

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well UWF15A-03 H04 596 (was 10D-03)
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 8292.98usft (Original Well Elev)
Project:	North Piceance	MD Reference:	WELL @ 8292.98usft (Original Well Elev)
Site:	H04 596 Pad	North Reference:	True
Well:	UWF15A-03 H04 596 (was 10D-03)	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	PLAN #4		

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		H04 596 Pad			
Site Position:		Northing:	1,671,067.51 usft	Latitude:	39.645658
From:	Lat/Long	Easting:	2,249,603.43 usft	Longitude:	-108.165139
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	-1.68 °

Well	UWF15A-03 H04 596 (was 10D-03)					
Well Position	+N/-S	0.00 usft	Northing:	1,671,141.41 usft	Latitude:	39.645864
	+E/-W	0.00 usft	Easting:	2,249,636.90 usft	Longitude:	-108.165028
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	8,259.98 usft

Wellbore	DD				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	4/19/2012	10.34	65.81	52,206

Design	PLAN #4			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	111.40

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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
500.00	6.00	100.00	499.63	-1.82	10.30	3.00	3.00	0.00	100.00	
1,435.17	33.92	111.32	1,370.15	-107.26	307.45	3.00	2.99	1.21	13.46	
8,064.68	33.92	111.32	6,871.64	-1,452.00	3,753.56	0.00	0.00	0.00	0.00	
9,195.23	0.00	0.00	7,937.31	-1,570.13	4,056.29	3.00	-3.00	0.00	180.00	UWF15A-03 TGT 9.11
9,229.92	0.35	237.99	7,972.00	-1,570.19	4,056.20	1.00	1.00	-351.73	237.99	
12,327.95	0.35	237.99	11,069.98	-1,580.13	4,040.30	0.00	0.00	0.00	0.00	UWF15A-03 BHL 9.11
12,882.41	0.35	237.99	11,624.42	-1,581.91	4,037.45	0.00	0.00	0.00	0.00	

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Wellbore: DD
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Local Co-ordinate Reference: Well UWF15A-03 H04 596 (was 10D-03)
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MD Reference: WELL @ 8292.98usft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	KOP @ 300'
400.00	3.00	100.00	399.95	-0.45	2.58	2.57	3.00	3.00	
500.00	6.00	100.00	499.63	-1.82	10.30	10.26	3.00	3.00	START BUILD/TURN
600.00	8.94	104.49	598.78	-4.67	22.98	23.10	3.00	2.94	
700.00	11.92	106.77	697.11	-9.60	40.40	41.11	3.00	2.97	
800.00	14.90	108.14	794.38	-16.58	62.51	64.25	3.00	2.98	
900.00	17.89	109.07	890.30	-25.60	89.25	92.43	3.00	2.99	
1,000.00	20.88	109.73	984.62	-36.64	120.54	125.60	3.00	2.99	
1,100.00	23.87	110.24	1,077.08	-49.66	156.31	163.66	3.00	2.99	
1,107.57	24.10	110.27	1,084.00	-50.73	159.20	166.74	3.00	2.99	A GROOVE
1,200.00	26.87	110.64	1,167.42	-64.63	196.46	206.50	3.00	3.00	
1,285.72	29.44	110.92	1,243.00	-78.98	234.27	246.94	3.00	3.00	B GROOVE
1,300.00	29.87	110.96	1,255.40	-81.50	240.87	254.00	3.00	3.00	
1,331.97	30.82	111.05	1,283.00	-87.30	255.95	270.15	3.00	3.00	B GROOVE BASE
1,400.00	32.86	111.23	1,340.78	-100.24	289.42	306.04	3.00	3.00	
1,435.17	33.92	111.32	1,370.15	-107.26	307.45	325.40	3.00	3.00	EOB; INC=33.92°
1,500.00	33.92	111.32	1,423.95	-120.41	341.15	361.57	0.00	0.00	
1,600.00	33.92	111.32	1,506.93	-140.70	393.14	417.37	0.00	0.00	
1,700.00	33.92	111.32	1,589.92	-160.98	445.12	473.17	0.00	0.00	
1,800.00	33.92	111.32	1,672.90	-181.27	497.10	528.97	0.00	0.00	
1,900.00	33.92	111.32	1,755.89	-201.55	549.08	584.77	0.00	0.00	
2,000.00	33.92	111.32	1,838.87	-221.84	601.06	640.56	0.00	0.00	
2,100.00	33.92	111.32	1,921.85	-242.12	653.04	696.36	0.00	0.00	
2,200.00	33.92	111.32	2,004.84	-262.40	705.02	752.16	0.00	0.00	
2,300.00	33.92	111.32	2,087.82	-282.69	757.00	807.96	0.00	0.00	
2,361.66	33.92	111.32	2,139.00	-295.20	789.06	842.37	0.00	0.00	GARDEN GULCH
2,400.00	33.92	111.32	2,170.81	-302.97	808.99	863.76	0.00	0.00	
2,500.00	33.92	111.32	2,253.79	-323.26	860.97	919.56	0.00	0.00	
2,600.00	33.92	111.32	2,336.78	-343.54	912.95	975.36	0.00	0.00	
2,700.00	33.92	111.32	2,419.76	-363.82	964.93	1,031.16	0.00	0.00	
2,800.00	33.92	111.32	2,502.75	-384.11	1,016.91	1,086.95	0.00	0.00	
2,900.00	33.92	111.32	2,585.73	-404.39	1,068.89	1,142.75	0.00	0.00	
3,000.00	33.92	111.32	2,668.72	-424.68	1,120.87	1,198.55	0.00	0.00	
3,100.00	33.92	111.32	2,751.70	-444.96	1,172.86	1,254.35	0.00	0.00	
3,200.00	33.92	111.32	2,834.69	-465.24	1,224.84	1,310.15	0.00	0.00	
3,300.00	33.92	111.32	2,917.67	-485.53	1,276.82	1,365.95	0.00	0.00	
3,400.00	33.92	111.32	3,000.66	-505.81	1,328.80	1,421.75	0.00	0.00	
3,500.00	33.92	111.32	3,083.64	-526.10	1,380.78	1,477.55	0.00	0.00	
3,600.00	33.92	111.32	3,166.63	-546.38	1,432.76	1,533.34	0.00	0.00	
3,648.64	33.92	111.32	3,206.99	-556.25	1,458.05	1,560.48	0.00	0.00	WASATCH FM
3,700.00	33.92	111.32	3,249.61	-566.66	1,484.74	1,589.14	0.00	0.00	
3,800.00	33.92	111.32	3,332.60	-586.95	1,536.72	1,644.94	0.00	0.00	
3,900.00	33.92	111.32	3,415.58	-607.23	1,588.71	1,700.74	0.00	0.00	
4,000.00	33.92	111.32	3,498.57	-627.52	1,640.69	1,756.54	0.00	0.00	
4,100.00	33.92	111.32	3,581.55	-647.80	1,692.67	1,812.34	0.00	0.00	
4,200.00	33.92	111.32	3,664.54	-668.08	1,744.65	1,868.14	0.00	0.00	
4,300.00	33.92	111.32	3,747.52	-688.37	1,796.63	1,923.93	0.00	0.00	
4,400.00	33.92	111.32	3,830.51	-708.65	1,848.61	1,979.73	0.00	0.00	
4,500.00	33.92	111.32	3,913.49	-728.94	1,900.59	2,035.53	0.00	0.00	

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4,600.00	33.92	111.32	3,996.48	-749.22	1,952.57	2,091.33	0.00	0.00	
4,700.00	33.92	111.32	4,079.46	-769.51	2,004.56	2,147.13	0.00	0.00	
4,800.00	33.92	111.32	4,162.45	-789.79	2,056.54	2,202.93	0.00	0.00	
4,900.00	33.92	111.32	4,245.43	-810.07	2,108.52	2,258.73	0.00	0.00	
5,000.00	33.92	111.32	4,328.42	-830.36	2,160.50	2,314.53	0.00	0.00	
5,100.00	33.92	111.32	4,411.40	-850.64	2,212.48	2,370.32	0.00	0.00	
5,200.00	33.92	111.32	4,494.39	-870.93	2,264.46	2,426.12	0.00	0.00	
5,300.00	33.92	111.32	4,577.37	-891.21	2,316.44	2,481.92	0.00	0.00	
5,400.00	33.92	111.32	4,660.36	-911.49	2,368.43	2,537.72	0.00	0.00	
5,500.00	33.92	111.32	4,743.34	-931.78	2,420.41	2,593.52	0.00	0.00	
5,600.00	33.92	111.32	4,826.33	-952.06	2,472.39	2,649.32	0.00	0.00	
5,700.00	33.92	111.32	4,909.31	-972.35	2,524.37	2,705.12	0.00	0.00	
5,800.00	33.92	111.32	4,992.30	-992.63	2,576.35	2,760.91	0.00	0.00	
5,900.00	33.92	111.32	5,075.28	-1,012.91	2,628.33	2,816.71	0.00	0.00	
6,000.00	33.92	111.32	5,158.27	-1,033.20	2,680.31	2,872.51	0.00	0.00	
6,100.00	33.92	111.32	5,241.25	-1,053.48	2,732.29	2,928.31	0.00	0.00	
6,200.00	33.92	111.32	5,324.24	-1,073.77	2,784.28	2,984.11	0.00	0.00	
6,216.57	33.92	111.32	5,337.99	-1,077.13	2,792.89	2,993.36	0.00	0.00	WASATCH G
6,300.00	33.92	111.32	5,407.22	-1,094.05	2,836.26	3,039.91	0.00	0.00	
6,400.00	33.92	111.32	5,490.21	-1,114.33	2,888.24	3,095.71	0.00	0.00	
6,500.00	33.92	111.32	5,573.19	-1,134.62	2,940.22	3,151.51	0.00	0.00	
6,600.00	33.92	111.32	5,656.18	-1,154.90	2,992.20	3,207.30	0.00	0.00	
6,700.00	33.92	111.32	5,739.16	-1,175.19	3,044.18	3,263.10	0.00	0.00	
6,800.00	33.92	111.32	5,822.15	-1,195.47	3,096.16	3,318.90	0.00	0.00	
6,900.00	33.92	111.32	5,905.13	-1,215.75	3,148.14	3,374.70	0.00	0.00	
7,000.00	33.92	111.32	5,988.12	-1,236.04	3,200.13	3,430.50	0.00	0.00	
7,100.00	33.92	111.32	6,071.10	-1,256.32	3,252.11	3,486.30	0.00	0.00	
7,200.00	33.92	111.32	6,154.09	-1,276.61	3,304.09	3,542.10	0.00	0.00	
7,300.00	33.92	111.32	6,237.07	-1,296.89	3,356.07	3,597.90	0.00	0.00	
7,400.00	33.92	111.32	6,320.06	-1,317.18	3,408.05	3,653.69	0.00	0.00	
7,500.00	33.92	111.32	6,403.04	-1,337.46	3,460.03	3,709.49	0.00	0.00	
7,600.00	33.92	111.32	6,486.03	-1,357.74	3,512.01	3,765.29	0.00	0.00	
7,700.00	33.92	111.32	6,569.01	-1,378.03	3,564.00	3,821.09	0.00	0.00	
7,800.00	33.92	111.32	6,652.00	-1,398.31	3,615.98	3,876.89	0.00	0.00	
7,900.00	33.92	111.32	6,734.98	-1,418.60	3,667.96	3,932.69	0.00	0.00	
8,000.00	33.92	111.32	6,817.97	-1,438.88	3,719.94	3,988.49	0.00	0.00	
8,064.68	33.92	111.32	6,871.64	-1,452.00	3,753.56	4,024.58	0.00	0.00	Start Drop -3.00
8,100.00	32.86	111.32	6,901.13	-1,459.06	3,771.67	4,044.01	3.00	-3.00	
8,200.00	29.86	111.32	6,986.52	-1,477.98	3,820.14	4,096.04	3.00	-3.00	
8,300.00	26.86	111.32	7,074.51	-1,495.24	3,864.38	4,143.53	3.00	-3.00	
8,400.00	23.86	111.32	7,164.86	-1,510.81	3,904.27	4,186.36	3.00	-3.00	
8,500.00	20.86	111.32	7,257.33	-1,524.64	3,939.70	4,224.39	3.00	-3.00	
8,600.00	17.86	111.32	7,351.67	-1,536.68	3,970.58	4,257.53	3.00	-3.00	
8,695.21	15.00	111.32	7,442.99	-1,546.47	3,995.66	4,284.46	3.00	-3.00	WILLIAMS FORK @ 15°
8,700.00	14.86	111.32	7,447.61	-1,546.92	3,996.81	4,285.69	3.00	-3.00	
8,800.00	11.86	111.32	7,544.90	-1,555.32	4,018.33	4,308.79	3.00	-3.00	
8,900.00	8.86	111.32	7,643.26	-1,561.85	4,035.07	4,326.76	3.00	-3.00	
9,000.00	5.86	111.32	7,742.42	-1,566.51	4,047.00	4,339.57	3.00	-3.00	
9,100.00	2.86	111.32	7,842.12	-1,569.27	4,054.08	4,347.16	3.00	-3.00	
9,195.23	0.00	0.00	7,937.31	-1,570.13	4,056.29	4,349.54	3.00	-3.00	EOD; INC=0°
9,200.00	0.05	237.99	7,942.08	-1,570.13	4,056.29	4,349.54	1.00	1.00	
9,229.92	0.35	237.99	7,972.00	-1,570.19	4,056.20	4,349.48	1.00	1.00	

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9,300.00	0.35	237.99	8,042.08	-1,570.41	4,055.84	4,349.22	0.00	0.00	
9,400.00	0.35	237.99	8,142.08	-1,570.73	4,055.33	4,348.86	0.00	0.00	
9,500.00	0.35	237.99	8,242.08	-1,571.05	4,054.81	4,348.50	0.00	0.00	
9,600.00	0.35	237.99	8,342.07	-1,571.37	4,054.30	4,348.14	0.00	0.00	
9,700.00	0.35	237.99	8,442.07	-1,571.69	4,053.79	4,347.78	0.00	0.00	
9,800.00	0.35	237.99	8,542.07	-1,572.02	4,053.27	4,347.42	0.00	0.00	
9,900.00	0.35	237.99	8,642.07	-1,572.34	4,052.76	4,347.06	0.00	0.00	
10,000.00	0.35	237.99	8,742.07	-1,572.66	4,052.25	4,346.70	0.00	0.00	
10,100.00	0.35	237.99	8,842.07	-1,572.98	4,051.73	4,346.33	0.00	0.00	
10,200.00	0.35	237.99	8,942.06	-1,573.30	4,051.22	4,345.97	0.00	0.00	
10,300.00	0.35	237.99	9,042.06	-1,573.62	4,050.71	4,345.61	0.00	0.00	
10,400.00	0.35	237.99	9,142.06	-1,573.94	4,050.19	4,345.25	0.00	0.00	
10,500.00	0.35	237.99	9,242.06	-1,574.26	4,049.68	4,344.89	0.00	0.00	
10,600.00	0.35	237.99	9,342.06	-1,574.58	4,049.17	4,344.53	0.00	0.00	
10,700.00	0.35	237.99	9,442.05	-1,574.90	4,048.65	4,344.17	0.00	0.00	
10,800.00	0.35	237.99	9,542.05	-1,575.22	4,048.14	4,343.81	0.00	0.00	
10,900.00	0.35	237.99	9,642.05	-1,575.55	4,047.63	4,343.45	0.00	0.00	
11,000.00	0.35	237.99	9,742.05	-1,575.87	4,047.11	4,343.09	0.00	0.00	
11,100.00	0.35	237.99	9,842.05	-1,576.19	4,046.60	4,342.73	0.00	0.00	
11,200.00	0.35	237.99	9,942.05	-1,576.51	4,046.09	4,342.36	0.00	0.00	
11,300.00	0.35	237.99	10,042.04	-1,576.83	4,045.57	4,342.00	0.00	0.00	
11,400.00	0.35	237.99	10,142.04	-1,577.15	4,045.06	4,341.64	0.00	0.00	
11,500.00	0.35	237.99	10,242.04	-1,577.47	4,044.55	4,341.28	0.00	0.00	
11,600.00	0.35	237.99	10,342.04	-1,577.79	4,044.03	4,340.92	0.00	0.00	
11,700.00	0.35	237.99	10,442.04	-1,578.11	4,043.52	4,340.56	0.00	0.00	
11,800.00	0.35	237.99	10,542.03	-1,578.43	4,043.01	4,340.20	0.00	0.00	
11,900.00	0.35	237.99	10,642.03	-1,578.75	4,042.49	4,339.84	0.00	0.00	
12,000.00	0.35	237.99	10,742.03	-1,579.08	4,041.98	4,339.48	0.00	0.00	
12,100.00	0.35	237.99	10,842.03	-1,579.40	4,041.47	4,339.12	0.00	0.00	
12,200.00	0.35	237.99	10,942.03	-1,579.72	4,040.95	4,338.76	0.00	0.00	
12,300.00	0.35	237.99	11,042.03	-1,580.04	4,040.44	4,338.39	0.00	0.00	
12,327.95	0.35	237.99	11,069.98	-1,580.13	4,040.30	4,338.29	0.00	0.00	TD @ 12,327' MD - ROLLINS
12,400.00	0.35	237.99	11,142.02	-1,580.36	4,039.93	4,338.03	0.00	0.00	
12,500.00	0.35	237.99	11,242.02	-1,580.68	4,039.41	4,337.67	0.00	0.00	
12,584.96	0.35	237.99	11,326.98	-1,580.95	4,038.98	4,337.37	0.00	0.00	COZZETTE
12,600.00	0.35	237.99	11,342.02	-1,581.00	4,038.90	4,337.31	0.00	0.00	
12,700.00	0.35	237.99	11,442.02	-1,581.32	4,038.39	4,336.95	0.00	0.00	
12,766.96	0.35	237.99	11,508.98	-1,581.54	4,038.04	4,336.71	0.00	0.00	CORCORAN
12,800.00	0.35	237.99	11,542.02	-1,581.64	4,037.87	4,336.59	0.00	0.00	
12,882.41	0.35	237.99	11,624.42	-1,581.91	4,037.45	4,336.29	0.00	0.00	PERMIT TD @ 12,624' TVD

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well UWF15A-03 H04 596 (was 10D-03)
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 8292.98usft (Original Well Elev)
Project:	North Piceance	MD Reference:	WELL @ 8292.98usft (Original Well Elev)
Site:	H04 596 Pad	North Reference:	True
Well:	UWF15A-03 H04 596 (was 10D-03)	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	PLAN #4		

Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
UWF15A-03 BHL (2)	0.00	0.00	11,069.98	-2,112.35	4,023.30	1,668,911.96	2,253,596.51	39.640064	-108.150742
- plan misses target center by 532.49usft at 12329.75usft MD (11071.77 TVD, -1580.13 N, 4040.29 E)									
- Rectangle (sides W30.00 H50.00 D0.00)									
UWF10D-03 TGT	0.00	0.00	7,442.99	-1,570.09	4,055.39	1,669,453.05	2,253,644.49	39.641553	-108.150627
- plan misses target center by 62.13usft at 8710.05usft MD (7457.34 TVD, -1547.85 N, 3999.19 E)									
- Point									
UWF15A-03 BHL 9.19	0.00	0.00	11,069.98	-1,580.13	4,040.30	1,669,443.46	2,253,629.11	39.641525	-108.150681
- plan hits target center									
- Rectangle (sides W30.00 H50.00 D0.00)									
UWF15A-03 TGT 9.19	0.00	0.00	7,937.31	-1,570.13	4,056.29	1,669,452.98	2,253,645.39	39.641552	-108.150624
- plan hits target center									
- Point									
UWF10D-03 BHL	0.00	0.00	11,069.98	-1,580.13	4,040.42	1,669,443.45	2,253,629.24	39.641525	-108.150681
- plan misses target center by 0.13usft at 12327.95usft MD (11069.98 TVD, -1580.13 N, 4040.30 E)									
- Rectangle (sides W30.00 H50.00 D0.00)									

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,107.57	1,084.00	A GROOVE				
1,285.72	1,243.00	B GROOVE				
1,331.97	1,283.00	B GROOVE BASE				
2,361.66	2,139.00	GARDEN GULCH				
3,648.64	3,206.99	WASATCH FM				
6,216.57	5,337.99	WASATCH G				
8,695.21	7,442.99	WILLIAMS FORK @ 15°				
12,327.95	11,069.98	ROLLINS				
12,584.96	11,326.98	COZZETTE				
12,766.96	11,508.98	CORCORAN				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
300.00	300.00	0.00	0.00	KOP @ 300'	
500.00	499.63	-1.82	10.30	START BUILD/TURN	
1,435.17	1,370.15	-107.26	307.45	EOB; INC=33.92°	
8,064.68	6,871.64	-1,452.00	3,753.56	Start Drop -3.00	
9,195.23	7,937.31	-1,570.13	4,056.29	EOD; INC=0°	
12,327.95	11,069.98	-1,570.19	4,056.20	TD @ 12,327' MD	
12,882.41	11,624.42	-1,580.13	4,040.30	PERMIT TD @ 12,624' TVD	