

HOBBS CCD

APR 29 2016

RECEIVED

DEVON ENERGY

Lea County, NM (NAD-83)

Bell Lake 24 Fed

5H

OH

Plan: Plan #1

Standard Planning Report

16 September, 2015

MAY 03 2016

LEAM Drilling Systems LLC

Planning Report

Database:	EDM:5000.1 Single User Db	Local Co-ordinate Reference:	Well: 5H
Company:	DEVON ENERGY	TVD Reference:	3580.6' GL + 25' RKB @ 3605.60usft
Project:	Lea County, NM (NAD-83)	MD Reference:	3580.6' GL + 25' RKB @ 3605.60usft
Site:	Bell Lake 24 Fed	North Reference:	Grid
Well:	5H	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:	Bell Lake 24 Fed		
Site Position:		Northing:	435,921.97 usft
From:	Map	Easting:	760,172.94 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 11' 47.212 N
		Longitude:	103° 37' 33.170 W
		Grid Convergence:	0.38 °

Well:	5H					
Well Position	+N/-S	156.03 usft	Northing:	436,078.00 usft	Latitude:	32° 11' 48.963 N
	+E/-W	-3,201.15 usft	Easting:	756,971.79 usft	Longitude:	103° 38' 10.412 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	3,605.60 usft	Ground Level:	3,580.60 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2015	8/26/2015	7.28	60.10	48,176

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	359.74

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	
9,237.04	0.00	0.00	9,237.04	0.00	0.00	0.00	0.00	0.00	0.00	
10,135.64	89.86	9.38	9,810.00	563.92	93.15	10.00	10.00	0.00	9.38	
10,778.18	89.86	359.74	9,811.58	1,203.67	144.19	1.50	0.00	-1.50	-90.02	
14,170.93	89.86	359.74	9,820.00	4,596.37	128.90	0.00	0.00	0.00	0.00	PBHL (BL24F 5H)

LEAM Drilling Systems LLC

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Site:	Bell Lake 24 Fed	North Reference:	Grid
Well:	5H	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 (BL24F 5H)									
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
1,140.00	0.00	0.00	1,140.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler									
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
1,465.00	0.00	0.00	1,465.00	0.00	0.00	0.00	0.00	0.00	0.00
Top Salt									
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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Well:	5H	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)
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
4,940.00	0.00	0.00	4,940.00	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
5,042.00	0.00	0.00	5,042.00	0.00	0.00	0.00	0.00	0.00	0.00
Delaware									
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
5,900.00	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
6,014.00	0.00	0.00	6,014.00	0.00	0.00	0.00	0.00	0.00	0.00
Cherry Canyon									
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
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
7,476.00	0.00	0.00	7,476.00	0.00	0.00	0.00	0.00	0.00	0.00
Brushy Canyon									
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
8,500.00	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
8,635.00	0.00	0.00	8,635.00	0.00	0.00	0.00	0.00	0.00	0.00
Madera									
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
9,045.00	0.00	0.00	9,045.00	0.00	0.00	0.00	0.00	0.00	0.00

LEAM Drilling Systems LLC

Planning Report

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Company:	DEVON ENERGY	TVD Reference:	3580.6' GL + 25' RKB @ 3605.60usft
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Site:	Bell Lake 24' Fed	North Reference:	Grid
Well:	5H	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)
Bone Spring									
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
9,230.00	0.00	0.00	9,230.00	0.00	0.00	0.00	0.00	0.00	0.00
Upr Leonard									
9,237.04	0.00	0.00	9,237.04	0.00	0.00	0.00	0.00	0.00	0.00
KOP 10° DLS									
9,250.00	1.30	9.38	9,250.00	0.14	0.02	0.14	10.00	10.00	0.00
9,300.00	6.30	9.38	9,299.87	3.41	0.56	3.41	10.00	10.00	0.00
9,350.00	11.30	9.38	9,349.27	10.95	1.81	10.94	10.00	10.00	0.00
9,400.00	16.30	9.38	9,397.81	22.71	3.75	22.69	10.00	10.00	0.00
9,450.00	21.30	9.38	9,445.13	38.60	6.38	38.57	10.00	10.00	0.00
9,466.05	22.90	9.38	9,460.00	44.56	7.36	44.52	10.00	10.00	0.00
Base Upr Leonard									
9,500.00	26.30	9.38	9,490.87	58.50	9.66	58.45	10.00	10.00	0.00
9,550.00	31.30	9.38	9,534.67	82.25	13.59	82.19	10.00	10.00	0.00
9,556.26	31.92	9.38	9,540.00	85.49	14.12	85.43	10.00	10.00	0.00
Mid Leonard									
9,600.00	36.30	9.38	9,576.21	109.68	18.12	109.60	10.00	10.00	0.00
9,650.00	41.30	9.38	9,615.16	140.58	23.22	140.48	10.00	10.00	0.00
9,700.00	46.30	9.38	9,651.24	174.71	28.86	174.58	10.00	10.00	0.00
9,750.00	51.30	9.38	9,684.17	211.82	34.99	211.66	10.00	10.00	0.00
9,800.00	56.30	9.38	9,713.69	251.61	41.56	251.42	10.00	10.00	0.00
9,850.00	61.30	9.38	9,739.59	293.79	48.53	293.57	10.00	10.00	0.00
9,900.00	66.30	9.38	9,761.66	338.04	55.84	337.78	10.00	10.00	0.00
9,935.75	69.87	9.38	9,775.00	370.75	61.24	370.47	10.00	10.00	0.00
Base Mid Leonard									
9,950.00	71.30	9.38	9,779.74	384.02	63.44	383.73	10.00	10.00	0.00
10,000.00	76.30	9.38	9,793.69	431.37	71.26	431.05	10.00	10.00	0.00
10,050.00	81.30	9.38	9,803.40	479.75	79.25	479.39	10.00	10.00	0.00
10,100.00	86.30	9.38	9,808.80	528.78	87.35	528.38	10.00	10.00	0.00
10,135.64	89.86	9.38	9,810.00	563.92	93.15	563.49	10.00	10.00	0.00
LP / Turn									
10,200.00	89.86	8.41	9,810.15	627.50	103.11	627.03	1.50	0.00	-1.50
10,300.00	89.86	6.91	9,810.40	726.60	116.44	726.07	1.50	0.00	-1.50
10,400.00	89.86	5.41	9,810.65	826.02	127.18	825.44	1.50	0.00	-1.50
10,500.00	89.86	3.91	9,810.89	925.69	135.31	925.06	1.50	0.00	-1.50
10,600.00	89.86	2.41	9,811.14	1,025.53	140.83	1,024.88	1.50	0.00	-1.50
10,700.00	89.86	0.91	9,811.39	1,125.49	143.74	1,124.82	1.50	0.00	-1.50
10,778.18	89.86	359.74	9,811.58	1,203.66	144.19	1,203.00	1.50	0.00	-1.50
Hold									
10,800.00	89.86	359.74	9,811.64	1,225.48	144.09	1,224.82	0.00	0.00	0.00
10,900.00	89.86	359.74	9,811.88	1,325.48	143.64	1,324.82	0.00	0.00	0.00
11,000.00	89.86	359.74	9,812.13	1,425.48	143.19	1,424.82	0.00	0.00	0.00
11,100.00	89.86	359.74	9,812.38	1,525.48	142.74	1,524.82	0.00	0.00	0.00
11,200.00	89.86	359.74	9,812.63	1,625.48	142.29	1,624.82	0.00	0.00	0.00
11,300.00	89.86	359.74	9,812.88	1,725.48	141.84	1,724.82	0.00	0.00	0.00
11,400.00	89.86	359.74	9,813.13	1,825.48	141.39	1,824.82	0.00	0.00	0.00
11,500.00	89.86	359.74	9,813.37	1,925.47	140.93	1,924.82	0.00	0.00	0.00
11,600.00	89.86	359.74	9,813.62	2,025.47	140.48	2,024.81	0.00	0.00	0.00
11,700.00	89.86	359.74	9,813.87	2,125.47	140.03	2,124.81	0.00	0.00	0.00
11,800.00	89.86	359.74	9,814.12	2,225.47	139.58	2,224.81	0.00	0.00	0.00
11,900.00	89.86	359.74	9,814.37	2,325.47	139.13	2,324.81	0.00	0.00	0.00

LEAM Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 5H
Company:	DEVON ENERGY	TVD Reference:	3580.6' GL + 25' RKB @ 3605.60usft
Project:	Lea County NM (NAD-83)	MD Reference:	3580.6' GL + 25' RKB @ 3605.60usft
Site:	Bell Lake 24 Fed	North Reference:	Grid
Well:	5H	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)
12,000.00	89.86	359.74	9,814.61	2,425.47	138.68	2,424.81	0.00	0.00	0.00
12,100.00	89.86	359.74	9,814.86	2,525.47	138.23	2,524.81	0.00	0.00	0.00
12,200.00	89.86	359.74	9,815.11	2,625.47	137.78	2,624.81	0.00	0.00	0.00
12,300.00	89.86	359.74	9,815.36	2,725.46	137.33	2,724.81	0.00	0.00	0.00
12,400.00	89.86	359.74	9,815.61	2,825.46	136.88	2,824.81	0.00	0.00	0.00
12,500.00	89.86	359.74	9,815.85	2,925.46	136.43	2,924.81	0.00	0.00	0.00
12,600.00	89.86	359.74	9,816.10	3,025.46	135.98	3,024.81	0.00	0.00	0.00
12,700.00	89.86	359.74	9,816.35	3,125.46	135.53	3,124.81	0.00	0.00	0.00
12,800.00	89.86	359.74	9,816.60	3,225.46	135.08	3,224.81	0.00	0.00	0.00
12,900.00	89.86	359.74	9,816.85	3,325.46	134.63	3,324.81	0.00	0.00	0.00
13,000.00	89.86	359.74	9,817.09	3,425.45	134.18	3,424.81	0.00	0.00	0.00
13,100.00	89.86	359.74	9,817.34	3,525.45	133.73	3,524.81	0.00	0.00	0.00
13,200.00	89.86	359.74	9,817.59	3,625.45	133.27	3,624.81	0.00	0.00	0.00
13,300.00	89.86	359.74	9,817.84	3,725.45	132.82	3,724.81	0.00	0.00	0.00
13,400.00	89.86	359.74	9,818.09	3,825.45	132.37	3,824.81	0.00	0.00	0.00
13,500.00	89.86	359.74	9,818.34	3,925.45	131.92	3,924.81	0.00	0.00	0.00
13,600.00	89.86	359.74	9,818.58	4,025.45	131.47	4,024.81	0.00	0.00	0.00
13,700.00	89.86	359.74	9,818.83	4,125.45	131.02	4,124.81	0.00	0.00	0.00
13,800.00	89.86	359.74	9,819.08	4,225.44	130.57	4,224.81	0.00	0.00	0.00
13,900.00	89.86	359.74	9,819.33	4,325.44	130.12	4,324.81	0.00	0.00	0.00
14,000.00	89.86	359.74	9,819.58	4,425.44	129.67	4,424.81	0.00	0.00	0.00
14,100.00	89.86	359.74	9,819.82	4,525.44	129.22	4,524.81	0.00	0.00	0.00
14,170.93	89.86	359.74	9,820.00	4,596.37	128.90	4,595.74	0.00	0.00	0.00
TD - PBHL (BL24F 5H)									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SHL (BL24F 5H)	0.00	0.00	0.00	0.00	0.00	436,078.00	756,971.79	32° 11' 48.963 N	103° 38' 10.412 W
- hit/miss target									
- Shape									
- Point									
PBHL (BL24F 5H)	0.00	0.00	9,820.00	4,596.37	128.90	440,674.37	757,100.69	32° 12' 34.438 N	103° 38' 8.564 W
- plan hits target center									
- Point									

LEAM Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 5H
Company:	DEVON ENERGY	TVD Reference:	3580.6' GL + 25' RKB @ 3605.60usft
Project:	Lea County, NM (NAD-83)	MD Reference:	3580.6' GL + 25' RKB @ 3605.60usft
Site:	Bell Lake 24 Fed	North Reference:	Grid
Well:	5H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,140.00	1,140.00	Rustler		0.00	
1,465.00	1,465.00	Top Salt		0.00	
4,940.00	4,940.00	Base Salt		0.00	
5,042.00	5,042.00	Delaware		0.00	
6,014.00	6,014.00	Cherry Canyon		0.00	
7,476.00	7,476.00	Brushy Canyon		0.00	
8,635.00	8,635.00	Madera		0.00	
9,045.00	9,045.00	Bone Spring		0.00	
9,230.00	9,230.00	Upr Leonard		0.00	
9,466.05	9,460.00	Base Upr Leonard		0.00	
9,556.26	9,540.00	Mid Leonard		0.00	
9,935.75	9,775.00	Base Mid Leonard		0.00	

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N-S (usft)	+E-W (usft)		
9,237.04	9,237.04	0.00	0.00	KOP 10° DLS	
10,135.64	9,810.00	563.92	93.15	LP / Turn	
10,778.18	9,811.58	1,203.66	144.19	Hold	
14,170.93	9,820.00	4,596.37	128.90	TD	