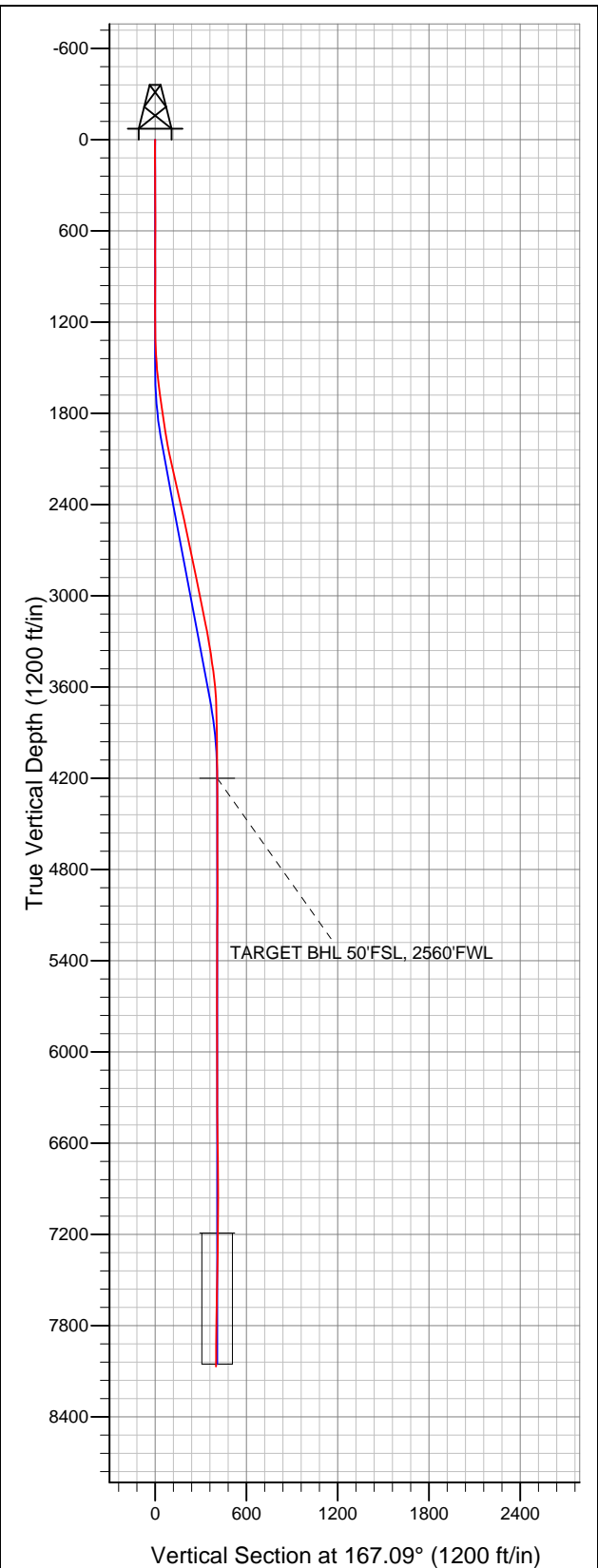


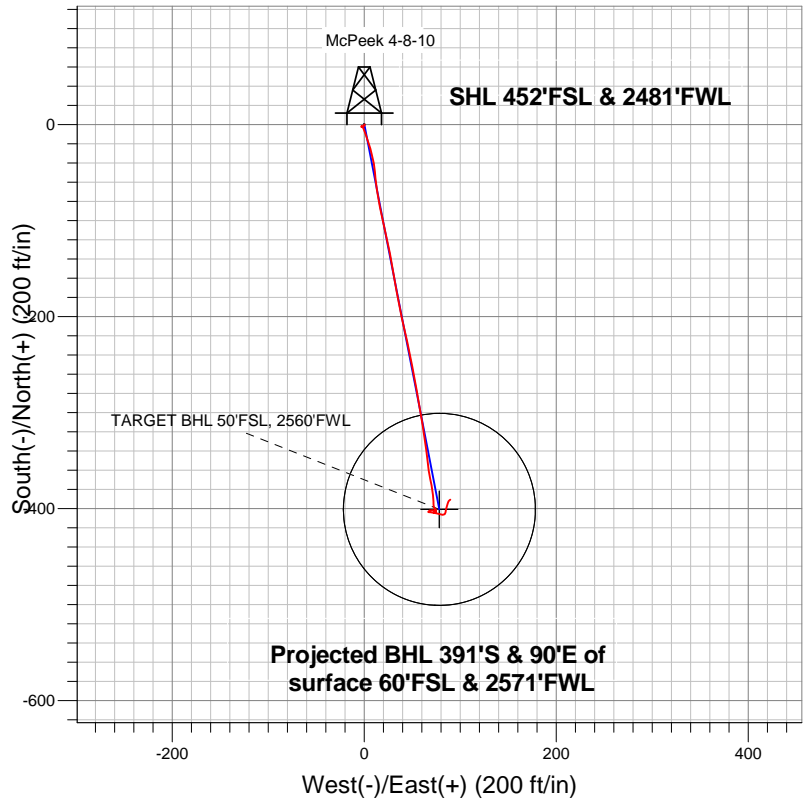


Well Name: McPeek 4-8-10

Surface Location: McPeek 2-8-10 Pad Sec.10-T2N-R66W
North American Datum 1983 US State Plane 1983 Colorado Northern Zone
Ground Elevation: 4988.0
+N/-S 0.0 +E/-W 0.0 Northing 1297118.49 Easting 3205778.07 Latitude 40.146640 Longitude -104.763890 Slot
Original Well Elev WELL @ 5001.0ft (Original Well Elev)



EnCana Oil & Gas Weld County CO



LEGEND

- McPeek 4-8-10, Wellbore #1, Plan #1 (8-14-13)R V0
- Wellbore #1

Final Survey Plot

Projected Final Survey -
8106'MD & 8069'TVD @ 400'VS
1.3 deg Inc 61.2 deg AZ

Project: SEC.10-T2N-R66W
Site: McPeek 2-8-10 Pad Sec.10-T2N-R66W
Well: McPeek 4-8-10
Plan: Wellbore #1



EnCana Oil & Gas Weld County CO

SEC.10-T2N-R66W

McPeck 2-8-10 Pad Sec.10-T2N-R66W

McPeck 4-8-10

Wellbore #1

Design: Wellbore #1

Standard Survey Report

20 August, 2013

Company:	EnCana Oil & Gas Weld County CO	Local Co-ordinate Reference:	Well McPeek 4-8-10
Project:	SEC.10-T2N-R66W	TVD Reference:	WELL @ 5001.0ft (Original Well Elev)
Site:	McPeek 2-8-10 Pad Sec.10-T2N-R66W	MD Reference:	WELL @ 5001.0ft (Original Well Elev)
Well:	McPeek 4-8-10	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Landmark

Project	SEC.10-T2N-R66W, Weld County, Colorado		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		Using Well Reference Point
Map Zone:	Colorado Northern Zone		Using geodetic scale factor

Site	McPeek 2-8-10 Pad Sec.10-T2N-R66W		
Site Position:		Northing:	1,297,081.80 ft
From:	Lat/Long	Easting:	3,205,744.82 ft
Position Uncertainty:	0.0 ft	Slot Radius:	"
		Latitude:	40.146540
		Longitude:	-104.764010
		Grid Convergence:	0.48 °

Well	McPeek 4-8-10		
Well Position	+N/-S	0.0 ft	Northing: 1,297,118.49 ft
	+E/-W	0.0 ft	Easting: 3,205,778.07 ft
Position Uncertainty	0.0 ft	Wellhead Elevation:	ft
		Latitude:	40.146640
		Longitude:	-104.763890
		Ground Level:	4,988.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	1/10/2013	8.63	66.79	52,831

Design	Wellbore #1				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.0	0.0	0.0	167.09	

Survey Program		Date 8/19/2013		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
48.0	8,106.0	Survey #1 (Wellbore #1)	MWD	MWD - Standard

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
48.0	0.30	46.80	48.0	0.1	0.1	-0.1	0.63	0.63	0.00	
138.0	0.20	113.20	138.0	0.2	0.4	-0.1	0.32	-0.11	73.78	
228.0	0.30	199.90	228.0	-0.1	0.5	0.2	0.39	0.11	96.33	
318.0	0.50	215.90	318.0	-0.6	0.2	0.7	0.25	0.22	17.78	
409.0	0.50	212.50	409.0	-1.3	-0.3	1.2	0.03	0.00	-3.74	
499.0	0.70	205.30	499.0	-2.1	-0.7	1.9	0.24	0.22	-8.00	
590.0	0.70	270.70	590.0	-2.6	-1.5	2.2	0.83	0.00	71.87	
681.0	1.00	313.30	681.0	-2.1	-2.7	1.4	0.74	0.33	46.81	
773.0	0.40	164.00	773.0	-1.8	-3.2	1.1	1.48	-0.65	-162.28	
864.0	0.40	148.00	864.0	-2.4	-2.9	1.7	0.12	0.00	-17.58	
1,041.0	0.80	3.00	1,041.0	-1.7	-2.5	1.1	0.65	0.23	-81.92	
1,170.0	0.40	165.30	1,170.0	-1.2	-2.3	0.7	0.92	-0.31	125.81	

Company:	EnCana Oil & Gas Weld County CO	Local Co-ordinate Reference:	Well McPeck 4-8-10
Project:	SEC.10-T2N-R66W	TVD Reference:	WELL @ 5001.0ft (Original Well Elev)
Site:	McPeck 2-8-10 Pad Sec.10-T2N-R66W	MD Reference:	WELL @ 5001.0ft (Original Well Elev)
Well:	McPeck 4-8-10	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Landmark

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
1,298.0	1.10	147.80	1,297.9	-2.7	-1.6	2.3	0.57	0.55	-13.67
1,426.0	3.20	159.50	1,425.9	-7.1	0.3	7.0	1.67	1.64	9.14
1,555.0	6.10	161.60	1,554.4	-17.0	3.8	17.4	2.25	2.25	1.63
1,683.0	7.70	165.60	1,681.5	-31.7	8.0	32.7	1.30	1.25	3.13
1,811.0	8.60	174.00	1,808.2	-49.5	11.2	50.8	1.16	0.70	6.56
1,940.0	8.90	172.60	1,935.7	-69.0	13.5	70.3	0.29	0.23	-1.09
2,068.0	12.00	167.50	2,061.6	-91.9	17.6	93.5	2.53	2.42	-3.98
2,196.0	12.80	167.90	2,186.6	-118.7	23.5	120.9	0.63	0.63	0.31
2,324.0	12.20	169.80	2,311.5	-145.9	28.8	148.6	0.57	-0.47	1.48
2,453.0	12.80	170.30	2,437.5	-173.4	33.7	176.5	0.47	0.47	0.39
2,581.0	12.30	167.40	2,562.4	-200.7	39.0	204.3	0.63	-0.39	-2.27
2,709.0	11.50	167.40	2,687.7	-226.4	44.8	230.7	0.63	-0.63	0.00
2,838.0	11.60	169.10	2,814.1	-251.7	50.0	256.5	0.28	0.08	1.32
2,966.0	11.50	170.20	2,939.5	-276.9	54.6	282.1	0.19	-0.08	0.86
3,094.0	11.60	170.50	3,064.9	-302.2	58.9	307.7	0.09	0.08	0.23
3,223.0	11.40	171.10	3,191.3	-327.6	63.1	333.4	0.18	-0.16	0.47
3,351.0	9.30	174.40	3,317.2	-350.4	66.0	356.3	1.70	-1.64	2.58
3,479.0	8.10	168.80	3,443.7	-369.5	68.8	375.5	1.15	-0.94	-4.38
3,607.0	6.50	173.00	3,570.7	-385.5	71.4	391.8	1.32	-1.25	3.28
3,736.0	2.50	182.30	3,699.3	-395.6	72.2	401.7	3.14	-3.10	7.21
3,864.0	1.20	130.80	3,827.2	-399.3	73.1	405.5	1.55	-1.02	-40.23
4,035.0	0.60	147.50	3,998.2	-401.2	74.9	407.8	0.38	-0.35	9.77
4,206.0	0.70	241.70	4,169.2	-402.4	74.5	408.9	0.56	0.06	55.09
4,236.8	0.67	238.04	4,200.0	-402.6	74.2	409.0	0.17	-0.08	-11.89
TARGET BHL 50'FSL, 2560'FWL									
4,377.0	0.60	218.20	4,340.2	-403.6	73.0	409.8	0.17	-0.05	-14.15
4,548.0	0.40	324.00	4,511.2	-403.9	72.1	409.8	0.47	-0.12	61.87
4,719.0	0.40	121.50	4,682.1	-403.7	72.3	409.6	0.46	0.00	92.11
4,890.0	0.70	106.70	4,853.1	-404.3	73.8	410.6	0.19	0.18	-8.65
5,061.0	0.40	340.30	5,024.1	-404.0	74.6	410.5	0.58	-0.18	-73.92
5,233.0	0.50	344.40	5,196.1	-402.8	74.2	409.1	0.06	0.06	2.38
5,404.0	0.20	291.50	5,367.1	-401.9	73.7	408.2	0.24	-0.18	-30.94
5,575.0	0.50	271.60	5,538.1	-401.8	72.7	407.9	0.19	0.18	-11.64
5,746.0	0.80	281.80	5,709.1	-401.5	70.8	407.2	0.19	0.18	5.96
5,917.0	1.00	242.60	5,880.1	-402.0	68.3	407.1	0.37	0.12	-22.92
6,088.0	0.40	216.20	6,051.1	-403.1	66.6	407.8	0.39	-0.35	-15.44
6,259.0	0.40	84.90	6,222.1	-403.6	66.8	408.3	0.43	0.00	-76.78
6,430.0	1.20	98.60	6,393.1	-403.8	69.2	409.0	0.48	0.47	8.01
6,601.0	1.50	97.60	6,564.0	-404.4	73.2	410.5	0.18	0.18	-0.58
6,772.0	1.60	109.00	6,735.0	-405.4	77.7	412.5	0.19	0.06	6.67
6,943.0	1.10	93.70	6,905.9	-406.3	81.6	414.3	0.36	-0.29	-8.95
7,114.0	0.60	42.40	7,076.9	-405.8	83.8	414.2	0.50	-0.29	-30.00
7,228.1	0.70	14.33	7,191.0	-404.6	84.4	413.3	0.29	0.09	-24.60
TARGET CIRCLE 50'FSL & 2560'FWL									
7,285.0	0.80	4.20	7,247.9	-403.9	84.5	412.6	0.29	0.17	-17.81
7,456.0	1.40	17.20	7,418.8	-400.7	85.2	409.6	0.38	0.35	7.60
7,627.0	1.10	14.40	7,589.8	-397.1	86.2	406.4	0.18	-0.18	-1.64
7,799.0	0.80	12.50	7,761.8	-394.4	86.9	403.8	0.18	-0.17	-1.10
7,970.0	0.80	30.30	7,932.8	-392.2	87.8	401.9	0.14	0.00	10.41
8,059.0	1.10	50.80	8,021.8	-391.1	88.7	401.0	0.50	0.34	23.03
8,106.0	1.30	61.20	8,068.7	-390.5	89.5	400.7	0.63	0.43	22.13

Company:	EnCana Oil & Gas Weld County CO	Local Co-ordinate Reference:	Well McPeek 4-8-10
Project:	SEC.10-T2N-R66W	TVD Reference:	WELL @ 5001.0ft (Original Well Elev)
Site:	McPeek 2-8-10 Pad Sec.10-T2N-R66W	MD Reference:	WELL @ 5001.0ft (Original Well Elev)
Well:	McPeek 4-8-10	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Landmark

Checked By: _____	Approved By: _____	Date: _____
-------------------	--------------------	-------------