

HOBBS CCD

APR 27 2016

RECEIVED

DEVON ENERGY

Lea County, NM (NAD-83)

Paloma Blanco 19 Fed

3H

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 3H
Company:	DEVON ENERGY	TVD Reference:	3539.3' GL + 25' RKB @ 3564.30usft
Project:	Lea County, NM (NAD-83)	MD Reference:	3539.3' GL + 25' RKB @ 3564.30usft
Site:	Paloma Blanco 19 Fed	North Reference:	Grid
Well:	3H	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:	3H		
Well Position	+N/-S	0.72 usft	Northing:
	+E/-W	99.93 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	3,564.30 usft
		Latitude:	32° 17' 55.493 N
		Longitude:	103° 30' 58.392 W
		Ground Level:	3,539.30 usft

Wellbore:	OH		
Magnetics:	Model Name	Sample Date	Declination
			(°)
	BGGM2015	10/5/2015	7.20
			Dip Angle
			(°)
			Field Strength
			(nT)
			60.22
			48,239

Design:	Plan #1		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth:
			0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
			Direction
			(°)
			179.32

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		
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00		
5,766.67	10.00	120.00	5,763.29	-29.02	50.26	1.50	1.50	0.00	120.00		
9,521.67	10.00	120.00	9,461.24	-355.04	614.95	0.00	0.00	0.00	0.00		
9,988.33	3.00	120.00	9,924.62	-381.44	660.67	1.50	-1.50	0.00	180.00		
10,864.78	89.69	167.00	10,476.72	-931.60	809.28	10.00	9.89	5.36	47.05		
11,686.24	89.69	179.32	10,481.16	-1,745.63	906.91	1.50	0.00	1.50	90.02		
15,384.54	89.69	179.32	10,501.00	-5,443.62	950.67	0.00	0.00	0.00	0.00	PBHL (PB19F 3H)	

LEAM Drilling Systems LLC

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Site:	Pajoma Blanco 19 Fed.	North Reference:	Grid
Well:	3H	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 3H)									
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
1,062.00	0.00	0.00	1,062.00	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
1,568.00	0.00	0.00	1,568.00	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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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	
4,994.00	0.00	0.00	4,994.00	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	
5,041.00	0.00	0.00	5,041.00	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	120.00	5,199.99	-0.65	1.13	0.67	1.50	1.50	0.00	
5,300.00	3.00	120.00	5,299.91	-2.62	4.53	2.67	1.50	1.50	0.00	
5,400.00	4.50	120.00	5,399.69	-5.89	10.20	6.01	1.50	1.50	0.00	
5,500.00	6.00	120.00	5,499.27	-10.46	18.12	10.68	1.50	1.50	0.00	
5,600.00	7.50	120.00	5,598.57	-16.34	28.30	16.67	1.50	1.50	0.00	
5,700.00	9.00	120.00	5,697.54	-23.51	40.73	24.00	1.50	1.50	0.00	
5,766.67	10.00	120.00	5,763.29	-29.02	50.26	29.61	1.50	1.50	0.00	
Hold										
5,800.00	10.00	120.00	5,796.11	-31.91	55.27	32.56	0.00	0.00	0.00	
5,900.00	10.00	120.00	5,894.60	-40.59	70.31	41.42	0.00	0.00	0.00	
6,000.00	10.00	120.00	5,993.08	-49.27	85.35	50.28	0.00	0.00	0.00	
6,100.00	10.00	120.00	6,091.56	-57.96	100.38	59.14	0.00	0.00	0.00	
6,200.00	10.00	120.00	6,190.04	-66.64	115.42	68.00	0.00	0.00	0.00	
6,300.00	10.00	120.00	6,288.52	-75.32	130.46	76.86	0.00	0.00	0.00	
6,400.00	10.00	120.00	6,387.00	-84.00	145.50	85.72	0.00	0.00	0.00	
6,500.00	10.00	120.00	6,485.48	-92.69	160.54	94.58	0.00	0.00	0.00	
6,600.00	10.00	120.00	6,583.96	-101.37	175.58	103.45	0.00	0.00	0.00	
6,700.00	10.00	120.00	6,682.44	-110.05	190.61	112.31	0.00	0.00	0.00	
6,800.00	10.00	120.00	6,780.92	-118.73	205.65	121.17	0.00	0.00	0.00	
6,900.00	10.00	120.00	6,879.40	-127.42	220.69	130.03	0.00	0.00	0.00	
7,000.00	10.00	120.00	6,977.88	-136.10	235.73	138.89	0.00	0.00	0.00	
7,100.00	10.00	120.00	7,076.36	-144.78	250.77	147.75	0.00	0.00	0.00	
7,200.00	10.00	120.00	7,174.85	-153.46	265.81	156.61	0.00	0.00	0.00	
7,274.28	10.00	120.00	7,248.00	-159.91	276.98	163.19	0.00	0.00	0.00	
Brushy Canyon										
7,300.00	10.00	120.00	7,273.33	-162.15	280.84	165.47	0.00	0.00	0.00	
7,400.00	10.00	120.00	7,371.81	-170.83	295.88	174.33	0.00	0.00	0.00	
7,500.00	10.00	120.00	7,470.29	-179.51	310.92	183.19	0.00	0.00	0.00	
7,600.00	10.00	120.00	7,568.77	-188.19	325.96	192.05	0.00	0.00	0.00	
7,700.00	10.00	120.00	7,667.25	-196.87	341.00	200.91	0.00	0.00	0.00	
7,800.00	10.00	120.00	7,765.73	-205.56	356.04	209.77	0.00	0.00	0.00	
7,900.00	10.00	120.00	7,864.21	-214.24	371.07	218.63	0.00	0.00	0.00	
8,000.00	10.00	120.00	7,962.69	-222.92	386.11	227.49	0.00	0.00	0.00	
8,100.00	10.00	120.00	8,061.17	-231.60	401.15	236.35	0.00	0.00	0.00	
8,200.00	10.00	120.00	8,159.65	-240.29	416.19	245.21	0.00	0.00	0.00	
8,300.00	10.00	120.00	8,258.13	-248.97	431.23	254.07	0.00	0.00	0.00	
8,400.00	10.00	120.00	8,356.61	-257.65	446.27	262.93	0.00	0.00	0.00	
8,476.55	10.00	120.00	8,432.00	-264.30	457.78	269.71	0.00	0.00	0.00	
Lwr Brushy										
8,500.00	10.00	120.00	8,455.10	-266.33	461.30	271.79	0.00	0.00	0.00	
8,600.00	10.00	120.00	8,553.58	-275.02	476.34	280.65	0.00	0.00	0.00	
8,651.20	10.00	120.00	8,604.00	-279.46	484.04	285.19	0.00	0.00	0.00	
Bone Spring										
8,700.00	10.00	120.00	8,652.06	-283.70	491.38	289.51	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)
8,800.00	10.00	120.00	8,750.54	-292.38	506.42	298.37	0.00	0.00	0.00
8,900.00	10.00	120.00	8,849.02	-301.06	521.46	307.23	0.00	0.00	0.00
9,000.00	10.00	120.00	8,947.50	-309.75	536.50	316.09	0.00	0.00	0.00
9,100.00	10.00	120.00	9,045.98	-318.43	551.53	324.95	0.00	0.00	0.00
9,200.00	10.00	120.00	9,144.46	-327.11	566.57	333.81	0.00	0.00	0.00
9,300.00	10.00	120.00	9,242.94	-335.79	581.61	342.67	0.00	0.00	0.00
9,400.00	10.00	120.00	9,341.42	-344.48	596.65	351.53	0.00	0.00	0.00
9,500.00	10.00	120.00	9,439.90	-353.16	611.69	360.39	0.00	0.00	0.00
9,521.67	10.00	120.00	9,461.24	-355.04	614.95	362.31	0.00	0.00	0.00
Drop									
9,600.00	8.83	120.00	9,538.52	-361.44	626.04	368.85	1.50	-1.50	0.00
9,700.00	7.32	120.00	9,637.52	-368.47	638.21	376.02	1.50	-1.50	0.00
9,733.73	6.82	120.00	9,671.00	-370.54	641.80	378.14	1.50	-1.50	0.00
1st BS SS									
9,800.00	5.82	120.00	9,736.86	-374.19	648.12	381.86	1.50	-1.50	0.00
9,900.00	4.32	120.00	9,836.47	-378.62	655.78	386.37	1.50	-1.50	0.00
9,988.33	3.00	120.00	9,924.62	-381.44	660.67	389.25	1.50	-1.50	0.00
KOP 10° DLS									
10,000.00	3.89	132.69	9,936.26	-381.86	661.22	389.68	10.00	7.63	108.78
10,050.00	8.50	152.15	9,985.96	-386.28	664.20	394.13	10.00	9.22	38.91
10,100.00	13.39	157.74	10,035.04	-394.91	668.12	402.81	10.00	9.78	11.20
10,150.00	18.34	160.37	10,083.12	-407.68	672.96	415.64	10.00	9.90	5.25
10,200.00	23.31	161.91	10,129.84	-424.51	678.68	432.53	10.00	9.94	3.07
10,250.00	28.29	162.93	10,174.84	-445.25	685.23	453.35	10.00	9.96	2.04
10,300.00	33.28	163.66	10,217.79	-469.75	692.57	477.94	10.00	9.97	1.47
10,320.84	35.36	163.91	10,235.00	-481.04	695.85	489.26	10.00	9.98	1.21
2nd BS SS									
10,350.00	38.27	164.23	10,258.34	-497.83	700.64	506.11	10.00	9.98	1.07
10,400.00	43.26	164.68	10,296.20	-529.27	709.39	537.66	10.00	9.98	0.90
10,450.00	48.25	165.05	10,331.08	-563.84	718.73	572.33	10.00	9.99	0.75
10,500.00	53.24	165.37	10,362.71	-601.26	728.61	609.87	10.00	9.99	0.64
10,550.00	58.24	165.65	10,390.84	-641.26	738.94	649.99	10.00	9.99	0.56
10,600.00	63.23	165.90	10,415.28	-683.53	749.65	692.38	10.00	9.99	0.50
10,650.00	68.23	166.13	10,435.82	-727.75	760.66	736.72	10.00	9.99	0.46
10,700.00	73.22	166.35	10,452.32	-773.58	771.88	782.68	10.00	9.99	0.43
10,750.00	78.22	166.55	10,464.65	-820.67	783.22	829.91	10.00	9.99	0.41
10,800.00	83.22	166.75	10,472.71	-868.67	794.61	878.04	10.00	9.99	0.39
10,850.00	88.21	166.94	10,476.45	-917.20	805.95	926.70	10.00	9.99	0.39
10,864.78	89.69	167.00	10,476.72	-931.60	809.28	941.14	10.00	9.99	0.38
LP / Turn									
10,900.00	89.69	167.53	10,476.91	-965.95	817.05	975.58	1.50	0.00	1.50
11,000.00	89.69	169.03	10,477.45	-1,063.86	837.36	1,073.73	1.50	0.00	1.50
11,100.00	89.69	170.53	10,477.99	-1,162.27	855.11	1,172.34	1.50	0.00	1.50
11,200.00	89.69	172.03	10,478.53	-1,261.11	870.27	1,271.35	1.50	0.00	1.50
11,300.00	89.69	173.53	10,479.08	-1,360.31	882.84	1,370.70	1.50	0.00	1.50
11,400.00	89.69	175.03	10,479.62	-1,459.81	892.81	1,470.31	1.50	0.00	1.50
11,500.00	89.69	176.53	10,480.16	-1,559.54	900.17	1,570.11	1.50	0.00	1.50
11,600.00	89.69	178.03	10,480.70	-1,659.42	904.92	1,670.04	1.50	0.00	1.50
11,686.24	89.69	179.32	10,481.16	-1,745.63	906.91	1,756.27	1.50	0.00	1.50
Hold									
11,700.00	89.69	179.32	10,481.23	-1,759.39	907.08	1,770.03	0.00	0.00	0.00
11,800.00	89.69	179.32	10,481.77	-1,859.38	908.26	1,870.03	0.00	0.00	0.00
11,900.00	89.69	179.32	10,482.31	-1,959.38	909.44	1,970.03	0.00	0.00	0.00

LEAM Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 3H
Company:	DEVON ENERGY	TVD Reference:	3539.3' GL + 25' RKB @ 3564.30usft
Project:	Lea County, NM (NAD-83)	MD Reference:	3539.3' GL + 25' RKB @ 3564.30usft
Site:	Paloma Blanco 19 Fed	North Reference:	Grid
Well:	3H	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	89.69	179.32	10,482.84	-2,059.37	910.63	2,070.03	0.00	0.00	0.00	
12,100.00	89.69	179.32	10,483.38	-2,159.36	911.81	2,170.03	0.00	0.00	0.00	
12,200.00	89.69	179.32	10,483.92	-2,259.35	912.99	2,270.03	0.00	0.00	0.00	
12,300.00	89.69	179.32	10,484.45	-2,359.34	914.18	2,370.02	0.00	0.00	0.00	
12,400.00	89.69	179.32	10,484.99	-2,459.33	915.36	2,470.02	0.00	0.00	0.00	
12,500.00	89.69	179.32	10,485.53	-2,559.32	916.54	2,570.02	0.00	0.00	0.00	
12,600.00	89.69	179.32	10,486.06	-2,659.32	917.72	2,670.02	0.00	0.00	0.00	
12,700.00	89.69	179.32	10,486.60	-2,759.31	918.91	2,770.02	0.00	0.00	0.00	
12,800.00	89.69	179.32	10,487.13	-2,859.30	920.09	2,870.02	0.00	0.00	0.00	
12,900.00	89.69	179.32	10,487.67	-2,959.29	921.27	2,970.02	0.00	0.00	0.00	
13,000.00	89.69	179.32	10,488.21	-3,059.28	922.46	3,070.01	0.00	0.00	0.00	
13,100.00	89.69	179.32	10,488.74	-3,159.27	923.64	3,170.01	0.00	0.00	0.00	
13,200.00	89.69	179.32	10,489.28	-3,259.27	924.82	3,270.01	0.00	0.00	0.00	
13,300.00	89.69	179.32	10,489.82	-3,359.26	926.01	3,370.01	0.00	0.00	0.00	
13,400.00	89.69	179.32	10,490.35	-3,459.25	927.19	3,470.01	0.00	0.00	0.00	
13,500.00	89.69	179.32	10,490.89	-3,559.24	928.37	3,570.01	0.00	0.00	0.00	
13,600.00	89.69	179.32	10,491.43	-3,659.23	929.56	3,670.01	0.00	0.00	0.00	
13,700.00	89.69	179.32	10,491.96	-3,759.22	930.74	3,770.00	0.00	0.00	0.00	
13,800.00	89.69	179.32	10,492.50	-3,859.21	931.92	3,870.00	0.00	0.00	0.00	
13,900.00	89.69	179.32	10,493.04	-3,959.21	933.11	3,970.00	0.00	0.00	0.00	
14,000.00	89.69	179.32	10,493.57	-4,059.20	934.29	4,070.00	0.00	0.00	0.00	
14,100.00	89.69	179.32	10,494.11	-4,159.19	935.47	4,170.00	0.00	0.00	0.00	
14,200.00	89.69	179.32	10,494.65	-4,259.18	936.66	4,270.00	0.00	0.00	0.00	
14,300.00	89.69	179.32	10,495.18	-4,359.17	937.84	4,370.00	0.00	0.00	0.00	
14,400.00	89.69	179.32	10,495.72	-4,459.16	939.02	4,469.99	0.00	0.00	0.00	
14,500.00	89.69	179.32	10,496.25	-4,559.16	940.20	4,569.99	0.00	0.00	0.00	
14,600.00	89.69	179.32	10,496.79	-4,659.15	941.39	4,669.99	0.00	0.00	0.00	
14,700.00	89.69	179.32	10,497.33	-4,759.14	942.57	4,769.99	0.00	0.00	0.00	
14,800.00	89.69	179.32	10,497.86	-4,859.13	943.75	4,869.99	0.00	0.00	0.00	
14,900.00	89.69	179.32	10,498.40	-4,959.12	944.94	4,969.99	0.00	0.00	0.00	
15,000.00	89.69	179.32	10,498.94	-5,059.11	946.12	5,069.99	0.00	0.00	0.00	
15,100.00	89.69	179.32	10,499.47	-5,159.11	947.30	5,169.98	0.00	0.00	0.00	
15,200.00	89.69	179.32	10,500.01	-5,259.10	948.49	5,269.98	0.00	0.00	0.00	
15,300.00	89.69	179.32	10,500.55	-5,359.09	949.67	5,369.98	0.00	0.00	0.00	
15,384.54	89.69	179.32	10,501.00	-5,443.62	950.67	5,454.52	0.00	0.00	0.00	
TD - PBHL (PB19F 3H)										

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 (PB19F 3H)	- plan hits target center	0.00	0.00	0.00	0.00	0.00	473,379.15	793,811.86	32° 17' 55.493 N	103° 30' 58.392 W
	- Point									
PBHL (PB19F 3H)	- plan hits target center	0.00	0.00	10,501.00	-5,443.62	950.67	467,935.53	794,762.53	32° 17' 1.557 N	103° 30' 47.801 W
	- Point									

LEAM Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 3H
Company:	DEVON ENERGY	TVD Reference:	3539.3' GL + 25' RKB @ 3564.30usft
Project:	Lea County, NM (NAD-83)	MD Reference:	3539.3' GL + 25' RKB @ 3564.30usft
Site:	Palomá Blanco 19 Fed	North Reference:	Grid
Well:	3H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1.		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,062.00	1,062.00	Rustler		0.00		
1,568.00	1,568.00	Top Salt		0.00		
4,994.00	4,994.00	Base Salt		0.00		
5,041.00	5,041.00	Delaware		0.00		
7,274.28	7,248.00	Brushy Canyon		0.00		
8,476.55	8,432.00	Lwr Brushy		0.00		
8,651.20	8,604.00	Bone Spring		0.00		
9,733.73	9,671.00	1st BS SS		0.00		
10,320.84	10,235.00	2nd 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	
5,766.67	5,763.29	-29.02	50.26	Hold	
9,521.67	9,461.24	-355.04	614.95	Drop	
9,988.33	9,924.62	-381.44	660.67	KOP 10° DLS	
10,864.78	10,476.72	-931.60	809.28	LP / Turn	
11,686.24	10,481.16	-1,745.63	906.91	Hold	
15,384.54	10,501.00	-5,443.62	950.67	TD	