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DEVON ENERGY

Lea County, NM (NAD-83)

Bell Lake 24 Fed

5H

OH

Plan #1

Anticollision Report

16 September, 2015

MAY 03 2016

LEAM Drilling Systems LLC

Anticollision Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well: 5H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3580.6' GL + 25' RKB @ 3605.60usft
Reference Site:	Bell Lake 24 Fed	MD Reference:	3580.6' GL + 25' RKB @ 3605.60usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	5H	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 9/16/2015		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	14,170.93	Plan #1 (OH)	LEAM MWD-ADJ	MWD - Standard

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Bell Lake 24 Fed						
9H - OH - Plan #1	5,100.00	5,100.00	50.04	27.39	2.210	CC, ES, SF

Offset Design: Bell Lake 24 Fed - 9H - 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					
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)	(usft)	
0.00	0.00	0.00	0.00	0.00	0.00	179.77	-50.04	0.20	50.04			
100.00	100.00	100.00	100.00	0.08	0.08	179.77	-50.04	0.20	50.04	49.87	0.17	295.858
200.00	200.00	200.00	200.00	0.31	0.31	179.77	-50.04	0.20	50.04	49.42	0.62	80.884
300.00	300.00	300.00	300.00	0.53	0.53	179.77	-50.04	0.20	50.04	48.97	1.07	46.845
400.00	400.00	400.00	400.00	0.76	0.76	179.77	-50.04	0.20	50.04	48.52	1.52	32.970
500.00	500.00	500.00	500.00	0.98	0.98	179.77	-50.04	0.20	50.04	48.07	1.97	25.437
600.00	600.00	600.00	600.00	1.21	1.21	179.77	-50.04	0.20	50.04	47.62	2.42	20.705
700.00	700.00	700.00	700.00	1.43	1.43	179.77	-50.04	0.20	50.04	47.17	2.87	17.458
800.00	800.00	800.00	800.00	1.66	1.66	179.77	-50.04	0.20	50.04	46.72	3.32	15.091
900.00	900.00	900.00	900.00	1.88	1.88	179.77	-50.04	0.20	50.04	46.28	3.77	13.290
1,000.00	1,000.00	1,000.00	1,000.00	2.11	2.11	179.77	-50.04	0.20	50.04	45.83	4.21	11.872
1,100.00	1,100.00	1,100.00	1,100.00	2.33	2.33	179.77	-50.04	0.20	50.04	45.38	4.66	10.728
1,200.00	1,200.00	1,200.00	1,200.00	2.56	2.56	179.77	-50.04	0.20	50.04	44.93	5.11	9.785
1,300.00	1,300.00	1,300.00	1,300.00	2.78	2.78	179.77	-50.04	0.20	50.04	44.48	5.56	8.994
1,400.00	1,400.00	1,400.00	1,400.00	3.01	3.01	179.77	-50.04	0.20	50.04	44.03	6.01	8.322
1,500.00	1,500.00	1,500.00	1,500.00	3.23	3.23	179.77	-50.04	0.20	50.04	43.58	6.46	7.743
1,600.00	1,600.00	1,600.00	1,600.00	3.46	3.46	179.77	-50.04	0.20	50.04	43.13	6.91	7.240
1,700.00	1,700.00	1,700.00	1,700.00	3.68	3.68	179.77	-50.04	0.20	50.04	42.68	7.36	6.797
1,800.00	1,800.00	1,800.00	1,800.00	3.91	3.91	179.77	-50.04	0.20	50.04	42.23	7.81	6.406
1,900.00	1,900.00	1,900.00	1,900.00	4.13	4.13	179.77	-50.04	0.20	50.04	41.78	8.26	6.058
2,000.00	2,000.00	2,000.00	2,000.00	4.35	4.36	179.77	-50.04	0.20	50.04	41.33	8.71	5.745
2,100.00	2,100.00	2,100.00	2,100.00	4.58	4.58	179.77	-50.04	0.20	50.04	40.88	9.16	5.463
2,200.00	2,200.00	2,200.00	2,200.00	4.80	4.80	179.77	-50.04	0.20	50.04	40.43	9.61	5.207
2,300.00	2,300.00	2,300.00	2,300.00	5.03	5.03	179.77	-50.04	0.20	50.04	39.98	10.06	4.975
2,400.00	2,400.00	2,400.00	2,400.00	5.25	5.25	179.77	-50.04	0.20	50.04	39.53	10.51	4.762
2,500.00	2,500.00	2,500.00	2,500.00	5.48	5.48	179.77	-50.04	0.20	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 5H
Project:	Lea County NM (NAD-83)	TVD Reference:	3580.6' GL + 25' RKB @ 3605.60usft
Reference Site:	Bell Lake 24 Fed	MD Reference:	3580.6' GL + 25' RKB @ 3605.60usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	5H	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: Bell Lake 24 Fed - 9H - 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		Minimum Separation		Warning						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Footface (")	Offset Wellbore Centre N-S (usft)	Offset Wellbore Centre E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
2,800.00	2,800.00	2,800.00	2,800.00	5.70	5.70	179.77	-50.04	0.20	50.04	38.83	11.41	4.387			
2,700.00	2,700.00	2,700.00	2,700.00	5.93	5.93	179.77	-50.04	0.20	50.04	38.18	11.86	4.220			
2,800.00	2,800.00	2,800.00	2,800.00	6.15	6.15	179.77	-50.04	0.20	50.04	37.73	12.31	4.066			
2,900.00	2,900.00	2,900.00	2,900.00	6.38	6.38	179.77	-50.04	0.20	50.04	37.28	12.76	3.923			
3,000.00	3,000.00	3,000.00	3,000.00	6.60	6.60	179.77	-50.04	0.20	50.04	36.83	13.21	3.789			
3,100.00	3,100.00	3,100.00	3,100.00	6.83	6.83	179.77	-50.04	0.20	50.04	36.39	13.66	3.665			
3,200.00	3,200.00	3,200.00	3,200.00	7.05	7.05	179.77	-50.04	0.20	50.04	35.94	14.10	3.548			
3,300.00	3,300.00	3,300.00	3,300.00	7.28	7.28	179.77	-50.04	0.20	50.04	35.49	14.55	3.438			
3,400.00	3,400.00	3,400.00	3,400.00	7.50	7.50	179.77	-50.04	0.20	50.04	35.04	15.00	3.335			
3,500.00	3,500.00	3,500.00	3,500.00	7.73	7.73	179.77	-50.04	0.20	50.04	34.59	15.45	3.238			
3,600.00	3,600.00	3,600.00	3,600.00	7.95	7.95	179.77	-50.04	0.20	50.04	34.14	15.90	3.147			
3,700.00	3,700.00	3,700.00	3,700.00	8.18	8.18	179.77	-50.04	0.20	50.04	33.69	16.35	3.060			
3,800.00	3,800.00	3,800.00	3,800.00	8.40	8.40	179.77	-50.04	0.20	50.04	33.24	16.80	2.978			
3,900.00	3,900.00	3,900.00	3,900.00	8.63	8.63	179.77	-50.04	0.20	50.04	32.79	17.25	2.901			
4,000.00	4,000.00	4,000.00	4,000.00	8.85	8.85	179.77	-50.04	0.20	50.04	32.34	17.70	2.827			
4,100.00	4,100.00	4,100.00	4,100.00	9.07	9.08	179.77	-50.04	0.20	50.04	31.89	18.15	2.757			
4,200.00	4,200.00	4,200.00	4,200.00	9.30	9.30	179.77	-50.04	0.20	50.04	31.44	18.60	2.690			
4,300.00	4,300.00	4,300.00	4,300.00	9.52	9.53	179.77	-50.04	0.20	50.04	30.99	19.05	2.627			
4,400.00	4,400.00	4,400.00	4,400.00	9.75	9.75	179.77	-50.04	0.20	50.04	30.54	19.50	2.568			
4,500.00	4,500.00	4,500.00	4,500.00	9.97	9.97	179.77	-50.04	0.20	50.04	30.09	19.95	2.508			
4,600.00	4,600.00	4,600.00	4,600.00	10.20	10.20	179.77	-50.04	0.20	50.04	29.64	20.40	2.453			
4,700.00	4,700.00	4,700.00	4,700.00	10.42	10.42	179.77	-50.04	0.20	50.04	29.19	20.85	2.400			
4,800.00	4,800.00	4,800.00	4,800.00	10.65	10.65	179.77	-50.04	0.20	50.04	28.74	21.30	2.350			
4,900.00	4,900.00	4,900.00	4,900.00	10.87	10.87	179.77	-50.04	0.20	50.04	28.29	21.75	2.301			
5,000.00	5,000.00	5,000.00	5,000.00	11.10	11.10	179.77	-50.04	0.20	50.04	27.84	22.20	2.254			
5,066.67	5,066.67	5,066.67	5,066.67	11.25	11.25	179.77	-50.04	0.20	50.04	27.54	22.50	2.224			
5,100.00	5,100.00	5,100.00	5,100.00	11.32	11.32	179.77	-50.04	0.20	50.04	27.39	22.65	2.210 CC, ES, SF			
5,200.00	5,200.00	5,198.95	5,198.94	11.55	11.52	178.90	-51.06	0.98	51.08	28.01	23.07	2.214			
5,300.00	5,300.00	5,297.76	5,297.67	11.77	11.69	176.49	-54.10	3.32	54.25	30.79	23.46	2.312			
5,400.00	5,400.00	5,396.31	5,396.01	12.00	11.87	173.07	-59.15	7.19	59.72	35.86	23.86	2.503			
5,500.00	5,500.00	5,495.43	5,494.77	12.22	12.05	169.39	-65.87	12.34	67.22	42.95	24.26	2.770			
5,600.00	5,600.00	5,595.05	5,594.01	12.45	12.23	166.38	-72.75	17.63	75.10	50.43	24.67	3.044			
5,700.00	5,700.00	5,694.67	5,693.25	12.67	12.41	163.95	-79.64	22.91	83.15	58.08	25.07	3.316			
5,800.00	5,800.00	5,794.29	5,792.49	12.90	12.60	161.95	-86.53	28.20	91.32	65.84	25.48	3.584			
5,900.00	5,900.00	5,893.91	5,891.73	13.12	12.80	160.28	-93.42	33.49	99.58	73.70	25.88	3.847			
6,000.00	6,000.00	5,993.53	5,990.97	13.35	12.99	158.87	-100.31	38.77	107.92	81.62	26.29	4.104			
6,100.00	6,100.00	6,093.15	6,090.21	13.57	13.19	157.66	-107.19	44.06	116.31	89.61	26.70	4.356			
6,200.00	6,200.00	6,192.77	6,189.45	13.80	13.39	156.61	-114.08	49.34	124.74	97.63	27.11	4.601			
6,300.00	6,300.00	6,292.39	6,288.69	14.02	13.59	155.70	-120.97	54.63	133.21	105.69	27.53	4.840			
6,400.00	6,400.00	6,392.01	6,387.93	14.24	13.80	154.89	-127.86	59.91	141.71	113.77	27.94	5.072			
6,500.00	6,500.00	6,491.62	6,487.17	14.47	14.01	154.18	-134.75	65.20	150.24	121.88	28.36	5.298			
6,600.00	6,600.00	6,591.24	6,586.42	14.69	14.22	153.54	-141.64	70.48	158.79	130.01	28.77	5.519			
6,700.00	6,700.00	6,690.86	6,685.66	14.92	14.43	152.97	-148.52	75.77	167.35	138.16	29.19	5.733			
6,800.00	6,800.00	6,790.48	6,784.90	15.14	14.65	152.46	-155.41	81.05	175.93	146.32	29.61	5.942			
6,900.00	6,900.00	6,890.10	6,884.14	15.37	14.87	151.99	-162.30	86.34	184.52	154.49	30.03	6.145			
7,000.00	7,000.00	6,989.72	6,983.38	15.59	15.09	151.56	-169.19	91.63	193.12	162.67	30.45	6.342			
7,100.00	7,100.00	7,089.34	7,082.62	15.82	15.31	151.17	-176.08	96.91	201.73	170.86	30.87	6.535			
7,200.00	7,200.00	7,188.96	7,181.86	16.04	15.53	150.81	-182.96	102.20	210.36	179.06	31.30	6.722			
7,300.00	7,300.00	7,288.58	7,281.10	16.27	15.75	150.48	-189.85	107.48	218.98	187.26	31.72	6.904			
7,400.00	7,400.00	7,388.20	7,380.34	16.49	15.98	150.18	-196.74	112.77	227.62	195.47	32.14	7.081			
7,500.00	7,500.00	7,487.82	7,479.58	16.72	16.21	149.90	-203.63	118.05	236.26	203.69	32.57	7.254			
7,600.00	7,600.00	7,587.44	7,578.82	16.94	16.44	149.63	-210.52	123.34	244.91	211.91	33.00	7.422			

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LEAM Drilling Systems LLC

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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: Bell Lake 24 Fed - 9H - OH - Plan #1													Offset Site Error:
Survey Program: O-LEAM MWD-ADJ													Offset Well Error:
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	
7,700.00	7,700.00	7,687.06	7,678.06	17.17	16.67	149.39	-217.41	128.62	253.56	220.13	33.43	7.586	
7,800.00	7,800.00	7,786.68	7,777.30	17.39	16.90	149.16	-224.29	133.91	262.21	228.36	33.85	7.745	
7,900.00	7,900.00	7,886.30	7,876.54	17.62	17.13	148.95	-231.18	139.20	270.87	236.59	34.28	7.901	
8,000.00	8,000.00	7,990.04	7,979.92	17.84	17.38	148.75	-238.02	144.44	279.15	244.42	34.72	8.039	
8,100.00	8,100.00	8,097.78	8,087.48	18.07	17.62	148.61	-243.00	148.27	284.94	249.76	35.18	8.100	
8,200.00	8,200.00	8,205.79	8,195.44	18.29	17.85	148.54	-245.58	150.24	287.93	252.30	35.63	8.080	
8,300.00	8,300.00	8,310.36	8,300.00	18.52	18.06	148.53	-245.97	150.54	288.38	252.30	36.07	7.994	
8,400.00	8,400.00	8,410.36	8,400.00	18.74	18.27	148.53	-245.97	150.54	288.38	251.86	36.52	7.897	
8,500.00	8,500.00	8,510.36	8,500.00	18.96	18.48	148.53	-245.97	150.54	288.38	251.42	36.96	7.803	
8,600.00	8,600.00	8,610.36	8,600.00	19.19	18.69	148.53	-245.97	150.54	288.38	250.98	37.40	7.711	
8,700.00	8,700.00	8,710.36	8,700.00	19.41	18.91	148.53	-245.97	150.54	288.38	250.54	37.84	7.621	
8,800.00	8,800.00	8,810.36	8,800.00	19.64	19.12	148.53	-245.97	150.54	288.38	250.09	38.28	7.532	
8,900.00	8,900.00	8,910.36	8,900.00	19.86	19.33	148.53	-245.97	150.54	288.38	249.65	38.73	7.446	
9,000.00	9,000.00	9,010.36	9,000.00	20.09	19.54	148.53	-245.97	150.54	288.38	249.21	39.17	7.362	
9,100.00	9,100.00	9,110.36	9,100.00	20.31	19.76	148.53	-245.97	150.54	288.38	248.76	39.61	7.280	
9,200.00	9,200.00	9,210.36	9,200.00	20.54	19.97	148.53	-245.97	150.54	288.38	248.32	40.06	7.199	
9,237.04	9,237.04	9,247.40	9,237.04	20.62	20.05	148.53	-245.97	150.54	288.38	248.16	40.22	7.170	
9,250.00	9,250.00	9,260.36	9,250.00	20.65	20.08	139.16	-245.97	150.54	288.49	248.21	40.28	7.162	
9,300.00	9,299.87	9,310.23	9,299.87	20.76	20.18	139.43	-245.97	150.54	291.00	250.61	40.39	7.205	
9,350.00	9,349.27	9,359.63	9,349.27	20.88	20.29	140.00	-245.97	150.54	296.86	256.51	40.36	7.356	
9,400.00	9,397.81	9,408.17	9,397.81	20.99	20.39	140.83	-245.97	150.54	306.16	265.98	40.18	7.620	
9,450.00	9,445.13	9,455.49	9,445.13	21.10	20.50	141.80	-245.97	150.54	319.00	279.15	39.85	8.004	
9,500.00	9,490.87	9,501.22	9,490.87	21.20	20.59	142.83	-245.97	150.54	335.48	296.10	39.38	8.520	
9,550.00	9,534.67	9,588.83	9,578.24	21.30	20.77	145.77	-240.85	150.52	353.61	314.90	38.71	9.136	
9,600.00	9,576.21	9,701.64	9,687.85	21.42	20.95	149.13	-214.92	150.40	367.87	330.05	37.82	9.726	
9,650.00	9,615.16	9,825.98	9,800.16	21.55	21.10	152.19	-162.16	150.17	376.82	340.06	36.76	10.252	
9,700.00	9,651.24	9,957.79	9,903.84	21.70	21.23	154.88	-81.24	149.80	379.40	343.87	35.53	10.677	
9,750.00	9,684.17	10,090.57	9,986.85	21.86	21.33	157.18	22.01	149.34	375.13	340.92	34.20	10.967	
9,800.00	9,713.69	10,217.49	10,042.01	22.05	21.72	159.11	136.04	148.83	364.22	331.40	32.82	11.096	
9,850.00	9,739.59	10,333.75	10,069.41	22.26	22.25	160.74	248.82	148.33	347.51	316.05	31.46	11.048	
9,900.00	9,761.66	10,424.35	10,074.74	22.50	22.76	162.07	339.17	147.92	326.34	296.19	30.15	10.822	
9,950.00	9,779.74	10,470.25	10,074.63	22.76	23.06	163.18	385.07	147.72	306.71	277.77	28.94	10.598	
10,000.00	9,793.89	10,517.54	10,074.53	23.05	23.39	164.44	432.36	147.51	291.01	263.12	27.89	10.434	
10,050.00	9,803.40	10,565.86	10,074.42	23.36	23.76	165.87	480.67	147.29	279.43	252.36	27.07	10.322	
10,100.00	9,808.80	10,614.84	10,074.30	23.71	24.15	167.46	529.65	147.07	272.14	245.60	26.54	10.253	
10,135.84	9,810.00	10,649.94	10,074.22	23.96	24.45	168.68	564.76	146.92	269.84	243.26	26.38	10.222	
10,200.00	9,810.15	10,713.48	10,074.08	24.44	25.02	170.76	628.30	146.63	267.49	241.15	26.34	10.156	
10,300.00	9,810.40	10,812.53	10,073.85	25.25	26.00	173.62	727.34	146.19	265.13	238.62	26.50	10.004	
10,400.00	9,810.65	10,911.89	10,073.62	26.16	27.06	175.99	826.71	145.75	263.63	236.72	26.91	9.797	
10,500.00	9,810.89	11,011.52	10,073.40	27.15	28.21	177.84	926.33	145.30	262.69	235.19	27.51	9.550	
10,600.00	9,811.14	11,111.34	10,073.17	28.23	29.42	179.13	1,026.15	144.85	262.06	233.82	28.24	9.280	
10,700.00	9,811.39	11,211.28	10,072.94	29.37	30.70	179.86	1,126.09	144.41	261.55	232.49	29.06	9.001	
10,778.18	9,811.58	11,289.46	10,072.76	30.31	31.73	-179.97	1,204.26	144.06	261.18	231.44	29.73	8.784	
10,800.00	9,811.64	11,311.27	10,072.71	30.58	32.03	-179.97	1,226.08	143.96	261.07	231.15	29.93	8.724	
10,900.00	9,811.88	11,411.27	10,072.48	31.81	33.40	-179.97	1,326.08	143.51	260.60	229.76	30.84	8.450	
11,000.00	9,812.13	11,511.27	10,072.25	33.10	34.82	-179.97	1,426.08	143.07	260.12	228.33	31.79	8.182	
11,100.00	9,812.38	11,611.27	10,072.02	34.44	36.28	-179.97	1,526.07	142.62	259.64	226.86	32.78	7.920	
11,200.00	9,812.63	11,711.27	10,071.80	35.82	37.77	-179.98	1,626.07	142.17	259.17	225.36	33.81	7.665	
11,300.00	9,812.88	11,811.27	10,071.57	37.24	39.28	-179.98	1,726.07	141.73	258.69	223.82	34.87	7.419	
11,400.00	9,813.13	11,911.27	10,071.34	38.69	40.83	-179.98	1,826.07	141.28	258.21	222.26	35.96	7.181	
11,500.00	9,813.37	12,011.26	10,071.11	40.18	42.39	-179.98	1,926.06	140.83	257.74	220.67	37.07	6.953	
11,600.00	9,813.62	12,111.26	10,070.88	41.69	43.98	-179.98	2,026.06	140.39	257.26	219.05	38.21	6.733	

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 5H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3580.6' GL + 25' RKB @ 3605.60usft
Reference Site:	Bell Lake 24 Fed	MD Reference:	3580.6' GL + 25' RKB @ 3605.60usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	5H	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: Bell Lake 24 Fed - 9H - 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		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	
11,700.00	9,813.87	12,211.26	10,070.65	43.23	45.58	-179.98	2,126.06	139.94	256.78	217.42	39.37	6.523	
11,800.00	9,814.12	12,311.26	10,070.42	44.78	47.20	-179.98	2,226.06	139.49	256.31	215.76	40.54	6.322	
11,900.00	9,814.37	12,411.26	10,070.19	46.36	48.83	-179.98	2,326.05	139.05	255.83	214.09	41.74	6.129	
12,000.00	9,814.61	12,511.26	10,069.97	47.96	50.48	-179.98	2,426.05	138.60	255.35	212.40	42.96	5.944	
12,100.00	9,814.86	12,611.26	10,069.74	49.57	52.14	-179.98	2,526.05	138.15	254.88	210.89	44.19	5.768	
12,200.00	9,815.11	12,711.26	10,069.51	51.19	53.81	-179.98	2,626.05	137.71	254.40	209.97	45.43	5.600	
12,300.00	9,815.36	12,811.26	10,069.28	52.83	55.49	-179.98	2,726.04	137.26	253.92	207.23	46.69	5.439	
12,400.00	9,815.61	12,911.25	10,069.05	54.49	57.18	-179.99	2,826.04	136.81	253.44	205.49	47.96	5.285	
12,500.00	9,815.85	13,011.25	10,068.82	56.15	58.88	-179.99	2,926.04	136.36	252.97	203.73	49.24	5.138	
12,600.00	9,816.10	13,111.25	10,068.59	57.82	60.59	-179.99	3,026.04	135.92	252.49	201.97	50.53	4.997	
12,700.00	9,816.35	13,211.25	10,068.36	59.50	62.30	-179.99	3,126.03	135.47	252.01	200.19	51.82	4.863	
12,800.00	9,816.60	13,311.25	10,068.14	61.19	64.02	-179.99	3,226.03	135.02	251.54	198.40	53.13	4.734	
12,900.00	9,816.85	13,411.25	10,067.91	62.89	65.74	-179.99	3,326.03	134.58	251.06	196.61	54.45	4.611	
13,000.00	9,817.09	13,511.25	10,067.68	64.59	67.47	-179.99	3,426.03	134.13	250.58	194.81	55.77	4.493	
13,100.00	9,817.34	13,611.25	10,067.45	66.31	69.21	-179.99	3,526.03	133.68	250.11	193.00	57.10	4.380	
13,200.00	9,817.59	13,711.25	10,067.22	68.02	70.95	-179.99	3,626.02	133.24	249.63	191.19	58.44	4.272	
13,300.00	9,817.84	13,811.24	10,066.99	69.75	72.69	-179.99	3,726.02	132.79	249.15	189.37	59.78	4.168	
13,400.00	9,818.09	13,911.24	10,066.76	71.48	74.44	-179.99	3,826.02	132.34	248.68	187.54	61.13	4.068	
13,500.00	9,818.34	14,011.24	10,066.53	73.21	76.20	-179.99	3,926.02	131.90	248.20	185.71	62.49	3.972	
13,600.00	9,818.58	14,111.24	10,066.31	74.95	77.95	-180.00	4,026.01	131.45	247.72	183.88	63.85	3.880	
13,700.00	9,818.83	14,211.24	10,066.08	76.69	79.71	-180.00	4,126.01	131.00	247.25	182.03	65.21	3.791	
13,800.00	9,819.08	14,311.24	10,065.85	78.43	81.47	-180.00	4,226.01	130.56	246.77	180.19	66.58	3.706	
13,900.00	9,819.33	14,411.24	10,065.62	80.18	83.24	-180.00	4,326.01	130.11	246.29	178.34	67.95	3.625	
14,000.00	9,819.58	14,511.24	10,065.39	81.94	85.01	-180.00	4,426.00	129.66	245.81	176.49	69.33	3.546	
14,100.00	9,819.82	14,611.24	10,065.16	83.69	86.78	-180.00	4,526.00	129.21	245.34	174.63	70.71	3.470	
14,170.93	9,820.00	14,662.11	10,065.00	84.94	88.03	180.00	4,596.87	128.90	245.00	173.30	71.70	3.417	

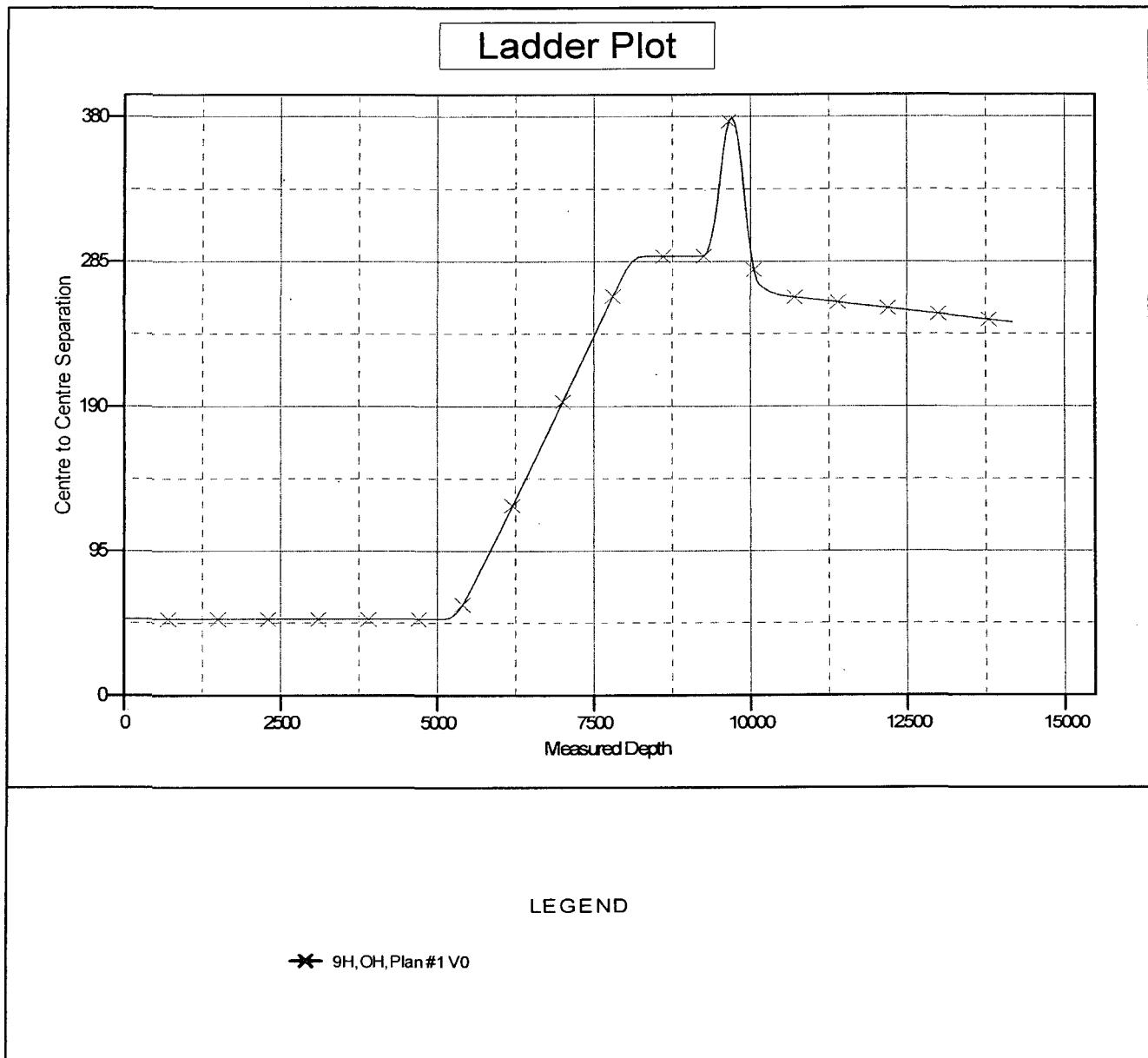
LEAM Drilling Systems LLC

Anticollision Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well: 5H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3580.6' GL + 25' RKB @ 3605.60usft
Reference Site:	Bell Lake 24 Fed.	MD Reference:	3580.6' GL + 25' RKB @ 3605.60usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	5H	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 3580.6' GL + 25' RKB @ 3605.60usft
 Offset Depths are relative to Offset Datum
 Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: 5H
 Coordinate System is US State Plane 1983, New Mexico Eastern Zone
 Grid Convergence at Surface is: 0.37°



LEAM Drilling Systems LLC

Anticollision Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 5H
Project:	Lea County, NM, (NAD-83)	TVD Reference:	3580.6' GL + 25' RKB @ 3605.60usft
Reference Site:	Bell Lake 24' Fed	MD Reference:	3580.6' GL + 25' RKB @ 3605.60usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	5H	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 3580.6' GL + 25' RKB @ 3605.60usft

Offset Depths are relative to Offset Datum

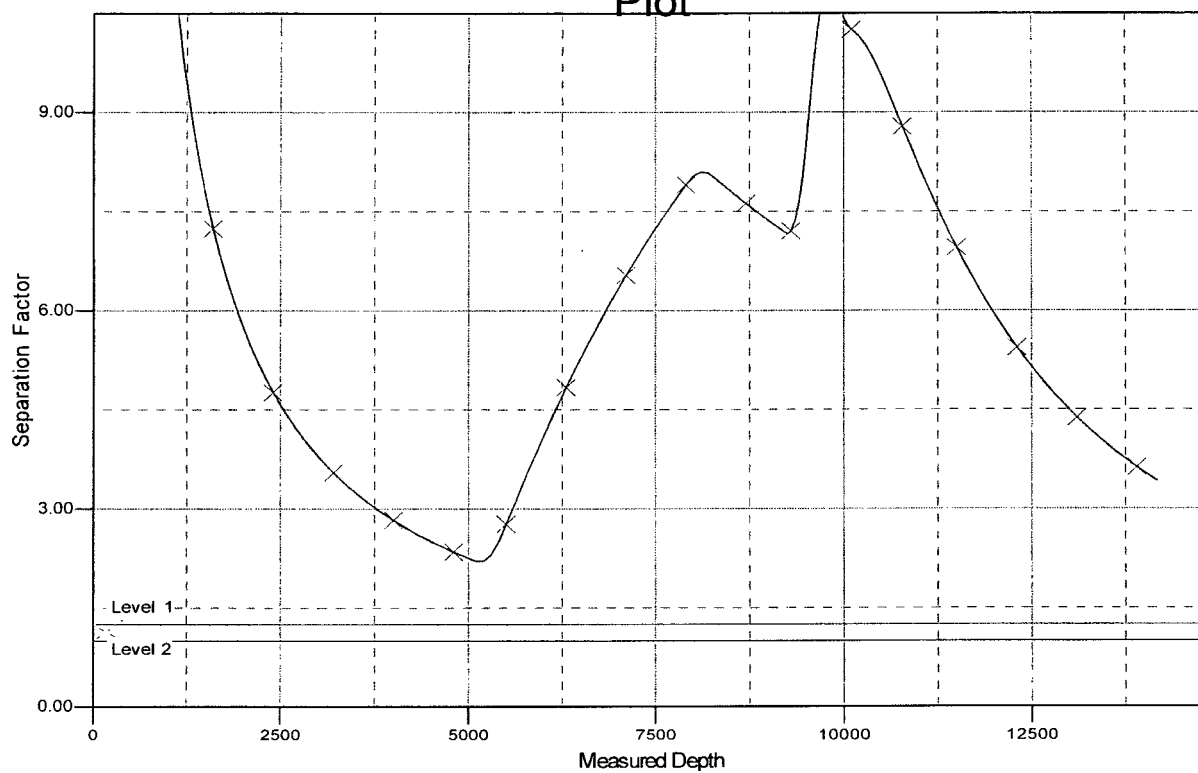
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: 5H

Coordinate System is US State Plane 1983, New Mexico Eastern Zone

Grid Convergence at Surface is: 0.37°

Separation Factor Plot



LEGEND

✕ 9H, OH, Plan #1 V0