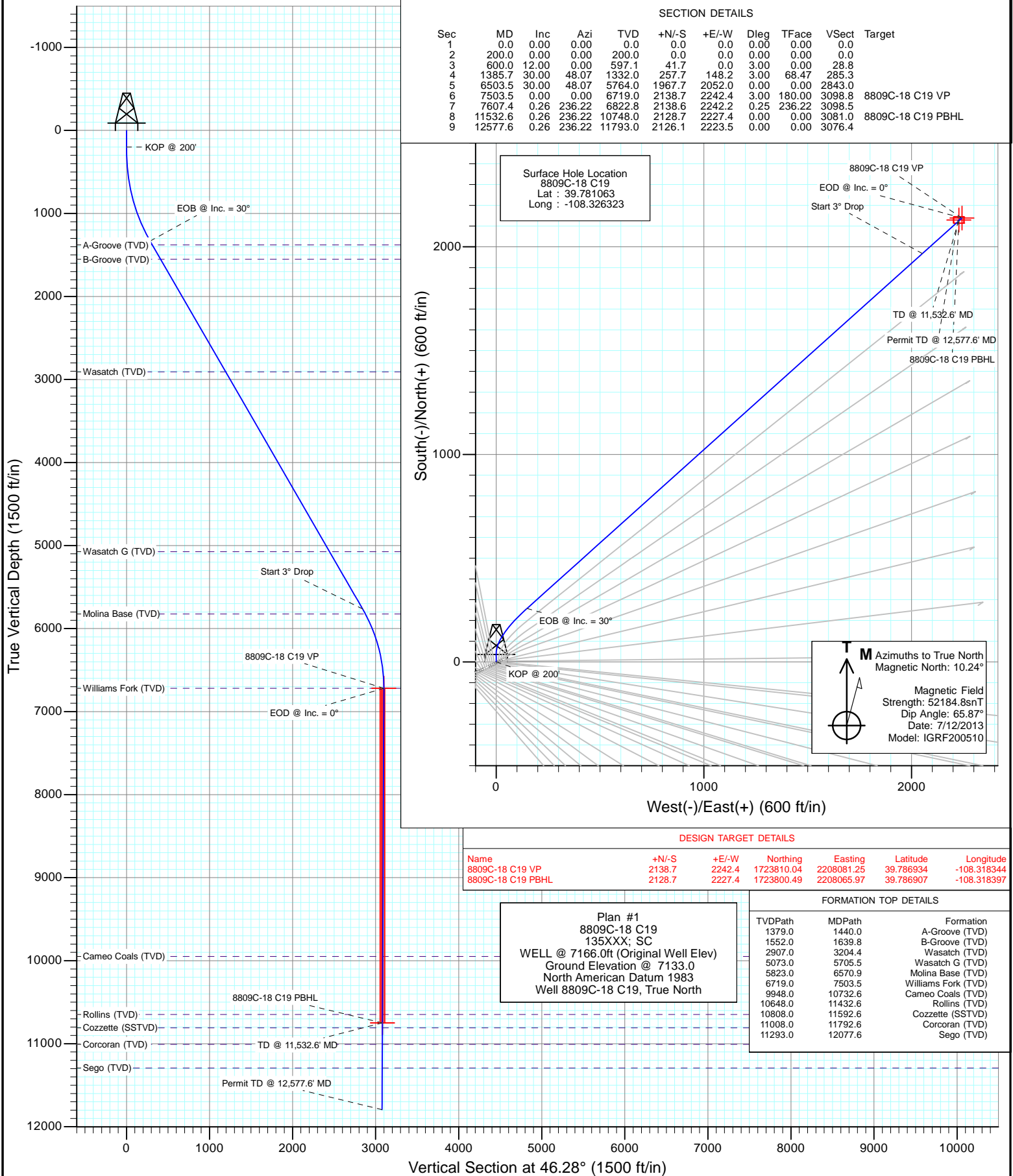
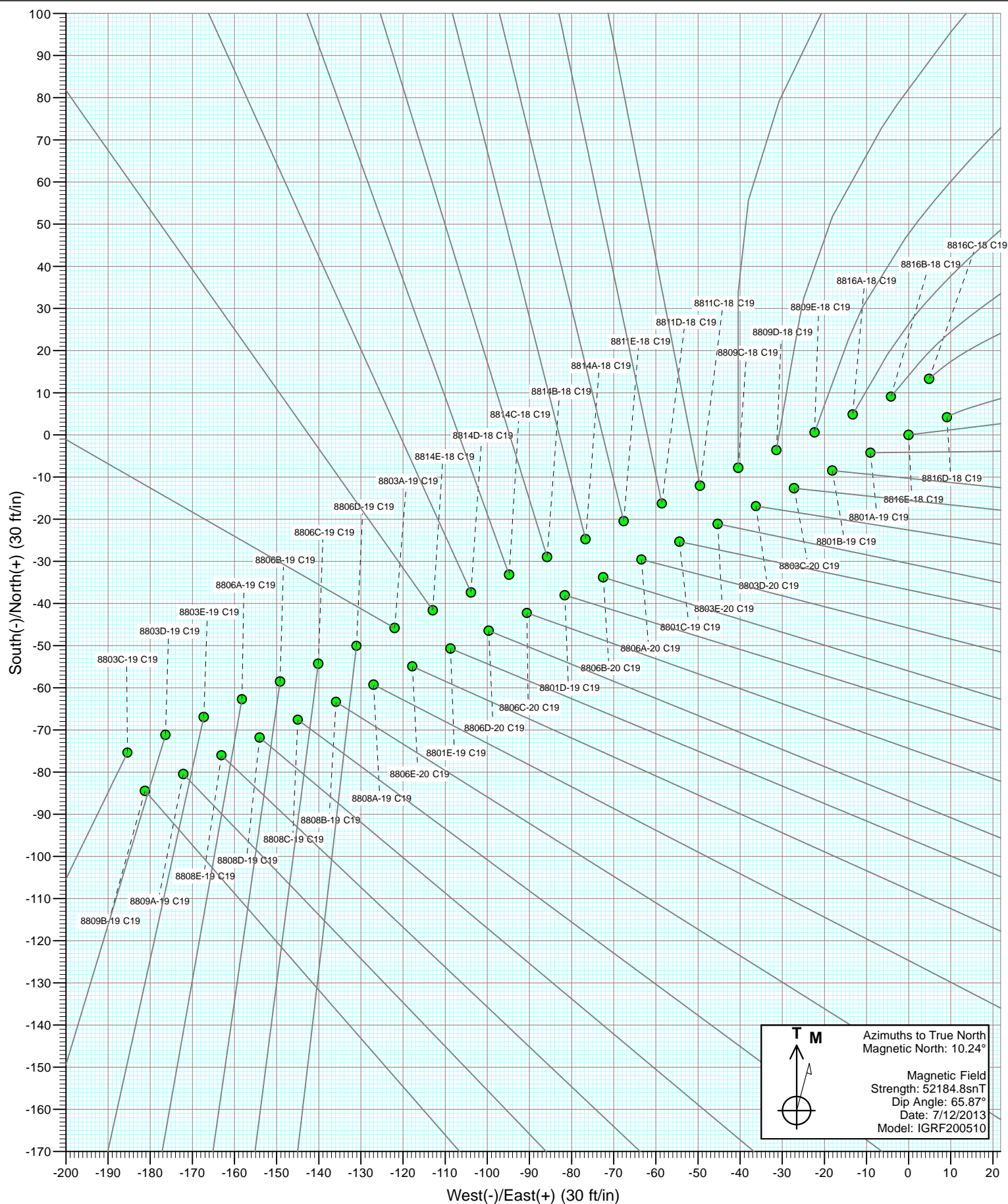
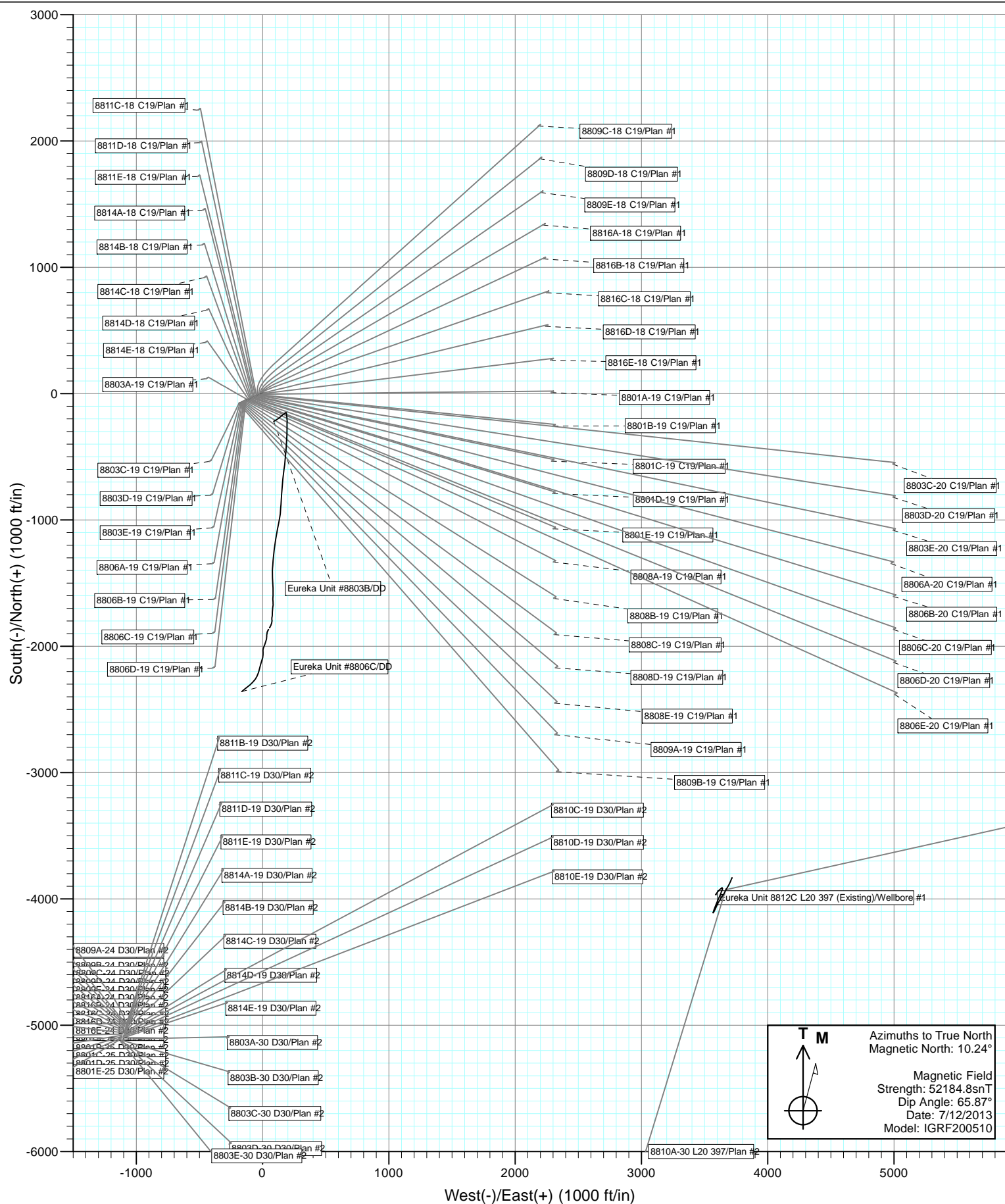




Project: Eureka Unit  
Site: C19 Pad (S19-T3S-R97W)  
Well: 8809C-18 C19  
Wellbore: DD  
Design: Plan #1







# Cathedral Energy Services

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well 8809C-18 C19
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	WELL @ 7166.0ft (Original Well Elev)
<b>Project:</b>	Eureka Unit	<b>MD Reference:</b>	WELL @ 7166.0ft (Original Well Elev)
<b>Site:</b>	C19 Pad (S19-T3S-R97W)	<b>North Reference:</b>	True
<b>Well:</b>	8809C-18 C19	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	DD		
<b>Design:</b>	Plan #1		

<b>Project</b>	Eureka Unit		
<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 Central Zone		

Site		C19 Pad (S19-T3S-R97W)			
Site Position:		Northing:	1,721,669.90 ft	Latitude:	39.780853
From:	Lat/Long	Easting:	2,205,630.31 ft	Longitude:	-108.326824
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	-1.78 °

Well	8809C-18 C19					
Well Position	+N/-S	0.0 ft	Northing:	1,721,742.13 ft	Latitude:	39.781063
	+E/-W	0.0 ft	Easting:	2,205,773.40 ft	Longitude:	-108.326323
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	7,133.0 ft

<b>Wellbore</b>	DD				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF200510	7/12/2013	10.24	65.87	52,185

<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	46.28

<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	
600.0	12.00	0.00	597.1	41.7	0.0	3.00	3.00	0.00	0.00	
1,385.7	30.00	48.07	1,332.0	257.7	148.2	3.00	2.29	6.12	68.47	
6,503.5	30.00	48.07	5,764.0	1,967.7	2,052.0	0.00	0.00	0.00	0.00	
7,503.5	0.00	0.00	6,719.0	2,138.7	2,242.4	3.00	-3.00	0.00	180.00	8809C-18 C19 VP
7,607.4	0.26	236.22	6,822.8	2,138.6	2,242.2	0.25	0.25	-119.22	236.22	
11,532.6	0.26	236.22	10,748.0	2,128.7	2,227.4	0.00	0.00	0.00	0.00	8809C-18 C19 PBHL
12,577.6	0.26	236.22	11,793.0	2,126.1	2,223.5	0.00	0.00	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 8809C-18 C19
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	WELL @ 7166.0ft (Original Well Elev)
<b>Project:</b>	Eureka Unit	<b>MD Reference:</b>	WELL @ 7166.0ft (Original Well Elev)
<b>Site:</b>	C19 Pad (S19-T3S-R97W)	<b>North Reference:</b>	True
<b>Well:</b>	8809C-18 C19	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	DD		
<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	3.00	0.00	300.0	2.6	0.0	1.8	3.00	3.00	
400.0	6.00	0.00	399.6	10.5	0.0	7.2	3.00	3.00	
500.0	9.00	0.00	498.8	23.5	0.0	16.3	3.00	3.00	
600.0	12.00	0.00	597.1	41.7	0.0	28.8	3.00	3.00	
700.0	13.39	12.13	694.7	63.5	2.4	45.6	3.00	1.39	
800.0	15.24	21.70	791.6	87.0	9.7	67.2	3.00	1.85	
900.0	17.41	29.09	887.5	112.3	21.9	93.4	3.00	2.17	
1,000.0	19.80	34.83	982.3	139.3	38.8	124.3	3.00	2.38	
1,100.0	22.32	39.34	1,075.6	167.9	60.5	159.8	3.00	2.53	
1,200.0	24.95	42.96	1,167.2	198.0	87.0	199.7	3.00	2.63	
1,300.0	27.65	45.93	1,256.9	229.6	118.0	243.9	3.00	2.70	
1,385.7	30.00	48.07	1,332.0	257.7	148.2	285.2	3.00	2.75	EOB @ Inc. = 30°
1,400.0	30.00	48.07	1,344.3	262.5	153.5	292.4	0.01	0.01	
1,440.0	30.00	48.07	1,379.0	275.9	168.4	312.4	0.00	0.00	A-Groove (TVD)
1,500.0	30.00	48.07	1,430.9	295.9	190.7	342.4	0.00	0.00	
1,600.0	30.00	48.07	1,517.5	329.3	227.9	392.4	0.00	0.00	
1,639.8	30.00	48.07	1,552.0	342.6	242.7	412.2	0.00	0.00	B-Groove (TVD)
1,700.0	30.00	48.07	1,604.1	362.7	265.1	442.3	0.00	0.00	
1,800.0	30.00	48.07	1,690.7	396.2	302.3	492.3	0.00	0.00	
1,900.0	30.00	48.07	1,777.3	429.6	339.5	542.3	0.00	0.00	
2,000.0	30.00	48.07	1,864.0	463.0	376.7	592.3	0.00	0.00	
2,100.0	30.00	48.07	1,950.6	496.4	413.9	642.2	0.00	0.00	
2,200.0	30.00	48.07	2,037.2	529.8	451.1	692.2	0.00	0.00	
2,300.0	30.00	48.07	2,123.8	563.2	488.3	742.2	0.00	0.00	
2,400.0	30.00	48.07	2,210.4	596.6	525.5	792.2	0.00	0.00	
2,500.0	30.00	48.07	2,297.0	630.0	562.7	842.1	0.00	0.00	
2,600.0	30.00	48.07	2,383.6	663.5	599.9	892.1	0.00	0.00	
2,700.0	30.00	48.07	2,470.2	696.9	637.1	942.1	0.00	0.00	
2,800.0	30.00	48.07	2,556.8	730.3	674.3	992.1	0.00	0.00	
2,900.0	30.00	48.07	2,643.4	763.7	711.5	1,042.1	0.00	0.00	
3,000.0	30.00	48.07	2,730.0	797.1	748.7	1,092.0	0.00	0.00	
3,100.0	30.00	48.07	2,816.6	830.5	785.9	1,142.0	0.00	0.00	
3,200.0	30.00	48.07	2,903.2	863.9	823.1	1,192.0	0.00	0.00	
3,204.4	30.00	48.07	2,907.0	865.4	824.8	1,194.2	0.00	0.00	Wasatch (TVD)
3,300.0	30.00	48.07	2,989.8	897.3	860.3	1,242.0	0.00	0.00	
3,400.0	30.00	48.07	3,076.4	930.8	897.5	1,291.9	0.00	0.00	
3,500.0	30.00	48.07	3,163.0	964.2	934.7	1,341.9	0.00	0.00	
3,600.0	30.00	48.07	3,249.6	997.6	971.9	1,391.9	0.00	0.00	
3,700.0	30.00	48.07	3,336.2	1,031.0	1,009.1	1,441.9	0.00	0.00	
3,800.0	30.00	48.07	3,422.8	1,064.4	1,046.3	1,491.9	0.00	0.00	
3,900.0	30.00	48.07	3,509.4	1,097.8	1,083.5	1,541.8	0.00	0.00	
4,000.0	30.00	48.07	3,596.0	1,131.2	1,120.7	1,591.8	0.00	0.00	
4,100.0	30.00	48.07	3,682.6	1,164.6	1,157.9	1,641.8	0.00	0.00	
4,200.0	30.00	48.07	3,769.2	1,198.1	1,195.1	1,691.8	0.00	0.00	
4,300.0	30.00	48.07	3,855.8	1,231.5	1,232.3	1,741.7	0.00	0.00	
4,400.0	30.00	48.07	3,942.4	1,264.9	1,269.5	1,791.7	0.00	0.00	
4,500.0	30.00	48.07	4,029.0	1,298.3	1,306.7	1,841.7	0.00	0.00	
4,600.0	30.00	48.07	4,115.6	1,331.7	1,343.9	1,891.7	0.00	0.00	
4,700.0	30.00	48.07	4,202.2	1,365.1	1,381.1	1,941.7	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 8809C-18 C19
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	WELL @ 7166.0ft (Original Well Elev)
<b>Project:</b>	Eureka Unit	<b>MD Reference:</b>	WELL @ 7166.0ft (Original Well Elev)
<b>Site:</b>	C19 Pad (S19-T3S-R97W)	<b>North Reference:</b>	True
<b>Well:</b>	8809C-18 C19	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	DD		
<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	30.00	48.07	4,288.8	1,398.5	1,418.3	1,991.6	0.00	0.00	
4,900.0	30.00	48.07	4,375.4	1,431.9	1,455.5	2,041.6	0.00	0.00	
5,000.0	30.00	48.07	4,462.0	1,465.4	1,492.7	2,091.6	0.00	0.00	
5,100.0	30.00	48.07	4,548.6	1,498.8	1,529.9	2,141.6	0.00	0.00	
5,200.0	30.00	48.07	4,635.2	1,532.2	1,567.1	2,191.5	0.00	0.00	
5,300.0	30.00	48.07	4,721.8	1,565.6	1,604.3	2,241.5	0.00	0.00	
5,400.0	30.00	48.07	4,808.4	1,599.0	1,641.5	2,291.5	0.00	0.00	
5,500.0	30.00	48.07	4,895.0	1,632.4	1,678.7	2,341.5	0.00	0.00	
5,600.0	30.00	48.07	4,981.6	1,665.8	1,715.9	2,391.5	0.00	0.00	
5,700.0	30.00	48.07	5,068.2	1,699.2	1,753.1	2,441.4	0.00	0.00	
5,705.5	30.00	48.07	5,073.0	1,701.1	1,755.2	2,444.2	0.00	0.00	Wasatch G (TVD)
5,800.0	30.00	48.07	5,154.8	1,732.7	1,790.3	2,491.4	0.00	0.00	
5,900.0	30.00	48.07	5,241.4	1,766.1	1,827.5	2,541.4	0.00	0.00	
6,000.0	30.00	48.07	5,328.0	1,799.5	1,864.7	2,591.4	0.00	0.00	
6,100.0	30.00	48.07	5,414.6	1,832.9	1,901.9	2,641.3	0.00	0.00	
6,200.0	30.00	48.07	5,501.2	1,866.3	1,939.1	2,691.3	0.00	0.00	
6,300.0	30.00	48.07	5,587.8	1,899.7	1,976.3	2,741.3	0.00	0.00	
6,400.0	30.00	48.07	5,674.4	1,933.1	2,013.5	2,791.3	0.00	0.00	
6,503.5	30.00	48.07	5,764.0	1,967.7	2,052.0	2,843.0	0.00	0.00	Start 3° Drop
6,570.9	27.98	48.07	5,823.0	1,989.5	2,076.3	2,875.7	3.00	-3.00	Molina Base (TVD)
6,600.0	27.11	48.07	5,848.8	1,998.5	2,086.3	2,889.1	3.00	-3.00	
6,700.0	24.11	48.07	5,939.0	2,027.4	2,118.5	2,932.3	3.00	-3.00	
6,800.0	21.11	48.07	6,031.3	2,053.1	2,147.1	2,970.7	3.00	-3.00	
6,900.0	18.11	48.07	6,125.5	2,075.5	2,172.0	3,004.2	3.00	-3.00	
7,000.0	15.11	48.07	6,221.3	2,094.6	2,193.3	3,032.8	3.00	-3.00	
7,100.0	12.11	48.07	6,318.5	2,110.3	2,210.8	3,056.3	3.00	-3.00	
7,200.0	9.11	48.07	6,416.7	2,122.6	2,224.5	3,074.7	3.00	-3.00	
7,300.0	6.11	48.07	6,515.9	2,131.5	2,234.3	3,087.9	3.00	-3.00	
7,400.0	3.11	48.07	6,615.5	2,136.8	2,240.3	3,096.0	3.00	-3.00	
7,503.5	0.00	0.00	6,719.0	2,138.7	2,242.4	3,098.8	3.00	-3.00	EOD @ Inc. = 0° - Williams Fork (TVD)
7,607.4	0.26	236.22	6,822.8	2,138.6	2,242.2	3,098.5	0.25	0.25	
7,700.0	0.26	236.22	6,915.5	2,138.3	2,241.9	3,098.1	0.00	0.00	
7,800.0	0.26	236.22	7,015.5	2,138.1	2,241.5	3,097.7	0.00	0.00	
7,900.0	0.26	236.22	7,115.5	2,137.8	2,241.1	3,097.2	0.00	0.00	
8,000.0	0.26	236.22	7,215.5	2,137.6	2,240.7	3,096.8	0.00	0.00	
8,100.0	0.26	236.22	7,315.5	2,137.3	2,240.3	3,096.3	0.00	0.00	
8,200.0	0.26	236.22	7,415.5	2,137.1	2,240.0	3,095.9	0.00	0.00	
8,300.0	0.26	236.22	7,515.5	2,136.8	2,239.6	3,095.4	0.00	0.00	
8,400.0	0.26	236.22	7,615.5	2,136.6	2,239.2	3,095.0	0.00	0.00	
8,500.0	0.26	236.22	7,715.5	2,136.3	2,238.8	3,094.6	0.00	0.00	
8,600.0	0.26	236.22	7,815.5	2,136.1	2,238.5	3,094.1	0.00	0.00	
8,700.0	0.26	236.22	7,915.5	2,135.8	2,238.1	3,093.7	0.00	0.00	
8,800.0	0.26	236.22	8,015.5	2,135.6	2,237.7	3,093.2	0.00	0.00	
8,900.0	0.26	236.22	8,115.5	2,135.3	2,237.3	3,092.8	0.00	0.00	
9,000.0	0.26	236.22	8,215.5	2,135.1	2,237.0	3,092.3	0.00	0.00	
9,100.0	0.26	236.22	8,315.5	2,134.8	2,236.6	3,091.9	0.00	0.00	
9,200.0	0.26	236.22	8,415.5	2,134.6	2,236.2	3,091.4	0.00	0.00	
9,300.0	0.26	236.22	8,515.5	2,134.3	2,235.8	3,091.0	0.00	0.00	
9,400.0	0.26	236.22	8,615.5	2,134.1	2,235.5	3,090.5	0.00	0.00	
9,500.0	0.26	236.22	8,715.4	2,133.8	2,235.1	3,090.1	0.00	0.00	
9,600.0	0.26	236.22	8,815.4	2,133.6	2,234.7	3,089.6	0.00	0.00	
9,700.0	0.26	236.22	8,915.4	2,133.3	2,234.3	3,089.2	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 8809C-18 C19
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	WELL @ 7166.0ft (Original Well Elev)
<b>Project:</b>	Eureka Unit	<b>MD Reference:</b>	WELL @ 7166.0ft (Original Well Elev)
<b>Site:</b>	C19 Pad (S19-T3S-R97W)	<b>North Reference:</b>	True
<b>Well:</b>	8809C-18 C19	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	DD		
<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
9,800.0	0.26	236.22	9,015.4	2,133.0	2,233.9	3,088.8	0.00	0.00	
9,900.0	0.26	236.22	9,115.4	2,132.8	2,233.6	3,088.3	0.00	0.00	
10,000.0	0.26	236.22	9,215.4	2,132.5	2,233.2	3,087.9	0.00	0.00	
10,100.0	0.26	236.22	9,315.4	2,132.3	2,232.8	3,087.4	0.00	0.00	
10,200.0	0.26	236.22	9,415.4	2,132.0	2,232.4	3,087.0	0.00	0.00	
10,300.0	0.26	236.22	9,515.4	2,131.8	2,232.1	3,086.5	0.00	0.00	
10,400.0	0.26	236.22	9,615.4	2,131.5	2,231.7	3,086.1	0.00	0.00	
10,500.0	0.26	236.22	9,715.4	2,131.3	2,231.3	3,085.6	0.00	0.00	
10,600.0	0.26	236.22	9,815.4	2,131.0	2,230.9	3,085.2	0.00	0.00	
10,700.0	0.26	236.22	9,915.4	2,130.8	2,230.6	3,084.7	0.00	0.00	
10,732.6	0.26	236.22	9,948.0	2,130.7	2,230.4	3,084.6	0.00	0.00	Cameo Coals (TVD)
10,800.0	0.26	236.22	10,015.4	2,130.5	2,230.2	3,084.3	0.00	0.00	
10,900.0	0.26	236.22	10,115.4	2,130.3	2,229.8	3,083.8	0.00	0.00	
11,000.0	0.26	236.22	10,215.4	2,130.0	2,229.4	3,083.4	0.00	0.00	
11,100.0	0.26	236.22	10,315.4	2,129.8	2,229.1	3,083.0	0.00	0.00	
11,200.0	0.26	236.22	10,415.4	2,129.5	2,228.7	3,082.5	0.00	0.00	
11,300.0	0.26	236.22	10,515.4	2,129.3	2,228.3	3,082.1	0.00	0.00	
11,400.0	0.26	236.22	10,615.4	2,129.0	2,227.9	3,081.6	0.00	0.00	
11,432.6	0.26	236.22	10,648.0	2,128.9	2,227.8	3,081.5	0.00	0.00	Rollins (TVD)
11,500.0	0.26	236.22	10,715.4	2,128.8	2,227.5	3,081.2	0.00	0.00	
11,532.6	0.26	236.22	10,748.0	2,128.7	2,227.4	3,081.0	0.00	0.00	TD @ 11,532.6' MD
11,592.6	0.26	236.22	10,808.0	2,128.5	2,227.2	3,080.8	0.00	0.00	Cozzette (SSTVD)
11,600.0	0.26	236.22	10,815.4	2,128.5	2,227.2	3,080.7	0.00	0.00	
11,700.0	0.26	236.22	10,915.4	2,128.3	2,226.8	3,080.3	0.00	0.00	
11,792.6	0.26	236.22	11,008.0	2,128.0	2,226.4	3,079.9	0.00	0.00	Corcoran (TVD)
11,800.0	0.26	236.22	11,015.4	2,128.0	2,226.4	3,079.8	0.00	0.00	
11,900.0	0.26	236.22	11,115.4	2,127.8	2,226.0	3,079.4	0.00	0.00	
12,000.0	0.26	236.22	11,215.4	2,127.5	2,225.7	3,078.9	0.00	0.00	
12,077.6	0.26	236.22	11,293.0	2,127.3	2,225.4	3,078.6	0.00	0.00	Sego (TVD)
12,100.0	0.26	236.22	11,315.4	2,127.3	2,225.3	3,078.5	0.00	0.00	
12,200.0	0.26	236.22	11,415.4	2,127.0	2,224.9	3,078.0	0.00	0.00	
12,300.0	0.26	236.22	11,515.4	2,126.7	2,224.5	3,077.6	0.00	0.00	
12,400.0	0.26	236.22	11,615.4	2,126.5	2,224.2	3,077.2	0.00	0.00	
12,500.0	0.26	236.22	11,715.4	2,126.2	2,223.8	3,076.7	0.00	0.00	
12,577.6	0.26	236.22	11,793.0	2,126.1	2,223.5	3,076.4	0.00	0.00	Permit TD @ 12,577.6' MD

### 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									
8809C-18 C19 VP	0.00	0.00	6,719.0	2,138.7	2,242.4	1,723,810.04	2,208,081.25	39.786934	-108.318344
- plan hits target center									
- Point									
8809C-18 C19 PBHL	0.00	0.00	10,748.0	2,128.7	2,227.4	1,723,800.49	2,208,065.97	39.786907	-108.318397
- plan hits target center									
- Rectangle (sides W30.0 H50.0 D0.0)									

# Cathedral Energy Services

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well 8809C-18 C19
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	WELL @ 7166.0ft (Original Well Elev)
<b>Project:</b>	Eureka Unit	<b>MD Reference:</b>	WELL @ 7166.0ft (Original Well Elev)
<b>Site:</b>	C19 Pad (S19-T3S-R97W)	<b>North Reference:</b>	True
<b>Well:</b>	8809C-18 C19	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	DD		
<b>Design:</b>	Plan #1		

### Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,440.0	1,379.0	A-Groove (TVD)			
1,639.8	1,552.0	B-Groove (TVD)			
3,204.4	2,907.0	Wasatch (TVD)			
5,705.5	5,073.0	Wasatch G (TVD)			
6,570.9	5,823.0	Molina Base (TVD)			
7,503.5	6,719.0	Williams Fork (TVD)			
10,732.6	9,948.0	Cameo Coals (TVD)			
11,432.6	10,648.0	Rollins (TVD)			
11,592.6	10,808.0	Cozzette (SSTVD)			
11,792.6	11,008.0	Corcoran (TVD)			
12,077.6	11,293.0	Sego (TVD)			

### 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'
1,385.7	1,332.0	257.7	148.2	EOB @ Inc. = 30°
6,503.5	5,764.0	1,967.7	2,052.0	Start 3° Drop
7,503.5	6,719.0	2,138.7	2,242.4	EOD @ Inc. = 0°
11,532.6	10,748.0	2,128.7	2,227.4	TD @ 11,532.6' MD
12,577.6	11,793.0	2,126.1	2,223.5	Permit TD @ 12,577.6' MD