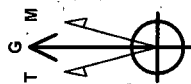


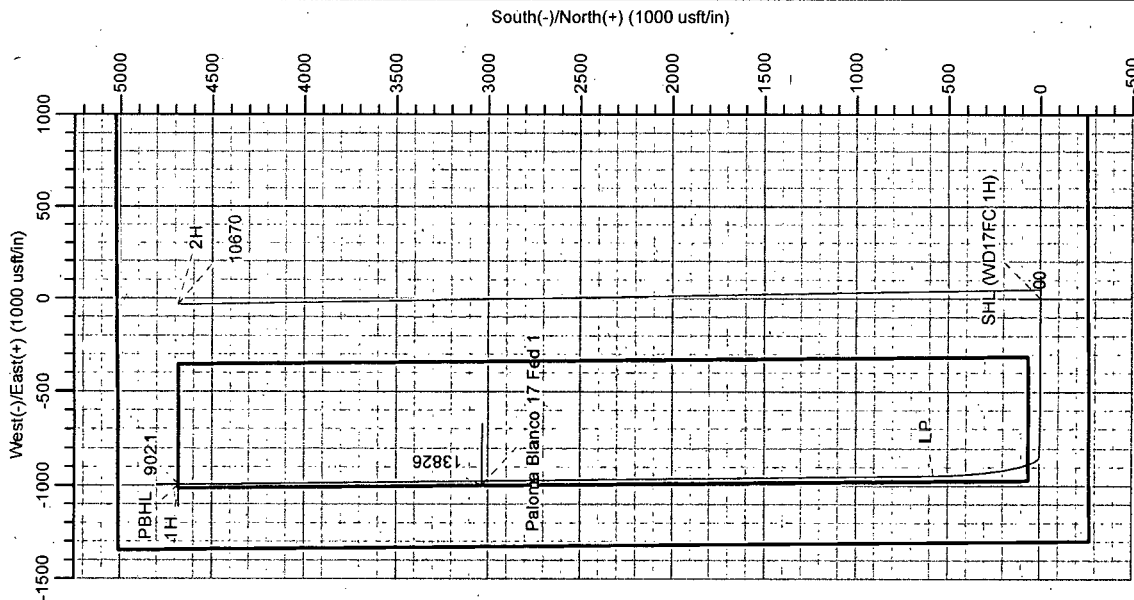
DEVON ENERGY

Project: Lea County, NM (NAD-83)
 Site: White Dove 17 Fed Com
 Well: 1H
 Wellbore: OH
 Design: Plan #1



Azimuths to Grid North
 True North: -0.45°
 Magnetic North: 6.80°
 Magnetic Field
 Strength: 48223.3nT
 Dip Angle: 60.16°
 Date: 5/15/2015
 Model: BGGM2014

PROJECT DETAILS: Lea County, NM (NAD-83)
 Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: New Mexico Eastern Zone



DESIGN TARGET DETAILS

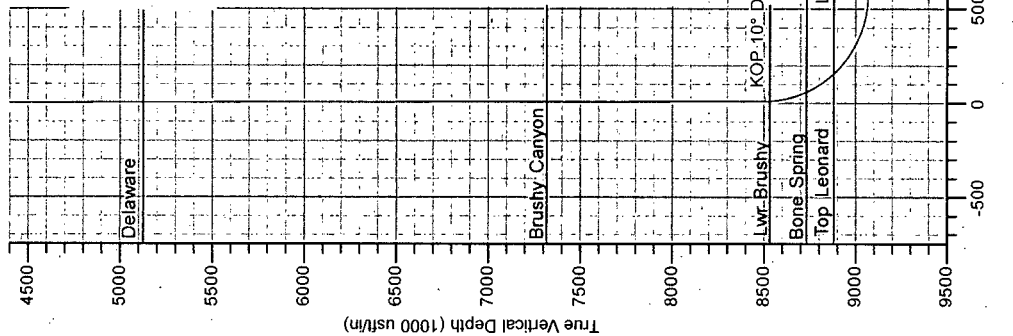
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
SHL (WD17FC 1H)	0.00	0.00	0.00	473183.15	799923.94	32° 17' 53.088 N	103° 29' 47.204 W
PBHL (WD17FC 1H)	9021.00	4681.91	-994.55	477865.06	798929.39	32° 18' 39.491 N	103° 29' 58.366 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSeet	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Nudge
2	3250.00	0.00	0.00	3250.00	0.00	0.00	0.00	0.00	0.00	Hold
3	4250.00	10.00	270.00	4244.93	0.00	-87.05	1.00	270.00	1.03	KOP 10° DLS
4	8577.00	10.00	270.00	8506.19	0.00	-838.42	0.00	0.00	9.95	LP
5	9482.42	90.67	359.32	9069.04	578.32	-945.74	10.00	89.21	589.51	TD
6	13586.58	90.67	359.32	9021.00	4681.91	-994.55	0.00	0.00	4693.38	

FORMATION TOP DETAILS

TVDPath	MDPath	Formation	DipAngle	DipDir
1225.00	1225.00	Top Salt	0.00	
5125.00	5143.65	Delaware	0.00	
7318.00	7370.48	Brushy Canyon	0.00	
8531.00	8602.20	Lwr Brushy	0.00	
8732.00	8813.02	Bone Spring	0.00	
8880.00	8992.36	Top Leonard	0.00	



LEAM DRILLING SYSTEMS LLC
 2010 East Davis, Conroe, Texas 77301
 Phone: 936/756-7577, Fax 936/756-7595

Plan: Plan #1 (1H/CH)
 While Dove 17 Fed Com
 Created By: Brady Deaver
 Date: 8/09, October 27 2015
 Approved: _____
 Date: _____

JAN 1 2 2016



DEVON ENERGY

Lea County, NM (NAD-83)

White Dove 17 Fed Com

1H

OH

Plan: Plan #1

Standard Planning Report

27 October, 2015





LEAM Drilling Systems LLC
Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 1H
Company:	DEVON ENERGY	TVD Reference:	3479.1' GL + 25' RKB @ 3504.10usft
Project:	Lea County, NM (NAD-83)	MD Reference:	3479.1' GL + 25' RKB @ 3504.10usft
Site:	White Dove 17 Fed Com	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:	White Dove 17 Fed Com			
Site Position:		Northing:	473,183.15 usft	Latitude: 32° 17' 53.088 N
From:	Map	Easting:	799,923.94 usft	Longitude: 103° 29' 47.204 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence: 0.45 °

Well:	1H			
Well Position	+N/-S	0.00 usft	Northing:	473,183.15 usft
	+E/-W	0.00 usft	Easting:	799,923.94 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	3,504.10 usft	Ground Level: 3,479.10 usft

Wellbore:	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2014	5/15/2015	7.25	60.16	48,223

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	359.32

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	
3,250.00	0.00	0.00	3,250.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,250.00	10.00	270.00	4,244.93	0.00	-87.05	1.00	1.00	0.00	270.00	
8,577.00	10.00	270.00	8,506.19	0.00	-838.42	0.00	0.00	0.00	0.00	
9,482.42	90.67	359.32	9,069.04	578.32	-945.74	10.00	8.91	9.86	89.21	
13,586.58	90.67	359.32	9,021.00	4,681.91	-994.55	0.00	0.00	0.00	0.00	PBHL (WD17FC 1H)



LEAM Drilling Systems LLC
Planning Report



Database:	EDM 5000.1 Single User.Db	Local Co-ordinate Reference:	Well: 1H
Company:	DEVON ENERGY	TVD Reference:	3479.1' GL + 25' RKB @ 3504.10usft
Project:	Lea County, NM (NAD-83)	MD Reference:	3479.1' GL + 25' RKB @ 3504.10usft
Site:	White Dove 17 Fed Com	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 (WD17FC 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
1,100.00	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
1,225.00	0.00	0.00	1,225.00	0.00	0.00	0.00	0.00	0.00	0.00
Top Salt									
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
3,250.00	0.00	0.00	3,250.00	0.00	0.00	0.00	0.00	0.00	0.00
Nudge									
3,300.00	0.50	270.00	3,300.00	0.00	-0.22	0.00	1.00	1.00	0.00
3,400.00	1.50	270.00	3,399.98	0.00	-1.96	0.02	1.00	1.00	0.00
3,500.00	2.50	270.00	3,499.92	0.00	-5.45	0.06	1.00	1.00	0.00
3,600.00	3.50	270.00	3,599.78	0.00	-10.69	0.13	1.00	1.00	0.00
3,700.00	4.50	270.00	3,699.54	0.00	-17.66	0.21	1.00	1.00	0.00
3,800.00	5.50	270.00	3,799.16	0.00	-26.38	0.31	1.00	1.00	0.00
3,900.00	6.50	270.00	3,898.61	0.00	-36.83	0.44	1.00	1.00	0.00
4,000.00	7.50	270.00	3,997.86	0.00	-49.02	0.58	1.00	1.00	0.00
4,100.00	8.50	270.00	4,096.89	0.00	-62.93	0.75	1.00	1.00	0.00
4,200.00	9.50	270.00	4,195.65	0.00	-78.58	0.93	1.00	1.00	0.00
4,250.00	10.00	270.00	4,244.93	0.00	-87.05	1.03	1.00	1.00	0.00
Hold									
4,300.00	10.00	270.00	4,294.17	0.00	-95.73	1.14	0.00	0.00	0.00
4,400.00	10.00	270.00	4,392.65	0.00	-113.09	1.34	0.00	0.00	0.00
4,500.00	10.00	270.00	4,491.13	0.00	-130.46	1.55	0.00	0.00	0.00
4,600.00	10.00	270.00	4,589.61	0.00	-147.82	1.75	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:	3479.1' GL + 25' RKB @ 3504.10usft
Project:	Lea County, NM (NAD-83)	MD Reference:	3479.1' GL + 25' RKB @ 3504.10usft
Site:	White Dove 17 Fed.Com	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)
4,700.00	10.00	270.00	4,688.09	0.00	-165.19	1.96	0.00	0.00	0.00
4,800.00	10.00	270.00	4,786.58	0.00	-182.55	2.17	0.00	0.00	0.00
4,900.00	10.00	270.00	4,885.06	0.00	-199.92	2.37	0.00	0.00	0.00
5,000.00	10.00	270.00	4,983.54	0.00	-217.28	2.58	0.00	0.00	0.00
5,100.00	10.00	270.00	5,082.02	0.00	-234.65	2.78	0.00	0.00	0.00
5,143.65	10.00	270.00	5,125.00	0.00	-242.23	2.87	0.00	0.00	0.00
Delaware									
5,200.00	10.00	270.00	5,180.50	0.00	-252.01	2.99	0.00	0.00	0.00
5,300.00	10.00	270.00	5,278.98	0.00	-269.38	3.20	0.00	0.00	0.00
5,400.00	10.00	270.00	5,377.46	0.00	-286.74	3.40	0.00	0.00	0.00
5,500.00	10.00	270.00	5,475.94	0.00	-304.11	3.61	0.00	0.00	0.00
5,600.00	10.00	270.00	5,574.42	0.00	-321.47	3.82	0.00	0.00	0.00
5,700.00	10.00	270.00	5,672.90	0.00	-338.84	4.02	0.00	0.00	0.00
5,800.00	10.00	270.00	5,771.38	0.00	-356.20	4.23	0.00	0.00	0.00
5,900.00	10.00	270.00	5,869.86	0.00	-373.56	4.43	0.00	0.00	0.00
6,000.00	10.00	270.00	5,968.34	0.00	-390.93	4.64	0.00	0.00	0.00
6,100.00	10.00	270.00	6,066.83	0.00	-408.29	4.85	0.00	0.00	0.00
6,200.00	10.00	270.00	6,165.31	0.00	-425.66	5.05	0.00	0.00	0.00
6,300.00	10.00	270.00	6,263.79	0.00	-443.02	5.26	0.00	0.00	0.00
6,400.00	10.00	270.00	6,362.27	0.00	-460.39	5.46	0.00	0.00	0.00
6,500.00	10.00	270.00	6,460.75	0.00	-477.75	5.67	0.00	0.00	0.00
6,600.00	10.00	270.00	6,559.23	0.00	-495.12	5.88	0.00	0.00	0.00
6,700.00	10.00	270.00	6,657.71	0.00	-512.48	6.08	0.00	0.00	0.00
6,800.00	10.00	270.00	6,756.19	0.00	-529.85	6.29	0.00	0.00	0.00
6,900.00	10.00	270.00	6,854.67	0.00	-547.21	6.49	0.00	0.00	0.00
7,000.00	10.00	270.00	6,953.15	0.00	-564.58	6.70	0.00	0.00	0.00
7,100.00	10.00	270.00	7,051.63	0.00	-581.94	6.91	0.00	0.00	0.00
7,200.00	10.00	270.00	7,150.11	0.00	-599.31	7.11	0.00	0.00	0.00
7,300.00	10.00	270.00	7,248.59	0.00	-616.67	7.32	0.00	0.00	0.00
7,370.48	10.00	270.00	7,318.00	0.00	-628.91	7.46	0.00	0.00	0.00
Brushy Canyon									
7,400.00	10.00	270.00	7,347.08	0.00	-634.04	7.52	0.00	0.00	0.00
7,500.00	10.00	270.00	7,445.56	0.00	-651.40	7.73	0.00	0.00	0.00
7,600.00	10.00	270.00	7,544.04	0.00	-668.77	7.94	0.00	0.00	0.00
7,700.00	10.00	270.00	7,642.52	0.00	-686.13	8.14	0.00	0.00	0.00
7,800.00	10.00	270.00	7,741.00	0.00	-703.50	8.35	0.00	0.00	0.00
7,900.00	10.00	270.00	7,839.48	0.00	-720.86	8.56	0.00	0.00	0.00
8,000.00	10.00	270.00	7,937.96	0.00	-738.23	8.76	0.00	0.00	0.00
8,100.00	10.00	270.00	8,036.44	0.00	-755.59	8.97	0.00	0.00	0.00
8,200.00	10.00	270.00	8,134.92	0.00	-772.96	9.17	0.00	0.00	0.00
8,300.00	10.00	270.00	8,233.40	0.00	-790.32	9.38	0.00	0.00	0.00
8,400.00	10.00	270.00	8,331.88	0.00	-807.69	9.59	0.00	0.00	0.00
8,500.00	10.00	270.00	8,430.36	0.00	-825.05	9.79	0.00	0.00	0.00
8,577.00	10.00	270.00	8,506.19	0.00	-838.42	9.95	0.00	0.00	0.00
KOP 10° DLS									
8,600.00	10.29	282.98	8,528.84	0.46	-842.42	10.46	10.00	1.26	56.45
8,602.20	10.34	284.17	8,531.00	0.55	-842.80	10.56	10.00	2.45	54.15
Lwr Brushy									
8,650.00	12.44	306.14	8,577.88	4.64	-851.13	14.74	10.00	4.39	45.96
8,700.00	15.91	320.99	8,626.37	13.15	-859.79	23.35	10.00	6.94	29.70
8,750.00	20.02	330.27	8,673.93	25.92	-868.36	36.22	10.00	8.23	18.56
8,800.00	24.46	336.40	8,720.20	42.85	-876.75	53.25	10.00	8.87	12.25
8,813.02	25.65	337.66	8,732.00	47.93	-878.91	58.35	10.00	9.12	9.69



LEAM Drilling Systems LLC
Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 1H
Company:	DEVON ENERGY	TVD Reference:	3479.1' GL + 25' RKB @ 3504.10usft
Project:	Lea County, NM (NAD-83)	MD Reference:	3479.1' GL + 25' RKB @ 3504.10usft
Site:	White Dove 17 Fed Com	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)
Bone Spring									
8,850.00	29.07	340.71	8,764.84	63.81	-884.92	74.31	10.00	9.26	8.25
8,900.00	33.78	343.92	8,807.49	88.65	-892.79	99.24	10.00	9.43	6.42
8,950.00	38.56	346.42	8,847.85	117.17	-900.30	127.85	10.00	9.56	5.00
8,992.36	42.64	348.16	8,880.00	144.06	-906.34	154.81	10.00	9.64	4.11
Top Leonard									
9,000.00	43.38	348.45	8,885.59	149.17	-907.40	159.92	10.00	9.67	3.73
9,050.00	48.23	350.14	8,920.43	184.38	-914.04	195.22	10.00	9.70	3.39
9,100.00	53.11	351.59	8,952.11	222.56	-920.16	233.46	10.00	9.74	2.91
9,150.00	57.99	352.87	8,980.39	263.40	-925.71	274.37	10.00	9.78	2.56
9,200.00	62.89	354.02	9,005.05	306.59	-930.66	317.62	10.00	9.80	2.30
9,250.00	67.80	355.07	9,025.90	351.82	-934.97	362.89	10.00	9.82	2.10
9,300.00	72.71	356.06	9,042.78	398.72	-938.60	409.83	10.00	9.83	1.96
9,350.00	77.63	356.98	9,055.58	446.95	-941.53	458.10	10.00	9.84	1.86
9,400.00	82.55	357.88	9,064.18	496.14	-943.73	507.31	10.00	9.84	1.79
9,450.00	87.48	358.76	9,068.52	545.92	-945.19	557.10	10.00	9.85	1.75
9,482.42	90.67	359.32	9,069.04	578.32	-945.74	589.51	10.00	9.85	1.74
LP									
9,500.00	90.67	359.32	9,068.84	595.90	-945.95	607.09	0.00	0.00	0.00
9,600.00	90.67	359.32	9,067.67	695.89	-947.14	707.08	0.00	0.00	0.00
9,700.00	90.67	359.32	9,066.49	795.87	-948.33	807.07	0.00	0.00	0.00
9,800.00	90.67	359.32	9,065.32	895.86	-949.52	907.06	0.00	0.00	0.00
9,900.00	90.67	359.32	9,064.15	995.84	-950.71	1,007.06	0.00	0.00	0.00
10,000.00	90.67	359.32	9,062.98	1,095.83	-951.89	1,107.05	0.00	0.00	0.00
10,100.00	90.67	359.32	9,061.81	1,195.82	-953.08	1,207.04	0.00	0.00	0.00
10,200.00	90.67	359.32	9,060.64	1,295.80	-954.27	1,307.04	0.00	0.00	0.00
10,300.00	90.67	359.32	9,059.47	1,395.79	-955.46	1,407.03	0.00	0.00	0.00
10,400.00	90.67	359.32	9,058.30	1,495.78	-956.65	1,507.02	0.00	0.00	0.00
10,500.00	90.67	359.32	9,057.13	1,595.76	-957.84	1,607.02	0.00	0.00	0.00
10,600.00	90.67	359.32	9,055.96	1,695.75	-959.03	1,707.01	0.00	0.00	0.00
10,700.00	90.67	359.32	9,054.79	1,795.73	-960.22	1,807.00	0.00	0.00	0.00
10,800.00	90.67	359.32	9,053.62	1,895.72	-961.41	1,907.00	0.00	0.00	0.00
10,900.00	90.67	359.32	9,052.45	1,995.71	-962.60	2,006.99	0.00	0.00	0.00
11,000.00	90.67	359.32	9,051.28	2,095.69	-963.79	2,106.98	0.00	0.00	0.00
11,100.00	90.67	359.32	9,050.11	2,195.68	-964.98	2,206.98	0.00	0.00	0.00
11,200.00	90.67	359.32	9,048.94	2,295.66	-966.17	2,306.97	0.00	0.00	0.00
11,300.00	90.67	359.32	9,047.77	2,395.65	-967.36	2,406.96	0.00	0.00	0.00
11,400.00	90.67	359.32	9,046.60	2,495.64	-968.54	2,506.95	0.00	0.00	0.00
11,500.00	90.67	359.32	9,045.42	2,595.62	-969.73	2,606.95	0.00	0.00	0.00
11,600.00	90.67	359.32	9,044.25	2,695.61	-970.92	2,706.94	0.00	0.00	0.00
11,700.00	90.67	359.32	9,043.08	2,795.59	-972.11	2,806.93	0.00	0.00	0.00
11,800.00	90.67	359.32	9,041.91	2,895.58	-973.30	2,906.93	0.00	0.00	0.00
11,900.00	90.67	359.32	9,040.74	2,995.57	-974.49	3,006.92	0.00	0.00	0.00
12,000.00	90.67	359.32	9,039.57	3,095.55	-975.68	3,106.91	0.00	0.00	0.00
12,100.00	90.67	359.32	9,038.40	3,195.54	-976.87	3,206.91	0.00	0.00	0.00
12,200.00	90.67	359.32	9,037.23	3,295.52	-978.06	3,306.90	0.00	0.00	0.00
12,300.00	90.67	359.32	9,036.06	3,395.51	-979.25	3,406.89	0.00	0.00	0.00
12,400.00	90.67	359.32	9,034.89	3,495.50	-980.44	3,506.89	0.00	0.00	0.00
12,500.00	90.67	359.32	9,033.72	3,595.48	-981.63	3,606.88	0.00	0.00	0.00
12,600.00	90.67	359.32	9,032.55	3,695.47	-982.82	3,706.87	0.00	0.00	0.00
12,700.00	90.67	359.32	9,031.38	3,795.46	-984.01	3,806.87	0.00	0.00	0.00
12,800.00	90.67	359.32	9,030.21	3,895.44	-985.20	3,906.86	0.00	0.00	0.00
12,900.00	90.67	359.32	9,029.04	3,995.43	-986.38	4,006.85	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:	3479.1' GL + 25' RKB @ 3504.10usft
Project:	Lea County, NM (NAD-83)	MD Reference:	3479.1' GL + 25' RKB @ 3504.10usft
Site:	White Dove 17 Fed Com	North Reference:	Grid
Well:	1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

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)
13,000.00	90.67	359.32	9,027.87	4,095.41	-987.57	4,106.85	0.00	0.00	0.00
13,100.00	90.67	359.32	9,026.70	4,195.40	-988.76	4,206.84	0.00	0.00	0.00
13,200.00	90.67	359.32	9,025.53	4,295.39	-989.95	4,306.83	0.00	0.00	0.00
13,300.00	90.67	359.32	9,024.35	4,395.37	-991.14	4,406.82	0.00	0.00	0.00
13,400.00	90.67	359.32	9,023.18	4,495.36	-992.33	4,506.82	0.00	0.00	0.00
13,500.00	90.67	359.32	9,022.01	4,595.34	-993.52	4,606.81	0.00	0.00	0.00
13,586.58	90.67	359.32	9,021.00	4,681.91	-994.55	4,693.38	0.00	0.00	0.00
TD - PBHL (WD17FC 1H)									

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SHL (WD17FC 1H) - hit/miss target - plan hits target center - Point	0.00	0.00	0.00	0.00	0.00	473,183.15	799,923.94	32° 17' 53.088 N	103° 29' 47.204 W
PBHL (WD17FC 1H) - plan hits target center - Point	0.00	0.00	9,021.00	4,681.91	-994.55	477,865.06	798,929.39	32° 18' 39.491 N	103° 29' 58.366 W

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,225.00	1,225.00	Top Salt		0.00	
5,143.65	5,125.00	Delaware		0.00	
7,370.48	7,318.00	Brushy Canyon		0.00	
8,602.20	8,531.00	Lwr Brushy		0.00	
8,813.02	8,732.00	Bone Spring		0.00	
8,992.36	8,880.00	Top Leonard		0.00	

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
3,250.00	3,250.00	0.00	0.00	Nudge
4,250.00	4,244.93	0.00	-87.05	Hold
8,577.00	8,506.19	0.00	-838.42	KOP 10° DLS
9,482.42	9,069.04	578.32	-945.74	LP
13,586.58	9,021.00	4,681.91	-994.55	TD



DEVON ENERGY

Lea County, NM (NAD-83)
White Dove 17 Fed Com
1H

OH
Plan #1

Anticollision Report

27 October, 2015





LEAM Drilling Systems LLC
Anticollision Report



Company:	DEVON ENERGY	Local Co-ordinate Reference:	Site White Dove 17 Fed Com
Project:	Lea County, NM (NAD-83)	TVD Reference:	3479.1' GL + 25' RKB @ 3504.10usft
Reference Site:	White Dove 17 Fed Com	MD Reference:	3479.1' GL + 25' RKB @ 3504.10usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore:	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Reference	Plan #1		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 9,999.98 usft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program		Date	10/27/2015		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	13,586.58	Plan #1 (OH)	LEAM MWD-ADJ	MWD - Standard	

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
White Dove 17 Fed Com						
2H - OH - Plan #1	3,250.00	3,250.00	50.04	35.71	3.492	CC, ES
2H - OH - Plan #1	3,300.00	3,300.00	50.26	35.71	3.455	SF
Paloma Blanco 17 Fed 1 (offset) - OH - OH	11,933.15	8,998.31	481.79	403.86	6.182	CC, ES
Paloma Blanco 17 Fed 1 (offset) - OH - OH	12,000.00	8,997.52	486.41	407.34	6.152	SF

Offset Design White Dove 17 Fed Com - 2H - OH - Plan #1													Offset Site Error: 0.00 usft
Survey Program: 0-LEAM MWD-ADJ													Offset Well Error: 0.00 usft
Reference	Vertical Depth (usft)	Offset	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre N-S (usft)	Offset Wellbore Centre E-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	0.00	0.00	0.00	0.00	0.00	89.63	0.32	50.04	50.04				
	100.00	100.00	100.00	0.08	0.08	89.63	0.32	50.04	50.04	49.87	0.17	296.848	
	200.00	200.00	200.00	0.31	0.31	89.63	0.32	50.04	50.04	49.42	0.62	80.959	
	300.00	300.00	300.00	0.53	0.53	89.63	0.32	50.04	50.04	48.97	1.07	46.871	
	400.00	400.00	400.00	0.76	0.76	89.63	0.32	50.04	50.04	48.52	1.52	32.983	
	500.00	500.00	500.00	0.98	0.98	89.63	0.32	50.04	50.04	48.07	1.97	25.444	
	600.00	600.00	600.00	1.21	1.21	89.63	0.32	50.04	50.04	47.62	2.42	20.710	
	700.00	700.00	700.00	1.43	1.43	89.63	0.32	50.04	50.04	47.18	2.87	17.462	
	800.00	800.00	800.00	1.66	1.66	89.63	0.32	50.04	50.04	46.73	3.32	15.094	
	900.00	900.00	900.00	1.88	1.88	89.63	0.32	50.04	50.04	46.28	3.76	13.292	
	1,000.00	1,000.00	1,000.00	2.11	2.11	89.63	0.32	50.04	50.04	45.83	4.21	11.874	
	1,100.00	1,100.00	1,100.00	2.33	2.33	89.63	0.32	50.04	50.04	45.38	4.66	10.729	
	1,200.00	1,200.00	1,200.00	2.56	2.56	89.63	0.32	50.04	50.04	44.93	5.11	9.786	
	1,300.00	1,300.00	1,300.00	2.78	2.78	89.63	0.32	50.04	50.04	44.48	5.56	8.995	
	1,400.00	1,400.00	1,400.00	3.01	3.01	89.63	0.32	50.04	50.04	44.03	6.01	8.323	
	1,500.00	1,500.00	1,500.00	3.23	3.23	89.63	0.32	50.04	50.04	43.58	6.46	7.744	
	1,600.00	1,600.00	1,600.00	3.46	3.46	89.63	0.32	50.04	50.04	43.13	6.91	7.240	
	1,700.00	1,700.00	1,700.00	3.68	3.68	89.63	0.32	50.04	50.04	42.68	7.36	6.798	
	1,800.00	1,800.00	1,800.00	3.91	3.91	89.63	0.32	50.04	50.04	42.23	7.81	6.407	
	1,900.00	1,900.00	1,900.00	4.13	4.13	89.63	0.32	50.04	50.04	41.78	8.26	6.058	
	2,000.00	2,000.00	2,000.00	4.35	4.35	89.63	0.32	50.04	50.04	41.33	8.71	5.745	
	2,100.00	2,100.00	2,100.00	4.58	4.58	89.63	0.32	50.04	50.04	40.88	9.16	5.463	
	2,200.00	2,200.00	2,200.00	4.80	4.80	89.63	0.32	50.04	50.04	40.43	9.61	5.208	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



LEAM Drilling Systems LLC
Anticollision Report



Company:	DEVON ENERGY	Local Co-ordinate Reference:	Site White Dove 17 Fed Com
Project:	Lea County, NM (NAD-83)	TVD Reference:	3479.1' GL + 25' RKB @ 3504.10usft
Reference Site:	White Dove 17 Fed Com	MD Reference:	3479.1' GL + 25' RKB @ 3504.10usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore:	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design: White Dove 17 Fed Com - 2H - OH - Plan #1													Offset Site Error:	0.00 usft
Survey Program: O-LEAM MWD-ADJ													Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis		Distance		Minimum		Separation		Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre N-S (usft)	Offset Wellbore Centre E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
2,300.00	2,300.00	2,300.00	2,300.00	5.03	5.03	89.63	0.32	50.04	50.04	39.98	10.06	4.975		
2,400.00	2,400.00	2,400.00	2,400.00	5.25	5.25	89.63	0.32	50.04	50.04	39.53	10.51	4.762		
2,500.00	2,500.00	2,500.00	2,500.00	5.48	5.48	89.63	0.32	50.04	50.04	39.08	10.96	4.567		
2,600.00	2,600.00	2,600.00	2,600.00	5.70	5.70	89.63	0.32	50.04	50.04	38.63	11.41	4.387		
2,700.00	2,700.00	2,700.00	2,700.00	5.93	5.93	89.63	0.32	50.04	50.04	38.18	11.86	4.221		
2,800.00	2,800.00	2,800.00	2,800.00	6.15	6.15	89.63	0.32	50.04	50.04	37.74	12.31	4.066		
2,900.00	2,900.00	2,900.00	2,900.00	6.38	6.38	89.63	0.32	50.04	50.04	37.29	12.76	3.923		
3,000.00	3,000.00	3,000.00	3,000.00	6.60	6.60	89.63	0.32	50.04	50.04	36.84	13.21	3.790		
3,100.00	3,100.00	3,100.00	3,100.00	6.83	6.83	89.63	0.32	50.04	50.04	36.39	13.65	3.665		
3,200.00	3,200.00	3,200.00	3,200.00	7.05	7.05	89.63	0.32	50.04	50.04	35.94	14.10	3.548		
3,250.00	3,250.00	3,250.00	3,250.00	7.16	7.16	89.63	0.32	50.04	50.04	35.71	14.33	3.492 CC, ES		
3,300.00	3,300.00	3,300.00	3,300.00	7.27	7.28	179.64	0.32	50.04	50.26	35.71	14.55	3.455 SF		
3,400.00	3,399.98	3,399.98	3,399.98	7.47	7.50	179.65	0.32	50.04	52.00	37.04	14.96	3.476		
3,500.00	3,499.92	3,499.92	3,499.92	7.67	7.73	179.67	0.32	50.04	55.49	40.12	15.38	3.609		
3,600.00	3,599.78	3,599.78	3,599.78	7.87	7.95	179.70	0.32	50.04	60.73	44.94	15.79	3.847		
3,700.00	3,699.54	3,699.54	3,699.54	8.08	8.17	179.73	0.32	50.04	67.70	51.51	16.19	4.181		
3,800.00	3,799.16	3,799.16	3,799.16	8.29	8.40	179.76	0.32	50.04	76.42	59.82	16.60	4.605		
3,900.00	3,898.61	3,898.61	3,898.61	8.51	8.62	179.79	0.32	50.04	86.87	69.88	16.99	5.112		
4,000.00	3,997.86	3,997.86	3,997.86	8.74	8.85	179.81	0.32	50.04	99.06	81.67	17.39	5.697		
4,100.00	4,096.89	4,096.89	4,096.89	8.97	9.07	179.84	0.32	50.04	112.97	95.20	17.78	6.355		
4,200.00	4,195.65	4,195.65	4,195.65	9.22	9.29	179.86	0.32	50.04	128.62	110.46	18.16	7.082		
4,250.00	4,244.93	4,244.93	4,244.93	9.35	9.40	179.86	0.32	50.04	137.09	118.73	18.35	7.470		
4,300.00	4,294.17	4,294.17	4,294.17	9.48	9.51	179.87	0.32	50.04	145.77	127.20	18.57	7.851		
4,400.00	4,392.65	4,392.65	4,392.65	9.75	9.73	179.89	0.32	50.04	163.13	144.13	19.00	8.586		
4,500.00	4,491.13	4,491.13	4,491.13	10.03	9.95	179.90	0.32	50.04	180.50	161.06	19.43	9.287		
4,600.00	4,589.61	4,589.61	4,589.61	10.32	10.18	179.91	0.32	50.04	197.86	177.99	19.87	9.957		
4,700.00	4,688.09	4,688.09	4,688.09	10.61	10.40	179.91	0.32	50.04	215.23	194.92	20.31	10.597		
4,800.00	4,786.58	4,786.58	4,786.58	10.91	10.62	179.92	0.32	50.04	232.59	211.84	20.75	11.209		
4,900.00	4,885.06	4,885.06	4,885.06	11.21	10.84	179.93	0.32	50.04	249.96	228.76	21.19	11.794		
5,000.00	4,983.54	4,983.54	4,983.54	11.52	11.06	179.93	0.32	50.04	267.32	245.68	21.64	12.355		
5,100.00	5,082.02	5,082.02	5,082.02	11.84	11.28	179.93	0.32	50.04	284.69	262.60	22.08	12.892		
5,200.00	5,180.50	5,180.50	5,180.50	12.16	11.50	179.94	0.32	50.04	302.05	279.52	22.53	13.407		
5,300.00	5,278.98	5,278.98	5,278.98	12.48	11.72	179.94	0.32	50.04	319.42	296.44	22.98	13.902		
5,400.00	5,377.46	5,377.46	5,377.46	12.81	11.95	179.94	0.32	50.04	336.78	313.36	23.43	14.377		
5,500.00	5,475.94	5,475.94	5,475.94	13.14	12.17	179.95	0.32	50.04	354.15	330.27	23.88	14.833		
5,600.00	5,574.42	5,574.42	5,574.42	13.47	12.39	179.95	0.32	50.04	371.51	347.18	24.33	15.272		
5,700.00	5,672.90	5,672.90	5,672.90	13.81	12.61	179.95	0.32	50.04	388.88	364.10	24.78	15.694		
5,800.00	5,771.38	5,771.38	5,771.38	14.15	12.83	179.95	0.32	50.04	406.24	381.01	25.23	16.100		
5,900.00	5,869.86	5,869.86	5,869.86	14.49	13.05	179.96	0.32	50.04	423.60	397.92	25.69	16.492		
6,000.00	5,968.34	5,968.34	5,968.34	14.83	13.27	179.96	0.32	50.04	440.97	414.83	26.14	16.869		
6,100.00	6,066.83	6,066.83	6,066.83	15.18	13.50	179.96	0.32	50.04	458.33	431.74	26.60	17.233		
6,200.00	6,165.31	6,165.31	6,165.31	15.53	13.72	179.96	0.32	50.04	475.70	448.65	27.05	17.584		
6,300.00	6,263.79	6,263.79	6,263.79	15.88	13.94	179.96	0.32	50.04	493.06	465.55	27.51	17.923		
6,400.00	6,362.27	6,362.27	6,362.27	16.23	14.16	179.96	0.32	50.04	510.43	482.46	27.97	18.251		
6,500.00	6,460.75	6,460.75	6,460.75	16.59	14.38	179.96	0.32	50.04	527.79	499.37	28.43	18.567		
6,600.00	6,559.23	6,559.23	6,559.23	16.94	14.60	179.97	0.32	50.04	545.16	516.27	28.89	18.873		
6,700.00	6,657.71	6,657.71	6,657.71	17.30	14.82	179.97	0.32	50.04	562.52	533.18	29.35	19.169		
6,800.00	6,756.19	6,756.19	6,756.19	17.66	15.05	179.97	0.32	50.04	579.89	550.08	29.81	19.456		
6,900.00	6,854.67	6,854.67	6,854.67	18.02	15.27	179.97	0.32	50.04	597.25	566.99	30.27	19.733		
7,000.00	6,953.15	6,953.15	6,953.15	18.38	15.49	179.97	0.32	50.04	614.62	583.89	30.73	20.002		
7,100.00	7,051.63	7,051.63	7,051.63	18.74	15.71	179.97	0.32	50.04	631.98	600.79	31.19	20.263		
7,200.00	7,150.11	7,150.11	7,150.11	19.11	15.93	179.97	0.32	50.04	649.35	617.70	31.65	20.515		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



LEAM Drilling Systems LLC
Anticollision Report



Company:	DEVON ENERGY	Local Co-ordinate Reference:	Site White Dove 17 Fed Com
Project:	Lea County, NM (NAD-83)	TVD Reference:	3479.1' GL + 25' RKB @ 3504.10usft
Reference Site:	White Dove 17 Fed Com	MD Reference:	3479.1' GL + 25' RKB @ 3504.10usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore:	OH	Database:	EDM 5000.1: Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design: White Dove 17 Fed Com - 2H - OH - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-LEAM MWD-ADJ													Offset Well Error:	0.00 usft
Reference	Vertical	Offset	Vertical	Semi Major Axis		Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning	
Measured	Depth	Depth	Depth	Reference	Offset	Toolface	+N/S	+E/W	Between	Between	Separation	Factor		
Depth	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	Centres	Ellipses	(usft)			
7,300.00	7,248.59	7,248.59	7,248.59	19.47	16.15	179.97	0.32	50.04	666.71	634.60	32.12	20.760		
7,400.00	7,347.08	7,347.08	7,347.08	19.84	16.37	179.97	0.32	50.04	684.08	651.50	32.58	20.998		
7,500.00	7,445.56	7,445.56	7,445.56	20.21	16.59	179.97	0.32	50.04	701.44	668.40	33.04	21.229		
7,600.00	7,544.04	7,544.04	7,544.04	20.57	16.82	179.97	0.32	50.04	718.81	685.30	33.51	21.453		
7,700.00	7,642.52	7,642.52	7,642.52	20.94	17.04	179.97	0.32	50.04	736.17	702.20	33.97	21.671		
7,800.00	7,741.00	7,741.00	7,741.00	21.31	17.26	179.98	0.32	50.04	753.54	719.10	34.44	21.882		
7,900.00	7,839.48	7,839.48	7,839.48	21.68	17.48	179.98	0.32	50.04	770.90	736.00	34.90	22.088		
8,000.00	7,937.96	7,937.96	7,937.96	22.05	17.70	179.98	0.32	50.04	788.27	752.90	35.37	22.288		
8,100.00	8,036.44	8,036.44	8,036.44	22.42	17.92	179.98	0.32	50.04	805.63	769.80	35.83	22.483		
8,200.00	8,134.92	8,134.92	8,134.92	22.80	18.14	179.98	0.32	50.04	823.00	786.70	36.30	22.672		
8,300.00	8,233.40	8,233.40	8,233.40	23.17	18.37	179.98	0.32	50.04	840.36	803.59	36.77	22.857		
8,400.00	8,331.88	8,331.88	8,331.88	23.54	18.59	179.98	0.32	50.04	857.73	820.49	37.23	23.036		
8,500.00	8,430.36	8,430.36	8,430.36	23.92	18.81	179.98	0.32	50.04	875.09	837.39	37.70	23.211		
8,577.00	8,506.19	8,506.19	8,506.19	24.21	18.98	179.98	0.32	50.04	888.46	850.40	38.06	23.343		
8,600.00	8,528.84	8,528.84	8,528.84	24.29	19.03	166.82	0.32	50.04	892.46	854.29	38.17	23.384		
8,650.00	8,577.88	8,577.88	8,577.88	24.46	19.14	143.48	0.32	50.04	901.18	862.78	38.40	23.470		
8,700.00	8,626.37	8,626.37	8,626.37	24.63	19.25	128.72	0.32	50.04	909.92	871.29	38.63	23.554		
8,750.00	8,673.93	8,673.93	8,673.93	24.80	19.36	119.76	0.32	50.04	918.76	879.89	38.87	23.639		
8,800.00	8,720.20	8,720.20	8,720.20	24.97	19.46	114.16	0.32	50.04	927.77	888.67	39.10	23.730		
8,850.00	8,764.84	8,764.84	8,764.84	25.14	19.56	110.51	0.32	50.04	937.11	897.79	39.32	23.832		
8,900.00	8,807.49	8,807.49	8,807.49	25.31	19.66	108.07	0.32	50.04	946.95	907.41	39.54	23.947		
8,950.00	8,847.85	8,847.85	8,847.85	25.48	19.75	106.37	0.32	50.04	957.50	917.73	39.77	24.077		
9,000.00	8,885.59	8,885.59	8,885.59	25.65	19.83	105.12	0.32	50.04	968.94	928.94	40.00	24.224		
9,050.00	8,920.43	8,920.43	8,920.43	25.83	19.91	104.10	0.32	50.04	981.49	941.24	40.25	24.386		
9,100.00	8,952.11	8,952.11	8,952.11	26.01	19.98	103.18	0.32	50.04	995.32	954.80	40.53	24.560		
9,150.00	8,980.39	8,980.39	8,980.39	26.20	20.04	102.21	0.32	50.04	1,010.59	969.75	40.84	24.743		
9,200.00	9,005.05	9,005.05	9,005.05	26.40	20.10	101.11	0.32	50.04	1,027.41	986.21	41.21	24.933		
9,250.00	9,025.90	9,025.90	9,025.90	26.62	20.15	99.80	0.32	50.04	1,045.85	1,004.23	41.62	25.130		
9,300.00	9,042.78	9,042.78	9,042.78	26.86	20.18	98.21	0.32	50.04	1,065.90	1,023.83	42.06	25.339		
9,350.00	9,055.58	9,055.58	9,055.58	27.11	20.21	96.30	0.32	50.04	1,087.52	1,045.00	42.52	25.575		
9,400.00	9,064.18	9,064.18	9,064.18	27.39	20.23	94.05	0.32	50.04	1,110.60	1,067.65	42.95	25.858		
9,450.00	9,068.52	9,068.52	9,068.52	27.68	20.24	91.45	0.32	50.04	1,134.97	1,091.68	43.30	26.213		
9,482.42	9,069.04	9,069.04	9,069.04	27.88	20.24	89.60	0.32	50.04	1,151.38	1,107.92	43.45	26.496		
9,500.00	9,068.84	9,068.84	9,068.84	27.99	20.24	89.59	0.32	50.04	1,160.48	1,116.87	43.60	26.615		
9,600.00	9,067.67	9,067.67	9,067.67	28.70	20.24	89.52	0.32	50.04	1,215.80	1,171.29	44.51	27.315		
9,700.00	9,066.49	9,066.49	9,066.49	29.52	20.24	89.45	0.32	50.04	1,276.57	1,231.06	45.52	28.046		
9,800.00	9,065.32	9,065.32	9,065.32	30.44	20.24	89.38	0.32	50.04	1,342.05	1,295.44	46.61	28.792		
9,900.00	9,064.15	9,064.15	9,064.15	31.44	20.23	89.32	0.32	50.04	1,411.58	1,363.80	47.78	29.541		
10,000.00	9,062.98	9,062.98	9,062.98	32.52	20.23	89.25	0.32	50.04	1,484.59	1,435.57	49.02	30.283		
10,100.00	9,061.81	9,061.81	9,061.81	33.67	20.23	89.18	0.32	50.04	1,560.60	1,510.28	50.32	31.011		
10,200.00	9,060.64	9,060.64	9,060.64	34.88	20.22	89.11	0.32	50.04	1,639.18	1,587.51	51.68	31.721		
10,300.00	9,059.47	9,059.47	9,059.47	36.15	20.22	89.05	0.32	50.04	1,719.99	1,666.92	53.07	32.408		
10,400.00	9,058.30	9,058.30	9,058.30	37.46	20.22	88.98	0.32	50.04	1,802.72	1,748.21	54.51	33.071		
10,500.00	9,057.13	9,057.13	9,057.13	38.82	20.22	88.91	0.32	50.04	1,887.13	1,831.15	55.98	33.709		
10,600.00	9,055.96	12,207.68	10,705.96	40.22	39.22	149.34	1,733.50	18.70	1,918.31	1,867.20	51.10	37.538		
10,700.00	9,054.79	12,307.67	10,704.75	41.65	40.69	149.36	1,833.48	16.89	1,917.95	1,865.08	52.88	36.273		
10,800.00	9,053.62	12,407.67	10,703.53	43.11	42.18	149.37	1,933.45	15.09	1,917.60	1,862.92	54.68	35.069		
10,900.00	9,052.45	12,507.67	10,702.31	44.60	43.71	149.39	2,033.43	13.28	1,917.24	1,860.73	56.52	33.924		
11,000.00	9,051.28	12,607.67	10,701.10	46.11	45.25	149.40	2,133.40	11.47	1,916.89	1,858.51	58.38	32.836		
11,100.00	9,050.11	12,707.67	10,699.88	47.65	46.82	149.42	2,233.38	9.66	1,916.53	1,856.27	60.27	31.801		
11,200.00	9,048.94	12,807.66	10,698.66	49.21	48.40	149.43	2,333.35	7.86	1,916.18	1,854.00	62.17	30.819		
11,300.00	9,047.77	12,907.66	10,697.45	50.78	50.00	149.45	2,433.32	6.05	1,915.82	1,851.72	64.10	29.886		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



LEAM Drilling Systems LLC
Anticollision Report



Company:	DEVON ENERGY	Local Co-ordinate Reference:	Site White Dove 17 Fed Com
Project:	Lea County, NM (NAD-83)	TVD Reference:	3479.1' GL + 25' RKB @ 3504.10usft
Reference Site:	White Dove 17 Fed Com	MD Reference:	3479.1' GL + 25' RKB @ 3504.10usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design: White Dove 17 Fed Com - 2H - OH - Plan #1													Offset Site Error: 0.00 usft
Survey Program: O-LEAM MWD-ADJ													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
11,400.00	9,046.60	13,007.66	10,696.23	52.38	51.62	149.47	2,533.30	4.24	1,915.47	1,849.42	66.05	28.999	
11,500.00	9,045.42	13,107.66	10,695.01	53.98	53.25	149.48	2,633.27	2.43	1,915.12	1,847.10	68.02	28.157	
11,600.00	9,044.25	13,207.66	10,693.80	55.61	54.89	149.50	2,733.25	0.62	1,914.76	1,844.77	70.00	27.356	
11,700.00	9,043.08	13,307.66	10,692.58	57.24	56.55	149.51	2,833.22	-1.18	1,914.41	1,842.42	71.99	26.593	
11,800.00	9,041.91	13,407.65	10,691.37	58.89	58.21	149.53	2,933.20	-2.99	1,914.06	1,840.06	73.99	25.868	
11,900.00	9,040.74	13,507.65	10,690.15	60.54	59.89	149.54	3,033.17	-4.80	1,913.70	1,837.69	76.01	25.177	
12,000.00	9,039.57	13,607.65	10,688.93	62.21	61.57	149.56	3,133.14	-6.61	1,913.35	1,835.31	78.04	24.518	
12,100.00	9,038.40	13,707.65	10,687.72	63.88	63.26	149.57	3,233.12	-8.41	1,913.00	1,832.92	80.08	23.890	
12,200.00	9,037.23	13,807.65	10,686.50	65.57	64.96	149.59	3,333.09	-10.22	1,912.64	1,830.52	82.12	23.291	
12,300.00	9,036.06	13,907.64	10,685.28	67.26	66.67	149.60	3,433.07	-12.03	1,912.29	1,828.12	84.17	22.718	
12,400.00	9,034.89	14,007.64	10,684.07	68.96	68.39	149.62	3,533.04	-13.84	1,911.94	1,825.70	86.24	22.171	
12,500.00	9,033.72	14,107.64	10,682.85	70.66	70.11	149.63	3,633.02	-15.65	1,911.59	1,823.28	88.30	21.648	
12,600.00	9,032.55	14,207.64	10,681.63	72.37	71.83	149.65	3,732.99	-17.45	1,911.23	1,820.86	90.38	21.147	
12,700.00	9,031.38	14,307.64	10,680.42	74.09	73.56	149.66	3,832.96	-19.26	1,910.88	1,818.42	92.46	20.668	
12,800.00	9,030.21	14,407.63	10,679.20	75.81	75.30	149.68	3,932.94	-21.07	1,910.53	1,815.99	94.54	20.208	
12,900.00	9,029.04	14,507.63	10,677.98	77.54	77.04	149.69	4,032.91	-22.88	1,910.18	1,813.55	96.63	19.768	
13,000.00	9,027.87	14,607.63	10,676.77	79.27	78.78	149.71	4,132.89	-24.68	1,909.83	1,811.10	98.73	19.345	
13,100.00	9,026.70	14,707.63	10,675.55	81.01	80.53	149.73	4,232.86	-26.49	1,909.47	1,808.65	100.82	18.939	
13,200.00	9,025.53	14,807.63	10,674.33	82.75	82.28	149.74	4,332.84	-28.30	1,909.12	1,806.20	102.93	18.548	
13,300.00	9,024.35	14,907.62	10,673.12	84.49	84.04	149.76	4,432.81	-30.11	1,908.77	1,803.74	105.03	18.173	
13,400.00	9,023.18	15,007.62	10,671.90	86.24	85.80	149.77	4,532.78	-31.91	1,908.42	1,801.28	107.14	17.812	
13,500.00	9,022.01	15,107.62	10,670.69	87.99	87.56	149.79	4,632.76	-33.72	1,908.07	1,798.82	109.25	17.465	
13,562.13	9,021.29	15,163.93	10,670.00	89.08	88.55	149.80	4,689.06	-34.74	1,907.86	1,797.36	110.51	17.265	
13,586.58	9,021.00	15,163.93	10,670.00	89.51	88.55	149.80	4,689.06	-34.74	1,908.01	1,797.24	110.77	17.225	



LEAM Drilling Systems LLC
Anticollision Report



Company:	DEVON ENERGY	Local Co-ordinate Reference:	Site White Dove 17 Fed Com
Project:	Lea County, NM (NAD-83)	TVD Reference:	3479.1' GL + 25' RKB @ 3504.10usft
Reference Site:	White Dove 17 Fed Com	MD Reference:	3479.1' GL + 25' RKB @ 3504.10usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore:	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design White Dove 17 Fed Com - Paloma Blanco 17 Fed 1 (offset) - OH - OH													Offset Site Error:
Survey Program: 561-LEAM MWD-ADJ													0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface	Offset Wellbore Centre		Distance		Minimum Separation	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	0.00	0.00	0.00	0.00	-12.43	3,034.33	-668.77	3,107.35		0.16	N/A	
100.00	100.00	66.28	66.28	0.08	0.08	-12.43	3,034.33	-668.70	3,107.14	3,106.98	0.50	6,223.931	
200.00	200.00	168.40	168.40	0.31	0.19	-12.42	3,034.33	-668.33	3,107.06	3,106.56	0.84	3,702.368	
300.00	300.00	270.52	270.52	0.53	0.31	-12.41	3,034.33	-667.63	3,106.91	3,106.07	1.18	2,634.760	
400.00	400.00	372.64	372.63	0.76	0.42	-12.39	3,034.33	-666.61	3,106.70	3,105.52	1.52	2,044.957	
500.00	500.00	474.74	474.73	0.98	0.54	-12.37	3,034.33	-665.26	3,106.41	3,104.89	1.87	1,658.731	
600.00	600.00	576.42	576.39	1.21	0.67	-12.34	3,034.33	-663.61	3,106.06	3,104.19	2.30	1,350.338	
700.00	700.00	675.78	675.74	1.43	0.87	-12.31	3,034.33	-661.93	3,105.70	3,103.40	2.73	1,138.589	
800.00	800.00	775.15	775.09	1.66	1.08	-12.28	3,034.33	-660.35	3,105.37	3,102.64	3.15	984.217	
900.00	900.00	874.52	874.45	1.88	1.28	-12.25	3,034.33	-658.86	3,105.05	3,101.89	3.58	866.687	
1,000.00	1,000.00	973.90	973.82	2.11	1.48	-12.23	3,034.33	-657.47	3,104.75	3,101.17	4.01	773.731	
1,100.00	1,100.00	1,073.58	1,073.49	2.33	1.69	-12.20	3,034.33	-656.15	3,104.47	3,100.46	4.44	698.365	
1,200.00	1,200.00	1,173.57	1,173.47	2.56	1.90	-12.18	3,034.33	-654.85	3,104.19	3,099.75	4.88	636.231	
1,300.00	1,300.00	1,273.56	1,273.46	2.78	2.11	-12.15	3,034.33	-653.54	3,103.92	3,099.04	5.32	583.012	
1,400.00	1,400.00	1,373.55	1,373.44	3.01	2.33	-12.13	3,034.33	-652.23	3,103.64	3,098.32	5.77	538.000	
1,500.00	1,500.00	1,473.54	1,473.42	3.23	2.55	-12.11	3,034.33	-650.92	3,103.37	3,097.60	6.21	499.434	
1,600.00	1,600.00	1,573.53	1,573.40	3.46	2.77	-12.08	3,034.33	-649.61	3,103.09	3,096.88	6.66	466.022	
1,700.00	1,700.00	1,673.53	1,673.39	3.68	2.99	-12.06	3,034.33	-648.30	3,102.82	3,096.16	7.10	436.794	
1,800.00	1,800.00	1,773.52	1,773.37	3.91	3.21	-12.04	3,034.33	-646.99	3,102.55	3,095.44	7.55	410.873	
1,900.00	1,900.00	1,873.51	1,873.35	4.13	3.44	-12.01	3,034.33	-645.68	3,102.27	3,094.72	8.00	387.853	
2,000.00	2,000.00	1,973.50	1,973.34	4.35	3.66	-11.99	3,034.33	-644.37	3,102.00	3,094.00	8.45	367.272	
2,100.00	2,100.00	2,073.49	2,073.32	4.58	3.89	-11.97	3,034.33	-643.07	3,101.73	3,093.29	8.89	348.762	
2,200.00	2,200.00	2,173.48	2,173.30	4.80	4.11	-11.94	3,034.33	-641.76	3,101.46	3,092.57	9.34	332.003	
2,300.00	2,300.00	2,273.63	2,273.44	5.03	4.33	-11.92	3,034.33	-640.44	3,101.19	3,091.85	9.79	316.722	
2,400.00	2,400.00	2,374.17	2,373.97	5.25	4.56	-11.89	3,034.33	-639.06	3,100.90	3,091.11	10.24	302.782	
2,500.00	2,500.00	2,474.71	2,474.50	5.48	4.79	-11.87	3,034.33	-637.59	3,100.60	3,090.36	10.69	290.014	
2,600.00	2,600.00	2,575.25	2,575.03	5.70	5.01	-11.84	3,034.33	-636.03	3,100.29	3,089.60	11.14	278.275	
2,700.00	2,700.00	2,675.78	2,675.55	5.93	5.24	-11.81	3,034.33	-634.39	3,099.95	3,088.81	11.59	267.443	
2,800.00	2,800.00	2,776.32	2,776.07	6.15	5.46	-11.78	3,034.33	-632.66	3,099.60	3,088.01	12.04	257.407	
2,900.00	2,900.00	2,876.85	2,876.58	6.38	5.69	-11.74	3,034.33	-630.84	3,099.23	3,087.19	12.49	248.093	
3,000.00	3,000.00	2,977.38	2,977.09	6.60	5.92	-11.71	3,034.33	-628.94	3,098.84	3,086.35	12.94	239.427	
3,100.00	3,100.00	3,077.91	3,077.60	6.83	6.15	-11.67	3,034.33	-626.94	3,098.44	3,085.50	13.39	231.343	
3,200.00	3,200.00	3,178.43	3,178.10	7.05	6.37	-11.64	3,034.33	-624.86	3,098.02	3,084.63	13.62	227.501	
3,250.00	3,250.00	3,228.69	3,228.35	7.16	6.49	-11.62	3,034.33	-623.79	3,097.81	3,084.19	13.87	223.373	
3,300.00	3,300.00	3,279.29	3,278.94	7.27	6.60	-11.60	3,034.33	-622.68	3,097.55	3,083.68	14.30	216.602	
3,400.00	3,399.98	3,381.42	3,381.04	7.47	6.84	-11.57	3,034.33	-620.20	3,096.71	3,082.41	14.73	210.166	
3,500.00	3,499.92	3,483.41	3,482.99	7.67	7.07	-11.54	3,034.33	-617.35	3,095.46	3,080.73	15.16	204.044	
3,600.00	3,599.78	3,584.38	3,583.91	7.87	7.30	-11.51	3,034.33	-614.23	3,093.83	3,078.66	15.60	198.198	
3,700.00	3,699.54	3,684.88	3,684.36	8.08	7.53	-11.48	3,034.33	-610.94	3,091.85	3,076.25	16.04	192.578	
3,800.00	3,799.16	3,785.61	3,785.03	8.29	7.76	-11.44	3,034.33	-607.46	3,089.54	3,073.49	16.50	187.111	
3,900.00	3,898.61	3,887.63	3,886.97	8.51	8.00	-11.41	3,034.33	-603.51	3,086.88	3,070.38	16.96	181.843	
4,000.00	3,997.86	3,989.20	3,988.44	8.74	8.24	-11.37	3,034.33	-599.04	3,083.88	3,066.92	17.43	176.701	
4,100.00	4,096.89	4,090.96	4,090.08	8.97	8.48	-11.34	3,034.33	-593.98	3,080.57	3,063.14	17.92	171.702	
4,200.00	4,195.65	4,192.33	4,191.28	9.22	8.72	-11.30	3,034.33	-588.23	3,076.98	3,059.06	18.17	169.240	
4,250.00	4,244.93	4,242.73	4,241.59	9.35	8.84	-11.28	3,034.33	-585.11	3,075.10	3,056.93	18.42	166.810	
4,300.00	4,294.17	4,293.00	4,291.75	9.48	8.96	-11.25	3,034.33	-581.83	3,073.19	3,054.77	18.94	162.097	
4,400.00	4,392.65	4,393.27	4,391.77	9.75	9.20	-11.21	3,034.33	-574.76	3,069.44	3,050.50	19.42	157.848	
4,500.00	4,491.13	4,488.55	4,486.80	10.03	9.41	-11.17	3,034.33	-567.88	3,065.85	3,046.42	19.92	153.765	
4,600.00	4,589.61	4,583.88	4,581.91	10.32	9.62	-11.13	3,034.33	-561.39	3,062.50	3,042.59	20.39	150.009	
4,700.00	4,688.09	4,678.27	4,676.11	10.61	9.80	-11.09	3,034.33	-555.46	3,059.41	3,039.01	20.87	146.423	
4,800.00	4,786.58	4,772.75	4,770.45	10.91	9.98	-11.05	3,034.33	-550.23	3,056.58	3,035.70	21.36	142.968	
4,900.00	4,885.06	4,867.57	4,865.16	11.21	10.16	-11.01	3,034.33	-545.70	3,054.00	3,032.64			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



LEAM Drilling Systems LLC
Anticollision Report



Company:	DEVON ENERGY	Local Co-ordinate Reference:	Site: White Dove 17 Fed Com
Project:	Lea County, NM (NAD-83)	TVD Reference:	3479.1' GL + 25' RKB @ 3504.10usft
Reference Site:	White Dove 17 Fed Com	MD Reference:	3479.1' GL + 25' RKB @ 3504.10usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore:	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design: White Dove 17 Fed Com - Paloma Blanco 17 Fed 1 (offset) - OH - OH														Offset Site Error: 0.00 usft	
Survey Program: 561 LEAM MWD-ADJ														Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres		Minimum Separation (usft)	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		N-S (usft)	E-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
5,000.00	4,983.54	4,962.71	4,960.22	11.52	10.34	84.02	3,034.33	-541.89	3,051.66	3,029.81	21.85	139.640			
5,100.00	5,082.02	5,058.16	5,055.62	11.84	10.53	84.39	3,034.33	-538.79	3,049.54	3,027.19	22.35	136.435			
5,200.00	5,180.50	5,153.91	5,151.34	12.16	10.71	84.75	3,034.33	-536.42	3,047.63	3,024.78	22.85	133.350			
5,300.00	5,278.98	5,251.00	5,248.42	12.48	10.89	85.09	3,034.33	-534.77	3,045.91	3,022.55	23.36	130.369			
5,400.00	5,377.46	5,347.74	5,345.15	12.81	11.08	85.43	3,034.33	-533.59	3,044.35	3,020.48	23.87	127.512			
5,500.00	5,475.94	5,445.61	5,443.01	13.14	11.26	85.77	3,034.33	-532.57	3,042.92	3,018.52	24.39	124.752			
5,600.00	5,574.42	5,543.54	5,540.94	13.47	11.45	86.10	3,034.33	-531.73	3,041.60	3,016.69	24.91	122.094			
5,700.00	5,672.90	5,641.54	5,638.94	13.81	11.63	86.43	3,034.33	-531.06	3,040.41	3,014.97	25.44	119.535			
5,800.00	5,771.38	5,739.65	5,737.04	14.15	11.82	86.76	3,034.33	-530.57	3,039.33	3,013.37	25.96	117.062			
5,900.00	5,869.86	5,838.05	5,835.45	14.49	12.02	87.09	3,034.33	-530.14	3,038.36	3,011.85	26.51	114.623			
6,000.00	5,968.34	5,936.45	5,933.85	14.83	12.22	87.42	3,034.33	-529.71	3,037.50	3,010.44	27.05	112.276			
6,100.00	6,066.83	6,034.86	6,032.25	15.18	12.42	87.75	3,034.33	-529.28	3,036.74	3,009.13	27.60	110.018			
6,200.00	6,165.31	6,133.26	6,130.66	15.53	12.63	88.08	3,034.33	-528.85	3,036.08	3,007.93	28.15	107.843			
6,300.00	6,263.79	6,231.67	6,229.06	15.88	12.83	88.41	3,034.33	-528.42	3,035.53	3,006.82	28.71	105.734			
6,400.00	6,362.27	6,330.07	6,327.46	16.23	13.04	88.74	3,034.33	-527.99	3,035.08	3,005.80	29.28	103.672			
6,500.00	6,460.75	6,428.47	6,425.87	16.59	13.26	89.07	3,034.33	-527.56	3,034.73	3,004.89	29.84	101.686			
6,600.00	6,559.23	6,526.88	6,524.27	16.94	13.47	89.41	3,034.33	-527.13	3,034.49	3,004.08	30.41	99.773			
6,700.00	6,657.71	6,625.28	6,622.67	17.30	13.69	89.74	3,034.33	-526.70	3,034.36	3,003.37	30.98	97.930			
6,779.92	6,736.41	6,703.93	6,701.31	17.59	13.86	90.00	3,034.33	-526.36	3,034.33	3,002.88	31.44	96.504			
6,800.00	6,756.19	6,723.69	6,721.07	17.66	13.90	90.07	3,034.33	-526.27	3,034.33	3,002.77	31.56	96.152			
6,900.00	6,854.67	6,822.07	6,819.45	18.02	14.12	90.40	3,034.33	-525.78	3,034.40	3,002.27	32.13	94.434			
7,000.00	6,953.15	6,920.42	6,917.80	18.38	14.33	90.73	3,034.33	-525.20	3,034.58	3,001.87	32.71	92.776			
7,100.00	7,051.63	7,018.73	7,016.12	18.74	14.55	91.07	3,034.33	-524.53	3,034.87	3,001.58	33.29	91.178			
7,200.00	7,150.11	7,117.02	7,114.40	19.11	14.76	91.40	3,034.33	-523.78	3,035.27	3,001.40	33.86	89.634			
7,300.00	7,248.59	7,215.24	7,212.62	19.47	14.98	91.74	3,034.33	-522.93	3,035.77	3,001.33	34.44	88.142			
7,400.00	7,347.08	7,313.37	7,310.74	19.84	15.20	92.08	3,034.33	-521.93	3,036.40	3,001.37	35.02	86.698			
7,500.00	7,445.56	7,411.43	7,408.79	20.21	15.41	92.42	3,034.33	-520.76	3,037.14	3,001.53	35.60	85.303			
7,600.00	7,544.04	7,509.43	7,506.78	20.57	15.63	92.77	3,034.33	-519.43	3,038.00	3,001.81	36.19	83.955			
7,700.00	7,642.52	7,607.36	7,604.71	20.94	15.85	93.12	3,034.33	-517.94	3,038.98	3,002.22	36.77	82.653			
7,800.00	7,741.00	7,705.30	7,702.63	21.31	16.07	93.47	3,034.33	-516.28	3,040.10	3,002.75	37.35	81.394			
7,900.00	7,839.48	7,803.46	7,800.78	21.68	16.28	93.82	3,034.33	-514.57	3,041.33	3,003.40	37.94	80.172			
8,000.00	7,937.96	7,901.63	7,898.93	22.05	16.50	94.17	3,034.33	-512.85	3,042.69	3,004.17	38.52	78.990			
8,100.00	8,036.44	7,999.79	7,997.07	22.42	16.72	94.52	3,034.33	-511.14	3,044.16	3,005.05	39.11	77.845			
8,200.00	8,134.92	8,097.95	8,095.22	22.80	16.94	94.87	3,034.33	-509.43	3,045.75	3,006.06	39.69	76.738			
8,300.00	8,233.40	8,196.11	8,193.37	23.17	17.16	95.22	3,034.33	-507.71	3,047.46	3,007.19	40.28	75.666			
8,400.00	8,331.88	8,294.28	8,291.52	23.54	17.38	95.58	3,034.33	-506.00	3,049.29	3,008.43	40.86	74.626			
8,500.00	8,430.36	8,392.44	8,389.66	23.92	17.60	95.93	3,034.33	-504.29	3,051.24	3,009.79	41.45	73.619			
8,577.00	8,506.19	8,468.02	8,465.24	24.21	17.77	96.19	3,034.33	-502.97	3,052.82	3,010.92	41.90	72.865			
8,600.00	8,528.84	8,490.59	8,487.81	24.29	17.82	83.49	3,034.33	-502.58	3,052.84	3,010.82	42.02	72.653			
8,650.00	8,577.88	8,539.48	8,536.68	24.46	17.93	60.99	3,034.33	-501.72	3,049.77	3,007.67	42.10	72.445			
8,700.00	8,626.37	8,587.80	8,585.00	24.63	18.04	46.88	3,034.33	-500.88	3,042.43	3,000.50	41.93	72.562			
8,750.00	8,673.93	8,635.21	8,632.40	24.80	18.15	38.41	3,034.33	-500.05	3,030.88	2,989.36	41.52	72.998			
8,800.00	8,720.20	8,681.27	8,678.45	24.97	18.25	33.19	3,034.33	-499.25	3,015.21	2,974.33	40.88	73.753			
8,850.00	8,764.84	8,725.61	8,722.78	25.14	18.35	29.89	3,034.33	-498.46	2,995.56	2,955.52	40.03	74.824			
8,900.00	8,807.49	8,767.97	8,765.14	25.31	18.44	27.82	3,034.33	-497.69	2,972.06	2,933.06	39.00	76.208			
8,950.00	8,847.85	8,808.03	8,805.20	25.48	18.53	26.63	3,034.33	-496.94	2,944.91	2,907.11	37.81	77.892			
9,000.00	8,885.59	8,845.50	8,842.66	25.65	18.62	26.12	3,034.33	-496.24	2,914.32	2,877.82	36.50	79.838			
9,050.00	8,920.43	8,880.09	8,877.24	25.83	18.70	26.21	3,034.33	-495.57	2,880.51	2,845.37	35.14	81.970			
9,100.00	8,952.11	8,911.53	8,908.67	26.01	18.77	26.90	3,034.33	-494.96	2,843.75	2,809.95	33.80	84.136			
9,150.00	8,980.39	8,939.58	8,936.72	26.20	18.83	28.25	3,034.33	-494.41	2,804.31	2,771.72	32.59	86.061			
9,200.00	9,005.05	8,964.04	8,961.18	26.40	18.89	30.43	3,034.33	-493.92	2,762.49	2,730.84	31.65	87.278			
9,250.00	9,025.90	8,984.73	8,981.85	26.62	18.93	33.73	3,034.33	-493.50	2,718.61	2,687.39	31.22	87.073			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



LEAM Drilling Systems LLC
Anticollision Report



Company:	DEVON ENERGY	Local Co-ordinate Reference:	Site: White Dove 17 Fed Com
Project:	Lea County, NM (NAD-83)	TVD Reference:	3479.1' GL + 25' RKB @ 3504.10usft
Reference Site:	White Dove 17 Fed Com	MD Reference:	3479.1' GL + 25' RKB @ 3504.10usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore:	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1	Offset-TVD Reference:	Offset Datum

Offset Design - White Dove 17 Fed Com - Paloma Blanco 17 Fed 1 (offset) - OH - OH													Offset Site Error: 0.00 usft
Survey Program: 561-LEAM MWD-ADJ													Offset Well Error: 0.00 usft
Measured	Reference	Offset	Vertical	Vertical	Semi Major Axis	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation	Warning
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	Reference (usft)	Offset (usft)	+N-S (usft)	+E-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor	
9,300.00	9,042.78	9,001.47	8,998.59	26.86	18.97	38.71	3,034.33	-493.16	2,673.00	2,641.38	31.62	84.534	
9,350.00	9,055.58	9,014.15	9,011.27	27.11	19.00	46.34	3,034.33	-492.90	2,625.99	2,592.71	33.28	78.905	
9,400.00	9,064.18	9,022.67	9,019.79	27.39	19.02	58.35	3,034.33	-492.73	2,577.96	2,541.41	36.55	70.536	
9,450.00	9,068.52	9,026.96	9,024.08	27.68	19.03	76.85	3,034.33	-492.64	2,529.24	2,488.61	40.64	62.240	
9,482.42	9,069.04	9,027.47	9,024.59	27.88	19.03	92.30	3,034.33	-492.63	2,497.47	2,455.36	42.11	59.309	
9,500.00	9,068.84	9,027.26	9,024.38	27.99	19.03	92.27	3,034.33	-492.63	2,480.22	2,437.96	42.26	58.690	
9,600.00	9,067.67	9,026.07	9,023.19	28.70	19.03	92.13	3,034.33	-492.66	2,382.21	2,339.04	43.17	55.178	
9,700.00	9,066.49	9,024.88	9,022.00	29.52	19.02	91.99	3,034.33	-492.68	2,284.38	2,240.19	44.18	51.701	
9,800.00	9,065.32	9,023.69	9,020.81	30.44	19.02	91.85	3,034.33	-492.71	2,186.73	2,141.45	45.28	48.290	
9,900.00	9,064.15	9,022.50	9,019.62	31.44	19.02	91.71	3,034.33	-492.73	2,089.31	2,042.86	46.46	44.972	
10,000.00	9,062.98	9,021.31	9,018.43	32.52	19.01	91.57	3,034.33	-492.75	1,992.15	1,944.45	47.70	41.764	
10,100.00	9,061.81	9,020.12	9,017.24	33.67	19.01	91.42	3,034.33	-492.78	1,895.28	1,846.28	49.00	38.678	
10,200.00	9,060.64	9,018.93	9,016.05	34.88	19.01	91.28	3,034.33	-492.80	1,798.75	1,748.40	50.35	35.721	
10,300.00	9,059.47	9,017.74	9,014.86	36.15	19.01	91.14	3,034.33	-492.83	1,702.62	1,650.87	51.75	32.899	
10,400.00	9,058.30	9,016.55	9,013.67	37.46	19.00	91.00	3,034.33	-492.85	1,606.97	1,553.77	53.19	30.211	
10,500.00	9,057.13	9,015.36	9,012.48	38.82	19.00	90.86	3,034.33	-492.88	1,511.87	1,457.21	54.66	27.657	
10,600.00	9,055.96	9,014.17	9,011.29	40.22	19.00	90.72	3,034.33	-492.90	1,417.45	1,361.28	56.17	25.236	
10,700.00	9,054.79	9,012.98	9,010.10	41.65	19.00	90.58	3,034.33	-492.93	1,323.85	1,266.15	57.70	22.944	
10,800.00	9,053.62	9,011.79	9,008.91	43.11	18.99	90.43	3,034.33	-492.95	1,231.25	1,171.99	59.25	20.779	
10,900.00	9,052.45	9,010.60	9,007.72	44.60	18.99	90.29	3,034.33	-492.97	1,139.90	1,079.07	60.83	18.739	
11,000.00	9,051.28	9,009.41	9,006.53	46.11	18.99	90.15	3,034.33	-493.00	1,050.13	987.70	62.43	16.822	
11,100.00	9,050.11	9,008.22	9,005.35	47.65	18.98	90.01	3,034.33	-493.02	962.37	898.34	64.04	15.028	
11,200.00	9,048.94	9,007.03	9,004.16	49.21	18.98	89.87	3,034.33	-493.05	877.24	811.58	65.66	13.359	
11,300.00	9,047.77	9,005.84	9,002.97	50.78	18.98	89.73	3,034.33	-493.07	795.58	728.27	67.31	11.820	
11,400.00	9,046.60	9,004.65	9,001.78	52.38	18.98	89.59	3,034.33	-493.10	718.56	649.60	68.96	10.420	
11,500.00	9,045.42	9,003.46	9,000.59	53.98	18.97	89.44	3,034.33	-493.12	647.86	577.23	70.62	9.174	
11,600.00	9,044.25	9,002.27	8,999.40	55.61	18.97	89.30	3,034.33	-493.14	585.75	513.45	72.30	8.102	
11,700.00	9,043.08	9,001.08	8,998.21	57.24	18.97	89.16	3,034.33	-493.17	535.23	461.26	73.98	7.235	
11,800.00	9,041.91	8,999.89	8,997.02	58.89	18.97	89.02	3,034.33	-493.19	499.85	424.18	75.67	6.606	
11,900.00	9,040.74	8,998.71	8,995.83	60.54	18.96	88.88	3,034.33	-493.22	482.93	405.57	77.37	6.242	
11,933.15	9,040.35	8,998.31	8,995.44	61.09	18.96	88.83	3,034.33	-493.23	481.79	403.86	77.93	6.182 CC, ES	
12,000.00	9,039.57	8,997.52	8,994.64	62.21	18.96	88.74	3,034.33	-493.24	486.41	407.34	79.07	6.152 SF	
12,100.00	9,038.40	8,996.33	8,993.45	63.88	18.96	88.60	3,034.33	-493.27	509.86	429.08	80.78	6.312	
12,200.00	9,037.23	8,995.14	8,992.26	65.57	18.96	88.45	3,034.33	-493.29	550.75	468.25	82.50	6.676	
12,300.00	9,036.06	8,993.95	8,991.07	67.26	18.95	88.31	3,034.33	-493.31	605.55	521.33	84.22	7.190	
12,400.00	9,034.89	8,992.76	8,989.88	68.96	18.95	88.17	3,034.33	-493.34	670.85	584.91	85.94	7.806	
12,500.00	9,033.72	8,991.57	8,988.69	70.66	18.95	88.03	3,034.33	-493.36	743.91	656.24	87.67	8.485	
12,600.00	9,032.55	8,990.38	8,987.51	72.37	18.94	87.89	3,034.33	-493.39	822.65	733.25	89.40	9.201	
12,700.00	9,031.38	8,989.19	8,986.32	74.09	18.94	87.75	3,034.33	-493.41	905.59	814.45	91.14	9.936	
12,800.00	9,030.21	8,988.00	8,985.13	75.81	18.94	87.61	3,034.33	-493.43	991.69	898.81	92.88	10.677	
12,900.00	9,029.04	8,986.81	8,983.94	77.54	18.94	87.46	3,034.33	-493.46	1,080.18	985.56	94.62	11.416	
13,000.00	9,027.87	8,985.62	8,982.75	79.27	18.93	87.32	3,034.33	-493.48	1,170.53	1,074.16	96.37	12.147	
13,100.00	9,026.70	8,984.43	8,981.56	81.01	18.93	87.18	3,034.33	-493.51	1,262.33	1,164.22	98.11	12.866	
13,200.00	9,025.53	8,983.24	8,980.37	82.75	18.93	87.04	3,034.33	-493.53	1,355.29	1,255.43	99.86	13.572	
13,300.00	9,024.35	8,982.05	8,979.18	84.49	18.93	86.90	3,034.33	-493.56	1,449.19	1,347.58	101.61	14.262	
13,400.00	9,023.18	8,980.86	8,977.99	86.24	18.92	86.76	3,034.33	-493.58	1,543.85	1,440.49	103.36	14.936	
13,500.00	9,022.01	8,979.68	8,976.80	87.99	18.92	86.62	3,034.33	-493.60	1,639.15	1,534.03	105.12	15.594	
13,586.58	9,021.00	8,978.65	8,975.78	89.51	18.92	86.50	3,034.33	-493.62	1,722.08	1,615.45	106.63	16.149	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation