

HOBBS OCD

APR 25 2016

RECEIVED

DEVON ENERGY

Lea County, NM (NAD-83)

Morab 29 Fed Com

1H

OH

Plan: Plan #1

Standard Planning Report

02 October, 2014

APR 26 2016

LEAM Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 1H
Company:	DEVON ENERGY	TVD Reference:	3367.4' GL + 25' RKB @ 3392.40usft
Project:	Lea County, NM (NAD-83)	MD Reference:	3367.4' GL + 25' RKB @ 3392.40usft
Site:	Morab 29 Fed 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	Morab 29 Fed Com		
Site Position:		Northing:	401,370.13 usft
From:	Map	Easting:	736,290.61 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16"
		Latitude:	32° 6' 6.772 N
		Longitude:	103° 42' 13.451 W
		Grid Convergence:	0.33 °

Well:	1H, 2nd BS, SS		
Well Position	+N/-S	0.00 usft	Northing:
	+E/-W	0.00 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	3,392.40 usft
		Ground Level:	3,367.40 usft
		Latitude:	32° 6' 6.772 N
		Longitude:	103° 42' 13.451 W

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	BGGM2014	10/2/2014	(°)	(°)	(nT)
			7.40	59.96	48,157

Design	Plan #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.00	0.00	0.00	359.59

Plan Sections										
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Dogleg Rate	Build Rate	Turn Rate	TFO	Target
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)	(°)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9,982.59	0.00	0.00	9,982.59	0.00	0.00	0.00	0.00	0.00	0.00	
10,892.99	91.04	359.59	10,555.45	583.34	-4.22	10.00	10.00	0.00	359.59	
17,694.55	91.04	359.59	10,432.00	7,383.61	-53.41	0.00	0.00	0.00	0.00	PBHL (M29FC 1H)

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Site:	Morab 29 Fed 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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SHL (M29FC 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
599.00	0.00	0.00	599.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler									
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
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
994.00	0.00	0.00	994.00	0.00	0.00	0.00	0.00	0.00	0.00
Top Salt									
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
1,200.00	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
Castile									
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
4,407.00	0.00	0.00	4,407.00	0.00	0.00	0.00	0.00	0.00	0.00
Bell Canyon									
4,500.00	0.00	0.00	4,500.00	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)
4,600.00	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
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
5,296.00	0.00	0.00	5,296.00	0.00	0.00	0.00	0.00	0.00	0.00
Cherry Canyon									
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
5,900.00	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
6,621.00	0.00	0.00	6,621.00	0.00	0.00	0.00	0.00	0.00	0.00
Brushy Canyon									
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
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
8,203.00	0.00	0.00	8,203.00	0.00	0.00	0.00	0.00	0.00	0.00
1st BS LM									
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

LEAM Drilling Systems LLC

Planning Report

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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)	
9,300.00	0.00	0.00	9,300.00	0.00	0.00	0.00	0.00	0.00	0.00	
9,334.00	0.00	0.00	9,334.00	0.00	0.00	0.00	0.00	0.00	0.00	
1st BS SS										
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	
9,711.00	0.00	0.00	9,711.00	0.00	0.00	0.00	0.00	0.00	0.00	
2nd BS LM										
9,800.00	0.00	0.00	9,800.00	0.00	0.00	0.00	0.00	0.00	0.00	
9,890.00	0.00	0.00	9,890.00	0.00	0.00	0.00	0.00	0.00	0.00	
2nd BS SS										
9,900.00	0.00	0.00	9,900.00	0.00	0.00	0.00	0.00	0.00	0.00	
9,982.59	0.00	0.00	9,982.59	0.00	0.00	0.00	0.00	0.00	0.00	
KOP 10° DLS										
10,000.00	1.74	359.59	10,000.00	0.26	0.00	0.26	10.00	10.00	0.00	
10,050.00	6.74	359.59	10,049.84	3.96	-0.03	3.96	10.00	10.00	0.00	
10,100.00	11.74	359.59	10,099.18	11.99	-0.09	11.99	10.00	10.00	0.00	
10,150.00	16.74	359.59	10,147.63	24.28	-0.18	24.28	10.00	10.00	0.00	
10,200.00	21.74	359.59	10,194.82	40.76	-0.29	40.76	10.00	10.00	0.00	
10,250.00	26.74	359.59	10,240.40	61.28	-0.44	61.28	10.00	10.00	0.00	
10,300.00	31.74	359.59	10,284.01	85.69	-0.62	85.70	10.00	10.00	0.00	
10,350.00	36.74	359.59	10,325.33	113.82	-0.82	113.82	10.00	10.00	0.00	
10,400.00	41.74	359.59	10,364.04	145.44	-1.05	145.44	10.00	10.00	0.00	
10,450.00	46.74	359.59	10,399.85	180.31	-1.30	180.31	10.00	10.00	0.00	
10,500.00	51.74	359.59	10,432.49	218.17	-1.58	218.17	10.00	10.00	0.00	
10,550.00	56.74	359.59	10,461.70	258.73	-1.87	258.74	10.00	10.00	0.00	
10,600.00	61.74	359.59	10,487.26	301.68	-2.18	301.69	10.00	10.00	0.00	
10,650.00	66.74	359.59	10,508.98	346.70	-2.51	346.71	10.00	10.00	0.00	
10,700.00	71.74	359.59	10,526.70	393.43	-2.85	393.44	10.00	10.00	0.00	
10,750.00	76.74	359.59	10,540.27	441.54	-3.19	441.55	10.00	10.00	0.00	
10,800.00	81.74	359.59	10,549.60	490.64	-3.55	490.66	10.00	10.00	0.00	
10,850.00	86.74	359.59	10,554.62	540.37	-3.91	540.39	10.00	10.00	0.00	
10,892.99	91.04	359.59	10,555.45	583.34	-4.22	583.36	10.00	10.00	0.00	
LP										
10,900.00	91.04	359.59	10,555.32	590.35	-4.27	590.37	0.00	0.00	0.00	
11,000.00	91.04	359.59	10,553.51	690.33	-4.99	690.35	0.00	0.00	0.00	
11,100.00	91.04	359.59	10,551.69	790.31	-5.72	790.34	0.00	0.00	0.00	
11,200.00	91.04	359.59	10,549.88	890.30	-6.44	890.32	0.00	0.00	0.00	
11,300.00	91.04	359.59	10,548.06	990.28	-7.16	990.30	0.00	0.00	0.00	
11,400.00	91.04	359.59	10,546.25	1,090.26	-7.89	1,090.29	0.00	0.00	0.00	
11,500.00	91.04	359.59	10,544.43	1,190.24	-8.61	1,190.27	0.00	0.00	0.00	
11,600.00	91.04	359.59	10,542.62	1,290.22	-9.33	1,290.25	0.00	0.00	0.00	
11,700.00	91.04	359.59	10,540.80	1,390.20	-10.06	1,390.24	0.00	0.00	0.00	
11,800.00	91.04	359.59	10,538.99	1,490.18	-10.78	1,490.22	0.00	0.00	0.00	
11,900.00	91.04	359.59	10,537.17	1,590.16	-11.50	1,590.20	0.00	0.00	0.00	
12,000.00	91.04	359.59	10,535.36	1,690.14	-12.23	1,690.19	0.00	0.00	0.00	
12,100.00	91.04	359.59	10,533.54	1,790.12	-12.95	1,790.17	0.00	0.00	0.00	
12,200.00	91.04	359.59	10,531.73	1,890.10	-13.67	1,890.15	0.00	0.00	0.00	
12,300.00	91.04	359.59	10,529.91	1,990.09	-14.40	1,990.14	0.00	0.00	0.00	
12,400.00	91.04	359.59	10,528.10	2,090.07	-15.12	2,090.12	0.00	0.00	0.00	
12,500.00	91.04	359.59	10,526.28	2,190.05	-15.84	2,190.10	0.00	0.00	0.00	
12,600.00	91.04	359.59	10,524.47	2,290.03	-16.57	2,290.09	0.00	0.00	0.00	

LEAM Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well: 1H
Company:	DEVON ENERGY	TVD Reference:	3367.4' GL + 25' RKB @ 3392.40usft
Project:	Lea County, NM (NAD-83)	MD Reference:	3367.4' GL + 25' RKB @ 3392.40usft
Site:	Morab 29 Fed 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)	
12,700.00	91.04	359.59	10,522.65	2,390.01	-17.29	2,390.07	0.00	0.00	0.00	
12,800.00	91.04	359.59	10,520.84	2,489.99	-18.01	2,490.06	0.00	0.00	0.00	
12,900.00	91.04	359.59	10,519.02	2,589.97	-18.73	2,590.04	0.00	0.00	0.00	
13,000.00	91.04	359.59	10,517.21	2,689.95	-19.46	2,690.02	0.00	0.00	0.00	
13,100.00	91.04	359.59	10,515.39	2,789.93	-20.18	2,790.01	0.00	0.00	0.00	
13,200.00	91.04	359.59	10,513.58	2,889.91	-20.90	2,889.99	0.00	0.00	0.00	
13,300.00	91.04	359.59	10,511.76	2,989.89	-21.63	2,989.97	0.00	0.00	0.00	
13,400.00	91.04	359.59	10,509.95	3,089.88	-22.35	3,089.96	0.00	0.00	0.00	
13,500.00	91.04	359.59	10,508.13	3,189.86	-23.07	3,189.94	0.00	0.00	0.00	
13,600.00	91.04	359.59	10,506.32	3,289.84	-23.80	3,289.92	0.00	0.00	0.00	
13,700.00	91.04	359.59	10,504.50	3,389.82	-24.52	3,389.91	0.00	0.00	0.00	
13,800.00	91.04	359.59	10,502.69	3,489.80	-25.24	3,489.89	0.00	0.00	0.00	
13,900.00	91.04	359.59	10,500.87	3,589.78	-25.97	3,589.87	0.00	0.00	0.00	
14,000.00	91.04	359.59	10,499.06	3,689.76	-26.69	3,689.86	0.00	0.00	0.00	
14,100.00	91.04	359.59	10,497.24	3,789.74	-27.41	3,789.84	0.00	0.00	0.00	
14,200.00	91.04	359.59	10,495.43	3,889.72	-28.14	3,889.82	0.00	0.00	0.00	
14,300.00	91.04	359.59	10,493.61	3,989.70	-28.86	3,989.81	0.00	0.00	0.00	
14,400.00	91.04	359.59	10,491.80	4,089.68	-29.58	4,089.79	0.00	0.00	0.00	
14,500.00	91.04	359.59	10,489.98	4,189.67	-30.31	4,189.78	0.00	0.00	0.00	
14,600.00	91.04	359.59	10,488.17	4,289.65	-31.03	4,289.76	0.00	0.00	0.00	
14,700.00	91.04	359.59	10,486.35	4,389.63	-31.75	4,389.74	0.00	0.00	0.00	
14,800.00	91.04	359.59	10,484.54	4,489.61	-32.48	4,489.73	0.00	0.00	0.00	
14,900.00	91.04	359.59	10,482.72	4,589.59	-33.20	4,589.71	0.00	0.00	0.00	
15,000.00	91.04	359.59	10,480.91	4,689.57	-33.92	4,689.69	0.00	0.00	0.00	
15,100.00	91.04	359.59	10,479.09	4,789.55	-34.65	4,789.68	0.00	0.00	0.00	
15,200.00	91.04	359.59	10,477.28	4,889.53	-35.37	4,889.66	0.00	0.00	0.00	
15,300.00	91.04	359.59	10,475.46	4,989.51	-36.09	4,989.64	0.00	0.00	0.00	
15,400.00	91.04	359.59	10,473.65	5,089.49	-36.82	5,089.63	0.00	0.00	0.00	
15,500.00	91.04	359.59	10,471.83	5,189.47	-37.54	5,189.61	0.00	0.00	0.00	
15,600.00	91.04	359.59	10,470.02	5,289.46	-38.26	5,289.59	0.00	0.00	0.00	
15,700.00	91.04	359.59	10,468.20	5,389.44	-38.98	5,389.58	0.00	0.00	0.00	
15,800.00	91.04	359.59	10,466.39	5,489.42	-39.71	5,489.56	0.00	0.00	0.00	
15,900.00	91.04	359.59	10,464.57	5,589.40	-40.43	5,589.54	0.00	0.00	0.00	
16,000.00	91.04	359.59	10,462.76	5,689.38	-41.15	5,689.53	0.00	0.00	0.00	
16,100.00	91.04	359.59	10,460.94	5,789.36	-41.88	5,789.51	0.00	0.00	0.00	
16,200.00	91.04	359.59	10,459.13	5,889.34	-42.60	5,889.50	0.00	0.00	0.00	
16,300.00	91.04	359.59	10,457.31	5,989.32	-43.32	5,989.48	0.00	0.00	0.00	
16,400.00	91.04	359.59	10,455.50	6,089.30	-44.05	6,089.46	0.00	0.00	0.00	
16,500.00	91.04	359.59	10,453.68	6,189.28	-44.77	6,189.45	0.00	0.00	0.00	
16,600.00	91.04	359.59	10,451.87	6,289.26	-45.49	6,289.43	0.00	0.00	0.00	
16,700.00	91.04	359.59	10,450.05	6,389.25	-46.22	6,389.41	0.00	0.00	0.00	
16,800.00	91.04	359.59	10,448.24	6,489.23	-46.94	6,489.40	0.00	0.00	0.00	
16,900.00	91.04	359.59	10,446.42	6,589.21	-47.66	6,589.38	0.00	0.00	0.00	
17,000.00	91.04	359.59	10,444.61	6,689.19	-48.39	6,689.36	0.00	0.00	0.00	
17,100.00	91.04	359.59	10,442.79	6,789.17	-49.11	6,789.35	0.00	0.00	0.00	
17,200.00	91.04	359.59	10,440.98	6,889.15	-49.83	6,889.33	0.00	0.00	0.00	
17,300.00	91.04	359.59	10,439.16	6,989.13	-50.56	6,989.31	0.00	0.00	0.00	
17,400.00	91.04	359.59	10,437.35	7,089.11	-51.28	7,089.30	0.00	0.00	0.00	
17,500.00	91.04	359.59	10,435.53	7,189.09	-52.00	7,189.28	0.00	0.00	0.00	
17,600.00	91.04	359.59	10,433.72	7,289.07	-52.73	7,289.26	0.00	0.00	0.00	
17,694.55	91.04	359.59	10,432.00	7,383.61	-53.41	7,383.80	0.00	0.00	0.00	
TD PBHL (M29FC 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:	3367.4' GL + 25' RKB @ 3392.40usft
Project:	Lea County, NM (NAD-83)	MD Reference:	3367.4' GL + 25' RKB @ 3392.40usft
Site:	Morab 29 Fed Com	North Reference:	Grid
Well:	1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Design Targets									
Target Name	hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	
Shape		(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	Latitude Longitude
SHL (M29FC 1H)		0.00	0.00	0.00	0.00	0.00	401,370.13	736,290.61	32° 6' 6.772 N 103° 42' 13.451 W
- plan hits target center									
- Point									
PBHL (M29FC 1H)		0.00	0.00	10,432.00	7,383.61	-53.41	408,753.74	736,237.20	32° 7' 19.840 N 103° 42' 13.571 W
- plan hits target center									
- Point									

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(usft)	(usft)			(°)	(°)	
599.00	599.00	Rustler		0.00		
994.00	994.00	Top Salt		0.00		
2,800.00	2,800.00	Castile		0.00		
4,407.00	4,407.00	Bell Canyon		0.00		
5,296.00	5,296.00	Cherry Canyon		0.00		
6,621.00	6,621.00	Brushy Canyon		0.00		
8,203.00	8,203.00	1st BS LM		0.00		
9,334.00	9,334.00	1st BS SS		0.00		
9,711.00	9,711.00	2nd BS LM		0.00		
9,890.00	9,890.00	2nd BS SS		0.00		

Plan Annotations					
Measured Depth	Vertical Depth	Local Coordinates			
(usft)	(usft)	+N/-S	+E/-W	Comment	
(usft)	(usft)	(usft)	(usft)		
9,982.59	9,982.59	0.00	0.00	KOP 10" DLS	
10,892.99	10,555.45	583.34	-4.22	LP	
17,694.55	10,432.00	7,383.61	-53.41	TD	