0.00	0.00	0.00	0.00	
7,573.0	0.00	0.00	7,182.0	2,088.8	-851.3	3.00	-3.00	0.00	180.00	DW 8608F-28 P28 49
7,699.0	0.31	239.46	7,308.0	2,088.6	-851.6	0.25	0.25	-95.69	239.46	
11,233.0	0.31	239.46	10,842.0	2,078.8	-868.3	0.00	0.00	0.00	0.00	DW 8608F-28 P28 49
12,483.1	0.31	239.46	12,092.0	2,075.3	-874.2	0.00	0.00	0.00	0.00	
12,733.1	0.31	239.46	12,342.0	2,074.6	-875.4	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 8608F-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	-8.0	-8.0	0.0	0.00	0.00	
100.0	0.00	0.00	100.0	-8.0	-8.0	0.0	0.00	0.00	
142.0	0.00	0.00	142.0	-8.0	-8.0	0.0	0.00	0.00	Para Creek (TVD)
200.0	0.00	0.00	200.0	-8.0	-8.0	0.0	0.00	0.00	
300.0	0.00	0.00	300.0	-8.0	-8.0	0.0	0.00	0.00	
400.0	0.00	0.00	400.0	-8.0	-8.0	0.0	0.00	0.00	KOP @ 400' MD
442.0	1.26	338.09	442.0	-7.6	-8.2	0.5	3.00	3.00	Mahog Bench (TVD)
500.0	3.00	338.09	500.0	-5.6	-9.0	2.6	3.00	3.00	
502.0	3.06	338.09	502.0	-5.5	-9.0	2.7	3.00	3.00	Base B Groove (TVD)
600.0	6.00	338.09	599.6	1.7	-11.9	10.5	3.00	3.00	
700.0	9.00	338.09	698.8	13.8	-16.8	23.5	3.00	3.00	
800.0	12.00	338.09	797.1	30.7	-23.6	41.7	3.00	3.00	
900.0	15.00	338.09	894.3	52.4	-32.3	65.1	3.00	3.00	
1,000.0	18.00	338.09	990.2	78.7	-42.9	93.5	3.00	3.00	
1,078.0	20.34	338.09	1,063.8	102.5	-52.4	119.1	3.00	3.00	EOB; Inc=20.34°
1,100.0	20.34	338.09	1,084.5	109.6	-55.3	126.7	0.00	0.00	
1,200.0	20.34	338.09	1,178.2	141.8	-68.2	161.5	0.00	0.00	
1,300.0	20.34	338.09	1,272.0	174.1	-81.2	196.2	0.00	0.00	
1,400.0	20.34	338.09	1,365.8	206.3	-94.2	231.0	0.00	0.00	
1,500.0	20.34	338.09	1,459.5	238.6	-107.2	265.8	0.00	0.00	
1,600.0	20.34	338.09	1,553.3	270.8	-120.1	300.5	0.00	0.00	
1,700.0	20.34	338.09	1,647.1	303.1	-133.1	335.3	0.00	0.00	
1,800.0	20.34	338.09	1,740.8	335.3	-146.1	370.0	0.00	0.00	
1,900.0	20.34	338.09	1,834.6	367.6	-159.0	404.8	0.00	0.00	
2,000.0	20.34	338.09	1,928.4	399.8	-172.0	439.5	0.00	0.00	
2,100.0	20.34	338.09	2,022.1	432.1	-185.0	474.3	0.00	0.00	
2,200.0	20.34	338.09	2,115.9	464.3	-197.9	509.1	0.00	0.00	
2,300.0	20.34	338.09	2,209.7	496.6	-210.9	543.8	0.00	0.00	
2,400.0	20.34	338.09	2,303.4	528.8	-223.9	578.6	0.00	0.00	
2,500.0	20.34	338.09	2,397.2	561.1	-236.9	613.3	0.00	0.00	
2,600.0	20.34	338.09	2,491.0	593.3	-249.8	648.1	0.00	0.00	
2,700.0	20.34	338.09	2,584.7	625.5	-262.8	682.8	0.00	0.00	
2,800.0	20.34	338.09	2,678.5	657.8	-275.8	717.6	0.00	0.00	
2,900.0	20.34	338.09	2,772.2	690.0	-288.7	752.3	0.00	0.00	
3,000.0	20.34	338.09	2,866.0	722.3	-301.7	787.1	0.00	0.00	
3,100.0	20.34	338.09	2,959.8	754.5	-314.7	821.9	0.00	0.00	
3,200.0	20.34	338.09	3,053.5	786.8	-327.6	856.6	0.00	0.00	
3,300.0	20.34	338.09	3,147.3	819.0	-340.6	891.4	0.00	0.00	
3,400.0	20.34	338.09	3,241.1	851.3	-353.6	926.1	0.00	0.00	
3,500.0	20.34	338.09	3,334.8	883.5	-366.5	960.9	0.00	0.00	
3,600.0	20.34	338.09	3,428.6	915.8	-379.5	995.6	0.00	0.00	
3,700.0	20.34	338.09	3,522.4	948.0	-392.5	1,030.4	0.00	0.00	
3,800.0	20.34	338.09	3,616.1	980.3	-405.5	1,065.2	0.00	0.00	
3,900.0	20.34	338.09	3,709.9	1,012.5	-418.4	1,099.9	0.00	0.00	
4,000.0	20.34	338.09	3,803.7	1,044.8	-431.4	1,134.7	0.00	0.00	
4,100.0	20.34	338.09	3,897.4	1,077.0	-444.4	1,169.4	0.00	0.00	
4,200.0	20.34	338.09	3,991.2	1,109.3	-457.3	1,204.2	0.00	0.00	
4,254.2	20.34	338.09	4,042.0	1,126.7	-464.4	1,223.0	0.00	0.00	Was G (TVD)
4,300.0	20.34	338.09	4,085.0	1,141.5	-470.3	1,238.9	0.00	0.00	
4,400.0	20.34	338.09	4,178.7	1,173.8	-483.3	1,273.7	0.00	0.00	
4,500.0	20.34	338.09	4,272.5	1,206.0	-496.2	1,308.5	0.00	0.00	
4,600.0	20.34	338.09	4,366.3	1,238.3	-509.2	1,343.2	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 8608F-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	20.34	338.09	4,460.0	1,270.5	-522.2	1,378.0	0.00	0.00	
4,800.0	20.34	338.09	4,553.8	1,302.7	-535.1	1,412.7	0.00	0.00	
4,900.0	20.34	338.09	4,647.5	1,335.0	-548.1	1,447.5	0.00	0.00	
5,000.0	20.34	338.09	4,741.3	1,367.2	-561.1	1,482.2	0.00	0.00	
5,100.0	20.34	338.09	4,835.1	1,399.5	-574.1	1,517.0	0.00	0.00	
5,200.0	20.34	338.09	4,928.8	1,431.7	-587.0	1,551.7	0.00	0.00	
5,300.0	20.34	338.09	5,022.6	1,464.0	-600.0	1,586.5	0.00	0.00	
5,400.0	20.34	338.09	5,116.4	1,496.2	-613.0	1,621.3	0.00	0.00	
5,500.0	20.34	338.09	5,210.1	1,528.5	-625.9	1,656.0	0.00	0.00	
5,600.0	20.34	338.09	5,303.9	1,560.7	-638.9	1,690.8	0.00	0.00	
5,700.0	20.34	338.09	5,397.7	1,593.0	-651.9	1,725.5	0.00	0.00	
5,800.0	20.34	338.09	5,491.4	1,625.2	-664.8	1,760.3	0.00	0.00	
5,900.0	20.34	338.09	5,585.2	1,657.5	-677.8	1,795.0	0.00	0.00	
6,000.0	20.34	338.09	5,679.0	1,689.7	-690.8	1,829.8	0.00	0.00	
6,100.0	20.34	338.09	5,772.7	1,722.0	-703.7	1,864.6	0.00	0.00	
6,200.0	20.34	338.09	5,866.5	1,754.2	-716.7	1,899.3	0.00	0.00	
6,300.0	20.34	338.09	5,960.3	1,786.5	-729.7	1,934.1	0.00	0.00	
6,400.0	20.34	338.09	6,054.0	1,818.7	-742.7	1,968.8	0.00	0.00	
6,500.0	20.34	338.09	6,147.8	1,851.0	-755.6	2,003.6	0.00	0.00	
6,600.0	20.34	338.09	6,241.6	1,883.2	-768.6	2,038.3	0.00	0.00	
6,700.0	20.34	338.09	6,335.3	1,915.5	-781.6	2,073.1	0.00	0.00	
6,800.0	20.34	338.09	6,429.1	1,947.7	-794.5	2,107.9	0.00	0.00	
6,895.0	20.34	338.09	6,518.2	1,978.3	-806.9	2,140.9	0.00	0.00	Start Drop -3.00
6,900.0	20.19	338.09	6,522.9	1,979.9	-807.5	2,142.6	3.00	-3.00	
7,000.0	17.19	338.09	6,617.6	2,009.7	-819.5	2,174.6	3.00	-3.00	
7,100.0	14.19	338.09	6,713.8	2,034.8	-829.5	2,201.7	3.00	-3.00	
7,200.0	11.19	338.09	6,811.4	2,055.1	-837.7	2,223.6	3.00	-3.00	
7,300.0	8.19	338.09	6,909.9	2,070.7	-844.0	2,240.5	3.00	-3.00	
7,400.0	5.19	338.09	7,009.2	2,081.6	-848.4	2,252.1	3.00	-3.00	
7,500.0	2.19	338.09	7,109.0	2,087.5	-850.8	2,258.6	3.00	-3.00	
7,533.0	1.20	338.09	7,142.0	2,088.4	-851.1	2,259.5	3.00	-3.00	WF (TVD)
7,573.0	0.00	0.00	7,182.0	2,088.8	-851.3	2,260.0	3.00	-3.00	EOD; Inc=0° - TOG (TVD) - DW 8608F-28 P28
7,600.0	0.07	239.46	7,209.0	2,088.8	-851.3	2,259.9	0.25	0.25	
7,699.0	0.31	239.46	7,308.0	2,088.6	-851.6	2,259.9	0.25	0.25	
7,700.0	0.31	239.46	7,309.0	2,088.6	-851.6	2,259.9	0.00	0.00	
7,800.0	0.31	239.46	7,409.0	2,088.4	-852.1	2,259.8	0.00	0.00	
7,900.0	0.31	239.46	7,509.0	2,088.1	-852.5	2,259.7	0.00	0.00	
8,000.0	0.31	239.46	7,609.0	2,087.8	-853.0	2,259.7	0.00	0.00	
8,100.0	0.31	239.46	7,709.0	2,087.5	-853.5	2,259.6	0.00	0.00	
8,200.0	0.31	239.46	7,809.0	2,087.2	-854.0	2,259.5	0.00	0.00	
8,300.0	0.31	239.46	7,909.0	2,087.0	-854.4	2,259.4	0.00	0.00	
8,400.0	0.31	239.46	8,009.0	2,086.7	-854.9	2,259.4	0.00	0.00	
8,500.0	0.31	239.46	8,109.0	2,086.4	-855.4	2,259.3	0.00	0.00	
8,600.0	0.31	239.46	8,209.0	2,086.1	-855.9	2,259.2	0.00	0.00	
8,700.0	0.31	239.46	8,309.0	2,085.8	-856.3	2,259.1	0.00	0.00	
8,800.0	0.31	239.46	8,409.0	2,085.6	-856.8	2,259.0	0.00	0.00	
8,900.0	0.31	239.46	8,509.0	2,085.3	-857.3	2,259.0	0.00	0.00	
9,000.0	0.31	239.46	8,609.0	2,085.0	-857.7	2,258.9	0.00	0.00	
9,100.0	0.31	239.46	8,709.0	2,084.7	-858.2	2,258.8	0.00	0.00	
9,200.0	0.31	239.46	8,809.0	2,084.4	-858.7	2,258.7	0.00	0.00	
9,300.0	0.31	239.46	8,909.0	2,084.2	-859.2	2,258.7	0.00	0.00	
9,400.0	0.31	239.46	9,009.0	2,083.9	-859.6	2,258.6	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 8608F-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	239.46	9,109.0	2,083.6	-860.1	2,258.5	0.00	0.00	
9,600.0	0.31	239.46	9,209.0	2,083.3	-860.6	2,258.4	0.00	0.00	
9,700.0	0.31	239.46	9,309.0	2,083.1	-861.1	2,258.3	0.00	0.00	
9,800.0	0.31	239.46	9,409.0	2,082.8	-861.5	2,258.3	0.00	0.00	
9,900.0	0.31	239.46	9,509.0	2,082.5	-862.0	2,258.2	0.00	0.00	
10,000.0	0.31	239.46	9,609.0	2,082.2	-862.5	2,258.1	0.00	0.00	
10,100.0	0.31	239.46	9,709.0	2,081.9	-863.0	2,258.0	0.00	0.00	
10,200.0	0.31	239.46	9,809.0	2,081.7	-863.4	2,258.0	0.00	0.00	
10,300.0	0.31	239.46	9,909.0	2,081.4	-863.9	2,257.9	0.00	0.00	
10,400.0	0.31	239.46	10,009.0	2,081.1	-864.4	2,257.8	0.00	0.00	
10,500.0	0.31	239.46	10,109.0	2,080.8	-864.8	2,257.7	0.00	0.00	
10,600.0	0.31	239.46	10,209.0	2,080.5	-865.3	2,257.6	0.00	0.00	
10,700.0	0.31	239.46	10,309.0	2,080.3	-865.8	2,257.6	0.00	0.00	
10,800.0	0.31	239.46	10,409.0	2,080.0	-866.3	2,257.5	0.00	0.00	
10,900.0	0.31	239.46	10,509.0	2,079.7	-866.7	2,257.4	0.00	0.00	
11,000.0	0.31	239.46	10,609.0	2,079.4	-867.2	2,257.3	0.00	0.00	
11,100.0	0.31	239.46	10,709.0	2,079.1	-867.7	2,257.3	0.00	0.00	
11,200.0	0.31	239.46	10,809.0	2,078.9	-868.2	2,257.2	0.00	0.00	
11,233.0	0.31	239.46	10,842.0	2,078.8	-868.3	2,257.2	0.00	0.00	Rins (TVD) - DW 8608F-28 P28 496 PBHL (Col
11,300.0	0.31	239.46	10,909.0	2,078.6	-868.6	2,257.1	0.00	0.00	
11,400.0	0.31	239.46	11,009.0	2,078.3	-869.1	2,257.0	0.00	0.00	
11,500.0	0.31	239.46	11,109.0	2,078.0	-869.6	2,256.9	0.00	0.00	
11,563.0	0.31	239.46	11,172.0	2,077.8	-869.9	2,256.9	0.00	0.00	Cozz (TVD)
11,600.0	0.31	239.46	11,209.0	2,077.7	-870.1	2,256.9	0.00	0.00	
11,700.0	0.31	239.46	11,309.0	2,077.5	-870.5	2,256.8	0.00	0.00	
11,753.0	0.31	239.46	11,362.0	2,077.3	-870.8	2,256.7	0.00	0.00	Corc (TVD)
11,800.0	0.31	239.46	11,408.9	2,077.2	-871.0	2,256.7	0.00	0.00	
11,900.0	0.31	239.46	11,508.9	2,076.9	-871.5	2,256.6	0.00	0.00	
12,000.0	0.31	239.46	11,608.9	2,076.6	-871.9	2,256.6	0.00	0.00	
12,033.1	0.31	239.46	11,642.0	2,076.5	-872.1	2,256.5	0.00	0.00	Sego (TVD)
12,100.0	0.31	239.46	11,708.9	2,076.3	-872.4	2,256.5	0.00	0.00	
12,200.0	0.31	239.46	11,808.9	2,076.1	-872.9	2,256.4	0.00	0.00	
12,233.1	0.31	239.46	11,842.0	2,076.0	-873.1	2,256.4	0.00	0.00	L Sego (TVD)
12,300.0	0.31	239.46	11,908.9	2,075.8	-873.4	2,256.3	0.00	0.00	
12,400.0	0.31	239.46	12,008.9	2,075.5	-873.8	2,256.2	0.00	0.00	
12,483.1	0.31	239.46	12,092.0	2,075.3	-874.2	2,256.2	0.00	0.00	Driller's TD @ 12483.1' MD
12,500.0	0.31	239.46	12,108.9	2,075.2	-874.3	2,256.2	0.00	0.00	
12,600.0	0.31	239.46	12,208.9	2,075.0	-874.8	2,256.1	0.00	0.00	
12,700.0	0.31	239.46	12,308.9	2,074.7	-875.3	2,256.0	0.00	0.00	
12,733.1	0.31	239.46	12,342.0	2,074.6	-875.4	2,256.0	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 8608F-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 8608F-28 P28 496 I - plan hits target center - Rectangle (sides W30.0 H50.0 D0.0)	0.00	0.00	10,842.0	2,078.8	-868.3	1,681,346.64	2,248,880.59	39° 40' 25.67 N	108° 10' 7.65 W
DW 8608F-28 P28 496 1 - plan hits target center - Point	0.00	0.00	7,182.0	2,088.8	-851.3	1,681,356.18	2,248,897.90	39° 40' 25.77 N	108° 10' 7.44 W

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(ft)	(ft)			(°)	(°)	
142.0	142.0	Para Creek (TVD)				
442.0	442.0	Mahog Bench (TVD)				
502.0	502.0	Base B Groove (TVD)				
4,254.2	4,042.0	Was G (TVD)				
7,533.0	7,142.0	WF (TVD)				
7,573.0	7,182.0	TOG (TVD)				
11,233.0	10,842.0	Rlns (TVD)				
11,563.0	11,172.0	Cozz (TVD)				
11,753.0	11,362.0	Corc (TVD)				
12,033.1	11,642.0	Sego (TVD)				
12,233.1	11,842.0	L Sego (TVD)				

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(ft)	(ft)	+N/-S (ft)	+E/-W (ft)	
400.0	400.0	-8.0	-8.0	KOP @ 400' MD
1,078.0	1,063.8	102.5	-52.4	EOB; Inc=20.34°
6,895.0	6,518.2	1,978.3	-806.9	Start Drop -3.00
7,573.0	7,182.0	2,088.8	-851.3	EOD; Inc=0°
12,483.1	12,092.0	2,075.3	-874.2	Driller's TD @ 12483.1' MD
12,733.1	12,342.0	2,074.6	-875.4	Permit TD @ 12733.1' MD