



Well Name: **Coors Energy 25XD**

Surface Location: Coors Energy 33-25D Pad Sec.25-T3N-R64W
North American Datum 1983 US State Plane 1983 Colorado Northern Zone

Ground Elevation: 4790.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	1314021.29	3280678.70	40° 11' 27.672 N	104° 29' 43.044 W

Original Well Elev WELL @ 4803.0ft (Original Well Elev)

Slot

PETROLEUM DEVELOPMENT CORP Weld County CO

Projected BHL 636'N & 1274'E of
surface 1318'FSL & 105'FEL



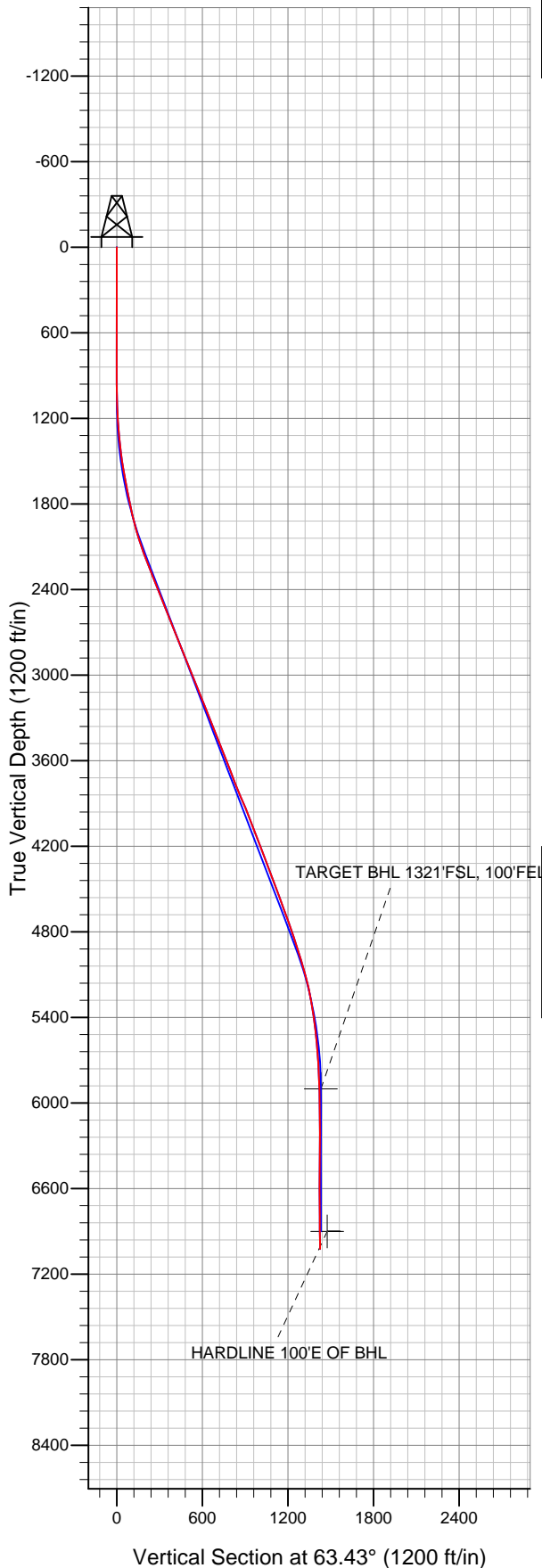
LEGEND

- Coors Energy 25XD, Wellbore #1, Plan #1 (6-2-10) V0
- Wellbore #1
- Survey #1

Final Survey Plot

Projected Final Survey -
7263'MD & 7024'TVD @ 1424'VS
0.6 deg Inc 128.5 deg AZ

Project: SEC.25-T3N-R64W
Site: Coors Energy 33-25D Pad Sec.25-T3N-R64W
Well: Coors Energy 25XD
Plan: Wellbore #1





Directional

PETROLEUM DEVELOPMENT CORP Weld County CO

SEC.25-T3N-R64W

Coors Energy 33-25D Pad Sec.25-T3N-R64W

Coors Energy 25XD

Wellbore #1

Survey: Survey #1

Standard Survey Report

12 August, 2011

Company:	PETROLEUM DEVELOPMENT CORP Weld County CO	Local Co-ordinate Reference:	Well Coors Energy 25XD
Project:	SEC.25-T3N-R64W	TVD Reference:	WELL @ 4803.0ft (Original Well Elev)
Site:	Coors Energy 33-25D Pad Sec.25-T3N-R64W	MD Reference:	WELL @ 4803.0ft (Original Well Elev)
Well:	Coors Energy 25XD	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Landmark

Project	SEC.25-T3N-R64W, Weld County, Colorado		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		Using geodetic scale factor

Site	Coors Energy 33-25D Pad Sec.25-T3N-R64W				
Site Position:		Northing:	1,314,068.69ft	Latitude:	40° 11' 28.140 N
From:	Lat/Long	Easting:	3,280,680.96ft	Longitude:	104° 29' 43.008 W
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.65 °

Well	Coors Energy 25XD					
Well Position	+N-S	0.0 ft	Northing:	1,314,021.29 ft	Latitude:	40° 11' 27.672 N
	+E-W	0.0 ft	Easting:	3,280,678.70 ft	Longitude:	104° 29' 43.044 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,790.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	5/2/2011	8.72	66.93	53,064

Design	Wellbore #1				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.0	0.0	0.0	63.43	

Survey Program	Date	8/11/2011			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
770.0	7,263.0	Survey #1 (Wellbore #1)	MWD	MWD - Standard	

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
770.0	0.30	279.90	770.0	0.3	-2.0	-1.6	0.04	0.04	0.00	
865.0	0.40	91.30	865.0	0.4	-1.9	-1.5	0.73	0.11	180.42	
959.0	0.70	108.20	959.0	0.2	-1.0	-0.8	0.36	0.32	17.98	
1,054.0	1.30	69.50	1,054.0	0.4	0.5	0.7	0.92	0.63	-40.74	
1,149.0	2.50	65.00	1,148.9	1.6	3.4	3.8	1.27	1.26	-4.74	
1,244.0	4.20	51.60	1,243.8	4.7	8.0	9.3	1.96	1.79	-14.11	
1,339.0	5.50	55.80	1,338.4	9.4	14.5	17.2	1.42	1.37	4.42	
1,434.0	7.10	57.60	1,432.8	15.1	23.2	27.5	1.70	1.68	1.89	
1,529.0	9.10	63.00	1,526.9	21.7	34.9	40.9	2.25	2.11	5.68	
1,624.0	10.20	65.20	1,620.5	28.6	49.2	56.8	1.22	1.16	2.32	
1,719.0	11.20	63.80	1,713.9	36.2	65.1	74.5	1.09	1.05	-1.47	

Company:	PETROLEUM DEVELOPMENT CORP Weld County CO	Local Co-ordinate Reference:	Well Coors Energy 25XD
Project:	SEC.25-T3N-R64W	TVD Reference:	WELL @ 4803.0ft (Original Well Elev)
Site:	Coors Energy 33-25D Pad Sec.25-T3N-R64W	MD Reference:	WELL @ 4803.0ft (Original Well Elev)
Well:	Coors Energy 25XD	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Landmark

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
1,814.0	11.70	67.90	1,807.0	43.9	82.3	93.3	1.01	0.53	4.32
1,909.0	14.10	65.30	1,899.6	52.4	101.8	114.5	2.60	2.53	-2.74
2,004.0	15.80	68.30	1,991.4	62.0	124.3	138.9	1.97	1.79	3.16
2,098.0	18.00	66.80	2,081.3	72.4	149.6	166.2	2.39	2.34	-1.60
2,193.0	20.20	63.50	2,171.1	85.5	177.7	197.2	2.58	2.32	-3.47
2,288.0	22.80	64.70	2,259.5	100.7	209.1	232.0	2.78	2.74	1.26
2,383.0	21.80	63.00	2,347.4	116.6	241.4	268.1	1.25	-1.05	-1.79
2,478.0	21.70	65.10	2,435.6	132.0	273.1	303.3	0.83	-0.11	2.21
2,573.0	21.80	65.30	2,523.8	146.8	305.0	338.5	0.13	0.11	0.21
2,668.0	20.70	64.90	2,612.4	161.3	336.3	372.9	1.17	-1.16	-0.42
2,763.0	21.50	65.10	2,701.0	175.7	367.2	407.1	0.85	0.84	0.21
2,858.0	22.20	64.70	2,789.2	190.7	399.3	442.4	0.75	0.74	-0.42
2,952.0	22.10	63.30	2,876.2	206.3	431.1	477.8	0.57	-0.11	-1.49
3,047.0	22.20	63.90	2,964.2	222.2	463.2	513.7	0.26	0.11	0.63
3,142.0	21.50	61.70	3,052.4	238.3	494.6	549.0	1.13	-0.74	-2.32
3,237.0	21.70	63.40	3,140.7	254.4	525.7	584.0	0.69	0.21	1.79
3,331.0	23.40	62.60	3,227.5	270.8	557.8	620.0	1.84	1.81	-0.85
3,426.0	21.00	61.30	3,315.5	287.7	589.5	655.9	2.58	-2.53	-1.37
3,521.0	21.70	62.50	3,404.0	304.0	620.0	690.5	0.87	0.74	1.26
3,616.0	21.70	61.90	3,492.2	320.3	651.1	725.6	0.23	0.00	-0.63
3,711.0	21.50	62.80	3,580.6	336.6	682.0	760.5	0.41	-0.21	0.95
3,806.0	21.00	61.40	3,669.1	352.7	712.5	795.0	0.75	-0.53	-1.47
3,901.0	21.60	64.60	3,757.6	368.3	743.2	829.5	1.38	0.63	3.37
3,996.0	23.10	64.20	3,845.5	383.9	775.8	865.6	1.59	1.58	-0.42
4,090.0	22.80	63.10	3,932.1	400.2	808.6	902.2	0.56	-0.32	-1.17
4,185.0	20.70	66.10	4,020.3	415.3	840.4	937.4	2.50	-2.21	3.16
4,280.0	19.90	65.10	4,109.4	428.9	870.4	970.4	0.92	-0.84	-1.05
4,375.0	21.60	63.70	4,198.2	443.5	900.8	1,004.0	1.86	1.79	-1.47
4,470.0	20.70	62.50	4,286.8	459.0	931.3	1,038.3	1.05	-0.95	-1.26
4,565.0	21.10	62.70	4,375.6	474.6	961.4	1,072.2	0.43	0.42	0.21
4,660.0	20.40	65.40	4,464.4	489.3	991.7	1,105.8	1.25	-0.74	2.84
4,754.0	20.00	64.10	4,552.6	503.2	1,021.0	1,138.3	0.64	-0.43	-1.38
4,849.0	20.60	59.20	4,641.7	518.8	1,050.0	1,171.2	1.90	0.63	-5.16
4,944.0	19.70	65.60	4,730.9	534.0	1,078.9	1,203.8	2.51	-0.95	6.74
5,039.0	17.50	63.00	4,821.0	547.1	1,106.2	1,234.1	2.47	-2.32	-2.74
5,134.0	18.00	67.90	4,911.4	559.1	1,132.6	1,263.0	1.66	0.53	5.16
5,229.0	17.50	66.00	5,001.9	570.4	1,159.2	1,292.0	0.81	-0.53	-2.00
5,324.0	15.60	65.30	5,093.0	581.6	1,183.9	1,319.0	2.01	-2.00	-0.74
5,419.0	12.60	60.40	5,185.1	592.1	1,204.5	1,342.1	3.40	-3.16	-5.16
5,513.0	10.50	59.30	5,277.2	601.5	1,220.8	1,360.9	2.25	-2.23	-1.17
5,608.0	8.50	55.30	5,370.9	609.9	1,234.0	1,376.5	2.22	-2.11	-4.21
5,703.0	7.00	54.50	5,465.0	617.3	1,244.5	1,389.2	1.58	-1.58	-0.84
5,798.0	5.50	54.50	5,559.5	623.3	1,252.9	1,399.4	1.58	-1.58	0.00
5,893.0	4.50	53.10	5,654.1	628.2	1,259.6	1,407.5	1.06	-1.05	-1.47
5,988.0	3.80	45.00	5,748.9	632.6	1,264.8	1,414.2	0.96	-0.74	-8.53
6,083.0	1.80	45.10	5,843.7	635.9	1,268.1	1,418.6	2.11	-2.11	0.11
6,139.5	1.49	38.67	5,900.2	637.1	1,269.2	1,420.1	0.63	-0.54	-11.39
TARGET BHL 1321'FSL, 100'FEL									
6,178.0	1.30	32.60	5,938.7	637.9	1,269.7	1,420.9	0.63	-0.50	-15.76
6,273.0	0.90	8.50	6,033.7	639.5	1,270.4	1,422.3	0.64	-0.42	-25.37
6,368.0	0.70	348.10	6,128.7	640.8	1,270.4	1,422.9	0.36	-0.21	-21.47
6,463.0	0.60	330.10	6,223.7	641.8	1,270.0	1,423.0	0.24	-0.11	-18.95
6,558.0	0.40	335.40	6,318.7	642.5	1,269.6	1,423.0	0.22	-0.21	5.58

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Survey									
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6,653.0	0.20	189.90	6,413.7	642.7	1,269.5	1,422.9	0.61	-0.21	-153.16
6,748.0	0.70	168.80	6,508.7	641.9	1,269.6	1,422.6	0.55	0.53	-22.21
6,843.0	1.30	154.00	6,603.6	640.4	1,270.1	1,422.5	0.68	0.63	-15.58
6,938.0	1.00	141.40	6,698.6	638.8	1,271.1	1,422.6	0.41	-0.32	-13.26
7,033.0	0.80	129.30	6,793.6	637.7	1,272.2	1,423.1	0.29	-0.21	-12.74
7,128.0	0.60	125.60	6,888.6	637.0	1,273.1	1,423.6	0.22	-0.21	-3.89
7,140.9	0.60	125.99	6,901.5	636.9	1,273.2	1,423.6	0.03	0.00	3.05
HARDLINE 100'E OF BHL									
7,223.0	0.60	128.50	6,983.6	636.4	1,273.9	1,424.0	0.03	0.00	3.05
7,263.0	0.60	128.50	7,023.6	636.2	1,274.2	1,424.2	0.00	0.00	0.00

Checked By: _____	Approved By: _____	Date: _____
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