

HOBBS OCD

APR 25 2016

RECEIVED

DEVON ENERGY

Lea County, NM (NAD-83)

Boundary Raider 6 Fed

1H

OH

Plan: Plan #1

Standard Planning Report

06 October, 2014

APR 25 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:	3534.1' GL + 25' RKB @ 3559.10usft
Project:	Lea County, NM (NAD-83)	MD Reference:	3534.1' GL + 25' RKB @ 3559.10usft
Site:	Boundary Raider 6 Fed	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:	Boundary Raider 6 Fed		
Site Position:		Northing:	482,803.39 usft
From:	Map	Easting:	735,151.61 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 19' 32.659 N
		Longitude:	103° 42' 21.166 W
		Grid Convergence:	0.34 °

Well:	1H: 2nd BS SS					
Well Position	+N/-S	-17.05 usft	Northing:	482,786.34 usft	Latitude:	32° 19' 32.574 N
	+E/-W	-1,449.61 usft	Easting:	733,702.00 usft	Longitude:	103° 42' 38.061 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	3,559.10 usft	Ground Level:	3,534.10 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2014	10/6/2014	7.42	60.17	48,289

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	355.81

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	
9,823.07	0.00	0.00	9,823.07	0.00	0.00	0.00	0.00	0.00	0.00	
10,728.84	90.58	355.81	10,396.00	577.17	-42.33	10.00	10.00	-0.46	355.81	
15,300.24	90.58	355.81	10,350.00	5,136.10	-376.67	0.00	0.00	0.00	0.00	PBHL (BR6F 1H)

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Site:	Boundary Raider 6 Fed	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 (BR&F 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
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
837.00	0.00	0.00	837.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler									
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
970.00	0.00	0.00	970.00	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
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
4,280.00	0.00	0.00	4,280.00	0.00	0.00	0.00	0.00	0.00	0.00
Base Salt									
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
4,580.00	0.00	0.00	4,580.00	0.00	0.00	0.00	0.00	0.00	0.00

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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)
Delaware									
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
5,300.00	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
5,658.00	0.00	0.00	5,658.00	0.00	0.00	0.00	0.00	0.00	0.00
Cherry Canyon									
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
6,700.00	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
7,065.00	0.00	0.00	7,065.00	0.00	0.00	0.00	0.00	0.00	0.00
Brushy Canyon									
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
8,435.00	0.00	0.00	8,435.00	0.00	0.00	0.00	0.00	0.00	0.00
1st BS LM									
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

LEAM Drilling Systems LLC

Planning Report

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Company:	DEVON ENERGY	TVD Reference:	3534.1' GL + 25' RKB @ 3559.10usft
Project:	Lea County, NM (NAD-83)	MD Reference:	3534.1' GL + 25' RKB @ 3559.10usft
Site:	Boundary Raider 6 Fed	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)
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
9,560.00	0.00	0.00	9,560.00	0.00	0.00	0.00	0.00	0.00	0.00
1st BS SS									
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
9,823.07	0.00	0.00	9,823.07	0.00	0.00	0.00	0.00	0.00	0.00
KOP: 10° DLS									
9,850.00	2.69	355.81	9,849.99	0.63	-0.05	0.63	10.00	10.00	0.00
9,900.00	7.69	355.81	9,899.77	5.14	-0.38	5.16	10.00	10.00	0.00
9,950.00	12.69	355.81	9,948.96	13.96	-1.02	14.00	10.00	10.00	0.00
10,000.00	17.69	355.81	9,997.20	27.03	-1.98	27.10	10.00	10.00	0.00
10,050.00	22.69	355.81	10,044.11	44.24	-3.24	44.36	10.00	10.00	0.00
10,100.00	27.69	355.81	10,089.34	65.46	-4.80	65.63	10.00	10.00	0.00
10,150.00	32.69	355.81	10,132.55	90.53	-6.64	90.77	10.00	10.00	0.00
10,200.00	37.69	355.81	10,173.39	119.26	-8.75	119.58	10.00	10.00	0.00
10,250.00	42.69	355.81	10,211.58	151.43	-11.11	151.84	10.00	10.00	0.00
10,300.00	47.69	355.81	10,246.80	186.80	-13.70	187.30	10.00	10.00	0.00
10,306.28	48.32	355.81	10,251.00	191.45	-14.04	191.96	10.00	10.00	0.00
2nd BS SS									
10,350.00	52.69	355.81	10,278.80	225.09	-16.51	225.70	10.00	10.00	0.00
10,400.00	57.69	355.81	10,307.33	266.02	-19.51	266.74	10.00	10.00	0.00
10,450.00	62.69	355.81	10,332.18	309.28	-22.68	310.11	10.00	10.00	0.00
10,500.00	67.69	355.81	10,353.15	354.53	-26.00	355.48	10.00	10.00	0.00
10,550.00	72.69	355.81	10,370.09	401.43	-29.44	402.51	10.00	10.00	0.00
10,600.00	77.69	355.81	10,382.86	449.62	-32.97	450.83	10.00	10.00	0.00
10,650.00	82.69	355.81	10,391.37	498.75	-36.58	500.09	10.00	10.00	0.00
10,700.00	87.69	355.81	10,395.56	548.42	-40.22	549.89	10.00	10.00	0.00
10,728.84	90.58	355.81	10,396.00	577.17	-42.33	578.72	10.00	10.00	0.00
LP									
10,800.00	90.58	355.81	10,395.28	648.14	-47.53	649.88	0.00	0.00	0.00
10,900.00	90.58	355.81	10,394.28	747.87	-54.85	749.88	0.00	0.00	0.00
11,000.00	90.58	355.81	10,393.27	847.60	-62.16	849.87	0.00	0.00	0.00
11,100.00	90.58	355.81	10,392.26	947.32	-69.47	949.87	0.00	0.00	0.00
11,200.00	90.58	355.81	10,391.26	1,047.05	-76.79	1,049.86	0.00	0.00	0.00
11,300.00	90.58	355.81	10,390.25	1,146.78	-84.10	1,149.86	0.00	0.00	0.00
11,400.00	90.58	355.81	10,389.25	1,246.51	-91.42	1,249.85	0.00	0.00	0.00
11,500.00	90.58	355.81	10,388.24	1,346.23	-98.73	1,349.85	0.00	0.00	0.00
11,600.00	90.58	355.81	10,387.23	1,445.96	-106.04	1,449.84	0.00	0.00	0.00
11,700.00	90.58	355.81	10,386.23	1,545.69	-113.36	1,549.84	0.00	0.00	0.00
11,800.00	90.58	355.81	10,385.22	1,645.41	-120.67	1,649.83	0.00	0.00	0.00
11,900.00	90.58	355.81	10,384.21	1,745.14	-127.98	1,749.83	0.00	0.00	0.00
12,000.00	90.58	355.81	10,383.21	1,844.87	-135.30	1,849.82	0.00	0.00	0.00
12,100.00	90.58	355.81	10,382.20	1,944.60	-142.61	1,949.82	0.00	0.00	0.00
12,200.00	90.58	355.81	10,381.20	2,044.32	-149.93	2,049.81	0.00	0.00	0.00
12,300.00	90.58	355.81	10,380.19	2,144.05	-157.24	2,149.81	0.00	0.00	0.00
12,400.00	90.58	355.81	10,379.18	2,243.78	-164.55	2,249.80	0.00	0.00	0.00
12,500.00	90.58	355.81	10,378.18	2,343.50	-171.87	2,349.80	0.00	0.00	0.00
12,600.00	90.58	355.81	10,377.17	2,443.23	-179.18	2,449.79	0.00	0.00	0.00
12,700.00	90.58	355.81	10,376.16	2,542.96	-186.49	2,549.79	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:	3534.1' GL + 25' RKB @ 3559.10usft
Project:	Lea County, NM (NAD-83)	MD Reference:	3534.1' GL + 25' RKB @ 3559.10usft
Site:	Boundary Raider 6 Fed	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)
12,800.00	90.58	355.81	10,375.16	2,642.69	-193.81	2,649.78	0.00	0.00	0.00
12,900.00	90.58	355.81	10,374.15	2,742.41	-201.12	2,749.78	0.00	0.00	0.00
13,000.00	90.58	355.81	10,373.15	2,842.14	-208.44	2,849.77	0.00	0.00	0.00
13,100.00	90.58	355.81	10,372.14	2,941.87	-215.75	2,949.77	0.00	0.00	0.00
13,200.00	90.58	355.81	10,371.13	3,041.59	-223.06	3,049.76	0.00	0.00	0.00
13,300.00	90.58	355.81	10,370.13	3,141.32	-230.38	3,149.76	0.00	0.00	0.00
13,400.00	90.58	355.81	10,369.12	3,241.05	-237.69	3,249.75	0.00	0.00	0.00
13,500.00	90.58	355.81	10,368.11	3,340.78	-245.00	3,349.75	0.00	0.00	0.00
13,600.00	90.58	355.81	10,367.11	3,440.50	-252.32	3,449.74	0.00	0.00	0.00
13,700.00	90.58	355.81	10,366.10	3,540.23	-259.63	3,549.74	0.00	0.00	0.00
13,800.00	90.58	355.81	10,365.10	3,639.96	-266.95	3,649.73	0.00	0.00	0.00
13,900.00	90.58	355.81	10,364.09	3,739.68	-274.26	3,749.73	0.00	0.00	0.00
14,000.00	90.58	355.81	10,363.08	3,839.41	-281.57	3,849.72	0.00	0.00	0.00
14,100.00	90.58	355.81	10,362.08	3,939.14	-288.89	3,949.72	0.00	0.00	0.00
14,200.00	90.58	355.81	10,361.07	4,038.87	-296.20	4,049.71	0.00	0.00	0.00
14,300.00	90.58	355.81	10,360.06	4,138.59	-303.52	4,149.71	0.00	0.00	0.00
14,400.00	90.58	355.81	10,359.06	4,238.32	-310.83	4,249.70	0.00	0.00	0.00
14,500.00	90.58	355.81	10,358.05	4,338.05	-318.14	4,349.70	0.00	0.00	0.00
14,600.00	90.58	355.81	10,357.05	4,437.77	-325.46	4,449.69	0.00	0.00	0.00
14,700.00	90.58	355.81	10,356.04	4,537.50	-332.77	4,549.69	0.00	0.00	0.00
14,800.00	90.58	355.81	10,355.03	4,637.23	-340.08	4,649.68	0.00	0.00	0.00
14,900.00	90.58	355.81	10,354.03	4,736.96	-347.40	4,749.68	0.00	0.00	0.00
15,000.00	90.58	355.81	10,353.02	4,836.68	-354.71	4,849.67	0.00	0.00	0.00
15,100.00	90.58	355.81	10,352.02	4,936.41	-362.03	4,949.67	0.00	0.00	0.00
15,200.00	90.58	355.81	10,351.01	5,036.14	-369.34	5,049.66	0.00	0.00	0.00
15,300.24	90.58	355.81	10,350.00	5,136.10	-376.67	5,149.89	0.00	0.00	0.00
TD - PBHL (BR6F 1H)									

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 (BR6F 1H)	0.00	0.00	0.00	0.00	0.00	482,786.34	733,702.00	32° 19' 32.574 N	103° 42' 38.061 W
- plan hits target center									
- Point									
PBHL (BR6F 1H)	0.00	0.00	10,350.00	5,136.10	-376.67	487,922.44	733,325.33	32° 20' 23.419 N	103° 42' 42.103 W
- plan hits target center									
- Point									

LEAM Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 1H
Company:	DEVON ENERGY	TVD Reference:	3534.1' GL + 25' RKB @ 3559.10usft
Project:	Lea County, NM (NAD-83)	MD Reference:	3534.1' GL + 25' RKB @ 3559.10usft
Site:	Boundary Raider 6 Fed	North Reference:	Grid
Well:	1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
837.00	837.00	Rustler		0.00		
970.00	970.00	Top Salt		0.00		
4,280.00	4,280.00	Base Salt		0.00		
4,580.00	4,580.00	Delaware		0.00		
5,658.00	5,658.00	Cherry Canyon		0.00		
7,065.00	7,065.00	Brushy Canyon		0.00		
8,435.00	8,435.00	1st BS LM		0.00		
9,560.00	9,560.00	1st BS SS		0.00		
10,306.28	10,251.00	2nd BS SS		0.00		

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N-S (usft)	+E-W (usft)		
9,823.07	9,823.07	0.00	0.00	KOP 10° DLS	
10,728.84	10,396.00	577.17	-42.33	LP	
15,300.24	10,350.00	5,136.10	-376.67	TD	