

HOBBS CCD

APR 25 2016

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DEVON ENERGY

**Lea County, NM (NAD-83)
Green Wave 20-17 Fed
21H**

**OH
Plan #1**

Anticollision Report

08 July, 2015

APR 25 2016

LEAM Drilling Systems LLC

Anticollision Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 21H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3354.8' GL + 25' RKB @ 3379.80usft
Reference Site:	Green Wave 20-17 Fed	MD Reference:	3354.8' GL + 25' RKB @ 3379.80usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	21H	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	7/8/2015		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	17,389.95	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						
Green Wave 20-17 Fed:						
31H - OH - Plan #1	4,266.30	4,267.40	50.00	31.10	2.646	CC
31H - OH - Plan #1	4,500.00	4,501.00	50.16	30.25	2.519	ES
31H - OH - Plan #1	17,389.95	17,859.31	238.90	123.22	2.065	SF
41H - OH - Plan #1	6,000.00	6,001.90	100.02	73.33	3.747	CC, ES
41H - OH - Plan #1	6,100.00	6,101.90	100.81	73.67	3.714	SF

Offset Design										Green Wave 20-17 Fed - 31H - 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 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			
0.00	0.00	1.10	1.10	0.00	0.00	179.48	-50.00	0.45	50.00						
100.00	100.00	101.10	101.10	0.08	0.09	179.48	-50.00	0.45	50.00	49.83	0.17	292.329			
200.00	200.00	201.10	201.10	0.31	0.31	179.48	-50.00	0.45	50.00	49.38	0.62	80.573			
300.00	300.00	301.10	301.10	0.53	0.54	179.48	-50.00	0.45	50.00	48.93	1.07	46.726			
400.00	400.00	401.10	401.10	0.76	0.76	179.48	-50.00	0.45	50.00	48.48	1.52	32.904			
500.00	500.00	501.10	501.10	0.98	0.99	179.48	-50.00	0.45	50.00	48.03	1.97	25.392			
600.00	600.00	601.10	601.10	1.21	1.21	179.48	-50.00	0.45	50.00	47.58	2.42	20.673			
700.00	700.00	701.10	701.10	1.43	1.44	179.48	-50.00	0.45	50.00	47.13	2.87	17.433			
800.00	800.00	801.10	801.10	1.66	1.66	179.48	-50.00	0.45	50.00	46.68	3.32	15.071			
900.00	900.00	901.10	901.10	1.88	1.88	179.48	-50.00	0.45	50.00	46.23	3.77	13.273			
1,000.00	1,000.00	1,001.10	1,001.10	2.11	2.11	179.48	-50.00	0.45	50.00	45.79	4.22	11.858			
1,100.00	1,100.00	1,101.10	1,101.10	2.33	2.33	179.48	-50.00	0.45	50.00	45.34	4.67	10.715			
1,200.00	1,200.00	1,201.10	1,201.10	2.56	2.56	179.48	-50.00	0.45	50.00	44.89	5.12	9.774			
1,300.00	1,300.00	1,301.10	1,301.10	2.78	2.78	179.48	-50.00	0.45	50.00	44.44	5.57	8.984			
1,400.00	1,400.00	1,401.10	1,401.10	3.01	3.01	179.48	-50.00	0.45	50.00	43.99	6.01	8.313			
1,500.00	1,500.00	1,501.10	1,501.10	3.23	3.23	179.48	-50.00	0.45	50.00	43.54	6.46	7.735			
1,600.00	1,600.00	1,601.10	1,601.10	3.46	3.46	179.48	-50.00	0.45	50.00	43.09	6.91	7.232			
1,700.00	1,700.00	1,701.10	1,701.10	3.68	3.68	179.48	-50.00	0.45	50.00	42.64	7.36	6.790			
1,800.00	1,800.00	1,801.10	1,801.10	3.91	3.91	179.48	-50.00	0.45	50.00	42.19	7.81	6.400			
1,900.00	1,900.00	1,901.10	1,901.10	4.13	4.13	179.48	-50.00	0.45	50.00	41.74	8.26	6.052			
2,000.00	2,000.00	2,001.10	2,001.10	4.35	4.36	179.48	-50.00	0.45	50.00	41.29	8.71	5.739			
2,100.00	2,100.00	2,101.10	2,101.10	4.58	4.58	179.48	-50.00	0.45	50.00	40.84	9.16	5.458			

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 21H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3354.8' GL + 25' RKB @ 3379.80usft
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Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	21H	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: Green Wave 20-17 Fed - 31H - 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		Highside Tooface (")	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)			
2,200.00	2,200.00	2,201.10	2,201.10	4.80	4.81	179.48	-50.00	0.45	50.00	40.39	9.61	5.202	
2,300.00	2,300.00	2,301.10	2,301.10	5.03	5.03	179.48	-50.00	0.45	50.00	39.94	10.06	4.970	
2,400.00	2,400.00	2,401.10	2,401.10	5.25	5.26	179.48	-50.00	0.45	50.00	39.49	10.51	4.757	
2,500.00	2,500.00	2,501.10	2,501.10	5.48	5.48	179.48	-50.00	0.45	50.00	39.04	10.96	4.562	
2,600.00	2,600.00	2,601.10	2,601.10	5.70	5.71	179.48	-50.00	0.45	50.00	38.59	11.41	4.383	
2,700.00	2,700.00	2,701.10	2,701.10	5.93	5.93	179.48	-50.00	0.45	50.00	38.14	11.86	4.216	
2,800.00	2,800.00	2,801.10	2,801.10	6.15	6.16	179.48	-50.00	0.45	50.00	37.69	12.31	4.062	
2,900.00	2,900.00	2,901.10	2,901.10	6.38	6.38	179.48	-50.00	0.45	50.00	37.24	12.76	3.919	
3,000.00	3,000.00	3,001.10	3,001.10	6.60	6.60	179.48	-50.00	0.45	50.00	36.79	13.21	3.786	
3,100.00	3,100.00	3,101.10	3,101.10	6.83	6.83	179.48	-50.00	0.45	50.00	36.35	13.66	3.661	
3,200.00	3,200.00	3,201.10	3,201.10	7.05	7.05	179.48	-50.00	0.45	50.00	35.90	14.11	3.545	
3,300.00	3,300.00	3,301.10	3,301.10	7.28	7.28	179.48	-50.00	0.45	50.00	35.45	14.56	3.435	
3,400.00	3,400.00	3,401.10	3,401.10	7.50	7.50	179.48	-50.00	0.45	50.00	35.00	15.01	3.332	
3,500.00	3,500.00	3,501.10	3,501.10	7.73	7.73	179.48	-50.00	0.45	50.00	34.55	15.46	3.235	
3,600.00	3,600.00	3,601.10	3,601.10	7.95	7.95	179.48	-50.00	0.45	50.00	34.10	15.90	3.144	
3,700.00	3,700.00	3,701.10	3,701.10	8.18	8.18	179.48	-50.00	0.45	50.00	33.65	16.35	3.057	
3,800.00	3,800.00	3,801.10	3,801.10	8.40	8.40	179.48	-50.00	0.45	50.00	33.20	16.80	2.976	
3,900.00	3,900.00	3,901.10	3,901.10	8.63	8.63	179.48	-50.00	0.45	50.00	32.75	17.25	2.898	
4,000.00	4,000.00	4,001.10	4,001.10	8.85	8.85	179.48	-50.00	0.45	50.00	32.30	17.70	2.825	
4,100.00	4,100.00	4,101.10	4,101.10	9.07	9.08	179.48	-50.00	0.45	50.00	31.85	18.15	2.755	
4,200.00	4,200.00	4,201.10	4,201.10	9.30	9.30	179.48	-50.00	0.45	50.00	31.40	18.60	2.688	
4,266.30	4,266.30	4,267.40	4,267.40	9.45	9.45	179.48	-50.00	0.45	50.00	31.10	18.90	2.646 CC	
4,300.00	4,300.00	4,301.10	4,301.10	9.52	9.53	179.48	-50.00	0.45	50.00	30.95	19.05	2.625	
4,400.00	4,400.00	4,401.08	4,401.08	9.75	9.74	178.46	-50.00	1.34	50.02	30.53	19.49	2.587	
4,500.00	4,500.00	4,501.00	4,500.96	9.97	9.93	175.45	-50.00	3.98	50.16	30.25	19.91	2.519 ES	
4,600.00	4,600.00	4,600.80	4,600.66	10.20	10.13	170.53	-50.00	8.34	50.69	30.36	20.33	2.493	
4,700.00	4,700.00	4,700.42	4,700.09	10.42	10.34	163.90	-50.00	14.44	52.05	31.30	20.76	2.508	
4,800.00	4,800.00	4,799.79	4,799.16	10.65	10.54	156.03	-50.00	22.23	54.76	33.57	21.18	2.585	
4,900.00	4,900.00	4,899.41	4,898.40	10.87	10.75	148.27	-50.00	30.92	58.85	37.24	21.61	2.724	
5,000.00	5,000.00	4,999.03	4,997.64	11.10	10.97	141.62	-50.00	39.60	63.88	41.84	22.03	2.899	
5,100.00	5,100.00	5,098.65	5,096.88	11.32	11.18	136.00	-50.00	48.28	69.63	47.18	22.46	3.101	
5,200.00	5,200.00	5,198.27	5,196.12	11.55	11.40	131.27	-50.00	56.96	75.96	53.08	22.88	3.319	
5,300.00	5,300.00	5,297.89	5,295.36	11.77	11.62	127.29	-50.00	65.65	82.72	59.41	23.31	3.548	
5,400.00	5,400.00	5,397.51	5,394.60	12.00	11.84	123.93	-50.00	74.33	89.82	66.08	23.74	3.783	
5,500.00	5,500.00	5,497.12	5,493.84	12.22	12.06	121.06	-50.00	83.01	97.18	73.01	24.17	4.020	
5,600.00	5,600.00	5,596.74	5,593.08	12.45	12.29	118.60	-50.00	91.69	104.75	80.15	24.60	4.258	
5,700.00	5,700.00	5,596.36	5,592.32	12.67	12.52	116.48	-50.00	100.38	112.48	87.45	25.04	4.493	
5,800.00	5,800.00	5,795.98	5,791.56	12.90	12.75	114.63	-50.00	109.06	120.35	94.88	25.47	4.725	
5,900.00	5,900.00	5,895.60	5,890.80	13.12	12.98	113.01	-50.00	117.74	128.33	102.43	25.90	4.954	
6,000.00	6,000.00	5,995.22	5,990.04	13.35	13.21	111.58	-50.00	126.42	136.40	110.06	26.34	5.178	
6,100.00	6,100.00	6,096.00	6,090.47	13.57	13.44	85.62	-50.00	134.81	144.10	117.31	26.79	5.379	
6,200.00	6,199.96	6,196.99	6,191.17	13.79	13.64	85.55	-50.00	142.32	150.87	123.66	27.21	5.545	
6,300.00	6,299.86	6,298.06	6,292.03	14.01	13.85	86.25	-50.00	148.95	156.69	129.06	27.63	5.670	
6,400.00	6,399.88	6,399.16	6,392.97	14.24	14.06	87.64	-50.00	154.70	161.64	133.58	28.06	5.760	
6,500.00	6,499.37	6,500.22	6,493.90	14.46	14.27	89.70	-50.00	159.55	165.86	137.37	28.49	5.822	
6,600.00	6,598.99	6,601.23	6,594.84	14.68	14.47	92.11	-50.00	163.51	169.53	140.61	28.92	5.862	
6,700.00	6,698.60	6,702.24	6,695.81	14.91	14.67	94.57	-50.00	166.58	172.73	143.37	29.36	5.883	
6,800.00	6,798.22	6,803.23	6,796.77	15.13	14.88	97.09	-50.00	168.76	175.47	145.68	29.80	5.889	
6,900.00	6,897.84	6,904.19	6,897.72	15.36	15.08	99.68	-50.00	170.04	177.82	147.58	30.24	5.881	
7,000.00	6,897.46	7,005.03	6,998.56	15.59	15.27	102.37	-50.00	170.45	179.81	149.14	30.67	5.863	
7,100.00	7,097.12	7,104.69	7,098.22	15.79	15.47	104.92	-50.00	170.45	181.77	150.69	31.09	5.847	
7,200.00	7,196.84	7,204.41	7,197.94	15.97	15.68	107.16	-50.00	170.45	183.83	152.33	31.50	5.836	

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Reference Wellbore:	OH	Database:	EDM-5000.1 Single-User.Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design: Green Wave 20-17 Fed - 31H - 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)	E/W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
7,300.00	7,296.63	7,304.20	7,297.73	16.15	15.90	109.09	-50.00	170.45	185.87	153.98	31.91	5.825	
7,400.00	7,396.47	7,404.04	7,397.57	16.34	16.12	110.73	-50.00	170.45	187.80	155.48	32.31	5.812	
7,500.00	7,496.35	7,503.92	7,497.45	16.52	16.34	112.10	-50.00	170.45	189.55	156.83	32.72	5.793	
7,600.00	7,596.28	7,603.85	7,597.38	16.70	16.56	113.19	-50.00	170.45	191.07	157.94	33.13	5.767	
7,700.00	7,696.23	7,703.80	7,697.33	16.88	16.78	114.04	-50.00	170.45	192.29	158.76	33.53	5.734	
7,800.00	7,796.20	7,803.77	7,797.30	17.06	17.00	114.63	-50.00	170.45	193.19	159.25	33.94	5.692	
7,900.00	7,896.20	7,903.77	7,897.30	17.24	17.22	114.98	-50.00	170.45	193.74	159.40	34.34	5.642	
8,000.00	7,996.19	8,003.76	7,997.29	17.42	17.44	140.10	-50.00	170.45	193.92	159.18	34.74	5.582	
8,100.00	8,096.19	8,103.76	8,097.29	17.62	17.66	140.10	-50.00	170.45	193.92	158.76	35.16	5.515	
8,200.00	8,196.19	8,203.76	8,197.29	17.84	17.88	140.10	-50.00	170.45	193.92	158.32	35.61	5.446	
8,300.00	8,296.19	8,303.76	8,297.29	18.07	18.10	140.10	-50.00	170.45	193.92	157.87	36.05	5.379	
8,400.00	8,396.19	8,403.76	8,397.29	18.29	18.32	140.10	-50.00	170.45	193.92	157.43	36.49	5.314	
8,500.00	8,496.19	8,503.76	8,497.29	18.51	18.54	140.10	-50.00	170.45	193.92	156.98	36.94	5.250	
8,600.00	8,596.19	8,603.76	8,597.29	18.73	18.76	140.10	-50.00	170.45	193.92	156.54	37.38	5.187	
8,700.00	8,696.19	8,703.76	8,697.29	18.96	18.98	140.10	-50.00	170.45	193.92	156.09	37.83	5.127	
8,800.00	8,796.19	8,803.76	8,797.29	19.18	19.20	140.10	-50.00	170.45	193.92	155.65	38.27	5.067	
8,900.00	8,896.19	8,903.76	8,897.29	19.40	19.42	140.10	-50.00	170.45	193.92	155.21	38.72	5.009	
9,000.00	8,996.19	9,003.76	8,997.29	19.63	19.64	140.10	-50.00	170.45	193.92	154.76	39.16	4.952	
9,100.00	9,096.19	9,103.76	9,097.29	19.85	19.86	140.10	-50.00	170.45	193.92	154.32	39.61	4.896	
9,200.00	9,196.19	9,203.76	9,197.29	20.07	20.08	140.10	-50.00	170.45	193.92	153.87	40.05	4.842	
9,300.00	9,296.19	9,303.76	9,297.29	20.30	20.30	140.10	-50.00	170.45	193.92	153.43	40.50	4.789	
9,367.94	9,364.13	9,371.70	9,365.23	20.45	20.45	140.10	-50.00	170.45	193.92	153.12	40.80	4.753	
9,400.00	9,396.17	9,403.74	9,397.27	20.52	20.52	140.71	-50.00	170.45	194.69	153.78	40.91	4.759	
9,450.00	9,445.86	9,453.42	9,446.96	20.64	20.63	141.41	-50.00	170.45	198.95	158.00	40.94	4.859	
9,500.00	9,494.78	9,502.35	9,495.88	20.76	20.74	142.61	-50.00	170.45	207.06	166.25	40.81	5.074	
9,550.00	9,542.51	9,550.08	9,543.61	20.89	20.85	144.13	-50.00	170.45	219.17	178.69	40.48	5.415	
9,600.00	9,588.59	9,596.16	9,589.69	21.02	20.95	145.78	-50.00	170.45	235.42	195.48	39.95	5.893	
9,650.00	9,632.61	9,640.18	9,633.71	21.16	21.05	147.36	-50.00	170.45	255.90	216.68	39.22	6.525	
9,700.00	9,674.15	9,681.72	9,675.25	21.32	21.14	148.71	-50.00	170.45	280.58	242.26	38.32	7.322	
9,750.00	9,712.84	9,720.41	9,713.88	21.49	21.32	152.29	-44.40	170.31	306.96	269.86	37.10	8.274	
9,800.00	9,748.32	9,755.89	9,751.77	21.68	21.54	155.64	-20.58	169.74	330.69	294.97	35.72	9.259	
9,850.00	9,780.27	9,787.84	9,781.57	21.90	21.79	158.36	30.63	168.52	350.00	315.73	34.28	10.211	
9,900.00	9,808.38	9,815.95	9,809.68	22.14	22.11	160.27	117.55	166.43	362.89	330.00	32.89	11.033	
9,950.00	9,832.40	9,840.00	9,833.60	22.41	22.62	161.17	239.59	163.51	367.51	335.81	31.70	11.594	
10,000.00	9,852.10	9,860.00	9,853.90	22.70	23.39	160.98	380.78	160.13	363.04	332.20	30.85	11.770	
10,050.00	9,867.32	9,875.00	9,868.68	23.03	24.12	160.21	491.86	157.48	350.73	320.42	30.31	11.572	
10,100.00	9,877.90	9,885.00	9,881.10	23.38	24.49	160.11	540.55	156.31	339.93	310.19	29.74	11.429	
10,150.00	9,883.75	9,890.00	9,886.25	23.75	24.88	160.11	590.09	155.12	333.59	304.10	29.49	11.314	
10,187.21	9,885.00	9,890.00	9,886.00	24.05	25.20	160.17	627.23	154.24	331.78	302.28	29.50	11.245	
10,200.00	9,884.98	9,890.00	9,886.02	24.15	25.31	160.19	640.02	153.93	331.59	302.02	29.57	11.212	
10,300.00	9,884.77	9,890.00	9,886.23	25.03	26.24	160.39	739.96	151.54	330.11	299.92	30.19	10.936	
10,400.00	9,884.56	9,890.00	9,886.44	26.00	27.25	160.58	839.91	149.15	328.63	297.75	30.88	10.641	
10,500.00	9,884.35	9,890.00	9,886.65	27.06	28.35	160.78	939.85	148.75	327.15	295.49	31.66	10.333	
10,600.00	9,884.14	9,890.00	9,886.86	28.20	29.53	160.98	1,039.80	144.36	325.68	293.17	32.51	10.018	
10,700.00	9,883.94	9,890.00	9,886.06	29.41	30.76	161.19	1,139.75	141.97	324.21	290.79	33.42	9.701	
10,800.00	9,883.73	9,890.00	9,886.27	30.69	32.06	161.39	1,239.69	139.58	322.75	288.36	34.39	9.385	
10,900.00	9,883.52	9,890.00	9,886.48	32.01	33.40	161.60	1,339.64	137.18	321.29	285.88	35.41	9.074	
11,000.00	9,883.31	9,890.00	9,886.69	33.38	34.79	161.81	1,439.59	134.79	319.83	283.36	36.47	8.770	
11,100.00	9,883.10	9,890.00	9,886.90	34.80	36.22	162.02	1,539.53	132.40	318.38	280.81	37.57	8.474	
11,200.00	9,882.89	9,890.00	9,887.11	36.25	37.68	162.23	1,639.48	130.01	316.93	278.23	38.70	8.189	
11,300.00	9,882.69	9,890.00	9,887.31	37.74	39.18	162.44	1,739.43	127.62	315.49	275.62	39.87	7.914	
11,400.00	9,882.48	9,890.00	9,887.52	39.25	40.70	162.66	1,839.37	125.22	314.05	273.00	41.05	7.650	

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 21H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3354.8' GL + 25' RKB @ 3379.80usft
Reference Site:	Green Wave 20-17 Fed	MD Reference:	3354.8' GL + 25' RKB @ 3379.80usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	21H	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: Green Wave 20-17 Fed - 31H - OH - Plan #1														Offset Site Error: 0.00 usft
Survey Program: 0-LEAM MWD-ADJ														Offset Well Error: 0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
				(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)		
11,500.00	9,882.27	11,972.95	10,182.09	40.79	42.25	162.88		1,939.32	122.83	312.62	270.36	42.26	7.398	
11,600.00	9,882.06	12,072.93	10,180.86	42.35	43.82	163.10		2,039.27	120.44	311.19	267.70	43.48	7.157	
11,700.00	9,881.85	12,172.92	10,179.64	43.93	45.40	163.32		2,139.21	118.05	309.76	265.04	44.72	6.927	
11,800.00	9,881.64	12,272.90	10,178.41	45.53	47.01	163.54		2,239.16	115.65	308.34	262.37	45.97	6.707	
11,900.00	9,881.44	12,372.88	10,177.19	47.15	48.63	163.77		2,339.11	113.26	306.93	259.69	47.23	6.498	
12,000.00	9,881.23	12,472.86	10,175.97	48.78	50.27	164.00		2,439.05	110.87	305.51	257.02	48.50	6.299	
12,100.00	9,881.02	12,572.85	10,174.74	50.43	51.92	164.23		2,539.00	108.48	304.11	254.34	49.77	6.110	
12,200.00	9,880.81	12,672.83	10,173.52	52.09	53.58	164.46		2,638.94	106.09	302.71	251.66	51.05	5.930	
12,300.00	9,880.60	12,772.81	10,172.29	53.76	55.26	164.70		2,738.89	103.69	301.31	248.98	52.33	5.758	
12,400.00	9,880.39	12,872.79	10,171.07	55.44	56.94	164.93		2,838.84	101.30	299.92	246.31	53.61	5.595	
12,500.00	9,880.19	12,972.78	10,169.84	57.12	58.63	165.17		2,938.78	98.91	298.54	243.65	54.89	5.439	
12,600.00	9,879.98	13,072.76	10,168.62	58.82	60.33	165.41		3,038.73	96.52	297.16	240.99	56.17	5.290	
12,700.00	9,879.77	13,172.74	10,167.39	60.52	62.04	165.66		3,138.68	94.12	295.78	238.33	57.45	5.149	
12,800.00	9,879.56	13,272.72	10,166.17	62.24	63.75	165.90		3,238.62	91.73	294.41	235.69	58.72	5.013	
12,900.00	9,879.35	13,372.71	10,164.94	63.95	65.47	166.15		3,338.57	89.34	293.05	233.05	60.00	4.884	
13,000.00	9,879.14	13,472.69	10,163.72	65.68	67.20	166.40		3,438.52	86.95	291.69	230.42	61.27	4.761	
13,100.00	9,878.94	13,572.67	10,162.50	67.41	68.93	166.65		3,538.46	84.56	290.34	227.80	62.53	4.643	
13,200.00	9,878.73	13,672.65	10,161.27	69.14	70.67	166.91		3,638.41	82.16	288.99	225.20	63.79	4.530	
13,300.00	9,878.52	13,772.64	10,160.05	70.88	72.41	167.17		3,738.36	79.77	287.65	222.60	65.05	4.422	
13,400.00	9,878.31	13,872.62	10,158.82	72.62	74.16	167.43		3,838.30	77.38	286.31	220.01	66.30	4.318	
13,500.00	9,878.10	13,972.60	10,157.60	74.37	75.91	167.69		3,938.25	74.99	284.98	217.44	67.54	4.219	
13,600.00	9,877.89	14,072.59	10,156.37	76.12	77.66	167.95		4,038.20	72.59	283.66	214.87	68.78	4.124	
13,700.00	9,877.68	14,172.57	10,155.15	77.88	79.42	168.22		4,138.14	70.20	282.34	212.32	70.02	4.032	
13,800.00	9,877.48	14,272.55	10,153.92	79.63	81.18	168.49		4,238.09	67.81	281.03	209.78	71.25	3.944	
13,900.00	9,877.27	14,372.53	10,152.70	81.39	82.94	168.76		4,338.04	65.42	279.72	207.25	72.47	3.860	
14,000.00	9,877.06	14,472.52	10,151.47	83.16	84.71	169.04		4,437.98	63.03	278.43	204.73	73.69	3.778	
14,100.00	9,876.85	14,572.50	10,150.25	84.93	86.48	169.31		4,537.93	60.63	277.13	202.23	74.90	3.700	
14,200.00	9,876.65	14,672.48	10,149.03	86.69	88.25	169.59		4,637.87	58.24	275.85	199.74	76.11	3.624	
14,300.00	9,876.44	14,772.46	10,147.80	88.47	90.03	169.88		4,737.82	55.85	274.57	197.25	77.32	3.551	
14,400.00	9,876.23	14,872.45	10,146.58	90.24	91.81	170.16		4,837.77	53.46	273.30	194.78	78.52	3.481	
14,500.00	9,876.02	14,972.43	10,145.35	92.02	93.58	170.45		4,937.71	51.06	272.03	192.32	79.71	3.413	
14,600.00	9,875.81	15,072.41	10,144.13	93.79	95.37	170.74		5,037.66	48.67	270.77	189.87	80.90	3.347	
14,700.00	9,875.60	15,172.39	10,142.90	95.57	97.15	171.03		5,137.61	46.28	269.52	187.43	82.09	3.283	
14,800.00	9,875.40	15,272.38	10,141.68	97.36	98.93	171.33		5,237.55	43.89	268.28	185.00	83.28	3.222	
14,900.00	9,875.19	15,372.36	10,140.45	99.14	100.72	171.63		5,337.50	41.50	267.04	182.58	84.46	3.162	
15,000.00	9,874.98	15,472.34	10,139.23	100.92	102.51	171.93		5,437.45	39.10	265.81	180.17	85.64	3.104	
15,100.00	9,874.77	15,572.32	10,138.01	102.71	104.30	172.23		5,537.39	36.71	264.59	177.77	86.82	3.047	
15,200.00	9,874.56	15,672.31	10,136.78	104.50	106.09	172.54		5,637.34	34.32	263.37	175.37	88.00	2.993	
15,300.00	9,874.35	15,772.29	10,135.56	106.29	107.88	172.85		5,737.29	31.93	262.17	172.98	89.18	2.940	
15,400.00	9,874.15	15,872.27	10,134.33	108.08	109.68	173.16		5,837.23	29.53	260.97	170.60	90.36	2.888	
15,500.00	9,873.94	15,972.25	10,133.11	109.87	111.47	173.48		5,937.18	27.14	259.78	168.23	91.55	2.838	
15,600.00	9,873.73	16,072.24	10,131.88	111.66	113.27	173.80		6,037.13	24.75	258.59	165.86	92.73	2.789	
15,700.00	9,873.52	16,172.22	10,130.66	113.46	115.07	174.12		6,137.07	22.36	257.42	163.49	93.92	2.741	
15,800.00	9,873.31	16,272.20	10,129.43	115.25	116.87	174.44		6,237.02	19.97	256.25	161.13	95.12	2.694	
15,900.00	9,873.10	16,372.19	10,128.21	117.05	118.66	174.77		6,336.96	17.57	255.09	158.77	96.32	2.648	
16,000.00	9,872.90	16,472.17	10,126.98	118.84	120.47	175.10		6,436.91	15.18	253.94	156.41	97.53	2.604	
16,100.00	9,872.69	16,572.15	10,125.76	120.64	122.27	175.43		6,536.86	12.79	252.80	154.06	98.74	2.560	
16,200.00	9,872.48	16,672.13	10,124.54	122.44	124.07	175.77		6,636.80	10.40	251.66	151.70	99.96	2.518	
16,300.00	9,872.27	16,772.12	10,123.31	124.24	125.87	176.11		6,736.75	8.00	250.54	149.34	101.20	2.476	
16,400.00	9,872.06	16,872.10	10,122.09	126.04	127.68	176.45		6,836.70	5.61	249.42	146.98	102.44	2.435	
16,500.00	9,871.85	16,972.08	10,120.86	127.84	129.48	176.80		6,936.64	3.22	248.32	144.62	103.70	2.395	
16,600.00	9,871.65	17,072.06	10,119.64	129.65	131.29	177.15		7,036.59	0.83	247.22	142.25	104.97	2.355	

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 21H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3354.8' GL + 25' RKB @ 3379.80usft
Reference Site:	Green Wave 20-17 Fed	MD Reference:	3354.8' GL + 25' RKB @ 3379.80usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	21H	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														Offset Site Error:		0.00 usft
Green Wave 20-17 Fed- 31H - OH - Plan #1														Offset Well Error:		0.00 usft
Survey Program: 0-LEAM MWD-ADJ																
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)						
16,700.00	9,871.44	17,172.05	10,118.41	131.45	133.10	177.50	7,136.54	-1.56	246.13	139.87	106.26	2.316				
16,800.00	9,871.23	17,272.03	10,117.19	133.25	134.90	177.85	7,236.48	-3.96	245.05	137.49	107.56	2.278				
16,900.00	9,871.02	17,372.01	10,115.96	135.06	136.71	178.21	7,336.43	-6.35	243.98	135.10	108.88	2.241				
17,000.00	9,870.81	17,471.99	10,114.74	136.86	138.52	178.57	7,436.38	-8.74	242.92	132.70	110.23	2.204				
17,100.00	9,870.60	17,571.98	10,113.51	138.67	140.33	178.94	7,536.32	-11.13	241.87	130.28	111.59	2.168				
17,200.00	9,870.40	17,671.96	10,112.29	140.47	142.14	179.30	7,636.27	-13.53	240.83	127.86	112.97	2.132				
17,300.00	9,870.19	17,771.94	10,111.07	142.28	143.95	179.67	7,736.22	-15.92	239.80	125.42	114.38	2.096				
17,389.79	9,870.00	17,859.31	10,110.00	143.90	145.53	-180.00	7,823.55	-18.01	238.90	123.22	115.67	2.065				
17,389.95	9,870.00	17,859.31	10,110.00	143.90	145.53	-180.00	7,823.55	-18.01	238.90	123.22	115.67	2.065 SF				

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

LEAM Drilling Systems LLC

Anticollision Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 21H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3354.8' GL + 25' RKB @ 3379.80usft
Reference Site:	Green Wave 20-17 Fed	MD Reference:	3354.8' GL + 25' RKB @ 3379.80usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	21H	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 Green Wave 20-17 Fed - 41H - 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		Between		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)	Separation (usft)	Factor		
0.00	0.00	1.90	1.90	0.00	0.00	179.51	-100.02	0.85	100.02					
100.00	100.00	101.90	101.90	0.08	0.09	179.51	-100.02	0.85	100.02	99.85	0.17	578.689		
200.00	200.00	201.90	201.90	0.31	0.31	179.51	-100.02	0.85	100.02	99.40	0.62	160.712		
300.00	300.00	301.90	301.90	0.53	0.54	179.51	-100.02	0.85	100.02	98.95	1.07	93.313		
400.00	400.00	401.90	401.90	0.76	0.76	179.51	-100.02	0.85	100.02	98.50	1.52	65.743		
500.00	500.00	501.90	501.90	0.98	0.99	179.51	-100.02	0.85	100.02	98.05	1.97	50.748		
600.00	600.00	601.90	601.90	1.21	1.21	179.51	-100.02	0.85	100.02	97.60	2.42	41.323		
700.00	700.00	701.90	701.90	1.43	1.44	179.51	-100.02	0.85	100.02	97.15	2.87	34.851		
800.00	800.00	801.90	801.90	1.66	1.66	179.51	-100.02	0.85	100.02	96.70	3.32	30.131		
900.00	900.00	901.90	901.90	1.88	1.89	179.51	-100.02	0.85	100.02	96.25	3.77	26.538		
1,000.00	1,000.00	1,001.90	1,001.90	2.11	2.11	179.51	-100.02	0.85	100.02	95.80	4.22	23.710		
1,100.00	1,100.00	1,101.90	1,101.90	2.33	2.34	179.51	-100.02	0.85	100.02	95.36	4.67	21.427		
1,200.00	1,200.00	1,201.90	1,201.90	2.56	2.56	179.51	-100.02	0.85	100.02	94.91	5.12	19.545		
1,300.00	1,300.00	1,301.90	1,301.90	2.78	2.79	179.51	-100.02	0.85	100.02	94.46	5.57	17.966		
1,400.00	1,400.00	1,401.90	1,401.90	3.01	3.01	179.51	-100.02	0.85	100.02	94.01	6.02	16.624		
1,500.00	1,500.00	1,501.90	1,501.90	3.23	3.24	179.51	-100.02	0.85	100.02	93.56	6.47	15.468		
1,600.00	1,600.00	1,601.90	1,601.90	3.46	3.46	179.51	-100.02	0.85	100.02	93.11	6.92	14.463		
1,700.00	1,700.00	1,701.90	1,701.90	3.68	3.68	179.51	-100.02	0.85	100.02	92.66	7.37	13.580		
1,800.00	1,800.00	1,801.90	1,801.90	3.91	3.91	179.51	-100.02	0.85	100.02	92.21	7.81	12.799		
1,900.00	1,900.00	1,901.90	1,901.90	4.13	4.13	179.51	-100.02	0.85	100.02	91.76	8.26	12.103		
2,000.00	2,000.00	2,001.90	2,001.90	4.35	4.36	179.51	-100.02	0.85	100.02	91.31	8.71	11.479		
2,100.00	2,100.00	2,101.90	2,101.90	4.58	4.58	179.51	-100.02	0.85	100.02	90.86	9.16	10.915		
2,200.00	2,200.00	2,201.90	2,201.90	4.80	4.81	179.51	-100.02	0.85	100.02	90.41	9.61	10.405		
2,300.00	2,300.00	2,301.90	2,301.90	5.03	5.03	179.51	-100.02	0.85	100.02	89.96	10.06	9.940		
2,400.00	2,400.00	2,401.90	2,401.90	5.25	5.26	179.51	-100.02	0.85	100.02	89.51	10.51	9.515		
2,500.00	2,500.00	2,501.90	2,501.90	5.48	5.48	179.51	-100.02	0.85	100.02	89.06	10.96	9.125		
2,600.00	2,600.00	2,601.90	2,601.90	5.70	5.71	179.51	-100.02	0.85	100.02	88.61	11.41	8.765		
2,700.00	2,700.00	2,701.90	2,701.90	5.93	5.93	179.51	-100.02	0.85	100.02	88.16	11.86	8.433		
2,800.00	2,800.00	2,801.90	2,801.90	6.15	6.16	179.51	-100.02	0.85	100.02	87.71	12.31	8.125		
2,900.00	2,900.00	2,901.90	2,901.90	6.38	6.38	179.51	-100.02	0.85	100.02	87.26	12.76	7.839		
3,000.00	3,000.00	3,001.90	3,001.90	6.60	6.61	179.51	-100.02	0.85	100.02	86.81	13.21	7.572		
3,100.00	3,100.00	3,101.90	3,101.90	6.83	6.83	179.51	-100.02	0.85	100.02	86.36	13.66	7.323		
3,200.00	3,200.00	3,201.90	3,201.90	7.05	7.06	179.51	-100.02	0.85	100.02	85.92	14.11	7.090		
3,300.00	3,300.00	3,301.90	3,301.90	7.28	7.28	179.51	-100.02	0.85	100.02	85.47	14.56	6.871		
3,400.00	3,400.00	3,401.90	3,401.90	7.50	7.51	179.51	-100.02	0.85	100.02	85.02	15.01	6.665		
3,500.00	3,500.00	3,501.90	3,501.90	7.73	7.73	179.51	-100.02	0.85	100.02	84.57	15.46	6.471		
3,600.00	3,600.00	3,601.90	3,601.90	7.95	7.96	179.51	-100.02	0.85	100.02	84.12	15.91	6.288		
3,700.00	3,700.00	3,701.90	3,701.90	8.18	8.18	179.51	-100.02	0.85	100.02	83.67	16.36	6.115		
3,800.00	3,800.00	3,801.90	3,801.90	8.40	8.40	179.51	-100.02	0.85	100.02	83.22	16.81	5.952		
3,900.00	3,900.00	3,901.90	3,901.90	8.63	8.63	179.51	-100.02	0.85	100.02	82.77	17.26	5.797		
4,000.00	4,000.00	4,001.90	4,001.90	8.85	8.85	179.51	-100.02	0.85	100.02	82.32	17.70	5.650		
4,100.00	4,100.00	4,101.90	4,101.90	9.07	9.08	179.51	-100.02	0.85	100.02	81.87	18.15	5.510		
4,200.00	4,200.00	4,201.90	4,201.90	9.30	9.30	179.51	-100.02	0.85	100.02	81.42	18.60	5.377		
4,300.00	4,300.00	4,301.90	4,301.90	9.52	9.53	179.51	-100.02	0.85	100.02	80.97	19.05	5.250		
4,400.00	4,400.00	4,401.90	4,401.90	9.75	9.75	179.51	-100.02	0.85	100.02	80.52	19.50	5.129		
4,500.00	4,500.00	4,501.90	4,501.90	9.97	9.98	179.51	-100.02	0.85	100.02	80.07	19.95	5.013		
4,600.00	4,600.00	4,601.90	4,601.90	10.20	10.20	179.51	-100.02	0.85	100.02	79.62	20.40	4.903		
4,700.00	4,700.00	4,701.90	4,701.90	10.42	10.43	179.51	-100.02	0.85	100.02	79.17	20.85	4.797		
4,800.00	4,800.00	4,801.90	4,801.90	10.65	10.65	179.51	-100.02	0.85	100.02	78.72	21.30	4.696		
4,900.00	4,900.00	4,901.90	4,901.90	10.87	10.88	179.51	-100.02	0.85	100.02	78.27	21.75	4.599		
5,000.00	5,000.00	5,001.90	5,001.90	11.10	11.10	179.51	-100.02	0.85	100.02	77.82	22.20	4.506		
5,100.00	5,100.00	5,101.90	5,101.90	11.32	11.33	179.51	-100.02	0.85	100.02	77.37	22.65	4.416		

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 21H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3354.8' GL + 25' RKB @ 3379.80usft
Reference Site:	Green Wave 20-17 Fed	MD Reference:	3354.8' GL + 25' RKB @ 3379.80usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	21H	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: Green Wave 20-17 Fed - 41H - OH - Plan #1														Offset Site Error:	0.00 usft
Survey Program: D-LEAM-MWD-ADJ														Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis		Reference	Offset	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N-S (usft)	+E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor			
5,200.00	5,200.00	5,201.90	5,201.90	11.55	11.55	179.51	-100.02	0.85	100.02	76.92	23.10	4.330			
5,300.00	5,300.00	5,301.90	5,301.90	11.77	11.78	179.51	-100.02	0.85	100.02	76.48	23.55	4.248			
5,400.00	5,400.00	5,401.90	5,401.90	12.00	12.00	179.51	-100.02	0.85	100.02	76.03	24.00	4.168			
5,500.00	5,500.00	5,501.90	5,501.90	12.22	12.23	179.51	-100.02	0.85	100.02	75.58	24.45	4.091			
5,600.00	5,600.00	5,601.90	5,601.90	12.45	12.45	179.51	-100.02	0.85	100.02	75.13	24.90	4.017			
5,700.00	5,700.00	5,701.90	5,701.90	12.67	12.68	179.51	-100.02	0.85	100.02	74.68	25.35	3.946			
5,800.00	5,800.00	5,801.90	5,801.90	12.90	12.90	179.51	-100.02	0.85	100.02	74.23	25.80	3.877			
5,900.00	5,900.00	5,901.90	5,901.90	13.12	13.12	179.51	-100.02	0.85	100.02	73.78	26.25	3.811			
6,000.00	6,000.00	6,001.90	6,001.90	13.35	13.35	179.51	-100.02	0.85	100.02	73.33	26.70	3.747 CC, ES			
6,100.00	6,100.00	6,101.90	6,101.90	13.57	13.57	154.72	-100.02	0.85	100.81	73.87	27.14	3.714 SF			
6,200.00	6,199.96	6,201.86	6,201.86	13.79	13.80	155.33	-100.02	0.85	103.19	75.81	27.58	3.742			
6,300.00	6,299.86	6,301.76	6,301.76	14.01	14.02	156.29	-100.02	0.85	107.16	79.16	28.01	3.826			
6,400.00	6,399.88	6,401.58	6,401.58	14.24	14.25	157.52	-100.02	0.85	112.78	84.35	28.43	3.967			
6,500.00	6,499.37	6,501.27	6,501.27	14.46	14.47	158.92	-100.02	0.85	120.07	91.22	28.85	4.162			
6,600.00	6,598.99	6,600.89	6,600.89	14.68	14.70	160.32	-100.02	0.85	128.25	98.95	29.29	4.378			
6,700.00	6,698.60	6,700.50	6,700.50	14.91	14.92	161.55	-100.02	0.85	136.49	106.75	29.74	4.589			
6,800.00	6,798.22	6,800.12	6,800.12	15.13	15.14	162.64	-100.02	0.85	144.78	114.60	30.19	4.796			
6,900.00	6,897.84	6,899.74	6,899.74	15.36	15.37	163.62	-100.02	0.85	153.13	122.50	30.63	4.999			
7,000.00	6,997.46	6,999.36	6,999.36	15.59	15.59	164.49	-100.02	0.85	161.51	130.43	31.08	5.197			
7,100.00	7,097.12	7,099.02	7,099.02	15.79	15.82	165.25	-100.02	0.85	169.51	137.99	31.52	5.378			
7,200.00	7,196.84	7,198.74	7,198.74	15.97	16.04	165.87	-100.02	0.85	176.88	144.76	31.93	5.534			
7,300.00	7,296.63	7,298.53	7,298.53	16.15	16.26	166.38	-100.02	0.85	183.03	150.70	32.34	5.660			
7,400.00	7,396.47	7,398.37	7,398.37	16.34	16.49	166.79	-100.02	0.85	188.55	155.80	32.75	5.758			
7,500.00	7,496.35	7,498.25	7,498.25	16.52	16.71	167.12	-100.02	0.85	193.22	160.07	33.15	5.828			
7,600.00	7,596.28	7,598.18	7,598.18	16.70	16.94	167.38	-100.02	0.85	197.05	163.49	33.56	5.871			
7,700.00	7,696.23	7,698.13	7,698.13	16.88	17.16	167.57	-100.02	0.85	200.03	166.07	33.97	5.889			
7,800.00	7,796.20	7,798.10	7,798.10	17.06	17.39	167.71	-100.02	0.85	202.17	167.79	34.37	5.881			
7,900.00	7,896.20	7,898.10	7,898.10	17.24	17.61	167.79	-100.02	0.85	203.44	168.66	34.78	5.849			
8,000.00	7,996.19	7,998.09	7,998.09	17.42	17.84	167.19	-100.02	0.85	203.87	168.69	35.18	5.795			
8,100.00	8,096.19	8,098.09	8,098.09	17.62	18.06	167.19	-100.02	0.85	203.87	168.26	35.61	5.725			
8,200.00	8,196.19	8,198.09	8,198.09	17.84	18.29	167.19	-100.02	0.85	203.87	167.81	36.06	5.654			
8,300.00	8,296.19	8,298.09	8,298.09	18.07	18.51	167.19	-100.02	0.85	203.87	167.37	36.50	5.585			
8,400.00	8,396.19	8,398.09	8,398.09	18.29	18.74	167.19	-100.02	0.85	203.87	166.92	36.95	5.517			
8,500.00	8,496.19	8,498.09	8,498.09	18.51	18.96	167.19	-100.02	0.85	203.87	166.47	37.40	5.451			
8,600.00	8,596.19	8,598.09	8,598.09	18.73	19.19	167.19	-100.02	0.85	203.87	166.02	37.85	5.386			
8,700.00	8,696.19	8,698.09	8,698.09	18.96	19.41	167.19	-100.02	0.85	203.87	165.57	38.30	5.323			
8,800.00	8,796.19	8,798.09	8,798.09	19.18	19.63	167.19	-100.02	0.85	203.87	165.12	38.75	5.262			
8,900.00	8,896.19	8,898.09	8,898.09	19.40	19.86	167.19	-100.02	0.85	203.87	164.68	39.20	5.201			
9,000.00	8,996.19	8,998.09	8,998.09	19.63	20.08	167.19	-100.02	0.85	203.87	164.23	39.64	5.143			
9,100.00	9,096.19	9,098.09	9,098.09	19.85	20.31	167.19	-100.02	0.85	203.87	163.78	40.09	5.085			
9,200.00	9,196.19	9,198.09	9,198.09	20.07	20.53	167.19	-100.02	0.85	203.87	163.33	40.54	5.029			
9,300.00	9,296.19	9,298.09	9,298.09	20.30	20.76	167.19	-100.02	0.85	203.87	162.88	40.99	4.974			
9,367.94	9,364.13	9,366.03	9,366.03	20.45	20.91	167.19	-100.02	0.85	203.87	162.58	41.30	4.937			
9,400.00	9,396.17	9,398.07	9,398.07	20.52	20.98	166.75	-100.02	0.85	204.83	163.44	41.39	4.948			
9,450.00	9,445.86	9,447.76	9,447.76	20.64	21.09	166.96	-100.02	0.85	210.15	168.82	41.33	5.084			
9,500.00	9,494.78	9,496.68	9,496.68	20.76	21.20	167.32	-100.02	0.85	220.11	179.09	41.02	5.366			
9,550.00	9,542.51	9,544.41	9,544.41	20.89	21.31	167.76	-100.02	0.85	234.63	194.19	40.45	5.801			
9,600.00	9,588.59	9,590.49	9,590.49	21.02	21.42	168.23	-100.02	0.85	253.62	213.99	39.63	6.399			
9,650.00	9,632.61	9,634.51	9,634.51	21.16	21.51	168.67	-100.02	0.85	278.93	238.33	38.60	7.174			
9,700.00	9,674.15	9,676.05	9,676.05	21.32	21.61	169.03	-100.02	0.85	304.35	266.98	37.37	8.145			
9,750.00	9,712.84	9,714.74	9,714.74	21.49	21.69	169.25	-100.02	0.85	335.65	299.67	35.98	9.329			
9,800.00	9,748.32	9,750.22	9,750.22	21.68	21.77	169.31	-100.02	0.85	370.54	336.06	34.48	10.747			

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 21H
Project:	Lea County NM (NAD-83)	TVD Reference:	3354.8' GL + 25' RKB @ 3379.80usft
Reference Site:	Green Wave 20-17 Fed	MD Reference:	3354.8' GL + 25' RKB @ 3379.80usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	21H	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 Green Wave 20-17 Fed - 41H - OH - Plan #1													Offset Site Error:
Survey Program: 0-LEAM MWD-ADJ													0.00 usft
Reference													Offset Well Error:
Offset													0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N-S (usft)	+E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,850.00	9,780.27	9,782.17	9,782.17	21.90	21.85	-169.14	-100.02	0.85	408.70	375.78	32.93	12.412	
9,900.00	9,808.38	9,810.28	9,810.28	22.14	21.91	-168.66	-100.02	0.85	449.78	418.37	31.41	14.319	
9,950.00	9,832.40	9,834.30	9,834.30	22.41	21.96	-167.71	-100.02	0.85	493.40	463.36	30.04	16.424	
10,000.00	9,852.10	9,854.00	9,854.00	22.70	22.01	-166.00	-100.02	0.85	539.14	510.15	28.99	18.597	
10,050.00	9,867.32	10,808.36	10,444.78	23.03	25.39	-175.53	486.90	-0.55	577.20	548.85	28.35	20.363	
10,100.00	9,877.90	10,857.17	10,444.62	23.38	25.77	-175.57	535.71	-0.66	566.46	538.93	27.53	20.577	
10,150.00	9,883.75	10,906.79	10,444.45	23.75	26.15	-175.61	585.32	-0.78	560.44	533.32	27.12	20.665	
10,187.21	9,885.00	10,943.96	10,444.32	24.05	26.48	-175.63	622.49	-0.87	559.05	531.93	27.11	20.619	
10,200.00	9,884.98	10,956.75	10,444.28	24.15	26.59	-175.64	635.29	-0.90	559.02	531.88	27.17	20.577	
10,300.00	9,884.77	11,056.75	10,443.94	25.03	27.51	-175.70	735.28	-1.14	558.85	531.22	27.63	20.227	
10,400.00	9,884.56	11,156.75	10,443.80	26.00	28.52	-175.76	835.28	-1.38	558.68	530.52	28.16	19.838	
10,500.00	9,884.35	11,256.75	10,443.27	27.06	29.60	-175.82	935.28	-1.61	558.51	529.74	28.76	19.419	
10,600.00	9,884.14	11,356.74	10,442.93	28.20	30.76	-175.88	1,035.28	-1.85	558.33	528.91	29.42	18.977	
10,700.00	9,883.94	11,456.74	10,442.59	29.41	31.98	-175.94	1,135.27	-2.09	558.16	528.02	30.14	18.518	
10,800.00	9,883.73	11,556.74	10,442.25	30.69	33.25	-176.00	1,235.27	-2.33	557.99	527.08	30.92	18.049	
10,900.00	9,883.52	11,656.74	10,441.92	32.01	34.58	-176.06	1,335.27	-2.56	557.82	526.08	31.74	17.576	
11,000.00	9,883.31	11,756.74	10,441.58	33.38	35.95	-176.12	1,435.27	-2.80	557.65	525.04	32.61	17.102	
11,100.00	9,883.10	11,856.74	10,441.24	34.80	37.36	-176.18	1,535.26	-3.04	557.48	523.96	33.52	16.632	
11,200.00	9,882.89	11,956.73	10,440.90	36.25	38.80	-176.24	1,635.26	-3.28	557.31	522.85	34.47	16.169	
11,300.00	9,882.69	12,056.73	10,440.56	37.74	40.27	-176.29	1,735.26	-3.52	557.15	521.69	35.45	15.715	
11,400.00	9,882.48	12,156.73	10,440.23	39.25	41.77	-176.35	1,835.25	-3.75	556.98	520.51	36.47	15.272	
11,500.00	9,882.27	12,256.73	10,439.89	40.79	43.30	-176.41	1,935.25	-3.99	556.81	519.30	37.52	14.841	
11,600.00	9,882.06	12,356.73	10,439.55	42.35	44.85	-176.47	2,035.25	-4.23	556.65	518.06	38.59	14.424	
11,700.00	9,881.85	12,456.72	10,439.21	43.93	46.42	-176.53	2,135.25	-4.47	556.48	516.79	39.69	14.020	
11,800.00	9,881.64	12,556.72	10,438.88	45.53	48.00	-176.59	2,235.24	-4.71	556.32	515.50	40.81	13.631	
11,900.00	9,881.44	12,656.72	10,438.54	47.15	49.61	-176.65	2,335.24	-4.94	556.15	514.20	41.96	13.255	
12,000.00	9,881.23	12,756.72	10,438.20	48.78	51.23	-176.71	2,435.24	-5.18	555.99	512.87	43.12	12.894	
12,100.00	9,881.02	12,856.72	10,437.86	50.43	52.86	-176.77	2,535.24	-5.42	555.83	511.53	44.30	12.547	
12,200.00	9,880.81	12,956.72	10,437.52	52.09	54.50	-176.83	2,635.23	-5.66	555.66	510.17	45.49	12.214	
12,300.00	9,880.60	13,056.71	10,437.19	53.76	56.16	-176.89	2,735.23	-5.90	555.50	508.80	46.71	11.894	
12,400.00	9,880.39	13,156.71	10,436.85	55.44	57.83	-176.96	2,835.23	-6.13	555.34	507.41	47.93	11.586	
12,500.00	9,880.19	13,256.71	10,436.51	57.12	59.50	-177.02	2,935.23	-6.37	555.18	506.01	49.17	11.292	
12,600.00	9,879.98	13,356.71	10,436.17	58.82	61.19	-177.08	3,035.22	-6.61	555.02	504.60	50.42	11.009	
12,700.00	9,879.77	13,456.71	10,435.84	60.52	62.88	-177.14	3,135.22	-6.85	554.86	503.19	51.68	10.737	
12,800.00	9,879.56	13,556.70	10,435.50	62.24	64.58	-177.20	3,235.22	-7.08	554.70	501.76	52.95	10.477	
12,900.00	9,879.35	13,656.70	10,435.16	63.95	66.28	-177.26	3,335.21	-7.32	554.55	500.32	54.23	10.227	
13,000.00	9,879.14	13,756.70	10,434.82	65.68	67.99	-177.32	3,435.21	-7.56	554.39	498.88	55.51	9.987	
13,100.00	9,878.94	13,856.70	10,434.48	67.41	69.71	-177.38	3,535.21	-7.80	554.23	497.42	56.81	9.756	
13,200.00	9,878.73	13,956.70	10,434.15	69.14	71.44	-177.44	3,635.21	-8.04	554.08	495.96	58.11	9.535	
13,300.00	9,878.52	14,056.70	10,433.81	70.88	73.16	-177.50	3,735.20	-8.27	553.92	494.50	59.42	9.322	
13,400.00	9,878.31	14,156.69	10,433.47	72.62	74.90	-177.56	3,835.20	-8.51	553.77	493.03	60.74	9.117	
13,500.00	9,878.10	14,256.69	10,433.13	74.37	76.63	-177.62	3,935.20	-8.75	553.61	491.55	62.06	8.920	
13,600.00	9,877.89	14,356.69	10,432.80	76.12	78.38	-177.68	4,035.20	-8.99	553.46	490.07	63.39	8.731	
13,700.00	9,877.69	14,456.69	10,432.46	77.88	80.12	-177.74	4,135.19	-9.23	553.30	488.58	64.72	8.549	
13,800.00	9,877.48	14,556.69	10,432.12	79.63	81.87	-177.80	4,235.19	-9.46	553.15	487.09	66.06	8.373	
13,900.00	9,877.27	14,656.68	10,431.78	81.39	83.62	-177.86	4,335.19	-9.70	553.00	485.59	67.41	8.204	
14,000.00	9,877.06	14,756.68	10,431.44	83.16	85.38	-177.92	4,435.19	-9.94	552.85	484.09	68.75	8.041	
14,100.00	9,876.85	14,856.68	10,431.11	84.93	87.14	-177.98	4,535.18	-10.18	552.70	482.59	70.11	7.884	
14,200.00	9,876.65	14,956.68	10,430.77	86.69	88.90	-178.04	4,635.18	-10.42	552.55	481.09	71.46	7.732	
14,300.00	9,876.44	15,056.68	10,430.43	88.47	90.66	-178.11	4,735.18	-10.65	552.40	479.58	72.82	7.585	
14,400.00	9,876.23	15,156.67	10,430.09	90.24	92.43	-178.17	4,835.17	-10.89	552.25	478.06	74.19	7.444	
14,500.00	9,876.02	15,256.67	10,429.76	92.02	94.19	-178.23	4,935.17	-11.13	552.10	476.55	75.55	7.307	

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: 21H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3354.8' GL + 25' RKB @ 3379.80usft
Reference Site:	Green Wave 20-17 Fed	MD Reference:	3354.8' GL + 25' RKB @ 3379.80usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	21H	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													Green Wave 20-17 Fed - 41H - OH - Plan #1		Offset Site Error:		0.00 usft
Survey Program:													0-LEAM MWD-ADJ		Offset Well Error:		0.00 usft
Offset				Semi Major Axis			Distance										
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	Warning				
14,600.00	9,875.81	15,356.67	10,429.42	93.79	95.96	-178.29	5,035.17	-11.37	551.96	475.03	76.92	7.175					
14,700.00	9,875.60	15,456.67	10,429.08	95.57	97.74	-178.35	5,135.17	-11.60	551.81	473.51	78.30	7.048					
14,800.00	9,875.40	15,556.67	10,428.74	97.36	99.51	-178.41	5,235.16	-11.84	551.66	471.99	79.67	6.924					
14,900.00	9,875.19	15,656.67	10,428.40	99.14	101.29	-178.47	5,335.16	-12.08	551.52	470.46	81.05	6.804					
15,000.00	9,874.98	15,756.66	10,428.07	100.92	103.06	-178.53	5,435.16	-12.32	551.37	468.94	82.44	6.688					
15,100.00	9,874.77	15,856.66	10,427.73	102.71	104.84	-178.59	5,535.16	-12.56	551.23	467.41	83.82	6.576					
15,200.00	9,874.56	15,956.66	10,427.39	104.50	106.62	-178.65	5,635.15	-12.79	551.08	465.88	85.21	6.468					
15,300.00	9,874.35	16,056.66	10,427.05	106.29	108.41	-178.72	5,735.15	-13.03	550.94	464.34	86.60	6.362					
15,400.00	9,874.15	16,156.66	10,426.72	108.08	110.19	-178.78	5,835.15	-13.27	550.80	462.81	87.99	6.260					
15,500.00	9,873.94	16,256.65	10,426.38	109.87	111.98	-178.84	5,935.14	-13.51	550.66	461.27	89.38	6.161					
15,600.00	9,873.73	16,356.65	10,426.04	111.66	113.76	-178.90	6,035.14	-13.75	550.52	459.74	90.78	6.064					
15,700.00	9,873.52	16,456.65	10,425.70	113.46	115.55	-178.96	6,135.14	-13.98	550.38	458.20	92.18	5.971					
15,800.00	9,873.31	16,556.65	10,425.36	115.25	117.34	-179.02	6,235.14	-14.22	550.24	456.66	93.58	5.880					
15,900.00	9,873.10	16,656.65	10,425.03	117.05	119.13	-179.08	6,335.13	-14.46	550.10	455.11	94.98	5.792					
16,000.00	9,872.90	16,756.65	10,424.69	118.84	120.92	-179.14	6,435.13	-14.70	549.96	453.57	96.39	5.706					
16,100.00	9,872.69	16,856.64	10,424.35	120.64	122.71	-179.21	6,535.13	-14.94	549.82	452.03	97.79	5.622					
16,200.00	9,872.48	16,956.64	10,424.01	122.44	124.51	-179.27	6,635.13	-15.17	549.68	450.48	99.20	5.541					
16,300.00	9,872.27	17,056.64	10,423.68	124.24	126.30	-179.33	6,735.12	-15.41	549.55	448.94	100.61	5.462					
16,400.00	9,872.06	17,156.64	10,423.34	126.04	128.10	-179.39	6,835.12	-15.65	549.41	447.39	102.02	5.385					
16,500.00	9,871.85	17,256.64	10,423.00	127.84	129.89	-179.45	6,935.12	-15.89	549.27	445.84	103.44	5.310					
16,600.00	9,871.65	17,356.63	10,422.66	129.65	131.69	-179.51	7,035.12	-16.13	549.14	444.29	104.85	5.237					
16,700.00	9,871.44	17,456.63	10,422.32	131.45	133.49	-179.58	7,135.11	-16.36	549.01	442.74	106.27	5.166					
16,800.00	9,871.23	17,556.63	10,421.99	133.25	135.29	-179.64	7,235.11	-16.60	548.87	441.18	107.69	5.097					
16,900.00	9,871.02	17,656.63	10,421.65	135.06	137.08	-179.70	7,335.11	-16.84	548.74	439.63	109.11	5.029					
17,000.00	9,870.81	17,756.63	10,421.31	136.86	138.88	-179.76	7,435.10	-17.08	548.61	438.08	110.53	4.963					
17,100.00	9,870.60	17,856.63	10,420.97	138.67	140.69	-179.82	7,535.10	-17.31	548.47	436.52	111.95	4.899					
17,200.00	9,870.40	17,956.62	10,420.64	140.47	142.49	-179.88	7,635.10	-17.55	548.34	434.96	113.38	4.836					
17,300.00	9,870.19	18,056.62	10,420.30	142.28	144.29	-179.95	7,735.10	-17.79	548.21	433.41	114.81	4.775					
17,383.36	9,870.01	18,139.98	10,420.02	143.78	145.79	-180.00	7,818.46	-17.99	548.11	432.11	116.00	4.725					
17,389.95	9,870.00	18,145.59	10,420.00	143.90	145.89	180.00	7,824.06	-18.00	548.10	432.01	116.09	4.722					

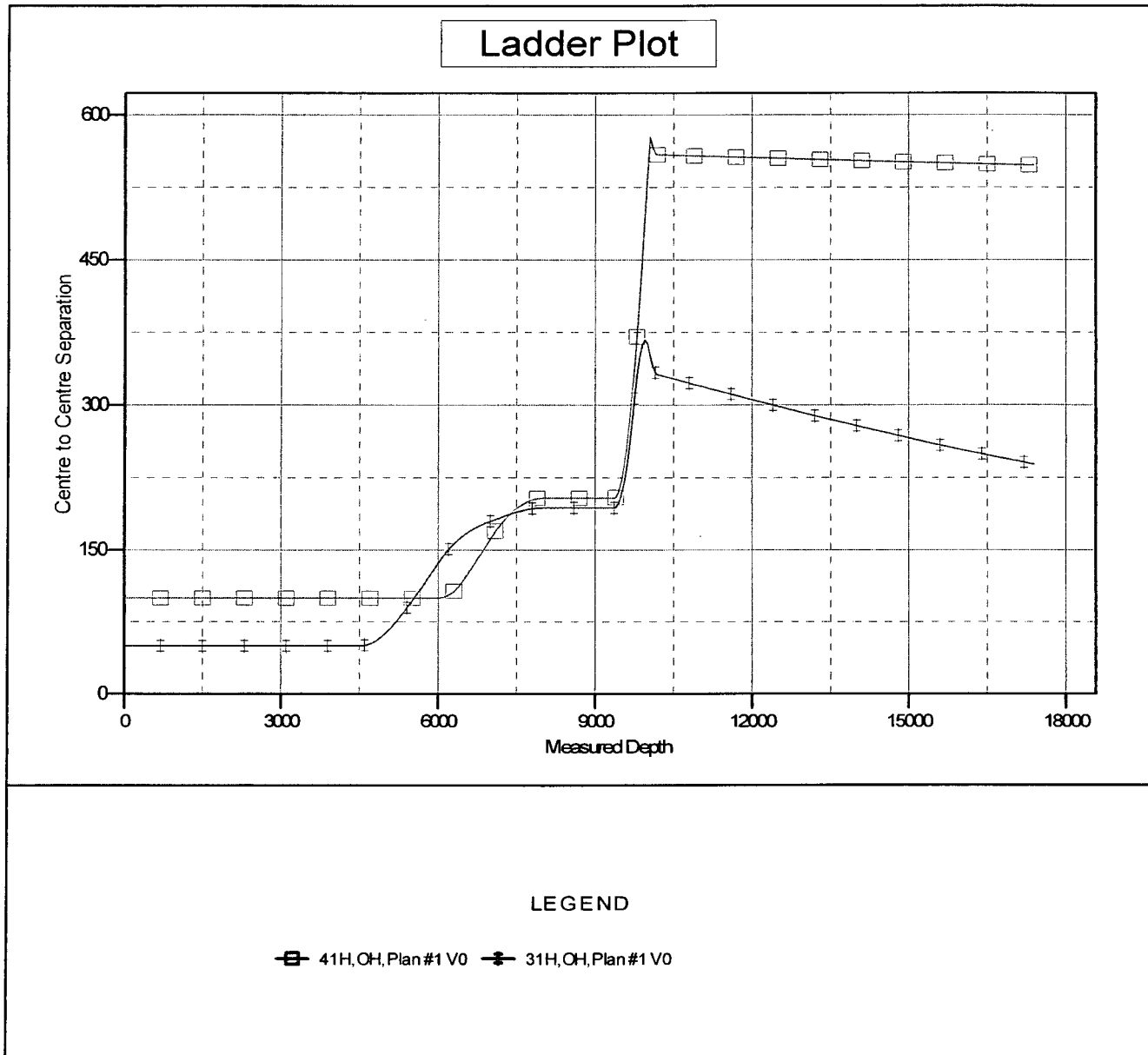
LEAM Drilling Systems LLC

Anticollision Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 21H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3354.8' GL + 25' RKB @ 3379.80usft
Reference Site:	Green Wave 20-17 Fed	MD Reference:	3354.8' GL + 25' RKB @ 3379.80usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	21H	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 3354.8' GL + 25' RKB @ 3379.80usft
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: 21H
Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Grid Convergence at Surface is: 0.44°



LEAM Drilling Systems LLC

Anticollision Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 21H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3354.8' GL + 25' RKB @ 3379.80usft
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