

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well UWF13C-03 H04 596
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:	UWF13C-03 H04 596	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	UWF13C-03 H04 596					
Well Position	+N/-S	0.00 usft	Northing:	1,671,093.43 usft	Latitude:	39.645731
	+E/-W	0.00 usft	Easting:	2,249,622.19 usft	Longitude:	-108.165075
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	151.93

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	
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,286.90	26.61	151.44	1,255.36	-177.65	96.68	3.00	3.00	0.00	151.44	
7,063.95	26.61	151.44	6,420.62	-2,450.25	1,333.51	0.00	0.00	0.00	0.00	
7,950.85	0.00	0.00	7,275.99	-2,627.90	1,430.19	3.00	-3.00	0.00	180.00	UWF13C-03 TGT 9.1°
7,979.74	0.29	236.31	7,304.88	-2,627.94	1,430.13	1.00	1.00	-428.07	236.31	
11,540.89	0.29	236.31	10,865.98	-2,637.90	1,415.19	0.00	0.00	0.00	0.00	UWF13C-03 BHL 9.1°
13,005.64	0.29	236.31	12,330.71	-2,642.00	1,409.04	0.00	0.00	0.00	0.00	

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Site:	H04 596 Pad	North Reference:	True
Well:	UWF13C-03 H04 596	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	PLAN #4		

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	
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	KOP @ 400'
500.00	3.00	151.44	499.95	-2.30	1.25	2.62	3.00	3.00	
600.00	6.00	151.44	599.63	-9.19	5.00	10.46	3.00	3.00	
700.00	9.00	151.44	698.77	-20.65	11.24	23.51	3.00	3.00	
800.00	12.00	151.44	797.08	-36.66	19.95	41.73	3.00	3.00	
900.00	15.00	151.44	894.31	-57.16	31.11	65.07	3.00	3.00	
1,000.00	18.00	151.44	990.18	-82.10	44.68	93.47	3.00	3.00	
1,081.36	20.44	151.44	1,067.00	-105.63	57.49	120.25	3.00	3.00	A GROOVE
1,100.00	21.00	151.44	1,084.43	-111.42	60.64	126.85	3.00	3.00	
1,200.00	24.00	151.44	1,176.81	-145.03	78.93	165.11	3.00	3.00	
1,255.30	25.66	151.44	1,227.00	-165.43	90.03	188.33	3.00	3.00	B GROOVE
1,286.90	26.61	151.44	1,255.36	-177.65	96.68	202.25	3.00	3.00	EOB; INC=26.61°
1,299.91	26.61	151.44	1,267.00	-182.77	99.47	208.08	0.00	0.00	B GROOVE BASE
1,300.00	26.61	151.44	1,267.08	-182.80	99.49	208.12	0.00	0.00	
1,400.00	26.61	151.44	1,356.49	-222.14	120.90	252.90	0.00	0.00	
1,500.00	26.61	151.44	1,445.90	-261.48	142.31	297.69	0.00	0.00	
1,600.00	26.61	151.44	1,535.31	-300.82	163.72	342.47	0.00	0.00	
1,700.00	26.61	151.44	1,624.72	-340.16	185.12	387.26	0.00	0.00	
1,800.00	26.61	151.44	1,714.13	-379.50	206.53	432.04	0.00	0.00	
1,900.00	26.61	151.44	1,803.54	-418.83	227.94	476.83	0.00	0.00	
2,000.00	26.61	151.44	1,892.95	-458.17	249.35	521.61	0.00	0.00	
2,100.00	26.61	151.44	1,982.36	-497.51	270.76	566.40	0.00	0.00	
2,200.00	26.61	151.44	2,071.77	-536.85	292.17	611.18	0.00	0.00	
2,204.73	26.61	151.44	2,076.00	-538.71	293.18	613.30	0.00	0.00	GARDEN GULCH
2,300.00	26.61	151.44	2,161.18	-576.19	313.58	655.97	0.00	0.00	
2,400.00	26.61	151.44	2,250.59	-615.53	334.99	700.75	0.00	0.00	
2,500.00	26.61	151.44	2,340.00	-654.86	356.40	745.54	0.00	0.00	
2,600.00	26.61	151.44	2,429.41	-694.20	377.81	790.32	0.00	0.00	
2,700.00	26.61	151.44	2,518.82	-733.54	399.22	835.11	0.00	0.00	
2,800.00	26.61	151.44	2,608.23	-772.88	420.63	879.89	0.00	0.00	
2,900.00	26.61	151.44	2,697.64	-812.22	442.04	924.68	0.00	0.00	
3,000.00	26.61	151.44	2,787.05	-851.56	463.45	969.47	0.00	0.00	
3,100.00	26.61	151.44	2,876.46	-890.90	484.85	1,014.25	0.00	0.00	
3,200.00	26.61	151.44	2,965.87	-930.23	506.26	1,059.04	0.00	0.00	
3,300.00	26.61	151.44	3,055.28	-969.57	527.67	1,103.82	0.00	0.00	
3,395.87	26.61	151.44	3,140.99	-1,007.29	548.20	1,146.76	0.00	0.00	WASATCH FM
3,400.00	26.61	151.44	3,144.69	-1,008.91	549.08	1,148.61	0.00	0.00	
3,500.00	26.61	151.44	3,234.10	-1,048.25	570.49	1,193.39	0.00	0.00	
3,600.00	26.61	151.44	3,323.51	-1,087.59	591.90	1,238.18	0.00	0.00	
3,700.00	26.61	151.44	3,412.92	-1,126.93	613.31	1,282.96	0.00	0.00	
3,800.00	26.61	151.44	3,502.33	-1,166.26	634.72	1,327.75	0.00	0.00	
3,900.00	26.61	151.44	3,591.74	-1,205.60	656.13	1,372.53	0.00	0.00	
4,000.00	26.61	151.44	3,681.15	-1,244.94	677.54	1,417.32	0.00	0.00	
4,100.00	26.61	151.44	3,770.56	-1,284.28	698.95	1,462.10	0.00	0.00	
4,200.00	26.61	151.44	3,859.97	-1,323.62	720.36	1,506.89	0.00	0.00	
4,300.00	26.61	151.44	3,949.38	-1,362.96	741.77	1,551.67	0.00	0.00	
4,400.00	26.61	151.44	4,038.79	-1,402.29	763.18	1,596.46	0.00	0.00	
4,500.00	26.61	151.44	4,128.20	-1,441.63	784.58	1,641.25	0.00	0.00	

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Site:	H04 596 Pad	North Reference:	True
Well:	UWF13C-03 H04 596	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	PLAN #4		

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
4,600.00	26.61	151.44	4,217.61	-1,480.97	805.99	1,686.03	0.00	0.00	
4,700.00	26.61	151.44	4,307.02	-1,520.31	827.40	1,730.82	0.00	0.00	
4,800.00	26.61	151.44	4,396.43	-1,559.65	848.81	1,775.60	0.00	0.00	
4,900.00	26.61	151.44	4,485.83	-1,598.99	870.22	1,820.39	0.00	0.00	
5,000.00	26.61	151.44	4,575.24	-1,638.33	891.63	1,865.17	0.00	0.00	
5,100.00	26.61	151.44	4,664.65	-1,677.66	913.04	1,909.96	0.00	0.00	
5,200.00	26.61	151.44	4,754.06	-1,717.00	934.45	1,954.74	0.00	0.00	
5,300.00	26.61	151.44	4,843.47	-1,756.34	955.86	1,999.53	0.00	0.00	
5,400.00	26.61	151.44	4,932.88	-1,795.68	977.27	2,044.31	0.00	0.00	
5,500.00	26.61	151.44	5,022.29	-1,835.02	998.68	2,089.10	0.00	0.00	
5,600.00	26.61	151.44	5,111.70	-1,874.36	1,020.09	2,133.88	0.00	0.00	
5,700.00	26.61	151.44	5,201.11	-1,913.69	1,041.50	2,178.67	0.00	0.00	
5,724.47	26.61	151.44	5,222.99	-1,923.32	1,046.73	2,189.63	0.00	0.00	WASATCH G
5,800.00	26.61	151.44	5,290.52	-1,953.03	1,062.90	2,223.45	0.00	0.00	
5,900.00	26.61	151.44	5,379.93	-1,992.37	1,084.31	2,268.24	0.00	0.00	
6,000.00	26.61	151.44	5,469.34	-2,031.71	1,105.72	2,313.02	0.00	0.00	
6,100.00	26.61	151.44	5,558.75	-2,071.05	1,127.13	2,357.81	0.00	0.00	
6,200.00	26.61	151.44	5,648.16	-2,110.39	1,148.54	2,402.60	0.00	0.00	
6,300.00	26.61	151.44	5,737.57	-2,149.72	1,169.95	2,447.38	0.00	0.00	
6,400.00	26.61	151.44	5,826.98	-2,189.06	1,191.36	2,492.17	0.00	0.00	
6,500.00	26.61	151.44	5,916.39	-2,228.40	1,212.77	2,536.95	0.00	0.00	
6,600.00	26.61	151.44	6,005.80	-2,267.74	1,234.18	2,581.74	0.00	0.00	
6,700.00	26.61	151.44	6,095.21	-2,307.08	1,255.59	2,626.52	0.00	0.00	
6,800.00	26.61	151.44	6,184.62	-2,346.42	1,277.00	2,671.31	0.00	0.00	
6,900.00	26.61	151.44	6,274.03	-2,385.75	1,298.41	2,716.09	0.00	0.00	
7,000.00	26.61	151.44	6,363.44	-2,425.09	1,319.82	2,760.88	0.00	0.00	
7,063.95	26.61	151.44	6,420.62	-2,450.25	1,333.51	2,789.52	0.00	0.00	Start Drop -3.00
7,100.00	25.53	151.44	6,453.00	-2,464.16	1,341.08	2,805.36	3.00	-3.00	
7,200.00	22.53	151.44	6,544.33	-2,499.92	1,360.54	2,846.07	3.00	-3.00	
7,300.00	19.53	151.44	6,637.66	-2,531.43	1,377.69	2,881.94	3.00	-3.00	
7,400.00	16.53	151.44	6,732.74	-2,558.61	1,392.48	2,912.88	3.00	-3.00	
7,500.00	13.53	151.44	6,829.31	-2,581.38	1,404.87	2,938.80	3.00	-3.00	
7,600.00	10.53	151.44	6,927.11	-2,599.67	1,414.83	2,959.63	3.00	-3.00	
7,700.00	7.53	151.44	7,025.86	-2,613.45	1,422.33	2,975.32	3.00	-3.00	
7,800.00	4.53	151.44	7,125.29	-2,622.67	1,427.34	2,985.81	3.00	-3.00	
7,900.00	1.53	151.44	7,225.14	-2,627.31	1,429.87	2,991.09	3.00	-3.00	
7,950.85	0.00	0.00	7,275.99	-2,627.90	1,430.19	2,991.77	3.00	-3.00	EOD; INC=0° - WILLIAMS FORK
7,979.74	0.29	236.31	7,304.88	-2,627.94	1,430.13	2,991.77	1.00	1.00	
8,000.00	0.29	236.31	7,325.14	-2,628.00	1,430.04	2,991.78	0.00	0.00	
8,100.00	0.29	236.31	7,425.13	-2,628.28	1,429.62	2,991.83	0.00	0.00	
8,200.00	0.29	236.31	7,525.13	-2,628.56	1,429.21	2,991.88	0.00	0.00	
8,300.00	0.29	236.31	7,625.13	-2,628.84	1,428.79	2,991.93	0.00	0.00	
8,400.00	0.29	236.31	7,725.13	-2,629.12	1,428.37	2,991.98	0.00	0.00	
8,500.00	0.29	236.31	7,825.13	-2,629.40	1,427.95	2,992.03	0.00	0.00	
8,600.00	0.29	236.31	7,925.13	-2,629.68	1,427.53	2,992.08	0.00	0.00	
8,700.00	0.29	236.31	8,025.13	-2,629.96	1,427.11	2,992.13	0.00	0.00	
8,800.00	0.29	236.31	8,125.13	-2,630.23	1,426.69	2,992.18	0.00	0.00	
8,900.00	0.29	236.31	8,225.12	-2,630.51	1,426.27	2,992.23	0.00	0.00	
9,000.00	0.29	236.31	8,325.12	-2,630.79	1,425.85	2,992.28	0.00	0.00	
9,100.00	0.29	236.31	8,425.12	-2,631.07	1,425.43	2,992.33	0.00	0.00	
9,200.00	0.29	236.31	8,525.12	-2,631.35	1,425.01	2,992.38	0.00	0.00	
9,300.00	0.29	236.31	8,625.12	-2,631.63	1,424.59	2,992.42	0.00	0.00	

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9,400.00	0.29	236.31	8,725.12	-2,631.91	1,424.17	2,992.47	0.00	0.00	
9,500.00	0.29	236.31	8,825.12	-2,632.19	1,423.75	2,992.52	0.00	0.00	
9,600.00	0.29	236.31	8,925.12	-2,632.47	1,423.33	2,992.57	0.00	0.00	
9,700.00	0.29	236.31	9,025.11	-2,632.75	1,422.91	2,992.62	0.00	0.00	
9,800.00	0.29	236.31	9,125.11	-2,633.03	1,422.49	2,992.67	0.00	0.00	
9,900.00	0.29	236.31	9,225.11	-2,633.31	1,422.07	2,992.72	0.00	0.00	
10,000.00	0.29	236.31	9,325.11	-2,633.59	1,421.65	2,992.77	0.00	0.00	
10,100.00	0.29	236.31	9,425.11	-2,633.87	1,421.23	2,992.82	0.00	0.00	
10,200.00	0.29	236.31	9,525.11	-2,634.15	1,420.81	2,992.87	0.00	0.00	
10,300.00	0.29	236.31	9,625.11	-2,634.43	1,420.39	2,992.92	0.00	0.00	
10,400.00	0.29	236.31	9,725.11	-2,634.71	1,419.97	2,992.97	0.00	0.00	
10,500.00	0.29	236.31	9,825.10	-2,634.99	1,419.55	2,993.02	0.00	0.00	
10,600.00	0.29	236.31	9,925.10	-2,635.27	1,419.13	2,993.07	0.00	0.00	
10,700.00	0.29	236.31	10,025.10	-2,635.55	1,418.71	2,993.12	0.00	0.00	
10,800.00	0.29	236.31	10,125.10	-2,635.83	1,418.30	2,993.16	0.00	0.00	
10,900.00	0.29	236.31	10,225.10	-2,636.11	1,417.88	2,993.21	0.00	0.00	
11,000.00	0.29	236.31	10,325.10	-2,636.39	1,417.46	2,993.26	0.00	0.00	
11,100.00	0.29	236.31	10,425.10	-2,636.67	1,417.04	2,993.31	0.00	0.00	
11,200.00	0.29	236.31	10,525.10	-2,636.95	1,416.62	2,993.36	0.00	0.00	
11,300.00	0.29	236.31	10,625.09	-2,637.23	1,416.20	2,993.41	0.00	0.00	
11,400.00	0.29	236.31	10,725.09	-2,637.51	1,415.78	2,993.46	0.00	0.00	
11,500.00	0.29	236.31	10,825.09	-2,637.79	1,415.36	2,993.51	0.00	0.00	
11,540.89	0.29	236.31	10,865.98	-2,637.90	1,415.19	2,993.53	0.00	0.00	TD @ 11,540' MD - ROLLINS
11,600.00	0.29	236.31	10,925.09	-2,638.07	1,414.94	2,993.56	0.00	0.00	
11,700.00	0.29	236.31	11,025.09	-2,638.35	1,414.52	2,993.61	0.00	0.00	
11,797.89	0.29	236.31	11,122.98	-2,638.62	1,414.11	2,993.66	0.00	0.00	COZZETTE
11,800.00	0.29	236.31	11,125.09	-2,638.63	1,414.10	2,993.66	0.00	0.00	
11,900.00	0.29	236.31	11,225.09	-2,638.91	1,413.68	2,993.71	0.00	0.00	
11,971.89	0.29	236.31	11,296.98	-2,639.11	1,413.38	2,993.74	0.00	0.00	CORCORAN
12,000.00	0.29	236.31	11,325.09	-2,639.19	1,413.26	2,993.76	0.00	0.00	
12,100.00	0.29	236.31	11,425.08	-2,639.47	1,412.84	2,993.81	0.00	0.00	
12,200.00	0.29	236.31	11,525.08	-2,639.75	1,412.42	2,993.86	0.00	0.00	
12,266.90	0.29	236.31	11,591.98	-2,639.93	1,412.14	2,993.89	0.00	0.00	UPPER SEGO
12,300.00	0.29	236.31	11,625.08	-2,640.03	1,412.00	2,993.91	0.00	0.00	
12,400.00	0.29	236.31	11,725.08	-2,640.30	1,411.58	2,993.95	0.00	0.00	
12,500.00	0.29	236.31	11,825.08	-2,640.58	1,411.16	2,994.00	0.00	0.00	
12,600.00	0.29	236.31	11,925.08	-2,640.86	1,410.74	2,994.05	0.00	0.00	
12,700.00	0.29	236.31	12,025.08	-2,641.14	1,410.32	2,994.10	0.00	0.00	
12,800.00	0.29	236.31	12,125.07	-2,641.42	1,409.90	2,994.15	0.00	0.00	
12,900.00	0.29	236.31	12,225.07	-2,641.70	1,409.48	2,994.20	0.00	0.00	
13,000.00	0.29	236.31	12,325.07	-2,641.98	1,409.06	2,994.25	0.00	0.00	
13,005.64	0.29	236.31	12,330.71	-2,642.00	1,409.04	2,994.25	0.00	0.00	PERMIT TD @ 12,330' TVD

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well UWF13C-03 H04 596
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:	UWF13C-03 H04 596	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)		
UWF13C-03 BHL (2)	0.00	0.00	10,865.98	-2,638.96	1,384.68	1,668,415.00	2,250,928.86	39.638486	-108.160158
- plan misses target center by 30.53usft at 11541.02usft MD (10866.11 TVD, -2637.90 N, 1415.19 E)									
- Rectangle (sides W30.00 H50.00 D0.00)									
UWF13C-03 BHL 9.19	0.00	0.00	10,865.98	-2,637.90	1,415.19	1,668,415.16	2,250,959.39	39.638489	-108.160050
- plan hits target center									
- Rectangle (sides W30.00 H50.00 D0.00)									
UWF13C-03 TGT	0.00	0.00	7,275.99	-2,627.97	1,430.20	1,668,424.65	2,250,974.69	39.638516	-108.159997
- plan misses target center by 0.07usft at 7950.85usft MD (7275.99 TVD, -2627.90 N, 1430.19 E)									
- Point									
UWF13C-03 TGT 9.19	0.00	0.00	7,275.99	-2,627.90	1,430.19	1,668,424.71	2,250,974.68	39.638516	-108.159997
- plan hits target center									
- Point									
UWF13C-03 BHL	0.00	0.00	10,865.98	-2,637.94	1,415.19	1,668,415.12	2,250,959.39	39.638489	-108.160050
- plan misses target center by 0.04usft at 11540.89usft MD (10865.98 TVD, -2637.90 N, 1415.19 E)									
- Rectangle (sides W30.00 H50.00 D0.00)									
UWF13C-03 TGT (2)	0.00	0.00	7,275.99	-2,632.97	1,401.70	1,668,420.48	2,250,946.05	39.638503	-108.160098
- plan misses target center by 28.94usft at 7950.73usft MD (7275.86 TVD, -2627.90 N, 1430.19 E)									
- Point									

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,081.36	1,067.00	A GROOVE				
1,255.30	1,227.00	B GROOVE				
1,299.91	1,267.00	B GROOVE BASE				
2,204.73	2,076.00	GARDEN GULCH				
3,395.87	3,140.99	WASATCH FM				
5,724.47	5,222.99	WASATCH G				
7,950.85	7,275.99	WILLIAMS FORK				
11,540.89	10,865.98	ROLLINS				
11,797.89	11,122.98	COZZETTE				
11,971.89	11,296.98	CORCORAN				
12,266.90	11,591.98	UPPER SEGO				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
400.00	400.00	0.00	0.00	KOP @ 400'	
1,286.90	1,255.36	-177.65	96.68	EOB; INC=26.61°	
7,063.95	6,420.62	-2,450.25	1,333.51	Start Drop -3.00	
7,950.85	7,275.99	-2,627.90	1,430.19	EOD; INC=0°	
11,540.89	10,865.98	-2,627.94	1,430.13	TD @ 11,540' MD	
13,005.64	12,330.71	-2,637.90	1,415.19	PERMIT TD @ 12,330' TVD	