



Vertical Section at 275.91° (1700 ft/in)

# Cathedral Energy Services

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well UWF07B-04 H04 596
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	KBE @ 8293.0ft (Original Well Elev)
<b>Project:</b>	North Piceance	<b>MD Reference:</b>	KBE @ 8293.0ft (Original Well Elev)
<b>Site:</b>	H04 596 Pad	<b>North Reference:</b>	True
<b>Well:</b>	UWF07B-04 H04 596	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	DD		
<b>Design:</b>	Plan #2		

<b>Project</b>	North Piceance		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Colorado Central Zone		

Site		H04 596 Pad			
Site Position:		Northing:	1,671,070.85 ft	Latitude:	39° 38' 44.37 N
From:	Lat/Long	Easting:	2,249,607.93 ft	Longitude:	108° 9' 54.50 W
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	-1.68 °

Well	UWF07B-04 H04 596					
Well Position	+N/-S	0.0 ft	Northing:	1,671,223.31 ft	Latitude:	39° 38' 45.89 N
	+E/-W	0.0 ft	Easting:	2,249,655.44 ft	Longitude:	108° 9' 53.95 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	8,260.0 ft

<b>Wellbore</b>	DD				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	4/18/2012	10.34	65.81	52,206

Design	Plan #2			
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	275.91

<b>Plan Sections</b>										
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	
350.0	0.00	0.00	350.0	0.0	0.0	0.00	0.00	0.00	0.00	
450.0	3.00	83.00	450.0	0.3	2.6	3.00	3.00	0.00	83.00	
918.2	11.11	276.60	915.8	7.0	-30.2	3.00	1.73	-35.54	-169.24	
6,986.1	11.11	276.60	6,869.9	141.5	-1,191.9	0.00	0.00	0.00	0.00	
7,356.5	0.00	0.00	7,238.0	145.6	-1,227.5	3.00	-3.00	0.00	180.00	UWF07B-04 TGT (2)
7,516.9	0.32	239.58	7,398.4	145.4	-1,227.9	0.20	0.20	-75.07	239.58	
10,958.6	0.32	239.58	10,840.0	135.6	-1,244.5	0.00	0.00	0.00	0.00	UWF07B-04 PBHL (2)
13,000.0	0.32	239.58	12,881.4	129.8	-1,254.4	0.00	0.00	0.00	0.00	

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<b>Site:</b>	H04 596 Pad	<b>North Reference:</b>	True
<b>Well:</b>	UWF07B-04 H04 596	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	DD		
<b>Design:</b>	Plan #2		

### 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	
350.0	0.00	0.00	350.0	0.0	0.0	0.0	0.00	0.00	KOP @ 350'
400.0	1.50	83.00	400.0	0.1	0.6	-0.6	3.00	3.00	
450.0	3.00	83.00	450.0	0.3	2.6	-2.6	3.00	3.00	
500.0	1.55	72.60	499.9	0.7	4.5	-4.4	3.00	-2.90	
600.0	1.65	293.58	599.9	1.7	4.5	-4.3	3.00	0.10	
700.0	4.59	280.75	699.7	3.0	-0.7	1.0	3.00	2.94	
800.0	7.57	277.97	799.2	4.6	-11.2	11.6	3.00	2.99	
900.0	10.57	276.75	897.9	6.6	-26.8	27.4	3.00	2.99	
918.2	11.11	276.60	915.8	7.0	-30.2	30.8	3.00	2.99	EOB @ Inc. = 11.11°
1,000.0	11.11	276.60	996.0	8.8	-45.9	46.6	0.00	0.00	
1,090.7	11.11	276.60	1,085.0	10.9	-63.2	64.0	0.00	0.00	A GROOVE
1,100.0	11.11	276.60	1,094.2	11.1	-65.0	65.8	0.00	0.00	
1,200.0	11.11	276.60	1,192.3	13.3	-84.2	85.1	0.00	0.00	
1,253.7	11.11	276.60	1,245.0	14.5	-94.5	95.4	0.00	0.00	B GROOVE
1,294.5	11.11	276.60	1,285.0	15.4	-102.3	103.3	0.00	0.00	B GROOVE BASE
1,300.0	11.11	276.60	1,290.4	15.5	-103.3	104.4	0.00	0.00	
1,400.0	11.11	276.60	1,388.5	17.7	-122.5	123.6	0.00	0.00	
1,500.0	11.11	276.60	1,486.7	19.9	-141.6	142.9	0.00	0.00	
1,600.0	11.11	276.60	1,584.8	22.1	-160.8	162.2	0.00	0.00	
1,700.0	11.11	276.60	1,682.9	24.4	-179.9	181.5	0.00	0.00	
1,800.0	11.11	276.60	1,781.0	26.6	-199.0	200.7	0.00	0.00	
1,900.0	11.11	276.60	1,879.2	28.8	-218.2	220.0	0.00	0.00	
2,000.0	11.11	276.60	1,977.3	31.0	-237.3	239.3	0.00	0.00	
2,100.0	11.11	276.60	2,075.4	33.2	-256.5	258.5	0.00	0.00	
2,124.0	11.11	276.60	2,099.0	33.8	-261.1	263.2	0.00	0.00	GARDEN GULCH
2,200.0	11.11	276.60	2,173.5	35.4	-275.6	277.8	0.00	0.00	
2,300.0	11.11	276.60	2,271.7	37.7	-294.8	297.1	0.00	0.00	
2,400.0	11.11	276.60	2,369.8	39.9	-313.9	316.4	0.00	0.00	
2,500.0	11.11	276.60	2,467.9	42.1	-333.1	335.6	0.00	0.00	
2,600.0	11.11	276.60	2,566.0	44.3	-352.2	354.9	0.00	0.00	
2,700.0	11.11	276.60	2,664.2	46.5	-371.4	374.2	0.00	0.00	
2,800.0	11.11	276.60	2,762.3	48.7	-390.5	393.4	0.00	0.00	
2,900.0	11.11	276.60	2,860.4	50.9	-409.6	412.7	0.00	0.00	
3,000.0	11.11	276.60	2,958.5	53.2	-428.8	432.0	0.00	0.00	
3,100.0	11.11	276.60	3,056.7	55.4	-447.9	451.3	0.00	0.00	
3,187.0	11.11	276.60	3,142.0	57.3	-464.6	468.0	0.00	0.00	WASATCH FM
3,200.0	11.11	276.60	3,154.8	57.6	-467.1	470.5	0.00	0.00	
3,300.0	11.11	276.60	3,252.9	59.8	-486.2	489.8	0.00	0.00	
3,400.0	11.11	276.60	3,351.1	62.0	-505.4	509.1	0.00	0.00	
3,500.0	11.11	276.60	3,449.2	64.2	-524.5	528.3	0.00	0.00	
3,600.0	11.11	276.60	3,547.3	66.5	-543.7	547.6	0.00	0.00	
3,700.0	11.11	276.60	3,645.4	68.7	-562.8	566.9	0.00	0.00	
3,800.0	11.11	276.60	3,743.6	70.9	-582.0	586.2	0.00	0.00	
3,900.0	11.11	276.60	3,841.7	73.1	-601.1	605.4	0.00	0.00	
4,000.0	11.11	276.60	3,939.8	75.3	-620.2	624.7	0.00	0.00	
4,100.0	11.11	276.60	4,037.9	77.5	-639.4	644.0	0.00	0.00	
4,200.0	11.11	276.60	4,136.1	79.8	-658.5	663.2	0.00	0.00	
4,300.0	11.11	276.60	4,234.2	82.0	-677.7	682.5	0.00	0.00	

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<b>Site:</b>	H04 596 Pad	<b>North Reference:</b>	True
<b>Well:</b>	UWF07B-04 H04 596	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	DD		
<b>Design:</b>	Plan #2		

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
4,400.0	11.11	276.60	4,332.3	84.2	-696.8	701.8	0.00	0.00	
4,500.0	11.11	276.60	4,430.4	86.4	-716.0	721.1	0.00	0.00	
4,600.0	11.11	276.60	4,528.6	88.6	-735.1	740.3	0.00	0.00	
4,700.0	11.11	276.60	4,626.7	90.8	-754.3	759.6	0.00	0.00	
4,800.0	11.11	276.60	4,724.8	93.0	-773.4	778.9	0.00	0.00	
4,900.0	11.11	276.60	4,822.9	95.3	-792.5	798.1	0.00	0.00	
5,000.0	11.11	276.60	4,921.1	97.5	-811.7	817.4	0.00	0.00	
5,100.0	11.11	276.60	5,019.2	99.7	-830.8	836.7	0.00	0.00	
5,200.0	11.11	276.60	5,117.3	101.9	-850.0	856.0	0.00	0.00	
5,300.0	11.11	276.60	5,215.4	104.1	-869.1	875.2	0.00	0.00	
5,310.8	11.11	276.60	5,226.0	104.4	-871.2	877.3	0.00	0.00	WASATCH G
5,400.0	11.11	276.60	5,313.6	106.3	-888.3	894.5	0.00	0.00	
5,500.0	11.11	276.60	5,411.7	108.6	-907.4	913.8	0.00	0.00	
5,600.0	11.11	276.60	5,509.8	110.8	-926.6	933.0	0.00	0.00	
5,700.0	11.11	276.60	5,607.9	113.0	-945.7	952.3	0.00	0.00	
5,800.0	11.11	276.60	5,706.1	115.2	-964.9	971.6	0.00	0.00	
5,900.0	11.11	276.60	5,804.2	117.4	-984.0	990.9	0.00	0.00	
6,000.0	11.11	276.60	5,902.3	119.6	-1,003.1	1,010.1	0.00	0.00	
6,100.0	11.11	276.60	6,000.4	121.8	-1,022.3	1,029.4	0.00	0.00	
6,200.0	11.11	276.60	6,098.6	124.1	-1,041.4	1,048.7	0.00	0.00	
6,300.0	11.11	276.60	6,196.7	126.3	-1,060.6	1,067.9	0.00	0.00	
6,400.0	11.11	276.60	6,294.8	128.5	-1,079.7	1,087.2	0.00	0.00	
6,500.0	11.11	276.60	6,392.9	130.7	-1,098.9	1,106.5	0.00	0.00	
6,600.0	11.11	276.60	6,491.1	132.9	-1,118.0	1,125.8	0.00	0.00	
6,700.0	11.11	276.60	6,589.2	135.1	-1,137.2	1,145.0	0.00	0.00	
6,800.0	11.11	276.60	6,687.3	137.4	-1,156.3	1,164.3	0.00	0.00	
6,900.0	11.11	276.60	6,785.4	139.6	-1,175.4	1,183.6	0.00	0.00	
6,986.1	11.11	276.60	6,869.9	141.5	-1,191.9	1,200.2	0.00	0.00	Start 3° Drop
7,000.0	10.69	276.60	6,883.6	141.8	-1,194.5	1,202.8	3.00	-3.00	
7,100.0	7.69	276.60	6,982.3	143.6	-1,210.4	1,218.8	3.00	-3.00	
7,200.0	4.69	276.60	7,081.7	144.9	-1,221.1	1,229.6	3.00	-3.00	
7,300.0	1.69	276.60	7,181.5	145.5	-1,226.7	1,235.1	3.00	-3.00	
7,356.5	0.00	0.00	7,238.0	145.6	-1,227.5	1,236.0	3.00	-3.00	EOD @ Inc. = 0° - WILLIAMS FORK
7,400.0	0.09	239.58	7,281.5	145.6	-1,227.5	1,236.0	0.20	0.20	
7,500.0	0.29	239.58	7,381.5	145.4	-1,227.8	1,236.3	0.20	0.20	
7,516.9	0.32	239.58	7,398.4	145.4	-1,227.9	1,236.3	0.20	0.20	
7,600.0	0.32	239.58	7,481.5	145.1	-1,228.3	1,236.7	0.00	0.00	
7,700.0	0.32	239.58	7,581.5	144.9	-1,228.8	1,237.2	0.00	0.00	
7,800.0	0.32	239.58	7,681.5	144.6	-1,229.3	1,237.6	0.00	0.00	
7,900.0	0.32	239.58	7,781.5	144.3	-1,229.7	1,238.1	0.00	0.00	
8,000.0	0.32	239.58	7,881.5	144.0	-1,230.2	1,238.5	0.00	0.00	
8,100.0	0.32	239.58	7,981.5	143.7	-1,230.7	1,239.0	0.00	0.00	
8,200.0	0.32	239.58	8,081.5	143.4	-1,231.2	1,239.4	0.00	0.00	
8,300.0	0.32	239.58	8,181.5	143.2	-1,231.7	1,239.9	0.00	0.00	
8,400.0	0.32	239.58	8,281.5	142.9	-1,232.2	1,240.3	0.00	0.00	
8,500.0	0.32	239.58	8,381.5	142.6	-1,232.6	1,240.8	0.00	0.00	
8,600.0	0.32	239.58	8,481.5	142.3	-1,233.1	1,241.2	0.00	0.00	
8,700.0	0.32	239.58	8,581.5	142.0	-1,233.6	1,241.7	0.00	0.00	
8,800.0	0.32	239.58	8,681.5	141.7	-1,234.1	1,242.1	0.00	0.00	
8,900.0	0.32	239.58	8,781.5	141.5	-1,234.6	1,242.6	0.00	0.00	
9,000.0	0.32	239.58	8,881.5	141.2	-1,235.0	1,243.0	0.00	0.00	
9,100.0	0.32	239.58	8,981.5	140.9	-1,235.5	1,243.5	0.00	0.00	

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<b>Wellbore:</b>	DD		
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Planned Survey									
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9,200.0	0.32	239.58	9,081.5	140.6	-1,236.0	1,243.9	0.00	0.00	
9,300.0	0.32	239.58	9,181.5	140.3	-1,236.5	1,244.4	0.00	0.00	
9,400.0	0.32	239.58	9,281.5	140.0	-1,237.0	1,244.8	0.00	0.00	
9,500.0	0.32	239.58	9,381.5	139.8	-1,237.5	1,245.3	0.00	0.00	
9,600.0	0.32	239.58	9,481.5	139.5	-1,237.9	1,245.7	0.00	0.00	
9,700.0	0.32	239.58	9,581.5	139.2	-1,238.4	1,246.2	0.00	0.00	
9,800.0	0.32	239.58	9,681.5	138.9	-1,238.9	1,246.6	0.00	0.00	
9,900.0	0.32	239.58	9,781.5	138.6	-1,239.4	1,247.1	0.00	0.00	
10,000.0	0.32	239.58	9,881.5	138.3	-1,239.9	1,247.5	0.00	0.00	
10,100.0	0.32	239.58	9,981.5	138.0	-1,240.4	1,248.0	0.00	0.00	
10,200.0	0.32	239.58	10,081.5	137.8	-1,240.8	1,248.4	0.00	0.00	
10,300.0	0.32	239.58	10,181.5	137.5	-1,241.3	1,248.9	0.00	0.00	
10,400.0	0.32	239.58	10,281.5	137.2	-1,241.8	1,249.3	0.00	0.00	
10,500.0	0.32	239.58	10,381.5	136.9	-1,242.3	1,249.8	0.00	0.00	
10,600.0	0.32	239.58	10,481.5	136.6	-1,242.8	1,250.2	0.00	0.00	
10,700.0	0.32	239.58	10,581.5	136.3	-1,243.3	1,250.7	0.00	0.00	
10,800.0	0.32	239.58	10,681.4	136.1	-1,243.7	1,251.1	0.00	0.00	
10,900.0	0.32	239.58	10,781.4	135.8	-1,244.2	1,251.6	0.00	0.00	
10,958.6	0.32	239.58	10,840.0	135.6	-1,244.5	1,251.9	0.00	0.00	TD @ 10,958.6' MD - ROLLINS
11,000.0	0.32	239.58	10,881.4	135.5	-1,244.7	1,252.0	0.00	0.00	
11,100.0	0.32	239.58	10,981.4	135.2	-1,245.2	1,252.5	0.00	0.00	
11,186.6	0.32	239.58	11,068.0	135.0	-1,245.6	1,252.9	0.00	0.00	COZZETTE
11,200.0	0.32	239.58	11,081.4	134.9	-1,245.7	1,252.9	0.00	0.00	
11,300.0	0.32	239.58	11,181.4	134.6	-1,246.2	1,253.4	0.00	0.00	
11,355.6	0.32	239.58	11,237.0	134.5	-1,246.4	1,253.6	0.00	0.00	CORCORAN
11,400.0	0.32	239.58	11,281.4	134.4	-1,246.6	1,253.8	0.00	0.00	
11,500.0	0.32	239.58	11,381.4	134.1	-1,247.1	1,254.3	0.00	0.00	
11,600.0	0.32	239.58	11,481.4	133.8	-1,247.6	1,254.7	0.00	0.00	
11,651.6	0.32	239.58	11,533.0	133.7	-1,247.9	1,255.0	0.00	0.00	UPPER SEGO
11,700.0	0.32	239.58	11,581.4	133.5	-1,248.1	1,255.2	0.00	0.00	
11,800.0	0.32	239.58	11,681.4	133.2	-1,248.6	1,255.7	0.00	0.00	
11,900.0	0.32	239.58	11,781.4	132.9	-1,249.1	1,256.1	0.00	0.00	
12,000.0	0.32	239.58	11,881.4	132.7	-1,249.5	1,256.6	0.00	0.00	
12,100.0	0.32	239.58	11,981.4	132.4	-1,250.0	1,257.0	0.00	0.00	
12,200.0	0.32	239.58	12,081.4	132.1	-1,250.5	1,257.5	0.00	0.00	
12,300.0	0.32	239.58	12,181.4	131.8	-1,251.0	1,257.9	0.00	0.00	
12,400.0	0.32	239.58	12,281.4	131.5	-1,251.5	1,258.4	0.00	0.00	
12,500.0	0.32	239.58	12,381.4	131.2	-1,251.9	1,258.8	0.00	0.00	
12,600.0	0.32	239.58	12,481.4	131.0	-1,252.4	1,259.3	0.00	0.00	
12,700.0	0.32	239.58	12,581.4	130.7	-1,252.9	1,259.7	0.00	0.00	
12,800.0	0.32	239.58	12,681.4	130.4	-1,253.4	1,260.2	0.00	0.00	
12,900.0	0.32	239.58	12,781.4	130.1	-1,253.9	1,260.6	0.00	0.00	
13,000.0	0.32	239.58	12,881.4	129.8	-1,254.4	1,261.1	0.00	0.00	Permit TD @ 13,000' MD

# Cathedral Energy Services

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well UWF07B-04 H04 596
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	KBE @ 8293.0ft (Original Well Elev)
<b>Project:</b>	North Piceance	<b>MD Reference:</b>	KBE @ 8293.0ft (Original Well Elev)
<b>Site:</b>	H04 596 Pad	<b>North Reference:</b>	True
<b>Well:</b>	UWF07B-04 H04 596	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	DD		
<b>Design:</b>	Plan #2		

Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
UWF07B-04 TGT (2)	0.00	0.00	7,238.0	145.6	-1,227.5	1,671,404.85	2,248,432.74	39° 38' 47.33 N	108° 10' 9.64 W
- plan hits target center									
- Rectangle (sides W30.0 H50.0 D0.0)									
UWF07B-04 TGT	0.00	0.00	7,238.0	145.8	3,465.8	1,671,267.39	2,253,124.03	39° 38' 47.33 N	108° 9' 9.64 W
- plan misses target center by 4642.0ft at 6455.6ft MD (6349.4 TVD, 129.7 N, -1090.4 E)									
- Point									
UWF07B-04 PBHL (2)	0.00	0.00	10,840.0	135.6	-1,244.5	1,671,395.37	2,248,415.45	39° 38' 47.23 N	108° 10' 9.86 W
- plan hits target center									
- Rectangle (sides W30.0 H50.0 D0.0)									
UWF07B-04 PBHL	0.00	0.00	10,840.0	135.8	3,448.8	1,671,257.92	2,253,106.73	39° 38' 47.23 N	108° 9' 9.86 W
- plan misses target center by 4693.2ft at 10935.9ft MD (10817.3 TVD, 135.7 N, -1244.4 E)									
- Rectangle (sides W30.0 H50.0 D0.0)									

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(ft)	(ft)			(°)	(°)	
1,090.7	1,085.0	A GROOVE				
1,253.7	1,245.0	B GROOVE				
1,294.5	1,285.0	B GROOVE BASE				
2,124.0	2,099.0	GARDEN GULCH				
3,187.0	3,142.0	WASATCH FM				
5,310.8	5,226.0	WASATCH G				
7,356.5	7,238.0	WILLIAMS FORK				
10,958.6	10,840.0	ROLLINS				
11,186.6	11,068.0	COZZETTE				
11,355.6	11,237.0	CORCORAN				
11,651.6	11,533.0	UPPER SEGO				

Plan Annotations					
Measured Depth	Vertical Depth	Local Coordinates		Comment	
(ft)	(ft)	+N/-S (ft)	+E/-W (ft)		
350.0	350.0	0.0	0.0	KOP @ 350'	
918.2	915.8	7.0	-30.2	EOB @ Inc. = 11.11°	
6,986.1	6,869.9	141.5	-1,191.9	Start 3° Drop	
7,356.5	7,238.0	145.6	-1,227.5	EOD @ Inc. = 0°	
10,958.6	10,840.0	135.6	-1,244.5	TD @ 10,958.6' MD	
13,000.0	12,881.4	129.8	-1,254.4	Permit TD @ 13,000' MD	