

HOBBS COO

APR 25 2016

RECEIVED

DEVON ENERGY

Lea County, NM (NAD-83)

Green Wave 20-17 Fed

41H

OH

Plan: Plan #1

Standard Planning Report

08 July, 2015

APR 26 2016

LEAM Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 41H
Company:	DEVON ENERGY	TVD Reference:	3356.7' GL + 25' RKB @ 3381.70usft
Project:	Lea County, NM (NAD-83)	MD Reference:	3356.7' GL + 25' RKB @ 3381.70usft
Site:	Green Wave 20-17 Fed	North Reference:	Grid
Well:	41H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Project	Lea County, NM (NAD-83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Green Wave 20-17 Fed		
Site Position:		Northing:	375,027.44 usft
From:	Map	Easting:	799,785.56 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 1' 41.837 N
		Longitude:	103° 29' 57.677 W
		Grid Convergence:	0.44 °

Well	41H		
Well Position	+N-S	-100.02 usft	Northing:
	+E-W	0.85 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	3,381.70 usft
		Latitude:	32° 1' 40.847 N
		Longitude:	103° 29' 57.676 W
		Ground Level:	3,356.70 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
			(°)
	BGGM2015	7/8/2015	7.21
			Dip Angle
			(°)
			59.97
			Field Strength
			(nT)
			48,107

Design	Plan #1		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth:
			0.00
Vertical Section:	Depth From (TVD)	+N-S	+E-W
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
			Direction
			(°)
			359.86

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9,924.13	0.00	0.00	9,924.13	0.00	0.00	0.00	0.00	0.00	0.00	
10,744.07	90.19	359.86	10,445.00	522.63	-1.24	11.00	11.00	-0.02	359.86	
18,144.72	90.19	359.86	10,420.00	7,923.21	-18.85	0.00	0.00	0.00	0.00	PBHL (GW20-17F 411)

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Site:	Green Wave 20-17 Fed	North Reference:	Grid
Well:	41H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned 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
SHL (GW20-17F 41H)									
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
733.00	0.00	0.00	733.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler									
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,163.00	0.00	0.00	1,163.00	0.00	0.00	0.00	0.00	0.00	0.00
Salado									
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00

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Wellbore:	OH		
Design:	Plan #1		

Planned 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)
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00
5,289.00	0.00	0.00	5,289.00	0.00	0.00	0.00	0.00	0.00	0.00
Lamar									
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00
5,324.00	0.00	0.00	5,324.00	0.00	0.00	0.00	0.00	0.00	0.00
Bell Canyon									
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00	0.00	0.00
5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.00	0.00	0.00
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00	0.00	0.00
5,900.00	0.00	0.00	5,900.00	0.00	0.00	0.00	0.00	0.00	0.00
6,000.00	0.00	0.00	6,000.00	0.00	0.00	0.00	0.00	0.00	0.00
6,100.00	0.00	0.00	6,100.00	0.00	0.00	0.00	0.00	0.00	0.00
6,200.00	0.00	0.00	6,200.00	0.00	0.00	0.00	0.00	0.00	0.00
6,300.00	0.00	0.00	6,300.00	0.00	0.00	0.00	0.00	0.00	0.00
6,400.00	0.00	0.00	6,400.00	0.00	0.00	0.00	0.00	0.00	0.00
6,405.00	0.00	0.00	6,405.00	0.00	0.00	0.00	0.00	0.00	0.00
Cherry Canyon									
6,500.00	0.00	0.00	6,500.00	0.00	0.00	0.00	0.00	0.00	0.00
6,600.00	0.00	0.00	6,600.00	0.00	0.00	0.00	0.00	0.00	0.00
6,700.00	0.00	0.00	6,700.00	0.00	0.00	0.00	0.00	0.00	0.00
6,800.00	0.00	0.00	6,800.00	0.00	0.00	0.00	0.00	0.00	0.00
6,900.00	0.00	0.00	6,900.00	0.00	0.00	0.00	0.00	0.00	0.00
7,000.00	0.00	0.00	7,000.00	0.00	0.00	0.00	0.00	0.00	0.00
7,100.00	0.00	0.00	7,100.00	0.00	0.00	0.00	0.00	0.00	0.00
7,200.00	0.00	0.00	7,200.00	0.00	0.00	0.00	0.00	0.00	0.00
7,300.00	0.00	0.00	7,300.00	0.00	0.00	0.00	0.00	0.00	0.00
7,400.00	0.00	0.00	7,400.00	0.00	0.00	0.00	0.00	0.00	0.00
7,500.00	0.00	0.00	7,500.00	0.00	0.00	0.00	0.00	0.00	0.00
7,600.00	0.00	0.00	7,600.00	0.00	0.00	0.00	0.00	0.00	0.00
7,700.00	0.00	0.00	7,700.00	0.00	0.00	0.00	0.00	0.00	0.00
7,800.00	0.00	0.00	7,800.00	0.00	0.00	0.00	0.00	0.00	0.00
7,900.00	0.00	0.00	7,900.00	0.00	0.00	0.00	0.00	0.00	0.00
7,953.00	0.00	0.00	7,953.00	0.00	0.00	0.00	0.00	0.00	0.00
Brushy Canyon									
8,000.00	0.00	0.00	8,000.00	0.00	0.00	0.00	0.00	0.00	0.00
8,100.00	0.00	0.00	8,100.00	0.00	0.00	0.00	0.00	0.00	0.00
8,200.00	0.00	0.00	8,200.00	0.00	0.00	0.00	0.00	0.00	0.00
8,300.00	0.00	0.00	8,300.00	0.00	0.00	0.00	0.00	0.00	0.00
8,400.00	0.00	0.00	8,400.00	0.00	0.00	0.00	0.00	0.00	0.00
8,500.00	0.00	0.00	8,500.00	0.00	0.00	0.00	0.00	0.00	0.00
8,600.00	0.00	0.00	8,600.00	0.00	0.00	0.00	0.00	0.00	0.00
8,700.00	0.00	0.00	8,700.00	0.00	0.00	0.00	0.00	0.00	0.00
8,800.00	0.00	0.00	8,800.00	0.00	0.00	0.00	0.00	0.00	0.00
8,900.00	0.00	0.00	8,900.00	0.00	0.00	0.00	0.00	0.00	0.00
9,000.00	0.00	0.00	9,000.00	0.00	0.00	0.00	0.00	0.00	0.00
9,100.00	0.00	0.00	9,100.00	0.00	0.00	0.00	0.00	0.00	0.00
9,200.00	0.00	0.00	9,200.00	0.00	0.00	0.00	0.00	0.00	0.00
9,300.00	0.00	0.00	9,300.00	0.00	0.00	0.00	0.00	0.00	0.00

LEAM Drilling Systems LLC

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Wellbore:	OH		
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Planned 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)
9,374.00	0.00	0.00	9,374.00	0.00	0.00	0.00	0.00	0.00	0.00
Lwr Brushy									
9,400.00	0.00	0.00	9,400.00	0.00	0.00	0.00	0.00	0.00	0.00
9,500.00	0.00	0.00	9,500.00	0.00	0.00	0.00	0.00	0.00	0.00
9,600.00	0.00	0.00	9,600.00	0.00	0.00	0.00	0.00	0.00	0.00
9,620.00	0.00	0.00	9,620.00	0.00	0.00	0.00	0.00	0.00	0.00
Bone Spring									
9,640.00	0.00	0.00	9,640.00	0.00	0.00	0.00	0.00	0.00	0.00
Upr Leonard									
9,700.00	0.00	0.00	9,700.00	0.00	0.00	0.00	0.00	0.00	0.00
9,800.00	0.00	0.00	9,800.00	0.00	0.00	0.00	0.00	0.00	0.00
9,900.00	0.00	0.00	9,900.00	0.00	0.00	0.00	0.00	0.00	0.00
9,920.00	0.00	0.00	9,920.00	0.00	0.00	0.00	0.00	0.00	0.00
Upr Leonard Base									
9,924.13	0.00	0.00	9,924.13	0.00	0.00	0.00	0.00	0.00	0.00
KOP 11° DLS									
9,950.00	2.85	359.86	9,949.99	0.64	0.00	0.64	11.00	11.00	0.00
10,000.00	8.35	359.86	9,999.73	5.52	-0.01	5.52	11.00	11.00	0.00
10,050.00	13.85	359.86	10,048.78	15.13	-0.04	15.13	11.00	11.00	0.00
10,100.00	19.35	359.86	10,096.68	29.41	-0.07	29.41	11.00	11.00	0.00
10,150.00	24.85	359.86	10,142.99	48.21	-0.11	48.21	11.00	11.00	0.00
10,176.79	27.79	359.86	10,167.00	60.09	-0.14	60.09	11.00	11.00	0.00
Mid Leonard									
10,200.00	30.35	359.86	10,187.28	71.36	-0.17	71.36	11.00	11.00	0.00
10,250.00	35.85	359.86	10,229.15	98.65	-0.23	98.65	11.00	11.00	0.00
10,300.00	41.35	359.86	10,268.22	129.83	-0.31	129.83	11.00	11.00	0.00
10,350.00	46.85	359.86	10,304.11	164.61	-0.39	164.61	11.00	11.00	0.00
10,400.00	52.35	359.86	10,336.51	202.67	-0.48	202.67	11.00	11.00	0.00
10,450.00	57.85	359.86	10,365.11	243.66	-0.58	243.66	11.00	11.00	0.00
10,500.00	63.35	359.86	10,389.65	287.20	-0.68	287.20	11.00	11.00	0.00
10,550.00	68.85	359.86	10,409.90	332.90	-0.79	332.90	11.00	11.00	0.00
10,600.00	74.35	359.86	10,425.68	380.32	-0.90	380.32	11.00	11.00	0.00
10,650.00	79.85	359.86	10,436.84	429.04	-1.02	429.04	11.00	11.00	0.00
10,700.00	85.35	359.86	10,443.28	478.60	-1.14	478.61	11.00	11.00	0.00
10,744.07	90.19	359.86	10,445.00	522.63	-1.24	522.63	11.00	11.00	0.00
LP									
10,800.00	90.19	359.86	10,444.81	578.56	-1.38	578.56	0.00	0.00	0.00
10,900.00	90.19	359.86	10,444.47	678.56	-1.61	678.56	0.00	0.00	0.00
11,000.00	90.19	359.86	10,444.13	778.56	-1.85	778.56	0.00	0.00	0.00
11,100.00	90.19	359.86	10,443.80	878.55	-2.09	878.56	0.00	0.00	0.00
11,200.00	90.19	359.86	10,443.46	978.55	-2.33	978.56	0.00	0.00	0.00
11,300.00	90.19	359.86	10,443.12	1,078.55	-2.57	1,078.56	0.00	0.00	0.00
11,400.00	90.19	359.86	10,442.78	1,178.55	-2.80	1,178.56	0.00	0.00	0.00
11,500.00	90.19	359.86	10,442.44	1,278.55	-3.04	1,278.55	0.00	0.00	0.00
11,600.00	90.19	359.86	10,442.11	1,378.55	-3.28	1,378.55	0.00	0.00	0.00
11,700.00	90.19	359.86	10,441.77	1,478.55	-3.52	1,478.55	0.00	0.00	0.00
11,800.00	90.19	359.86	10,441.43	1,578.55	-3.76	1,578.55	0.00	0.00	0.00
11,900.00	90.19	359.86	10,441.09	1,678.55	-3.99	1,678.55	0.00	0.00	0.00
12,000.00	90.19	359.86	10,440.76	1,778.55	-4.23	1,778.55	0.00	0.00	0.00
12,100.00	90.19	359.86	10,440.42	1,878.55	-4.47	1,878.55	0.00	0.00	0.00
12,200.00	90.19	359.86	10,440.08	1,978.55	-4.71	1,978.55	0.00	0.00	0.00
12,300.00	90.19	359.86	10,439.74	2,078.54	-4.95	2,078.55	0.00	0.00	0.00
12,400.00	90.19	359.86	10,439.40	2,178.54	-5.18	2,178.55	0.00	0.00	0.00

LEAM Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 41H
Company:	DEVON ENERGY	TVD Reference:	3356.7' GL + 25' RKB @ 3381.70usft
Project:	Lea County, NM (NAD-83)	MD Reference:	3356.7' GL + 25' RKB @ 3381.70usft
Site:	Green Wave 20-17 Fed	North Reference:	Grid
Well:	41H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned 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)
12,500.00	90.19	359.86	10,439.07	2,278.54	-5.42	2,278.55	0.00	0.00	0.00
12,600.00	90.19	359.86	10,438.73	2,378.54	-5.66	2,378.55	0.00	0.00	0.00
12,700.00	90.19	359.86	10,438.39	2,478.54	-5.90	2,478.55	0.00	0.00	0.00
12,800.00	90.19	359.86	10,438.05	2,578.54	-6.13	2,578.55	0.00	0.00	0.00
12,900.00	90.19	359.86	10,437.72	2,678.54	-6.37	2,678.55	0.00	0.00	0.00
13,000.00	90.19	359.86	10,437.38	2,778.54	-6.61	2,778.55	0.00	0.00	0.00
13,100.00	90.19	359.86	10,437.04	2,878.54	-6.85	2,878.55	0.00	0.00	0.00
13,200.00	90.19	359.86	10,436.70	2,978.54	-7.09	2,978.54	0.00	0.00	0.00
13,300.00	90.19	359.86	10,436.36	3,078.54	-7.32	3,078.54	0.00	0.00	0.00
13,400.00	90.19	359.86	10,436.03	3,178.53	-7.56	3,178.54	0.00	0.00	0.00
13,500.00	90.19	359.86	10,435.69	3,278.53	-7.80	3,278.54	0.00	0.00	0.00
13,600.00	90.19	359.86	10,435.35	3,378.53	-8.04	3,378.54	0.00	0.00	0.00
13,700.00	90.19	359.86	10,435.01	3,478.53	-8.28	3,478.54	0.00	0.00	0.00
13,800.00	90.19	359.86	10,434.68	3,578.53	-8.51	3,578.54	0.00	0.00	0.00
13,900.00	90.19	359.86	10,434.34	3,678.53	-8.75	3,678.54	0.00	0.00	0.00
14,000.00	90.19	359.86	10,434.00	3,778.53	-8.99	3,778.54	0.00	0.00	0.00
14,100.00	90.19	359.86	10,433.66	3,878.53	-9.23	3,878.54	0.00	0.00	0.00
14,200.00	90.19	359.86	10,433.32	3,978.53	-9.47	3,978.54	0.00	0.00	0.00
14,300.00	90.19	359.86	10,432.99	4,078.53	-9.70	4,078.54	0.00	0.00	0.00
14,400.00	90.19	359.86	10,432.65	4,178.53	-9.94	4,178.54	0.00	0.00	0.00
14,500.00	90.19	359.86	10,432.31	4,278.53	-10.18	4,278.54	0.00	0.00	0.00
14,600.00	90.19	359.86	10,431.97	4,378.52	-10.42	4,378.54	0.00	0.00	0.00
14,700.00	90.19	359.86	10,431.64	4,478.52	-10.65	4,478.54	0.00	0.00	0.00
14,800.00	90.19	359.86	10,431.30	4,578.52	-10.89	4,578.54	0.00	0.00	0.00
14,900.00	90.19	359.86	10,430.96	4,678.52	-11.13	4,678.54	0.00	0.00	0.00
15,000.00	90.19	359.86	10,430.62	4,778.52	-11.37	4,778.53	0.00	0.00	0.00
15,100.00	90.19	359.86	10,430.28	4,878.52	-11.61	4,878.53	0.00	0.00	0.00
15,200.00	90.19	359.86	10,429.95	4,978.52	-11.84	4,978.53	0.00	0.00	0.00
15,300.00	90.19	359.86	10,429.61	5,078.52	-12.08	5,078.53	0.00	0.00	0.00
15,400.00	90.19	359.86	10,429.27	5,178.52	-12.32	5,178.53	0.00	0.00	0.00
15,500.00	90.19	359.86	10,428.93	5,278.52	-12.56	5,278.53	0.00	0.00	0.00
15,600.00	90.19	359.86	10,428.60	5,378.52	-12.80	5,378.53	0.00	0.00	0.00
15,700.00	90.19	359.86	10,428.26	5,478.52	-13.03	5,478.53	0.00	0.00	0.00
15,800.00	90.19	359.86	10,427.92	5,578.51	-13.27	5,578.53	0.00	0.00	0.00
15,900.00	90.19	359.86	10,427.58	5,678.51	-13.51	5,678.53	0.00	0.00	0.00
16,000.00	90.19	359.86	10,427.24	5,778.51	-13.75	5,778.53	0.00	0.00	0.00
16,100.00	90.19	359.86	10,426.91	5,878.51	-13.99	5,878.53	0.00	0.00	0.00
16,200.00	90.19	359.86	10,426.57	5,978.51	-14.22	5,978.53	0.00	0.00	0.00
16,300.00	90.19	359.86	10,426.23	6,078.51	-14.46	6,078.53	0.00	0.00	0.00
16,400.00	90.19	359.86	10,425.89	6,178.51	-14.70	6,178.53	0.00	0.00	0.00
16,500.00	90.19	359.86	10,425.56	6,278.51	-14.94	6,278.53	0.00	0.00	0.00
16,600.00	90.19	359.86	10,425.22	6,378.51	-15.18	6,378.53	0.00	0.00	0.00
16,700.00	90.19	359.86	10,424.88	6,478.51	-15.41	6,478.53	0.00	0.00	0.00
16,800.00	90.19	359.86	10,424.54	6,578.51	-15.65	6,578.52	0.00	0.00	0.00
16,900.00	90.19	359.86	10,424.20	6,678.51	-15.89	6,678.52	0.00	0.00	0.00
17,000.00	90.19	359.86	10,423.87	6,778.50	-16.13	6,778.52	0.00	0.00	0.00
17,100.00	90.19	359.86	10,423.53	6,878.50	-16.36	6,878.52	0.00	0.00	0.00
17,200.00	90.19	359.86	10,423.19	6,978.50	-16.60	6,978.52	0.00	0.00	0.00
17,300.00	90.19	359.86	10,422.85	7,078.50	-16.84	7,078.52	0.00	0.00	0.00
17,400.00	90.19	359.86	10,422.52	7,178.50	-17.08	7,178.52	0.00	0.00	0.00
17,500.00	90.19	359.86	10,422.18	7,278.50	-17.32	7,278.52	0.00	0.00	0.00
17,600.00	90.19	359.86	10,421.84	7,378.50	-17.55	7,378.52	0.00	0.00	0.00
17,700.00	90.19	359.86	10,421.50	7,478.50	-17.79	7,478.52	0.00	0.00	0.00
17,800.00	90.19	359.86	10,421.16	7,578.50	-18.03	7,578.52	0.00	0.00	0.00

LEAM Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 41H
Company:	DEVON ENERGY	TVD Reference:	3356.7' GL + 25' RKB @ 3381.70usft
Project:	Lea County, NM (NAD-83)	MD Reference:	3356.7' GL + 25' RKB @ 3381.70usft
Site:	Green Wave 20-17 Fed	North Reference:	Grid
Well:	41H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned 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)
17,900.00	90.19	359.86	10,420.83	7,678.50	-18.27	7,678.52	0.00	0.00	0.00
18,000.00	90.19	359.86	10,420.49	7,778.50	-18.51	7,778.52	0.00	0.00	0.00
18,100.00	90.19	359.86	10,420.15	7,878.49	-18.74	7,878.52	0.00	0.00	0.00
18,144.72	90.19	359.86	10,420.00	7,923.21	-18.85	7,923.23	0.00	0.00	0.00
TD - PBHL (GW20-17F 41H)									

Design Targets									
Target Name	hit/miss target	Dip Angle (°)	Dip Dir (°)	TVD (usft)	+N-S (usft)	+E-W (usft)	Northing (usft)	Easting (usft)	
Shape									Latitude Longitude
SHL (GW20-17F 41H)	- plan hits target center	0.00	0.00	0.00	0.00	0.00	374,927.42	799,786.41	32° 1' 40.847 N 103° 29' 57.676 W
	- Point								
PBHL (GW20-17F 41H)	- plan hits target center	0.00	0.00	10,420.00	7,923.21	-18.85	382,850.63	799,767.56	32° 2' 59.251 N 103° 29' 57.184 W
	- Point								

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
733.00	733.00	Rustler		0.00		
1,163.00	1,163.00	Salado		0.00		
5,289.00	5,289.00	Lamar		0.00		
5,324.00	5,324.00	Bell Canyon		0.00		
6,405.00	6,405.00	Cherry Canyon		0.00		
7,953.00	7,953.00	Brushy Canyon		0.00		
9,374.00	9,374.00	Lwr Brushy		0.00		
9,620.00	9,620.00	Bone Spring		0.00		
9,640.00	9,640.00	Upr Leonard		0.00		
9,920.00	9,920.00	Upr Leonard Base		0.00		
10,176.79	10,167.00	Mid Leonard		0.00		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N-S (usft)	+E-W (usft)	
9,924.13	9,924.13	0.00	0.00	KOP 11° DLS
10,744.07	10,445.00	522.63	-1.24	LP
18,144.72	10,420.00	7,923.21	-18.85	TD