

HOBBS OCD

APR 27 2016

RECEIVED

DEVON ENERGY

Lea County, NM (NAD-83)

Paloma Blanco 19 Fed

1H

OH

Plan: Plan #1

Standard Planning Report

08 October, 2015

APR 28 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:	3541.3' GL + 25' RKB @ 3566.30usft
Project:	Lea County, NM (NAD-83)	MD Reference:	3541.3' GL + 25' RKB @ 3566.30usft
Site:	Paloma Blanco 19 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:	Paloma Blanco 19 Fed		
Site Position:		Northing:	473,378.43 usft
From:	Map	Easting:	793,711.93 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 17' 55.494 N
		Longitude:	103° 30' 59.556 W
		Grid Convergence:	0.44 °

Well:	1H				
Well Position	+N-S	0.00 usft	Northing:	473,378.43 usft	Latitude: 32° 17' 55.494 N
	+E-W	0.00 usft	Easting:	793,711.93 usft	Longitude: 103° 30' 59.556 W
Position Uncertainty	0.00 usft	Wellhead Elevation:	3,566.30 usft	Ground Level:	3,541.30 usft

Wellbore		OH			
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2015	7/28/2015	7.22	60.22	48,259

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	179.57

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	
9,930.05	0.00	0.00	9,930.05	0.00	0.00	0.00	0.00	0.00	0.00	
10,827.75	89.77	175.50	10,503.00	-568.90	44.77	10.00	10.00	0.00	175.50	
11,099.26	89.77	179.57	10,504.11	-840.10	56.44	1.50	0.00	1.50	90.08	
15,709.14	89.77	179.57	10,523.00	-5,449.81	90.82	0.00	0.00	0.00	0.00	PBHL (PB19F 1H)

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Site:	Paloma Blanco 19 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 (PB19F 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	
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	
1,064.00	0.00	0.00	1,064.00	0.00	0.00	0.00	0.00	0.00	0.00	
Rustler										
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	
1,570.00	0.00	0.00	1,570.00	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	

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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)	
4,800.00	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	
4,996.00	0.00	0.00	4,996.00	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	
5,043.00	0.00	0.00	5,043.00	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	
6,100.00	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	
7,250.00	0.00	0.00	7,250.00	0.00	0.00	0.00	0.00	0.00	0.00	
Brushy Canyon										
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	
8,434.00	0.00	0.00	8,434.00	0.00	0.00	0.00	0.00	0.00	0.00	
Lwr Brushy										
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	
8,606.00	0.00	0.00	8,606.00	0.00	0.00	0.00	0.00	0.00	0.00	
Bone Spring										
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	

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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)
9,200.00	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
9,600.00	0.00	0.00	9,600.00	0.00	0.00	0.00	0.00	0.00	0.00
9,673.00	0.00	0.00	9,673.00	0.00	0.00	0.00	0.00	0.00	0.00
1st BS SS									
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
9,900.00	0.00	0.00	9,900.00	0.00	0.00	0.00	0.00	0.00	0.00
9,930.05	0.00	0.00	9,930.05	0.00	0.00	0.00	0.00	0.00	0.00
KOP 10° DLS									
9,950.00	2.00	175.50	9,950.00	-0.35	0.03	0.35	10.00	10.00	0.00
10,000.00	7.00	175.50	9,999.83	-4.25	0.33	4.25	10.00	10.00	0.00
10,050.00	12.00	175.50	10,049.13	-12.47	0.98	12.48	10.00	10.00	0.00
10,100.00	17.00	175.50	10,097.52	-24.94	1.96	24.96	10.00	10.00	0.00
10,150.00	22.00	175.50	10,144.64	-41.57	3.27	41.60	10.00	10.00	0.00
10,200.00	27.00	175.50	10,190.12	-62.23	4.90	62.27	10.00	10.00	0.00
10,250.00	32.00	175.50	10,233.63	-86.77	6.83	86.82	10.00	10.00	0.00
10,253.98	32.39	175.50	10,237.00	-88.88	7.00	88.93	10.00	10.00	0.00
2nd BS SS									
10,300.00	37.00	175.50	10,274.82	-114.99	9.05	115.05	10.00	10.00	0.00
10,350.00	42.00	175.50	10,313.40	-146.68	11.54	146.76	10.00	10.00	0.00
10,400.00	47.00	175.50	10,349.05	-181.60	14.29	181.71	10.00	10.00	0.00
10,450.00	52.00	175.50	10,381.52	-219.49	17.27	219.62	10.00	10.00	0.00
10,500.00	57.00	175.50	10,410.55	-260.06	20.47	260.20	10.00	10.00	0.00
10,550.00	62.00	175.50	10,435.92	-302.99	23.85	303.16	10.00	10.00	0.00
10,600.00	67.00	175.50	10,457.44	-347.96	27.39	348.16	10.00	10.00	0.00
10,650.00	72.00	175.50	10,474.95	-394.64	31.06	394.86	10.00	10.00	0.00
10,700.00	77.00	175.50	10,488.31	-442.65	34.84	442.90	10.00	10.00	0.00
10,750.00	82.00	175.50	10,497.43	-491.65	38.69	491.92	10.00	10.00	0.00
10,800.00	87.00	175.50	10,502.22	-541.25	42.60	541.55	10.00	10.00	0.00
10,827.70	89.77	175.50	10,503.00	-568.85	44.77	569.17	10.00	10.00	0.00
Hold									
10,827.75	89.77	175.50	10,503.00	-568.90	44.77	569.22	10.00	10.00	0.00
LP / Turn									
10,900.00	89.77	176.58	10,503.29	-640.97	49.76	641.33	1.50	0.00	1.50
11,000.00	89.77	178.08	10,503.70	-740.86	54.41	741.25	1.50	0.00	1.50
11,099.26	89.77	179.57	10,504.11	-840.10	58.44	840.50	1.50	0.00	1.50
11,200.00	89.77	179.57	10,504.52	-940.83	57.19	941.24	0.00	0.00	0.00
11,300.00	89.77	179.57	10,504.93	-1,040.83	57.94	1,041.24	0.00	0.00	0.00
11,400.00	89.77	179.57	10,505.34	-1,140.83	58.68	1,141.24	0.00	0.00	0.00
11,500.00	89.77	179.57	10,505.75	-1,240.82	59.43	1,241.23	0.00	0.00	0.00
11,600.00	89.77	179.57	10,506.16	-1,340.82	60.18	1,341.23	0.00	0.00	0.00
11,700.00	89.77	179.57	10,506.57	-1,440.82	60.92	1,441.23	0.00	0.00	0.00
11,800.00	89.77	179.57	10,506.98	-1,540.81	61.67	1,541.23	0.00	0.00	0.00
11,900.00	89.77	179.57	10,507.39	-1,640.81	62.41	1,641.23	0.00	0.00	0.00
12,000.00	89.77	179.57	10,507.80	-1,740.81	63.16	1,741.23	0.00	0.00	0.00
12,100.00	89.77	179.57	10,508.21	-1,840.80	63.90	1,841.23	0.00	0.00	0.00
12,200.00	89.77	179.57	10,508.62	-1,940.80	64.65	1,941.23	0.00	0.00	0.00
12,300.00	89.77	179.57	10,509.03	-2,040.79	65.40	2,041.23	0.00	0.00	0.00
12,400.00	89.77	179.57	10,509.44	-2,140.79	66.14	2,141.23	0.00	0.00	0.00
12,500.00	89.77	179.57	10,509.85	-2,240.79	66.89	2,241.23	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:	3541.3' GL + 25' RKB @ 3566.30usft
Project:	Lea County, NM (NAD-83)	MD Reference:	3541.3' GL + 25' RKB @ 3566.30usft
Site:	Paloma Blanco 19 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)
12,600.00	89.77	179.57	10,510.26	-2,340.78	67.63	2,341.23	0.00	0.00	0.00
12,700.00	89.77	179.57	10,510.67	-2,440.78	68.38	2,441.22	0.00	0.00	0.00
12,800.00	89.77	179.57	10,511.08	-2,540.78	69.13	2,541.22	0.00	0.00	0.00
12,900.00	89.77	179.57	10,511.49	-2,640.77	69.87	2,641.22	0.00	0.00	0.00
13,000.00	89.77	179.57	10,511.90	-2,740.77	70.62	2,741.22	0.00	0.00	0.00
13,100.00	89.77	179.57	10,512.31	-2,840.77	71.36	2,841.22	0.00	0.00	0.00
13,200.00	89.77	179.57	10,512.72	-2,940.76	72.11	2,941.22	0.00	0.00	0.00
13,300.00	89.77	179.57	10,513.13	-3,040.76	72.85	3,041.22	0.00	0.00	0.00
13,400.00	89.77	179.57	10,513.54	-3,140.76	73.60	3,141.22	0.00	0.00	0.00
13,500.00	89.77	179.57	10,513.95	-3,240.75	74.35	3,241.22	0.00	0.00	0.00
13,600.00	89.77	179.57	10,514.36	-3,340.75	75.09	3,341.22	0.00	0.00	0.00
13,700.00	89.77	179.57	10,514.77	-3,440.74	75.84	3,441.22	0.00	0.00	0.00
13,800.00	89.77	179.57	10,515.18	-3,540.74	76.58	3,541.22	0.00	0.00	0.00
13,900.00	89.77	179.57	10,515.58	-3,640.74	77.33	3,641.21	0.00	0.00	0.00
14,000.00	89.77	179.57	10,515.99	-3,740.73	78.07	3,741.21	0.00	0.00	0.00
14,100.00	89.77	179.57	10,516.40	-3,840.73	78.82	3,841.21	0.00	0.00	0.00
14,200.00	89.77	179.57	10,516.81	-3,940.73	79.57	3,941.21	0.00	0.00	0.00
14,300.00	89.77	179.57	10,517.22	-4,040.72	80.31	4,041.21	0.00	0.00	0.00
14,400.00	89.77	179.57	10,517.63	-4,140.72	81.06	4,141.21	0.00	0.00	0.00
14,500.00	89.77	179.57	10,518.04	-4,240.72	81.80	4,241.21	0.00	0.00	0.00
14,600.00	89.77	179.57	10,518.45	-4,340.71	82.55	4,341.21	0.00	0.00	0.00
14,700.00	89.77	179.57	10,518.86	-4,440.71	83.29	4,441.21	0.00	0.00	0.00
14,800.00	89.77	179.57	10,519.27	-4,540.70	84.04	4,541.21	0.00	0.00	0.00
14,900.00	89.77	179.57	10,519.68	-4,640.70	84.79	4,641.21	0.00	0.00	0.00
15,000.00	89.77	179.57	10,520.09	-4,740.70	85.53	4,741.21	0.00	0.00	0.00
15,100.00	89.77	179.57	10,520.50	-4,840.69	86.28	4,841.20	0.00	0.00	0.00
15,200.00	89.77	179.57	10,520.91	-4,940.69	87.02	4,941.20	0.00	0.00	0.00
15,300.00	89.77	179.57	10,521.32	-5,040.69	87.77	5,041.20	0.00	0.00	0.00
15,400.00	89.77	179.57	10,521.73	-5,140.68	88.51	5,141.20	0.00	0.00	0.00
15,500.00	89.77	179.57	10,522.14	-5,240.68	89.26	5,241.20	0.00	0.00	0.00
15,600.00	89.77	179.57	10,522.55	-5,340.68	90.01	5,341.20	0.00	0.00	0.00
15,707.70	89.77	179.57	10,522.99	-5,448.37	90.81	5,448.90	0.00	0.00	0.00
TD									
15,709.14	89.77	179.57	10,523.00	-5,449.81	90.82	5,450.34	0.00	0.00	0.00
PBHL (PB19F 1H)									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SHL (PB19F 1H) - hit/miss target - Shape - Point	0.00	0.00	0.00	0.00	0.00	473,378.43	793,711.93	32° 17' 55.494 N	103° 30' 59.556 W
PBHL (PB19F 1H) - plan hits target center - Point	0.00	0.00	10,523.00	-5,449.81	90.82	467,928.62	793,802.75	32° 17' 1.561 N	103° 30' 58.982 W

LEAM Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 1H
Company:	DEVON ENERGY	TVD Reference:	3541.3' GL + 25' RKB @ 3566.30usft
Project:	Lea County, NM (NAD-83)	MD Reference:	3541.3' GL + 25' RKB @ 3566.30usft
Site:	Paloma Blanco 19 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 (°)	
1,064.00	1,236.00	Rustler		0.00		
1,570.00	1,742.00	Top Salt		0.00		
4,996.00	5,168.00	Base Salt		0.00		
5,043.00	5,215.00	Delaware		0.00		
7,250.00	7,422.00	Brushy Canyon		0.00		
8,434.00	8,606.00	Lwr Brushy		0.00		
8,606.00	8,778.00	Bone Spring		0.00		
9,673.00	9,845.00	1st BS SS		0.00		
10,253.98	10,409.00	2nd BS SS		0.00		

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N-S (usft)	+E-W (usft)	Comment	
9,930.05	9,930.05	0.00	0.00	KOP 10" DLS	
10,827.70	10,503.00	-568.85	44.77	Hold	
10,827.75	10,503.00	-568.90	44.77	LP / Turn	
15,707.70	10,522.99	-5,448.37	90.81	TD	