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5D Plan Report

Devon Energy

Field Name: *Lea Co, NM Nad 83 NMEZ*

Site Name: *Cotton Draw Unit 288H*

Well Name: *Cotton Draw Unit 288H*

Plan: *P1:V2*

23 August 2016



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Cotton Draw Unit 288H

Field Name: Lea Co, NM Nad 83 NMEZ	Map Units: US ft		Company Name: Devon Energy	
	Vertical Reference Datum (VRD): Mean Sea Level			
	Projected Coordinate System: NAD83 / New Mexico East (ftUS)			
	Comment:			
Site: Cotton Draw Unit 288H	Units: US ft	North Reference: Grid	Convergence Angle: 0.33	
	Position:	Northing: 414166.75 US ft	Latitude: 32° 8' 13.54"	
		Easting: 733887.43 US ft	Longitude: -103° 42' 40.53"	
	Elevation above MSL:3423.00 US ft			
Comment:				
Slot: Cotton Draw Unit 288H	Position (Relative to Site Centre)			
	+N/-S: 0.00 US ft	Northing: 414166.75 US ft	Latitude: 32°8'13.54"	
	+E/-W: 0.00 US ft	Easting: 733887.43 US ft	Longitude: -103°42'40.53"	
	Slot TVD Reference: Ground Elevation			
Elevation above MSL: 3423.00 US ft				
Comment:				
Well: Cotton Draw Unit 288H	Type:Main well	UWI:	Plan:P1:V2	
	File Number:	Comment:		
	Closure Distance:5162.05US ft	Closure Azimuth:359.84°		
	Vertical Section: Position of Origin (Relative to Slot centre)			
	+N/-S: 0.00 US ft	+E/-W: -0.00 US ft	Az: 359.84°	
	Magnetic Parameters:			
	Model: bggm2016	Field Strength:	Declination: 7.14°	Dip: 59.97°
	48029.9nT			Date: 31/Oct/2016

Drill floor: Plan: P1:V2			
Rig Height (Drill Floor): 23.00 US ft	Elevation above MSL: 3446.00 US ft	Inclination: 0.00°	Azimuth: 0.00°

Target set: Cotton Draw Unit 288H Comment:

Target Name:	Shape:	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (US ft)	Easting (US ft)	Comment
LP Tgt	Point	10448.90	465.02	-1.67	414631.77	733885.76	
PBHL 288H	Cuboid	10456.90	5162.03	-14.79	419328.78	733872.64	

Wellpath created using minimum curvature.

Tie Point:					
MD: 0.00 US ft	Inclination: 0.00°	Azimuth: 0.00°	TVD: 0.00 US ft	North Offset: 0.00 US ft	East Offset: - 0.00 US ft

5D Plan Report

Salient Points: (Relative to Slot centre)(TVD relative to Drill Floor)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	B.Rate (°/100US ft)	T.Rate (°/100US ft)	DLS (°/100US ft)	Comment
0.00	0.00	0.00	0.00	0.00	0.00	-0.00	0.00	0.00	0.00	SHL 1680 FEL, 175 FNL Sec 18
9876.04	0.00	0.00	9876.04	0.00	0.00	-0.00	0.00	0.00	0.00	KOP
10418.48	54.24	359.84	10341.00	238.16	238.16	-0.68	10.00	0.00	10.00	POE 1680 FEL, 63 FSL Sec 7
10775.05	89.90	359.84	10449.00	571.97	571.97	-1.64	10.00	0.00	10.00	LP
15365.14	89.90	359.84	10456.90	5162.05	5162.03	-14.79	0.00	0.00	0.00	PBHL 288H

Interpolated Points: (Relative to Slot centre)(TVD relative to Drill Floor)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (US ft)	Easting (US ft)	DLS (°/100US ft)	Comment
0.00	0.00	0.00	0.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	SHL 1680 FEL, 175 FNL Sec 18
100.00	0.00	0.00	100.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
200.00	0.00	0.00	200.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
400.00	0.00	0.00	400.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
500.00	0.00	0.00	500.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
600.00	0.00	0.00	600.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
700.00	0.00	0.00	700.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
800.00	0.00	0.00	800.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
900.00	0.00	0.00	900.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
1000.00	0.00	0.00	1000.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
1100.00	0.00	0.00	1100.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
1200.00	0.00	0.00	1200.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
1300.00	0.00	0.00	1300.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
1400.00	0.00	0.00	1400.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
1500.00	0.00	0.00	1500.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
1600.00	0.00	0.00	1600.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
1700.00	0.00	0.00	1700.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
1800.00	0.00	0.00	1800.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
1900.00	0.00	0.00	1900.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
2000.00	0.00	0.00	2000.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
2100.00	0.00	0.00	2100.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
2200.00	0.00	0.00	2200.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
2300.00	0.00	0.00	2300.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
2400.00	0.00	0.00	2400.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
2500.00	0.00	0.00	2500.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
2600.00	0.00	0.00	2600.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
2700.00	0.00	0.00	2700.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
2800.00	0.00	0.00	2800.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
2900.00	0.00	0.00	2900.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
3000.00	0.00	0.00	3000.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
3100.00	0.00	0.00	3100.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
3200.00	0.00	0.00	3200.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
3300.00	0.00	0.00	3300.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
3400.00	0.00	0.00	3400.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
3500.00	0.00	0.00	3500.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
3600.00	0.00	0.00	3600.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
3700.00	0.00	0.00	3700.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
3800.00	0.00	0.00	3800.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
3900.00	0.00	0.00	3900.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
4000.00	0.00	0.00	4000.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
4100.00	0.00	0.00	4100.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
4200.00	0.00	0.00	4200.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
4300.00	0.00	0.00	4300.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
4400.00	0.00	0.00	4400.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
4500.00	0.00	0.00	4500.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
4600.00	0.00	0.00	4600.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	

5D Plan Report

Interpolated Points: (Relative to Slot centre)(TVD relative to Drill Floor)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (US ft)	Easting (US ft)	DLS (°/100US ft)	Comment
4700.00	0.00	0.00	4700.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
4800.00	0.00	0.00	4800.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
4900.00	0.00	0.00	4900.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
5000.00	0.00	0.00	5000.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
5100.00	0.00	0.00	5100.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
5200.00	0.00	0.00	5200.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
5300.00	0.00	0.00	5300.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
5400.00	0.00	0.00	5400.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
5500.00	0.00	0.00	5500.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
5600.00	0.00	0.00	5600.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
5700.00	0.00	0.00	5700.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
5800.00	0.00	0.00	5800.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
5900.00	0.00	0.00	5900.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
6000.00	0.00	0.00	6000.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
6100.00	0.00	0.00	6100.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
6200.00	0.00	0.00	6200.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
6300.00	0.00	0.00	6300.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
6400.00	0.00	0.00	6400.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
6500.00	0.00	0.00	6500.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
6600.00	0.00	0.00	6600.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
6700.00	0.00	0.00	6700.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
6800.00	0.00	0.00	6800.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
6900.00	0.00	0.00	6900.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
7000.00	0.00	0.00	7000.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
7100.00	0.00	0.00	7100.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
7200.00	0.00	0.00	7200.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
7300.00	0.00	0.00	7300.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
7400.00	0.00	0.00	7400.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
7500.00	0.00	0.00	7500.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
7600.00	0.00	0.00	7600.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
7700.00	0.00	0.00	7700.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
7800.00	0.00	0.00	7800.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
7900.00	0.00	0.00	7900.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
8000.00	0.00	0.00	8000.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
8100.00	0.00	0.00	8100.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
8200.00	0.00	0.00	8200.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
8300.00	0.00	0.00	8300.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
8400.00	0.00	0.00	8400.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
8500.00	0.00	0.00	8500.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
8600.00	0.00	0.00	8600.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
8700.00	0.00	0.00	8700.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
8800.00	0.00	0.00	8800.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
8900.00	0.00	0.00	8900.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
9000.00	0.00	0.00	9000.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
9100.00	0.00	0.00	9100.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
9200.00	0.00	0.00	9200.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
9300.00	0.00	0.00	9300.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
9400.00	0.00	0.00	9400.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
9500.00	0.00	0.00	9500.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
9600.00	0.00	0.00	9600.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
9700.00	0.00	0.00	9700.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
9800.00	0.00	0.00	9800.00	0.00	0.00	-0.00	414166.75	733887.43	0.00	
9876.04	0.00	0.00	9876.04	0.00	0.00	-0.00	414166.75	733887.43	0.00	KOP
9900.00	2.40	359.84	9899.99	0.50	0.50	-0.00	414167.25	733887.43	10.00	
10000.00	12.40	359.84	9999.04	13.36	13.36	-0.04	414180.11	733887.39	10.00	
10100.00	22.40	359.84	10094.34	43.22	43.22	-0.12	414209.97	733887.31	10.00	
10200.00	32.40	359.84	10183.01	89.17	89.17	-0.26	414255.92	733887.17	10.00	
10300.00	42.40	359.84	10262.36	149.83	149.83	-0.43	414316.58	733887.00	10.00	
10400.00	52.40	359.84	10329.96	223.34	223.34	-0.64	414390.09	733886.79	10.00	

SD Plan Report

Interpolated Points: (Relative to Slot centre)(TVD relative to Drill Floor)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (US ft)	Easting (US ft)	DLS (%/100US ft)	Comment
10418.48	54.24	359.84	10341.00	238.16	238.16	-0.68	414404.91	733886.75	10.00	POE 1680 FEL, 63 FSL Sec 7
10500.00	62.40	359.84	10383.78	307.47	307.47	-0.88	414474.22	733886.55	10.00	
10600.00	72.40	359.84	10422.17	399.67	399.67	-1.15	414566.42	733886.28	10.00	
10700.00	82.40	359.84	10443.96	497.14	497.14	-1.42	414663.89	733886.01	10.00	
10775.05	89.90	359.84	10449.00	571.97	571.97	-1.64	414738.72	733885.79	10.00	LP
10800.00	89.90	359.84	10449.04	596.92	596.92	-1.71	414763.67	733885.72	0.00	
10900.00	89.90	359.84	10449.21	696.92	696.91	-2.00	414863.66	733885.43	0.00	
11000.00	89.90	359.84	10449.38	796.92	796.91	-2.28	414963.66	733885.15	0.00	
11100.00	89.90	359.84	10449.56	896.92	896.91	-2.57	415063.66	733884.86	0.00	
11200.00	89.90	359.84	10449.73	996.92	996.91	-2.86	415163.66	733884.57	0.00	
11300.00	89.90	359.84	10449.90	1096.92	1096.91	-3.14	415263.66	733884.29	0.00	
11400.00	89.90	359.84	10450.07	1196.92	1196.91	-3.43	415363.66	733884.00	0.00	
11500.00	89.90	359.84	10450.25	1296.92	1296.91	-3.72	415463.66	733883.71	0.00	
11600.00	89.90	359.84	10450.42	1396.92	1396.91	-4.00	415563.66	733883.43	0.00	
11700.00	89.90	359.84	10450.59	1496.92	1496.91	-4.29	415663.66	733883.14	0.00	
11800.00	89.90	359.84	10450.76	1596.92	1596.91	-4.58	415763.66	733882.85	0.00	
11900.00	89.90	359.84	10450.93	1696.92	1696.91	-4.86	415863.66	733882.57	0.00	
12000.00	89.90	359.84	10451.11	1796.92	1796.91	-5.15	415963.66	733882.28	0.00	
12100.00	89.90	359.84	10451.28	1896.92	1896.91	-5.43	416063.66	733882.00	0.00	
12200.00	89.90	359.84	10451.45	1996.92	1996.91	-5.72	416163.66	733881.71	0.00	
12300.00	89.90	359.84	10451.62	2096.92	2096.91	-6.01	416263.66	733881.42	0.00	
12400.00	89.90	359.84	10451.79	2196.92	2196.91	-6.29	416363.66	733881.14	0.00	
12500.00	89.90	359.84	10451.97	2296.92	2296.91	-6.58	416463.66	733880.85	0.00	
12600.00	89.90	359.84	10452.14	2396.92	2396.91	-6.87	416563.66	733880.56	0.00	
12700.00	89.90	359.84	10452.31	2496.91	2496.90	-7.15	416663.65	733880.28	0.00	
12800.00	89.90	359.84	10452.48	2596.91	2596.90	-7.44	416763.65	733879.99	0.00	
12900.00	89.90	359.84	10452.66	2696.91	2696.90	-7.73	416863.65	733879.70	0.00	
13000.00	89.90	359.84	10452.83	2796.91	2796.90	-8.01	416963.65	733879.42	0.00	
13100.00	89.90	359.84	10453.00	2896.91	2896.90	-8.30	417063.65	733879.13	0.00	
13200.00	89.90	359.84	10453.17	2996.91	2996.90	-8.59	417163.65	733878.84	0.00	
13300.00	89.90	359.84	10453.34	3096.91	3096.90	-8.87	417263.65	733878.56	0.00	
13400.00	89.90	359.84	10453.52	3196.91	3196.90	-9.16	417363.65	733878.27	0.00	
13500.00	89.90	359.84	10453.69	3296.91	3296.90	-9.45	417463.65	733877.98	0.00	
13600.00	89.90	359.84	10453.86	3396.91	3396.90	-9.73	417563.65	733877.70	0.00	
13700.00	89.90	359.84	10454.03	3496.91	3496.90	-10.02	417663.65	733877.41	0.00	
13800.00	89.90	359.84	10454.21	3596.91	3596.90	-10.31	417763.65	733877.12	0.00	
13900.00	89.90	359.84	10454.38	3696.91	3696.90	-10.59	417863.65	733876.84	0.00	
14000.00	89.90	359.84	10454.55	3796.91	3796.90	-10.88	417963.65	733876.55	0.00	
14100.00	89.90	359.84	10454.72	3896.91	3896.90	-11.17	418063.65	733876.26	0.00	
14200.00	89.90	359.84	10454.89	3996.91	3996.90	-11.45	418163.65	733875.98	0.00	
14300.00	89.90	359.84	10455.07	4096.91	4096.90	-11.74	418263.65	733875.69	0.00	
14400.00	89.90	359.84	10455.24	4196.91	4196.90	-12.02	418363.65	733875.41	0.00	
14500.00	89.90	359.84	10455.41	4296.91	4296.89	-12.31	418463.64	733875.12	0.00	
14600.00	89.90	359.84	10455.58	4396.91	4396.89	-12.60	418563.64	733874.83	0.00	
14700.00	89.90	359.84	10455.75	4496.91	4496.89	-12.88	418663.64	733874.55	0.00	
14800.00	89.90	359.84	10455.93	4596.91	4596.89	-13.17	418763.64	733874.26	0.00	
14900.00	89.90	359.84	10456.10	4696.91	4696.89	-13.46	418863.64	733873.97	0.00	
15000.00	89.90	359.84	10456.27	4796.91	4796.89	-13.74	418963.64	733873.69	0.00	
15100.00	89.90	359.84	10456.44	4896.91	4896.89	-14.03	419063.64	733873.40	0.00	
15200.00	89.90	359.84	10456.62	4996.91	4996.89	-14.32	419163.64	733873.11	0.00	
15300.00	89.90	359.84	10456.79	5096.91	5096.89	-14.60	419263.64	733872.83	0.00	
15365.14	89.90	359.84	10456.90	5162.05	5162.03	-14.79	419328.78	733872.64	0.00	PBHL 288H

Formation Points: (Relative to Slot centre)(TVD relative to Drill Floor)										
Name	MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (US ft)	Easting (US ft)		Comment
2ND BS Sand Lower	10418.48	54.24	359.84	10341.00	238.15	-0.68	414404.90	733886.75		