

APR 29 2016

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5D Plan Report

Devon Energy

Field Name: *Lea Co, NM Nad 83 NMEZ*
Site Name: *Green Wave 20-29 Fed 76H,77H,78H Pad*
Well Name: *Green Wave 20-29 Fed 77H*
Plan: *P1:V1*

12 May 2015



Weatherford®

MAY 03 2016

Green Wave 20-29 Fed 77H

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 Green Wave 20- 29 Fed 76H, 77H, 78H Pad	Units : US ft North Reference : Grid Convergence Angle : 0.45 Position Northing : 375210.52 US ft Latitude : 32° 1' 43.35" Easting : 803702.93 US ft Longitude : -103° 29' 12.16" Elevation above Mean Sea Level: 3349.00 US ft Comment :	
Slot Name Green Wave 20- 29 Fed 77H	Position (Offsets relative to Site Centre) +N / -S : 0.25 US ft Northing : 375210.77 US ft Latitude : 32° 1' 43.35" +E / -W : 49.95 US ft Easting : 803752.88 US ft Longitude : -103° 29' 11.58" Slot TVD Reference : Ground Elevation Elevation above Mean Sea Level : 3349.00 US ft Comment :	
Well Name Green Wave 20- 29 Fed 77H	Type : Main well - Rig Height Kelly Bushing : 30.00 US ft Relative to Mean Sea Level: 3379.00 US ft UWI : Comment : Closure Distance : 7509.4 US ft Closure Azimuth : 179.684° Vertical Section (Position of Origin Relative to Slot) +N / -S : 0.00 US ft +E / -W : 0.00 US ft Az : 179.49° Magnetic Parameters Model : BGGM Field Strength : 48030.7nT Dec : 7.18° Dip : 59.90° Date : 30/Oct/2015	

Target Set

Name : Green Wave 20-29 **Number of Targets :** 2

Fed 77H

Comment :

Target Name: Lp Tgt Shape: Cuboid	Position (Relative to Slot centre) +N / -S : 40.66 US ft Northing : 375251.43 US ft Latitude : 32° 1' 43.75" +E / -W : -25.44 US ft Easting : 803727.44 US ft Longitude : -103° 29' 11.87" TVD (Kelly Bushing) : 12629.00 US ft Orientation Azimuth : 0.00° Inclination : 0.00° Dimensions Length : 20.00 US ft Breadth : 20.00 US ft Height : 20.00 US ft
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SD Plan Report

Target Name: PBHL 77H Shape: Cuboid	Position (Relative to Slot centre)		
	+N / -S : 7509.29US ft	Northing : 367701.48 US ft	Latitude : 32°0'29.04"
	+E / -W : 41.45 US ft	Easting : 803794.33US ft	Longitude : -103°29'11.78"
	TVD (Kelly Bushing) : 12605.00 US ft		
	Orientation Azimuth : 0.00°	Inclination : 0.00°	
	Dimensions Length : 20.00 US ft	Breadth : 20.00 US ft	Height : 20.00 US ft

Well path created using minimum curvature

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	
12104.00	0.00	0.00	12104.00	0.00	0.00	-0.00	0.00	0.00	0.00	0.00	KOP
12285.82	20.00	189.00	12282.15	-31.03	-4.91	30.98	11.00	11.00	0.00	189.00	Build/Turn
12926.40	90.18	179.49	12626.69	-523.15	-21.29	522.94	11.00	10.96	-1.49	349.90	LP
19912.86	90.18	179.49	12605.00	-7509.29	41.45	7509.36	0.00	0.00	0.00	0.00	PBHL 77H

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
12100.00	0.00	0.00	12100.00	0.00	0.00	-0.00	0.00	375210.77	803752.88	
12104.00	0.00	0.00	12104.00	0.00	0.00	-0.00	0.00	375210.77	803752.88	KOP
12200.00	10.56	189.00	12199.46	-8.71	-1.38	8.70	11.00	375202.06	803751.50	
12285.82	20.00	189.00	12282.15	-31.03	-4.91	30.98	11.00	375179.74	803747.97	Build/Turn
12300.00	21.54	188.25	12295.41	-36.00	-5.67	35.95	11.00	375174.77	803747.21	
12400.00	32.44	184.92	12384.39	-81.02	-10.62	80.92	11.00	375129.75	803742.26	
12500.00	43.38	183.14	12463.17	-142.22	-14.82	142.08	11.00	375068.55	803738.06	
12600.00	54.35	181.97	12528.85	-217.35	-18.10	217.18	11.00	374993.42	803734.78	
12700.00	65.32	181.08	12579.03	-303.64	-20.36	303.45	11.00	374907.13	803732.52	
12800.00	76.30	180.34	12611.85	-397.94	-21.50	397.73	11.00	374812.83	803731.38	
12900.00	87.28	179.66	12626.11	-496.76	-21.49	496.55	11.00	374714.01	803731.39	
12926.40	90.18	179.49	12626.69	-523.15	-21.29	522.94	11.00	374687.62	803731.59	LP
13000.00	90.18	179.49	12626.46	-596.75	-20.63	596.54	0.00	374614.02	803732.25	
13100.00	90.18	179.49	12626.15	-696.74	-19.73	696.54	0.00	374514.03	803733.15	
13200.00	90.18	179.49	12625.84	-796.74	-18.84	796.54	0.00	374414.03	803734.04	
13300.00	90.18	179.49	12625.53	-896.73	-17.94	896.54	0.00	374314.04	803734.94	
13400.00	90.18	179.49	12625.22	-996.73	-17.04	996.54	0.00	374214.04	803735.84	
13500.00	90.18	179.49	12624.91	-1096.72	-16.14	1096.54	0.00	374114.05	803736.74	
13600.00	90.18	179.49	12624.60	-1196.72	-15.24	1196.54	0.00	374014.05	803737.64	
13700.00	90.18	179.49	12624.29	-1296.71	-14.35	1296.53	0.00	373914.06	803738.53	
13800.00	90.18	179.49	12623.98	-1396.71	-13.45	1396.53	0.00	373814.06	803739.43	
13900.00	90.18	179.49	12623.67	-1496.70	-12.55	1496.53	0.00	373714.07	803740.33	
14000.00	90.18	179.49	12623.36	-1596.70	-11.65	1596.53	0.00	373614.07	803741.23	
14100.00	90.18	179.49	12623.05	-1696.70	-10.75	1696.53	0.00	373514.07	803742.13	
14200.00	90.18	179.49	12622.74	-1796.69	-9.86	1796.53	0.00	373414.08	803743.02	
14300.00	90.18	179.49	12622.43	-1896.69	-8.96	1896.53	0.00	373314.08	803743.92	
14400.00	90.18	179.49	12622.12	-1996.68	-8.06	1996.53	0.00	373214.09	803744.82	
14500.00	90.18	179.49	12621.81	-2096.68	-7.16	2096.53	0.00	373114.09	803745.72	
14600.00	90.18	179.49	12621.50	-2196.67	-6.26	2196.53	0.00	373014.10	803746.62	
14700.00	90.18	179.49	12621.19	-2296.67	-5.36	2296.53	0.00	372914.10	803747.52	
14800.00	90.18	179.49	12620.87	-2396.66	-4.47	2396.53	0.00	372814.11	803748.41	
14900.00	90.18	179.49	12620.56	-2496.66	-3.57	2496.53	0.00	372714.11	803749.31	
15000.00	90.18	179.49	12620.25	-2596.65	-2.67	2596.53	0.00	372614.12	803750.21	
15100.00	90.18	179.49	12619.94	-2696.65	-1.77	2696.53	0.00	372514.12	803751.11	
15200.00	90.18	179.49	12619.63	-2796.65	-0.87	2796.53	0.00	372414.12	803752.01	

5D Plan Report

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)	DES (%/100 US ft)	Northing (US ft)	Easting (US ft)	Comment
15300.00	90.18	179.49	12619.32	-2896.64	0.02	2896.53	0.00	372314.13	803752.90	
15400.00	90.18	179.49	12619.01	-2996.64	0.92	2996.53	0.00	372214.13	803753.80	
15500.00	90.18	179.49	12618.70	-3096.63	1.82	3096.53	0.00	372114.14	803754.70	
15600.00	90.18	179.49	12618.39	-3196.63	2.72	3196.53	0.00	372014.14	803755.60	
15700.00	90.18	179.49	12618.08	-3296.62	3.62	3296.52	0.00	371914.15	803756.50	
15800.00	90.18	179.49	12617.77	-3396.62	4.51	3396.52	0.00	371814.15	803757.39	
15900.00	90.18	179.49	12617.46	-3496.61	5.41	3496.52	0.00	371714.16	803758.29	
16000.00	90.18	179.49	12617.15	-3596.61	6.31	3596.52	0.00	371614.16	803759.19	
16100.00	90.18	179.49	12616.84	-3696.61	7.21	3696.52	0.00	371514.16	803760.09	
16200.00	90.18	179.49	12616.53	-3796.60	8.11	3796.52	0.00	371414.17	803760.99	
16300.00	90.18	179.49	12616.22	-3896.60	9.00	3896.52	0.00	371314.17	803761.88	
16400.00	90.18	179.49	12615.91	-3996.59	9.90	3996.52	0.00	371214.18	803762.78	
16500.00	90.18	179.49	12615.60	-4096.59	10.80	4096.52	0.00	371114.18	803763.68	
16600.00	90.18	179.49	12615.29	-4196.58	11.70	4196.52	0.00	371014.19	803764.58	
16700.00	90.18	179.49	12614.98	-4296.58	12.60	4296.52	0.00	370914.19	803765.48	
16800.00	90.18	179.49	12614.66	-4396.57	13.49	4396.52	0.00	370814.20	803766.37	
16900.00	90.18	179.49	12614.35	-4496.57	14.39	4496.52	0.00	370714.20	803767.27	
17000.00	90.18	179.49	12614.04	-4596.56	15.29	4596.52	0.00	370614.21	803768.17	
17100.00	90.18	179.49	12613.73	-4696.56	16.19	4696.52	0.00	370514.21	803769.07	
17200.00	90.18	179.49	12613.42	-4796.56	17.09	4796.52	0.00	370414.21	803769.97	
17300.00	90.18	179.49	12613.11	-4896.55	17.98	4896.52	0.00	370314.22	803770.86	
17400.00	90.18	179.49	12612.80	-4996.55	18.88	4996.52	0.00	370214.22	803771.76	
17500.00	90.18	179.49	12612.49	-5096.54	19.78	5096.52	0.00	370114.23	803772.66	
17600.00	90.18	179.49	12612.18	-5196.54	20.68	5196.52	0.00	370014.23	803773.56	
17700.00	90.18	179.49	12611.87	-5296.53	21.58	5296.52	0.00	369914.24	803774.46	
17800.00	90.18	179.49	12611.56	-5396.53	22.48	5396.51	0.00	369814.24	803775.36	
17900.00	90.18	179.49	12611.25	-5496.52	23.37	5496.51	0.00	369714.25	803776.25	
18000.00	90.18	179.49	12610.94	-5596.52	24.27	5596.51	0.00	369614.25	803777.15	
18100.00	90.18	179.49	12610.63	-5696.51	25.17	5696.51	0.00	369514.26	803778.05	
18200.00	90.18	179.49	12610.32	-5796.51	26.07	5796.51	0.00	369414.26	803778.95	
18300.00	90.18	179.49	12610.01	-5896.51	26.97	5896.51	0.00	369314.26	803779.85	
18400.00	90.18	179.49	12609.70	-5996.50	27.86	5996.51	0.00	369214.27	803780.74	
18500.00	90.18	179.49	12609.39	-6096.50	28.76	6096.51	0.00	369114.27	803781.64	
18600.00	90.18	179.49	12609.08	-6196.49	29.66	6196.51	0.00	369014.28	803782.54	
18700.00	90.18	179.49	12608.77	-6296.49	30.56	6296.51	0.00	368914.28	803783.44	
18800.00	90.18	179.49	12608.46	-6396.48	31.46	6396.51	0.00	368814.29	803784.34	
18900.00	90.18	179.49	12608.14	-6496.48	32.35	6496.51	0.00	368714.29	803785.23	
19000.00	90.18	179.49	12607.83	-6596.47	33.25	6596.51	0.00	368614.30	803786.13	
19100.00	90.18	179.49	12607.52	-6696.47	34.15	6696.51	0.00	368514.30	803787.03	
19200.00	90.18	179.49	12607.21	-6796.47	35.05	6796.51	0.00	368414.30	803787.93	
19300.00	90.18	179.49	12606.90	-6896.46	35.95	6896.51	0.00	368314.31	803788.83	
19400.00	90.18	179.49	12606.59	-6996.46	36.84	6996.51	0.00	368214.31	803789.72	
19500.00	90.18	179.49	12606.28	-7096.45	37.74	7096.51	0.00	368114.32	803790.62	
19600.00	90.18	179.49	12605.97	-7196.45	38.64	7196.51	0.00	368014.32	803791.52	
19700.00	90.18	179.49	12605.66	-7296.44	39.54	7296.51	0.00	367914.33	803792.42	
19800.00	90.18	179.49	12605.35	-7396.44	40.44	7396.51	0.00	367814.33	803793.32	
19900.00	90.18	179.49	12605.04	-7496.43	41.33	7496.50	0.00	367714.34	803794.21	
19912.86	90.18	179.49	12605.00	-7509.29	41.45	7509.36	0.00	367701.48	803794.33	PBHL 77H