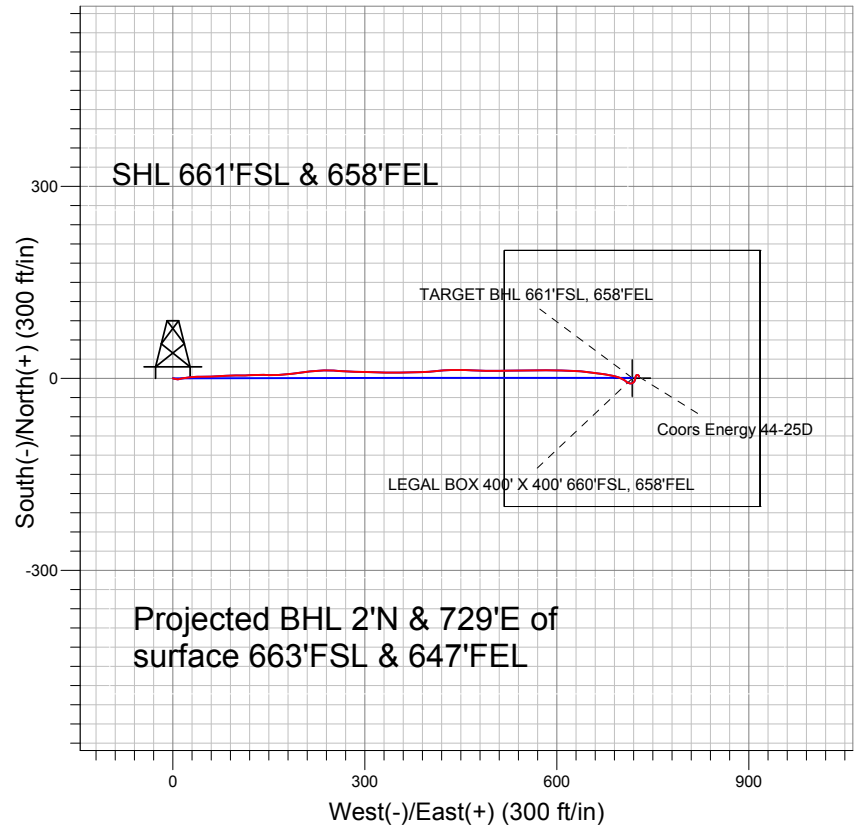
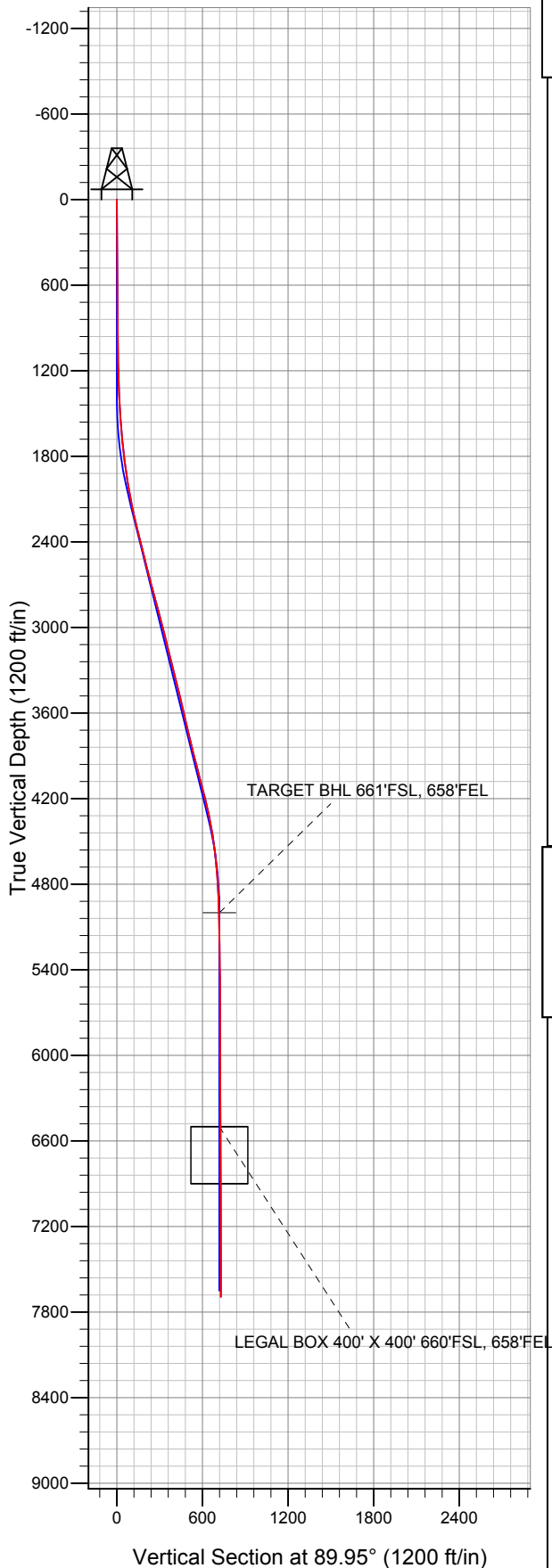


PETROLEUM DEVELOPMENT CORP Weld County CO



L E G E N D

- Coors Energy 44-25D, Wellbore #1, Plan #1 (6-2-10) V0
- Wellbore #1
- Survey #1

Final Survey Plot

Projected Final Survey -
 7770'MD & 7692'TVD @ 729'VS
 0.2 deg Inc 165.0 deg AZ

Project: SEC.25-T3N-R64W
 Site: Coors Energy 33-25D Pad Sec.25-T3N-R64W
 Well: Coors Energy 44-25D
 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 44-25D

Wellbore #1

Survey: Survey #1

Standard Survey Report

16 August, 2011

Company:	PETROLEUM DEVELOPMENT CORP Weld County CO	Local Co-ordinate Reference:	Well Coors Energy 44-25D
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 44-25D	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:	1,314,068.69 ft	Latitude:	40° 11' 28.140 N
From:	Lat/Long	Easting:	3,280,680.96 ft	Longitude:	104° 29' 43.008 W
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.65 °

Well	Coors Energy 44-25D					
Well Position	+N-S	0.0 ft	Northing:	1,313,999.44 ft	Latitude:	40° 11' 27.456 N
	+E-W	0.0 ft	Easting:	3,280,678.95 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	6/2/2010	8.84	66.96	53,160

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	89.95	

Survey Program	Date 8/16/2011				
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
801.0	7,770.0	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
801.0	0.70	104.00	801.0	-1.2	4.7	4.7	0.09	0.09	0.00
896.0	0.60	97.30	896.0	-1.4	5.8	5.8	0.13	-0.11	-7.05
991.0	0.60	105.60	991.0	-1.6	6.8	6.8	0.09	0.00	8.74
1,086.0	1.40	82.80	1,086.0	-1.6	8.4	8.4	0.92	0.84	-24.00
1,181.0	1.30	77.20	1,180.9	-1.2	10.6	10.6	0.17	-0.11	-5.89
1,276.0	1.50	77.80	1,275.9	-0.7	12.9	12.9	0.21	0.21	0.63
1,371.0	2.20	79.50	1,370.8	-0.1	15.9	15.9	0.74	0.74	1.79
1,466.0	2.60	81.50	1,465.8	0.6	19.8	19.8	0.43	0.42	2.11
1,561.0	4.80	83.20	1,560.6	1.3	25.9	25.9	2.32	2.32	1.79
1,656.0	5.30	85.80	1,655.2	2.1	34.2	34.2	0.58	0.53	2.74
1,751.0	6.50	91.30	1,749.7	2.3	44.0	44.0	1.39	1.26	5.79

Company:	PETROLEUM DEVELOPMENT CORP Weld County CO	Local Co-ordinate Reference:	Well Coors Energy 44-25D
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 44-25D	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)
1,845.0	7.80	88.50	1,843.0	2.4	55.7	55.7	1.43	1.38	-2.98
1,940.0	8.70	84.70	1,937.0	3.2	69.3	69.3	1.11	0.95	-4.00
2,035.0	9.30	88.60	2,030.8	4.1	84.1	84.1	0.90	0.63	4.11
2,130.0	10.90	90.20	2,124.3	4.2	100.7	100.7	1.71	1.68	1.68
2,225.0	13.00	87.40	2,217.3	4.7	120.4	120.4	2.29	2.21	-2.95
2,320.0	13.80	90.00	2,309.7	5.2	142.4	142.4	1.05	0.84	2.74
2,415.0	13.60	88.90	2,402.0	5.4	164.9	164.9	0.35	-0.21	-1.16
2,510.0	14.50	82.60	2,494.1	7.1	187.9	187.9	1.87	0.95	-6.63
2,605.0	14.70	82.00	2,586.1	10.3	211.6	211.6	0.26	0.21	-0.63
2,700.0	14.10	89.60	2,678.1	12.1	235.1	235.1	2.09	-0.63	8.00
2,794.0	15.80	93.50	2,768.9	11.4	259.3	259.3	2.10	1.81	4.15
2,889.0	14.90	92.60	2,860.5	10.0	284.4	284.5	0.98	-0.95	-0.95
2,984.0	14.70	90.50	2,952.4	9.4	308.7	308.7	0.60	-0.21	-2.21
3,079.0	14.10	91.50	3,044.4	9.0	332.3	332.3	0.68	-0.63	1.05
3,174.0	13.80	88.80	3,136.6	8.9	355.2	355.2	0.75	-0.32	-2.84
3,268.0	14.00	90.20	3,227.8	9.1	377.8	377.8	0.42	0.21	1.49
3,363.0	13.70	84.30	3,320.1	10.2	400.5	400.5	1.52	-0.32	-6.21
3,458.0	14.10	86.00	3,412.3	12.1	423.2	423.2	0.60	0.42	1.79
3,553.0	13.90	90.20	3,504.5	12.9	446.2	446.2	1.09	-0.21	4.42
3,648.0	12.90	93.00	3,596.9	12.3	468.2	468.2	1.25	-1.05	2.95
3,743.0	12.70	90.80	3,689.5	11.6	489.2	489.2	0.55	-0.21	-2.32
3,837.0	13.80	88.60	3,781.0	11.7	510.7	510.8	1.29	1.17	-2.34
3,932.0	14.80	90.80	3,873.1	11.8	534.2	534.2	1.20	1.05	2.32
4,027.0	14.00	87.40	3,965.1	12.2	557.8	557.8	1.22	-0.84	-3.58
4,122.0	14.50	91.60	4,057.2	12.4	581.2	581.2	1.21	0.53	4.42
4,217.0	14.70	90.50	4,149.1	11.9	605.1	605.1	0.36	0.21	-1.16
4,312.0	12.70	92.60	4,241.4	11.3	627.6	627.6	2.17	-2.11	2.21
4,407.0	11.50	96.40	4,334.3	9.8	647.5	647.5	1.52	-1.26	4.00
4,502.0	10.00	98.70	4,427.6	7.5	665.0	665.0	1.64	-1.58	2.42
4,596.0	8.60	98.50	4,520.4	5.2	680.0	680.0	1.49	-1.49	-0.21
4,691.0	6.20	105.50	4,614.6	2.8	692.0	692.0	2.69	-2.53	7.37
4,786.0	5.10	114.50	4,709.1	-0.3	700.8	700.8	1.48	-1.16	9.47
4,881.0	4.40	130.40	4,803.8	-4.4	707.4	707.4	1.56	-0.74	16.74
4,976.0	2.20	108.30	4,898.6	-7.4	711.9	711.9	2.63	-2.32	-23.26
5,071.0	1.40	97.70	4,993.6	-8.1	714.8	714.8	0.91	-0.84	-11.16
5,077.5	1.38	96.82	5,000.1	-8.1	715.0	715.0	0.49	-0.36	-13.53
TARGET BHL 661°FSL, 658°FEL									
5,166.0	1.10	81.40	5,088.6	-8.1	716.9	716.9	0.49	-0.31	-17.42
5,261.0	1.10	63.80	5,183.6	-7.6	718.6	718.6	0.35	0.00	-18.53
5,355.0	1.00	46.70	5,277.5	-6.6	720.0	720.0	0.35	-0.11	-18.19
5,450.0	1.10	33.80	5,372.5	-5.3	721.1	721.1	0.27	0.11	-13.58
5,545.0	1.10	25.50	5,467.5	-3.7	722.0	722.0	0.17	0.00	-8.74
5,640.0	0.90	12.10	5,562.5	-2.1	722.5	722.5	0.32	-0.21	-14.11
5,735.0	0.70	5.60	5,657.5	-0.8	722.8	722.8	0.23	-0.21	-6.84
5,830.0	0.80	9.20	5,752.5	0.4	722.9	722.9	0.12	0.11	3.79
5,925.0	0.70	17.50	5,847.5	1.6	723.2	723.2	0.16	-0.11	8.74
6,020.0	0.60	25.00	5,942.5	2.6	723.6	723.6	0.14	-0.11	7.89
6,114.0	0.40	20.70	6,036.5	3.4	723.9	723.9	0.22	-0.21	-4.57
6,209.0	0.30	19.50	6,131.5	3.9	724.1	724.1	0.11	-0.11	-1.26
6,304.0	0.30	19.20	6,226.5	4.4	724.3	724.3	0.00	0.00	-0.32
6,399.0	0.30	38.80	6,321.5	4.8	724.5	724.5	0.11	0.00	20.63
6,495.0	0.30	77.00	6,417.5	5.1	724.9	724.9	0.20	0.00	39.79
6,577.5	0.30	85.17	6,500.0	5.1	725.3	725.3	0.05	0.00	9.90

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Survey									
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LEGAL BOX 400' X 400' 660'FSL, 658'FEL									
6,590.0	0.30	86.40	6,512.5	5.1	725.4	725.4	0.05	0.00	9.87
6,685.0	0.30	105.30	6,607.4	5.1	725.9	725.9	0.10	0.00	19.89
6,780.0	0.40	106.30	6,702.4	4.9	726.5	726.5	0.11	0.11	1.05
6,875.0	0.30	117.10	6,797.4	4.7	727.0	727.0	0.13	-0.11	11.37
6,970.0	0.30	124.20	6,892.4	4.5	727.4	727.4	0.04	0.00	7.47
7,065.0	0.10	133.60	6,987.4	4.3	727.7	727.7	0.21	-0.21	9.89
7,160.0	0.20	137.60	7,082.4	4.1	727.9	727.9	0.11	0.11	4.21
7,255.0	0.40	127.60	7,177.4	3.8	728.2	728.2	0.22	0.21	-10.53
7,350.0	0.20	152.60	7,272.4	3.4	728.6	728.6	0.25	-0.21	26.32
7,445.0	0.20	173.70	7,367.4	3.1	728.7	728.7	0.08	0.00	22.21
7,540.0	0.10	201.80	7,462.4	2.9	728.7	728.7	0.13	-0.11	29.58
7,635.0	0.20	206.30	7,557.4	2.6	728.5	728.5	0.11	0.11	4.74
7,730.0	0.20	165.00	7,652.4	2.3	728.5	728.5	0.15	0.00	-43.47
7,770.0	0.20	165.00	7,692.4	2.2	728.6	728.6	0.00	0.00	0.00

Checked By: _____	Approved By: _____	Date: _____
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