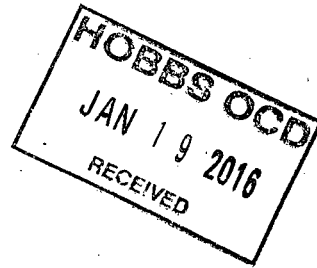


DEVON ENERGY

Lea County, NM (NAD-83)
White Dove 17 Fed Com
2H

OH
Plan #1



Anticollision Report

20 May, 2015

JAN 20 2016

LEAM Drilling Systems LLC

Anticollision Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 2H
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:	2H	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: 5/20/2015		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	15,365.93	Plan #1 (OH)	LEAM MWD-ADJ	MWD - Standard

Summary						
	Reference	Offset	Distance			
Site Name	Measured	Measured	Between	Between	Separation	Warning
Offset Well - Wellbore - Design	Depth	Depth	Centres	Ellipses	Factor	
	(usft)	(usft)	(usft)	(usft)		
White Dove 17 Fed Com						
1H - OH - Plan #1	4,500.00	4,500.00	50.04	30.09	2.509	CC, ES, SF

Offset Design White Dove 17 Fed Com - 1H - OH - Plan #1											Offset Site Error: 0.00 usft		
Survey Program: 0-LEAM MWD-ADJ											Offset Well Error: 0.00 usft		
Reference		Offset		Semi Major Axis		Distance						Warning	
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore Centre	Between	Between	Minimum	Separation		
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
0.00	0.00	0.00	0.00	0.00	0.00	-90.37	-0.32	-50.04	50.04				
100.00	100.00	100.00	100.00	0.08	0.08	-90.37	-0.32	-50.04	50.04	49.87	0.17	296.848	
200.00	200.00	200.00	200.00	0.31	0.31	-90.37	-0.32	-50.04	50.04	49.42	0.62	80.959	
300.00	300.00	300.00	300.00	0.53	0.53	-90.37	-0.32	-50.04	50.04	48.97	1.07	46.871	
400.00	400.00	400.00	400.00	0.76	0.76	-90.37	-0.32	-50.04	50.04	48.52	1.52	32.983	
500.00	500.00	500.00	500.00	0.98	0.98	-90.37	-0.32	-50.04	50.04	48.07	1.97	25.444	
600.00	600.00	600.00	600.00	1.21	1.21	-90.37	-0.32	-50.04	50.04	47.62	2.42	20.710	
700.00	700.00	700.00	700.00	1.43	1.43	-90.37	-0.32	-50.04	50.04	47.18	2.87	17.462	
800.00	800.00	800.00	800.00	1.66	1.66	-90.37	-0.32	-50.04	50.04	46.73	3.32	15.094	
900.00	900.00	900.00	900.00	1.88	1.88	-90.37	-0.32	-50.04	50.04	46.28	3.76	13.292	
1,000.00	1,000.00	1,000.00	1,000.00	2.11	2.11	-90.37	-0.32	-50.04	50.04	45.83	4.21	11.874	
1,100.00	1,100.00	1,100.00	1,100.00	2.33	2.33	-90.37	-0.32	-50.04	50.04	45.38	4.66	10.729	
1,200.00	1,200.00	1,200.00	1,200.00	2.56	2.56	-90.37	-0.32	-50.04	50.04	44.93	5.11	9.786	
1,300.00	1,300.00	1,300.00	1,300.00	2.78	2.78	-90.37	-0.32	-50.04	50.04	44.48	5.56	8.995	
1,400.00	1,400.00	1,400.00	1,400.00	3.01	3.01	-90.37	-0.32	-50.04	50.04	44.03	6.01	8.323	
1,500.00	1,500.00	1,500.00	1,500.00	3.23	3.23	-90.37	-0.32	-50.04	50.04	43.58	6.46	7.744	
1,600.00	1,600.00	1,600.00	1,600.00	3.46	3.46	-90.37	-0.32	-50.04	50.04	43.13	6.91	7.240	
1,700.00	1,700.00	1,700.00	1,700.00	3.68	3.68	-90.37	-0.32	-50.04	50.04	42.68	7.36	6.798	
1,800.00	1,800.00	1,800.00	1,800.00	3.91	3.91	-90.37	-0.32	-50.04	50.04	42.23	7.81	6.407	
1,900.00	1,900.00	1,900.00	1,900.00	4.13	4.13	-90.37	-0.32	-50.04	50.04	41.78	8.26	6.058	
2,000.00	2,000.00	2,000.00	2,000.00	4.35	4.35	-90.37	-0.32	-50.04	50.04	41.33	8.71	5.745	
2,100.00	2,100.00	2,100.00	2,100.00	4.58	4.58	-90.37	-0.32	-50.04	50.04	40.88	9.16	5.463	
2,200.00	2,200.00	2,200.00	2,200.00	4.80	4.80	-90.37	-0.32	-50.04	50.04	40.43	9.61	5.208	
2,300.00	2,300.00	2,300.00	2,300.00	5.03	5.03	-90.37	-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	-90.37	-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	-90.37	-0.32	-50.04	50.04	39.08	10.96	4.567	

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:	Well 2H
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:	2H	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 - 1H - OH - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-LEAM MWD-ADJ													Offset Well Error:	0.00 usft
Reference	Vertical	Measured	Vertical	Semi Major Axis	Offset	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation	Warning	
Depth	Depth	Depth	Depth	Reference	Offset	Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
2,600.00	2,600.00	2,600.00	2,600.00	5.70	5.70	-90.37	-0.32	-50.04	50.04	38.83	11.41	4.387		
2,700.00	2,700.00	2,700.00	2,700.00	5.93	5.93	-90.37	-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	-90.37	-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	-90.37	-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	-90.37	-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	-90.37	-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	-90.37	-0.32	-50.04	50.04	35.94	14.10	3.548		
3,300.00	3,300.00	3,300.00	3,300.00	7.28	7.28	-90.37	-0.32	-50.04	50.04	35.49	14.55	3.438		
3,400.00	3,400.00	3,400.00	3,400.00	7.50	7.50	-90.37	-0.32	-50.04	50.04	35.04	15.00	3.335		
3,500.00	3,500.00	3,500.00	3,500.00	7.73	7.73	-90.37	-0.32	-50.04	50.04	34.59	15.45	3.238		
3,600.00	3,600.00	3,600.00	3,600.00	7.95	7.95	-90.37	-0.32	-50.04	50.04	34.14	15.90	3.147		
3,700.00	3,700.00	3,700.00	3,700.00	8.18	8.18	-90.37	-0.32	-50.04	50.04	33.69	16.35	3.060		
3,800.00	3,800.00	3,800.00	3,800.00	8.40	8.40	-90.37	-0.32	-50.04	50.04	33.24	16.80	2.978		
3,900.00	3,900.00	3,900.00	3,900.00	8.63	8.63	-90.37	-0.32	-50.04	50.04	32.79	17.25	2.901		
4,000.00	4,000.00	4,000.00	4,000.00	8.85	8.85	-90.37	-0.32	-50.04	50.04	32.34	17.70	2.827		
4,100.00	4,100.00	4,100.00	4,100.00	9.07	9.07	-90.37	-0.32	-50.04	50.04	31.89	18.15	2.757		
4,200.00	4,200.00	4,200.00	4,200.00	9.30	9.30	-90.37	-0.32	-50.04	50.04	31.44	18.60	2.690		
4,300.00	4,300.00	4,300.00	4,300.00	9.52	9.52	-90.37	-0.32	-50.04	50.04	30.99	19.05	2.627		
4,400.00	4,400.00	4,400.00	4,400.00	9.75	9.75	-90.37	-0.32	-50.04	50.04	30.54	19.50	2.566		
4,500.00	4,500.00	4,500.00	4,500.00	9.97	9.97	-90.37	-0.32	-50.04	50.04	30.09	19.95	2.509 CC, ES, SF		
4,600.00	4,600.00	4,598.76	4,598.75	10.20	10.18	-90.85	-0.76	-51.24	51.26	30.88	20.38	2.516		
4,700.00	4,700.00	4,697.39	4,697.30	10.42	10.36	-92.16	-2.06	-54.83	54.94	34.15	20.79	2.643		
4,800.00	4,800.00	4,795.75	4,795.46	10.65	10.55	-93.98	-4.23	-60.79	61.11	39.91	21.20	2.883		
4,900.00	4,900.00	4,893.72	4,893.03	10.87	10.74	-95.99	-7.25	-69.09	69.82	48.20	21.62	3.230		
5,000.00	5,000.00	4,993.07	4,991.82	11.10	10.94	-97.80	-10.80	-78.84	80.00	57.96	22.04	3.630		
5,100.00	5,100.00	5,092.52	5,090.73	11.32	11.15	-99.20	-14.36	-88.61	90.25	67.78	22.47	4.017		
5,200.00	5,200.00	5,191.97	5,189.64	11.55	11.36	-100.32	-17.91	-98.38	100.53	77.64	22.90	4.391		
5,300.00	5,300.00	5,291.42	5,288.55	11.77	11.57	-101.23	-21.47	-108.15	110.85	87.52	23.33	4.751		
5,400.00	5,400.00	5,390.87	5,387.45	12.00	11.79	-101.98	-25.03	-117.92	121.20	97.43	23.77	5.099		
5,500.00	5,500.00	5,490.33	5,486.36	12.22	12.00	-102.62	-28.58	-127.69	131.56	107.35	24.21	5.434		
5,600.00	5,599.99	5,589.90	5,585.39	12.43	12.23	6.89	-32.14	-137.47	140.64	116.13	24.51	5.738		
5,700.00	5,699.91	5,689.69	5,684.63	12.62	12.45	6.57	-35.71	-147.27	147.13	122.25	24.88	5.914		
5,800.00	5,799.69	5,789.61	5,784.00	12.81	12.68	6.39	-39.28	-157.08	151.03	125.80	25.23	5.986		
5,900.00	5,899.27	5,889.60	5,883.44	13.00	12.91	6.34	-42.86	-166.91	152.33	126.76	25.57	5.956		
6,000.00	5,998.72	5,989.60	5,982.90	13.20	13.15	6.34	-46.43	-176.73	152.33	126.36	25.97	5.866		
6,100.00	6,098.17	6,089.60	6,082.35	13.40	13.39	6.34	-50.01	-186.55	152.33	125.97	26.37	5.777		
6,200.00	6,197.63	6,189.60	6,181.80	13.61	13.62	6.34	-53.58	-196.37	152.33	125.56	26.77	5.691		
6,300.00	6,297.08	6,289.60	6,281.25	13.82	13.87	6.34	-57.16	-206.20	152.33	125.16	27.17	5.606		
6,400.00	6,396.53	6,389.60	6,380.70	14.03	14.11	6.34	-60.73	-216.02	152.33	124.76	27.58	5.524		
6,500.00	6,495.98	6,489.60	6,480.16	14.25	14.36	6.34	-64.31	-225.84	152.33	124.35	27.98	5.444		
6,600.00	6,595.43	6,589.60	6,579.61	14.47	14.60	6.34	-67.88	-235.66	152.33	123.94	28.39	5.365		
6,700.00	6,694.89	6,689.60	6,679.06	14.69	14.85	6.34	-71.46	-245.49	152.33	123.53	28.80	5.288		
6,800.00	6,794.34	6,789.60	6,778.51	14.91	15.10	6.34	-75.03	-255.31	152.33	123.11	29.22	5.214		
6,900.00	6,893.79	6,889.60	6,877.97	15.14	15.36	6.34	-78.61	-265.13	152.33	122.70	29.63	5.141		
7,000.00	6,993.24	6,989.60	6,977.42	15.37	15.61	6.34	-82.18	-274.95	152.33	122.28	30.05	5.069		
7,100.00	7,092.70	7,089.60	7,076.87	15.60	15.87	6.34	-85.76	-284.78	152.33	121.86	30.47	4.999		
7,200.00	7,192.15	7,189.60	7,176.32	15.83	16.12	6.34	-89.33	-294.60	152.33	121.44	30.89	4.931		
7,300.00	7,291.60	7,289.60	7,275.77	16.07	16.38	6.34	-92.91	-304.42	152.33	121.02	31.31	4.865		
7,400.00	7,391.05	7,389.60	7,375.23	16.30	16.64	6.34	-96.48	-314.24	152.33	120.60	31.74	4.800		
7,500.00	7,490.50	7,489.60	7,474.68	16.54	16.90	6.34	-100.06	-324.06	152.33	120.17	32.16	4.737		
7,600.00	7,589.96	7,589.60	7,574.13	16.78	17.16	6.34	-103.63	-333.89	152.33	119.74	32.59	4.675		
7,700.00	7,689.41	7,689.60	7,673.58	17.03	17.43	6.34	-107.21	-343.71	152.33	119.32	33.02	4.614		

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:	Well: 2H
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:	2H	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

White Dove 17 Fed Com - 1H - OH - Plan #1													Offset Site Error:
Survey Program: 0-LEAM MWD-ADJ													0.00 usft
Reference													Offset Well Error:
Offset													0.00 usft
Measured	Vertical	Measured	Vertical	Semi Major Axis		Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning
Depth	Depth	Depth	Depth	Reference	Offset	Toolface	N/S	E/W	Between	Between	Separation	Factor	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	Centres	Ellipses	(usft)		
7,800.00	7,788.86	7,789.60	7,773.04	17.27	17.69	6.34	-110.78	-353.53	152.33	118.89	33.45	4.555	
7,900.00	7,888.31	7,889.60	7,872.49	17.52	17.96	6.34	-114.36	-363.35	152.33	118.46	33.88	4.497	
8,000.00	7,987.77	7,992.62	7,975.02	17.76	18.21	6.37	-117.78	-372.76	151.60	117.29	34.31	4.419	
8,100.00	8,087.22	8,096.62	8,078.76	18.01	18.44	6.52	-120.31	-379.70	148.26	113.52	34.73	4.269	
8,200.00	8,186.67	8,200.36	8,182.39	18.26	18.65	6.81	-121.86	-383.97	142.22	107.06	35.15	4.045	
8,300.00	8,286.12	8,303.68	8,285.69	18.52	18.85	7.27	-122.45	-385.60	133.50	97.92	35.58	3.752	
8,400.00	8,385.57	8,403.56	8,385.57	18.77	19.04	7.89	-122.46	-385.62	123.15	87.16	36.00	3.421	
8,500.00	8,485.03	8,503.01	8,485.03	19.02	19.25	8.62	-122.46	-385.62	112.81	76.38	36.43	3.096	
8,600.00	8,584.48	8,602.55	8,584.23	19.28	19.45	13.15	-116.01	-386.50	102.38	65.47	36.91	2.774	
8,700.00	8,683.93	8,696.58	8,675.62	19.53	19.62	27.54	-94.52	-389.45	95.97	58.39	37.58	2.553	
8,703.80	8,687.71	8,700.00	8,678.87	19.54	19.63	28.25	-93.46	-389.60	95.96	58.34	37.62	2.551	
8,800.00	8,783.38	8,780.97	8,753.65	19.79	19.77	47.12	-62.86	-393.79	105.62	67.09	38.53	2.742	
8,900.00	8,882.84	8,850.00	8,813.43	20.05	19.88	62.56	-28.75	-398.47	136.68	99.35	39.34	3.526	
9,000.00	8,982.29	8,916.15	8,866.44	20.31	19.99	73.82	10.40	-403.84	190.40	150.46	39.94	4.767	
9,100.00	9,081.74	8,968.32	8,904.82	20.57	20.09	80.21	45.38	-408.64	254.45	214.05	40.40	6.299	
9,200.00	9,181.19	9,012.11	8,934.44	20.83	20.18	84.23	77.31	-413.02	326.59	285.85	40.74	8.016	
9,300.00	9,280.64	9,050.00	8,958.03	21.10	20.26	86.95	106.68	-417.05	404.37	363.30	41.07	9.846	
9,400.00	9,380.10	9,080.21	8,975.39	21.36	20.34	88.73	131.17	-420.41	486.25	444.87	41.38	11.752	
9,500.00	9,479.55	9,100.00	8,986.05	21.62	20.39	89.74	147.69	-422.67	571.29	529.63	41.66	13.712	
9,568.64	9,547.81	9,122.93	8,997.67	21.81	20.46	90.77	167.26	-425.36	630.94	589.07	41.87	15.069	
9,600.00	9,579.01	9,129.76	9,000.99	21.88	20.48	91.91	173.19	-426.17	658.55	616.58	41.97	15.692	
9,700.00	9,678.66	9,150.00	9,010.37	22.11	20.56	95.48	190.95	-428.61	747.71	705.46	42.25	17.698	
9,800.00	9,778.50	9,167.54	9,017.98	22.32	20.62	98.96	206.61	-430.76	838.24	795.73	42.51	19.718	
9,900.00	9,878.45	9,183.34	9,024.42	22.52	20.68	102.42	220.90	-432.72	929.81	887.05	42.76	21.745	
9,968.64	9,947.08	9,200.00	9,030.78	22.64	20.75	-5.26	236.15	-434.81	993.21	950.25	42.96	23.117	
10,000.00	9,978.44	9,200.00	9,030.78	22.70	20.75	-5.26	236.15	-434.81	1,022.22	979.19	43.02	23.759	
10,100.00	10,078.44	9,200.00	9,030.78	22.91	20.75	-5.26	236.15	-434.81	1,115.55	1,072.32	43.23	25.804	
10,168.64	10,147.08	9,218.02	9,037.15	23.05	20.84	-5.37	252.85	-437.10	1,179.83	1,136.43	43.40	27.185	
10,200.00	10,178.43	9,221.69	9,038.39	23.11	20.85	1.93	256.28	-437.57	1,209.06	1,165.70	43.37	27.879	
10,250.00	10,228.17	9,228.33	9,040.56	23.21	20.89	1.58	262.50	-438.42	1,254.46	1,211.24	43.22	29.027	
10,300.00	10,277.29	9,250.00	9,047.14	23.31	21.00	1.30	282.95	-441.23	1,298.41	1,255.56	42.85	30.304	
10,350.00	10,325.43	9,250.00	9,047.14	23.40	21.00	1.14	282.95	-441.23	1,340.00	1,297.77	42.23	31.730	
10,400.00	10,372.21	9,250.00	9,047.14	23.48	21.00	1.02	282.95	-441.23	1,379.69	1,338.29	41.40	33.327	
10,450.00	10,417.27	9,250.00	9,047.14	23.56	21.00	0.92	282.95	-441.23	1,417.34	1,376.97	40.36	35.114	
10,500.00	10,460.28	9,272.93	9,053.26	23.64	21.12	0.83	304.84	-444.23	1,452.20	1,413.02	39.17	37.073	
10,550.00	10,500.90	9,300.00	9,059.33	23.72	21.28	0.75	330.97	-447.82	1,485.04	1,447.21	37.83	39.258	
10,600.00	10,538.83	9,300.00	9,059.33	23.80	21.28	0.71	330.97	-447.82	1,514.59	1,478.27	36.32	41.697	
10,650.00	10,573.78	9,300.00	9,059.33	23.88	21.28	0.67	330.97	-447.82	1,541.68	1,506.96	34.72	44.400	
10,700.00	10,605.48	9,300.00	9,059.33	23.97	21.28	0.64	330.97	-447.82	1,566.22	1,533.15	33.07	47.366	
10,750.00	10,633.70	9,329.97	9,064.59	24.07	21.47	0.60	360.20	-451.83	1,587.08	1,555.62	31.45	50.460	
10,800.00	10,658.21	9,350.00	9,067.24	24.19	21.61	0.57	379.87	-454.52	1,605.36	1,575.48	29.88	53.728	
10,850.00	10,678.83	9,350.00	9,067.24	24.34	21.61	0.56	379.87	-454.52	1,620.43	1,592.04	28.39	57.081	
10,900.00	10,695.40	9,350.00	9,067.24	24.53	21.61	0.55	379.87	-454.52	1,632.74	1,605.66	27.08	60.285	
10,950.00	10,707.80	9,380.16	9,069.92	24.75	21.82	0.53	409.63	-458.60	1,641.18	1,615.07	26.11	62.860	
11,000.00	10,715.93	9,400.00	9,070.82	25.01	21.97	0.52	429.26	-461.30	1,646.82	1,621.37	25.45	64.717	
11,050.00	10,719.74	9,400.00	9,070.82	25.30	21.97	0.52	429.26	-461.30	1,649.15	1,624.03	25.12	65.640	
11,075.32	10,720.00	9,412.41	9,071.03	25.46	22.06	0.52	441.55	-462.98	1,649.07	1,623.92	25.15	65.572	
11,100.00	10,719.71	9,422.78	9,071.00	25.62	22.14	0.52	451.83	-464.39	1,648.78	1,623.56	25.22	65.376	
11,133.73	10,719.32	9,440.96	9,070.79	25.87	22.29	0.52	469.84	-466.86	1,648.71	1,623.37	25.34	65.068	
11,200.00	10,718.55	9,507.23	9,070.02	26.37	22.86	0.51	535.49	-475.87	1,648.71	1,623.05	25.65	64.265	
11,300.00	10,717.38	9,607.23	9,068.84	27.24	23.82	0.50	634.55	-489.46	1,648.71	1,622.51	26.20	62.924	
11,400.00	10,716.22	9,707.23	9,067.67	28.20	24.89	0.48	733.62	-503.05	1,648.71	1,621.90	26.82	61.477	

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:	Well 2H
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:	2H	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

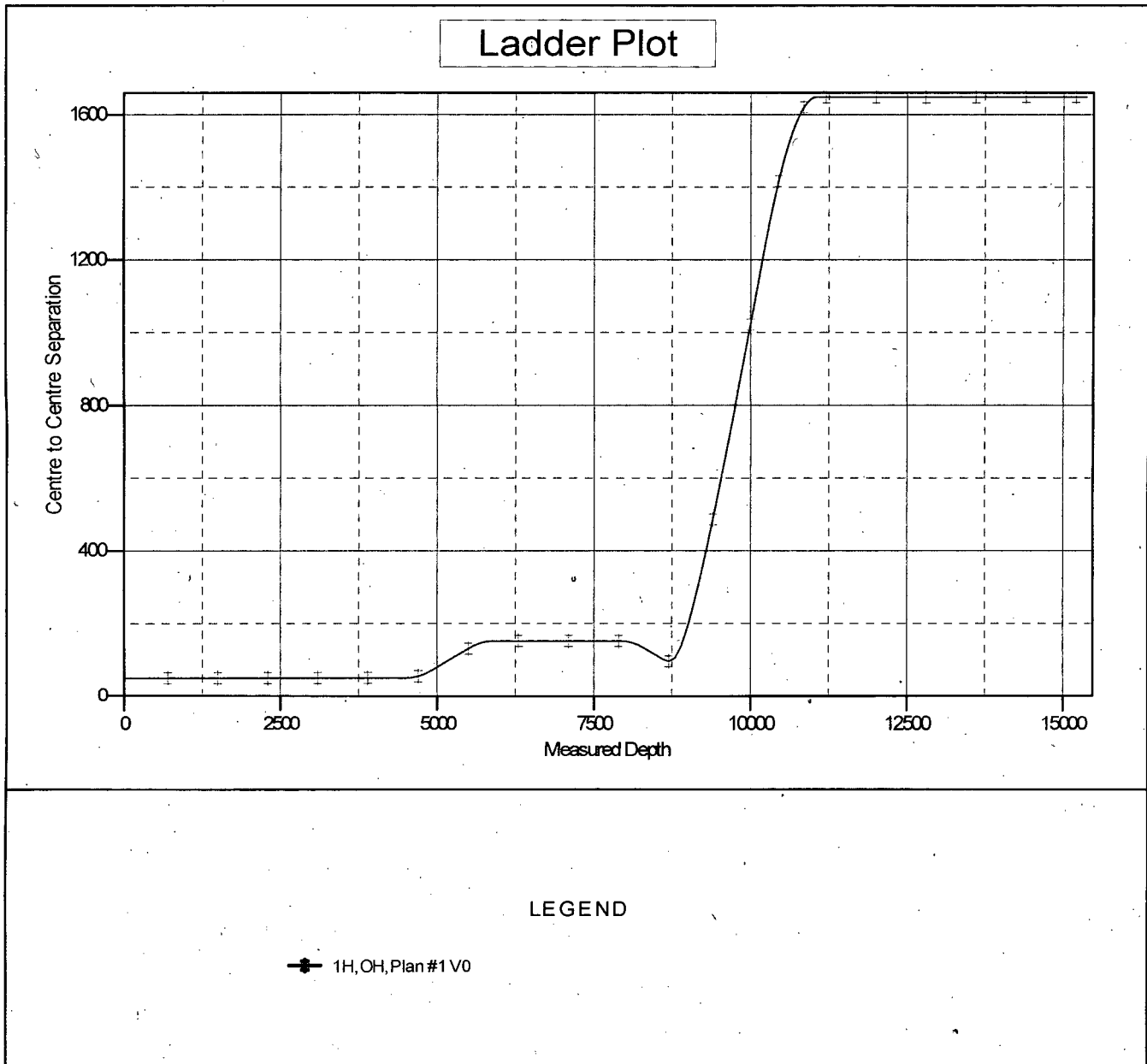
Offset Design: White Dove 17 Fed Com - 1H - OH - Plan #1														Offset Site Error:	0.00 usft
Survey Program: O-LEAM MWD-AD														Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis		Distance		Minimum		Separation		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured 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			
11,500.00	10,715.05	9,807.23	9,066.50	29.26	26.05	0.47	832.68	-516.64	1,648.72	1,621.22	27.50	59.952			
11,600.00	10,713.89	9,907.23	9,065.33	30.40	27.29	0.46	931.75	-530.22	1,648.72	1,620.48	28.24	58.375			
11,700.00	10,712.72	10,007.23	9,064.16	31.61	28.61	0.45	1,030.81	-543.81	1,648.72	1,619.68	29.04	56.771			
11,800.00	10,711.56	10,107.23	9,062.99	32.88	29.98	0.44	1,129.88	-557.40	1,648.73	1,618.84	29.89	55.159			
11,900.00	10,710.39	10,207.22	9,061.82	34.21	31.41	0.42	1,228.94	-570.99	1,648.73	1,617.94	30.79	53.556			
12,000.00	10,709.22	10,307.22	9,060.65	35.60	32.89	0.41	1,328.01	-584.58	1,648.73	1,617.01	31.72	51.973			
12,100.00	10,708.06	10,407.22	9,059.48	37.02	34.40	0.40	1,427.07	-598.17	1,648.74	1,616.04	32.70	50.421			
12,200.00	10,706.89	10,507.22	9,058.30	38.49	35.96	0.39	1,526.14	-611.76	1,648.74	1,615.03	33.71	48.909			
12,300.00	10,705.73	10,607.22	9,057.13	39.99	37.54	0.38	1,625.20	-625.35	1,648.74	1,613.99	34.75	47.440			
12,400.00	10,704.56	10,707.22	9,055.96	41.52	39.15	0.36	1,724.27	-638.93	1,648.75	1,612.92	35.83	46.019			
12,500.00	10,703.40	10,807.22	9,054.79	43.08	40.78	0.35	1,823.33	-652.52	1,648.75	1,611.82	36.93	44.649			
12,600.00	10,702.23	10,907.22	9,053.62	44.67	42.43	0.34	1,922.40	-666.11	1,648.75	1,610.70	38.05	43.330			
12,700.00	10,701.07	11,007.22	9,052.45	46.28	44.11	0.33	2,021.46	-679.70	1,648.76	1,609.56	39.20	42.063			
12,800.00	10,699.90	11,107.22	9,051.28	47.90	45.80	0.31	2,120.53	-693.29	1,648.76	1,608.40	40.36	40.846			
12,900.00	10,698.74	11,207.22	9,050.11	49.55	47.50	0.30	2,219.59	-706.88	1,648.77	1,607.22	41.55	39.681			
13,000.00	10,697.57	11,307.22	9,048.94	51.21	49.22	0.29	2,318.66	-720.47	1,648.77	1,606.02	42.75	38.564			
13,100.00	10,696.41	11,407.22	9,047.76	52.89	50.95	0.28	2,417.72	-734.06	1,648.77	1,604.80	43.97	37.496			
13,200.00	10,695.24	11,507.22	9,046.59	54.58	52.69	0.27	2,516.79	-747.64	1,648.78	1,603.57	45.21	36.473			
13,300.00	10,694.08	11,607.22	9,045.42	56.29	54.44	0.25	2,615.85	-761.23	1,648.78	1,602.33	46.45	35.494			
13,400.00	10,692.91	11,707.22	9,044.25	58.00	56.20	0.24	2,714.92	-774.82	1,648.79	1,601.08	47.71	34.557			
13,500.00	10,691.74	11,807.21	9,043.08	59.73	57.97	0.23	2,813.98	-788.41	1,648.79	1,599.81	48.98	33.661			
13,600.00	10,690.58	11,907.21	9,041.91	61.46	59.74	0.22	2,913.05	-802.00	1,648.80	1,598.53	50.26	32.803			
13,700.00	10,689.41	12,007.21	9,040.74	63.21	61.52	0.21	3,012.11	-815.59	1,648.80	1,597.25	51.55	31.982			
13,800.00	10,688.25	12,107.21	9,039.57	64.96	63.31	0.19	3,111.18	-829.18	1,648.81	1,595.95	52.85	31.195			
13,900.00	10,687.08	12,207.21	9,038.39	66.72	65.10	0.18	3,210.24	-842.77	1,648.81	1,594.65	54.16	30.441			
14,000.00	10,685.92	12,307.21	9,037.22	68.48	66.90	0.17	3,309.31	-856.35	1,648.81	1,593.33	55.48	29.719			
14,100.00	10,684.75	12,407.21	9,036.05	70.25	68.71	0.16	3,408.37	-869.94	1,648.82	1,592.02	56.80	29.027			
14,200.00	10,683.59	12,507.21	9,034.88	72.03	70.52	0.14	3,507.44	-883.53	1,648.82	1,590.69	58.13	28.362			
14,300.00	10,682.42	12,607.21	9,033.71	73.82	72.33	0.13	3,606.50	-897.12	1,648.83	1,589.36	59.47	27.725			
14,400.00	10,681.26	12,707.21	9,032.54	75.60	74.14	0.12	3,705.57	-910.71	1,648.83	1,588.02	60.81	27.113			
14,500.00	10,680.09	12,807.21	9,031.37	77.40	75.96	0.11	3,804.63	-924.30	1,648.84	1,586.68	62.16	26.525			
14,600.00	10,678.93	12,907.21	9,030.20	79.19	77.79	0.10	3,903.70	-937.89	1,648.84	1,585.33	63.52	25.959			
14,700.00	10,677.76	13,007.21	9,029.03	80.99	79.61	0.08	4,002.76	-951.47	1,648.85	1,583.98	64.87	25.416			
14,800.00	10,676.60	13,107.21	9,027.85	82.80	81.44	0.07	4,101.83	-965.06	1,648.86	1,582.62	66.24	24.893			
14,900.00	10,675.43	13,207.21	9,026.68	84.61	83.27	0.06	4,200.89	-978.65	1,648.86	1,581.26	67.61	24.389			
15,000.00	10,674.26	13,307.21	9,025.51	86.42	85.10	0.05	4,299.95	-992.24	1,648.87	1,579.89	68.98	23.904			
15,100.00	10,673.10	13,407.21	9,024.34	88.23	86.94	0.03	4,399.02	-1,005.83	1,648.87	1,578.52	70.35	23.437			
15,200.00	10,671.93	13,507.20	9,023.17	90.05	88.78	0.02	4,498.08	-1,019.42	1,648.88	1,577.15	71.73	22.987			
15,300.00	10,670.77	13,607.20	9,022.00	91.87	90.62	0.01	4,597.15	-1,033.01	1,648.88	1,575.77	73.11	22.552			
15,365.93	10,670.00	13,673.13	9,021.23	93.07	91.83	0.00	4,662.46	-1,041.97	1,648.89	1,574.86	74.03	22.274			

LEAM Drilling Systems LLC
Anticollision Report

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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:	2H	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 Depths are relative to 3479.1' GL + 25' RKB @ 3504.10usft
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: 2H
Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Grid Convergence at Surface is: 0.45°



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

LEAM Drilling Systems LLC

Anticollision Report

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Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

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