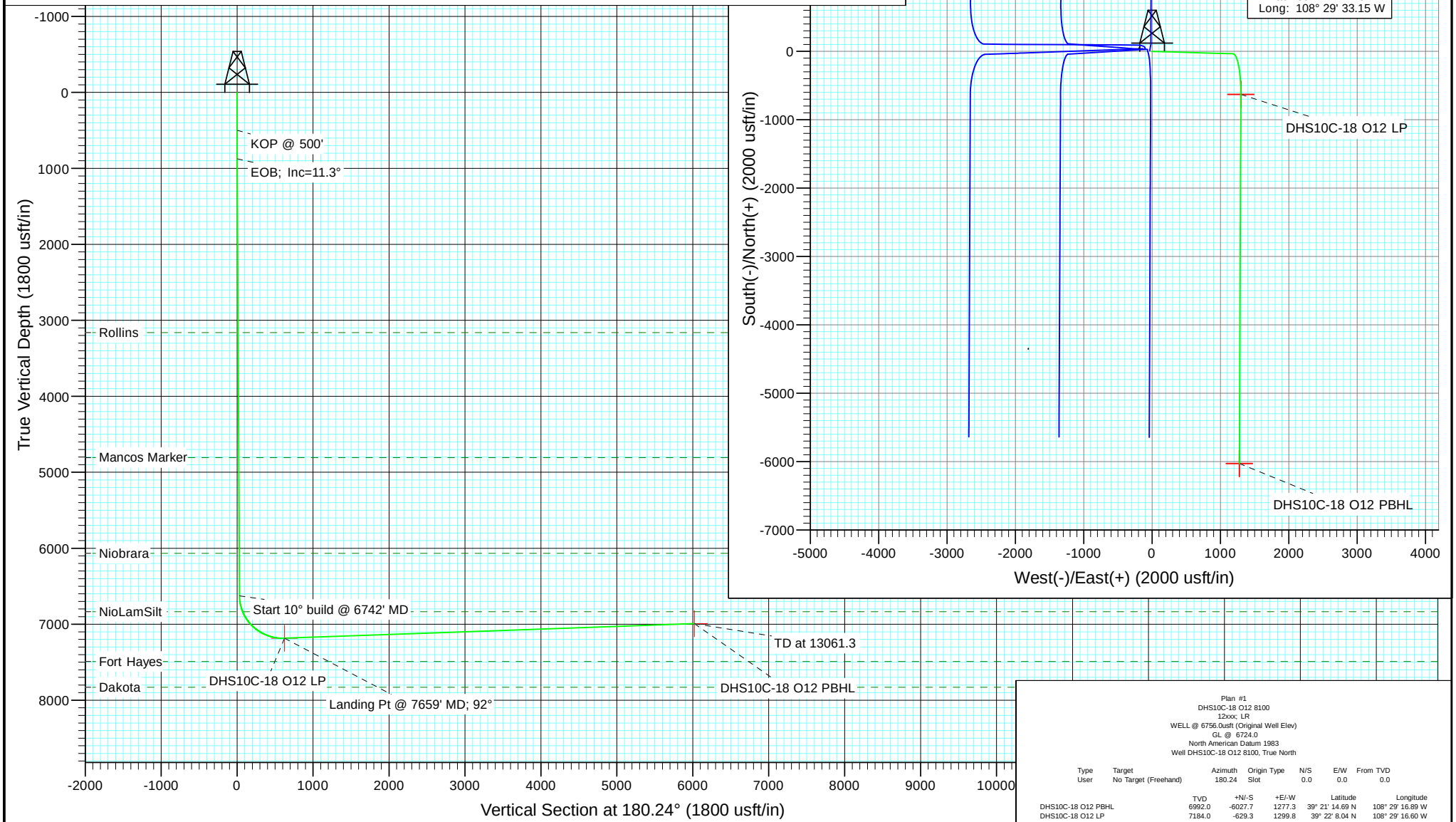
encana natural gas

Project: McKay Fork
Site: S12-T7S-R100W (O12 8100)
Well: DHS10C-18 O12 8100
Wellbore: Hz
Design: Plan #1

CATHEDRAL

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSect	Target	Annotation
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0		
2	500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.0		KOP @ 500'
3	876.9	11.31	91.74	874.5	-1.1	37.1	3.00	91.74	1.0		EOB; Inc=11.3°
4	6742.5	11.31	91.74	6626.2	-36.0	1186.6	0.00	0.00	31.0		Start 10° build @ 6742' MD
5	7659.5	92.04	180.24	7184.0	-629.3	1299.8	10.00	88.13	623.9	DHS10C-18 O12 LP	Landing Pt @ 7659' MD; 92°
6	13061.3	92.04	180.24	6992.0	-6027.7	1277.3	0.00	0.00	6022.3	DHS10C-18 O12 PBHL	TD at 13061.3



Plan #1
DHS10C-18 O12 8100
12xxx; LR
WELL @ 6756.0usft (Original Well Elev)
GL @ 6724.0
North American Datum 1983
Well DHS10C-18 O12 8100, True North

Type	Target	Azimuth	Origin Type	N/S	E/W	From TVD
User	No Target (Freehand)	180.24	Slot	0.0	0.0	0.0

	TVD	+N/-S	+E/-W	Latitude	Longitude
DHS10C-18 O12 PBHL	6992.0	-6027.7	1277.3	39° 21' 14.69 N	108° 29' 16.89 W
DHS10C-18 O12 LP	7184.0	-629.3	1299.8	39° 22' 8.04 N	108° 29' 16.60 W

Planning Report

Database:	USA EDM 5000 Multi Users DB	**Local Co-ordinate Reference:**	Well DHS10C-18 O12 8100
Company:	EnCana Oil & Gas (USA) Inc	**TVD Reference:**	WELL @ 6756.0usft (Original Well Elev)
Project:	McKay Fork	**MD Reference:**	WELL @ 6756.0usft (Original Well Elev)
Site:	S12-T7S-R100W (O12 8100)	**North Reference:**	True
Well:	DHS10C-18 O12 8100	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

Project McKay Fork

Map System:	US State Plane 1983	**System Datum:**	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		

Site S12-T7S-R100W (O12 8100)

Site Position:		**Northing:**	1,027,862.12 usft	**Latitude:**	39° 22' 14.27 N
From:	Lat/Long	**Easting:**	2,154,049.23 usft	**Longitude:**	108° 29' 33.19 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	-1.93 °

Well DHS10C-18 O12 8100

Well Position	**+N/-S**	0.0 usft	**Northing:**	1,027,860.99 usft	**Latitude:**	39° 22' 14.26 N
	+E/-W	0.0 usft	**Easting:**	2,154,052.33 usft	**Longitude:**	108° 29' 33.15 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	usft	**Ground Level:**	6,724.0 usft

Wellbore Hz

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	6/14/2012	10.43	65.52	52,009

Design Plan #1

Audit Notes:

Version:		**Phase:**	PLAN	**Tie On Depth:**	0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	180.24

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.00	0.00	
876.9	11.31	91.74	874.5	-1.1	37.1	3.00	3.00	0.00	91.74	
6,742.5	11.31	91.74	6,626.2	-36.0	1,186.6	0.00	0.00	0.00	0.00	
7,659.5	92.04	180.24	7,184.0	-629.3	1,299.8	10.00	8.80	9.65	88.13	DHS10C-18 O12 LP
13,061.3	92.04	180.24	6,992.0	-6,027.7	1,277.3	0.00	0.00	0.00	0.00	DHS10C-18 O12 PBH

Database:	USA EDM 5000 Multi Users DB	**Local Co-ordinate Reference:**	Well DHS10C-18 O12 8100
Company:	EnCana Oil & Gas (USA) Inc	**TVD Reference:**	WELL @ 6756.0usft (Original Well Elev)
Project:	McKay Fork	**MD Reference:**	WELL @ 6756.0usft (Original Well Elev)
Site:	S12-T7S-R100W (O12 8100)	**North Reference:**	True
Well:	DHS10C-18 O12 8100	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft	Build Rate (°/100u	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	KOP @ 500'
600.0	3.00	91.74	600.0	-0.1	2.6	0.1	3.00	3.00	
700.0	6.00	91.74	699.6	-0.3	10.5	0.3	3.00	3.00	
800.0	9.00	91.74	798.8	-0.7	23.5	0.6	3.00	3.00	
876.9	11.31	91.74	874.5	-1.1	37.1	1.0	3.00	3.00	EOB; Inc=11.3°
900.0	11.31	91.74	897.1	-1.3	41.6	1.1	0.00	0.00	
1,000.0	11.31	91.74	995.2	-1.9	61.2	1.6	0.00	0.00	
1,100.0	11.31	91.74	1,093.2	-2.4	80.8	2.1	0.00	0.00	
1,200.0	11.31	91.74	1,191.3	-3.0	100.4	2.6	0.00	0.00	
1,300.0	11.31	91.74	1,289.3	-3.6	120.0	3.1	0.00	0.00	
1,400.0	11.31	91.74	1,387.4	-4.2	139.6	3.6	0.00	0.00	
1,500.0	11.31	91.74	1,485.5	-4.8	159.2	4.2	0.00	0.00	
1,600.0	11.31	91.74	1,583.5	-5.4	178.8	4.7	0.00	0.00	
1,700.0	11.31	91.74	1,681.6	-6.0	198.4	5.2	0.00	0.00	
1,800.0	11.31	91.74	1,779.6	-6.6	218.0	5.7	0.00	0.00	
1,900.0	11.31	91.74	1,877.7	-7.2	237.6	6.2	0.00	0.00	
2,000.0	11.31	91.74	1,975.8	-7.8	257.2	6.7	0.00	0.00	
2,100.0	11.31	91.74	2,073.8	-8.4	276.8	7.2	0.00	0.00	
2,200.0	11.31	91.74	2,171.9	-9.0	296.4	7.7	0.00	0.00	
2,300.0	11.31	91.74	2,269.9	-9.6	316.0	8.2	0.00	0.00	
2,400.0	11.31	91.74	2,368.0	-10.2	335.6	8.8	0.00	0.00	
2,500.0	11.31	91.74	2,466.1	-10.8	355.2	9.3	0.00	0.00	
2,600.0	11.31	91.74	2,564.1	-11.4	374.8	9.8	0.00	0.00	
2,700.0	11.31	91.74	2,662.2	-11.9	394.4	10.3	0.00	0.00	
2,800.0	11.31	91.74	2,760.2	-12.5	414.0	10.8	0.00	0.00	
2,900.0	11.31	91.74	2,858.3	-13.1	433.6	11.3	0.00	0.00	
3,000.0	11.31	91.74	2,956.3	-13.7	453.1	11.8	0.00	0.00	
3,100.0	11.31	91.74	3,054.4	-14.3	472.7	12.3	0.00	0.00	
3,200.0	11.31	91.74	3,152.5	-14.9	492.3	12.9	0.00	0.00	
3,208.7	11.31	91.74	3,161.0	-15.0	494.1	12.9	0.00	0.00	Rollins
3,300.0	11.31	91.74	3,250.5	-15.5	511.9	13.4	0.00	0.00	
3,400.0	11.31	91.74	3,348.6	-16.1	531.5	13.9	0.00	0.00	
3,500.0	11.31	91.74	3,446.6	-16.7	551.1	14.4	0.00	0.00	
3,600.0	11.31	91.74	3,544.7	-17.3	570.7	14.9	0.00	0.00	
3,700.0	11.31	91.74	3,642.8	-17.9	590.3	15.4	0.00	0.00	
3,800.0	11.31	91.74	3,740.8	-18.5	609.9	15.9	0.00	0.00	
3,900.0	11.31	91.74	3,838.9	-19.1	629.5	16.4	0.00	0.00	
4,000.0	11.31	91.74	3,936.9	-19.7	649.1	16.9	0.00	0.00	
4,100.0	11.31	91.74	4,035.0	-20.3	668.7	17.5	0.00	0.00	
4,200.0	11.31	91.74	4,133.1	-20.9	688.3	18.0	0.00	0.00	
4,300.0	11.31	91.74	4,231.1	-21.4	707.9	18.5	0.00	0.00	
4,400.0	11.31	91.74	4,329.2	-22.0	727.5	19.0	0.00	0.00	
4,500.0	11.31	91.74	4,427.2	-22.6	747.1	19.5	0.00	0.00	
4,600.0	11.31	91.74	4,525.3	-23.2	766.7	20.0	0.00	0.00	
4,700.0	11.31	91.74	4,623.3	-23.8	786.3	20.5	0.00	0.00	
4,800.0	11.31	91.74	4,721.4	-24.4	805.9	21.0	0.00	0.00	
4,887.3	11.31	91.74	4,807.0	-24.9	823.0	21.5	0.00	0.00	Mancos Marker

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Project:	McKay Fork	**MD Reference:**	WELL @ 6756.0usft (Original Well Elev)
Site:	S12-T7S-R100W (O12 8100)	**North Reference:**	True
Well:	DHS10C-18 O12 8100	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft	Build Rate (°/100u	Comments / Formations
4,900.0	11.31	91.74	4,819.5	-25.0	825.5	21.6	0.00	0.00	
5,000.0	11.31	91.74	4,917.5	-25.6	845.1	22.1	0.00	0.00	
5,100.0	11.31	91.74	5,015.6	-26.2	864.7	22.6	0.00	0.00	
5,200.0	11.31	91.74	5,113.6	-26.8	884.3	23.1	0.00	0.00	
5,300.0	11.31	91.74	5,211.7	-27.4	903.9	23.6	0.00	0.00	
5,400.0	11.31	91.74	5,309.8	-28.0	923.5	24.1	0.00	0.00	
5,500.0	11.31	91.74	5,407.8	-28.6	943.1	24.6	0.00	0.00	
5,600.0	11.31	91.74	5,505.9	-29.2	962.7	25.1	0.00	0.00	
5,700.0	11.31	91.74	5,603.9	-29.8	982.3	25.6	0.00	0.00	
5,800.0	11.31	91.74	5,702.0	-30.4	1,001.9	26.2	0.00	0.00	
5,900.0	11.31	91.74	5,800.1	-31.0	1,021.5	26.7	0.00	0.00	
6,000.0	11.31	91.74	5,898.1	-31.5	1,041.1	27.2	0.00	0.00	
6,100.0	11.31	91.74	5,996.2	-32.1	1,060.7	27.7	0.00	0.00	
6,172.2	11.31	91.74	6,067.0	-32.6	1,074.9	28.1	0.00	0.00	Niobrara
6,200.0	11.31	91.74	6,094.2	-32.7	1,080.3	28.2	0.00	0.00	
6,300.0	11.31	91.74	6,192.3	-33.3	1,099.9	28.7	0.00	0.00	
6,400.0	11.31	91.74	6,290.3	-33.9	1,119.5	29.2	0.00	0.00	
6,500.0	11.31	91.74	6,388.4	-34.5	1,139.1	29.7	0.00	0.00	
6,600.0	11.31	91.74	6,486.5	-35.1	1,158.7	30.3	0.00	0.00	
6,700.0	11.31	91.74	6,584.5	-35.7	1,178.3	30.8	0.00	0.00	
6,742.5	11.31	91.74	6,626.2	-36.0	1,186.6	31.0	0.00	0.00	Start 10° build @ 6742' MD
6,800.0	12.84	118.54	6,682.5	-39.2	1,197.9	34.2	10.00	2.66	
6,900.0	19.60	145.70	6,778.6	-58.4	1,217.1	53.3	10.00	6.77	
6,962.1	24.90	154.33	6,836.0	-78.8	1,228.7	73.6	10.00	8.53	NioLamSilt
7,000.0	28.31	158.05	6,869.9	-94.3	1,235.5	89.2	10.00	8.99	
7,100.0	37.62	164.80	6,953.8	-145.9	1,252.4	140.7	10.00	9.31	
7,200.0	47.18	169.16	7,027.5	-211.6	1,267.3	206.2	10.00	9.56	
7,300.0	56.87	172.34	7,089.0	-289.3	1,279.9	283.9	10.00	9.68	
7,400.0	66.62	174.87	7,136.3	-376.7	1,289.6	371.3	10.00	9.75	
7,500.0	76.40	177.06	7,168.0	-471.2	1,296.2	465.7	10.00	9.78	
7,600.0	86.20	179.07	7,183.1	-569.9	1,299.5	564.4	10.00	9.80	
7,659.5	92.03	180.24	7,184.0	-629.3	1,299.8	623.9	10.00	9.81	Landing Pt @ 7659' MD; 92°
7,700.0	92.04	180.24	7,182.6	-669.8	1,299.7	664.3	0.01	0.01	
7,800.0	92.04	180.24	7,179.0	-769.7	1,299.3	764.3	0.00	0.00	
7,900.0	92.04	180.24	7,175.5	-869.7	1,298.8	864.2	0.00	0.00	
8,000.0	92.04	180.24	7,171.9	-969.6	1,298.4	964.1	0.00	0.00	
8,100.0	92.04	180.24	7,168.3	-1,069.5	1,298.0	1,064.1	0.00	0.00	
8,200.0	92.04	180.24	7,164.8	-1,169.5	1,297.6	1,164.0	0.00	0.00	
8,300.0	92.04	180.24	7,161.2	-1,269.4	1,297.2	1,264.0	0.00	0.00	
8,400.0	92.04	180.24	7,157.7	-1,369.3	1,296.8	1,363.9	0.00	0.00	
8,500.0	92.04	180.24	7,154.1	-1,469.3	1,296.3	1,463.8	0.00	0.00	
8,600.0	92.04	180.24	7,150.6	-1,569.2	1,295.9	1,563.8	0.00	0.00	
8,700.0	92.04	180.24	7,147.0	-1,669.1	1,295.5	1,663.7	0.00	0.00	
8,800.0	92.04	180.24	7,143.5	-1,769.1	1,295.1	1,763.6	0.00	0.00	
8,900.0	92.04	180.24	7,139.9	-1,869.0	1,294.7	1,863.6	0.00	0.00	
9,000.0	92.04	180.24	7,136.4	-1,969.0	1,294.3	1,963.5	0.00	0.00	
9,100.0	92.04	180.24	7,132.8	-2,068.9	1,293.8	2,063.5	0.00	0.00	
9,200.0	92.04	180.24	7,129.2	-2,168.8	1,293.4	2,163.4	0.00	0.00	
9,300.0	92.04	180.24	7,125.7	-2,268.8	1,293.0	2,263.3	0.00	0.00	
9,400.0	92.04	180.24	7,122.1	-2,368.7	1,292.6	2,363.3	0.00	0.00	
9,500.0	92.04	180.24	7,118.6	-2,468.6	1,292.2	2,463.2	0.00	0.00	
9,600.0	92.04	180.24	7,115.0	-2,568.6	1,291.8	2,563.1	0.00	0.00	

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Project:	McKay Fork	**MD Reference:**	WELL @ 6756.0usft (Original Well Elev)
Site:	S12-T7S-R100W (O12 8100)	**North Reference:**	True
Well:	DHS10C-18 O12 8100	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft	Build Rate (°/100u	Comments / Formations
9,700.0	92.04	180.24	7,111.5	-2,668.5	1,291.3	2,663.1	0.00	0.00	
9,800.0	92.04	180.24	7,107.9	-2,768.4	1,290.9	2,763.0	0.00	0.00	
9,900.0	92.04	180.24	7,104.4	-2,868.4	1,290.5	2,862.9	0.00	0.00	
10,000.0	92.04	180.24	7,100.8	-2,968.3	1,290.1	2,962.9	0.00	0.00	
10,100.0	92.04	180.24	7,097.3	-3,068.3	1,289.7	3,062.8	0.00	0.00	
10,200.0	92.04	180.24	7,093.7	-3,168.2	1,289.3	3,162.8	0.00	0.00	
10,300.0	92.04	180.24	7,090.1	-3,268.1	1,288.8	3,262.7	0.00	0.00	
10,400.0	92.04	180.24	7,086.6	-3,368.1	1,288.4	3,362.6	0.00	0.00	
10,500.0	92.04	180.24	7,083.0	-3,468.0	1,288.0	3,462.6	0.00	0.00	
10,600.0	92.04	180.24	7,079.5	-3,567.9	1,287.6	3,562.5	0.00	0.00	
10,700.0	92.04	180.24	7,075.9	-3,667.9	1,287.2	3,662.4	0.00	0.00	
10,800.0	92.04	180.24	7,072.4	-3,767.8	1,286.8	3,762.4	0.00	0.00	
10,900.0	92.04	180.24	7,068.8	-3,867.7	1,286.3	3,862.3	0.00	0.00	
11,000.0	92.04	180.24	7,065.3	-3,967.7	1,285.9	3,962.3	0.00	0.00	
11,100.0	92.04	180.24	7,061.7	-4,067.6	1,285.5	4,062.2	0.00	0.00	
11,200.0	92.04	180.24	7,058.2	-4,167.5	1,285.1	4,162.1	0.00	0.00	
11,300.0	92.04	180.24	7,054.6	-4,267.5	1,284.7	4,262.1	0.00	0.00	
11,400.0	92.04	180.24	7,051.0	-4,367.4	1,284.3	4,362.0	0.00	0.00	
11,500.0	92.04	180.24	7,047.5	-4,467.4	1,283.8	4,461.9	0.00	0.00	
11,600.0	92.04	180.24	7,043.9	-4,567.3	1,283.4	4,561.9	0.00	0.00	
11,700.0	92.04	180.24	7,040.4	-4,667.2	1,283.0	4,661.8	0.00	0.00	
11,800.0	92.04	180.24	7,036.8	-4,767.2	1,282.6	4,761.7	0.00	0.00	
11,900.0	92.04	180.24	7,033.3	-4,867.1	1,282.2	4,861.7	0.00	0.00	
12,000.0	92.04	180.24	7,029.7	-4,967.0	1,281.8	4,961.6	0.00	0.00	
12,100.0	92.04	180.24	7,026.2	-5,067.0	1,281.3	5,061.6	0.00	0.00	
12,200.0	92.04	180.24	7,022.6	-5,166.9	1,280.9	5,161.5	0.00	0.00	
12,300.0	92.04	180.24	7,019.1	-5,266.8	1,280.5	5,261.4	0.00	0.00	
12,400.0	92.04	180.24	7,015.5	-5,366.8	1,280.1	5,361.4	0.00	0.00	
12,500.0	92.04	180.24	7,012.0	-5,466.7	1,279.7	5,461.3	0.00	0.00	
12,600.0	92.04	180.24	7,008.4	-5,566.7	1,279.3	5,561.2	0.00	0.00	
12,700.0	92.04	180.24	7,004.8	-5,666.6	1,278.8	5,661.2	0.00	0.00	
12,800.0	92.04	180.24	7,001.3	-5,766.5	1,278.4	5,761.1	0.00	0.00	
12,900.0	92.04	180.24	6,997.7	-5,866.5	1,278.0	5,861.1	0.00	0.00	
13,000.0	92.04	180.24	6,994.2	-5,966.4	1,277.6	5,961.0	0.00	0.00	
13,061.3	92.04	180.24	6,992.0	-6,027.7	1,277.3	6,022.3	0.00	0.00	TD at 13061.3

Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
DHS10C-18 O12 PBHL - plan hits target center - Point	0.00	0.00	6,992.0	-6,027.7	1,277.3	1,021,793.65	2,155,125.57	39° 21' 14.69 N	108° 29' 16.89 W
DHS10C-18 O12 LP - plan hits target center - Point	0.00	0.00	7,184.0	-629.3	1,299.8	1,027,188.16	2,155,330.21	39° 22' 8.04 N	108° 29' 16.60 W

Database:	USA EDM 5000 Multi Users DB	**Local Co-ordinate Reference:**	Well DHS10C-18 O12 8100
Company:	EnCana Oil & Gas (USA) Inc	**TVD Reference:**	WELL @ 6756.0usft (Original Well Elev)
Project:	McKay Fork	**MD Reference:**	WELL @ 6756.0usft (Original Well Elev)
Site:	S12-T7S-R100W (O12 8100)	**North Reference:**	True
Well:	DHS10C-18 O12 8100	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,208.7	3,161.0	Rollins		0.00	
4,887.3	4,807.0	Mancos Marker		0.00	
6,172.2	6,067.0	Niobrara		0.00	
6,962.1	6,836.0	NioLamSilt		0.00	

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
500.0	500.0	0.0	0.0	KOP @ 500'
876.9	874.5	-1.1	37.1	EOB; Inc=11.3°
6,742.5	6,626.2	-36.0	1,186.6	Start 10° build @ 6742' MD
7,659.5	7,184.0	-629.3	1,299.8	Landing Pt @ 7659' MD; 92°
13,061.3	6,992.0	-6,027.7	1,277.3	TD at 13061.3