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HOBBS OCD

APR 27 2016

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5D Plan Report

Devon Energy

Field Name: *Lea Co, NM Nad 83 NMEZ*
Site Name: *Cotton Draw Unit 280H, 281H Pad*
Well Name: *Cotton Draw Unit 280H*
Plan: *P1:V1*

26 June 2015



APR 28 2016

Cotton Draw Unit 280H

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 Name Cotton Draw Unit 280H, 281H Pad	Units : US ft	North Reference : Grid	Convergence Angle : 0.32	
	Position	Northing : 414087.92 US ft	Latitude : 32° 8' 12.96"	
		Easting : 730370.42 US ft	Longitude : -103° 43' 21.44"	
	Elevation above Mean Sea Level: 3416.00 US ft			
Comment :				
Slot Name Cotton Draw Unit 280H	Position (Offsets relative to Site Centre)			
	+N / -S : 0.00 US ft		Northing : 414087.92 US ft	Latitude : 32° 8' 12.96"
	+E / -W : 0.00 US ft		Easting : 730370.42 US ft	Longitude : -103° 43' 21.44"
	Slot TVD Reference : Ground Elevation			
Elevation above Mean Sea Level : 3416.00 US ft				
Comment :				
Well Name Cotton Draw Unit 280H	Type : Main well		UWI :	Plan : P1:V1
	Rig Height <i>Kelly Bushing</i> : 25.00 US ft		Comment :	
	Relative to Mean Sea Level: 3441.00 US ft			
	Closure Distance : 5191.19 US ft		Closure Azimuth : 3.31365°	
	Vertical Section (Position of Origin Relative to Slot)			
	+N / -S : 0.00 US ft		+E / -W : 0.00 US ft	Az : 3.31°
	Magnetic Parameters			
	Model : BGGM	Field Strength : 48141.8nT	Dec : 7.31°	Dip : 60.02° Date : 15/Oct/2015

Target Set

Name : Cotton Draw Unit 280H **Number of Targets :** 1

Comment :

Target Name: PBHL 280H Shape: Cuboid	Position (Relative to Slot centre)			
	+N / -S : 5182.51 US ft		Northing : 419270.43 US ft	Latitude : 32° 9' 4.23"
	+E / -W : 300.06 US ft		Easting : 730670.48 US ft	Longitude : -103° 43' 17.61"
	TVD (Kelly Bushing) : 10406.00 US ft			
Orientation Azimuth : 0.55°		Inclination : 0.00°		
Dimensions Length : 9258.00 US ft		Breadth : 50.00 US ft		Height : 20.00 US ft

Well path created using minimum curvature

5D Plan Report

Salient Points (Relative to Slot centre, TVD relative to Kelly Bushing)											
MD (US.ft)	Inc (°)	Az (°)	TVD (US.ft)	N. Offset (US.ft)	E. Offset (US.ft)	VS (US.ft)	DLS (°/100 US.ft)	B. Rate (°/100 US.ft)	T. Rate (°/100 US.ft)	T. Face (°)	Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9901.84	0.00	0.00	9901.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	KOP
10485.17	70.00	33.00	10350.51	263.48	171.11	272.92	12.00	12.00	0.00	33.00	Build/Turn
10797.98	90.00	0.55	10406.00	553.59	255.70	567.43	12.00	6.39	-10.37	298.28	LP
15427.12	90.00	0.55	10406.00	5182.51	300.06	5191.19	0.00	0.00	0.00	0.00	PBHL 280H

Interpolated Points (Relative to Slot centre, TVD relative to Kelly Bushing)											
MD (US.ft)	Inc (°)	Az (°)	TVD (US.ft)	N. Offset (US.ft)	E. Offset (US.ft)	VS (US.ft)	DLS (°/100 US.ft)	Northing (US.ft)	Easting (US.ft)		Comment
9900.00	0.00	0.00	9900.00	0.00	0.00	0.00	0.00	414087.92	730370.42		
9901.84	0.00	0.00	9901.84	0.00	0.00	0.00	0.00	414087.92	730370.42		KOP
10000.00	11.78	33.00	9999.31	8.43	5.48	8.73	12.00	414096.35	730375.90		
10100.00	23.78	33.00	10094.36	33.99	22.08	35.21	12.00	414121.91	730392.50		
10200.00	35.78	33.00	10181.00	75.57	49.08	78.28	12.00	414163.49	730419.50		
10300.00	47.78	33.00	10255.43	131.35	85.30	136.05	12.00	414219.27	730455.72		
10400.00	59.78	33.00	10314.41	198.88	129.16	206.01	12.00	414286.80	730499.58		
10485.17	70.00	33.00	10350.51	263.48	171.11	272.92	12.00	414351.40	730541.53		Build/Turn
10500.00	70.85	31.34	10355.48	275.30	178.54	285.15	12.00	414363.22	730548.96		
10600.00	76.93	20.56	10383.29	361.56	220.37	373.68	12.00	414449.48	730590.79		
10700.00	83.43	10.32	10400.38	456.38	246.48	469.85	12.00	414544.30	730616.90		
10797.98	90.00	0.55	10406.00	553.59	255.70	567.43	12.00	414641.51	730626.12		LP
10800.00	90.00	0.55	10406.00	555.61	255.72	569.44	0.00	414643.53	730626.14		
10900.00	90.00	0.55	10406.00	655.60	256.68	669.33	0.00	414743.52	730627.10		
11000.00	90.00	0.55	10406.00	755.60	257.63	769.21	0.00	414843.52	730628.05		
11100.00	90.00	0.55	10406.00	855.59	258.59	869.10	0.00	414943.51	730629.01		
11200.00	90.00	0.55	10406.00	955.59	259.55	968.98	0.00	415043.51	730629.97		
11300.00	90.00	0.55	10406.00	1055.58	260.51	1068.86	0.00	415143.50	730630.93		
11400.00	90.00	0.55	10406.00	1155.58	261.47	1168.75	0.00	415243.50	730631.89		
11500.00	90.00	0.55	10406.00	1255.57	262.43	1268.63	0.00	415343.49	730632.85		
11600.00	90.00	0.55	10406.00	1355.57	263.38	1368.52	0.00	415443.49	730633.80		
11700.00	90.00	0.55	10406.00	1455.57	264.34	1468.40	0.00	415543.49	730634.76		
11800.00	90.00	0.55	10406.00	1555.56	265.30	1568.28	0.00	415643.48	730635.72		
11900.00	90.00	0.55	10406.00	1655.56	266.26	1668.17	0.00	415743.48	730636.68		
12000.00	90.00	0.55	10406.00	1755.55	267.22	1768.05	0.00	415843.47	730637.64		
12100.00	90.00	0.55	10406.00	1855.55	268.18	1867.94	0.00	415943.47	730638.60		
12200.00	90.00	0.55	10406.00	1955.54	269.13	1967.82	0.00	416043.46	730639.55		
12300.00	90.00	0.55	10406.00	2055.54	270.09	2067.70	0.00	416143.46	730640.51		
12400.00	90.00	0.55	10406.00	2155.53	271.05	2167.59	0.00	416243.45	730641.47		
12500.00	90.00	0.55	10406.00	2255.53	272.01	2267.47	0.00	416343.45	730642.43		
12600.00	90.00	0.55	10406.00	2355.52	272.97	2367.36	0.00	416443.44	730643.39		
12700.00	90.00	0.55	10406.00	2455.52	273.93	2467.24	0.00	416543.44	730644.35		
12800.00	90.00	0.55	10406.00	2555.52	274.88	2567.12	0.00	416643.44	730645.30		
12900.00	90.00	0.55	10406.00	2655.51	275.84	2667.01	0.00	416743.43	730646.26		
13000.00	90.00	0.55	10406.00	2755.51	276.80	2766.89	0.00	416843.43	730647.22		
13100.00	90.00	0.55	10406.00	2855.50	277.76	2866.77	0.00	416943.42	730648.18		
13200.00	90.00	0.55	10406.00	2955.50	278.72	2966.66	0.00	417043.42	730649.14		
13300.00	90.00	0.55	10406.00	3055.49	279.68	3066.54	0.00	417143.41	730650.10		
13400.00	90.00	0.55	10406.00	3155.49	280.63	3166.43	0.00	417243.41	730651.05		
13500.00	90.00	0.55	10406.00	3255.48	281.59	3266.31	0.00	417343.40	730652.01		
13600.00	90.00	0.55	10406.00	3355.48	282.55	3366.19	0.00	417443.40	730652.97		
13700.00	90.00	0.55	10406.00	3455.47	283.51	3466.08	0.00	417543.39	730653.93		
13800.00	90.00	0.55	10406.00	3555.47	284.47	3565.96	0.00	417643.39	730654.89		
13900.00	90.00	0.55	10406.00	3655.46	285.43	3665.85	0.00	417743.38	730655.85		
14000.00	90.00	0.55	10406.00	3755.46	286.38	3765.73	0.00	417843.38	730656.80		
14100.00	90.00	0.55	10406.00	3855.46	287.34	3865.61	0.00	417943.38	730657.76		
14200.00	90.00	0.55	10406.00	3955.45	288.30	3965.50	0.00	418043.37	730658.72		
14300.00	90.00	0.55	10406.00	4055.45	289.26	4065.38	0.00	418143.37	730659.68		
14400.00	90.00	0.55	10406.00	4155.44	290.22	4165.27	0.00	418243.36	730660.64		
14500.00	90.00	0.55	10406.00	4255.44	291.18	4265.15	0.00	418343.36	730661.60		

5D Plan Report

Interpolated Points (Relative to Slot centre, TVD relative to Kelly Bushing)										
MD (US ft)	Inc (°)	Azi (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	VS (US ft)	DLS (°/100 US ft)	Northing (US ft)	Easting (US ft)	Comment
14600.00	90.00	0.55	10406.00	4355.43	292.13	4365.03	0.00	418443.35	730662.55	
14700.00	90.00	0.55	10406.00	4455.43	293.09	4464.92	0.00	418543.35	730663.51	
14800.00	90.00	0.55	10406.00	4555.42	294.05	4564.80	0.00	418643.34	730664.47	
14900.00	90.00	0.55	10406.00	4655.42	295.01	4664.69	0.00	418743.34	730665.43	
15000.00	90.00	0.55	10406.00	4755.41	295.97	4764.57	0.00	418843.33	730666.39	
15100.00	90.00	0.55	10406.00	4855.41	296.93	4864.45	0.00	418943.33	730667.35	
15200.00	90.00	0.55	10406.00	4955.40	297.88	4964.34	0.00	419043.32	730668.30	
15300.00	90.00	0.55	10406.00	5055.40	298.84	5064.22	0.00	419143.32	730669.26	
15400.00	90.00	0.55	10406.00	5155.40	299.80	5164.11	0.00	419243.32	730670.22	
15427.12	90.00	0.55	10406.00	5182.51	300.06	5191.19	0.00	419270.43	730670.48	PBHL 280H