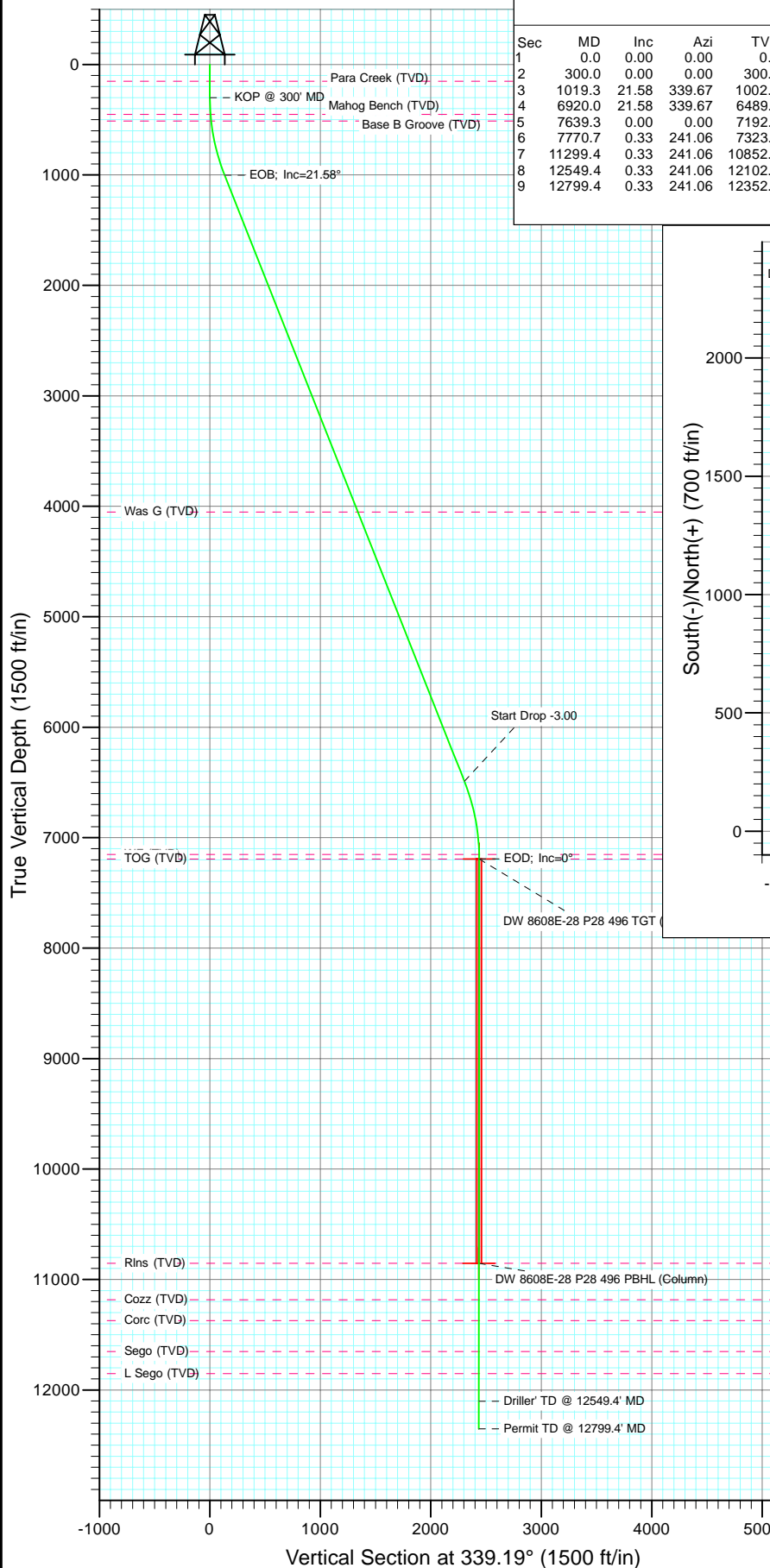
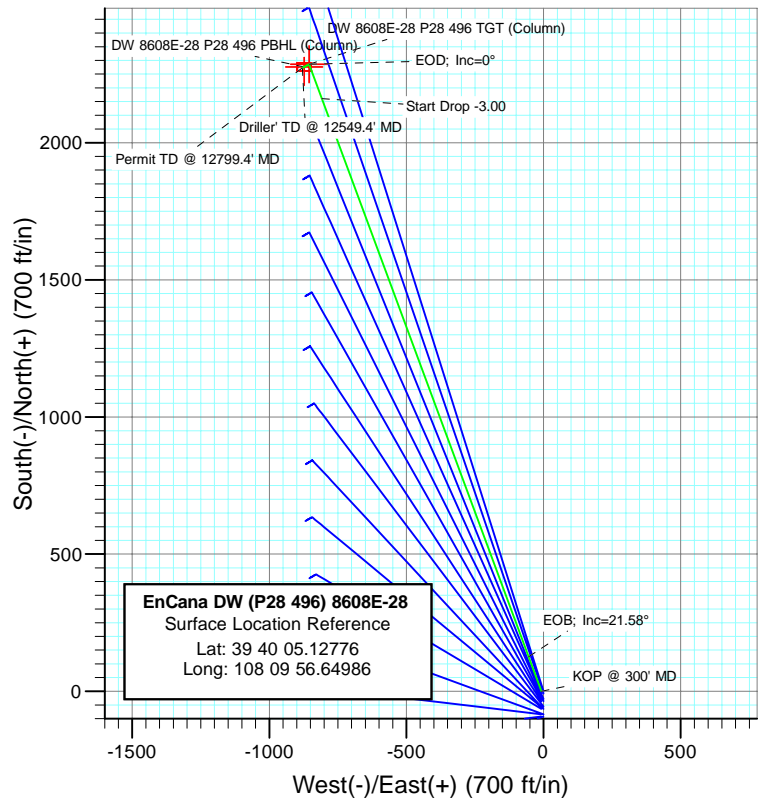




Project: Double Willow
Site: S28-T4S-R96W (P28 496)(column pattern)
Well: DW 8608E-28 (P28 496)
Wellbore: DD
Design: Plan #1



SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	-8.0	0.00	0.00	0.0	
2	300.0	0.00	0.00	300.0	0.0	-8.0	0.00	0.00	0.0	
3	1019.3	21.58	339.67	1002.4	125.6	-54.5	3.00	339.67	133.9	
4	6920.0	21.58	339.67	6489.6	2160.5	-808.5	0.00	0.00	2303.9	
5	7639.3	0.00	0.00	7192.0	2286.0	-855.0	3.00	180.00	2437.8	DW 8608E-28 P28 496 TGT (Column)
6	7770.7	0.33	241.06	7323.4	2285.9	-855.3	0.25	241.06	2437.7	
7	11299.4	0.33	241.06	10852.0	2276.1	-873.0	0.00	0.00	2434.9	DW 8608E-28 P28 496 PBHL (Column)
8	12549.4	0.33	241.06	12102.0	2272.6	-879.3	0.00	0.00	2433.9	
9	12799.4	0.33	241.06	12352.0	2271.9	-880.5	0.00	0.00	2433.7	



EnCana DW (P28 496) 8608E-28
Surface Location Reference
Lat: 39 40 05.12776
Long: 108 09 56.64986

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
152.0	152.0	Para Creek (TVD)
452.0	452.2	Mahog Bench (TVD)
512.0	512.4	Base B Groove (TVD)
4052.0	4298.7	Was G (TVD)
7152.0	7599.3	WF (TVD)
7192.0	7639.3	TOG (TVD)
10852.0	11299.4	Rlns (TVD)
11182.0	11629.4	Cozz (TVD)
11372.0	11819.4	Corc (TVD)
11652.0	12099.4	Sego (TVD)
11852.0	12299.4	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 8608E-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 8608E-28 P28 496 PBHL (Column)	339.19	Slot	0.0	-8.0	0.0
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	
DW 8608E-28 P28 496 TGT (Column)	7192.0	2286.0	-855.039° 40'	27.72 N	108° 10' 7.48 W	
DW 8608E-28 P28 496 PBHL (Column)	10852.0	2276.1	-873.039° 40'	27.62 N	108° 10' 7.71 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 8608E-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 8608E-28 (P28 496)			
Well Position	+N/-S	0.0 ft	Northing:	1,679,243.56 ft
	+E/-W	-8.0 ft	Easting:	2,249,679.57 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	0.0	-8.0	339.19

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	-8.0	0.00	0.00	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	-8.0	0.00	0.00	0.00	0.00	
1,019.3	21.58	339.67	1,002.4	125.6	-54.5	3.00	3.00	0.00	339.67	
6,920.0	21.58	339.67	6,489.6	2,160.5	-808.5	0.00	0.00	0.00	0.00	
7,639.3	0.00	0.00	7,192.0	2,286.0	-855.0	3.00	-3.00	0.00	180.00	DW 8608E-28 P28 49
7,770.7	0.33	241.06	7,323.4	2,285.9	-855.3	0.25	0.25	-90.53	241.06	
11,299.4	0.33	241.06	10,852.0	2,276.1	-873.0	0.00	0.00	0.00	0.00	DW 8608E-28 P28 49
12,549.4	0.33	241.06	12,102.0	2,272.6	-879.3	0.00	0.00	0.00	0.00	
12,799.4	0.33	241.06	12,352.0	2,271.9	-880.5	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 8608E-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	0.0	-8.0	0.0	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	-8.0	0.0	0.00	0.00	
152.0	0.00	0.00	152.0	0.0	-8.0	0.0	0.00	0.00	Para Creek (TVD)
200.0	0.00	0.00	200.0	0.0	-8.0	0.0	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	-8.0	0.0	0.00	0.00	KOP @ 300' MD
400.0	3.00	339.67	400.0	2.5	-8.9	2.6	3.00	3.00	
452.2	4.56	339.67	452.0	5.7	-10.1	6.1	3.00	3.00	Mahog Bench (TVD)
500.0	6.00	339.67	499.6	9.8	-11.6	10.5	3.00	3.00	
512.4	6.37	339.67	512.0	11.1	-12.1	11.8	3.00	3.00	Base B Groove (TVD)
600.0	9.00	339.67	598.8	22.1	-16.1	23.5	3.00	3.00	
700.0	12.00	339.67	697.1	39.2	-22.5	41.7	3.00	3.00	
800.0	15.00	339.67	794.3	61.1	-30.6	65.1	3.00	3.00	
900.0	18.00	339.67	890.2	87.7	-40.5	93.5	3.00	3.00	
1,000.0	21.00	339.67	984.4	119.0	-52.0	126.8	3.00	3.00	
1,019.3	21.58	339.67	1,002.4	125.6	-54.5	133.8	3.00	3.00	EOB; Inc=21.58°
1,100.0	21.58	339.67	1,077.5	153.4	-64.8	163.5	0.00	0.00	
1,200.0	21.58	339.67	1,170.5	187.9	-77.6	200.3	0.00	0.00	
1,300.0	21.58	339.67	1,263.4	222.4	-90.3	237.1	0.00	0.00	
1,400.0	21.58	339.67	1,356.4	256.8	-103.1	273.9	0.00	0.00	
1,500.0	21.58	339.67	1,449.4	291.3	-115.9	310.6	0.00	0.00	
1,600.0	21.58	339.67	1,542.4	325.8	-128.7	347.4	0.00	0.00	
1,700.0	21.58	339.67	1,635.4	360.3	-141.5	384.2	0.00	0.00	
1,800.0	21.58	339.67	1,728.4	394.8	-154.2	421.0	0.00	0.00	
1,900.0	21.58	339.67	1,821.4	429.3	-167.0	457.7	0.00	0.00	
2,000.0	21.58	339.67	1,914.4	463.8	-179.8	494.5	0.00	0.00	
2,100.0	21.58	339.67	2,007.4	498.3	-192.6	531.3	0.00	0.00	
2,200.0	21.58	339.67	2,100.4	532.7	-205.3	568.1	0.00	0.00	
2,300.0	21.58	339.67	2,193.4	567.2	-218.1	604.9	0.00	0.00	
2,400.0	21.58	339.67	2,286.3	601.7	-230.9	641.6	0.00	0.00	
2,500.0	21.58	339.67	2,379.3	636.2	-243.7	678.4	0.00	0.00	
2,600.0	21.58	339.67	2,472.3	670.7	-256.5	715.2	0.00	0.00	
2,700.0	21.58	339.67	2,565.3	705.2	-269.2	752.0	0.00	0.00	
2,800.0	21.58	339.67	2,658.3	739.7	-282.0	788.7	0.00	0.00	
2,900.0	21.58	339.67	2,751.3	774.1	-294.8	825.5	0.00	0.00	
3,000.0	21.58	339.67	2,844.3	808.6	-307.6	862.3	0.00	0.00	
3,100.0	21.58	339.67	2,937.3	843.1	-320.3	899.1	0.00	0.00	
3,200.0	21.58	339.67	3,030.3	877.6	-333.1	935.8	0.00	0.00	
3,300.0	21.58	339.67	3,123.3	912.1	-345.9	972.6	0.00	0.00	
3,400.0	21.58	339.67	3,216.3	946.6	-358.7	1,009.4	0.00	0.00	
3,500.0	21.58	339.67	3,309.3	981.1	-371.5	1,046.2	0.00	0.00	
3,600.0	21.58	339.67	3,402.2	1,015.6	-384.2	1,082.9	0.00	0.00	
3,700.0	21.58	339.67	3,495.2	1,050.0	-397.0	1,119.7	0.00	0.00	
3,800.0	21.58	339.67	3,588.2	1,084.5	-409.8	1,156.5	0.00	0.00	
3,900.0	21.58	339.67	3,681.2	1,119.0	-422.6	1,193.3	0.00	0.00	
4,000.0	21.58	339.67	3,774.2	1,153.5	-435.3	1,230.1	0.00	0.00	
4,100.0	21.58	339.67	3,867.2	1,188.0	-448.1	1,266.8	0.00	0.00	
4,200.0	21.58	339.67	3,960.2	1,222.5	-460.9	1,303.6	0.00	0.00	
4,298.7	21.58	339.67	4,052.0	1,256.5	-473.5	1,339.9	0.00	0.00	Was G (TVD)
4,300.0	21.58	339.67	4,053.2	1,257.0	-473.7	1,340.4	0.00	0.00	
4,400.0	21.58	339.67	4,146.2	1,291.4	-486.5	1,377.2	0.00	0.00	
4,500.0	21.58	339.67	4,239.2	1,325.9	-499.2	1,413.9	0.00	0.00	
4,600.0	21.58	339.67	4,332.2	1,360.4	-512.0	1,450.7	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 8608E-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	21.58	339.67	4,425.1	1,394.9	-524.8	1,487.5	0.00	0.00	
4,800.0	21.58	339.67	4,518.1	1,429.4	-537.6	1,524.3	0.00	0.00	
4,900.0	21.58	339.67	4,611.1	1,463.9	-550.3	1,561.0	0.00	0.00	
5,000.0	21.58	339.67	4,704.1	1,498.4	-563.1	1,597.8	0.00	0.00	
5,100.0	21.58	339.67	4,797.1	1,532.9	-575.9	1,634.6	0.00	0.00	
5,200.0	21.58	339.67	4,890.1	1,567.3	-588.7	1,671.4	0.00	0.00	
5,300.0	21.58	339.67	4,983.1	1,601.8	-601.5	1,708.1	0.00	0.00	
5,400.0	21.58	339.67	5,076.1	1,636.3	-614.2	1,744.9	0.00	0.00	
5,500.0	21.58	339.67	5,169.1	1,670.8	-627.0	1,781.7	0.00	0.00	
5,600.0	21.58	339.67	5,262.1	1,705.3	-639.8	1,818.5	0.00	0.00	
5,700.0	21.58	339.67	5,355.1	1,739.8	-652.6	1,855.3	0.00	0.00	
5,800.0	21.58	339.67	5,448.1	1,774.3	-665.4	1,892.0	0.00	0.00	
5,900.0	21.58	339.67	5,541.0	1,808.7	-678.1	1,928.8	0.00	0.00	
6,000.0	21.58	339.67	5,634.0	1,843.2	-690.9	1,965.6	0.00	0.00	
6,100.0	21.58	339.67	5,727.0	1,877.7	-703.7	2,002.4	0.00	0.00	
6,200.0	21.58	339.67	5,820.0	1,912.2	-716.5	2,039.1	0.00	0.00	
6,300.0	21.58	339.67	5,913.0	1,946.7	-729.2	2,075.9	0.00	0.00	
6,400.0	21.58	339.67	6,006.0	1,981.2	-742.0	2,112.7	0.00	0.00	
6,500.0	21.58	339.67	6,099.0	2,015.7	-754.8	2,149.5	0.00	0.00	
6,600.0	21.58	339.67	6,192.0	2,050.2	-767.6	2,186.2	0.00	0.00	
6,700.0	21.58	339.67	6,285.0	2,084.6	-780.4	2,223.0	0.00	0.00	
6,800.0	21.58	339.67	6,378.0	2,119.1	-793.1	2,259.8	0.00	0.00	
6,900.0	21.58	339.67	6,471.0	2,153.6	-805.9	2,296.6	0.00	0.00	
6,920.0	21.58	339.67	6,489.6	2,160.5	-808.5	2,303.9	0.00	0.00	Start Drop -3.00
7,000.0	19.18	339.67	6,564.5	2,186.6	-818.1	2,331.8	3.00	-3.00	
7,100.0	16.18	339.67	6,659.8	2,215.1	-828.7	2,362.1	3.00	-3.00	
7,200.0	13.18	339.67	6,756.5	2,238.9	-837.5	2,387.5	3.00	-3.00	
7,300.0	10.18	339.67	6,854.5	2,257.9	-844.5	2,407.7	3.00	-3.00	
7,400.0	7.18	339.67	6,953.3	2,272.0	-849.8	2,422.8	3.00	-3.00	
7,500.0	4.18	339.67	7,052.8	2,281.3	-853.2	2,432.7	3.00	-3.00	
7,599.3	1.20	339.67	7,152.0	2,285.7	-854.8	2,437.4	3.00	-3.00	WF (TVD)
7,600.0	1.18	339.67	7,152.7	2,285.7	-854.8	2,437.4	3.00	-3.00	
7,639.3	0.00	0.00	7,192.0	2,286.0	-855.0	2,437.8	3.00	-3.00	EOD; Inc=0° - TOG (TVD) - DW 8608E-28 P28
7,700.0	0.15	241.06	7,252.7	2,286.0	-855.0	2,437.8	0.25	0.25	
7,770.7	0.33	241.06	7,323.4	2,285.9	-855.3	2,437.7	0.25	0.25	
7,800.0	0.33	241.06	7,352.7	2,285.8	-855.4	2,437.7	0.00	0.00	
7,900.0	0.33	241.06	7,452.7	2,285.5	-856.0	2,437.6	0.00	0.00	
8,000.0	0.33	241.06	7,552.7	2,285.2	-856.5	2,437.6	0.00	0.00	
8,100.0	0.33	241.06	7,652.7	2,284.9	-857.0	2,437.5	0.00	0.00	
8,200.0	0.33	241.06	7,752.7	2,284.7	-857.5	2,437.4	0.00	0.00	
8,300.0	0.33	241.06	7,852.7	2,284.4	-858.0	2,437.3	0.00	0.00	
8,400.0	0.33	241.06	7,952.7	2,284.1	-858.5	2,437.2	0.00	0.00	
8,500.0	0.33	241.06	8,052.7	2,283.8	-859.0	2,437.1	0.00	0.00	
8,600.0	0.33	241.06	8,152.7	2,283.6	-859.5	2,437.1	0.00	0.00	
8,700.0	0.33	241.06	8,252.7	2,283.3	-860.0	2,437.0	0.00	0.00	
8,800.0	0.33	241.06	8,352.7	2,283.0	-860.5	2,436.9	0.00	0.00	
8,900.0	0.33	241.06	8,452.7	2,282.7	-861.0	2,436.8	0.00	0.00	
9,000.0	0.33	241.06	8,552.6	2,282.5	-861.5	2,436.7	0.00	0.00	
9,100.0	0.33	241.06	8,652.6	2,282.2	-862.0	2,436.7	0.00	0.00	
9,200.0	0.33	241.06	8,752.6	2,281.9	-862.5	2,436.6	0.00	0.00	
9,300.0	0.33	241.06	8,852.6	2,281.6	-863.0	2,436.5	0.00	0.00	
9,400.0	0.33	241.06	8,952.6	2,281.3	-863.5	2,436.4	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 8608E-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	0.33	241.06	9,052.6	2,281.1	-864.0	2,436.3	0.00	0.00	
9,600.0	0.33	241.06	9,152.6	2,280.8	-864.5	2,436.3	0.00	0.00	
9,700.0	0.33	241.06	9,252.6	2,280.5	-865.0	2,436.2	0.00	0.00	
9,800.0	0.33	241.06	9,352.6	2,280.2	-865.5	2,436.1	0.00	0.00	
9,900.0	0.33	241.06	9,452.6	2,280.0	-866.0	2,436.0	0.00	0.00	
10,000.0	0.33	241.06	9,552.6	2,279.7	-866.5	2,435.9	0.00	0.00	
10,100.0	0.33	241.06	9,652.6	2,279.4	-867.0	2,435.8	0.00	0.00	
10,200.0	0.33	241.06	9,752.6	2,279.1	-867.5	2,435.8	0.00	0.00	
10,300.0	0.33	241.06	9,852.6	2,278.8	-868.0	2,435.7	0.00	0.00	
10,400.0	0.33	241.06	9,952.6	2,278.6	-868.5	2,435.6	0.00	0.00	
10,500.0	0.33	241.06	10,052.6	2,278.3	-869.0	2,435.5	0.00	0.00	
10,600.0	0.33	241.06	10,152.6	2,278.0	-869.5	2,435.4	0.00	0.00	
10,700.0	0.33	241.06	10,252.6	2,277.7	-870.0	2,435.4	0.00	0.00	
10,800.0	0.33	241.06	10,352.6	2,277.5	-870.5	2,435.3	0.00	0.00	
10,900.0	0.33	241.06	10,452.6	2,277.2	-871.0	2,435.2	0.00	0.00	
11,000.0	0.33	241.06	10,552.6	2,276.9	-871.5	2,435.1	0.00	0.00	
11,100.0	0.33	241.06	10,652.6	2,276.6	-872.0	2,435.0	0.00	0.00	
11,200.0	0.33	241.06	10,752.6	2,276.4	-872.5	2,435.0	0.00	0.00	
11,299.4	0.33	241.06	10,852.0	2,276.1	-873.0	2,434.9	0.00	0.00	Rins (TVD) - DW 8608E-28 P28 496 PBHL (Col
11,300.0	0.33	241.06	10,852.6	2,276.1	-873.0	2,434.9	0.00	0.00	
11,400.0	0.33	241.06	10,952.6	2,275.8	-873.5	2,434.8	0.00	0.00	
11,500.0	0.33	241.06	11,052.6	2,275.5	-874.0	2,434.7	0.00	0.00	
11,600.0	0.33	241.06	11,152.6	2,275.2	-874.5	2,434.6	0.00	0.00	
11,629.4	0.33	241.06	11,182.0	2,275.2	-874.7	2,434.6	0.00	0.00	Cozz (TVD)
11,700.0	0.33	241.06	11,252.6	2,275.0	-875.0	2,434.6	0.00	0.00	
11,800.0	0.33	241.06	11,352.6	2,274.7	-875.5	2,434.5	0.00	0.00	
11,819.4	0.33	241.06	11,372.0	2,274.6	-875.6	2,434.5	0.00	0.00	Corc (TVD)
11,900.0	0.33	241.06	11,452.6	2,274.4	-876.0	2,434.4	0.00	0.00	
12,000.0	0.33	241.06	11,552.6	2,274.1	-876.5	2,434.3	0.00	0.00	
12,099.4	0.33	241.06	11,652.0	2,273.9	-877.0	2,434.2	0.00	0.00	Sego (TVD)
12,100.0	0.33	241.06	11,652.6	2,273.9	-877.0	2,434.2	0.00	0.00	
12,200.0	0.33	241.06	11,752.6	2,273.6	-877.5	2,434.1	0.00	0.00	
12,299.4	0.33	241.06	11,852.0	2,273.3	-878.0	2,434.1	0.00	0.00	L Sego (TVD)
12,300.0	0.33	241.06	11,852.6	2,273.3	-878.0	2,434.1	0.00	0.00	
12,400.0	0.33	241.06	11,952.6	2,273.0	-878.5	2,434.0	0.00	0.00	
12,500.0	0.33	241.06	12,052.6	2,272.7	-879.0	2,433.9	0.00	0.00	
12,549.4	0.33	241.06	12,102.0	2,272.6	-879.3	2,433.9	0.00	0.00	Driller' TD @ 12549.4' MD
12,600.0	0.33	241.06	12,152.6	2,272.5	-879.5	2,433.8	0.00	0.00	
12,700.0	0.33	241.06	12,252.6	2,272.2	-880.0	2,433.7	0.00	0.00	
12,799.4	0.33	241.06	12,352.0	2,271.9	-880.5	2,433.7	0.00	0.00	Permit TD @ 12799.4' 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 8608E-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 8608E-28 P28 496 - - plan hits target center - Point	0.00	0.00	7,192.0	2,286.0	-855.0	1,681,553.44	2,248,900.01	39° 40' 27.72 N	108° 10' 7.48 W
DW 8608E-28 P28 496 I - plan hits target center - Rectangle (sides W30.0 H50.0 D0.0)	0.00	0.00	10,852.0	2,276.1	-873.0	1,681,544.00	2,248,881.69	39° 40' 27.62 N	108° 10' 7.71 W

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(ft)	(ft)			(°)	(°)	
152.0	152.0	Para Creek (TVD)				
452.2	452.0	Mahog Bench (TVD)				
512.4	512.0	Base B Groove (TVD)				
4,298.7	4,052.0	Was G (TVD)				
7,599.3	7,152.0	WF (TVD)				
7,639.3	7,192.0	TOG (TVD)				
11,299.4	10,852.0	Rlns (TVD)				
11,629.4	11,182.0	Cozz (TVD)				
11,819.4	11,372.0	Corc (TVD)				
12,099.4	11,652.0	Sego (TVD)				
12,299.4	11,852.0	L Sego (TVD)				

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(ft)	(ft)	+N/-S (ft)	+E/-W (ft)	
300.0	300.0	0.0	-8.0	KOP @ 300' MD
1,019.3	1,002.4	125.6	-54.5	EOB; Inc=21.58°
6,920.0	6,489.6	2,160.5	-808.5	Start Drop -3.00
7,639.3	7,192.0	2,286.0	-855.0	EOD; Inc=0°
12,549.4	12,102.0	2,272.6	-879.3	Driller' TD @ 12549.4' MD
12,799.4	12,352.0	2,271.9	-880.5	Permit TD @ 12799.4' MD