

DEVON ENERGY

Lea County, NM (NAD-83)

Thistle Unit

124H

30-025-42681

OH

Plan: Plan #2

Standard Planning Report

01 July, 2015

JUL 14 2015

LEAM Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 124H
Company:	DEVON ENERGY	TVD Reference:	3716.5' GL + 25' RKB @ 3741.50usft (Original Well Elev)
Project:	Lea County, NM (NAD-83)	MD Reference:	3716.5' GL + 25' RKB @ 3741.50usft (Original Well Elev)
Site:	Thistle Unit	North Reference:	Grid
Well:	124H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

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		Thistle Unit			
Site Position:		Northing:	468,026.90 usft	Latitude:	32° 17' 3.494 N
From:	Map	Easting:	780,722.56 usft	Longitude:	103° 33' 31.335 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.41

Well	124H					
Well Position	+N/-S	4,521.88 usft	Northing:	472,548.78 usft	Latitude:	32° 17' 48.433 N
	+E/-W	-2,739.86 usft	Easting:	777,982.70 usft	Longitude:	103° 34' 2.874 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	3,741.50 usft	Ground Level:	3,716.50 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2014	6/12/2015	7.28	60.15	48,203

Design	Plan #2			
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	182.79

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	
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,633.33	6.50	90.00	5,632.40	0.00	24.55	1.50	1.50	0.00	90.00	
8,540.33	6.50	90.00	8,520.72	0.00	353.64	0.00	0.00	0.00	0.00	
8,973.67	0.00	0.00	8,953.12	0.00	378.19	1.50	-1.50	0.00	180.00	
9,173.67	0.00	0.00	9,153.12	0.00	378.19	0.00	0.00	0.00	0.00	
10,073.67	90.00	182.80	9,726.08	-572.28	350.24	10.00	10.00	-19.69	182.80	
17,133.67	90.00	182.80	9,726.00	-7,623.87	5.86	0.00	0.00	0.00	0.00	PBHL (TU 124H)

LEAM Drilling Systems LLC

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Site:	Thistle Unit	North Reference:	Grid
Well:	124H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

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 (TU 124H)									
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
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
1,200.00	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
1,361.00	0.00	0.00	1,361.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler									
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
1,621.00	0.00	0.00	1,621.00	0.00	0.00	0.00	0.00	0.00	0.00
Top Salt									
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
Nudge									
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
4,333.33	0.00	0.00	4,333.33	0.00	0.00	0.00	0.00	0.00	0.00

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Design:	Plan #2		

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)
Hold									
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
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
4,944.00	0.00	0.00	4,944.00	0.00	0.00	0.00	0.00	0.00	0.00
Base Salt									
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
5,216.00	0.24	90.00	5,216.00	0.00	0.03	0.00	1.50	1.50	0.00
Delaware									
5,300.00	1.50	90.00	5,299.99	0.00	1.31	-0.06	1.50	1.50	0.00
5,400.00	3.00	90.00	5,399.91	0.00	5.23	-0.25	1.50	1.50	0.00
5,500.00	4.50	90.00	5,499.69	0.00	11.77	-0.57	1.50	1.50	0.00
5,600.00	6.00	90.00	5,599.27	0.00	20.92	-1.02	1.50	1.50	0.00
5,633.33	6.50	90.00	5,632.40	0.00	24.55	-1.20	1.50	1.50	0.00
5,700.00	6.50	90.00	5,698.64	0.00	32.10	-1.56	0.00	0.00	0.00
5,800.00	6.50	90.00	5,798.00	0.00	43.42	-2.11	0.00	0.00	0.00
5,900.00	6.50	90.00	5,897.36	0.00	54.74	-2.66	0.00	0.00	0.00
6,000.00	6.50	90.00	5,996.71	0.00	66.06	-3.22	0.00	0.00	0.00
6,100.00	6.50	90.00	6,096.07	0.00	77.38	-3.77	0.00	0.00	0.00
6,179.44	6.50	90.00	6,175.00	0.00	86.37	-4.20	0.00	0.00	0.00
Cherry Canyon									
6,200.00	6.50	90.00	6,195.43	0.00	88.70	-4.32	0.00	0.00	0.00
6,300.00	6.50	90.00	6,294.79	0.00	100.02	-4.87	0.00	0.00	0.00
6,400.00	6.50	90.00	6,394.14	0.00	111.34	-5.42	0.00	0.00	0.00
6,500.00	6.50	90.00	6,493.50	0.00	122.66	-5.97	0.00	0.00	0.00
6,600.00	6.50	90.00	6,592.86	0.00	133.98	-6.52	0.00	0.00	0.00
6,700.00	6.50	90.00	6,692.21	0.00	145.30	-7.07	0.00	0.00	0.00
6,800.00	6.50	90.00	6,791.57	0.00	156.62	-7.62	0.00	0.00	0.00
6,900.00	6.50	90.00	6,890.93	0.00	167.94	-8.17	0.00	0.00	0.00
7,000.00	6.50	90.00	6,990.29	0.00	179.26	-8.73	0.00	0.00	0.00
7,100.00	6.50	90.00	7,089.64	0.00	190.59	-9.28	0.00	0.00	0.00
7,200.00	6.50	90.00	7,189.00	0.00	201.91	-9.83	0.00	0.00	0.00
7,300.00	6.50	90.00	7,288.36	0.00	213.23	-10.38	0.00	0.00	0.00
7,400.00	6.50	90.00	7,387.71	0.00	224.55	-10.93	0.00	0.00	0.00
7,500.00	6.50	90.00	7,487.07	0.00	235.87	-11.48	0.00	0.00	0.00
7,600.00	6.50	90.00	7,586.43	0.00	247.19	-12.03	0.00	0.00	0.00
7,700.00	6.50	90.00	7,685.79	0.00	258.51	-12.58	0.00	0.00	0.00
7,800.00	6.50	90.00	7,785.14	0.00	269.83	-13.13	0.00	0.00	0.00
7,900.00	6.50	90.00	7,884.50	0.00	281.15	-13.68	0.00	0.00	0.00
8,000.00	6.50	90.00	7,983.86	0.00	292.47	-14.24	0.00	0.00	0.00
8,100.00	6.50	90.00	8,083.22	0.00	303.79	-14.79	0.00	0.00	0.00
8,200.00	6.50	90.00	8,182.57	0.00	315.11	-15.34	0.00	0.00	0.00
8,300.00	6.50	90.00	8,281.93	0.00	326.43	-15.89	0.00	0.00	0.00
8,333.33	6.50	90.00	8,315.05	0.00	330.20	-16.07	0.00	0.00	0.00
Drop									
8,400.00	6.50	90.00	8,381.29	0.00	337.75	-16.44	0.00	0.00	0.00

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Planning Report

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Project:	Lea County, NM (NAD-83)	MD Reference:	3716.5' GL + 25' RKB @ 3741.50usft (Original Well Elev)
Site:	Thistle Unit	North Reference:	Grid
Well:	124H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

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)
8,500.00	6.50	90.00	8,480.64	0.00	349.07	-16.99	0.00	0.00	0.00
8,540.33	6.50	90.00	8,520.72	0.00	353.64	-17.21	0.00	0.00	0.00
8,600.00	5.61	90.00	8,580.05	0.00	359.93	-17.52	1.50	-1.50	0.00
8,666.67	4.60	90.00	8,646.45	0.00	365.86	-17.81	1.50	-1.50	0.00
Hold									
8,700.00	4.10	90.00	8,679.69	0.00	368.39	-17.93	1.50	-1.50	0.00
8,800.00	2.60	90.00	8,779.52	0.00	374.24	-18.22	1.50	-1.50	0.00
8,893.54	1.20	90.00	8,873.00	0.00	377.35	-18.37	1.50	-1.50	0.00
Lwr Brushy Cyn									
8,900.00	1.10	90.00	8,879.46	0.00	377.48	-18.37	1.50	-1.50	0.00
8,973.67	0.00	0.00	8,953.12	0.00	378.19	-18.41	1.50	-1.50	0.00
9,000.00	0.00	0.00	8,979.46	0.00	378.19	-18.41	0.00	0.00	0.00
9,100.00	0.00	0.00	9,079.46	0.00	378.19	-18.41	0.00	0.00	0.00
9,130.54	0.00	0.00	9,110.00	0.00	378.19	-18.41	0.00	0.00	0.00
Bone Spring									
9,169.11	0.00	0.00	9,148.56	0.00	378.19	-18.41	0.00	0.00	0.00
KOP 10° DLS									
9,173.67	0.00	0.00	9,153.12	0.00	378.19	-18.41	0.00	0.00	0.00
9,200.00	2.63	182.80	9,179.45	-0.60	378.16	-17.80	10.00	10.00	0.00
9,250.00	7.63	182.80	9,229.23	-5.07	377.94	-13.33	10.00	10.00	0.00
9,273.04	9.94	182.80	9,252.00	-8.59	377.77	-9.81	10.00	10.00	0.00
Mid Leonard Top									
9,300.00	12.63	182.80	9,278.43	-13.85	377.51	-4.54	10.00	10.00	0.00
9,350.00	17.63	182.80	9,326.69	-26.89	376.88	8.51	10.00	10.00	0.00
9,400.00	22.63	182.80	9,373.62	-44.07	376.04	25.72	10.00	10.00	0.00
9,450.00	27.63	182.80	9,418.87	-65.28	375.00	46.95	10.00	10.00	0.00
9,500.00	32.63	182.80	9,462.10	-90.34	373.78	72.04	10.00	10.00	0.00
9,550.00	37.63	182.80	9,502.97	-119.07	372.37	100.80	10.00	10.00	0.00
9,600.00	42.63	182.80	9,541.19	-151.25	370.80	133.02	10.00	10.00	0.00
9,650.00	47.63	182.80	9,576.45	-186.63	369.07	168.45	10.00	10.00	0.00
9,700.00	52.63	182.80	9,608.49	-224.95	367.20	206.81	10.00	10.00	0.00
9,750.00	57.63	182.80	9,637.07	-265.92	365.20	247.82	10.00	10.00	0.00
9,800.00	62.63	182.80	9,661.96	-309.21	363.09	291.17	10.00	10.00	0.00
9,827.48	65.38	182.80	9,674.00	-333.88	361.88	315.87	10.00	10.00	0.00
Leonard B									
9,850.00	67.63	182.80	9,682.98	-354.51	360.88	336.52	10.00	10.00	0.00
9,900.00	72.63	182.80	9,699.96	-401.46	358.58	383.53	10.00	10.00	0.00
9,950.00	77.63	182.80	9,712.79	-449.71	356.23	431.84	10.00	10.00	0.00
10,000.00	82.63	182.80	9,721.35	-498.90	353.82	481.09	10.00	10.00	0.00
10,050.00	87.63	182.80	9,725.59	-548.64	351.39	530.89	10.00	10.00	0.00
10,069.11	89.54	182.80	9,726.06	-567.72	350.46	549.99	10.00	10.00	0.00
LP									
10,073.67	90.00	182.80	9,726.08	-572.28	350.24	554.56	10.00	10.00	0.00
10,100.00	90.00	182.80	9,726.08	-598.58	348.96	580.88	0.00	0.00	0.00
10,200.00	90.00	182.80	9,726.08	-698.46	344.08	680.88	0.00	0.00	0.00
10,300.00	90.00	182.80	9,726.08	-798.34	339.20	780.88	0.00	0.00	0.00
10,400.00	90.00	182.80	9,726.08	-898.22	334.32	880.88	0.00	0.00	0.00
10,500.00	90.00	182.80	9,726.08	-998.10	329.44	980.88	0.00	0.00	0.00
10,600.00	90.00	182.80	9,726.07	-1,097.98	324.57	1,080.88	0.00	0.00	0.00
10,700.00	90.00	182.80	9,726.07	-1,197.86	319.69	1,180.88	0.00	0.00	0.00
10,800.00	90.00	182.80	9,726.07	-1,297.74	314.81	1,280.88	0.00	0.00	0.00

LEAM Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 124H
Company:	DEVON ENERGY	TVD Reference:	3716.5' GL + 25' RKB @ 3741.50usft (Original Well Elev)
Project:	Lea County, NM (NAD-83)	MD Reference:	3716.5' GL + 25' RKB @ 3741.50usft (Original Well Elev)
Site:	Thistle Unit	North Reference:	Grid
Well:	124H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

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)	
10,900.00	90.00	182.80	9,726.07	-1,397.63	309.93	1,380.88	0.00	0.00	0.00	
11,000.00	90.00	182.80	9,726.07	-1,497.51	305.06	1,480.88	0.00	0.00	0.00	
11,100.00	90.00	182.80	9,726.07	-1,597.39	300.18	1,580.88	0.00	0.00	0.00	
11,200.00	90.00	182.80	9,726.07	-1,697.27	295.30	1,680.88	0.00	0.00	0.00	
11,300.00	90.00	182.80	9,726.07	-1,797.15	290.42	1,780.88	0.00	0.00	0.00	
11,400.00	90.00	182.80	9,726.07	-1,897.03	285.54	1,880.88	0.00	0.00	0.00	
11,500.00	90.00	182.80	9,726.06	-1,996.91	280.67	1,980.88	0.00	0.00	0.00	
11,600.00	90.00	182.80	9,726.06	-2,096.79	275.79	2,080.88	0.00	0.00	0.00	
11,700.00	90.00	182.80	9,726.06	-2,196.67	270.91	2,180.88	0.00	0.00	0.00	
11,800.00	90.00	182.80	9,726.06	-2,296.55	266.03	2,280.88	0.00	0.00	0.00	
11,900.00	90.00	182.80	9,726.06	-2,396.44	261.15	2,380.88	0.00	0.00	0.00	
12,000.00	90.00	182.80	9,726.06	-2,496.32	256.28	2,480.88	0.00	0.00	0.00	
12,100.00	90.00	182.80	9,726.06	-2,596.20	251.40	2,580.88	0.00	0.00	0.00	
12,200.00	90.00	182.80	9,726.06	-2,696.08	246.52	2,680.88	0.00	0.00	0.00	
12,300.00	90.00	182.80	9,726.06	-2,795.96	241.64	2,780.88	0.00	0.00	0.00	
12,400.00	90.00	182.80	9,726.05	-2,895.84	236.76	2,880.88	0.00	0.00	0.00	
12,500.00	90.00	182.80	9,726.05	-2,995.72	231.89	2,980.88	0.00	0.00	0.00	
12,600.00	90.00	182.80	9,726.05	-3,095.60	227.01	3,080.88	0.00	0.00	0.00	
12,700.00	90.00	182.80	9,726.05	-3,195.48	222.13	3,180.88	0.00	0.00	0.00	
12,800.00	90.00	182.80	9,726.05	-3,295.36	217.25	3,280.88	0.00	0.00	0.00	
12,900.00	90.00	182.80	9,726.05	-3,395.24	212.37	3,380.88	0.00	0.00	0.00	
13,000.00	90.00	182.80	9,726.05	-3,495.13	207.50	3,480.88	0.00	0.00	0.00	
13,100.00	90.00	182.80	9,726.05	-3,595.01	202.62	3,580.88	0.00	0.00	0.00	
13,200.00	90.00	182.80	9,726.04	-3,694.89	197.74	3,680.88	0.00	0.00	0.00	
13,300.00	90.00	182.80	9,726.04	-3,794.77	192.86	3,780.88	0.00	0.00	0.00	
13,400.00	90.00	182.80	9,726.04	-3,894.65	187.99	3,880.88	0.00	0.00	0.00	
13,500.00	90.00	182.80	9,726.04	-3,994.53	183.11	3,980.88	0.00	0.00	0.00	
13,600.00	90.00	182.80	9,726.04	-4,094.41	178.23	4,080.88	0.00	0.00	0.00	
13,700.00	90.00	182.80	9,726.04	-4,194.29	173.35	4,180.88	0.00	0.00	0.00	
13,800.00	90.00	182.80	9,726.04	-4,294.17	168.47	4,280.88	0.00	0.00	0.00	
13,900.00	90.00	182.80	9,726.04	-4,394.05	163.60	4,380.88	0.00	0.00	0.00	
14,000.00	90.00	182.80	9,726.04	-4,493.94	158.72	4,480.88	0.00	0.00	0.00	
14,100.00	90.00	182.80	9,726.03	-4,593.82	153.84	4,580.88	0.00	0.00	0.00	
14,200.00	90.00	182.80	9,726.03	-4,693.70	148.96	4,680.88	0.00	0.00	0.00	
14,300.00	90.00	182.80	9,726.03	-4,793.58	144.08	4,780.88	0.00	0.00	0.00	
14,400.00	90.00	182.80	9,726.03	-4,893.46	139.21	4,880.88	0.00	0.00	0.00	
14,500.00	90.00	182.80	9,726.03	-4,993.34	134.33	4,980.88	0.00	0.00	0.00	
14,600.00	90.00	182.80	9,726.03	-5,093.22	129.45	5,080.88	0.00	0.00	0.00	
14,700.00	90.00	182.80	9,726.03	-5,193.10	124.57	5,180.88	0.00	0.00	0.00	
14,800.00	90.00	182.80	9,726.03	-5,292.98	119.69	5,280.88	0.00	0.00	0.00	
14,900.00	90.00	182.80	9,726.03	-5,392.86	114.82	5,380.88	0.00	0.00	0.00	
15,000.00	90.00	182.80	9,726.02	-5,492.74	109.94	5,480.88	0.00	0.00	0.00	
15,100.00	90.00	182.80	9,726.02	-5,592.63	105.06	5,580.88	0.00	0.00	0.00	
15,200.00	90.00	182.80	9,726.02	-5,692.51	100.18	5,680.88	0.00	0.00	0.00	
15,300.00	90.00	182.80	9,726.02	-5,792.39	95.30	5,780.88	0.00	0.00	0.00	
15,400.00	90.00	182.80	9,726.02	-5,892.27	90.43	5,880.88	0.00	0.00	0.00	
15,500.00	90.00	182.80	9,726.02	-5,992.15	85.55	5,980.88	0.00	0.00	0.00	
15,600.00	90.00	182.80	9,726.02	-6,092.03	80.67	6,080.88	0.00	0.00	0.00	
15,700.00	90.00	182.80	9,726.02	-6,191.91	75.79	6,180.88	0.00	0.00	0.00	
15,800.00	90.00	182.80	9,726.02	-6,291.79	70.92	6,280.88	0.00	0.00	0.00	
15,900.00	90.00	182.80	9,726.01	-6,391.67	66.04	6,380.88	0.00	0.00	0.00	
16,000.00	90.00	182.80	9,726.01	-6,491.55	61.16	6,480.88	0.00	0.00	0.00	

LEAM Drilling Systems LLC
Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 124H
Company:	DEVON ENERGY	TVD Reference:	3716.5' GL + 25' RKB @ 3741.50usft (Original Well Elev)
Project:	Lea County, NM (NAD-83)	MD Reference:	3716.5' GL + 25' RKB @ 3741.50usft (Original Well Elev)
Site:	Thistle Unit	North Reference:	Grid
Well:	124H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

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)
16,100.00	90.00	182.80	9,726.01	-6,591.44	56.28	6,580.88	0.00	0.00	0.00
16,200.00	90.00	182.80	9,726.01	-6,691.32	51.40	6,680.88	0.00	0.00	0.00
16,300.00	90.00	182.80	9,726.01	-6,791.20	46.53	6,780.88	0.00	0.00	0.00
16,400.00	90.00	182.80	9,726.01	-6,891.08	41.65	6,880.88	0.00	0.00	0.00
16,500.00	90.00	182.80	9,726.01	-6,990.96	36.77	6,980.88	0.00	0.00	0.00
16,600.00	90.00	182.80	9,726.01	-7,090.84	31.89	7,080.88	0.00	0.00	0.00
16,700.00	90.00	182.80	9,726.01	-7,190.72	27.01	7,180.88	0.00	0.00	0.00
16,800.00	90.00	182.80	9,726.00	-7,290.60	22.14	7,280.88	0.00	0.00	0.00
16,900.00	90.00	182.80	9,726.00	-7,390.48	17.26	7,380.88	0.00	0.00	0.00
17,000.00	90.00	182.80	9,726.00	-7,490.36	12.38	7,480.88	0.00	0.00	0.00
17,100.00	90.00	182.80	9,726.00	-7,590.25	7.50	7,580.88	0.00	0.00	0.00
17,129.08	90.00	182.80	9,726.00	-7,619.29	6.08	7,609.96	0.00	0.00	0.00
TD									
17,133.67	90.00	182.80	9,726.00	-7,623.87	5.86	7,614.55	0.00	0.00	0.00
PBHL (TU 124H)									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
SHL (TU 124H)	0.00	0.00	0.00	0.00	0.00	472,548.78	777,982.70	32° 17' 48.433 N	103° 34' 2.874 W
- plan hits target center									
- Point									
PBHL (TU 124H)	0.00	0.00	9,726.00	-7,623.87	5.86	464,924.91	777,988.56	32° 16' 32.994 N	103° 34' 3.439 W
- plan hits target center									
- Point									

Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,361.00	1,361.00	Rustler		0.00	
1,621.00	1,621.00	Top Salt		0.00	
4,944.00	4,944.00	Base Salt		0.00	
5,216.00	5,216.00	Delaware		0.00	
6,179.44	6,175.00	Cherry Canyon		0.00	
8,893.54	8,873.00	Lwr Brushy Cyn		0.00	
9,130.54	9,110.00	Bone Spring		0.00	
9,273.04	9,252.00	Mid Leonard Top		0.00	
9,827.48	9,674.00	Leonard B		0.00	

LEAM Drilling Systems LLC

Planning Report

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Project:	Lea County, NM (NAD-83)	MD Reference:	3716.5' GL + 25' RKB @ 3741.50usft (Original Well Elev)
Site:	Thistle Unit	North Reference:	Grid
Well:	124H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
4,000.00	4,000.00	0.00	0.00	Nudge
4,333.33	4,332.91	0.00	14.54	Hold
8,333.33	8,317.69	0.00	363.16	Drop
8,666.67	8,650.60	0.00	377.69	Hold
9,169.11	9,153.04	0.00	377.69	KOP 10° DLS
10,069.11	9,726.00	-572.28	349.78	LP
17,129.08	9,726.00	-7,623.87	5.86	TD