



Archer

PDC Energy, Inc.
Project: Weld Co., CO
Site: Sec.27-T5N-R64W
Well: Chestnut 27K-203
Wellbore: Wellbore #1
Design: Design #1
Lat: 40° 22' 16.212 N
Long: 104° 32' 36.960 W
Pad GL: 4619.00
KB: WELL @ 4634.00usft (Original Well Elev)

PROJECT DETAILS: Weld Co., CO

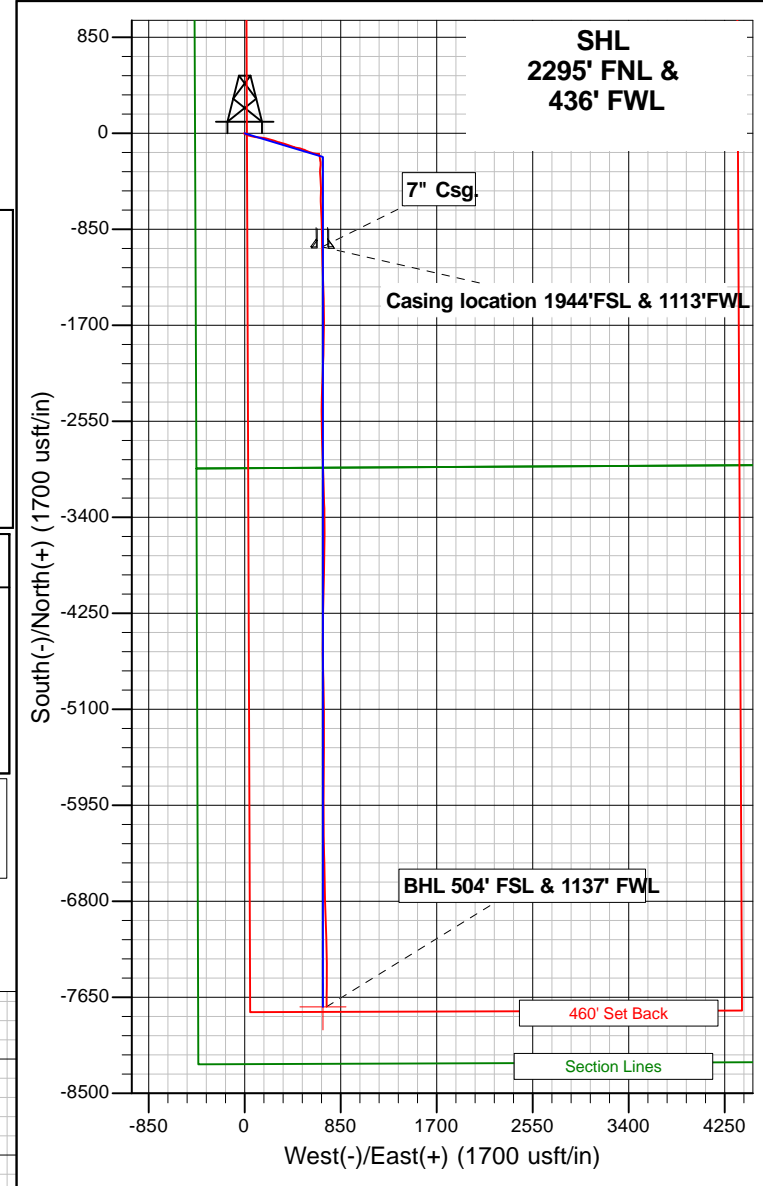
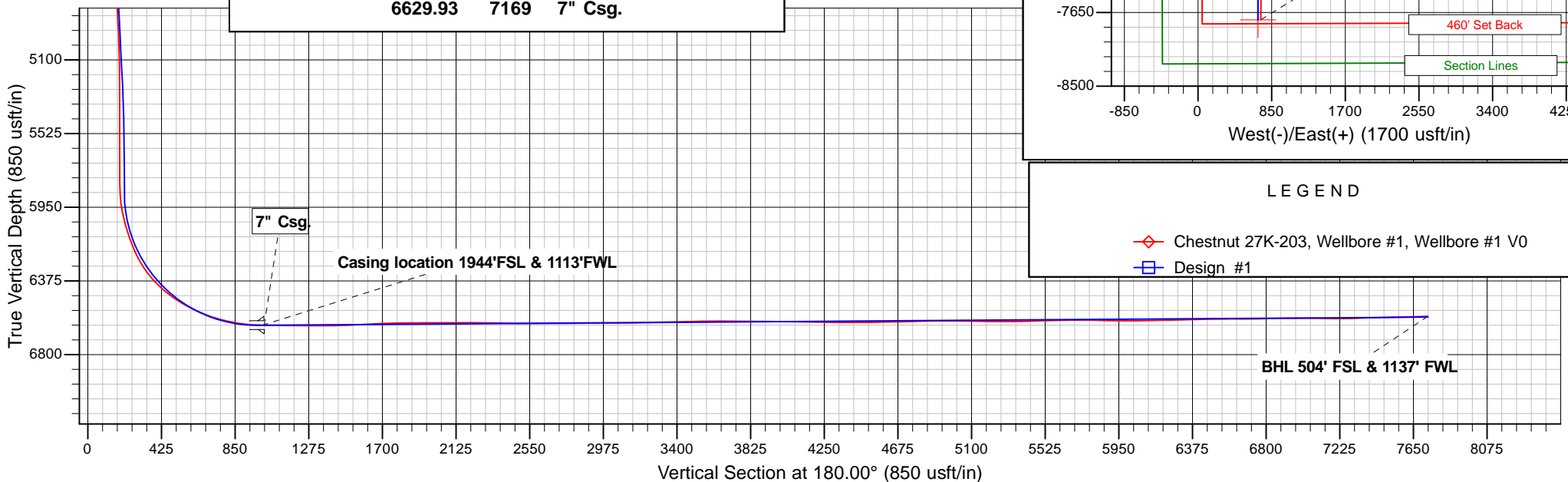
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: Colorado Northern Zone

System Datum: Mean Sea Level

Projected Bottom Hole Location
13900'MD 6578.74'TVD 7733.11'S & 726.61'E OF SHL
91.30 degree Incl @ 179.90 degree AZM

CASING DETAILS

TVD	MD	Name
6629.93	7169	7" Csg.





PDC Energy, Inc.

Weld Co., CO

Sec.27-T5N-R64W

Chestnut 27K-203

Wellbore #1

Survey: Survey #1

Standard Survey Report

16 November, 2014

Archer



Company:	PDC Energy, Inc.	Local Co-ordinate Reference:	Well Chestnut 27K-203
Project:	Weld Co., CO	TVD Reference:	WELL @ 4634.00usft (Original Well Elev)
Site:	Sec.27-T5N-R64W	MD Reference:	WELL @ 4634.00usft (Original Well Elev)
Well:	Chestnut 27K-203	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDMDBBW

Project	Weld Co., CO		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		

Site		Sec.27-T5N-R64W			
Site Position:		Northing:	1,379,023.488 usft	Latitude:	40° 22' 11.496 N
From:	Lat/Long	Easting:	3,267,026.653 usft	Longitude:	104° 32' 29.904 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.62 °

Well		Chestnut 27K-203				
Well Position	+N/-S	0.00 usft	Northing:	1,379,494.778 usft	Latitude:	40° 22' 16.212 N
	+E/-W	0.00 usft	Easting:	3,266,475.415 usft	Longitude:	104° 32' 36.960 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	4,619.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	09/09/14	8.31	66.95	52,800

Design	Wellbore #1				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)		+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00		0.00	0.00	180.00

Survey Program	Date	11/16/14		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
74.00	13,900.00	Survey #1 (Wellbore #1)	MWD	MWD v3:standard declination

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
First Archer Survey									
74.00	0.10	109.30	74.00	-0.02	0.06	0.02	0.14	0.14	0.00
168.00	0.30	277.30	168.00	-0.02	-0.11	0.02	0.42	0.21	178.72
259.00	0.60	239.40	259.00	-0.23	-0.75	0.23	0.45	0.33	-41.65
349.00	0.30	264.90	348.99	-0.49	-1.39	0.49	0.39	-0.33	28.33
441.00	0.50	288.30	440.99	-0.39	-2.01	0.39	0.28	0.22	25.43
532.00	0.10	165.60	531.99	-0.34	-2.37	0.34	0.62	-0.44	-134.84
721.00	0.60	278.70	720.99	-0.35	-3.31	0.35	0.34	0.26	59.84
814.00	0.70	265.70	813.98	-0.32	-4.36	0.32	0.19	0.11	-13.98
898.00	0.40	250.60	897.98	-0.45	-5.14	0.45	0.39	-0.36	-17.98
1,013.00	0.90	234.60	1,012.97	-1.11	-6.26	1.11	0.46	0.43	-13.91
1,106.00	3.20	113.20	1,105.92	-2.56	-4.47	2.56	4.03	2.47	-130.54

Company:	PDC Energy, Inc.	Local Co-ordinate Reference:	Well Chestnut 27K-203
Project:	Weld Co., CO	TVD Reference:	WELL @ 4634.00usft (Original Well Elev)
Site:	Sec.27-T5N-R64W	MD Reference:	WELL @ 4634.00usft (Original Well Elev)
Well:	Chestnut 27K-203	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDMDBBW

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
1,200.00	5.70	121.10	1,199.63	-6.00	1.94	6.00	2.73	2.66	8.40	
1,293.00	8.30	112.60	1,291.94	-10.97	12.10	10.97	3.00	2.80	-9.14	
1,387.00	10.30	110.80	1,384.70	-16.56	26.22	16.56	2.15	2.13	-1.91	
1,480.00	8.50	103.20	1,476.45	-21.08	40.68	21.08	2.35	-1.94	-8.17	
1,574.00	9.70	106.80	1,569.26	-24.96	55.03	24.96	1.41	1.28	3.83	
1,667.00	9.50	101.80	1,660.96	-28.79	70.04	28.79	0.92	-0.22	-5.38	
1,760.00	9.30	99.30	1,752.71	-31.57	84.97	31.57	0.49	-0.22	-2.69	
1,854.00	9.00	95.00	1,845.52	-33.44	99.79	33.44	0.79	-0.32	-4.57	
1,948.00	9.80	99.50	1,938.26	-35.40	115.00	35.40	1.16	0.85	4.79	
2,041.00	9.30	91.50	2,029.97	-36.91	130.32	36.91	1.52	-0.54	-8.60	
2,134.00	8.40	94.10	2,121.86	-37.59	144.61	37.59	1.06	-0.97	2.80	
2,228.00	9.80	100.90	2,214.68	-39.59	159.32	39.59	1.88	1.49	7.23	
2,322.00	9.30	96.70	2,307.38	-41.99	174.72	41.99	0.91	-0.53	-4.47	
2,415.00	10.00	104.60	2,399.07	-44.90	189.99	44.90	1.61	0.75	8.49	
2,509.00	9.30	99.50	2,491.74	-48.22	205.38	48.22	1.17	-0.74	-5.43	
2,602.00	10.00	110.00	2,583.43	-52.22	220.38	52.22	2.03	0.75	11.29	
2,696.00	10.60	107.60	2,675.91	-57.62	236.29	57.62	0.78	0.64	-2.55	
2,789.00	9.70	105.00	2,767.46	-62.24	252.02	62.24	1.09	-0.97	-2.80	
2,883.00	10.20	110.90	2,860.05	-67.26	267.44	67.26	1.21	0.53	6.28	
2,976.00	9.80	108.30	2,951.63	-72.68	282.65	72.68	0.65	-0.43	-2.80	
3,070.00	8.50	103.10	3,044.44	-76.77	297.01	76.77	1.64	-1.38	-5.53	
3,163.00	8.50	106.70	3,136.42	-80.30	310.29	80.30	0.57	0.00	3.87	
3,253.00	9.90	105.30	3,225.26	-84.25	324.12	84.25	1.58	1.56	-1.56	
3,343.00	10.10	109.00	3,313.89	-88.86	339.05	88.86	0.75	0.22	4.11	
3,433.00	9.40	105.30	3,402.59	-93.37	353.60	93.37	1.04	-0.78	-4.11	
3,523.00	10.20	109.40	3,491.28	-97.96	368.20	97.96	1.18	0.89	4.56	
3,613.00	10.90	110.20	3,579.76	-103.54	383.71	103.54	0.79	0.78	0.89	
3,703.00	11.20	109.30	3,668.09	-109.37	399.94	109.37	0.38	0.33	-1.00	
3,793.00	11.20	108.30	3,756.37	-115.00	416.49	115.00	0.22	0.00	-1.11	
3,883.00	10.40	106.80	3,844.78	-120.10	432.56	120.10	0.94	-0.89	-1.67	
3,973.00	9.00	104.00	3,933.49	-124.15	447.17	124.15	1.64	-1.56	-3.11	
4,063.00	10.10	104.30	4,022.24	-127.80	461.65	127.80	1.22	1.22	0.33	
4,153.00	9.40	98.60	4,110.94	-130.85	476.57	130.85	1.32	-0.78	-6.33	
4,243.00	9.60	105.30	4,199.71	-133.93	491.07	133.93	1.25	0.22	7.44	
4,333.00	10.20	107.70	4,288.37	-138.33	505.90	138.33	0.81	0.67	2.67	
4,423.00	8.90	107.40	4,377.12	-142.84	520.14	142.84	1.45	-1.44	-0.33	
4,513.00	8.80	113.90	4,466.05	-147.71	533.07	147.71	1.12	-0.11	7.22	
4,603.00	10.30	116.60	4,554.80	-154.10	546.56	154.10	1.74	1.67	3.00	
4,693.00	9.10	115.00	4,643.52	-160.71	560.21	160.71	1.37	-1.33	-1.78	
4,783.00	10.10	108.80	4,732.26	-166.26	574.13	166.26	1.60	1.11	-6.89	
4,873.00	10.50	105.20	4,820.81	-170.95	589.52	170.95	0.84	0.44	-4.00	
4,963.00	9.70	104.10	4,909.41	-174.95	604.78	174.95	0.91	-0.89	-1.22	
5,053.00	7.60	103.50	4,998.38	-178.19	617.93	178.19	2.34	-2.33	-0.67	
5,143.00	6.00	105.30	5,087.75	-180.82	628.25	180.82	1.79	-1.78	2.00	
5,233.00	4.60	100.00	5,177.36	-182.69	636.34	182.69	1.65	-1.56	-5.89	
5,323.00	3.40	89.40	5,267.14	-183.29	642.56	183.29	1.56	-1.33	-11.78	
5,413.00	2.40	94.80	5,357.02	-183.42	647.11	183.42	1.15	-1.11	6.00	
5,503.00	2.00	93.00	5,446.96	-183.66	650.56	183.66	0.45	-0.44	-2.00	
5,593.00	1.40	89.80	5,536.92	-183.73	653.23	183.73	0.67	-0.67	-3.56	
5,683.00	1.30	90.90	5,626.89	-183.75	655.35	183.75	0.11	-0.11	1.22	
5,773.00	1.00	66.10	5,716.88	-183.44	657.08	183.44	0.64	-0.33	-27.56	
5,863.00	1.30	144.50	5,806.86	-183.96	658.40	183.96	1.64	0.33	87.11	
5,908.00	1.60	143.30	5,851.85	-184.88	659.07	184.88	0.67	0.67	-2.67	
5,953.00	5.10	158.20	5,896.76	-187.24	660.19	187.24	7.95	7.78	33.11	

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Well:	Chestnut 27K-203	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDMDBBW

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,998.00	9.50	158.20	5,941.39	-192.55	662.31	192.55	9.78	9.78	0.00
6,043.00	12.00	173.30	5,985.60	-200.64	664.23	200.64	8.32	5.56	33.56
6,088.00	14.30	172.50	6,029.42	-210.80	665.51	210.80	5.13	5.11	-1.78
6,133.00	17.20	172.20	6,072.73	-222.90	667.13	222.90	6.45	6.44	-0.67
6,177.00	18.90	170.80	6,114.56	-236.39	669.16	236.39	3.99	3.86	-3.18
6,222.00	21.20	172.90	6,156.83	-251.66	671.33	251.66	5.35	5.11	4.67
6,267.00	23.90	180.00	6,198.39	-268.85	672.33	268.85	8.51	6.00	15.78
6,312.00	27.20	184.80	6,238.99	-288.22	671.47	288.22	8.65	7.33	10.67
6,357.00	31.50	183.90	6,278.21	-310.21	669.81	310.21	9.61	9.56	-2.00
6,402.00	35.70	180.50	6,315.68	-335.08	668.90	335.08	10.22	9.33	-7.56
6,447.00	39.80	177.80	6,351.26	-362.62	669.34	362.62	9.82	9.11	-6.00
6,492.00	43.20	175.20	6,384.96	-392.37	671.18	392.37	8.47	7.56	-5.78
6,537.00	48.00	176.10	6,416.44	-424.42	673.61	424.42	10.76	10.67	2.00
6,582.00	52.10	178.50	6,445.33	-458.87	675.21	458.87	9.99	9.11	5.33
6,627.00	56.20	180.80	6,471.68	-495.33	675.41	495.33	10.01	9.11	5.11
6,672.00	58.10	181.50	6,496.09	-533.12	674.65	533.12	4.42	4.22	1.56
6,717.00	60.60	180.10	6,519.03	-571.83	674.12	571.83	6.17	5.56	-3.11
6,763.00	64.20	178.60	6,540.34	-612.58	674.59	612.58	8.34	7.83	-3.26
6,808.00	67.40	177.90	6,558.78	-653.60	675.84	653.60	7.25	7.11	-1.56
6,853.00	70.30	176.90	6,575.02	-695.52	677.75	695.52	6.77	6.44	-2.22
6,898.00	73.00	177.10	6,589.18	-738.17	679.99	738.17	6.01	6.00	0.44
6,943.00	76.30	178.20	6,601.09	-781.52	681.76	781.52	7.70	7.33	2.44
6,988.00	79.10	179.00	6,610.68	-825.47	682.83	825.47	6.46	6.22	1.78
7,033.00	80.70	178.30	6,618.57	-869.76	683.88	869.76	3.87	3.56	-1.56
7,078.00	83.60	178.00	6,624.72	-914.31	685.32	914.31	6.48	6.44	-0.67
7,127.00	87.30	179.30	6,628.60	-963.14	686.47	963.14	8.00	7.55	2.65
7,224.00	90.00	179.00	6,630.89	-1,060.09	687.91	1,060.09	2.80	2.78	-0.31
7,314.00	89.50	178.40	6,631.28	-1,150.06	689.95	1,150.06	0.87	-0.56	-0.67
7,404.00	88.90	178.50	6,632.54	-1,240.02	692.38	1,240.02	0.68	-0.67	0.11
7,494.00	90.70	178.20	6,632.85	-1,329.98	694.97	1,329.98	2.03	2.00	-0.33
7,584.00	90.20	177.10	6,632.14	-1,419.90	698.66	1,419.90	1.34	-0.56	-1.22
7,674.00	92.70	179.10	6,629.87	-1,509.81	701.65	1,509.81	3.56	2.78	2.22
7,764.00	93.20	179.20	6,625.23	-1,599.68	702.98	1,599.68	0.57	0.56	0.11
7,854.00	92.60	180.70	6,620.68	-1,689.56	703.06	1,689.56	1.79	-0.67	1.67
7,944.00	91.00	181.40	6,617.85	-1,779.50	701.41	1,779.50	1.94	-1.78	0.78
8,037.00	90.00	180.90	6,617.04	-1,872.48	699.54	1,872.48	1.20	-1.08	-0.54
8,131.00	90.90	182.20	6,616.30	-1,966.44	697.00	1,966.44	1.68	0.96	1.38
8,224.00	90.40	182.20	6,615.25	-2,059.36	693.43	2,059.36	0.54	-0.54	0.00
8,318.00	89.90	181.90	6,615.00	-2,153.30	690.07	2,153.30	0.62	-0.53	-0.32
8,411.00	89.80	182.10	6,615.25	-2,246.24	686.82	2,246.24	0.24	-0.11	0.22
8,505.00	88.50	181.50	6,616.64	-2,340.18	683.87	2,340.18	1.52	-1.38	-0.64
8,598.00	89.00	181.50	6,618.67	-2,433.13	681.44	2,433.13	0.54	0.54	0.00
8,692.00	90.00	178.80	6,619.49	-2,527.12	681.19	2,527.12	3.06	1.06	-2.87
8,785.00	89.50	177.70	6,619.90	-2,620.07	684.03	2,620.07	1.30	-0.54	-1.18
8,879.00	90.70	179.10	6,619.73	-2,714.03	686.66	2,714.03	1.96	1.28	1.49
8,972.00	90.50	178.00	6,618.76	-2,806.99	689.01	2,806.99	1.20	-0.22	-1.18
9,066.00	90.40	178.30	6,618.02	-2,900.94	692.04	2,900.94	0.34	-0.11	0.32
9,159.00	90.50	178.30	6,617.29	-2,993.90	694.80	2,993.90	0.11	0.11	0.00
9,253.00	90.20	177.40	6,616.71	-3,087.83	698.33	3,087.83	1.01	-0.32	-0.96
9,346.00	91.20	178.50	6,615.58	-3,180.76	701.66	3,180.76	1.60	1.08	1.18
9,440.00	91.60	178.10	6,613.28	-3,274.69	704.44	3,274.69	0.60	0.43	-0.43
9,533.00	91.20	179.60	6,611.01	-3,367.64	706.31	3,367.64	1.67	-0.43	1.61
9,627.00	91.30	179.50	6,608.96	-3,461.61	707.05	3,461.61	0.15	0.11	-0.11
9,720.00	91.00	179.80	6,607.09	-3,554.59	707.61	3,554.59	0.46	-0.32	0.32

Company:	PDC Energy, Inc.	Local Co-ordinate Reference:	Well Chestnut 27K-203
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Site:	Sec.27-T5N-R64W	MD Reference:	WELL @ 4634.00usft (Original Well Elev)
Well:	Chestnut 27K-203	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDMDBBW

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,814.00	90.20	180.70	6,606.11	-3,648.59	707.20	3,648.59	1.28	-0.85	0.96
9,907.00	89.50	181.00	6,606.35	-3,741.57	705.83	3,741.57	0.82	-0.75	0.32
10,001.00	89.20	181.60	6,607.42	-3,835.54	703.69	3,835.54	0.71	-0.32	0.64
10,094.00	89.40	181.10	6,608.55	-3,928.51	701.50	3,928.51	0.58	0.22	-0.54
10,188.00	89.40	181.00	6,609.54	-4,022.49	699.78	4,022.49	0.11	0.00	-0.11
10,281.00	89.20	181.10	6,610.67	-4,115.47	698.08	4,115.47	0.24	-0.22	0.11
10,375.00	89.40	181.70	6,611.82	-4,209.43	695.78	4,209.43	0.67	0.21	0.64
10,468.00	88.40	181.10	6,613.61	-4,302.38	693.51	4,302.38	1.25	-1.08	-0.65
10,562.00	90.70	179.90	6,614.35	-4,396.37	692.69	4,396.37	2.76	2.45	-1.28
10,655.00	90.90	179.90	6,613.05	-4,489.36	692.85	4,489.36	0.22	0.22	0.00
10,749.00	90.80	179.20	6,611.65	-4,583.35	693.59	4,583.35	0.75	-0.11	-0.74
10,839.00	91.10	179.00	6,610.16	-4,673.32	695.00	4,673.32	0.40	0.33	-0.22
10,929.00	91.20	179.00	6,608.36	-4,763.29	696.57	4,763.29	0.11	0.11	0.00
11,019.00	91.00	179.30	6,606.63	-4,853.26	697.91	4,853.26	0.40	-0.22	0.33
11,109.00	90.60	178.60	6,605.37	-4,943.24	699.56	4,943.24	0.90	-0.44	-0.78
11,199.00	89.70	179.20	6,605.14	-5,033.22	701.28	5,033.22	1.20	-1.00	0.67
11,289.00	88.70	178.80	6,606.39	-5,123.20	702.85	5,123.20	1.20	-1.11	-0.44
11,379.00	88.00	178.80	6,608.98	-5,213.14	704.74	5,213.14	0.78	-0.78	0.00
11,469.00	91.30	180.80	6,609.53	-5,303.12	705.05	5,303.12	4.29	3.67	2.22
11,559.00	91.50	180.90	6,607.33	-5,393.08	703.72	5,393.08	0.25	0.22	0.11
11,649.00	91.50	180.90	6,604.98	-5,483.04	702.30	5,483.04	0.00	0.00	0.00
11,739.00	91.30	181.10	6,602.78	-5,573.00	700.73	5,573.00	0.31	-0.22	0.22
11,829.00	90.90	180.80	6,601.05	-5,662.97	699.24	5,662.97	0.56	-0.44	-0.33
11,919.00	89.70	180.40	6,600.58	-5,752.96	698.30	5,752.96	1.41	-1.33	-0.44
12,009.00	88.70	180.00	6,601.84	-5,842.95	697.98	5,842.95	1.20	-1.11	-0.44
12,098.00	88.70	179.50	6,603.86	-5,931.93	698.37	5,931.93	0.56	0.00	-0.56
12,188.00	90.00	179.30	6,604.88	-6,021.92	699.32	6,021.92	1.46	1.44	-0.22
12,278.00	91.60	179.00	6,603.62	-6,111.90	700.65	6,111.90	1.81	1.78	-0.33
12,368.00	91.30	179.40	6,601.34	-6,201.86	701.91	6,201.86	0.56	-0.33	0.44
12,458.00	91.20	179.20	6,599.38	-6,291.83	703.01	6,291.83	0.25	-0.11	-0.22
12,548.00	91.40	179.10	6,597.34	-6,381.80	704.34	6,381.80	0.25	0.22	-0.11
12,638.00	91.50	178.70	6,595.06	-6,471.75	706.07	6,471.75	0.46	0.11	-0.44
12,728.00	90.40	178.50	6,593.57	-6,561.71	708.27	6,561.71	1.24	-1.22	-0.22
12,818.00	89.30	178.50	6,593.80	-6,651.68	710.62	6,651.68	1.22	-1.22	0.00
12,908.00	91.40	179.60	6,593.25	-6,741.66	712.11	6,741.66	2.63	2.33	1.22
12,998.00	91.00	178.70	6,591.37	-6,831.63	713.45	6,831.63	1.09	-0.44	-1.00
13,088.00	90.80	178.20	6,589.96	-6,921.58	715.88	6,921.58	0.60	-0.22	-0.56
13,178.00	89.90	177.90	6,589.41	-7,011.53	718.95	7,011.53	1.05	-1.00	-0.33
13,268.00	88.50	178.20	6,590.66	-7,101.46	722.01	7,101.46	1.59	-1.56	0.33
13,358.00	89.10	177.50	6,592.55	-7,191.38	725.38	7,191.38	1.02	0.67	-0.78
13,448.00	92.00	179.30	6,591.68	-7,281.33	727.90	7,281.33	3.79	3.22	2.00
13,538.00	92.30	179.30	6,588.31	-7,371.26	728.99	7,371.26	0.33	0.33	0.00
13,628.00	91.60	181.00	6,585.24	-7,461.20	728.76	7,461.20	2.04	-0.78	1.89
13,718.00	91.50	180.60	6,582.81	-7,551.16	727.50	7,551.16	0.46	-0.11	-0.44
13,808.00	91.10	180.50	6,580.77	-7,641.13	726.64	7,641.13	0.46	-0.44	-0.11
Last Archer Survey									
13,844.00	91.30	179.90	6,580.01	-7,677.12	726.51	7,677.12	1.76	0.56	-1.67
PTB - Chestnut 27K-203 tgt									
13,900.00	91.30	179.90	6,578.74	-7,733.11	726.61	7,733.11	0.00	0.00	0.00

Company:	PDC Energy, Inc.	Local Co-ordinate Reference:	Well Chestnut 27K-203
Project:	Weld Co., CO	TVD Reference:	WELL @ 4634.00usft (Original Well Elev)
Site:	Sec.27-T5N-R64W	MD Reference:	WELL @ 4634.00usft (Original Well Elev)
Well:	Chestnut 27K-203	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDMDBBW

Survey Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
74.00	74.00	-0.02	0.06	First Archer Survey
13,844.00	6,580.01	-7,677.12	726.51	Last Archer Survey
13,900.00	6,578.74	-7,733.11	726.61	PTB

Checked By: _____	Approved By: _____	Date: _____
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