

HCD

APR 29 2016

RECEIVED

DEVON ENERGY

Lea County, NM (NAD-83)

Bell Lake 24 Fed

9H

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 9H
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:	9H	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	9H					
Well Position	+N/-S	105.99 usft	Northing:	436,027.96 usft	Latitude:	32° 11' 48.468 N
	+E/-W	-3,200.95 usft	Easting:	756,971.99 usft	Longitude:	103° 38' 10.413 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	3,606.10 usft	Ground Level:	3,581.10 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2015	8/3/2015	7.29	60.10	48,182

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	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(usft)	(usft)	Rate	Rate	Rate	(°)	
(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	
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,433.33	5.00	142.50	5,432.91	-11.53	8.85	1.50	1.50	0.00	142.50	
7,933.33	5.00	142.50	7,923.40	-184.39	141.49	0.00	0.00	0.00	0.00	
8,266.67	0.00	0.00	8,256.31	-195.93	150.34	1.50	-1.50	0.00	180.00	
9,512.17	0.00	0.00	9,501.81	-195.93	150.34	0.00	0.00	0.00	0.00	
10,413.48	90.13	359.74	10,074.76	378.34	147.77	10.00	10.00	-0.03	359.74	
14,681.61	90.13	359.74	10,065.00	4,646.41	128.70	0.00	0.00	0.00	0.00	PBHL (BL24F 9H)

LEAM Drilling Systems LLC

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Site:	Bell Lake 24 Fed	North Reference:	Grid
Well:	9H	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 9H)										
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	
1,175.00	0.00	0.00	1,175.00	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	
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
Top Salt										
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	
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00	

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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)
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,975.00	0.00	0.00	4,975.00	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
5,077.00	0.00	0.00	5,077.00	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
Nudge									
5,200.00	1.50	142.50	5,199.99	-1.04	0.80	-1.04	1.50	1.50	0.00
5,300.00	3.00	142.50	5,299.91	-4.15	3.19	-4.17	1.50	1.50	0.00
5,400.00	4.50	142.50	5,399.69	-9.34	7.17	-9.37	1.50	1.50	0.00
5,433.33	5.00	142.50	5,432.91	-11.53	8.85	-11.57	1.50	1.50	0.00
Hold									
5,500.00	5.00	142.50	5,499.32	-16.14	12.39	-16.20	0.00	0.00	0.00
5,600.00	5.00	142.50	5,598.94	-23.06	17.69	-23.14	0.00	0.00	0.00
5,700.00	5.00	142.50	5,698.56	-29.97	23.00	-30.07	0.00	0.00	0.00
5,800.00	5.00	142.50	5,798.18	-36.88	28.30	-37.01	0.00	0.00	0.00
5,900.00	5.00	142.50	5,897.80	-43.80	33.61	-43.95	0.00	0.00	0.00
6,000.00	5.00	142.50	5,997.42	-50.71	38.91	-50.89	0.00	0.00	0.00
6,051.78	5.00	142.50	6,049.00	-54.29	41.66	-54.48	0.00	0.00	0.00
Cherry Canyon									
6,100.00	5.00	142.50	6,097.04	-57.63	44.22	-57.83	0.00	0.00	0.00
6,200.00	5.00	142.50	6,196.66	-64.54	49.53	-64.77	0.00	0.00	0.00
6,300.00	5.00	142.50	6,296.28	-71.46	54.83	-71.71	0.00	0.00	0.00
6,400.00	5.00	142.50	6,395.90	-78.37	60.14	-78.64	0.00	0.00	0.00
6,500.00	5.00	142.50	6,495.52	-85.29	65.44	-85.58	0.00	0.00	0.00
6,600.00	5.00	142.50	6,595.14	-92.20	70.75	-92.52	0.00	0.00	0.00
6,700.00	5.00	142.50	6,694.76	-99.12	76.05	-99.46	0.00	0.00	0.00
6,800.00	5.00	142.50	6,794.38	-106.03	81.36	-106.40	0.00	0.00	0.00
6,900.00	5.00	142.50	6,894.00	-112.94	86.67	-113.34	0.00	0.00	0.00
7,000.00	5.00	142.50	6,993.62	-119.86	91.97	-120.28	0.00	0.00	0.00
7,100.00	5.00	142.50	7,093.24	-126.77	97.28	-127.21	0.00	0.00	0.00
7,200.00	5.00	142.50	7,192.85	-133.69	102.58	-134.15	0.00	0.00	0.00
7,300.00	5.00	142.50	7,292.47	-140.60	107.89	-141.09	0.00	0.00	0.00
7,400.00	5.00	142.50	7,392.09	-147.52	113.19	-148.03	0.00	0.00	0.00
7,500.00	5.00	142.50	7,491.71	-154.43	118.50	-154.97	0.00	0.00	0.00
7,519.36	5.00	142.50	7,511.00	-155.77	119.53	-156.31	0.00	0.00	0.00
Brushy Canyon									
7,600.00	5.00	142.50	7,591.33	-161.35	123.81	-161.91	0.00	0.00	0.00
7,700.00	5.00	142.50	7,690.95	-168.26	129.11	-168.85	0.00	0.00	0.00
7,800.00	5.00	142.50	7,790.57	-175.18	134.42	-175.78	0.00	0.00	0.00
7,900.00	5.00	142.50	7,890.19	-182.09	139.72	-182.72	0.00	0.00	0.00
7,933.33	5.00	142.50	7,923.40	-184.39	141.49	-185.03	0.00	0.00	0.00
Drop									
8,000.00	4.00	142.50	7,989.86	-188.54	144.68	-189.20	1.50	-1.50	0.00
8,100.00	2.50	142.50	8,089.69	-193.04	148.13	-193.71	1.50	-1.50	0.00
8,200.00	1.00	142.50	8,189.64	-195.46	149.99	-196.14	1.50	-1.50	0.00
8,266.67	0.00	0.00	8,256.31	-195.93	150.34	-196.61	1.50	-1.50	0.00
Hold									
8,300.00	0.00	0.00	8,289.64	-195.93	150.34	-196.61	0.00	0.00	0.00
8,400.00	0.00	0.00	8,389.64	-195.93	150.34	-196.61	0.00	0.00	0.00
8,500.00	0.00	0.00	8,489.64	-195.93	150.34	-196.61	0.00	0.00	0.00
8,600.00	0.00	0.00	8,589.64	-195.93	150.34	-196.61	0.00	0.00	0.00

LEAM Drilling Systems LLC

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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)	
8,680.36	0.00	0.00	8,670.00	-195.93	150.34	-196.61	0.00	0.00	0.00	
Madera										
8,700.00	0.00	0.00	8,689.64	-195.93	150.34	-196.61	0.00	0.00	0.00	
8,800.00	0.00	0.00	8,789.64	-195.93	150.34	-196.61	0.00	0.00	0.00	
8,900.00	0.00	0.00	8,889.64	-195.93	150.34	-196.61	0.00	0.00	0.00	
9,000.00	0.00	0.00	8,989.64	-195.93	150.34	-196.61	0.00	0.00	0.00	
9,090.36	0.00	0.00	9,080.00	-195.93	150.34	-196.61	0.00	0.00	0.00	
Bone Spring										
9,100.00	0.00	0.00	9,089.64	-195.93	150.34	-196.61	0.00	0.00	0.00	
9,200.00	0.00	0.00	9,189.64	-195.93	150.34	-196.61	0.00	0.00	0.00	
9,275.36	0.00	0.00	9,265.00	-195.93	150.34	-196.61	0.00	0.00	0.00	
Upr Leonard										
9,300.00	0.00	0.00	9,289.64	-195.93	150.34	-196.61	0.00	0.00	0.00	
9,400.00	0.00	0.00	9,389.64	-195.93	150.34	-196.61	0.00	0.00	0.00	
9,500.00	0.00	0.00	9,489.64	-195.93	150.34	-196.61	0.00	0.00	0.00	
9,505.36	0.00	0.00	9,495.00	-195.93	150.34	-196.61	0.00	0.00	0.00	
Base Upr Leonard										
9,512.17	0.00	0.00	9,501.81	-195.93	150.34	-196.61	0.00	0.00	0.00	
KOP 10° DLS										
9,550.00	3.78	359.74	9,539.61	-194.68	150.33	-195.36	10.00	10.00	0.00	
9,585.56	7.34	359.74	9,575.00	-191.23	150.32	-191.91	10.00	10.00	0.00	
Mid Leonard										
9,600.00	8.78	359.74	9,589.30	-189.21	150.31	-189.89	10.00	10.00	0.00	
9,650.00	13.78	359.74	9,638.32	-179.43	150.27	-180.11	10.00	10.00	0.00	
9,700.00	18.78	359.74	9,686.29	-165.41	150.20	-166.09	10.00	10.00	0.00	
9,750.00	23.78	359.74	9,732.87	-147.27	150.12	-147.95	10.00	10.00	0.00	
9,800.00	28.78	359.74	9,777.69	-125.14	150.02	-125.82	10.00	10.00	0.00	
9,837.57	32.54	359.74	9,810.00	-105.98	149.94	-106.66	10.00	10.00	0.00	
Base Mid Leonard										
9,850.00	33.78	359.74	9,820.40	-99.18	149.91	-99.86	10.00	10.00	0.00	
9,900.00	38.78	359.74	9,860.70	-69.60	149.78	-70.28	10.00	10.00	0.00	
9,950.00	43.78	359.74	9,898.26	-36.62	149.63	-37.30	10.00	10.00	0.00	
10,000.00	48.78	359.74	9,932.80	-0.50	149.47	-1.18	10.00	10.00	0.00	
10,050.00	53.78	359.74	9,964.06	38.50	149.29	37.82	10.00	10.00	0.00	
10,100.00	58.78	359.74	9,991.81	80.08	149.11	79.40	10.00	10.00	0.00	
10,150.00	63.78	359.74	10,015.83	123.91	148.91	123.24	10.00	10.00	0.00	
10,200.00	68.78	359.74	10,035.93	169.68	148.71	169.00	10.00	10.00	0.00	
10,250.00	73.78	359.74	10,051.97	217.02	148.49	216.34	10.00	10.00	0.00	
10,300.00	78.78	359.74	10,063.82	265.58	148.28	264.90	10.00	10.00	0.00	
10,350.00	83.78	359.74	10,071.40	314.98	148.06	314.31	10.00	10.00	0.00	
10,355.85	84.37	359.74	10,072.00	320.80	148.03	320.13	10.00	10.00	0.00	
1st BS SS										
10,400.00	88.78	359.74	10,074.64	364.86	147.83	364.19	10.00	10.00	0.00	
10,413.48	90.13	359.74	10,074.76	378.34	147.77	377.66	10.00	10.00	0.00	
LP										
10,500.00	90.13	359.74	10,074.57	464.86	147.39	464.18	0.00	0.00	0.00	
10,600.00	90.13	359.74	10,074.34	564.86	146.94	564.18	0.00	0.00	0.00	
10,700.00	90.13	359.74	10,074.11	664.86	146.49	664.18	0.00	0.00	0.00	
10,800.00	90.13	359.74	10,073.88	764.85	146.05	764.18	0.00	0.00	0.00	
10,900.00	90.13	359.74	10,073.65	864.85	145.60	864.18	0.00	0.00	0.00	
11,000.00	90.13	359.74	10,073.42	964.85	145.15	964.18	0.00	0.00	0.00	
11,100.00	90.13	359.74	10,073.19	1,064.85	144.71	1,064.18	0.00	0.00	0.00	
11,200.00	90.13	359.74	10,072.96	1,164.85	144.26	1,164.18	0.00	0.00	0.00	

LEAM Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 9H
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:	9H	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)	
11,300.00	90.13	359.74	10,072.74	1,264.85	143.81	1,264.18	0.00	0.00	0.00	
11,400.00	90.13	359.74	10,072.51	1,364.85	143.36	1,364.18	0.00	0.00	0.00	
11,500.00	90.13	359.74	10,072.28	1,464.85	142.92	1,464.18	0.00	0.00	0.00	
11,600.00	90.13	359.74	10,072.05	1,564.84	142.47	1,564.18	0.00	0.00	0.00	
11,700.00	90.13	359.74	10,071.82	1,664.84	142.02	1,664.18	0.00	0.00	0.00	
11,800.00	90.13	359.74	10,071.59	1,764.84	141.58	1,764.18	0.00	0.00	0.00	
11,900.00	90.13	359.74	10,071.36	1,864.84	141.13	1,864.18	0.00	0.00	0.00	
12,000.00	90.13	359.74	10,071.13	1,964.84	140.68	1,964.18	0.00	0.00	0.00	
12,100.00	90.13	359.74	10,070.91	2,064.84	140.24	2,064.18	0.00	0.00	0.00	
12,200.00	90.13	359.74	10,070.68	2,164.84	139.79	2,164.18	0.00	0.00	0.00	
12,300.00	90.13	359.74	10,070.45	2,264.84	139.34	2,264.18	0.00	0.00	0.00	
12,400.00	90.13	359.74	10,070.22	2,364.83	138.90	2,364.18	0.00	0.00	0.00	
12,500.00	90.13	359.74	10,069.99	2,464.83	138.45	2,464.18	0.00	0.00	0.00	
12,600.00	90.13	359.74	10,069.76	2,564.83	138.00	2,564.18	0.00	0.00	0.00	
12,700.00	90.13	359.74	10,069.53	2,664.83	137.56	2,664.18	0.00	0.00	0.00	
12,800.00	90.13	359.74	10,069.30	2,764.83	137.11	2,764.18	0.00	0.00	0.00	
12,900.00	90.13	359.74	10,069.08	2,864.83	136.66	2,864.18	0.00	0.00	0.00	
13,000.00	90.13	359.74	10,068.85	2,964.83	136.21	2,964.18	0.00	0.00	0.00	
13,100.00	90.13	359.74	10,068.62	3,064.83	135.77	3,064.18	0.00	0.00	0.00	
13,200.00	90.13	359.74	10,068.39	3,164.82	135.32	3,164.18	0.00	0.00	0.00	
13,300.00	90.13	359.74	10,068.16	3,264.82	134.87	3,264.18	0.00	0.00	0.00	
13,400.00	90.13	359.74	10,067.93	3,364.82	134.43	3,364.18	0.00	0.00	0.00	
13,500.00	90.13	359.74	10,067.70	3,464.82	133.98	3,464.18	0.00	0.00	0.00	
13,600.00	90.13	359.74	10,067.47	3,564.82	133.53	3,564.18	0.00	0.00	0.00	
13,700.00	90.13	359.74	10,067.25	3,664.82	133.09	3,664.18	0.00	0.00	0.00	
13,800.00	90.13	359.74	10,067.02	3,764.82	132.64	3,764.18	0.00	0.00	0.00	
13,900.00	90.13	359.74	10,066.79	3,864.82	132.19	3,864.18	0.00	0.00	0.00	
14,000.00	90.13	359.74	10,066.56	3,964.81	131.75	3,964.18	0.00	0.00	0.00	
14,100.00	90.13	359.74	10,066.33	4,064.81	131.30	4,064.18	0.00	0.00	0.00	
14,200.00	90.13	359.74	10,066.10	4,164.81	130.85	4,164.17	0.00	0.00	0.00	
14,300.00	90.13	359.74	10,065.87	4,264.81	130.41	4,264.17	0.00	0.00	0.00	
14,400.00	90.13	359.74	10,065.64	4,364.81	129.96	4,364.17	0.00	0.00	0.00	
14,500.00	90.13	359.74	10,065.42	4,464.81	129.51	4,464.17	0.00	0.00	0.00	
14,600.00	90.13	359.74	10,065.19	4,564.81	129.06	4,564.17	0.00	0.00	0.00	
14,681.60	90.13	359.74	10,065.00	4,646.41	128.70	4,645.77	0.00	0.00	0.00	
TD - PBHL (BL24F 9H)										

Design Targets										
Target Name	hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SHL (BL24F 9H)	- plan hits target center	0.00	0.00	0.00	0.00	0.00	436,027.96	756,971.99	32° 11' 48.468 N	103° 38' 10.413 W
	- Point									
PBHL (BL24F 9H)	- plan hits target center	0.00	0.00	10,065.00	4,646.41	128.70	440,674.37	757,100.69	32° 12' 34.438 N	103° 38' 8.564 W
	- Point									

LEAM Drilling Systems LLC

Planning Report

Database:	EDM:5000.1 Single User Db	Local Co-ordinate Reference:	Well 9H
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:	9H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,175.00	1,175.00	Rustler		0.00	
1,500.00	1,500.00	Top Salt		0.00	
4,975.00	4,975.00	Base Salt		0.00	
5,077.00	5,077.00	Delaware		0.00	
6,051.78	6,049.00	Cherry Canyon		0.00	
7,519.36	7,511.00	Brushy Canyon		0.00	
8,680.36	8,670.00	Madera		0.00	
9,090.36	9,080.00	Bone Spring		0.00	
9,275.36	9,265.00	Upr Leonard		0.00	
9,505.36	9,495.00	Base Upr Leonard		0.00	
9,585.56	9,575.00	Mid Leonard		0.00	
9,837.57	9,810.00	Base Mid Leonard		0.00	
10,355.85	10,072.00	1st BS SS		0.00	

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/S (usft)	+E/W (usft)	Comment	
5,100.00	5,100.00	0.00	0.00	Nudge	
5,433.33	5,432.91	-11.53	8.85	Hold	
7,933.33	7,923.40	-184.39	141.49	Drop	
8,266.67	8,256.31	-195.93	150.34	Hold	
9,512.17	9,501.81	-195.93	150.34	KOP 10° DLS	
10,413.48	10,074.76	378.34	147.77	LP	
14,681.60	10,065.00	4,646.41	128.70	TD	