

HOBBS OCD

OCT 22 2014

RECEIVED

DEVON ENERGY

Lea County, NM (NAD-83)

Divide 3 State Com

1H

OH

Plan: Plan #1

Standard Planning Report

13 October, 2014

OCT 22 2014

LEAM Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 1H
Company:	DEVON ENERGY	TVD Reference:	3802.7' GL + 25' RKB @ 3827.70usft
Project:	Lea County, NM (NAD-83)	MD Reference:	3802.7' GL + 25' RKB @ 3827.70usft
Site:	Divide 3 State Com	North Reference:	Grid
Well:	1H	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	Divide 3 State Com				
Site Position:		Northing:	515,466.11 usft	Latitude:	32° 24' 55.085 N
From:	Map	Easting:	748,118.54 usft	Longitude:	103° 39' 47.666 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.36 °

Well	1H, 3rd BS SS					
Well Position	+N/-S	0.00 usft	Northing:	515,466.11 usft	Latitude:	32° 24' 55.085 N
	+E/-W	0.00 usft	Easting:	748,118.54 usft	Longitude:	103° 39' 47.666 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	3,827.70 usft	Ground Level:	3,802.70 usft

Wellbore	OH				
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2014	10/13/2014	7.40	60.26	48,344

Design	Plan #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	269.45

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	
11,382.08	0.00	0.00	11,382.08	0.00	0.00	0.00	0.00	0.00	0.00	
12,288.95	90.69	269.45	11,955.00	-5.55	-579.80	10.00	10.00	-9.98	269.45	
16,458.94	90.69	269.45	11,905.00	-45.49	-4,749.30	0.00	0.00	0.00	0.00	PBHL (D3SC 1H)

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Well:	1H	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 (D3SC 1H)									
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
739.00	0.00	0.00	739.00	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
1,080.00	0.00	0.00	1,080.00	0.00	0.00	0.00	0.00	0.00	0.00
Top Salt									
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
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
4,540.00	0.00	0.00	4,540.00	0.00	0.00	0.00	0.00	0.00	0.00
Base Salt									
4,600.00	0.00	0.00	4,600.00	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)
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,875.00	0.00	0.00	4,875.00	0.00	0.00	0.00	0.00	0.00	0.00
Delaware									
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
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00
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
5,845.00	0.00	0.00	5,845.00	0.00	0.00	0.00	0.00	0.00	0.00
Cherry Canyon									
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
6,500.00	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
6,920.00	0.00	0.00	6,920.00	0.00	0.00	0.00	0.00	0.00	0.00
Brushy Canyon									
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
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
8,430.00	0.00	0.00	8,430.00	0.00	0.00	0.00	0.00	0.00	0.00
Lwr Brushy									
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
1st BS LM									
9,000.00	0.00	0.00	9,000.00	0.00	0.00	0.00	0.00	0.00	0.00

LEAM Drilling Systems LLC

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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
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
9,700.00	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
9,905.00	0.00	0.00	9,905.00	0.00	0.00	0.00	0.00	0.00	0.00
1st BS SS									
10,000.00	0.00	0.00	10,000.00	0.00	0.00	0.00	0.00	0.00	0.00
10,100.00	0.00	0.00	10,100.00	0.00	0.00	0.00	0.00	0.00	0.00
10,200.00	0.00	0.00	10,200.00	0.00	0.00	0.00	0.00	0.00	0.00
10,300.00	0.00	0.00	10,300.00	0.00	0.00	0.00	0.00	0.00	0.00
10,400.00	0.00	0.00	10,400.00	0.00	0.00	0.00	0.00	0.00	0.00
10,440.00	0.00	0.00	10,440.00	0.00	0.00	0.00	0.00	0.00	0.00
2nd BS LM									
10,500.00	0.00	0.00	10,500.00	0.00	0.00	0.00	0.00	0.00	0.00
10,600.00	0.00	0.00	10,600.00	0.00	0.00	0.00	0.00	0.00	0.00
10,700.00	0.00	0.00	10,700.00	0.00	0.00	0.00	0.00	0.00	0.00
10,800.00	0.00	0.00	10,800.00	0.00	0.00	0.00	0.00	0.00	0.00
10,900.00	0.00	0.00	10,900.00	0.00	0.00	0.00	0.00	0.00	0.00
10,940.00	0.00	0.00	10,940.00	0.00	0.00	0.00	0.00	0.00	0.00
3rd BS LM									
11,000.00	0.00	0.00	11,000.00	0.00	0.00	0.00	0.00	0.00	0.00
11,100.00	0.00	0.00	11,100.00	0.00	0.00	0.00	0.00	0.00	0.00
11,200.00	0.00	0.00	11,200.00	0.00	0.00	0.00	0.00	0.00	0.00
11,300.00	0.00	0.00	11,300.00	0.00	0.00	0.00	0.00	0.00	0.00
11,382.08	0.00	0.00	11,382.08	0.00	0.00	0.00	0.00	0.00	0.00
KOP 10° DLS									
11,400.00	1.79	269.45	11,400.00	0.00	-0.28	0.28	10.00	10.00	0.00
11,450.00	6.79	269.45	11,449.84	-0.04	-4.02	4.02	10.00	10.00	0.00
11,500.00	11.79	269.45	11,499.17	-0.12	-12.09	12.09	10.00	10.00	0.00
11,550.00	16.79	269.45	11,547.61	-0.23	-24.43	24.43	10.00	10.00	0.00
11,600.00	21.79	269.45	11,594.78	-0.39	-40.94	40.94	10.00	10.00	0.00
11,621.95	23.99	269.45	11,615.00	-0.47	-49.48	49.48	10.00	10.00	0.00
3rd BS SS									
11,650.00	26.79	269.45	11,640.34	-0.59	-61.50	61.51	10.00	10.00	0.00
11,700.00	31.79	269.45	11,683.94	-0.82	-85.96	85.96	10.00	10.00	0.00
11,750.00	36.79	269.45	11,725.23	-1.09	-114.12	114.12	10.00	10.00	0.00
11,800.00	41.79	269.45	11,763.92	-1.40	-145.77	145.78	10.00	10.00	0.00
11,850.00	46.79	269.45	11,799.69	-1.73	-180.67	180.68	10.00	10.00	0.00
11,900.00	51.79	269.45	11,832.29	-2.09	-218.56	218.57	10.00	10.00	0.00
11,950.00	56.79	269.45	11,861.47	-2.48	-259.15	259.16	10.00	10.00	0.00
12,000.00	61.79	269.45	11,886.99	-2.89	-302.12	302.14	10.00	10.00	0.00
12,050.00	66.79	269.45	11,908.67	-3.33	-347.16	347.17	10.00	10.00	0.00
12,100.00	71.79	269.45	11,926.35	-3.77	-393.91	393.93	10.00	10.00	0.00
12,150.00	76.79	269.45	11,939.88	-4.23	-442.02	442.04	10.00	10.00	0.00
12,200.00	81.79	269.45	11,949.17	-4.70	-491.14	491.16	10.00	10.00	0.00
12,250.00	86.79	269.45	11,954.14	-5.18	-540.87	540.89	10.00	10.00	0.00
12,288.95	90.69	269.45	11,955.00	-5.55	-579.80	579.83	10.00	10.00	0.00
LP									

LEAM Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 1H
Company:	DEVON ENERGY	TVD Reference:	3802.7' GL + 25' RKB @ 3827.70usft
Project:	Lea County, NM (NAD-83)	MD Reference:	3802.7' GL + 25' RKB @ 3827.70usft
Site:	Divide 3 State Com	North Reference:	Grid
Well:	1H	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)
12,300.00	90.69	269.45	11,954.86	-5.66	-590.85	590.88	0.00	0.00	0.00
12,400.00	90.69	269.45	11,953.67	-6.62	-690.84	690.87	0.00	0.00	0.00
12,500.00	90.69	269.45	11,952.47	-7.57	-790.83	790.86	0.00	0.00	0.00
12,600.00	90.69	269.45	11,951.27	-8.53	-890.81	890.86	0.00	0.00	0.00
12,700.00	90.69	269.45	11,950.07	-9.49	-990.80	990.85	0.00	0.00	0.00
12,800.00	90.69	269.45	11,948.87	-10.45	-1,090.79	1,090.84	0.00	0.00	0.00
12,900.00	90.69	269.45	11,947.67	-11.41	-1,190.78	1,190.83	0.00	0.00	0.00
13,000.00	90.69	269.45	11,946.47	-12.36	-1,290.77	1,290.83	0.00	0.00	0.00
13,100.00	90.69	269.45	11,945.27	-13.32	-1,390.76	1,390.82	0.00	0.00	0.00
13,200.00	90.69	269.45	11,944.07	-14.28	-1,490.74	1,490.81	0.00	0.00	0.00
13,300.00	90.69	269.45	11,942.87	-15.24	-1,590.73	1,590.80	0.00	0.00	0.00
13,400.00	90.69	269.45	11,941.68	-16.19	-1,690.72	1,690.80	0.00	0.00	0.00
13,500.00	90.69	269.45	11,940.48	-17.15	-1,790.71	1,790.79	0.00	0.00	0.00
13,600.00	90.69	269.45	11,939.28	-18.11	-1,890.70	1,890.78	0.00	0.00	0.00
13,700.00	90.69	269.45	11,938.08	-19.07	-1,990.68	1,990.78	0.00	0.00	0.00
13,800.00	90.69	269.45	11,936.88	-20.02	-2,090.67	2,090.77	0.00	0.00	0.00
13,900.00	90.69	269.45	11,935.68	-20.98	-2,190.66	2,190.76	0.00	0.00	0.00
14,000.00	90.69	269.45	11,934.48	-21.94	-2,290.65	2,290.75	0.00	0.00	0.00
14,100.00	90.69	269.45	11,933.28	-22.90	-2,390.64	2,390.75	0.00	0.00	0.00
14,200.00	90.69	269.45	11,932.08	-23.86	-2,490.63	2,490.74	0.00	0.00	0.00
14,300.00	90.69	269.45	11,930.89	-24.81	-2,590.61	2,590.73	0.00	0.00	0.00
14,400.00	90.69	269.45	11,929.69	-25.77	-2,690.60	2,690.73	0.00	0.00	0.00
14,500.00	90.69	269.45	11,928.49	-26.73	-2,790.59	2,790.72	0.00	0.00	0.00
14,600.00	90.69	269.45	11,927.29	-27.69	-2,890.58	2,890.71	0.00	0.00	0.00
14,700.00	90.69	269.45	11,926.09	-28.64	-2,990.57	2,990.70	0.00	0.00	0.00
14,800.00	90.69	269.45	11,924.89	-29.60	-3,090.56	3,090.70	0.00	0.00	0.00
14,900.00	90.69	269.45	11,923.69	-30.56	-3,190.54	3,190.69	0.00	0.00	0.00
15,000.00	90.69	269.45	11,922.49	-31.52	-3,290.53	3,290.68	0.00	0.00	0.00
15,100.00	90.69	269.45	11,921.29	-32.48	-3,390.52	3,390.68	0.00	0.00	0.00
15,200.00	90.69	269.45	11,920.09	-33.43	-3,490.51	3,490.67	0.00	0.00	0.00
15,300.00	90.69	269.45	11,918.90	-34.39	-3,590.50	3,590.66	0.00	0.00	0.00
15,400.00	90.69	269.45	11,917.70	-35.35	-3,690.48	3,690.65	0.00	0.00	0.00
15,500.00	90.69	269.45	11,916.50	-36.31	-3,790.47	3,790.65	0.00	0.00	0.00
15,600.00	90.69	269.45	11,915.30	-37.26	-3,890.46	3,890.64	0.00	0.00	0.00
15,700.00	90.69	269.45	11,914.10	-38.22	-3,990.45	3,990.63	0.00	0.00	0.00
15,800.00	90.69	269.45	11,912.90	-39.18	-4,090.44	4,090.63	0.00	0.00	0.00
15,900.00	90.69	269.45	11,911.70	-40.14	-4,190.43	4,190.62	0.00	0.00	0.00
16,000.00	90.69	269.45	11,910.50	-41.09	-4,290.41	4,290.61	0.00	0.00	0.00
16,100.00	90.69	269.45	11,909.30	-42.05	-4,390.40	4,390.60	0.00	0.00	0.00
16,200.00	90.69	269.45	11,908.10	-43.01	-4,490.39	4,490.60	0.00	0.00	0.00
16,300.00	90.69	269.45	11,906.91	-43.97	-4,590.38	4,590.59	0.00	0.00	0.00
16,400.00	90.69	269.45	11,905.71	-44.93	-4,690.37	4,690.58	0.00	0.00	0.00
16,458.94	90.69	269.45	11,905.00	-45.49	-4,749.30	4,749.52	0.00	0.00	0.00

TD - PBHL (D3SC 1H)

LEAM Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 1H
Company:	DEVON ENERGY	TVD Reference:	3802.7' GL + 25' RKB @ 3827.70usft
Project:	Lea County, NM (NAD-83)	MD Reference:	3802.7' GL + 25' RKB @ 3827.70usft
Site:	Divide 3 State Com	North Reference:	Grid
Well:	1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SHL (D3SC 1H) - hit/miss target - Shape - Point	0.00	0.00	0.00	0.00	0.00	515,466.11	748,118.54	32° 24' 55.085 N	103° 39' 47.666 W
PBHL (D3SC 1H) - plan hits target center - Point	0.00	0.00	11,905.00	-45.49	-4,749.30	515,420.62	743,369.24	32° 24' 54.926 N	103° 40' 43.072 W

Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
739.00	739.00	Rustler		0.00	
1,080.00	1,080.00	Top Salt		0.00	
4,540.00	4,540.00	Base Salt		0.00	
4,875.00	4,875.00	Delaware		0.00	
5,845.00	5,845.00	Cherry Canyon		0.00	
6,920.00	6,920.00	Brushy Canyon		0.00	
8,430.00	8,430.00	Lwr Brushy		0.00	
8,900.00	8,900.00	1st BS LM		0.00	
9,905.00	9,905.00	1st BS SS		0.00	
10,440.00	10,440.00	2nd BS LM		0.00	
10,940.00	10,940.00	3rd BS LM		0.00	
11,621.95	11,615.00	3rd BS SS		0.00	

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
11,382.08	11,382.08	0.00	0.00	KOP 10° DLS
12,288.95	11,955.00	-5.55	-579.80	LP
16,458.94	11,905.00	-45.49	-4,749.30	TD