

5D Plan Report

HOPPO¹ OCD

APR 29 2016

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5D Plan Report

Devon Energy

Field Name: *Lea Co, NM Nad 83 NMEZ*
Site Name: *Green Wave 20-17 Fed 28H*
Well Name: *Green Wave 20-17 Fed 28H Pilot*
Plan: *P1:V1*

16 April 2015



Weatherford®

Green Wave 20-17 Fed 28H Pilot

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- 17 Fed 28H	Units : US ft	North Reference : Grid	Convergence Angle : 0.45	
	Position	Northing : 375305.15 US ft	Latitude : 32° 1' 44.23"	
		Easting : 804412.02 US ft	Longitude : -103° 29' 3.91"	
Elevation above Mean Sea Level:3343.00 US ft				
Comment :				
Slot Name Green Wave 20- 17 Fed 28H	Position (Offsets relative to Site Centre)			
	+N / -S : 0.00 US ft	Northing : 375305.15 US ft	Latitude : 32°1'44.23"	
	+E / -W : 0.00 US ft	Easting : 804412.02 US ft	Longitude : -103°29'3.91"	
Slot TVD Reference : Ground Elevation				
Elevation above Mean Sea Level : 3343.00 US ft				
Comment :				
Well Name Green Wave 20- 17 Fed 28H Pilot	Type : Main well	UWI :	Plan : P1:V1	
	Rig Height <i>Drill Floor</i> : 25.00 US ft	Comment :		
	Relative to Mean Sea Level: 3368.00 US ft			
Closure Distance : 0 US ft		Closure Azimuth : 0°		
Vertical Section (Position of Origin Relative to Slot)				
+N / -S : 0.00 US ft		+E / -W : 0.00 US ft	Az :359.13°	
Magnetic Parameters				
Model : BGGM	Field Strength :	Dec : 7.21°	Dip : 59.91°	Date :
	48067.3nT			15/Jul/2015

Well path created using minimum curvature

Salient Points (Relative to Slot centre, TVD relative to Drill Floor)											
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	
10780.00	0.00	0.00	10780.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	PBHL 28H Pilot

Interpolated Points (Relative to Slot centre, TVD relative to Drill Floor)											
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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	375305.15	804412.02		
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	375305.15	804412.02		
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	375305.15	804412.02		
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	375305.15	804412.02		
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	375305.15	804412.02		
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	375305.15	804412.02		
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	375305.15	804412.02		
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	375305.15	804412.02		
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	375305.15	804412.02		
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	375305.15	804412.02		

5D Plan Report

Interpolated Points (Relative to Slot centre, TVD relative to Drill Floor)										
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
1000.00	0.00	0.00	1000.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
1100.00	0.00	0.00	1100.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
1200.00	0.00	0.00	1200.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
1300.00	0.00	0.00	1300.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
1400.00	0.00	0.00	1400.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
1500.00	0.00	0.00	1500.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
1600.00	0.00	0.00	1600.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
1700.00	0.00	0.00	1700.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
1800.00	0.00	0.00	1800.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
1900.00	0.00	0.00	1900.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
2100.00	0.00	0.00	2100.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
2200.00	0.00	0.00	2200.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
2300.00	0.00	0.00	2300.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
2400.00	0.00	0.00	2400.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
2500.00	0.00	0.00	2500.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
2600.00	0.00	0.00	2600.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
2700.00	0.00	0.00	2700.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
2800.00	0.00	0.00	2800.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
2900.00	0.00	0.00	2900.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
3000.00	0.00	0.00	3000.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
3100.00	0.00	0.00	3100.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
3200.00	0.00	0.00	3200.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
3300.00	0.00	0.00	3300.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
3400.00	0.00	0.00	3400.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
3500.00	0.00	0.00	3500.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
3600.00	0.00	0.00	3600.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
3700.00	0.00	0.00	3700.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
3800.00	0.00	0.00	3800.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
3900.00	0.00	0.00	3900.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
4000.00	0.00	0.00	4000.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
4100.00	0.00	0.00	4100.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
4200.00	0.00	0.00	4200.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
4300.00	0.00	0.00	4300.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
4400.00	0.00	0.00	4400.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
4500.00	0.00	0.00	4500.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
4600.00	0.00	0.00	4600.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
4700.00	0.00	0.00	4700.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
4800.00	0.00	0.00	4800.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
4900.00	0.00	0.00	4900.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
5000.00	0.00	0.00	5000.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
5100.00	0.00	0.00	5100.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
5200.00	0.00	0.00	5200.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
5300.00	0.00	0.00	5300.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
5400.00	0.00	0.00	5400.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
5500.00	0.00	0.00	5500.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
5600.00	0.00	0.00	5600.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
5700.00	0.00	0.00	5700.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
5800.00	0.00	0.00	5800.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
5900.00	0.00	0.00	5900.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
6000.00	0.00	0.00	6000.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
6100.00	0.00	0.00	6100.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
6200.00	0.00	0.00	6200.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
6300.00	0.00	0.00	6300.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
6400.00	0.00	0.00	6400.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
6500.00	0.00	0.00	6500.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
6600.00	0.00	0.00	6600.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
6700.00	0.00	0.00	6700.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
6800.00	0.00	0.00	6800.00	0.00	0.00	0.00	0.00	375305.15	804412.02	

5D Plan Report

Interpolated Points (Relative to Slot centre, TVD relative to Drill Floor)										
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
6900.00	0.00	0.00	6900.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
7000.00	0.00	0.00	7000.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
7100.00	0.00	0.00	7100.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
7200.00	0.00	0.00	7200.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
7300.00	0.00	0.00	7300.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
7400.00	0.00	0.00	7400.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
7500.00	0.00	0.00	7500.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
7600.00	0.00	0.00	7600.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
7700.00	0.00	0.00	7700.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
7800.00	0.00	0.00	7800.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
7900.00	0.00	0.00	7900.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
8000.00	0.00	0.00	8000.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
8100.00	0.00	0.00	8100.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
8200.00	0.00	0.00	8200.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
8300.00	0.00	0.00	8300.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
8400.00	0.00	0.00	8400.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
8500.00	0.00	0.00	8500.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
8600.00	0.00	0.00	8600.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
8700.00	0.00	0.00	8700.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
8800.00	0.00	0.00	8800.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
8900.00	0.00	0.00	8900.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
9000.00	0.00	0.00	9000.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
9100.00	0.00	0.00	9100.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
9200.00	0.00	0.00	9200.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
9300.00	0.00	0.00	9300.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
9400.00	0.00	0.00	9400.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
9500.00	0.00	0.00	9500.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
9600.00	0.00	0.00	9600.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
9700.00	0.00	0.00	9700.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
9800.00	0.00	0.00	9800.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
9900.00	0.00	0.00	9900.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
10000.00	0.00	0.00	10000.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
10100.00	0.00	0.00	10100.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
10200.00	0.00	0.00	10200.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
10300.00	0.00	0.00	10300.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
10400.00	0.00	0.00	10400.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
10500.00	0.00	0.00	10500.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
10600.00	0.00	0.00	10600.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
10700.00	0.00	0.00	10700.00	0.00	0.00	0.00	0.00	375305.15	804412.02	
10780.00	0.00	0.00	10780.00	0.00	0.00	0.00	0.00	375305.15	804412.02	PBHL 28H Pilot



Green Wave 20-17 Fed 28H
Lea Co, NM



Plan Data for Green Wave 20-17 Fed 28H

Plan Point Information:									
DogLeg Severity Unit: °/100.00ft									
Position offsets from Slot centre									
MD	Inc	AZ	TVD	+N/-S	+E/-W	Northing	Easting	VSec	DLS
(USft)	(°)	(°)	(USft)	(USft)	(USft)	(USft)	(USft)	(USft)	(DLSU)
0.00	0.00	0.00	0.00	0.00	0.00	375305.15	804412.02	0.00	0.00
9361.00	0.00	0.00	9361.00	0.00	0.00	375305.15	804412.02	0.00	0.00
9633.73	30.00	353.26	9621.44	69.30	-8.19	375374.45	804403.83	69.42	11.00
10184.15	90.36	359.30	9882.82	524.30	-29.72	375829.45	804382.30	524.69	11.00
17240.20	90.36	359.30	9838.00	7579.68	-115.40	382884.83	804296.62	7580.56	0.00

Plan Data for Green Wave 20-17 Fed 28H

Slot: Green Wave 20-17 Fed 28H
Position:
Offset is from Site centre
+N/-S: 0.00USft Northing: 375305.15USft Latitude: 32°1'44.2"
+E/-W: 0.00USft Easting: 804412.02USft Longitude: -103°29'3.9"
Elevation Above VRD: 3343.00USft

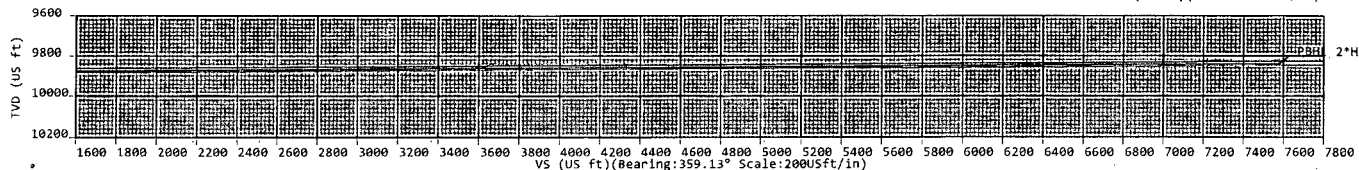
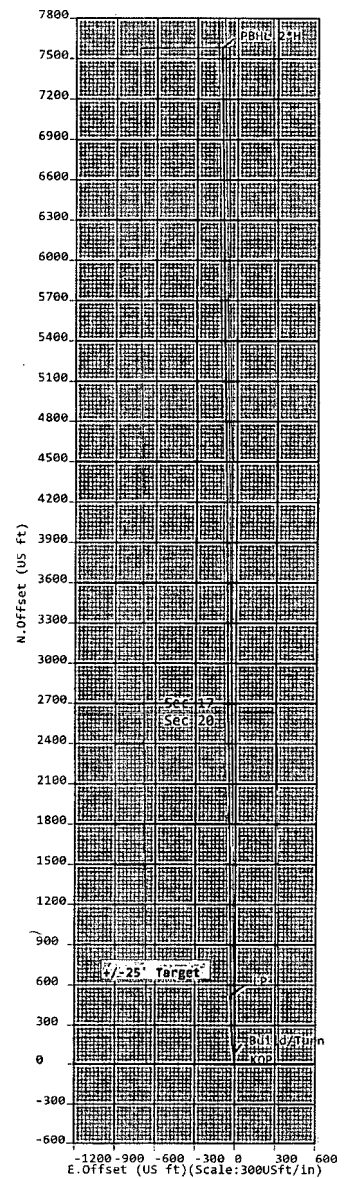
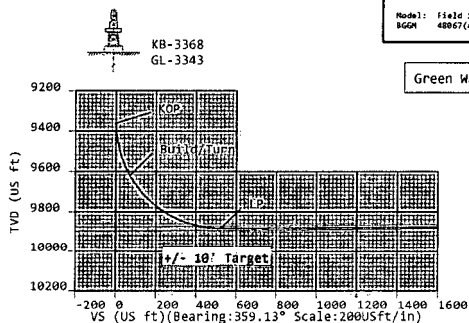
Plan Data for Green Wave 20-17 Fed 28H

Target Set Information:
Name: Green Wave 20-17 Fed 28H
Position offsets from Slot centre
Name TVD +N/-S +E/-W Northing Easting Shape Comment
(USft) (USft) (USft) (USft) (USft)
LP Tgt 9883.00 499.94 -29.29 375805.09 804382.73 Cuboid
PBHL 28H 9838.00 7579.68 -115.40 382884.83 804296.62 Cuboid

Plan Data for Green Wave 20-17 Fed 28H

Well: Green Wave 20-17 Fed 28H
Type: Main-Well
File Number:
Plan Folder: P1 Plan: P1.V1
Vertical Section: Position offset of origin from Slot centre:
+N/-S: 0.00USft Azimuth: 359.13°
+E/-W: 0.00USft
Magnetic Parameters:
Model: Field Strength: Declination: Dip: Date:
BGM 48067(nf) 7.21° 50.91° 2015-07-15

Green Wave 20-17 Fed 28H



Sign Off: Russell Joyner