



Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well 8516C-33 E34 496
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 8324.0ft (Original Well Elev)
Project:	Story Gulch	MD Reference:	WELL @ 8324.0ft (Original Well Elev)
Site:	S33-T4S-R96W (E34 496)	North Reference:	True
Well:	8516C-33 E34 496	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #1		

Project	Story Gulch		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Central Zone		

Site		S33-T4S-R96W (E34 496)			
Site Position:		Northing:	1,676,257.20 ft	Latitude:	39° 39' 36.020 N
From:	Lat/Long	Easting:	2,251,040.13 ft	Longitude:	108° 9' 38.140 W
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	-1.68 °

Well	8516C-33 E34 496					
Well Position	+N/-S	0.0 ft	Northing:	1,676,118.16 ft	Latitude:	39° 39' 34.640 N
	+E/-W	0.0 ft	Easting:	2,251,017.28 ft	Longitude:	108° 9' 38.380 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	8,301.0 ft

Wellbore	DD				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	6/19/2012	10.32	65.82	52,197

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	222.36

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	
200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,152.1	28.56	222.29	1,113.1	-172.0	-156.4	3.00	3.00	0.00	222.29	
7,222.6	28.56	222.29	6,444.9	-2,319.1	-2,109.3	0.00	0.00	0.00	0.00	
8,174.7	0.00	0.00	7,358.0	-2,491.1	-2,265.7	3.00	-3.00	0.00	180.00	E34 496 8516C-33 TC
8,219.7	0.22	236.30	7,402.9	-2,491.1	-2,265.8	0.50	0.50	-275.23	236.30	
12,805.8	0.22	236.30	11,989.0	-2,501.1	-2,280.7	0.00	0.00	0.00	0.00	E34 496 8516C-33 PE
12,955.8	0.22	236.30	12,139.0	-2,501.5	-2,281.2	0.00	0.00	0.00	0.00	

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Project:	Story Gulch	MD Reference:	WELL @ 8324.0ft (Original Well Elev)
Site:	S33-T4S-R96W (E34 496)	North Reference:	True
Well:	8516C-33 E34 496	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	KOP @ 200'
300.0	3.00	222.29	300.0	-1.9	-1.8	2.6	3.00	3.00	
400.0	6.00	222.29	399.6	-7.7	-7.0	10.5	3.00	3.00	
500.0	9.00	222.29	498.8	-17.4	-15.8	23.5	3.00	3.00	
600.0	12.00	222.29	597.1	-30.9	-28.1	41.7	3.00	3.00	
700.0	15.00	222.29	694.3	-48.1	-43.8	65.1	3.00	3.00	
800.0	18.00	222.29	790.2	-69.2	-62.9	93.5	3.00	3.00	
900.0	21.00	222.29	884.4	-93.8	-85.4	126.9	3.00	3.00	
1,000.0	24.00	222.29	976.8	-122.1	-111.1	165.1	3.00	3.00	
1,100.0	27.00	222.29	1,067.1	-154.0	-140.1	208.2	3.00	3.00	
1,152.1	28.56	222.29	1,113.1	-172.0	-156.4	232.4	3.00	3.00	EOB; Inc=28.56°
1,188.4	28.56	222.29	1,145.0	-184.8	-168.1	249.8	0.00	0.00	A_GROOVE_TVD
1,200.0	28.56	222.29	1,155.2	-188.9	-171.8	255.3	0.00	0.00	
1,300.0	28.56	222.29	1,243.1	-224.3	-204.0	303.2	0.00	0.00	
1,368.3	28.56	222.29	1,303.0	-248.4	-225.9	335.8	0.00	0.00	B_GROOVE_TVD
1,400.0	28.56	222.29	1,330.9	-259.6	-236.1	351.0	0.00	0.00	
1,400.1	28.56	222.29	1,331.0	-259.7	-236.2	351.0	0.00	0.00	B_GROOVE_BASE_TVD
1,500.0	28.56	222.29	1,418.7	-295.0	-268.3	398.8	0.00	0.00	
1,600.0	28.56	222.29	1,506.5	-330.4	-300.5	446.6	0.00	0.00	
1,700.0	28.56	222.29	1,594.4	-365.8	-332.7	494.4	0.00	0.00	
1,800.0	28.56	222.29	1,682.2	-401.1	-364.8	542.2	0.00	0.00	
1,900.0	28.56	222.29	1,770.0	-436.5	-397.0	590.0	0.00	0.00	
2,000.0	28.56	222.29	1,857.9	-471.9	-429.2	637.8	0.00	0.00	
2,100.0	28.56	222.29	1,945.7	-507.2	-461.3	685.7	0.00	0.00	
2,200.0	28.56	222.29	2,033.5	-542.6	-493.5	733.5	0.00	0.00	
2,300.0	28.56	222.29	2,121.3	-578.0	-525.7	781.3	0.00	0.00	
2,381.6	28.56	222.29	2,193.0	-606.8	-551.9	820.3	0.00	0.00	GARDEN_GULCH_TVD
2,400.0	28.56	222.29	2,209.2	-613.3	-557.9	829.1	0.00	0.00	
2,500.0	28.56	222.29	2,297.0	-648.7	-590.0	876.9	0.00	0.00	
2,600.0	28.56	222.29	2,384.8	-684.1	-622.2	924.7	0.00	0.00	
2,700.0	28.56	222.29	2,472.7	-719.5	-654.4	972.5	0.00	0.00	
2,800.0	28.56	222.29	2,560.5	-754.8	-686.5	1,020.3	0.00	0.00	
2,900.0	28.56	222.29	2,648.3	-790.2	-718.7	1,068.2	0.00	0.00	
3,000.0	28.56	222.29	2,736.1	-825.6	-750.9	1,116.0	0.00	0.00	
3,100.0	28.56	222.29	2,824.0	-860.9	-783.0	1,163.8	0.00	0.00	
3,200.0	28.56	222.29	2,911.8	-896.3	-815.2	1,211.6	0.00	0.00	
3,300.0	28.56	222.29	2,999.6	-931.7	-847.4	1,259.4	0.00	0.00	
3,400.0	28.56	222.29	3,087.5	-967.1	-879.6	1,307.2	0.00	0.00	
3,500.0	28.56	222.29	3,175.3	-1,002.4	-911.7	1,355.0	0.00	0.00	
3,550.9	28.56	222.29	3,220.0	-1,020.4	-928.1	1,379.4	0.00	0.00	WASATCH_FM_TVD
3,600.0	28.56	222.29	3,263.1	-1,037.8	-943.9	1,402.8	0.00	0.00	
3,700.0	28.56	222.29	3,351.0	-1,073.2	-976.1	1,450.7	0.00	0.00	
3,800.0	28.56	222.29	3,438.8	-1,108.5	-1,008.2	1,498.5	0.00	0.00	
3,900.0	28.56	222.29	3,526.6	-1,143.9	-1,040.4	1,546.3	0.00	0.00	
4,000.0	28.56	222.29	3,614.4	-1,179.3	-1,072.6	1,594.1	0.00	0.00	
4,100.0	28.56	222.29	3,702.3	-1,214.7	-1,104.7	1,641.9	0.00	0.00	
4,200.0	28.56	222.29	3,790.1	-1,250.0	-1,136.9	1,689.7	0.00	0.00	
4,300.0	28.56	222.29	3,877.9	-1,285.4	-1,169.1	1,737.5	0.00	0.00	
4,400.0	28.56	222.29	3,965.8	-1,320.8	-1,201.3	1,785.3	0.00	0.00	
4,500.0	28.56	222.29	4,053.6	-1,356.1	-1,233.4	1,833.1	0.00	0.00	

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Site:	S33-T4S-R96W (E34 496)	North Reference:	True
Well:	8516C-33 E34 496	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
4,600.0	28.56	222.29	4,141.4	-1,391.5	-1,265.6	1,881.0	0.00	0.00	
4,700.0	28.56	222.29	4,229.2	-1,426.9	-1,297.8	1,928.8	0.00	0.00	
4,800.0	28.56	222.29	4,317.1	-1,462.2	-1,329.9	1,976.6	0.00	0.00	
4,900.0	28.56	222.29	4,404.9	-1,497.6	-1,362.1	2,024.4	0.00	0.00	
5,000.0	28.56	222.29	4,492.7	-1,533.0	-1,394.3	2,072.2	0.00	0.00	
5,100.0	28.56	222.29	4,580.6	-1,568.4	-1,426.4	2,120.0	0.00	0.00	
5,200.0	28.56	222.29	4,668.4	-1,603.7	-1,458.6	2,167.8	0.00	0.00	
5,300.0	28.56	222.29	4,756.2	-1,639.1	-1,490.8	2,215.6	0.00	0.00	
5,400.0	28.56	222.29	4,844.1	-1,674.5	-1,523.0	2,263.5	0.00	0.00	
5,500.0	28.56	222.29	4,931.9	-1,709.8	-1,555.1	2,311.3	0.00	0.00	
5,600.0	28.56	222.29	5,019.7	-1,745.2	-1,587.3	2,359.1	0.00	0.00	
5,700.0	28.56	222.29	5,107.5	-1,780.6	-1,619.5	2,406.9	0.00	0.00	
5,800.0	28.56	222.29	5,195.4	-1,816.0	-1,651.6	2,454.7	0.00	0.00	
5,900.0	28.56	222.29	5,283.2	-1,851.3	-1,683.8	2,502.5	0.00	0.00	
5,937.3	28.56	222.29	5,316.0	-1,864.5	-1,695.8	2,520.4	0.00	0.00	WASATCH_G_TVD
6,000.0	28.56	222.29	5,371.0	-1,886.7	-1,716.0	2,550.3	0.00	0.00	
6,100.0	28.56	222.29	5,458.9	-1,922.1	-1,748.2	2,598.1	0.00	0.00	
6,200.0	28.56	222.29	5,546.7	-1,957.4	-1,780.3	2,646.0	0.00	0.00	
6,300.0	28.56	222.29	5,634.5	-1,992.8	-1,812.5	2,693.8	0.00	0.00	
6,400.0	28.56	222.29	5,722.3	-2,028.2	-1,844.7	2,741.6	0.00	0.00	
6,500.0	28.56	222.29	5,810.2	-2,063.5	-1,876.8	2,789.4	0.00	0.00	
6,600.0	28.56	222.29	5,898.0	-2,098.9	-1,909.0	2,837.2	0.00	0.00	
6,700.0	28.56	222.29	5,985.8	-2,134.3	-1,941.2	2,885.0	0.00	0.00	
6,800.0	28.56	222.29	6,073.7	-2,169.7	-1,973.3	2,932.8	0.00	0.00	
6,900.0	28.56	222.29	6,161.5	-2,205.0	-2,005.5	2,980.6	0.00	0.00	
7,000.0	28.56	222.29	6,249.3	-2,240.4	-2,037.7	3,028.5	0.00	0.00	
7,100.0	28.56	222.29	6,337.2	-2,275.8	-2,069.9	3,076.3	0.00	0.00	
7,200.0	28.56	222.29	6,425.0	-2,311.1	-2,102.0	3,124.1	0.00	0.00	
7,222.6	28.56	222.29	6,444.9	-2,319.1	-2,109.3	3,134.9	0.00	0.00	Start Drop -3.00
7,300.0	26.24	222.29	6,513.5	-2,345.5	-2,133.3	3,170.5	3.00	-3.00	
7,400.0	23.24	222.29	6,604.4	-2,376.4	-2,161.4	3,212.4	3.00	-3.00	
7,500.0	20.24	222.29	6,697.2	-2,403.8	-2,186.3	3,249.4	3.00	-3.00	
7,600.0	17.24	222.29	6,791.9	-2,427.6	-2,208.0	3,281.5	3.00	-3.00	
7,700.0	14.24	222.29	6,888.2	-2,447.7	-2,226.2	3,308.6	3.00	-3.00	
7,800.0	11.24	222.29	6,985.7	-2,464.0	-2,241.0	3,330.7	3.00	-3.00	
7,900.0	8.24	222.29	7,084.2	-2,476.5	-2,252.4	3,347.6	3.00	-3.00	
8,000.0	5.24	222.29	7,183.5	-2,485.2	-2,260.3	3,359.4	3.00	-3.00	
8,100.0	2.24	222.29	7,283.3	-2,490.0	-2,264.7	3,365.9	3.00	-3.00	
8,174.7	0.00	0.00	7,358.0	-2,491.1	-2,265.7	3,367.3	3.00	-3.00	EOD; Inc=0° - WILLIAMS_FORK_TVD - E34 496
8,200.0	0.13	236.30	7,383.3	-2,491.1	-2,265.7	3,367.4	0.50	0.50	
8,219.7	0.22	236.30	7,402.9	-2,491.1	-2,265.8	3,367.4	0.50	0.50	
8,300.0	0.22	236.30	7,483.3	-2,491.3	-2,266.0	3,367.7	0.00	0.00	
8,400.0	0.22	236.30	7,583.3	-2,491.5	-2,266.4	3,368.1	0.00	0.00	
8,500.0	0.22	236.30	7,683.3	-2,491.8	-2,266.7	3,368.5	0.00	0.00	
8,600.0	0.22	236.30	7,783.3	-2,492.0	-2,267.0	3,368.9	0.00	0.00	
8,700.0	0.22	236.30	7,883.3	-2,492.2	-2,267.3	3,369.3	0.00	0.00	
8,800.0	0.22	236.30	7,983.3	-2,492.4	-2,267.7	3,369.6	0.00	0.00	
8,900.0	0.22	236.30	8,083.3	-2,492.6	-2,268.0	3,370.0	0.00	0.00	
9,000.0	0.22	236.30	8,183.3	-2,492.8	-2,268.3	3,370.4	0.00	0.00	
9,100.0	0.22	236.30	8,283.3	-2,493.1	-2,268.6	3,370.8	0.00	0.00	
9,200.0	0.22	236.30	8,383.3	-2,493.3	-2,269.0	3,371.2	0.00	0.00	
9,300.0	0.22	236.30	8,483.3	-2,493.5	-2,269.3	3,371.5	0.00	0.00	

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Project:	Story Gulch	MD Reference:	WELL @ 8324.0ft (Original Well Elev)
Site:	S33-T4S-R96W (E34 496)	North Reference:	True
Well:	8516C-33 E34 496	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
9,400.0	0.22	236.30	8,583.3	-2,493.7	-2,269.6	3,371.9	0.00	0.00	
9,500.0	0.22	236.30	8,683.3	-2,493.9	-2,270.0	3,372.3	0.00	0.00	
9,600.0	0.22	236.30	8,783.3	-2,494.2	-2,270.3	3,372.7	0.00	0.00	
9,700.0	0.22	236.30	8,883.3	-2,494.4	-2,270.6	3,373.1	0.00	0.00	
9,800.0	0.22	236.30	8,983.3	-2,494.6	-2,270.9	3,373.4	0.00	0.00	
9,900.0	0.22	236.30	9,083.3	-2,494.8	-2,271.3	3,373.8	0.00	0.00	
10,000.0	0.22	236.30	9,183.3	-2,495.0	-2,271.6	3,374.2	0.00	0.00	
10,100.0	0.22	236.30	9,283.3	-2,495.2	-2,271.9	3,374.6	0.00	0.00	
10,200.0	0.22	236.30	9,383.3	-2,495.5	-2,272.2	3,375.0	0.00	0.00	
10,300.0	0.22	236.30	9,483.3	-2,495.7	-2,272.6	3,375.3	0.00	0.00	
10,400.0	0.22	236.30	9,583.3	-2,495.9	-2,272.9	3,375.7	0.00	0.00	
10,500.0	0.22	236.30	9,683.3	-2,496.1	-2,273.2	3,376.1	0.00	0.00	
10,600.0	0.22	236.30	9,783.3	-2,496.3	-2,273.5	3,376.5	0.00	0.00	
10,700.0	0.22	236.30	9,883.3	-2,496.5	-2,273.9	3,376.9	0.00	0.00	
10,800.0	0.22	236.30	9,983.3	-2,496.8	-2,274.2	3,377.2	0.00	0.00	
10,900.0	0.22	236.30	10,083.3	-2,497.0	-2,274.5	3,377.6	0.00	0.00	
11,000.0	0.22	236.30	10,183.3	-2,497.2	-2,274.8	3,378.0	0.00	0.00	
11,100.0	0.22	236.30	10,283.3	-2,497.4	-2,275.2	3,378.4	0.00	0.00	
11,200.0	0.22	236.30	10,383.3	-2,497.6	-2,275.5	3,378.8	0.00	0.00	
11,300.0	0.22	236.30	10,483.3	-2,497.9	-2,275.8	3,379.1	0.00	0.00	
11,333.7	0.22	236.30	10,517.0	-2,497.9	-2,275.9	3,379.3	0.00	0.00	CAMEO_TVD
11,400.0	0.22	236.30	10,583.3	-2,498.1	-2,276.2	3,379.5	0.00	0.00	
11,500.0	0.22	236.30	10,683.3	-2,498.3	-2,276.5	3,379.9	0.00	0.00	
11,600.0	0.22	236.30	10,783.3	-2,498.5	-2,276.8	3,380.3	0.00	0.00	
11,700.0	0.22	236.30	10,883.3	-2,498.7	-2,277.1	3,380.7	0.00	0.00	
11,785.7	0.22	236.30	10,969.0	-2,498.9	-2,277.4	3,381.0	0.00	0.00	ROLLINS_TVD
11,800.0	0.22	236.30	10,983.3	-2,498.9	-2,277.5	3,381.1	0.00	0.00	
11,900.0	0.22	236.30	11,083.3	-2,499.2	-2,277.8	3,381.4	0.00	0.00	
12,000.0	0.22	236.30	11,183.3	-2,499.4	-2,278.1	3,381.8	0.00	0.00	
12,024.7	0.22	236.30	11,208.0	-2,499.4	-2,278.2	3,381.9	0.00	0.00	COZZETTE_TVD
12,100.0	0.22	236.30	11,283.3	-2,499.6	-2,278.4	3,382.2	0.00	0.00	
12,200.0	0.22	236.30	11,383.2	-2,499.8	-2,278.8	3,382.6	0.00	0.00	
12,203.8	0.22	236.30	11,387.0	-2,499.8	-2,278.8	3,382.6	0.00	0.00	CORCORAN_TVD
12,300.0	0.22	236.30	11,483.2	-2,500.0	-2,279.1	3,383.0	0.00	0.00	
12,400.0	0.22	236.30	11,583.2	-2,500.2	-2,279.4	3,383.3	0.00	0.00	
12,500.0	0.22	236.30	11,683.2	-2,500.5	-2,279.7	3,383.7	0.00	0.00	
12,505.8	0.22	236.30	11,689.0	-2,500.5	-2,279.8	3,383.7	0.00	0.00	UPPER_SEGO_TVD
12,600.0	0.22	236.30	11,783.2	-2,500.7	-2,280.1	3,384.1	0.00	0.00	
12,655.8	0.22	236.30	11,839.0	-2,500.8	-2,280.2	3,384.3	0.00	0.00	SEGO_BASE_TARGET_TVD
12,700.0	0.22	236.30	11,883.2	-2,500.9	-2,280.4	3,384.5	0.00	0.00	
12,800.0	0.22	236.30	11,983.2	-2,501.1	-2,280.7	3,384.9	0.00	0.00	
12,805.8	0.22	236.30	11,989.0	-2,501.1	-2,280.7	3,384.9	0.00	0.00	Drillers TD @ 12,805' MD - E34 496 8516C-33
12,900.0	0.22	236.30	12,083.2	-2,501.3	-2,281.0	3,385.2	0.00	0.00	
12,955.8	0.22	236.30	12,139.0	-2,501.5	-2,281.2	3,385.5	0.00	0.00	Permit TD @ 12,955' MD

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well 8516C-33 E34 496
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 8324.0ft (Original Well Elev)
Project:	Story Gulch	MD Reference:	WELL @ 8324.0ft (Original Well Elev)
Site:	S33-T4S-R96W (E34 496)	North Reference:	True
Well:	8516C-33 E34 496	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #1		

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)		
E34 496 8516C-33 PBH	0.00	0.00	11,989.0	-2,501.1	-2,280.7	1,673,684.90	2,248,664.28	39° 39' 9.920 N	108° 10' 7.540 W
- plan hits target center									
- Rectangle (sides W30.0 H50.0 D0.0)									
E34 496 8516C-33 TGT	0.00	0.00	7,358.0	-2,491.1	-2,265.7	1,673,694.48	2,248,679.61	39° 39' 10.019 N	108° 10' 7.348 W
- plan hits target center									
- Point									

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(ft)	(ft)			(°)	(°)	
1,188.4	1,145.0	A_GROOVE_TVD				
1,368.3	1,303.0	B_GROOVE_TVD				
1,400.1	1,331.0	B_GROOVE_BASE_TVD				
2,381.6	2,193.0	GARDEN_GULCH_TVD				
3,550.9	3,220.0	WASATCH_FM_TVD				
5,937.3	5,316.0	WASATCH_G_TVD				
8,174.7	7,358.0	WILLIAMS_FORK_TVD				
11,333.7	10,517.0	CAMEO_TVD				
11,785.7	10,969.0	ROLLINS_TVD				
12,024.7	11,208.0	COZZETTE_TVD				
12,203.8	11,387.0	CORCORAN_TVD				
12,505.8	11,689.0	UPPER_SEGO_TVD				
12,655.8	11,839.0	SEGO_BASE_TARGET_TVD				

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(ft)	(ft)	+N/-S (ft)	+E/-W (ft)	
200.0	200.0	0.0	0.0	KOP @ 200'
1,152.1	1,113.1	-172.0	-156.4	EOB; Inc=28.56°
7,222.6	6,444.9	-2,319.1	-2,109.3	Start Drop -3.00
8,174.7	7,358.0	-2,491.1	-2,265.7	EOD; Inc=0°
12,805.8	11,989.0	-2,491.1	-2,265.8	Drillers TD @ 12,805' MD
12,955.8	12,139.0	-2,501.1	-2,280.7	Permit TD @ 12,955' MD