



Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well UWF13E-04 K04
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 8226.0ft (Original Well Elev)
Project:	North Piceance	MD Reference:	WELL @ 8226.0ft (Original Well Elev)
Site:	K04 Pad	North Reference:	True
Well:	UWF13E-04 K04	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #1		

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		K04 Pad			
Site Position:		Northing:	1,636,938.27 ft	Latitude:	39° 33' 11.18 N
From:	Lat/Long	Easting:	2,263,572.45 ft	Longitude:	108° 6' 43.51 W
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	-1.65 °

Well	UWF13E-04 K04					
Well Position	+N/-S	0.0 ft	Northing:	1,670,214.75 ft	Latitude:	39° 38' 35.09 N
	+E/-W	0.0 ft	Easting:	2,246,774.87 ft	Longitude:	108° 10' 30.38 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	8,193.0 ft

Wellbore	DD				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	4/12/2012	10.34	65.80	52,205

Design	Plan #1			
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	205.35

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	
300.0	0.00	0.00	300.0	0.0	0.0	0.00	0.00	0.00	0.00	
633.3	10.00	194.00	631.6	-28.2	-7.0	3.00	3.00	0.00	194.00	
1,064.0	22.59	205.27	1,044.3	-139.7	-51.6	3.00	2.92	2.62	19.61	
6,651.8	22.59	205.27	6,203.5	-2,080.4	-967.7	0.00	0.00	0.00	0.00	
7,404.6	0.00	0.00	6,937.0	-2,212.9	-1,030.2	3.00	-3.00	0.00	180.00	UWF13E-04 K04 TOC
9,146.0	0.39	236.16	8,678.4	-2,216.2	-1,035.1	0.02	0.02	-7.11	236.16	
10,934.7	0.39	236.16	10,467.0	-2,222.9	-1,045.2	0.00	0.00	0.00	0.00	UWF13E-04 K04 BHL
13,000.0	0.39	236.16	12,532.3	-2,230.7	-1,056.8	0.00	0.00	0.00	0.00	

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Project:	North Piceance	MD Reference:	WELL @ 8226.0ft (Original Well Elev)
Site:	K04 Pad	North Reference:	True
Well:	UWF13E-04 K04	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	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	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	KOP @ 300' MD
400.0	3.00	194.00	400.0	-2.5	-0.6	2.6	3.00	3.00	
500.0	6.00	194.00	499.6	-10.2	-2.5	10.3	3.00	3.00	
600.0	9.00	194.00	598.8	-22.8	-5.7	23.1	3.00	3.00	
633.3	10.00	194.00	631.6	-28.2	-7.0	28.4	3.00	3.00	Start 3° Build/Turn @ 633.3' MD
700.0	11.90	197.26	697.1	-40.3	-10.5	40.9	3.00	2.85	
800.0	14.80	200.57	794.4	-62.2	-18.0	63.9	3.00	2.90	
900.0	17.74	202.82	890.4	-88.2	-28.4	91.8	3.00	2.93	
967.2	19.72	203.96	954.0	-108.0	-37.0	113.4	3.00	2.95	A_GROOVE_TVD
1,000.0	20.69	204.44	984.8	-118.3	-41.6	124.7	3.00	2.96	
1,064.0	22.59	205.27	1,044.3	-139.7	-51.6	148.3	3.00	2.96	EOB @ 1064' MD; 22.59°
1,100.0	22.59	205.27	1,077.5	-152.2	-57.5	162.1	0.00	0.00	
1,138.4	22.59	205.27	1,113.0	-165.6	-63.8	176.9	0.00	0.00	B_GROOVE_TVD
1,181.8	22.59	205.27	1,153.0	-180.6	-70.9	193.5	0.00	0.00	B_GROOVE_BASE_TVD
1,200.0	22.59	205.27	1,169.8	-186.9	-73.9	200.6	0.00	0.00	
1,300.0	22.59	205.27	1,262.2	-221.7	-90.3	239.0	0.00	0.00	
1,400.0	22.59	205.27	1,354.5	-256.4	-106.6	277.4	0.00	0.00	
1,500.0	22.59	205.27	1,446.8	-291.1	-123.0	315.8	0.00	0.00	
1,600.0	22.59	205.27	1,539.2	-325.9	-139.4	354.2	0.00	0.00	
1,700.0	22.59	205.27	1,631.5	-360.6	-155.8	392.6	0.00	0.00	
1,800.0	22.59	205.27	1,723.8	-395.3	-172.2	431.0	0.00	0.00	
1,900.0	22.59	205.27	1,816.2	-430.1	-188.6	469.4	0.00	0.00	
2,000.0	22.59	205.27	1,908.5	-464.8	-205.0	507.8	0.00	0.00	
2,010.3	22.59	205.27	1,918.0	-468.4	-206.7	511.8	0.00	0.00	GARDEN_GULCH_TVD
2,100.0	22.59	205.27	2,000.8	-499.5	-221.4	546.2	0.00	0.00	
2,200.0	22.59	205.27	2,093.1	-534.3	-237.8	584.6	0.00	0.00	
2,300.0	22.59	205.27	2,185.5	-569.0	-254.2	623.0	0.00	0.00	
2,400.0	22.59	205.27	2,277.8	-603.7	-270.6	661.4	0.00	0.00	
2,500.0	22.59	205.27	2,370.1	-638.4	-287.0	699.8	0.00	0.00	
2,600.0	22.59	205.27	2,462.5	-673.2	-303.4	738.3	0.00	0.00	
2,700.0	22.59	205.27	2,554.8	-707.9	-319.8	776.7	0.00	0.00	
2,800.0	22.59	205.27	2,647.1	-742.6	-336.2	815.1	0.00	0.00	
2,900.0	22.59	205.27	2,739.5	-777.4	-352.6	853.5	0.00	0.00	
3,000.0	22.59	205.27	2,831.8	-812.1	-369.0	891.9	0.00	0.00	
3,100.0	22.59	205.27	2,924.1	-846.8	-385.4	930.3	0.00	0.00	
3,157.3	22.59	205.27	2,977.0	-866.7	-394.8	952.3	0.00	0.00	WASATCH_FM_TVD
3,200.0	22.59	205.27	3,016.4	-881.6	-401.8	968.7	0.00	0.00	
3,300.0	22.59	205.27	3,108.8	-916.3	-418.2	1,007.1	0.00	0.00	
3,400.0	22.59	205.27	3,201.1	-951.0	-434.5	1,045.5	0.00	0.00	
3,500.0	22.59	205.27	3,293.4	-985.8	-450.9	1,083.9	0.00	0.00	
3,600.0	22.59	205.27	3,385.8	-1,020.5	-467.3	1,122.3	0.00	0.00	
3,700.0	22.59	205.27	3,478.1	-1,055.2	-483.7	1,160.7	0.00	0.00	
3,800.0	22.59	205.27	3,570.4	-1,090.0	-500.1	1,199.1	0.00	0.00	
3,900.0	22.59	205.27	3,662.8	-1,124.7	-516.5	1,237.5	0.00	0.00	
4,000.0	22.59	205.27	3,755.1	-1,159.4	-532.9	1,276.0	0.00	0.00	
4,100.0	22.59	205.27	3,847.4	-1,194.2	-549.3	1,314.4	0.00	0.00	
4,200.0	22.59	205.27	3,939.8	-1,228.9	-565.7	1,352.8	0.00	0.00	
4,300.0	22.59	205.27	4,032.1	-1,263.6	-582.1	1,391.2	0.00	0.00	
4,400.0	22.59	205.27	4,124.4	-1,298.4	-598.5	1,429.6	0.00	0.00	

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Site:	K04 Pad	North Reference:	True
Well:	UWF13E-04 K04	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	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
4,500.0	22.59	205.27	4,216.7	-1,333.1	-614.9	1,468.0	0.00	0.00	
4,600.0	22.59	205.27	4,309.1	-1,367.8	-631.3	1,506.4	0.00	0.00	
4,700.0	22.59	205.27	4,401.4	-1,402.6	-647.7	1,544.8	0.00	0.00	
4,800.0	22.59	205.27	4,493.7	-1,437.3	-664.1	1,583.2	0.00	0.00	
4,900.0	22.59	205.27	4,586.1	-1,472.0	-680.5	1,621.6	0.00	0.00	
5,000.0	22.59	205.27	4,678.4	-1,506.7	-696.9	1,660.0	0.00	0.00	
5,100.0	22.59	205.27	4,770.7	-1,541.5	-713.3	1,698.4	0.00	0.00	
5,200.0	22.59	205.27	4,863.1	-1,576.2	-729.7	1,736.8	0.00	0.00	
5,300.0	22.59	205.27	4,955.4	-1,610.9	-746.0	1,775.2	0.00	0.00	
5,339.7	22.59	205.27	4,992.0	-1,624.7	-752.6	1,790.5	0.00	0.00	WASATCH_G_TVD
5,400.0	22.59	205.27	5,047.7	-1,645.7	-762.4	1,813.6	0.00	0.00	
5,500.0	22.59	205.27	5,140.0	-1,680.4	-778.8	1,852.1	0.00	0.00	
5,600.0	22.59	205.27	5,232.4	-1,715.1	-795.2	1,890.5	0.00	0.00	
5,700.0	22.59	205.27	5,324.7	-1,749.9	-811.6	1,928.9	0.00	0.00	
5,800.0	22.59	205.27	5,417.0	-1,784.6	-828.0	1,967.3	0.00	0.00	
5,900.0	22.59	205.27	5,509.4	-1,819.3	-844.4	2,005.7	0.00	0.00	
6,000.0	22.59	205.27	5,601.7	-1,854.1	-860.8	2,044.1	0.00	0.00	
6,100.0	22.59	205.27	5,694.0	-1,888.8	-877.2	2,082.5	0.00	0.00	
6,200.0	22.59	205.27	5,786.4	-1,923.5	-893.6	2,120.9	0.00	0.00	
6,300.0	22.59	205.27	5,878.7	-1,958.3	-910.0	2,159.3	0.00	0.00	
6,400.0	22.59	205.27	5,971.0	-1,993.0	-926.4	2,197.7	0.00	0.00	
6,500.0	22.59	205.27	6,063.4	-2,027.7	-942.8	2,236.1	0.00	0.00	
6,600.0	22.59	205.27	6,155.7	-2,062.5	-959.2	2,274.5	0.00	0.00	
6,651.8	22.59	205.27	6,203.5	-2,080.4	-967.7	2,294.4	0.00	0.00	Start 3° Drop @ 6651.8' MD
6,700.0	21.14	205.27	6,248.2	-2,096.7	-975.3	2,312.4	3.00	-3.00	
6,800.0	18.14	205.27	6,342.4	-2,127.1	-989.7	2,346.0	3.00	-3.00	
6,900.0	15.14	205.27	6,438.2	-2,153.0	-1,001.9	2,374.6	3.00	-3.00	
7,000.0	12.14	205.27	6,535.4	-2,174.3	-1,012.0	2,398.2	3.00	-3.00	
7,100.0	9.14	205.27	6,633.7	-2,191.0	-1,019.9	2,416.7	3.00	-3.00	
7,200.0	6.14	205.27	6,732.8	-2,203.0	-1,025.5	2,429.9	3.00	-3.00	
7,300.0	3.14	205.27	6,832.4	-2,210.3	-1,029.0	2,438.0	3.00	-3.00	
7,400.0	0.14	205.27	6,932.4	-2,212.9	-1,030.2	2,440.9	3.00	-3.00	
7,404.6	0.00	0.00	6,937.0	-2,212.9	-1,030.2	2,440.9	3.00	-3.00	EOD @ 7404.6' MD - WILLIAMS_FORK_TVD -
7,500.0	0.02	236.16	7,032.4	-2,212.9	-1,030.2	2,440.9	0.02	0.02	
7,600.0	0.04	236.16	7,132.4	-2,212.9	-1,030.3	2,441.0	0.02	0.02	
7,700.0	0.07	236.16	7,232.4	-2,213.0	-1,030.3	2,441.0	0.02	0.02	
7,800.0	0.09	236.16	7,332.4	-2,213.1	-1,030.5	2,441.2	0.02	0.02	
7,900.0	0.11	236.16	7,432.4	-2,213.2	-1,030.6	2,441.3	0.02	0.02	
8,000.0	0.13	236.16	7,532.4	-2,213.3	-1,030.8	2,441.5	0.02	0.02	
8,100.0	0.16	236.16	7,632.4	-2,213.4	-1,031.0	2,441.7	0.02	0.02	
8,200.0	0.18	236.16	7,732.4	-2,213.6	-1,031.2	2,442.0	0.02	0.02	
8,300.0	0.20	236.16	7,832.4	-2,213.8	-1,031.5	2,442.2	0.02	0.02	
8,400.0	0.22	236.16	7,932.4	-2,214.0	-1,031.8	2,442.6	0.02	0.02	
8,500.0	0.24	236.16	8,032.4	-2,214.2	-1,032.1	2,442.9	0.02	0.02	
8,600.0	0.27	236.16	8,132.4	-2,214.4	-1,032.5	2,443.3	0.02	0.02	
8,700.0	0.29	236.16	8,232.4	-2,214.7	-1,032.9	2,443.7	0.02	0.02	
8,800.0	0.31	236.16	8,332.4	-2,215.0	-1,033.3	2,444.2	0.02	0.02	
8,900.0	0.33	236.16	8,432.4	-2,215.3	-1,033.8	2,444.6	0.02	0.02	
9,000.0	0.36	236.16	8,532.4	-2,215.7	-1,034.3	2,445.2	0.02	0.02	
9,100.0	0.38	236.16	8,632.4	-2,216.0	-1,034.8	2,445.7	0.02	0.02	
9,146.0	0.39	236.16	8,678.4	-2,216.2	-1,035.1	2,446.0	0.02	0.02	
9,200.0	0.39	236.16	8,732.3	-2,216.4	-1,035.4	2,446.3	0.00	0.00	

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Project:	North Piceance	MD Reference:	WELL @ 8226.0ft (Original Well Elev)
Site:	K04 Pad	North Reference:	True
Well:	UWF13E-04 K04	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	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
9,300.0	0.39	236.16	8,832.3	-2,216.8	-1,036.0	2,446.9	0.00	0.00	
9,400.0	0.39	236.16	8,932.3	-2,217.1	-1,036.5	2,447.4	0.00	0.00	
9,500.0	0.39	236.16	9,032.3	-2,217.5	-1,037.1	2,448.0	0.00	0.00	
9,600.0	0.39	236.16	9,132.3	-2,217.9	-1,037.7	2,448.6	0.00	0.00	
9,700.0	0.39	236.16	9,232.3	-2,218.3	-1,038.2	2,449.2	0.00	0.00	
9,800.0	0.39	236.16	9,332.3	-2,218.7	-1,038.8	2,449.8	0.00	0.00	
9,900.0	0.39	236.16	9,432.3	-2,219.0	-1,039.4	2,450.4	0.00	0.00	
10,000.0	0.39	236.16	9,532.3	-2,219.4	-1,039.9	2,450.9	0.00	0.00	
10,100.0	0.39	236.16	9,632.3	-2,219.8	-1,040.5	2,451.5	0.00	0.00	
10,200.0	0.39	236.16	9,732.3	-2,220.2	-1,041.0	2,452.1	0.00	0.00	
10,300.0	0.39	236.16	9,832.3	-2,220.5	-1,041.6	2,452.7	0.00	0.00	
10,400.0	0.39	236.16	9,932.3	-2,220.9	-1,042.2	2,453.3	0.00	0.00	
10,500.0	0.39	236.16	10,032.3	-2,221.3	-1,042.7	2,453.9	0.00	0.00	
10,600.0	0.39	236.16	10,132.3	-2,221.7	-1,043.3	2,454.4	0.00	0.00	
10,700.0	0.39	236.16	10,232.3	-2,222.1	-1,043.9	2,455.0	0.00	0.00	
10,800.0	0.39	236.16	10,332.3	-2,222.4	-1,044.4	2,455.6	0.00	0.00	
10,900.0	0.39	236.16	10,432.3	-2,222.8	-1,045.0	2,456.2	0.00	0.00	
10,934.7	0.39	236.16	10,467.0	-2,222.9	-1,045.2	2,456.4	0.00	0.00	ROLLINS_TVD - UWF13E-04 K04 BHL
11,000.0	0.39	236.16	10,532.3	-2,223.2	-1,045.5	2,456.8	0.00	0.00	
11,100.0	0.39	236.16	10,632.3	-2,223.6	-1,046.1	2,457.3	0.00	0.00	
11,200.0	0.39	236.16	10,732.3	-2,223.9	-1,046.7	2,457.9	0.00	0.00	
11,206.7	0.39	236.16	10,739.0	-2,224.0	-1,046.7	2,458.0	0.00	0.00	COZZETTE_TVD
11,300.0	0.39	236.16	10,832.3	-2,224.3	-1,047.2	2,458.5	0.00	0.00	
11,378.7	0.39	236.16	10,911.0	-2,224.6	-1,047.7	2,459.0	0.00	0.00	CORCORAN_TVD
11,400.0	0.39	236.16	10,932.3	-2,224.7	-1,047.8	2,459.1	0.00	0.00	
11,500.0	0.39	236.16	11,032.3	-2,225.1	-1,048.4	2,459.7	0.00	0.00	
11,600.0	0.39	236.16	11,132.3	-2,225.5	-1,048.9	2,460.3	0.00	0.00	
11,672.7	0.39	236.16	11,205.0	-2,225.7	-1,049.3	2,460.7	0.00	0.00	UPPER_SEGO_TVD
11,700.0	0.39	236.16	11,232.3	-2,225.8	-1,049.5	2,460.8	0.00	0.00	
11,800.0	0.39	236.16	11,332.3	-2,226.2	-1,050.1	2,461.4	0.00	0.00	
11,900.0	0.39	236.16	11,432.3	-2,226.6	-1,050.6	2,462.0	0.00	0.00	
12,000.0	0.39	236.16	11,532.3	-2,227.0	-1,051.2	2,462.6	0.00	0.00	
12,100.0	0.39	236.16	11,632.3	-2,227.3	-1,051.7	2,463.2	0.00	0.00	
12,200.0	0.39	236.16	11,732.3	-2,227.7	-1,052.3	2,463.8	0.00	0.00	
12,300.0	0.39	236.16	11,832.3	-2,228.1	-1,052.9	2,464.3	0.00	0.00	
12,400.0	0.39	236.16	11,932.3	-2,228.5	-1,053.4	2,464.9	0.00	0.00	
12,500.0	0.39	236.16	12,032.3	-2,228.9	-1,054.0	2,465.5	0.00	0.00	
12,600.0	0.39	236.16	12,132.3	-2,229.2	-1,054.6	2,466.1	0.00	0.00	
12,700.0	0.39	236.16	12,232.3	-2,229.6	-1,055.1	2,466.7	0.00	0.00	
12,800.0	0.39	236.16	12,332.3	-2,230.0	-1,055.7	2,467.3	0.00	0.00	
12,900.0	0.39	236.16	12,432.3	-2,230.4	-1,056.3	2,467.8	0.00	0.00	
13,000.0	0.39	236.16	12,532.3	-2,230.7	-1,056.8	2,468.4	0.00	0.00	TD @ 13,000' MD

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well UWF13E-04 K04
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 8226.0ft (Original Well Elev)
Project:	North Piceance	MD Reference:	WELL @ 8226.0ft (Original Well Elev)
Site:	K04 Pad	North Reference:	True
Well:	UWF13E-04 K04	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #1		

Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
- Shape									
UWF13E-04 K04 TOG	0.00	0.00	6,937.0	-2,212.9	-1,030.2	1,668,033.14	2,245,679.97	39° 38' 13.22 N	108° 10' 43.55 W
- plan hits target center									
- Point									
UWF13E-04 K04 BHL	0.00	0.00	10,467.0	-2,222.9	-1,045.2	1,668,023.54	2,245,664.69	39° 38' 13.12 N	108° 10' 43.74 W
- plan hits target center									
- Rectangle (sides W30.0 H50.0 D0.0)									

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(ft)	(ft)			(°)	(°)	
967.2	954.0	A_GROOVE_TVD				
1,138.4	1,113.0	B_GROOVE_TVD				
1,181.8	1,153.0	B_GROOVE_BASE_TVD				
2,010.3	1,918.0	GARDEN_GULCH_TVD				
3,157.3	2,977.0	WASATCH_FM_TVD				
5,339.7	4,992.0	WASATCH_G_TVD				
7,404.6	6,937.0	WILLIAMS_FORK_TVD				
10,934.7	10,467.0	ROLLINS_TVD				
11,206.7	10,739.0	COZZETTE_TVD				
11,378.7	10,911.0	CORCORAN_TVD				
11,672.7	11,205.0	UPPER_SEGO_TVD				

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(ft)	(ft)	+N/-S (ft)	+E/-W (ft)	
300.0	300.0	0.0	0.0	KOP @ 300' MD
633.3	631.6	-28.2	-7.0	Start 3° Build/Turn @ 633.3' MD
1,064.0	1,044.3	-139.7	-51.6	EOB @ 1064' MD; 22.59°
6,651.8	6,203.5	-2,080.4	-967.7	Start 3° Drop @ 6651.8' MD
7,404.6	6,937.0	-2,212.9	-1,030.2	EOD @ 7404.6' MD
13,000.0	12,532.3	-2,230.7	-1,056.8	TD @ 13,000' MD