

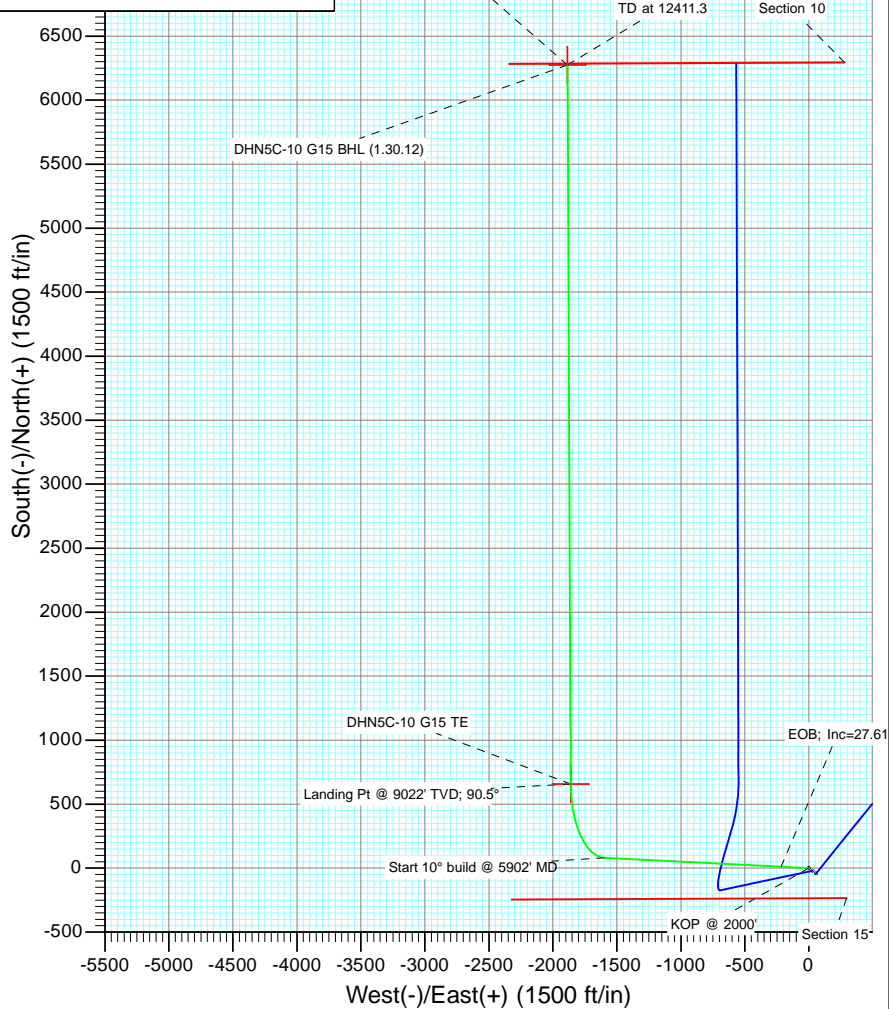
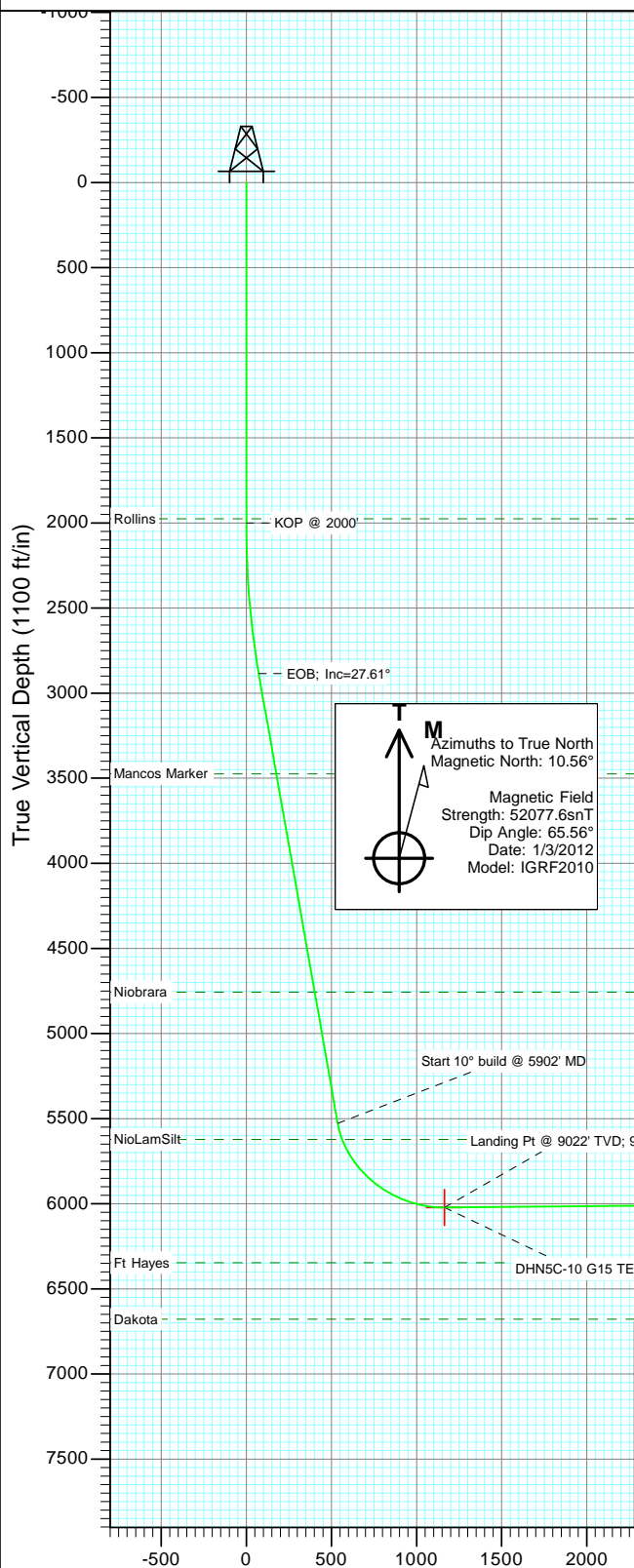


Project: North Piceance
Site: G15 Pad 7101
Well: DHN5C-10 G15
Wellbore: DD
Design: Plan #3



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	0.0	0.00	0.00	0.0	
2	2000.0	0.00	0.00	2000.0	0.0	0.0	0.00	0.00	0.0	
3	2920.3	27.61	272.89	2885.1	11.0	-217.2	3.00	272.89	73.0	
4	5902.9	27.61	272.89	5528.1	80.7	-1597.6	0.00	0.00	537.1	
5	6792.8	90.50	359.74	6022.0	656.7	-1860.6	10.00	86.98	1164.4	DHN5C-10 G15 TE
6	12411.3	90.50	359.74	5973.0	6275.0	-1885.7	0.00	0.00	6552.2	DHN5C-10 G15 BHL (1.30.12)

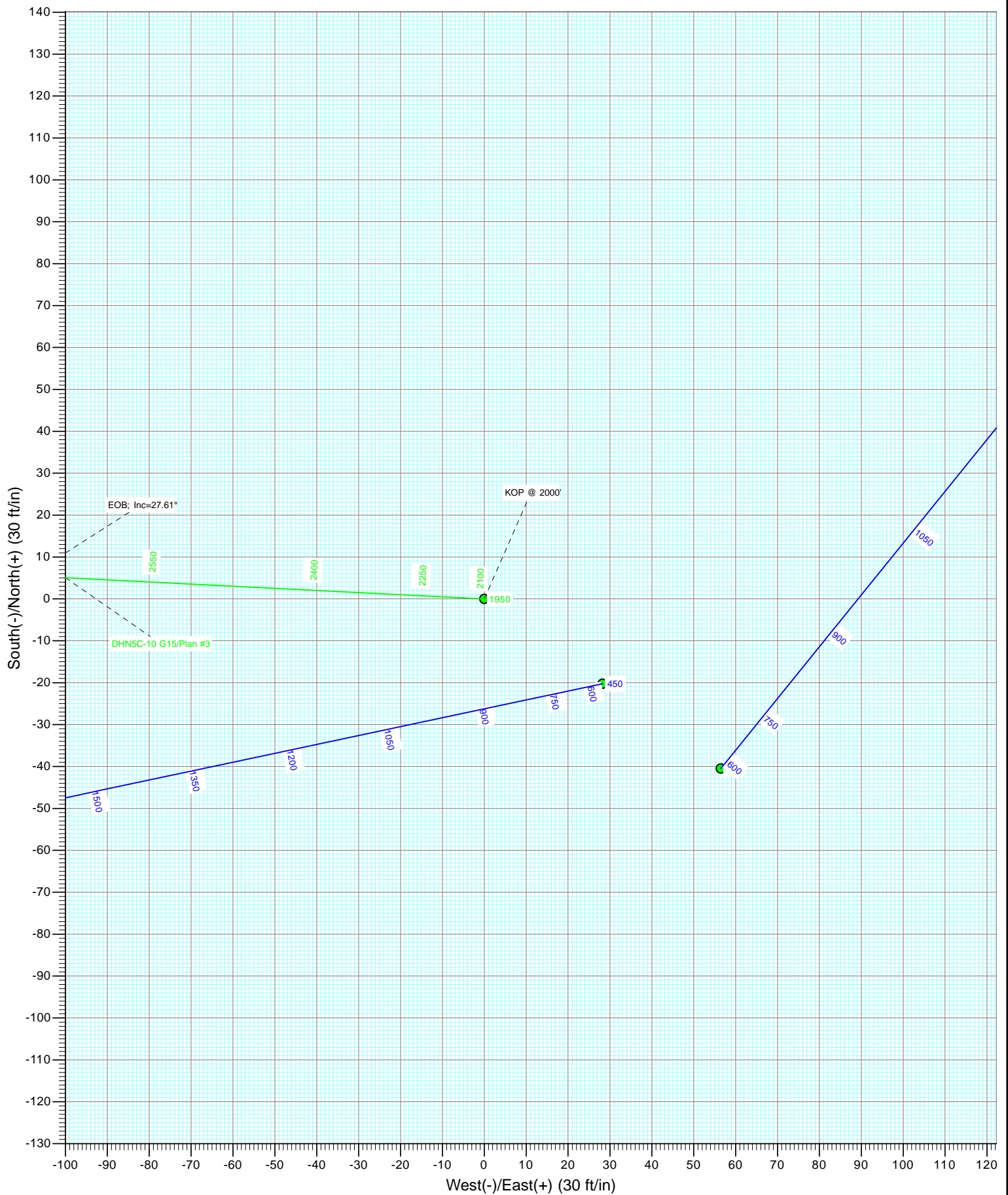


FORMATION TOP DETAILS

TVDPATH	MDPATH	FORMATION
1976.0	1976.0	Rollins
3474.0	3584.9	Mancos Marker
4757.0	5032.7	Niobrara
5622.0	6009.8	NioLamSilt

Type	Target	Azimuth	Origin Type	N/S	E/W	From TVD
TD	No Target (Freehand)	343.27	Slot	0.0	0.0	0.0
Name						
DHN5C-10 G15 BHL (1.30.12)	5973.0	+N/-S	+E/-W	Latitude	Longitude	
DHN5C-10 G15 TE	6022.0	6275.1	-1885.3	39° 27' 49.91 N	108° 39' 11.80 W	
		656.7	-1860.6	39° 26' 54.38 N	108° 39' 11.48 W	

Vertical Section at 343.27° (1100 ft/in)



Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well DHN5C-10 G15
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	22' KB @ 6399.0ft (Original Well Elev)
Project:	North Piceance	MD Reference:	22' KB @ 6399.0ft (Original Well Elev)
Site:	G15 Pad 7101	North Reference:	True
Well:	DHN5C-10 G15	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #3		

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

Site		G15 Pad 7101			
Site Position:		Northing:	1,602,914.87 ft	Latitude:	39° 26' 47.49 N
From:	Lat/Long	Easting:	2,111,642.16 ft	Longitude:	108° 38' 47.04 W
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	-1.98 °

Well	DHN5C-10 G15					
Well Position	+N/-S	0.0 ft	Northing:	1,602,957.26 ft	Latitude:	39° 26' 47.89 N
	+E/-W	0.0 ft	Easting:	2,111,587.11 ft	Longitude:	108° 38' 47.76 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	6,377.0 ft

Wellbore	DD				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	1/3/2012	10.56	65.56	52,078

Design	Plan #3				
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	0.0	343.27	

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	0.0	0.00	0.00	0.00	0.00	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,920.3	27.61	272.89	2,885.1	11.0	-217.2	3.00	3.00	0.00	272.89	
5,902.9	27.61	272.89	5,528.1	80.7	-1,597.6	0.00	0.00	0.00	0.00	
6,792.8	90.50	359.74	6,022.0	656.7	-1,860.6	10.00	7.07	9.76	86.98	DHN5C-10 G15 TE
12,411.3	90.50	359.74	5,973.0	6,275.0	-1,885.7	0.00	0.00	0.00	0.00	DHN5C-10 G15 BHL

Planning Report

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Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	22' KB @ 6399.0ft (Original Well Elev)
Project:	North Piceance	MD Reference:	22' KB @ 6399.0ft (Original Well Elev)
Site:	G15 Pad 7101	North Reference:	True
Well:	DHN5C-10 G15	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #3		

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	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	
1,976.0	0.00	0.00	1,976.0	0.0	0.0	0.0	0.00	0.00	Rollins
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	KOP @ 2000'
2,100.0	3.00	272.89	2,100.0	0.1	-2.6	0.9	3.00	3.00	
2,200.0	6.00	272.89	2,199.6	0.5	-10.4	3.5	3.00	3.00	
2,300.0	9.00	272.89	2,298.8	1.2	-23.5	7.9	3.00	3.00	
2,400.0	12.00	272.89	2,397.1	2.1	-41.7	14.0	3.00	3.00	
2,500.0	15.00	272.89	2,494.3	3.3	-65.0	21.8	3.00	3.00	
2,600.0	18.00	272.89	2,590.2	4.7	-93.4	31.4	3.00	3.00	
2,700.0	21.00	272.89	2,684.4	6.4	-126.7	42.6	3.00	3.00	
2,800.0	24.00	272.89	2,776.8	8.3	-164.9	55.4	3.00	3.00	
2,900.0	27.00	272.89	2,867.1	10.5	-207.9	69.9	3.00	3.00	
2,920.3	27.61	272.89	2,885.1	11.0	-217.2	73.0	3.00	3.00	EOB; Inc=27.61°
3,000.0	27.61	272.89	2,955.7	12.8	-254.1	85.4	0.00	0.00	
3,100.0	27.61	272.89	3,044.3	15.2	-300.4	101.0	0.00	0.00	
3,200.0	27.61	272.89	3,133.0	17.5	-346.6	116.5	0.00	0.00	
3,300.0	27.61	272.89	3,221.6	19.8	-392.9	132.1	0.00	0.00	
3,400.0	27.61	272.89	3,310.2	22.2	-439.2	147.6	0.00	0.00	
3,500.0	27.61	272.89	3,398.8	24.5	-485.5	163.2	0.00	0.00	
3,584.9	27.61	272.89	3,474.0	26.5	-524.8	176.4	0.00	0.00	Mancos Marker
3,600.0	27.61	272.89	3,487.4	26.9	-531.8	178.8	0.00	0.00	
3,700.0	27.61	272.89	3,576.0	29.2	-578.1	194.3	0.00	0.00	
3,800.0	27.61	272.89	3,664.6	31.5	-624.3	209.9	0.00	0.00	
3,900.0	27.61	272.89	3,753.2	33.9	-670.6	225.4	0.00	0.00	
4,000.0	27.61	272.89	3,841.9	36.2	-716.9	241.0	0.00	0.00	
4,100.0	27.61	272.89	3,930.5	38.5	-763.2	256.6	0.00	0.00	
4,200.0	27.61	272.89	4,019.1	40.9	-809.5	272.1	0.00	0.00	
4,300.0	27.61	272.89	4,107.7	43.2	-855.8	287.7	0.00	0.00	
4,400.0	27.61	272.89	4,196.3	45.6	-902.0	303.2	0.00	0.00	
4,500.0	27.61	272.89	4,284.9	47.9	-948.3	318.8	0.00	0.00	
4,600.0	27.61	272.89	4,373.5	50.2	-994.6	334.3	0.00	0.00	
4,700.0	27.61	272.89	4,462.2	52.6	-1,040.9	349.9	0.00	0.00	
4,800.0	27.61	272.89	4,550.8	54.9	-1,087.2	365.5	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well DHN5C-10 G15
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	22' KB @ 6399.0ft (Original Well Elev)
Project:	North Piceance	MD Reference:	22' KB @ 6399.0ft (Original Well Elev)
Site:	G15 Pad 7101	North Reference:	True
Well:	DHN5C-10 G15	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #3		

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
4,900.0	27.61	272.89	4,639.4	57.2	-1,133.4	381.0	0.00	0.00	
5,000.0	27.61	272.89	4,728.0	59.6	-1,179.7	396.6	0.00	0.00	
5,032.7	27.61	272.89	4,757.0	60.3	-1,194.9	401.7	0.00	0.00	Niobrara
5,100.0	27.61	272.89	4,816.6	61.9	-1,226.0	412.1	0.00	0.00	
5,200.0	27.61	272.89	4,905.2	64.3	-1,272.3	427.7	0.00	0.00	
5,300.0	27.61	272.89	4,993.8	66.6	-1,318.6	443.3	0.00	0.00	
5,400.0	27.61	272.89	5,082.5	68.9	-1,364.9	458.8	0.00	0.00	
5,500.0	27.61	272.89	5,171.1	71.3	-1,411.1	474.4	0.00	0.00	
5,600.0	27.61	272.89	5,259.7	73.6	-1,457.4	489.9	0.00	0.00	
5,700.0	27.61	272.89	5,348.3	75.9	-1,503.7	505.5	0.00	0.00	
5,800.0	27.61	272.89	5,436.9	78.3	-1,550.0	521.0	0.00	0.00	
5,900.0	27.61	272.89	5,525.5	80.6	-1,596.3	536.6	0.00	0.00	
5,902.9	27.61	272.89	5,528.1	80.7	-1,597.6	537.1	0.00	0.00	Start 10° build @ 5902' MD
6,000.0	29.62	292.82	5,613.5	91.1	-1,642.3	559.9	10.00	2.07	
6,009.8	29.97	294.64	5,622.0	93.1	-1,646.7	563.1	10.00	3.64	NioLamSilt
6,100.0	34.31	309.58	5,698.5	118.8	-1,686.9	599.2	10.00	4.81	
6,200.0	40.75	322.20	5,777.9	162.6	-1,728.8	653.3	10.00	6.44	
6,300.0	48.23	331.70	5,849.3	221.4	-1,766.5	720.4	10.00	7.48	
6,400.0	56.33	339.13	5,910.4	293.3	-1,799.1	798.7	10.00	8.10	
6,500.0	64.79	345.26	5,959.6	376.1	-1,825.5	885.6	10.00	8.46	
6,600.0	73.48	350.58	5,995.2	467.4	-1,844.9	978.6	10.00	8.68	
6,700.0	82.28	355.43	6,016.2	564.3	-1,856.8	1,074.8	10.00	8.81	
6,792.8	90.50	359.74	6,022.0	656.7	-1,860.6	1,164.4	10.00	8.86	Landing Pt @ 9022' TVD; 90.5° - DHN5C-10 G
6,800.0	90.50	359.74	6,021.9	664.0	-1,860.7	1,171.4	0.00	0.00	
6,900.0	90.50	359.74	6,021.1	764.0	-1,861.1	1,267.3	0.00	0.00	
7,000.0	90.50	359.74	6,020.2	864.0	-1,861.6	1,363.2	0.00	0.00	
7,100.0	90.50	359.74	6,019.3	963.9	-1,862.0	1,459.0	0.00	0.00	
7,200.0	90.50	359.74	6,018.4	1,063.9	-1,862.5	1,554.9	0.00	0.00	
7,300.0	90.50	359.74	6,017.6	1,163.9	-1,862.9	1,650.8	0.00	0.00	
7,400.0	90.50	359.74	6,016.7	1,263.9	-1,863.4	1,746.7	0.00	0.00	
7,500.0	90.50	359.74	6,015.8	1,363.9	-1,863.8	1,842.6	0.00	0.00	
7,600.0	90.50	359.74	6,015.0	1,463.9	-1,864.2	1,938.5	0.00	0.00	
7,700.0	90.50	359.74	6,014.1	1,563.9	-1,864.7	2,034.4	0.00	0.00	
7,800.0	90.50	359.74	6,013.2	1,663.9	-1,865.1	2,130.3	0.00	0.00	
7,900.0	90.50	359.74	6,012.3	1,763.9	-1,865.6	2,226.2	0.00	0.00	
8,000.0	90.50	359.74	6,011.5	1,863.9	-1,866.0	2,322.1	0.00	0.00	
8,100.0	90.50	359.74	6,010.6	1,963.9	-1,866.5	2,418.0	0.00	0.00	
8,200.0	90.50	359.74	6,009.7	2,063.9	-1,866.9	2,513.9	0.00	0.00	
8,300.0	90.50	359.74	6,008.8	2,163.9	-1,867.4	2,609.8	0.00	0.00	
8,400.0	90.50	359.74	6,008.0	2,263.9	-1,867.8	2,705.7	0.00	0.00	
8,500.0	90.50	359.74	6,007.1	2,363.9	-1,868.3	2,801.5	0.00	0.00	
8,600.0	90.50	359.74	6,006.2	2,463.9	-1,868.7	2,897.4	0.00	0.00	
8,700.0	90.50	359.74	6,005.4	2,563.9	-1,869.1	2,993.3	0.00	0.00	
8,800.0	90.50	359.74	6,004.5	2,663.9	-1,869.6	3,089.2	0.00	0.00	
8,900.0	90.50	359.74	6,003.6	2,763.9	-1,870.0	3,185.1	0.00	0.00	
9,000.0	90.50	359.74	6,002.7	2,863.9	-1,870.5	3,281.0	0.00	0.00	
9,100.0	90.50	359.74	6,001.9	2,963.9	-1,870.9	3,376.9	0.00	0.00	
9,200.0	90.50	359.74	6,001.0	3,063.8	-1,871.4	3,472.8	0.00	0.00	
9,300.0	90.50	359.74	6,000.1	3,163.8	-1,871.8	3,568.7	0.00	0.00	
9,400.0	90.50	359.74	5,999.2	3,263.8	-1,872.3	3,664.6	0.00	0.00	
9,500.0	90.50	359.74	5,998.4	3,363.8	-1,872.7	3,760.5	0.00	0.00	
9,600.0	90.50	359.74	5,997.5	3,463.8	-1,873.2	3,856.4	0.00	0.00	

Planning Report

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Project:	North Piceance	MD Reference:	22' KB @ 6399.0ft (Original Well Elev)
Site:	G15 Pad 7101	North Reference:	True
Well:	DHN5C-10 G15	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #3		

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
9,700.0	90.50	359.74	5,996.6	3,563.8	-1,873.6	3,952.3	0.00	0.00	
9,800.0	90.50	359.74	5,995.8	3,663.8	-1,874.1	4,048.2	0.00	0.00	
9,900.0	90.50	359.74	5,994.9	3,763.8	-1,874.5	4,144.0	0.00	0.00	
10,000.0	90.50	359.74	5,994.0	3,863.8	-1,874.9	4,239.9	0.00	0.00	
10,100.0	90.50	359.74	5,993.1	3,963.8	-1,875.4	4,335.8	0.00	0.00	
10,200.0	90.50	359.74	5,992.3	4,063.8	-1,875.8	4,431.7	0.00	0.00	
10,300.0	90.50	359.74	5,991.4	4,163.8	-1,876.3	4,527.6	0.00	0.00	
10,400.0	90.50	359.74	5,990.5	4,263.8	-1,876.7	4,623.5	0.00	0.00	
10,500.0	90.50	359.74	5,989.6	4,363.8	-1,877.2	4,719.4	0.00	0.00	
10,600.0	90.50	359.74	5,988.8	4,463.8	-1,877.6	4,815.3	0.00	0.00	
10,700.0	90.50	359.74	5,987.9	4,563.8	-1,878.1	4,911.2	0.00	0.00	
10,800.0	90.50	359.74	5,987.0	4,663.8	-1,878.5	5,007.1	0.00	0.00	
10,900.0	90.50	359.74	5,986.2	4,763.8	-1,879.0	5,103.0	0.00	0.00	
11,000.0	90.50	359.74	5,985.3	4,863.8	-1,879.4	5,198.9	0.00	0.00	
11,100.0	90.50	359.74	5,984.4	4,963.8	-1,879.8	5,294.8	0.00	0.00	
11,200.0	90.50	359.74	5,983.5	5,063.8	-1,880.3	5,390.7	0.00	0.00	
11,300.0	90.50	359.74	5,982.7	5,163.7	-1,880.7	5,486.5	0.00	0.00	
11,400.0	90.50	359.74	5,981.8	5,263.7	-1,881.2	5,582.4	0.00	0.00	
11,500.0	90.50	359.74	5,980.9	5,363.7	-1,881.6	5,678.3	0.00	0.00	
11,600.0	90.50	359.74	5,980.0	5,463.7	-1,882.1	5,774.2	0.00	0.00	
11,700.0	90.50	359.74	5,979.2	5,563.7	-1,882.5	5,870.1	0.00	0.00	
11,800.0	90.50	359.74	5,978.3	5,663.7	-1,883.0	5,966.0	0.00	0.00	
11,900.0	90.50	359.74	5,977.4	5,763.7	-1,883.4	6,061.9	0.00	0.00	
12,000.0	90.50	359.74	5,976.6	5,863.7	-1,883.9	6,157.8	0.00	0.00	
12,100.0	90.50	359.74	5,975.7	5,963.7	-1,884.3	6,253.7	0.00	0.00	
12,200.0	90.50	359.74	5,974.8	6,063.7	-1,884.8	6,349.6	0.00	0.00	
12,300.0	90.50	359.74	5,973.9	6,163.7	-1,885.2	6,445.5	0.00	0.00	
12,400.0	90.50	359.74	5,973.1	6,263.7	-1,885.6	6,541.4	0.00	0.00	
12,411.3	90.50	359.74	5,973.0	6,275.0	-1,885.7	6,552.2	0.00	0.00	TD at 12411.3 - DHN5C-10 G15 BHL (1.30.12)

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									
DHN5C-10 G15 BHL (1.30.12)	0.00	358.01	5,973.0	6,275.1	-1,885.3	1,609,293.84	2,109,920.21	39° 27' 49.91 N	108° 39' 11.80 W
- plan misses target center by 0.4ft at 12411.3ft MD (5973.0 TVD, 6275.0 N, -1885.7 E)									
- Point									
DHN5C-10 G15 TE	0.00	358.01	6,022.0	656.7	-1,860.6	1,603,678.01	2,109,750.32	39° 26' 54.38 N	108° 39' 11.48 W
- plan hits target center									
- Point									

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well DHN5C-10 G15
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	22' KB @ 6399.0ft (Original Well Elev)
Project:	North Piceance	MD Reference:	22' KB @ 6399.0ft (Original Well Elev)
Site:	G15 Pad 7101	North Reference:	True
Well:	DHN5C-10 G15	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #3		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,976.0	1,976.0	Rollins				
3,584.9	3,474.0	Mancos Marker				
5,032.7	4,757.0	Niobrara				
6,009.8	5,622.0	NioLamSilt				

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
2,000.0	2,000.0	0.0	0.0	KOP @ 2000'	
2,920.3	2,885.1	11.0	-217.2	EOB; Inc=27.61°	
5,902.9	5,528.1	80.7	-1,597.6	Start 10° build @ 5902' MD	
6,792.8	6,022.0	656.7	-1,860.6	Landing Pt @ 9022' TVD; 90.5°	
12,411.3	5,973.0	6,275.0	-1,885.7	TD at 12411.3	