

HOBBS OCD

APR 27 2016

RECEIVED

DEVON ENERGY

Lea County, NM (NAD-83)

Paloma Blanco 19 Fed

2H

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 2H
Company:	DEVON ENERGY	TVD Reference:	3540.3' GL + 25' RKB @ 3565.30usft
Project:	Lea County, NM (NAD-83)	MD Reference:	3540.3' GL + 25' RKB @ 3565.30usft
Site:	Paloma Blanco 19 Fed	North Reference:	Grid
Well:	2H	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:	2H					
Well Position	+N-S	0.34 usft	Northing:	473,378.77 usft	Latitude:	32° 17' 55.493 N
	+E-W	49.99 usft	Easting:	793,761.92 usft	Longitude:	103° 30' 58.974 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	3,565.30 usft	Ground Level:	3,540.30 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) (usft)	+N-S (usft)	+E-W (usft)	Direction (°)
	0.00	0.00	0.00	178.01

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	
5,500.00	6.00	145.00	5,499.27	-17.14	12.00	1.50	1.50	0.00	145.00	
8,500.00	6.00	145.00	8,482.84	-274.01	191.87	0.00	0.00	0.00	0.00	
8,900.00	0.00	0.00	8,882.10	-291.16	203.87	1.50	-1.50	0.00	180.00	
9,700.95	0.00	0.00	9,683.05	-291.16	203.87	0.00	0.00	0.00	0.00	
10,598.45	89.75	168.00	10,256.00	-849.15	322.47	10.00	10.00	0.00	168.00	
11,265.48	89.75	178.01	10,258.91	-1,510.36	403.63	1.50	0.00	1.50	90.01	
15,204.12	89.75	178.01	10,276.00	-5,446.58	540.70	0.00	0.00	0.00	0.00	PBHL (PB19F 2H)

LEAM Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 2H
Company:	DEVON ENERGY	TVD Reference:	3540.3' GL + 25' RKB @ 3565.30usft
Project:	Lea County, NM (NAD-83)	MD Reference:	3540.3' GL + 25' RKB @ 3565.30usft
Site:	Paloma Blanco 19 Fed	North Reference:	Grid
Well:	2H	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 2H)										
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	
1,063.00	0.00	0.00	1,063.00	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	
1,569.00	0.00	0.00	1,569.00	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	

LEAM Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 2H
Company:	DEVON ENERGY	TVD Reference:	3540.3' GL + 25' RKB @ 3565.30usft
Project:	Lea County, NM (NAD-83)	MD Reference:	3540.3' GL + 25' RKB @ 3565.30usft
Site:	Paloma Blanco 19 Fed	North Reference:	Grid
Well:	2H	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	
4,995.00	0.00	0.00	4,995.00	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	
Nudge										
5,200.00	1.50	145.00	5,199.99	-1.07	0.75	1.10	1.50	1.50	0.00	
5,300.00	3.00	145.00	5,299.91	-4.29	3.00	4.39	1.50	1.50	0.00	
5,400.00	4.50	145.00	5,399.69	-9.65	6.75	9.87	1.50	1.50	0.00	
5,500.00	6.00	145.00	5,499.27	-17.14	12.00	17.55	1.50	1.50	0.00	
Hold										
5,600.00	6.00	145.00	5,598.72	-25.70	18.00	26.31	0.00	0.00	0.00	
5,700.00	6.00	145.00	5,698.17	-34.27	23.99	35.08	0.00	0.00	0.00	
5,800.00	6.00	145.00	5,797.63	-42.83	29.99	43.84	0.00	0.00	0.00	
5,900.00	6.00	145.00	5,897.08	-51.39	35.98	52.61	0.00	0.00	0.00	
6,000.00	6.00	145.00	5,996.53	-59.95	41.98	61.37	0.00	0.00	0.00	
6,100.00	6.00	145.00	6,095.98	-68.52	47.98	70.14	0.00	0.00	0.00	
6,200.00	6.00	145.00	6,195.43	-77.08	53.97	78.91	0.00	0.00	0.00	
6,300.00	6.00	145.00	6,294.89	-85.64	59.97	87.67	0.00	0.00	0.00	
6,400.00	6.00	145.00	6,394.34	-94.20	65.96	96.44	0.00	0.00	0.00	
6,500.00	6.00	145.00	6,493.79	-102.77	71.96	105.20	0.00	0.00	0.00	
6,600.00	6.00	145.00	6,593.24	-111.33	77.95	113.97	0.00	0.00	0.00	
6,700.00	6.00	145.00	6,692.70	-119.89	83.95	122.73	0.00	0.00	0.00	
6,800.00	6.00	145.00	6,792.15	-128.45	89.94	131.50	0.00	0.00	0.00	
6,900.00	6.00	145.00	6,891.60	-137.02	95.94	140.26	0.00	0.00	0.00	
7,000.00	6.00	145.00	6,991.05	-145.58	101.93	149.03	0.00	0.00	0.00	
7,100.00	6.00	145.00	7,090.50	-154.14	107.93	157.80	0.00	0.00	0.00	
7,200.00	6.00	145.00	7,189.96	-162.70	113.93	166.56	0.00	0.00	0.00	
7,259.37	6.00	145.00	7,249.00	-167.79	117.49	171.76	0.00	0.00	0.00	
Brushy Canyon										
7,300.00	6.00	145.00	7,289.41	-171.27	119.92	175.33	0.00	0.00	0.00	
7,400.00	6.00	145.00	7,388.86	-179.83	125.92	184.09	0.00	0.00	0.00	
7,500.00	6.00	145.00	7,488.31	-188.39	131.91	192.86	0.00	0.00	0.00	
7,600.00	6.00	145.00	7,587.77	-196.95	137.91	201.62	0.00	0.00	0.00	
7,700.00	6.00	145.00	7,687.22	-205.51	143.90	210.39	0.00	0.00	0.00	
7,800.00	6.00	145.00	7,786.67	-214.08	149.90	219.15	0.00	0.00	0.00	
7,900.00	6.00	145.00	7,886.12	-222.64	155.89	227.92	0.00	0.00	0.00	
8,000.00	6.00	145.00	7,985.57	-231.20	161.89	236.68	0.00	0.00	0.00	
8,100.00	6.00	145.00	8,085.03	-239.76	167.89	245.45	0.00	0.00	0.00	
8,200.00	6.00	145.00	8,184.48	-248.33	173.88	254.22	0.00	0.00	0.00	
8,300.00	6.00	145.00	8,283.93	-256.89	179.88	262.98	0.00	0.00	0.00	
8,400.00	6.00	145.00	8,383.38	-265.45	185.87	271.75	0.00	0.00	0.00	
8,449.89	6.00	145.00	8,433.00	-269.72	188.86	276.12	0.00	0.00	0.00	
Lwr Brushy										
8,500.00	6.00	145.00	8,482.84	-274.01	191.87	280.51	0.00	0.00	0.00	
Drop										
8,600.00	4.50	145.00	8,582.41	-281.51	197.12	288.18	1.50	-1.50	0.00	
8,622.65	4.16	145.00	8,605.00	-282.91	198.10	289.62	1.50	-1.50	0.00	
Bone Spring										
8,700.00	3.00	145.00	8,682.20	-286.87	200.87	293.67	1.50	-1.50	0.00	

LEAM Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 2H
Company:	DEVON ENERGY	TVD Reference:	3540.3' GL + 25' RKB @ 3565.30usft
Project:	Lea County, NM (NAD-83)	MD Reference:	3540.3' GL + 25' RKB @ 3565.30usft
Site:	Paloma Blanco 19 Fed	North Reference:	Grid
Well:	2H	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)
	8,800.00	1.50	145.00	8,782.12	-290.08	203.12	296.96	1.50	-1.50	0.00
	8,900.00	0.00	0.00	8,882.10	-291.16	203.87	298.06	1.50	-1.50	0.00
Hold										
	9,000.00	0.00	0.00	8,982.10	-291.16	203.87	298.06	0.00	0.00	0.00
	9,100.00	0.00	0.00	9,082.10	-291.16	203.87	298.06	0.00	0.00	0.00
	9,200.00	0.00	0.00	9,182.10	-291.16	203.87	298.06	0.00	0.00	0.00
	9,300.00	0.00	0.00	9,282.10	-291.16	203.87	298.06	0.00	0.00	0.00
	9,400.00	0.00	0.00	9,382.10	-291.16	203.87	298.06	0.00	0.00	0.00
	9,500.00	0.00	0.00	9,482.10	-291.16	203.87	298.06	0.00	0.00	0.00
	9,600.00	0.00	0.00	9,582.10	-291.16	203.87	298.06	0.00	0.00	0.00
	9,689.90	0.00	0.00	9,672.00	-291.16	203.87	298.06	0.00	0.00	0.00
1st BS SS										
	9,700.95	0.00	0.00	9,683.05	-291.16	203.87	298.06	0.00	0.00	0.00
KOP 10° DLS										
	9,750.00	4.91	168.00	9,732.04	-293.21	204.31	300.13	10.00	10.00	0.00
	9,800.00	9.91	168.00	9,781.61	-299.51	205.64	306.47	10.00	10.00	0.00
	9,850.00	14.91	168.00	9,830.43	-310.01	207.88	317.04	10.00	10.00	0.00
	9,900.00	19.91	168.00	9,878.12	-324.64	210.99	331.77	10.00	10.00	0.00
	9,950.00	24.91	168.00	9,924.34	-343.27	214.95	350.53	10.00	10.00	0.00
	10,000.00	29.91	168.00	9,968.71	-365.78	219.73	373.19	10.00	10.00	0.00
	10,050.00	34.91	168.00	10,010.91	-391.98	225.30	399.57	10.00	10.00	0.00
	10,100.00	39.91	168.00	10,050.62	-421.68	231.61	429.47	10.00	10.00	0.00
	10,150.00	44.91	168.00	10,087.52	-454.65	238.62	462.66	10.00	10.00	0.00
	10,200.00	49.91	168.00	10,121.35	-490.64	246.27	498.90	10.00	10.00	0.00
	10,250.00	54.91	168.00	10,151.85	-529.38	254.51	537.90	10.00	10.00	0.00
	10,300.00	59.91	168.00	10,178.77	-570.57	263.26	579.37	10.00	10.00	0.00
	10,350.00	64.91	168.00	10,201.93	-613.90	272.47	622.99	10.00	10.00	0.00
	10,400.00	69.91	168.00	10,221.13	-659.04	282.07	668.44	10.00	10.00	0.00
	10,449.08	74.81	168.00	10,236.00	-704.78	291.79	714.49	10.00	10.00	0.00
2nd BS SS										
	10,450.00	74.91	168.00	10,236.24	-705.65	291.97	715.36	10.00	10.00	0.00
	10,500.00	79.91	168.00	10,247.14	-753.36	302.11	763.40	10.00	10.00	0.00
	10,550.00	84.91	168.00	10,253.74	-801.83	312.42	812.19	10.00	10.00	0.00
	10,598.45	89.75	168.00	10,256.00	-849.15	322.47	859.83	10.00	10.00	0.00
LP / Turn										
	10,600.00	89.75	168.02	10,256.01	-850.67	322.80	861.36	1.50	0.00	1.50
	10,700.00	89.75	169.52	10,256.45	-948.75	342.27	960.06	1.50	0.00	1.50
	10,800.00	89.75	171.02	10,256.88	-1,047.31	359.16	1,059.15	1.50	0.00	1.50
	10,900.00	89.75	172.52	10,257.32	-1,146.28	373.47	1,158.55	1.50	0.00	1.50
	11,000.00	89.75	174.02	10,257.76	-1,245.58	385.18	1,258.21	1.50	0.00	1.50
	11,100.00	89.75	175.52	10,258.19	-1,345.16	394.29	1,358.05	1.50	0.00	1.50
	11,200.00	89.75	177.02	10,258.63	-1,444.95	400.79	1,458.00	1.50	0.00	1.50
	11,265.48	89.75	178.01	10,258.91	-1,510.36	403.63	1,523.47	1.50	0.00	1.50
Hold										
	11,300.00	89.75	178.01	10,259.06	-1,544.87	404.83	1,557.99	0.00	0.00	0.00
	11,400.00	89.75	178.01	10,259.50	-1,644.80	408.31	1,657.99	0.00	0.00	0.00
	11,500.00	89.75	178.01	10,259.93	-1,744.74	411.79	1,757.99	0.00	0.00	0.00
	11,600.00	89.75	178.01	10,260.36	-1,844.68	415.27	1,857.99	0.00	0.00	0.00
	11,700.00	89.75	178.01	10,260.80	-1,944.62	418.75	1,957.99	0.00	0.00	0.00
	11,800.00	89.75	178.01	10,261.23	-2,044.56	422.23	2,057.99	0.00	0.00	0.00
	11,900.00	89.75	178.01	10,261.67	-2,144.50	425.71	2,157.99	0.00	0.00	0.00
	12,000.00	89.75	178.01	10,262.10	-2,244.43	429.19	2,257.98	0.00	0.00	0.00
	12,100.00	89.75	178.01	10,262.53	-2,344.37	432.67	2,357.98	0.00	0.00	0.00

LEAM Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db.	Local Co-ordinate Reference:	Well 2H
Company:	DEVON ENERGY	TVD Reference:	3540.3' GL + 25' RKB @ 3565.30usft
Project:	Lea County, NM (NAD-83)	MD Reference:	3540.3' GL + 25' RKB @ 3565.30usft
Site:	Paloma, Blanco 19 Fed	North Reference:	Grid
Well:	2H	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)	
12,200.00	89.75	178.01	10,262.97	-2,444.31	436.15	2,457.98	0.00	0.00	0.00	
12,300.00	89.75	178.01	10,263.40	-2,544.25	439.63	2,557.98	0.00	0.00	0.00	
12,400.00	89.75	178.01	10,263.83	-2,644.19	443.11	2,657.98	0.00	0.00	0.00	
12,500.00	89.75	178.01	10,264.27	-2,744.13	446.59	2,757.98	0.00	0.00	0.00	
12,600.00	89.75	178.01	10,264.70	-2,844.07	450.07	2,857.98	0.00	0.00	0.00	
12,700.00	89.75	178.01	10,265.14	-2,944.00	453.55	2,957.98	0.00	0.00	0.00	
12,800.00	89.75	178.01	10,265.57	-3,043.94	457.03	3,057.98	0.00	0.00	0.00	
12,900.00	89.75	178.01	10,266.00	-3,143.88	460.51	3,157.98	0.00	0.00	0.00	
13,000.00	89.75	178.01	10,266.44	-3,243.82	463.99	3,257.98	0.00	0.00	0.00	
13,100.00	89.75	178.01	10,266.87	-3,343.76	467.47	3,357.97	0.00	0.00	0.00	
13,200.00	89.75	178.01	10,267.31	-3,443.70	470.95	3,457.97	0.00	0.00	0.00	
13,300.00	89.75	178.01	10,267.74	-3,543.63	474.43	3,557.97	0.00	0.00	0.00	
13,400.00	89.75	178.01	10,268.17	-3,643.57	477.91	3,657.97	0.00	0.00	0.00	
13,500.00	89.75	178.01	10,268.61	-3,743.51	481.39	3,757.97	0.00	0.00	0.00	
13,600.00	89.75	178.01	10,269.04	-3,843.45	484.87	3,857.97	0.00	0.00	0.00	
13,700.00	89.75	178.01	10,269.47	-3,943.39	488.35	3,957.97	0.00	0.00	0.00	
13,800.00	89.75	178.01	10,269.91	-4,043.33	491.83	4,057.97	0.00	0.00	0.00	
13,900.00	89.75	178.01	10,270.34	-4,143.27	495.31	4,157.97	0.00	0.00	0.00	
14,000.00	89.75	178.01	10,270.78	-4,243.20	498.79	4,257.97	0.00	0.00	0.00	
14,100.00	89.75	178.01	10,271.21	-4,343.14	502.27	4,357.96	0.00	0.00	0.00	
14,200.00	89.75	178.01	10,271.64	-4,443.08	505.76	4,457.96	0.00	0.00	0.00	
14,300.00	89.75	178.01	10,272.08	-4,543.02	509.24	4,557.96	0.00	0.00	0.00	
14,400.00	89.75	178.01	10,272.51	-4,642.96	512.72	4,657.96	0.00	0.00	0.00	
14,500.00	89.75	178.01	10,272.95	-4,742.90	516.20	4,757.96	0.00	0.00	0.00	
14,600.00	89.75	178.01	10,273.38	-4,842.84	519.68	4,857.96	0.00	0.00	0.00	
14,700.00	89.75	178.01	10,273.81	-4,942.77	523.16	4,957.96	0.00	0.00	0.00	
14,800.00	89.75	178.01	10,274.25	-5,042.71	526.64	5,057.96	0.00	0.00	0.00	
14,900.00	89.75	178.01	10,274.68	-5,142.65	530.12	5,157.96	0.00	0.00	0.00	
15,000.00	89.75	178.01	10,275.11	-5,242.59	533.60	5,257.96	0.00	0.00	0.00	
15,100.00	89.75	178.01	10,275.55	-5,342.53	537.08	5,357.96	0.00	0.00	0.00	
15,204.12	89.75	178.01	10,276.00	-5,446.58	540.70	5,462.07	0.00	0.00	0.00	
TD - PBHL (PB19F 2H)										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude		Longitude
SHL (PB19F 2H)	0.00	0.00	0.00	0.00	0.00	473,378.77	793,761.92	32° 17' 55.493 N		103° 30' 58.974 W
- plan hits target center										
- Point										
PBHL (PB19F 2H)	0.00	0.00	10,276.00	-5,446.58	540.70	467,932.19	794,302.62	32° 17' 1.559 N		103° 30' 53.159 W
- plan hits target center										
- Point										

LEAM Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 2H
Company:	DEVON ENERGY	TVD Reference:	3540.3' GL + 25' RKB @ 3565.30usft
Project:	Lea County, NM (NAD-83)	MD Reference:	3540.3' GL + 25' RKB @ 3565.30usft
Site:	Paloma Blanco 19 Fed	North Reference:	Grid
Well:	2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,063.00	1,063.00	Rustler		0.00		
1,569.00	1,569.00	Top Salt		0.00		
4,995.00	4,995.00	Base Salt		0.00		
5,042.00	5,042.00	Delaware		0.00		
7,259.37	7,249.00	Brushy Canyon		0.00		
8,449.89	8,433.00	Lwr Brushy		0.00		
8,622.65	8,605.00	Bone Spring		0.00		
9,689.90	9,672.00	1st BS SS		0.00		
10,449.08	10,236.00	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	
5,500.00	5,499.27	-17.14	12.00	Hold	
8,500.00	8,482.84	-274.01	191.87	Drop	
8,900.00	8,882.10	-291.16	203.87	Hold	
9,700.95	9,683.05	-291.16	203.87	KOP 10° DLS	
10,598.45	10,256.00	-849.15	322.47	LP / Turn	
11,265.48	10,258.91	-1,510.36	403.63	Hold	
15,204.12	10,276.00	-5,446.58	540.70	TD	