

Devon Energy

Lea County, NM (NAD-83)

Thistle Unit

102H

OH

Plan #1

Anticollision Report

12 January, 2017

LEAM Drilling Systems LLC

Anticollision Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well 102H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3637.8' GE + 23.5' KB @ 3664.30usft (Original Well Elev)
Reference Site:	Thistle Unit	MD Reference:	3637.8' GE + 23.5' KB @ 3664.30usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	102H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Multi 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
Depth Range:	Unlimited
Results Limited by:	Maximum center-center distance of 9,999.98 usft
Warning Levels Evaluated at:	2.00 Sigma
Error Model:	ISCWSA
Scan Method:	Closest Approach 3D
Error Surface:	Elliptical Conic
Casing Method:	Not applied

Survey Tool Program	Date	1/12/2017
From (usft)	To (usft)	Survey (Wellbore)
0.00	24,810.04	Plan #1 (OH)
		Tool Name
		LEAM MWD+HDGM
		Description
		MWD+HDGM

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						
Thistle Unit						
117H - OH - Plan #1	2,300.00	2,297.00	30.00	19.95	2.984	CC, ES
117H - OH - Plan #1	17,204.54	17,401.09	716.82	460.37	2.795	SF
138H - OH - Plan #1	3,245.92	3,245.42	29.93	15.63	2.093	CC
138H - OH - Plan #1	3,400.00	3,399.43	30.11	15.19	2.018	ES
138H - OH - Plan #1	3,500.00	3,499.24	30.89	15.58	2.017	SF
Thistle Unit (Offsets)						
50H - OH - OH	9,075.70	9,073.32	138.08	115.90	6.224	CC
50H - OH - OH	9,100.00	9,097.20	138.12	115.87	6.208	ES
50H - OH - OH	9,200.00	9,196.76	138.84	116.36	6.177	SF
58H - OH - OH	20,080.26	9,891.90	756.21	563.50	3.924	CC, ES
58H - OH - OH	20,100.00	9,891.90	756.47	563.51	3.920	SF
71H - OH - OH	19,590.89	9,761.13	25.94	-160.70	0.139	Level 1, CC, ES, SF

Offset Design												
Thistle Unit - 117H - OH - Plan #1												
Survey Program: 0-LEAM MWD+HDGM												
Reference Offset Semi Major Axis												
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)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
0.00	0.00	0.00	0.00	0.00	0.00	-90.31	-0.16	-30.00	30.15			
100.00	100.00	97.00	97.00	0.09	0.08	-90.31	-0.16	-30.00	30.00	29.83	0.17	177.133
200.00	200.00	197.00	197.00	0.31	0.30	-90.31	-0.16	-30.00	30.00	29.39	0.61	48.802
300.00	300.00	297.00	297.00	0.54	0.53	-90.31	-0.16	-30.00	30.00	28.94	1.06	28.189
400.00	400.00	397.00	397.00	0.76	0.75	-90.31	-0.16	-30.00	30.00	28.49	1.51	19.818
500.00	500.00	497.00	497.00	0.99	0.98	-90.31	-0.16	-30.00	30.00	28.04	1.96	15.280
600.00	600.00	597.00	597.00	1.21	1.20	-90.31	-0.16	-30.00	30.00	27.59	2.41	12.434
700.00	700.00	697.00	697.00	1.43	1.43	-90.31	-0.16	-30.00	30.00	27.14	2.86	10.481
800.00	800.00	797.00	797.00	1.66	1.65	-90.31	-0.16	-30.00	30.00	26.69	3.31	9.058
900.00	900.00	897.00	897.00	1.88	1.88	-90.31	-0.16	-30.00	30.00	26.24	3.76	7.976
1,000.00	1,000.00	997.00	997.00	2.11	2.10	-90.31	-0.16	-30.00	30.00	25.79	4.21	7.124
1,100.00	1,100.00	1,097.00	1,097.00	2.33	2.33	-90.31	-0.16	-30.00	30.00	25.34	4.66	6.437
1,200.00	1,200.00	1,197.00	1,197.00	2.56	2.55	-90.31	-0.16	-30.00	30.00	24.89	5.11	5.871

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

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Reference Well:	102H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Multi User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Thistle Unit - 117H - OH - Plan #1													Offset Site Error: 0.00 usft
Survey Program: O-LEAM MWD+HDGM													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	
1,300.00	1,300.00	1,297.00	1,297.00	2.78	2.78	-90.31	-0.16	-30.00	30.00	24.44	5.56	5.396	
1,400.00	1,400.00	1,397.00	1,397.00	3.01	3.00	-90.31	-0.16	-30.00	30.00	23.99	6.01	4.992	
1,500.00	1,500.00	1,497.00	1,497.00	3.23	3.23	-90.31	-0.16	-30.00	30.00	23.54	6.46	4.645	
1,600.00	1,600.00	1,597.00	1,597.00	3.46	3.45	-90.31	-0.16	-30.00	30.00	23.09	6.91	4.343	
1,700.00	1,700.00	1,697.00	1,697.00	3.68	3.68	-90.33	-0.16	-30.00	30.00	22.64	7.36	4.077	
1,800.00	1,800.00	1,797.00	1,797.00	3.91	3.90	-90.31	-0.16	-30.00	30.00	22.19	7.81	3.843	
1,900.00	1,900.00	1,897.00	1,897.00	4.13	4.13	-90.31	-0.16	-30.00	30.00	21.74	8.26	3.633	
2,000.00	2,000.00	1,997.00	1,997.00	4.36	4.35	-90.31	-0.16	-30.00	30.00	21.29	8.71	3.446	
2,100.00	2,100.00	2,097.00	2,097.00	4.58	4.57	-90.31	-0.16	-30.00	30.00	20.84	9.16	3.277	
2,200.00	2,200.00	2,197.00	2,197.00	4.81	4.80	-90.31	-0.16	-30.00	30.00	20.40	9.61	3.123	
2,300.00	2,300.00	2,297.00	2,297.00	5.03	5.02	-90.31	-0.16	-30.00	30.00	19.95	10.05	2.984 CC, ES	
2,400.00	2,400.00	2,396.50	2,396.49	5.26	5.23	-90.65	-0.35	-30.79	30.80	20.31	10.48	2.937	
2,500.00	2,500.00	2,495.92	2,495.89	5.48	5.42	-91.63	-0.95	-33.26	33.29	22.39	10.90	3.055	
2,600.00	2,600.00	2,595.23	2,595.10	5.71	5.62	-92.98	-1.95	-37.39	37.49	26.18	11.31	3.316	
2,700.00	2,700.00	2,694.36	2,694.05	5.93	5.82	-94.43	-3.35	-43.19	43.42	31.70	11.71	3.706	
2,800.00	2,800.00	2,793.26	2,792.65	6.15	6.02	-95.81	-5.15	-50.62	51.07	38.95	12.12	4.213	
2,900.00	2,900.00	2,891.86	2,890.81	6.38	6.23	-97.01	-7.34	-59.69	60.45	47.93	12.53	4.827	
3,000.00	3,000.00	2,991.28	2,989.70	6.60	6.45	-97.97	-9.76	-69.71	70.77	57.82	12.95	5.465	
3,100.00	3,100.00	3,090.74	3,088.62	6.83	6.67	-98.69	-12.19	-79.73	81.10	67.72	13.38	6.062	
3,200.00	3,200.00	3,190.20	3,187.54	7.05	6.89	-99.25	-14.61	-89.76	91.43	77.63	13.81	6.622	
3,300.00	3,300.00	3,289.67	3,286.47	7.28	7.12	-99.69	-17.04	-99.79	101.78	87.54	14.24	7.148	
3,400.00	3,400.00	3,389.13	3,385.39	7.50	7.36	-100.05	-19.46	-109.81	112.13	97.46	14.67	7.643	
3,500.00	3,500.00	3,488.59	3,484.32	7.73	7.60	-100.35	-21.88	-119.84	122.48	107.38	15.11	8.108	
3,600.00	3,600.00	3,588.05	3,583.24	7.95	7.84	-100.60	-24.31	-129.87	132.84	117.30	15.54	8.547	
3,700.00	3,700.00	3,687.51	3,682.17	8.18	8.08	-100.82	-26.73	-139.89	143.20	127.22	15.98	8.961	
3,800.00	3,800.00	3,786.97	3,781.09	8.40	8.32	-101.01	-29.16	-149.92	153.56	137.14	16.42	9.353	
3,900.00	3,900.00	3,886.43	3,880.01	8.63	8.57	-101.17	-31.58	-159.95	163.92	147.06	16.86	9.723	
4,000.00	4,000.00	3,985.89	3,978.94	8.85	8.82	-101.31	-34.01	-169.97	174.28	156.98	17.30	10.075	
4,100.00	4,100.00	4,085.35	4,077.86	9.08	9.07	-101.44	-36.43	-180.00	184.65	166.90	17.74	10.408	
4,200.00	4,200.00	4,184.81	4,176.79	9.30	9.32	-101.56	-38.86	-190.03	195.01	176.83	18.18	10.725	
4,300.00	4,300.00	4,284.27	4,275.71	9.53	9.58	-101.66	-41.28	-200.05	205.38	186.75	18.63	11.026	
4,400.00	4,400.00	4,383.73	4,374.64	9.75	9.83	-101.75	-43.71	-210.08	215.74	196.67	19.07	11.312	
4,500.00	4,500.00	4,483.19	4,473.56	9.98	10.09	-101.84	-46.13	-220.11	226.11	206.59	19.52	11.586	
4,600.00	4,600.00	4,582.65	4,572.48	10.20	10.35	-101.91	-48.56	-230.13	236.47	216.51	19.96	11.846	
4,700.00	4,700.00	4,682.12	4,671.41	10.43	10.61	-101.98	-50.98	-240.16	246.84	226.43	20.41	12.095	
4,800.00	4,800.00	4,781.58	4,770.33	10.65	10.87	-102.05	-53.40	-250.19	257.21	236.35	20.86	12.333	
4,900.00	4,900.00	4,881.04	4,869.26	10.87	11.13	-102.11	-55.83	-260.21	267.58	246.27	21.30	12.561	
5,000.00	5,000.00	4,980.50	4,968.18	11.10	11.39	-102.16	-58.25	-270.24	277.95	256.19	21.75	12.779	
5,100.00	5,100.00	5,079.96	5,067.11	11.32	11.66	-102.22	-60.68	-280.27	288.31	266.11	22.20	12.988	
5,200.00	5,200.00	5,179.42	5,166.03	11.55	11.92	-102.26	-63.10	-290.29	298.68	276.03	22.65	13.188	
5,300.00	5,300.00	5,278.88	5,264.95	11.77	12.19	-102.31	-65.53	-300.32	309.05	285.95	23.10	13.380	
5,400.00	5,400.00	5,378.34	5,363.88	12.00	12.45	-102.35	-67.95	-310.35	319.42	295.87	23.55	13.565	
5,500.00	5,500.00	5,477.80	5,462.80	12.22	12.72	-102.39	-70.38	-320.37	329.79	305.79	24.00	13.743	
5,600.00	5,600.00	5,577.26	5,561.73	12.45	12.99	-102.43	-72.80	-330.40	340.16	315.71	24.45	13.914	
5,700.00	5,700.00	5,676.72	5,660.65	12.67	13.25	-102.46	-75.23	-340.43	350.53	325.63	24.90	14.078	
5,800.00	5,800.00	5,776.18	5,759.58	12.90	13.52	-102.49	-77.65	-350.45	360.90	335.55	25.35	14.237	
5,900.00	5,900.00	5,875.64	5,858.50	13.12	13.79	-102.52	-80.07	-360.48	371.27	345.47	25.80	14.390	
6,000.00	6,000.00	5,975.10	5,957.43	13.35	14.06	-102.55	-82.50	-370.51	381.64	355.38	26.25	14.537	
6,100.00	6,100.00	6,074.57	6,056.35	13.57	14.33	-102.58	-84.92	-380.53	392.01	365.30	26.70	14.679	
6,200.00	6,200.00	6,174.03	6,155.27	13.80	14.60	-102.61	-87.35	-390.56	402.38	375.22	27.16	14.817	
6,300.00	6,300.00	6,273.49	6,254.20	14.02	14.87	-102.63	-89.77	-400.59	412.75	385.14	27.61	14.949	

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Offset Design Thistle Unit - 117H - OH - Plan #1													Offset Site Error: 0.00 usft
Survey Program: 0-LEAM MWD+HDGM													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)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
6,400.00	6,400.00	6,372.95	6,353.12	14.25	15.14	-102.66	-92.20	-410.61	423.12	395.05	28.06	15.078	
6,500.00	6,500.00	6,472.41	6,452.05	14.47	15.41	-102.68	-94.62	-420.64	433.49	404.97	28.52	15.202	
6,600.00	6,600.00	6,571.87	6,550.97	14.70	15.68	-102.70	-97.05	-430.67	443.86	414.89	28.97	15.322	
6,700.00	6,700.00	6,671.33	6,649.90	14.92	15.95	-102.72	-99.47	-440.69	454.23	424.81	29.42	15.438	
6,800.00	6,800.00	6,770.79	6,748.82	15.15	16.23	-102.74	-101.90	-450.72	464.60	434.72	29.88	15.551	
6,900.00	6,900.00	6,870.25	6,847.74	15.37	16.50	-102.76	-104.32	-460.75	474.97	444.64	30.33	15.660	
7,000.00	7,000.00	6,969.71	6,946.67	15.59	16.77	-102.78	-106.74	-470.77	485.34	454.56	30.78	15.766	
7,100.00	7,100.00	7,069.17	7,045.59	15.82	17.04	-102.79	-109.17	-480.80	495.71	464.47	31.24	15.869	
7,200.00	7,200.00	7,168.63	7,144.52	16.04	17.32	-102.81	-111.59	-490.83	506.08	474.39	31.69	15.969	
7,300.00	7,300.00	7,268.09	7,243.44	16.27	17.59	-102.82	-114.02	-500.85	516.45	484.30	32.15	16.066	
7,400.00	7,400.00	7,367.55	7,342.37	16.49	17.87	-102.84	-116.44	-510.88	526.82	494.22	32.60	16.160	
7,500.00	7,500.00	7,467.02	7,441.29	16.72	18.14	-102.85	-118.87	-520.90	537.19	504.14	33.06	16.251	
7,600.00	7,600.00	7,566.48	7,540.21	16.94	18.41	-102.87	-121.29	-530.93	547.56	514.05	33.51	16.340	
7,700.00	7,700.00	7,665.94	7,639.14	17.17	18.69	-102.88	-123.72	-540.96	557.93	523.97	33.97	16.426	
7,800.00	7,800.00	7,765.40	7,738.06	17.39	18.96	-102.89	-126.14	-550.98	568.30	533.88	34.42	16.510	
7,900.00	7,900.00	7,864.86	7,836.99	17.62	19.24	-102.91	-128.57	-561.01	578.67	543.80	34.88	16.592	
8,000.00	8,000.00	7,964.32	7,935.91	17.84	19.51	-102.92	-130.99	-571.04	589.05	553.71	35.33	16.672	
8,100.00	8,100.00	8,063.78	8,034.84	18.07	19.79	-102.93	-133.41	-581.06	599.42	563.63	35.79	16.749	
8,200.00	8,200.00	8,163.24	8,133.76	18.29	20.06	-102.94	-135.84	-591.09	609.79	573.54	36.24	16.825	
8,300.00	8,300.00	8,262.70	8,232.68	18.52	20.34	-102.95	-138.26	-601.12	620.16	583.46	36.70	16.898	
8,400.00	8,400.00	8,362.16	8,331.61	18.74	20.61	-102.96	-140.69	-611.14	630.53	593.37	37.16	16.970	
8,500.00	8,500.00	8,461.62	8,430.53	18.97	20.89	-102.97	-143.11	-621.17	640.90	603.29	37.61	17.040	
8,600.00	8,600.00	8,561.08	8,529.46	19.19	21.17	-102.98	-145.54	-631.20	651.27	613.20	38.07	17.108	
8,700.00	8,700.00	8,660.54	8,628.38	19.42	21.44	-102.99	-147.96	-641.22	661.64	623.12	38.52	17.174	
8,800.00	8,800.00	8,760.00	8,727.31	19.64	21.72	-103.00	-150.39	-651.25	672.01	633.03	38.98	17.239	
8,900.00	8,900.00	8,859.47	8,826.23	19.87	21.99	-103.01	-152.81	-661.28	682.38	642.95	39.44	17.303	
9,000.00	9,000.00	8,958.93	8,925.15	20.09	22.27	-103.02	-155.24	-671.30	692.75	652.86	39.89	17.365	
9,100.00	9,100.00	9,058.39	9,024.08	20.31	22.55	-103.03	-157.66	-681.33	703.13	662.77	40.35	17.425	
9,175.27	9,175.27	9,133.25	9,098.54	20.48	22.75	-103.04	-159.49	-688.88	710.93	670.24	40.69	17.470	
9,200.00	9,199.99	9,157.82	9,122.98	20.54	22.82	-102.55	-160.08	-691.35	713.62	672.82	40.81	17.488	
9,250.00	9,249.74	9,210.14	9,175.02	20.65	22.97	-102.28	-161.28	-696.63	719.84	678.79	41.05	17.538	
9,300.00	9,298.81	9,283.42	9,247.71	20.77	23.14	-102.20	-156.62	-704.00	726.11	684.75	41.36	17.556	
9,350.00	9,346.74	9,358.19	9,320.48	20.88	23.30	-101.93	-141.36	-711.37	731.74	690.11	41.63	17.576	
9,400.00	9,393.09	9,433.85	9,391.12	20.98	23.43	-101.47	-115.42	-718.52	736.62	694.75	41.87	17.595	
9,450.00	9,437.44	9,509.70	9,457.44	21.08	23.55	-100.82	-79.39	-725.24	740.69	698.62	42.07	17.606	
9,500.00	9,479.37	9,585.01	9,517.46	21.18	23.65	-100.00	-34.41	-731.32	743.93	701.66	42.27	17.600	
9,550.00	9,518.50	9,659.11	9,569.61	21.29	23.73	-99.02	17.88	-736.60	746.37	703.88	42.49	17.567	
9,600.00	9,554.47	9,731.44	9,612.90	21.42	23.81	-97.92	75.58	-740.98	748.05	705.30	42.75	17.498	
9,650.00	9,586.95	9,801.55	9,646.89	21.56	23.89	-96.72	136.75	-744.41	749.05	705.99	43.05	17.398	
9,700.00	9,615.64	9,869.17	9,671.65	21.71	23.98	-95.45	199.57	-746.91	749.46	706.03	43.43	17.257	
9,750.00	9,640.27	9,934.15	9,687.63	21.88	24.10	-94.15	262.49	-748.52	749.38	705.52	43.86	17.085	
9,800.00	9,660.63	9,996.45	9,695.52	22.07	24.25	-92.83	324.25	-749.31	748.91	704.57	44.34	16.890	
9,850.00	9,676.51	10,051.42	9,696.74	22.29	24.42	-91.65	379.19	-749.43	748.19	703.34	44.85	16.681	
9,900.00	9,687.78	10,100.13	9,696.81	22.52	24.60	-90.86	427.90	-749.43	747.72	702.36	45.37	16.482	
9,950.00	9,694.33	10,149.69	9,696.88	22.77	24.82	-90.40	477.46	-749.43	747.44	701.51	45.93	16.274	
9,992.54	9,696.14	10,192.18	9,696.93	23.00	25.03	-90.29	519.95	-749.43	747.25	700.84	46.41	16.101	
10,000.00	9,696.15	10,199.64	9,696.95	23.05	25.07	-90.29	527.41	-749.43	747.21	700.72	46.49	16.071	
10,100.00	9,696.33	10,299.64	9,697.08	23.66	25.66	-90.29	627.41	-749.43	746.79	699.01	47.79	15.628	
10,200.00	9,696.50	10,399.64	9,697.22	24.36	26.37	-90.29	727.41	-749.43	746.37	697.11	49.26	15.151	
10,300.00	9,696.68	10,499.64	9,697.36	25.16	27.16	-90.28	827.41	-749.43	745.95	695.04	50.90	14.654	

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
Project: Lea County, NM (NAD-83)
Reference Site: Thistle Unit
Site Error: 0.00 usft
Reference Well: 102H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Plan #1

Local Co-ordinate Reference: Well 102H
TVD Reference: 3637.8' GE + 23.5' KB @ 3664.30usft
(Original Well Elev)
MD Reference: 3637.8' GE + 23.5' KB @ 3664.30usft
(Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM 5000.1 Multi User Db
Offset TVD Reference: Offset Datum

Offset Design Thistle Unit - 117H - OH - Plan #1												Offset Site Error: 0.00 usft
Survey Program: 0-LEAM MWD+HDGM												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)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
10,400.00	9,696.85	10,599.64	9,697.50	26.03	28.03	-90.28	927.41	-749.43	745.53	692.83	52.70	14.147
10,500.00	9,697.02	10,699.64	9,697.64	26.98	28.98	-90.28	1,027.41	-749.43	745.10	690.47	54.63	13.638
10,600.00	9,697.20	10,799.64	9,697.78	27.98	29.98	-90.28	1,127.40	-749.43	744.68	687.99	56.69	13.136
10,700.00	9,697.37	10,899.63	9,697.92	29.05	31.04	-90.27	1,227.40	-749.43	744.26	685.40	58.86	12.646
10,800.00	9,697.55	10,999.63	9,698.06	30.17	32.15	-90.27	1,327.40	-749.43	743.84	682.72	61.12	12.170
10,900.00	9,697.72	11,099.63	9,698.20	31.33	33.31	-90.27	1,427.40	-749.43	743.42	679.94	63.47	11.712
11,000.00	9,697.90	11,199.63	9,698.34	32.53	34.50	-90.27	1,527.40	-749.43	742.99	677.09	65.91	11.274
11,100.00	9,698.07	11,299.63	9,698.48	33.77	35.73	-90.26	1,627.40	-749.43	742.57	674.16	68.41	10.855
11,200.00	9,698.25	11,399.63	9,698.62	35.04	36.98	-90.26	1,727.40	-749.43	742.15	671.18	70.97	10.457
11,300.00	9,698.42	11,499.63	9,698.76	36.34	38.27	-90.26	1,827.40	-749.43	741.73	668.13	73.59	10.079
11,400.00	9,698.60	11,599.63	9,698.90	37.67	39.58	-90.25	1,927.40	-749.43	741.31	665.04	76.26	9.720
11,500.00	9,698.77	11,699.63	9,699.04	39.02	40.92	-90.25	2,027.40	-749.43	740.88	661.90	78.98	9.381
11,600.00	9,698.94	11,799.63	9,699.18	40.40	42.28	-90.25	2,127.39	-749.43	740.46	658.72	81.74	9.059
11,700.00	9,699.12	11,899.63	9,699.32	41.79	43.65	-90.25	2,227.39	-749.43	740.04	655.51	84.53	8.755
11,800.00	9,699.29	11,999.62	9,699.46	43.20	45.05	-90.24	2,327.39	-749.43	739.62	652.26	87.36	8.466
11,900.00	9,699.47	12,099.62	9,699.60	44.62	46.45	-90.24	2,427.39	-749.43	739.20	648.98	90.22	8.193
12,000.00	9,699.64	12,199.62	9,699.74	46.06	47.88	-90.24	2,527.39	-749.43	738.77	645.67	93.10	7.935
12,100.00	9,699.82	12,299.62	9,699.88	47.51	49.31	-90.24	2,627.39	-749.43	738.35	642.34	96.01	7.690
12,200.00	9,699.99	12,399.62	9,700.02	48.97	50.76	-90.23	2,727.39	-749.43	737.93	638.98	98.94	7.458
12,300.00	9,700.17	12,499.62	9,700.16	50.45	52.22	-90.23	2,827.39	-749.43	737.51	635.61	101.90	7.238
12,400.00	9,700.34	12,599.62	9,700.30	51.93	53.69	-90.23	2,927.39	-749.43	737.08	632.21	104.87	7.029
12,500.00	9,700.52	12,699.62	9,700.44	53.42	55.17	-90.23	3,027.39	-749.43	736.66	628.80	107.86	6.830
12,600.00	9,700.69	12,799.62	9,700.58	54.92	56.66	-90.22	3,127.38	-749.43	736.24	625.37	110.87	6.641
12,700.00	9,700.86	12,899.62	9,700.71	56.43	58.15	-90.22	3,227.38	-749.43	735.82	621.93	113.89	6.461
12,800.00	9,701.04	12,999.62	9,700.85	57.95	59.65	-90.22	3,327.38	-749.43	735.40	618.48	116.92	6.290
12,900.00	9,701.21	13,099.61	9,700.99	59.47	61.16	-90.22	3,427.38	-749.43	734.97	615.01	119.97	6.126
13,000.00	9,701.39	13,199.61	9,701.13	61.00	62.68	-90.21	3,527.38	-749.43	734.55	611.53	123.03	5.971
13,100.00	9,701.56	13,299.61	9,701.27	62.53	64.20	-90.21	3,627.38	-749.43	734.13	608.04	126.09	5.822
13,200.00	9,701.74	13,399.61	9,701.41	64.07	65.73	-90.21	3,727.38	-749.43	733.71	604.53	129.17	5.680
13,300.00	9,701.91	13,499.61	9,701.55	65.61	67.26	-90.21	3,827.38	-749.43	733.29	601.02	132.26	5.544
13,400.00	9,702.09	13,599.61	9,701.69	67.16	68.79	-90.20	3,927.38	-749.43	732.86	597.51	135.36	5.414
13,500.00	9,702.26	13,699.61	9,701.83	68.71	70.34	-90.20	4,027.38	-749.43	732.44	593.98	138.46	5.290
13,600.00	9,702.44	13,799.61	9,701.97	70.27	71.88	-90.20	4,127.37	-749.43	732.02	590.44	141.58	5.170
13,700.00	9,702.61	13,899.61	9,702.11	71.83	73.43	-90.20	4,227.37	-749.43	731.60	586.90	144.70	5.056
13,800.00	9,702.78	13,999.61	9,702.25	73.39	74.98	-90.19	4,327.37	-749.43	731.18	583.35	147.82	4.946
13,900.00	9,702.96	14,099.61	9,702.39	74.96	76.54	-90.19	4,427.37	-749.43	730.75	579.80	150.96	4.841
14,000.00	9,703.13	14,199.61	9,702.53	76.52	78.10	-90.19	4,527.37	-749.43	730.33	576.24	154.09	4.740
14,100.00	9,703.31	14,299.60	9,702.67	78.10	79.66	-90.18	4,627.37	-749.43	729.91	572.67	157.24	4.642
14,200.00	9,703.48	14,399.60	9,702.81	79.67	81.23	-90.18	4,727.37	-749.43	729.49	569.10	160.39	4.548
14,300.00	9,703.66	14,499.60	9,702.95	81.25	82.79	-90.18	4,827.37	-749.43	729.07	565.52	163.54	4.458
14,400.00	9,703.83	14,599.60	9,703.09	82.83	84.36	-90.18	4,927.37	-749.43	728.64	561.94	166.70	4.371
14,500.00	9,704.01	14,699.60	9,703.23	84.41	85.94	-90.17	5,027.37	-749.43	728.22	558.36	169.86	4.287
14,600.00	9,704.18	14,799.60	9,703.37	85.99	87.51	-90.17	5,127.36	-749.43	727.80	554.77	173.03	4.206
14,700.00	9,704.35	14,899.60	9,703.51	87.58	89.09	-90.17	5,227.36	-749.43	727.38	551.18	176.20	4.128
14,800.00	9,704.53	14,999.60	9,703.65	89.16	90.67	-90.17	5,327.36	-749.43	726.96	547.58	179.38	4.053
14,900.00	9,704.70	15,099.60	9,703.79	90.75	92.25	-90.16	5,427.36	-749.43	726.53	543.98	182.55	3.980
15,000.00	9,704.88	15,199.60	9,703.93	92.34	93.83	-90.16	5,527.36	-749.43	726.11	540.38	185.73	3.909
15,100.00	9,705.05	15,299.60	9,704.07	93.94	95.42	-90.16	5,627.36	-749.43	725.69	536.77	188.92	3.841
15,200.00	9,705.23	15,399.59	9,704.21	95.53	97.01	-90.16	5,727.36	-749.43	725.27	533.16	192.11	3.775
15,300.00	9,705.40	15,499.59	9,704.35	97.13	98.59	-90.15	5,827.36	-749.43	724.85	529.55	195.30	3.712
15,400.00	9,705.58	15,599.59	9,704.48	98.72	100.18	-90.15	5,927.36	-749.43	724.42	525.93	198.49	3.650

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
Project: Lea County, NM (NAD-83)
Reference Site: Thistle Unit
Site Error: 0.00 usft
Reference Well: 102H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Plan #1

Local Co-ordinate Reference: Well 102H
TVD Reference: 3637.8' GE + 23.5' KB @ 3664.30usft
(Original Well Elev)
MD Reference: 3637.8' GE + 23.5' KB @ 3664.30usft
(Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM 5000.1 Multi User Db
Offset TVD Reference: Offset Datum

Offset Design Thistle Unit - 117H - OH - Plan #1													Offset Site Error: 0.00 usft
Survey Program: 0-LEAM MWD+HDGM													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 Tooface (")	Offset Wellbore Centre +N-S (usft)	+E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
15,500.00	9,705.75	15,699.59	9,704.62	100.32	101.78	-90.15	6,027.36	-749.43	724.00	522.32	201.69	3.590	
15,600.00	9,705.93	15,799.59	9,704.76	101.92	103.37	-90.15	6,127.35	-749.43	723.58	518.70	204.88	3.532	
15,700.00	9,706.10	15,899.59	9,704.90	103.52	104.96	-90.14	6,227.35	-749.43	723.16	515.07	208.08	3.475	
15,800.00	9,706.27	15,999.59	9,705.04	105.12	106.56	-90.14	6,327.35	-749.43	722.74	511.45	211.29	3.421	
15,900.00	9,706.45	16,099.59	9,705.18	106.72	108.15	-90.14	6,427.35	-749.43	722.31	507.82	214.49	3.368	
16,000.00	9,706.62	16,199.59	9,705.32	108.33	109.75	-90.13	6,527.35	-749.43	721.89	504.19	217.70	3.316	
16,100.00	9,706.80	16,299.59	9,705.46	109.93	111.35	-90.13	6,627.35	-749.43	721.47	500.56	220.91	3.266	
16,200.00	9,706.97	16,399.59	9,705.60	111.54	112.95	-90.13	6,727.35	-749.43	721.05	496.93	224.12	3.217	
16,300.00	9,707.15	16,499.58	9,705.74	113.14	114.55	-90.13	6,827.35	-749.43	720.63	493.30	227.33	3.170	
16,400.00	9,707.32	16,599.58	9,705.88	114.75	116.15	-90.12	6,927.35	-749.43	720.20	489.66	230.54	3.124	
16,500.00	9,707.50	16,699.58	9,706.02	116.36	117.76	-90.12	7,027.35	-749.43	719.78	486.02	233.76	3.079	
16,600.00	9,707.67	16,799.58	9,706.16	117.97	119.36	-90.12	7,127.34	-749.43	719.36	482.38	236.98	3.036	
16,700.00	9,707.85	16,899.58	9,706.30	119.58	120.96	-90.12	7,227.34	-749.43	718.94	478.74	240.19	2.993	
16,800.00	9,708.02	16,999.58	9,706.44	121.19	122.57	-90.11	7,327.34	-749.43	718.52	475.10	243.41	2.952	
16,900.00	9,708.19	17,099.58	9,706.58	122.80	124.17	-90.11	7,427.34	-749.43	718.09	471.46	246.64	2.912	
17,000.00	9,708.37	17,199.58	9,706.72	124.41	125.78	-90.11	7,527.34	-749.43	717.67	467.81	249.86	2.872	
17,100.00	9,708.54	17,299.58	9,706.86	126.02	127.39	-90.10	7,627.34	-749.43	717.25	464.17	253.08	2.834	
17,200.00	9,708.72	17,399.58	9,707.00	127.64	129.00	-90.10	7,727.34	-749.43	716.83	460.52	256.31	2.797	
17,204.54	9,708.73	17,401.09	9,707.00	127.71	129.02	-90.10	7,728.85	-749.43	716.82	460.37	256.44	2.795 SF	
17,300.00	9,708.89	17,401.09	9,707.00	129.25	129.02	-90.10	7,728.85	-749.43	723.14	466.22	256.93	2.815	
17,400.00	9,709.07	17,401.09	9,707.00	130.86	129.02	-90.10	7,728.85	-749.43	742.99	489.95	253.04	2.936	
17,500.00	9,709.24	17,401.09	9,707.00	132.48	129.02	-90.10	7,728.85	-749.43	775.32	529.80	245.52	3.158	
17,600.00	9,709.42	17,401.09	9,707.00	134.09	129.02	-90.10	7,728.85	-749.43	818.67	583.09	235.57	3.475	
17,700.00	9,709.59	17,401.09	9,707.00	135.71	129.02	-90.10	7,728.85	-749.43	871.38	647.04	224.34	3.884	
17,800.00	9,709.77	17,401.09	9,707.00	137.33	129.02	-90.10	7,728.85	-749.43	931.88	719.13	212.75	4.380	
17,900.00	9,709.94	17,401.09	9,707.00	138.94	129.02	-90.10	7,728.85	-749.43	998.75	797.34	201.41	4.959	
18,000.00	9,710.11	17,401.09	9,707.00	140.56	129.02	-90.10	7,728.85	-749.43	1,070.79	880.11	190.68	5.616	
18,100.00	9,710.29	17,401.09	9,707.00	142.18	129.02	-90.10	7,728.85	-749.43	1,147.03	966.28	180.75	6.346	
18,200.00	9,710.46	17,401.09	9,707.00	143.80	129.02	-90.10	7,728.85	-749.43	1,228.69	1,055.02	171.68	7.145	
18,300.00	9,710.64	17,401.09	9,707.00	145.42	129.02	-90.10	7,728.85	-749.43	1,309.15	1,145.70	163.45	8.010	
18,400.00	9,710.81	17,401.09	9,707.00	147.04	129.02	-90.10	7,728.85	-749.43	1,393.90	1,237.89	156.01	8.934	
18,500.00	9,710.99	17,401.09	9,707.00	148.65	129.02	-90.10	7,728.85	-749.43	1,480.56	1,331.24	149.32	9.916	
18,600.00	9,711.16	17,401.09	9,707.00	150.27	129.02	-90.10	7,728.85	-749.43	1,568.80	1,425.52	143.28	10.949	
18,700.00	9,711.34	17,401.09	9,707.00	151.90	129.02	-90.10	7,728.85	-749.43	1,658.38	1,520.55	137.84	12.032	
18,800.00	9,711.51	17,401.09	9,707.00	153.52	129.02	-90.10	7,728.85	-749.43	1,749.09	1,616.17	132.92	13.159	
18,900.00	9,711.69	17,401.09	9,707.00	155.14	129.02	-90.10	7,728.85	-749.43	1,840.77	1,712.29	128.48	14.328	
19,000.00	9,711.86	17,401.09	9,707.00	156.76	129.02	-90.10	7,728.85	-749.43	1,933.27	1,808.82	124.45	15.535	
19,100.00	9,712.03	17,401.09	9,707.00	158.38	129.02	-90.10	7,728.85	-749.43	2,026.48	1,905.69	120.79	16.777	
19,200.00	9,712.21	17,401.09	9,707.00	160.00	129.02	-90.10	7,728.85	-749.43	2,120.31	2,002.85	117.46	18.052	
19,300.00	9,712.38	17,401.09	9,707.00	161.62	129.02	-90.10	7,728.85	-749.43	2,214.68	2,100.26	114.42	19.356	
19,400.00	9,712.56	17,401.09	9,707.00	163.25	129.02	-90.10	7,728.85	-749.43	2,309.52	2,197.88	111.64	20.687	
19,500.00	9,712.73	17,401.09	9,707.00	164.87	129.02	-90.10	7,728.85	-749.43	2,404.78	2,295.68	109.10	22.042	
19,600.00	9,712.91	17,401.09	9,707.00	166.49	129.02	-90.10	7,728.85	-749.43	2,500.41	2,393.65	106.76	23.420	
19,700.00	9,713.08	17,401.09	9,707.00	168.12	129.02	-90.10	7,728.85	-749.43	2,596.38	2,491.76	104.62	24.818	
19,800.00	9,713.26	17,401.09	9,707.00	169.74	129.02	-90.10	7,728.85	-749.43	2,692.63	2,589.99	102.64	26.234	
19,900.00	9,713.43	17,401.09	9,707.00	171.36	129.02	-90.10	7,728.85	-749.43	2,789.15	2,688.34	100.81	27.667	
20,000.00	9,713.61	17,401.09	9,707.00	172.99	129.02	-90.10	7,728.85	-749.43	2,885.90	2,786.78	99.12	29.114	
20,100.00	9,713.78	17,401.09	9,707.00	174.61	129.02	-90.10	7,728.85	-749.43	2,982.87	2,885.31	97.56	30.574	
20,200.00	9,713.95	17,401.09	9,707.00	176.24	129.02	-90.10	7,728.85	-749.43	3,080.04	2,983.92	96.11	32.046	
20,300.00	9,714.13	17,401.09	9,707.00	177.86	129.02	-90.10	7,728.85	-749.43	3,177.38	3,082.61	94.77	33.528	

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
Project: Lea County, NM (NAD-83)
Reference Site: Thistle Unit
Site Error: 0.00 usft
Reference Well: 102H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Plan #1

Local Co-ordinate Reference: Well 102H
TVD Reference: 3637.8' GE + 23.5' KB @ 3664.30usft
(Original Well Elev)
MD Reference: 3637.8' GE + 23.5' KB @ 3664.30usft
(Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM 5000.1 Multi User Db
Offset TVD Reference: Offset Datum

Offset Design Thistle Unit - 117H - OH - Plan #1													Offset Site Error: 0.00 usft
Survey Program: 0-LEAM MWD+HDGM													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)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
20,400.00	9,714.30	17,401.09	9,707.00	179.49	129.02	-90.10	7,728.85	-749.43	3,274.88	3,181.36	93.52	35.019	
20,500.00	9,714.48	17,401.09	9,707.00	181.11	129.02	-90.10	7,728.85	-749.43	3,372.52	3,280.17	92.35	36.517	
20,600.00	9,714.65	17,401.09	9,707.00	182.74	129.02	-90.10	7,728.85	-749.43	3,470.30	3,379.03	91.27	38.023	
20,700.00	9,714.83	17,401.09	9,707.00	184.36	129.02	-90.10	7,728.85	-749.43	3,568.21	3,477.95	90.26	39.534	
20,800.00	9,715.00	17,401.09	9,707.00	185.99	129.02	-90.10	7,728.85	-749.43	3,666.22	3,576.91	89.31	41.049	
20,900.00	9,715.18	17,401.09	9,707.00	187.61	129.02	-90.10	7,728.85	-749.43	3,764.34	3,675.91	88.43	42.569	
21,000.00	9,715.35	17,401.09	9,707.00	189.24	129.02	-90.10	7,728.85	-749.43	3,862.56	3,774.96	87.60	44.091	
21,100.00	9,715.52	17,401.09	9,707.00	190.87	129.02	-90.10	7,728.85	-749.43	3,960.87	3,874.04	86.83	45.616	
21,200.00	9,715.70	17,401.09	9,707.00	192.49	129.02	-90.10	7,728.85	-749.43	4,059.26	3,973.15	86.11	47.143	
21,300.00	9,715.87	17,401.09	9,707.00	194.12	129.02	-90.10	7,728.85	-749.43	4,157.72	4,072.30	85.43	48.670	
21,400.00	9,716.05	17,401.09	9,707.00	195.75	129.02	-90.10	7,728.85	-749.43	4,256.26	4,171.47	84.79	50.198	
21,500.00	9,716.22	17,401.09	9,707.00	197.37	129.02	-90.10	7,728.85	-749.43	4,354.86	4,270.67	84.19	51.725	
21,600.00	9,716.40	17,401.09	9,707.00	199.00	129.02	-90.10	7,728.85	-749.43	4,453.53	4,369.90	83.63	53.252	
21,700.00	9,716.57	17,401.09	9,707.00	200.63	129.02	-90.10	7,728.85	-749.43	4,552.25	4,469.15	83.10	54.778	
21,800.00	9,716.75	17,401.09	9,707.00	202.26	129.02	-90.10	7,728.85	-749.43	4,651.03	4,568.43	82.61	56.302	
21,900.00	9,716.92	17,401.09	9,707.00	203.89	129.02	-90.10	7,728.85	-749.43	4,749.86	4,667.72	82.14	57.824	
22,000.00	9,717.10	17,401.09	9,707.00	205.51	129.02	-90.10	7,728.85	-749.43	4,848.74	4,767.04	81.71	59.344	
22,100.00	9,717.27	17,401.09	9,707.00	207.14	129.02	-90.10	7,728.85	-749.43	4,947.67	4,866.37	81.29	60.861	
22,200.00	9,717.44	17,401.09	9,707.00	208.77	129.02	-90.10	7,728.85	-749.43	5,046.63	4,965.72	80.91	62.375	
22,300.00	9,717.62	17,401.09	9,707.00	210.40	129.02	-90.10	7,728.85	-749.43	5,145.64	5,065.09	80.54	63.885	
22,400.00	9,717.79	17,401.09	9,707.00	212.03	129.02	-90.10	7,728.85	-749.43	5,244.68	5,164.48	80.20	65.392	
22,500.00	9,717.97	17,401.09	9,707.00	213.66	129.02	-90.10	7,728.85	-749.43	5,343.76	5,263.88	79.88	66.896	
22,600.00	9,718.14	17,401.09	9,707.00	215.28	129.02	-90.10	7,728.85	-749.43	5,442.87	5,363.29	79.58	68.395	
22,700.00	9,718.32	17,401.09	9,707.00	216.91	129.02	-90.10	7,728.85	-749.43	5,542.02	5,462.72	79.30	69.890	
22,800.00	9,718.49	17,401.09	9,707.00	218.54	129.02	-90.10	7,728.85	-749.43	5,641.19	5,562.16	79.03	71.380	
22,900.00	9,718.67	17,401.09	9,707.00	220.17	129.02	-90.10	7,728.85	-749.43	5,740.40	5,661.61	78.78	72.866	
23,000.00	9,718.84	17,401.09	9,707.00	221.80	129.02	-90.10	7,728.85	-749.43	5,839.63	5,761.08	78.55	74.346	
23,100.00	9,719.02	17,401.09	9,707.00	223.43	129.02	-90.10	7,728.85	-749.43	5,938.88	5,860.56	78.33	75.822	
23,200.00	9,719.19	17,401.09	9,707.00	225.06	129.02	-90.10	7,728.85	-749.43	6,038.16	5,960.04	78.12	77.293	
23,300.00	9,719.36	17,401.09	9,707.00	226.69	129.02	-90.10	7,728.85	-749.43	6,137.47	6,059.54	77.93	78.758	
23,400.00	9,719.54	17,401.09	9,707.00	228.32	129.02	-90.10	7,728.85	-749.43	6,236.79	6,159.05	77.75	80.218	
23,500.00	9,719.71	17,401.09	9,707.00	229.95	129.02	-90.10	7,728.85	-749.43	6,336.14	6,258.56	77.58	81.673	
23,600.00	9,719.89	17,401.09	9,707.00	231.58	129.02	-90.10	7,728.85	-749.43	6,435.51	6,358.09	77.42	83.122	
23,700.00	9,720.06	17,401.09	9,707.00	233.21	129.02	-90.10	7,728.85	-749.43	6,534.90	6,457.62	77.28	84.565	
23,800.00	9,720.24	17,401.09	9,707.00	234.84	129.02	-90.10	7,728.85	-749.43	6,634.30	6,557.16	77.14	86.003	
23,900.00	9,720.41	17,401.09	9,707.00	236.47	129.02	-90.10	7,728.85	-749.43	6,733.73	6,656.71	77.01	87.434	
24,000.00	9,720.59	17,401.09	9,707.00	238.10	129.02	-90.10	7,728.85	-749.43	6,833.17	6,756.27	76.90	88.860	
24,100.00	9,720.76	17,401.09	9,707.00	239.73	129.02	-90.10	7,728.85	-749.43	6,932.62	6,855.83	76.79	90.280	
24,200.00	9,720.94	17,401.09	9,707.00	241.36	129.02	-90.10	7,728.85	-749.43	7,032.09	6,955.40	76.69	91.694	
24,300.00	9,721.11	17,401.09	9,707.00	242.99	129.02	-90.10	7,728.85	-749.43	7,131.58	7,054.98	76.60	93.102	
24,400.00	9,721.28	17,401.09	9,707.00	244.62	129.02	-90.10	7,728.85	-749.43	7,231.08	7,154.56	76.52	94.503	
24,500.00	9,721.46	17,401.09	9,707.00	246.25	129.02	-90.10	7,728.85	-749.43	7,330.59	7,254.15	76.44	95.899	
24,600.00	9,721.63	17,401.09	9,707.00	247.88	129.02	-90.10	7,728.85	-749.43	7,430.12	7,353.75	76.37	97.288	
24,700.00	9,721.81	17,401.09	9,707.00	249.51	129.02	-90.10	7,728.85	-749.43	7,529.66	7,453.35	76.31	98.671	
24,800.00	9,721.98	17,401.09	9,707.00	251.14	129.02	-90.10	7,728.85	-749.43	7,629.21	7,552.96	76.26	100.048	
24,810.04	9,722.00	17,401.09	9,707.00	251.31	129.02	-90.10	7,728.85	-749.43	7,639.21	7,562.96	76.25	100.186	

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 102H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3637.8' GE + 23.5' KB @ 3664.30usft (Original Well Elev)
Reference Site:	Thistle Unit	MD Reference:	3637.8' GE + 23.5' KB @ 3664.30usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	102H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Multi User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Thistle Unit - 138H - OH - Plan #1													Offset Site Error: 0.00 usft
Survey Program: 0-LEAM MWD+HDGM													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance			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)	Minimum Separation (usft)		
0.00	0.00	0.00	0.00	0.00	0.00	89.66	0.18	29.93	29.93				
100.00	100.00	99.50	99.50	0.09	0.09	89.66	0.18	29.93	29.93	29.76	0.17	174.505	
200.00	200.00	199.50	199.50	0.31	0.31	89.66	0.18	29.93	29.93	29.31	0.62	48.247	
300.00	300.00	299.50	299.50	0.54	0.53	89.66	0.18	29.93	29.93	28.86	1.07	27.975	
400.00	400.00	399.50	399.50	0.76	0.76	89.66	0.18	29.93	29.93	28.41	1.52	19.699	
500.00	500.00	499.50	499.50	0.99	0.98	89.66	0.18	29.93	29.93	27.96	1.97	15.201	
600.00	600.00	599.50	599.50	1.21	1.21	89.66	0.18	29.93	29.93	27.51	2.42	12.376	
700.00	700.00	699.50	699.50	1.43	1.43	89.66	0.18	29.93	29.93	27.06	2.87	10.436	
800.00	800.00	799.50	799.50	1.66	1.66	89.66	0.18	29.93	29.93	26.61	3.32	9.022	
900.00	900.00	899.50	899.50	1.88	1.88	89.66	0.18	29.93	29.93	26.16	3.77	7.945	
1,000.00	1,000.00	999.50	999.50	2.11	2.11	89.66	0.18	29.93	29.93	25.71	4.22	7.098	
1,100.00	1,100.00	1,099.50	1,099.50	2.33	2.33	89.66	0.18	29.93	29.93	25.26	4.67	6.414	
1,200.00	1,200.00	1,199.50	1,199.50	2.56	2.56	89.66	0.18	29.93	29.93	24.81	5.12	5.851	
1,300.00	1,300.00	1,299.50	1,299.50	2.78	2.78	89.66	0.18	29.93	29.93	24.37	5.57	5.378	
1,400.00	1,400.00	1,399.50	1,399.50	3.01	3.01	89.66	0.18	29.93	29.93	23.92	6.01	4.976	
1,500.00	1,500.00	1,499.50	1,499.50	3.23	3.23	89.66	0.18	29.93	29.93	23.47	6.46	4.630	
1,600.00	1,600.00	1,599.50	1,599.50	3.46	3.46	89.66	0.18	29.93	29.93	23.02	6.91	4.329	
1,700.00	1,700.00	1,699.50	1,699.50	3.68	3.68	89.66	0.18	29.93	29.93	22.57	7.36	4.065	
1,800.00	1,800.00	1,799.50	1,799.50	3.91	3.91	89.66	0.18	29.93	29.93	22.12	7.81	3.831	
1,900.00	1,900.00	1,899.50	1,899.50	4.13	4.13	89.66	0.18	29.93	29.93	21.67	8.26	3.622	
2,000.00	2,000.00	1,999.50	1,999.50	4.36	4.36	89.66	0.18	29.93	29.93	21.22	8.71	3.436	
2,100.00	2,100.00	2,099.50	2,099.50	4.58	4.58	89.66	0.18	29.93	29.93	20.77	9.16	3.267	
2,200.00	2,200.00	2,199.50	2,199.50	4.81	4.80	89.66	0.18	29.93	29.93	20.32	9.61	3.114	
2,300.00	2,300.00	2,299.50	2,299.50	5.03	5.03	89.66	0.18	29.93	29.93	19.87	10.06	2.975	
2,400.00	2,400.00	2,399.50	2,399.50	5.26	5.25	89.66	0.18	29.93	29.93	19.42	10.51	2.848	
2,500.00	2,500.00	2,499.50	2,499.50	5.48	5.48	89.66	0.18	29.93	29.93	18.97	10.96	2.731	
2,600.00	2,600.00	2,599.50	2,599.50	5.71	5.70	89.66	0.18	29.93	29.93	18.52	11.41	2.623	
2,700.00	2,700.00	2,699.50	2,699.50	5.93	5.93	89.66	0.18	29.93	29.93	18.07	11.86	2.524	
2,800.00	2,800.00	2,799.50	2,799.50	6.15	6.15	89.66	0.18	29.93	29.93	17.62	12.31	2.432	
2,900.00	2,900.00	2,899.50	2,899.50	6.38	6.38	89.66	0.18	29.93	29.93	17.17	12.76	2.346	
3,000.00	3,000.00	2,999.50	2,999.50	6.60	6.60	89.66	0.18	29.93	29.93	16.72	13.21	2.266	
3,100.00	3,100.00	3,099.50	3,099.50	6.83	6.83	89.66	0.18	29.93	29.93	16.27	13.66	2.192	
3,200.00	3,200.00	3,199.50	3,199.50	7.05	7.05	89.66	0.18	29.93	29.93	15.82	14.11	2.122	
3,245.92	3,245.92	3,245.42	3,245.42	7.16	7.14	90.00	0.00	29.93	29.93	15.63	14.30	2.093 CC	
3,300.00	3,300.00	3,299.49	3,299.49	7.28	7.25	91.31	-0.68	29.93	29.94	15.41	14.53	2.061	
3,400.00	3,400.00	3,399.43	3,399.39	7.50	7.42	96.27	-3.29	29.93	30.11	15.19	14.92	2.018 ES	
3,500.00	3,500.00	3,499.24	3,499.10	7.73	7.59	104.31	-7.63	29.93	30.89	15.58	15.31	2.017 SF	
3,600.00	3,600.00	3,598.87	3,598.54	7.95	7.76	114.59	-13.70	29.93	32.93	17.22	15.71	2.097	
3,700.00	3,700.00	3,698.26	3,697.63	8.18	7.94	125.65	-21.47	29.93	36.88	20.79	16.09	2.292	
3,800.00	3,800.00	3,797.87	3,796.86	8.40	8.12	135.21	-30.15	29.93	42.57	26.08	16.49	2.581	
3,900.00	3,900.00	3,897.49	3,896.10	8.63	8.30	142.38	-38.84	29.93	49.15	32.26	16.89	2.910	
4,000.00	4,000.00	3,997.11	3,995.34	8.85	8.50	147.79	-47.52	29.93	56.31	39.02	17.30	3.256	
4,100.00	4,100.00	4,096.73	4,094.58	9.08	8.69	151.96	-56.20	29.93	63.86	46.16	17.70	3.607	
4,200.00	4,200.00	4,196.35	4,193.82	9.30	8.89	155.24	-64.88	29.93	71.68	53.56	18.12	3.957	
4,300.00	4,300.00	4,295.97	4,293.06	9.53	9.09	157.86	-73.56	29.93	79.68	61.15	18.53	4.300	
4,400.00	4,400.00	4,395.59	4,392.30	9.75	9.30	160.00	-82.25	29.93	87.82	68.87	18.94	4.636	
4,500.00	4,500.00	4,495.21	4,491.54	9.98	9.51	161.78	-90.93	29.93	96.06	76.70	19.36	4.961	
4,600.00	4,600.00	4,594.82	4,590.79	10.20	9.72	163.28	-99.61	29.93	104.38	84.59	19.78	5.276	
4,700.00	4,700.00	4,694.44	4,690.03	10.43	9.93	164.55	-108.29	29.93	112.75	92.55	20.20	5.581	
4,800.00	4,800.00	4,794.06	4,789.27	10.65	10.15	165.65	-116.98	29.93	121.18	100.55	20.63	5.875	
4,900.00	4,900.00	4,893.68	4,888.51	10.87	10.37	166.60	-125.66	29.93	129.64	108.59	21.05	6.159	

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 102H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3637.8' GE + 23.5' KB @ 3664.30usft (Original Well Elev)
Reference Site:	Thistle Unit	MD Reference:	3637.8' GE + 23.5' KB @ 3664.30usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	102H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Multi User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Thistle Unit - 138H - OH - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-LEAM MWD+HDGM													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)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	5,000.00	4,993.30	4,987.75	11.10	10.59	167.44	-134.34	29.93	138.14	116.66	21.48	6.432		
5,100.00	5,100.00	5,095.30	5,089.42	11.32	10.82	168.13	-142.44	29.93	145.90	123.96	21.94	6.651		
5,200.00	5,200.00	5,197.72	5,191.64	11.55	11.05	168.62	-148.76	29.93	151.94	129.54	22.41	6.781		
5,300.00	5,300.00	5,300.33	5,294.16	11.77	11.28	168.95	-153.25	29.93	156.24	133.37	22.87	6.832		
5,400.00	5,400.00	5,403.07	5,396.86	12.00	11.51	169.13	-155.91	29.93	158.78	135.46	23.32	6.808		
5,500.00	5,500.00	5,505.72	5,499.50	12.22	11.72	169.19	-156.73	29.93	159.56	135.80	23.76	6.716		
5,600.00	5,600.00	5,605.72	5,599.50	12.45	11.92	169.19	-156.73	29.93	159.56	135.37	24.19	6.597		
5,700.00	5,700.00	5,705.72	5,699.50	12.67	12.14	169.19	-156.73	29.93	159.56	134.93	24.63	6.478		
5,800.00	5,800.00	5,805.72	5,799.50	12.90	12.35	169.19	-156.73	29.93	159.56	134.49	25.07	6.364		
5,900.00	5,900.00	5,905.72	5,899.50	13.12	12.56	169.19	-156.73	29.93	159.56	134.05	25.51	6.254		
6,000.00	6,000.00	6,005.72	5,999.50	13.35	12.78	169.19	-156.73	29.93	159.56	133.60	25.96	6.147		
6,100.00	6,100.00	6,105.72	6,099.50	13.57	12.99	169.19	-156.73	29.93	159.56	133.16	26.40	6.044		
6,200.00	6,200.00	6,205.72	6,199.50	13.80	13.20	169.19	-156.73	29.93	159.56	132.72	26.84	5.945		
6,300.00	6,300.00	6,305.72	6,299.50	14.02	13.42	169.19	-156.73	29.93	159.56	132.28	27.28	5.848		
6,400.00	6,400.00	6,405.72	6,399.50	14.25	13.63	169.19	-156.73	29.93	159.56	131.83	27.73	5.755		
6,500.00	6,500.00	6,505.72	6,499.50	14.47	13.85	169.19	-156.73	29.93	159.56	131.39	28.17	5.664		
6,600.00	6,600.00	6,605.72	6,599.50	14.70	14.07	169.19	-156.73	29.93	159.56	130.95	28.61	5.576		
6,700.00	6,700.00	6,705.72	6,699.50	14.92	14.28	169.19	-156.73	29.93	159.56	130.50	29.06	5.491		
6,800.00	6,800.00	6,805.72	6,799.50	15.15	14.50	169.19	-156.73	29.93	159.56	130.06	29.50	5.408		
6,900.00	6,900.00	6,905.72	6,899.50	15.37	14.71	169.19	-156.73	29.93	159.56	129.61	29.95	5.328		
7,000.00	7,000.00	7,005.72	6,999.50	15.59	14.93	169.19	-156.73	29.93	159.56	129.17	30.39	5.250		
7,100.00	7,100.00	7,105.72	7,099.50	15.82	15.15	169.19	-156.73	29.93	159.56	128.72	30.84	5.175		
7,200.00	7,200.00	7,205.72	7,199.50	16.04	15.37	169.19	-156.73	29.93	159.56	128.28	31.28	5.101		
7,300.00	7,300.00	7,305.72	7,299.50	16.27	15.58	169.19	-156.73	29.93	159.56	127.84	31.72	5.030		
7,400.00	7,400.00	7,405.72	7,399.50	16.49	15.80	169.19	-156.73	29.93	159.56	127.39	32.17	4.960		
7,500.00	7,500.00	7,505.72	7,499.50	16.72	16.02	169.19	-156.73	29.93	159.56	126.95	32.61	4.892		
7,600.00	7,600.00	7,605.72	7,599.50	16.94	16.24	169.19	-156.73	29.93	159.56	126.50	33.06	4.826		
7,700.00	7,700.00	7,705.72	7,699.50	17.17	16.46	169.19	-156.73	29.93	159.56	126.06	33.51	4.762		
7,800.00	7,800.00	7,805.72	7,799.50	17.39	16.67	169.19	-156.73	29.93	159.56	125.61	33.95	4.700		
7,900.00	7,900.00	7,905.72	7,899.50	17.62	16.89	169.19	-156.73	29.93	159.56	125.16	34.40	4.639		
8,000.00	8,000.00	8,005.72	7,999.50	17.84	17.11	169.19	-156.73	29.93	159.56	124.72	34.84	4.580		
8,100.00	8,100.00	8,105.72	8,099.50	18.07	17.33	169.19	-156.73	29.93	159.56	124.27	35.29	4.522		
8,200.00	8,200.00	8,205.72	8,199.50	18.29	17.55	169.19	-156.73	29.93	159.56	123.83	35.73	4.465		
8,300.00	8,300.00	8,305.72	8,299.50	18.52	17.77	169.19	-156.73	29.93	159.56	123.38	36.18	4.410		
8,400.00	8,400.00	8,405.72	8,399.50	18.74	17.99	169.19	-156.73	29.93	159.56	122.94	36.63	4.357		
8,500.00	8,500.00	8,505.72	8,499.50	18.97	18.21	169.19	-156.73	29.93	159.56	122.49	37.07	4.304		
8,600.00	8,600.00	8,605.72	8,599.50	19.19	18.43	169.19	-156.73	29.93	159.56	122.04	37.52	4.253		
8,700.00	8,700.00	8,705.72	8,699.50	19.42	18.65	169.19	-156.73	29.93	159.56	121.60	37.96	4.203		
8,800.00	8,800.00	8,805.72	8,799.50	19.64	18.87	169.19	-156.73	29.93	159.56	121.15	38.41	4.154		
8,900.00	8,900.00	8,905.72	8,899.50	19.87	19.09	169.19	-156.73	29.93	159.56	120.70	38.86	4.106		
9,000.00	9,000.00	9,005.72	8,999.50	20.09	19.31	169.19	-156.73	29.93	159.56	120.26	39.30	4.060		
9,100.00	9,100.00	9,105.72	9,099.50	20.31	19.53	169.19	-156.73	29.93	159.56	119.81	39.75	4.014		
9,175.27	9,175.27	9,180.98	9,174.77	20.48	19.69	169.19	-156.73	29.93	159.56	119.47	40.09	3.981		
9,200.00	9,199.99	9,205.71	9,199.49	20.54	19.75	169.46	-156.73	29.93	160.14	119.94	40.20	3.984		
9,250.00	9,249.74	9,255.46	9,249.24	20.65	19.86	169.67	-156.73	29.93	164.82	124.41	40.42	4.078		
9,300.00	9,298.81	9,304.53	9,298.31	20.77	19.96	170.05	-156.73	29.93	174.19	133.55	40.64	4.286		
9,350.00	9,346.74	9,352.46	9,346.24	20.88	20.07	170.53	-156.73	29.93	188.18	147.32	40.86	4.606		
9,400.00	9,393.09	9,398.81	9,392.59	20.98	20.17	171.05	-156.73	29.93	206.67	165.60	41.07	5.033		
9,450.00	9,437.44	9,443.15	9,436.94	21.08	20.27	171.54	-156.73	29.93	229.52	188.25	41.27	5.562		
9,500.00	9,479.37	9,485.08	9,478.87	21.18	20.36	171.95	-156.73	29.93	256.52	215.06	41.45	6.188		

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 102H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3637.8' GE + 23.5' KB @ 3664.30usft (Original Well Elev)
Reference Site:	Thistle Unit	MD Reference:	3637.8' GE + 23.5' KB @ 3664.30usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	102H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Multi User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Thistle Unit - 138H - OH - Plan #1														Offset Site Error:	0.00 usft
Survey Program: 0-LEAM MWD+HDGM														Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Semi Major Axis	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
9,550.00	9,518.50	9,524.22	9,518.00	21.29	20.45	172.25	-156.73	29.93	287.43	245.80	41.63	6.905			
9,600.00	9,554.47	9,560.19	9,553.97	21.42	20.53	172.42	-156.73	29.93	321.97	280.18	41.79	7.705			
9,650.00	9,586.95	9,622.02	9,615.76	21.56	20.66	173.10	-154.98	29.92	359.27	317.39	41.88	8.578			
9,700.00	9,615.64	9,753.00	9,743.59	21.71	20.90	174.55	-128.05	29.79	393.57	352.93	40.64	9.684			
9,750.00	9,640.27	9,948.24	9,911.95	21.88	21.20	175.68	-31.47	29.33	419.42	383.71	35.71	11.745			
9,800.00	9,660.63	10,213.07	10,061.68	22.07	21.76	176.11	183.51	28.31	429.10	402.41	26.69	16.079			
9,850.00	9,676.51	10,412.75	10,094.00	22.29	22.52	175.88	379.36	27.38	418.99	395.00	23.99	17.464			
9,900.00	9,687.78	10,461.45	10,094.00	22.52	22.77	175.86	428.05	27.15	407.75	383.57	24.18	16.863			
9,950.00	9,694.33	10,511.00	10,094.00	22.77	23.03	175.85	477.60	26.91	401.22	376.84	24.38	16.458			
9,992.54	9,696.14	10,553.49	10,094.00	23.00	23.29	175.85	520.09	26.71	399.41	374.85	24.56	16.260			
10,000.00	9,696.15	10,560.94	10,094.00	23.05	23.34	175.85	527.55	26.68	399.40	374.80	24.60	16.238			
10,100.00	9,696.33	10,660.94	10,094.00	23.66	24.00	175.86	627.55	26.20	399.22	374.14	25.08	15.918			
10,200.00	9,696.50	10,760.94	10,094.00	24.36	24.76	175.86	727.55	25.73	399.04	373.40	25.64	15.563			
10,300.00	9,696.68	10,860.94	10,094.00	25.16	25.60	175.87	827.55	25.25	398.86	372.59	26.27	15.182			
10,400.00	9,696.85	10,960.94	10,094.00	26.03	26.51	175.87	927.55	24.77	398.68	371.71	26.97	14.781			
10,500.00	9,697.02	11,060.94	10,094.00	26.98	27.49	175.88	1,027.55	24.30	398.51	370.77	27.73	14.369			
10,600.00	9,697.20	11,160.94	10,094.00	27.98	28.53	175.89	1,127.55	23.82	398.33	369.78	28.55	13.951			
10,700.00	9,697.37	11,260.94	10,094.00	29.05	29.63	175.89	1,227.54	23.35	398.15	368.73	29.42	13.533			
10,800.00	9,697.55	11,360.94	10,094.00	30.17	30.77	175.90	1,327.54	22.87	397.97	367.63	30.34	13.118			
10,900.00	9,697.72	11,460.94	10,094.00	31.33	31.96	175.90	1,427.54	22.40	397.79	366.50	31.30	12.709			
11,000.00	9,697.90	11,560.94	10,094.00	32.53	33.18	175.91	1,527.54	21.92	397.62	365.32	32.30	12.310			
11,100.00	9,698.07	11,660.94	10,094.00	33.77	34.44	175.91	1,627.54	21.45	397.44	364.10	33.34	11.923			
11,200.00	9,698.25	11,760.94	10,094.00	35.04	35.73	175.92	1,727.54	20.97	397.26	362.86	34.40	11.547			
11,300.00	9,698.42	11,860.94	10,094.00	36.34	37.05	175.93	1,827.54	20.50	397.08	361.58	35.50	11.185			
11,400.00	9,698.60	11,960.94	10,094.00	37.67	38.39	175.93	1,927.53	20.02	396.90	360.28	36.63	10.836			
11,500.00	9,698.77	12,060.94	10,094.00	39.02	39.76	175.94	2,027.53	19.55	396.73	358.95	37.78	10.502			
11,600.00	9,698.94	12,160.94	10,094.00	40.40	41.14	175.94	2,127.53	19.07	396.55	357.60	38.95	10.181			
11,700.00	9,699.12	12,260.94	10,094.00	41.79	42.54	175.95	2,227.53	18.59	396.37	356.23	40.14	9.875			
11,800.00	9,699.29	12,360.94	10,094.00	43.20	43.96	175.96	2,327.53	18.12	396.19	354.84	41.35	9.581			
11,900.00	9,699.47	12,460.94	10,094.00	44.62	45.39	175.96	2,427.53	17.64	396.02	353.44	42.58	9.301			
12,000.00	9,699.64	12,560.94	10,094.00	46.06	46.84	175.97	2,527.53	17.17	395.84	352.01	43.82	9.033			
12,100.00	9,699.82	12,660.94	10,094.00	47.51	48.30	175.97	2,627.53	16.69	395.66	350.58	45.08	8.777			
12,200.00	9,699.99	12,760.94	10,094.00	48.97	49.77	175.98	2,727.52	16.22	395.48	349.13	46.35	8.532			
12,300.00	9,700.17	12,860.94	10,094.00	50.45	51.25	175.99	2,827.52	15.74	395.30	347.67	47.63	8.299			
12,400.00	9,700.34	12,960.94	10,094.00	51.93	52.74	175.99	2,927.52	15.27	395.13	346.20	48.93	8.076			
12,500.00	9,700.52	13,060.94	10,094.00	53.42	54.24	176.00	3,027.52	14.79	394.95	344.72	50.23	7.863			
12,600.00	9,700.69	13,160.94	10,094.00	54.92	55.74	176.00	3,127.52	14.32	394.77	343.23	51.54	7.659			
12,700.00	9,700.86	13,260.94	10,094.00	56.43	57.25	176.01	3,227.52	13.84	394.59	341.73	52.87	7.464			
12,800.00	9,701.04	13,360.94	10,094.00	57.95	58.77	176.02	3,327.52	13.36	394.41	340.22	54.20	7.278			
12,900.00	9,701.21	13,460.94	10,094.00	59.47	60.30	176.02	3,427.52	12.89	394.24	338.70	55.53	7.099			
13,000.00	9,701.39	13,560.94	10,094.00	61.00	61.83	176.03	3,527.51	12.41	394.06	337.18	56.88	6.928			
13,100.00	9,701.56	13,660.94	10,094.00	62.53	63.37	176.03	3,627.51	11.94	393.88	335.65	58.23	6.764			
13,200.00	9,701.74	13,760.94	10,094.00	64.07	64.91	176.04	3,727.51	11.46	393.70	334.12	59.59	6.607			
13,300.00	9,701.91	13,860.94	10,094.00	65.61	66.46	176.05	3,827.51	10.99	393.53	332.58	60.95	6.457			
13,400.00	9,702.09	13,960.94	10,094.00	67.16	68.01	176.05	3,927.51	10.51	393.35	331.03	62.32	6.312			
13,500.00	9,702.26	14,060.94	10,094.00	68.71	69.56	176.06	4,027.51	10.04	393.17	329.48	63.69	6.173			
13,600.00	9,702.44	14,160.94	10,094.00	70.27	71.12	176.06	4,127.51	9.56	392.99	327.93	65.07	6.040			
13,700.00	9,702.61	14,260.94	10,094.00	71.83	72.68	176.07	4,227.51	9.09	392.81	326.37	66.45	5.912			
13,800.00	9,702.78	14,360.94	10,094.00	73.39	74.25	176.08	4,327.50	8.61	392.64	324.80	67.83	5.788			
13,900.00	9,702.96	14,460.94	10,094.00	74.96	75.81	176.08	4,427.50	8.13	392.46	323.24	69.22	5.669			
14,000.00	9,703.13	14,560.94	10,094.00	76.52	77.39	176.09	4,527.50	7.66	392.28	321.67	70.62	5.555			

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
Project: Lea County, NM (NAD-83)
Reference Site: Thistle Unit
Site Error: 0.00 usft
Reference Well: 102H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Plan #1

Local Co-ordinate Reference: Well 102H
TVD Reference: 3637.8' GE + 23.5' KB @ 3664.30usft (Original Well Elev)
MD Reference: 3637.8' GE + 23.5' KB @ 3664.30usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM 5000.1 Multi User Db
Offset TVD Reference: Offset Datum

Offset Design Thistle Unit - 138H - OH - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-LEAM MWD+HDGM													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)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.00	9,703.31	14,660.94	10,094.00	78.10	78.96	176.09	4,627.50	7.18	392.10	320.09	72.01	5.445		
14,200.00	9,703.48	14,760.94	10,094.00	79.67	80.54	176.10	4,727.50	6.71	391.93	318.51	73.41	5.339		
14,300.00	9,703.66	14,860.94	10,094.00	81.25	82.11	176.11	4,827.50	6.23	391.75	316.93	74.81	5.236		
14,400.00	9,703.83	14,960.94	10,094.00	82.83	83.69	176.11	4,927.50	5.76	391.57	315.35	76.22	5.137		
14,500.00	9,704.01	15,060.94	10,094.00	84.41	85.28	176.12	5,027.49	5.28	391.39	313.77	77.63	5.042		
14,600.00	9,704.18	15,160.94	10,094.00	85.99	86.86	176.12	5,127.49	4.81	391.21	312.18	79.04	4.950		
14,700.00	9,704.35	15,260.94	10,094.00	87.58	88.45	176.13	5,227.49	4.33	391.04	310.59	80.45	4.861		
14,800.00	9,704.53	15,360.94	10,094.00	89.16	90.04	176.14	5,327.49	3.86	390.86	309.00	81.86	4.775		
14,900.00	9,704.70	15,460.94	10,094.00	90.75	91.63	176.14	5,427.49	3.38	390.68	307.40	83.28	4.691		
15,000.00	9,704.88	15,560.94	10,094.00	92.34	93.22	176.15	5,527.49	2.91	390.50	305.80	84.70	4.610		
15,100.00	9,705.05	15,660.94	10,094.00	93.94	94.81	176.16	5,627.49	2.43	390.33	304.21	86.12	4.532		
15,200.00	9,705.23	15,760.94	10,094.00	95.53	96.41	176.16	5,727.49	1.95	390.15	302.61	87.54	4.457		
15,300.00	9,705.40	15,860.94	10,094.00	97.13	98.00	176.17	5,827.48	1.48	389.97	301.00	88.97	4.383		
15,400.00	9,705.58	15,960.94	10,094.00	98.72	99.60	176.17	5,927.48	1.00	389.79	299.40	90.39	4.312		
15,500.00	9,705.75	16,060.94	10,094.00	100.32	101.20	176.18	6,027.48	0.53	389.61	297.79	91.82	4.243		
15,600.00	9,705.93	16,160.94	10,094.00	101.92	102.80	176.19	6,127.48	0.05	389.44	296.19	93.25	4.176		
15,700.00	9,706.10	16,260.94	10,094.00	103.52	104.40	176.19	6,227.48	-0.42	389.26	294.58	94.68	4.111		
15,800.00	9,706.27	16,360.94	10,094.00	105.12	106.01	176.20	6,327.48	-0.90	389.08	292.97	96.11	4.048		
15,900.00	9,706.45	16,460.94	10,094.00	106.72	107.61	176.20	6,427.48	-1.37	388.90	291.36	97.54	3.987		
16,000.00	9,706.62	16,560.94	10,094.00	108.33	109.21	176.21	6,527.48	-1.85	388.73	289.75	98.98	3.927		
16,100.00	9,706.80	16,660.93	10,094.00	109.93	110.82	176.22	6,627.47	-2.32	388.55	288.14	100.41	3.870		
16,200.00	9,706.97	16,760.93	10,094.00	111.54	112.43	176.22	6,727.47	-2.80	388.37	286.52	101.85	3.813		
16,300.00	9,707.15	16,860.93	10,094.00	113.14	114.03	176.23	6,827.47	-3.28	388.19	284.91	103.29	3.758		
16,400.00	9,707.32	16,960.93	10,094.00	114.75	115.64	176.24	6,927.47	-3.75	388.02	283.29	104.72	3.705		
16,500.00	9,707.50	17,060.93	10,094.00	116.36	117.25	176.24	7,027.47	-4.23	387.84	281.67	106.16	3.653		
16,600.00	9,707.67	17,160.93	10,094.00	117.97	118.86	176.25	7,127.47	-4.70	387.66	280.06	107.60	3.603		
16,700.00	9,707.85	17,260.93	10,094.00	119.58	120.47	176.25	7,227.47	-5.18	387.48	278.44	109.05	3.553		
16,800.00	9,708.02	17,360.93	10,094.00	121.19	122.08	176.26	7,327.46	-5.65	387.30	276.82	110.49	3.505		
16,900.00	9,708.19	17,460.93	10,094.00	122.80	123.69	176.27	7,427.46	-6.13	387.13	275.20	111.93	3.459		
17,000.00	9,708.37	17,560.93	10,094.00	124.41	125.31	176.27	7,527.46	-6.60	386.95	273.58	113.37	3.413		
17,100.00	9,708.54	17,660.93	10,094.00	126.02	126.92	176.28	7,627.46	-7.08	386.77	271.95	114.82	3.369		
17,200.00	9,708.72	17,760.93	10,094.00	127.64	128.53	176.29	7,727.46	-7.55	386.59	270.33	116.26	3.325		
17,204.92	9,708.73	17,765.85	10,094.00	127.72	128.61	176.29	7,732.38	-7.58	386.59	270.25	116.33	3.323		
17,300.00	9,708.89	17,766.30	10,094.00	129.25	128.62	176.29	7,732.83	-7.58	397.83	284.17	113.67	3.500		
17,400.00	9,709.07	17,766.30	10,094.00	130.86	128.62	176.29	7,732.83	-7.58	432.51	326.01	106.50	4.061		
17,500.00	9,709.24	17,766.30	10,094.00	132.48	128.62	176.29	7,732.83	-7.58	485.64	387.88	97.77	4.967		
17,600.00	9,709.42	17,766.30	10,094.00	134.09	128.62	176.29	7,732.83	-7.58	551.94	462.39	89.56	6.163		
17,700.00	9,709.59	17,766.30	10,094.00	135.71	128.62	176.29	7,732.83	-7.58	627.24	544.56	82.68	7.586		
17,800.00	9,709.77	17,766.30	10,094.00	137.33	128.62	176.29	7,732.83	-7.58	708.67	631.47	77.21	9.179		
17,900.00	9,709.94	17,766.30	10,094.00	138.94	128.62	176.29	7,732.83	-7.58	794.36	721.43	72.93	10.892		
18,000.00	9,710.11	17,766.30	10,094.00	140.56	128.62	176.29	7,732.83	-7.58	883.06	813.45	69.61	12.686		
18,100.00	9,710.29	17,766.30	10,094.00	142.18	128.62	176.29	7,732.83	-7.58	973.95	906.93	67.02	14.531		
18,200.00	9,710.46	17,766.30	10,094.00	143.80	128.62	176.29	7,732.83	-7.58	1,066.48	1,001.48	65.00	16.408		
18,300.00	9,710.64	17,766.30	10,094.00	145.42	128.62	176.29	7,732.83	-7.58	1,160.24	1,096.84	63.40	18.302		
18,400.00	9,710.81	17,766.30	10,094.00	147.04	128.62	176.29	7,732.83	-7.58	1,254.97	1,192.85	62.12	20.201		
18,500.00	9,710.99	17,766.30	10,094.00	148.65	128.62	176.29	7,732.83	-7.58	1,350.46	1,289.35	61.11	22.100		
18,600.00	9,711.16	17,766.30	10,094.00	150.27	128.62	176.29	7,732.83	-7.58	1,446.56	1,386.27	60.29	23.995		
18,700.00	9,711.34	17,766.30	10,094.00	151.90	128.62	176.29	7,732.83	-7.58	1,543.15	1,483.53	59.62	25.881		
18,800.00	9,711.51	17,766.30	10,094.00	153.52	128.62	176.29	7,732.83	-7.58	1,640.15	1,581.06	59.09	27.758		
18,900.00	9,711.69	17,766.30	10,094.00	155.14	128.62	176.29	7,732.83	-7.58	1,737.50	1,678.84	58.65	29.624		

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 102H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3637.8' GE + 23.5' KB @ 3664.30usft (Original Well Elev)
Reference Site:	Thistle Unit	MD Reference:	3637.8' GE + 23.5' KB @ 3664.30usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	102H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Multi User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Thistle Unit - 138H - OH - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-LEAM MWD+HDGM													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)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
19,000.00	9,711.86	17,766.30	10,094.00	156.76	128.62	176.29	7,732.83	-7.58	1,835.12	1,776.82	58.30	31.478		
19,100.00	9,712.03	17,766.30	10,094.00	158.38	128.62	176.29	7,732.83	-7.58	1,932.99	1,874.98	58.01	33.320		
19,200.00	9,712.21	17,766.30	10,094.00	160.00	128.62	176.29	7,732.83	-7.58	2,031.07	1,973.29	57.78	35.150		
19,300.00	9,712.38	17,766.30	10,094.00	161.62	128.62	176.29	7,732.83	-7.58	2,129.33	2,071.73	57.60	36.968		
19,400.00	9,712.56	17,766.30	10,094.00	163.25	128.62	176.29	7,732.83	-7.58	2,227.74	2,170.29	57.45	38.775		
19,500.00	9,712.73	17,766.30	10,094.00	164.87	128.62	176.29	7,732.83	-7.58	2,326.29	2,268.95	57.34	40.569		
19,600.00	9,712.91	17,766.30	10,094.00	166.49	128.62	176.29	7,732.83	-7.58	2,424.96	2,367.70	57.26	42.352		
19,700.00	9,713.08	17,766.30	10,094.00	168.12	128.62	176.29	7,732.83	-7.58	2,523.73	2,466.53	57.20	44.123		
19,800.00	9,713.26	17,766.30	10,094.00	169.74	128.62	176.29	7,732.83	-7.58	2,622.59	2,565.43	57.16	45.883		
19,900.00	9,713.43	17,766.30	10,094.00	171.36	128.62	176.29	7,732.83	-7.58	2,721.54	2,664.40	57.14	47.632		
20,000.00	9,713.61	17,766.30	10,094.00	172.99	128.62	176.29	7,732.83	-7.58	2,820.56	2,763.43	57.13	49.370		
20,100.00	9,713.78	17,766.30	10,094.00	174.61	128.62	176.29	7,732.83	-7.58	2,919.65	2,862.51	57.14	51.097		
20,200.00	9,713.95	17,766.30	10,094.00	176.24	128.62	176.29	7,732.83	-7.58	3,018.80	2,961.64	57.16	52.814		
20,300.00	9,714.13	17,766.30	10,094.00	177.86	128.62	176.29	7,732.83	-7.58	3,118.00	3,060.81	57.19	54.520		
20,400.00	9,714.30	17,766.30	10,094.00	179.49	128.62	176.29	7,732.83	-7.58	3,217.25	3,160.02	57.23	56.216		
20,500.00	9,714.48	17,766.30	10,094.00	181.11	128.62	176.29	7,732.83	-7.58	3,316.55	3,259.27	57.28	57.902		
20,600.00	9,714.65	17,766.30	10,094.00	182.74	128.62	176.29	7,732.83	-7.58	3,415.89	3,358.55	57.33	59.579		
20,700.00	9,714.83	17,766.30	10,094.00	184.36	128.62	176.29	7,732.83	-7.58	3,515.26	3,457.87	57.40	61.245		
20,800.00	9,715.00	17,766.30	10,094.00	185.99	128.62	176.29	7,732.83	-7.58	3,614.67	3,557.21	57.47	62.902		
20,900.00	9,715.18	17,766.30	10,094.00	187.61	128.62	176.29	7,732.83	-7.58	3,714.12	3,656.58	57.54	64.549		
21,000.00	9,715.35	17,766.30	10,094.00	189.24	128.62	176.29	7,732.83	-7.58	3,813.59	3,755.97	57.62	66.187		
21,100.00	9,715.52	17,766.30	10,094.00	190.87	128.62	176.29	7,732.83	-7.58	3,913.09	3,855.38	57.70	67.815		
21,200.00	9,715.70	17,766.30	10,094.00	192.49	128.62	176.29	7,732.83	-7.58	4,012.61	3,954.82	57.79	69.434		
21,300.00	9,715.87	17,766.30	10,094.00	194.12	128.62	176.29	7,732.83	-7.58	4,112.15	4,054.27	57.88	71.044		
21,400.00	9,716.05	17,766.30	10,094.00	195.75	128.62	176.29	7,732.83	-7.58	4,211.72	4,153.75	57.98	72.645		
21,500.00	9,716.22	17,766.30	10,094.00	197.37	128.62	176.29	7,732.83	-7.58	4,311.31	4,253.24	58.07	74.237		
21,600.00	9,716.40	17,766.30	10,094.00	199.00	128.62	176.29	7,732.83	-7.58	4,410.92	4,352.74	58.18	75.820		
21,700.00	9,716.57	17,766.30	10,094.00	200.63	128.62	176.29	7,732.83	-7.58	4,510.54	4,452.26	58.28	77.394		
21,800.00	9,716.75	17,766.30	10,094.00	202.26	128.62	176.29	7,732.83	-7.58	4,610.18	4,551.79	58.39	78.960		
21,900.00	9,716.92	17,766.30	10,094.00	203.89	128.62	176.29	7,732.83	-7.58	4,709.84	4,651.34	58.50	80.516		
22,000.00	9,717.10	17,766.30	10,094.00	205.51	128.62	176.29	7,732.83	-7.58	4,809.50	4,750.90	58.61	82.064		
22,100.00	9,717.27	17,766.30	10,094.00	207.14	128.62	176.29	7,732.83	-7.58	4,909.19	4,850.47	58.72	83.604		
22,200.00	9,717.44	17,766.30	10,094.00	208.77	128.62	176.29	7,732.83	-7.58	5,008.88	4,950.05	58.83	85.135		
22,300.00	9,717.62	17,766.30	10,094.00	210.40	128.62	176.29	7,732.83	-7.58	5,108.59	5,049.64	58.95	86.657		
22,400.00	9,717.79	17,766.30	10,094.00	212.03	128.62	176.29	7,732.83	-7.58	5,208.31	5,149.24	59.07	88.171		
22,500.00	9,717.97	17,766.30	10,094.00	213.66	128.62	176.29	7,732.83	-7.58	5,308.04	5,248.85	59.19	89.677		
22,600.00	9,718.14	17,766.30	10,094.00	215.28	128.62	176.29	7,732.83	-7.58	5,407.78	5,348.47	59.31	91.174		
22,700.00	9,718.32	17,766.30	10,094.00	216.91	128.62	176.29	7,732.83	-7.58	5,507.53	5,448.09	59.44	92.664		
22,800.00	9,718.49	17,766.30	10,094.00	218.54	128.62	176.29	7,732.83	-7.58	5,607.28	5,547.72	59.56	94.145		
22,900.00	9,718.67	17,766.30	10,094.00	220.17	128.62	176.29	7,732.83	-7.58	5,707.05	5,647.37	59.69	95.618		
23,000.00	9,718.84	17,766.30	10,094.00	221.80	128.62	176.29	7,732.83	-7.58	5,806.83	5,747.01	59.81	97.083		
23,100.00	9,719.02	17,766.30	10,094.00	223.43	128.62	176.29	7,732.83	-7.58	5,906.61	5,846.67	59.94	98.540		
23,200.00	9,719.19	17,766.30	10,094.00	225.06	128.62	176.29	7,732.83	-7.58	6,006.40	5,946.33	60.07	99.988		
23,300.00	9,719.36	17,766.30	10,094.00	226.69	128.62	176.29	7,732.83	-7.58	6,106.19	6,045.99	60.20	101.430		
23,400.00	9,719.54	17,766.30	10,094.00	228.32	128.62	176.29	7,732.83	-7.58	6,206.00	6,145.66	60.33	102.863		
23,500.00	9,719.71	17,766.30	10,094.00	229.95	128.62	176.29	7,732.83	-7.58	6,305.80	6,245.34	60.47	104.288		
23,600.00	9,719.89	17,766.30	10,094.00	231.58	128.62	176.29	7,732.83	-7.58	6,405.62	6,345.02	60.60	105.706		
23,700.00	9,720.06	17,766.30	10,094.00	233.21	128.62	176.29	7,732.83	-7.58	6,505.44	6,444.71	60.73	107.115		
23,800.00	9,720.24	17,766.30	10,094.00	234.84	128.62	176.29	7,732.83	-7.58	6,605.27	6,544.40	60.87	108.518		
23,900.00	9,720.41	17,766.30	10,094.00	236.47	128.62	176.29	7,732.83	-7.58	6,705.10	6,644.09	61.00	109.912		
24,000.00	9,720.59	17,766.30	10,094.00	238.10	128.62	176.29	7,732.83	-7.58	6,804.93	6,743.79	61.14	111.299		

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 102H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3637.8' GE + 23.5' KB @ 3664.30usft (Original Well Elev)
Reference Site:	Thistle Unit	MD Reference:	3637.8' GE + 23.5' KB @ 3664.30usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	102H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Multi User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Thistle Unit - 138H - OH - Plan #1													Offset Site Error: 0.00 usft
Survey Program: 0-LEAM MWD+HDGM													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance				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)	Minimum Separation (usft)	Separation Factor	
24,100.00	9,720.76	17,766.30	10,094.00	239.73	128.62	176.29	7,732.83	-7.58	6,904.77	6,843.50	61.28	112.679	
24,200.00	9,720.94	17,766.30	10,094.00	241.36	128.62	176.29	7,732.83	-7.58	7,004.62	6,943.20	61.42	114.051	
24,300.00	9,721.11	17,766.30	10,094.00	242.99	128.62	176.29	7,732.83	-7.58	7,104.47	7,042.91	61.56	115.415	
24,400.00	9,721.28	17,766.30	10,094.00	244.62	128.62	176.29	7,732.83	-7.58	7,204.32	7,142.63	61.70	116.772	
24,500.00	9,721.46	17,766.30	10,094.00	246.25	128.62	176.29	7,732.83	-7.58	7,304.18	7,242.34	61.84	118.122	
24,600.00	9,721.63	17,766.30	10,094.00	247.88	128.62	176.29	7,732.83	-7.58	7,404.04	7,342.07	61.98	119.464	
24,700.00	9,721.81	17,766.30	10,094.00	249.51	128.62	176.29	7,732.83	-7.58	7,503.91	7,441.79	62.12	120.800	
24,800.00	9,721.98	17,766.30	10,094.00	251.14	128.62	176.29	7,732.83	-7.58	7,603.78	7,541.52	62.26	122.127	
24,810.04	9,722.00	17,766.30	10,094.00	251.31	128.62	176.29	7,732.83	-7.58	7,613.80	7,551.53	62.28	122.260	

LEAM Drilling Systems LLC

Anticollision Report

Company: Devon Energy
Project: Lea County, NM (NAD-83)
Reference Site: Thistle Unit
Site Error: 0.00 usft
Reference Well: 102H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Plan #1

Local Co-ordinate Reference: Well 102H
TVD Reference: 3637.8' GE + 23.5' KB @ 3664.30usft
 (Original Well Elev)
MD Reference: 3637.8' GE + 23.5' KB @ 3664.30usft
 (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM 5000.1 Multi User Db
Offset TVD Reference: Offset Datum

Offset Design Thistle Unit (Offsets) - 50H - OH - OH														Offset Site Error:	0.00 usft
Survey Program: 158- VES GyroFlex V2, 10541-MWD-ISCWSA														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)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
0.00	0.00	0.00	0.00	0.00	0.00	-76.47	61.12	-253.99	261.31						
100.00	100.00	94.02	94.01	0.09	0.08	-76.42	61.35	-253.91	261.22	261.05	0.17	1,553.002			
200.00	200.00	194.21	194.21	0.31	0.17	-76.25	62.06	-253.66	261.15	260.67	0.48	546.089			
300.00	300.00	294.49	294.49	0.54	0.25	-76.10	62.68	-253.33	260.97	260.19	0.78	336.556			
400.00	400.00	394.54	394.53	0.76	0.31	-76.05	62.83	-253.03	260.72	259.66	1.06	246.817			
500.00	500.00	494.01	494.01	0.99	0.36	-76.01	62.97	-252.82	260.54	259.22	1.33	196.341			
512.47	512.47	506.37	506.37	1.01	0.37	-76.01	62.98	-252.81	260.54	259.18	1.36	191.547			
600.00	600.00	593.51	593.50	1.21	0.40	-76.01	63.00	-252.89	260.62	259.03	1.59	163.966			
700.00	700.00	693.23	693.22	1.43	0.43	-76.07	62.81	-253.16	260.83	258.98	1.85	141.090			
800.00	800.00	793.55	793.54	1.66	0.46	-76.09	62.74	-253.41	261.06	258.95	2.11	123.945			
900.00	900.00	893.80	893.79	1.88	0.49	-76.06	62.89	-253.45	261.14	258.78	2.36	110.550			
1,000.00	1,000.00	992.32	992.31	2.11	0.52	-76.07	62.94	-253.73	261.43	258.81	2.62	99.893			
1,100.00	1,100.00	1,092.06	1,092.05	2.33	0.54	-76.10	62.96	-254.42	262.10	259.23	2.87	91.241			
1,200.00	1,200.00	1,193.38	1,193.37	2.56	0.57	-76.18	62.73	-254.93	262.53	259.40	3.13	83.955			
1,300.00	1,300.00	1,292.87	1,292.86	2.78	0.60	-76.29	62.28	-255.35	262.83	259.46	3.38	77.769			
1,400.00	1,400.00	1,392.38	1,392.36	3.01	0.62	-76.42	61.83	-255.94	263.31	259.67	3.63	72.484			
1,500.00	1,500.00	1,491.57	1,491.55	3.23	0.65	-76.50	61.65	-256.77	264.08	260.19	3.89	67.946			
1,600.00	1,600.00	1,591.54	1,591.52	3.46	0.68	-76.39	62.35	-257.51	264.97	260.83	4.14	63.992			
1,700.00	1,700.00	1,691.05	1,691.02	3.68	0.71	-76.30	63.00	-258.33	265.92	261.52	4.40	60.502			
1,800.00	1,800.00	1,790.87	1,790.83	3.91	0.74	-76.26	63.43	-259.49	267.14	262.49	4.65	57.441			
1,900.00	1,900.00	1,891.33	1,891.29	4.13	0.77	-76.16	64.12	-260.32	268.11	263.20	4.91	54.652			
2,000.00	2,000.00	1,991.30	1,991.25	4.36	0.81	-76.06	64.84	-261.21	269.15	263.99	5.16	52.150			
2,100.00	2,100.00	2,092.28	2,092.22	4.58	0.84	-76.02	65.24	-261.97	269.98	264.56	5.42	49.840			
2,200.00	2,200.00	2,193.32	2,193.26	4.81	0.87	-75.96	65.59	-262.32	270.40	264.73	5.67	47.687			
2,300.00	2,300.00	2,292.77	2,292.71	5.03	0.90	-75.91	65.91	-262.50	270.65	264.73	5.92	45.704			
2,400.00	2,400.00	2,392.90	2,392.84	5.26	0.93	-75.87	66.21	-262.92	271.13	264.96	6.18	43.895			
2,500.00	2,500.00	2,491.89	2,491.82	5.48	0.96	-75.83	66.49	-263.38	271.65	265.22	6.43	42.229			
2,600.00	2,600.00	2,594.14	2,594.07	5.71	0.98	-75.76	66.94	-263.75	272.11	265.43	6.68	40.742			
2,700.00	2,700.00	2,694.61	2,694.55	5.93	0.99	-75.70	67.16	-263.50	271.92	265.01	6.91	39.353			
2,800.00	2,800.00	2,794.95	2,794.88	6.15	1.00	-75.65	67.31	-263.15	271.62	264.48	7.14	38.058			
2,900.00	2,900.00	2,895.19	2,895.13	6.38	1.01	-75.59	67.49	-262.68	271.22	263.85	7.36	36.829			
3,000.00	3,000.00	2,995.64	2,995.57	6.60	1.02	-75.48	67.85	-262.02	270.67	263.07	7.59	35.645			
3,100.00	3,100.00	3,095.52	3,095.45	6.83	1.03	-75.35	68.30	-261.29	270.08	262.25	7.82	34.520			
3,200.00	3,200.00	3,195.71	3,195.63	7.05	1.04	-75.24	68.66	-260.59	269.49	261.44	8.05	33.459			
3,300.00	3,300.00	3,295.92	3,295.84	7.28	1.05	-75.10	69.09	-259.72	268.76	260.47	8.29	32.438			
3,400.00	3,400.00	3,395.57	3,395.48	7.50	1.07	-74.96	69.60	-258.94	268.13	259.62	8.52	31.479			
3,500.00	3,500.00	3,495.46	3,495.37	7.73	1.08	-74.76	70.34	-258.12	267.54	258.79	8.75	30.569			
3,600.00	3,600.00	3,596.12	3,596.02	7.95	1.10	-74.54	71.17	-257.31	266.98	257.99	8.99	29.710			
3,700.00	3,700.00	3,695.76	3,695.66	8.18	1.11	-74.45	71.33	-256.31	266.06	256.84	9.22	28.859			
3,800.00	3,800.00	3,795.42	3,795.32	8.40	1.13	-74.35	71.64	-255.76	265.61	256.16	9.45	28.099			
3,900.00	3,900.00	3,895.13	3,895.02	8.63	1.14	-74.30	71.71	-255.15	265.04	255.36	9.69	27.364			
4,000.00	4,000.00	3,998.21	3,998.10	8.85	1.16	-74.26	71.68	-254.34	264.28	254.36	9.92	26.645			
4,100.00	4,100.00	4,095.62	4,095.50	9.08	1.17	-74.20	71.57	-252.94	262.88	252.72	10.15	25.887			
4,200.00	4,200.00	4,194.74	4,194.62	9.30	1.18	-74.18	71.57	-252.64	262.58	252.19	10.39	25.274			
4,300.00	4,300.00	4,295.85	4,295.73	9.53	1.20	-74.14	71.63	-252.14	262.13	251.50	10.63	24.669			
4,400.00	4,400.00	4,399.66	4,399.52	9.75	1.21	-74.04	71.68	-250.63	260.74	249.88	10.86	24.006			
4,500.00	4,500.00	4,504.81	4,504.62	9.98	1.23	-73.93	71.21	-247.26	257.53	246.44	11.09	23.213			
4,600.00	4,600.00	4,607.26	4,606.96	10.20	1.24	-73.91	69.97	-242.59	252.82	241.49	11.33	22.316			
4,700.00	4,700.00	4,709.22	4,708.76	10.43	1.26	-73.94	68.32	-237.26	247.35	235.78	11.57	21.387			
4,800.00	4,800.00	4,812.54	4,811.84	10.65	1.27	-74.06	65.88	-230.64	240.53	228.73	11.80	20.388			
4,900.00	4,900.00	4,913.47	4,912.46	10.87	1.29	-74.31	62.73	-223.30	232.68	220.64	12.04	19.332			

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 102H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3637.8' GE + 23.5' KB @ 3664.30usft (Original Well Elev)
Reference Site:	Thistle Unit	MD Reference:	3637.8' GE + 23.5' KB @ 3664.30usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	102H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Multi User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Thistle Unit (Offsets) - 50H - OH - OH										Offset Site Error: 0.00 usft			
Survey Program: 158- VES GyroFlex V2, 10541-MWD-ISCWSA										Offset Well Error: 0.00 usft			
Reference		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)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	5,000.00	5,011.95	5,010.62	11.10	1.30	-74.73	59.07	-216.33	224.87	212.58	12.28	18.308	
5,100.00	5,100.00	5,109.92	5,108.33	11.32	1.32	-75.23	55.41	-210.23	217.88	205.35	12.53	17.387	
5,200.00	5,200.00	5,208.89	5,207.07	11.55	1.34	-75.77	51.89	-204.62	211.51	198.73	12.78	16.553	
5,300.00	5,300.00	5,308.35	5,306.34	11.77	1.35	-76.14	49.12	-199.02	205.37	192.35	13.02	15.768	
5,400.00	5,400.00	5,407.62	5,405.43	12.00	1.37	-76.42	46.75	-193.53	199.43	186.16	13.27	15.026	
5,500.00	5,500.00	5,506.54	5,504.18	12.22	1.39	-76.79	44.23	-188.48	193.87	180.35	13.52	14.337	
5,600.00	5,600.00	5,605.68	5,603.19	12.45	1.41	-77.22	41.69	-183.88	188.78	175.00	13.77	13.708	
5,700.00	5,700.00	5,704.18	5,701.58	12.67	1.43	-77.54	39.70	-179.69	184.19	170.16	14.02	13.134	
5,800.00	5,800.00	5,803.55	5,800.86	12.90	1.45	-77.88	37.81	-176.07	180.22	165.94	14.27	12.626	
5,900.00	5,900.00	5,903.47	5,900.69	13.12	1.47	-78.52	35.09	-172.71	176.37	161.85	14.52	12.145	
6,000.00	6,000.00	6,001.81	5,998.94	13.35	1.49	-79.28	32.17	-169.86	172.96	158.18	14.78	11.705	
6,100.00	6,100.00	6,100.95	6,098.02	13.57	1.50	-80.15	29.13	-167.73	170.29	155.27	15.03	11.333	
6,200.00	6,200.00	6,199.28	6,196.29	13.80	1.51	-80.96	26.45	-166.28	168.39	153.11	15.28	11.022	
6,300.00	6,300.00	6,298.52	6,295.50	14.02	1.53	-81.78	23.92	-165.49	167.21	151.69	15.52	10.771	
6,400.00	6,400.00	6,398.30	6,395.25	14.25	1.54	-82.54	21.59	-164.93	166.35	150.58	15.77	10.551	
6,500.00	6,500.00	6,498.56	6,495.49	14.47	1.55	-83.16	19.71	-164.31	165.49	149.49	16.01	10.339	
6,600.00	6,600.00	6,599.03	6,595.94	14.70	1.57	-83.88	17.51	-163.38	164.33	148.08	16.25	10.113	
6,700.00	6,700.00	6,698.83	6,695.71	14.92	1.58	-84.50	15.63	-162.42	163.18	146.69	16.49	9.894	
6,800.00	6,800.00	6,799.02	6,795.89	15.15	1.60	-84.99	14.16	-161.40	162.03	145.30	16.74	9.681	
6,900.00	6,900.00	6,899.44	6,896.29	15.37	1.62	-85.35	13.03	-160.14	160.68	143.70	16.98	9.462	
7,000.00	7,000.00	7,000.13	6,996.96	15.59	1.65	-85.76	11.77	-158.54	159.01	141.78	17.23	9.230	
7,100.00	7,100.00	7,100.49	7,097.28	15.82	1.67	-86.28	10.17	-156.53	156.90	139.42	17.47	8.979	
7,200.00	7,200.00	7,199.79	7,196.56	16.04	1.70	-86.76	8.75	-154.61	154.88	137.15	17.72	8.738	
7,300.00	7,300.00	7,299.72	7,296.46	16.27	1.72	-87.37	7.03	-153.12	153.30	135.33	17.97	8.530	
7,400.00	7,400.00	7,398.93	7,395.64	16.49	1.75	-87.99	5.32	-151.67	151.78	133.56	18.22	8.330	
7,500.00	7,500.00	7,500.16	7,496.85	16.72	1.77	-88.69	3.45	-150.35	150.42	131.96	18.46	8.149	
7,600.00	7,600.00	7,599.79	7,596.43	16.94	1.79	-89.67	0.86	-148.44	148.46	129.76	18.70	7.938	
7,700.00	7,700.00	7,699.87	7,696.47	17.17	1.82	-90.43	-1.10	-146.74	146.77	127.82	18.95	7.746	
7,800.00	7,800.00	7,798.89	7,795.46	17.39	1.84	-91.21	-3.07	-145.29	145.33	126.14	19.19	7.571	
7,900.00	7,900.00	7,899.38	7,895.93	17.62	1.87	-91.96	-4.94	-143.98	144.08	124.65	19.43	7.414	
8,000.00	8,000.00	7,998.76	7,995.28	17.84	1.89	-92.83	-7.06	-142.73	142.91	123.24	19.68	7.263	
8,100.00	8,100.00	8,098.76	8,095.24	18.07	1.92	-93.70	-9.16	-141.64	141.95	122.03	19.91	7.128	
8,200.00	8,200.00	8,198.52	8,194.99	18.29	1.94	-94.43	-10.89	-140.67	141.09	120.94	20.15	7.001	
8,300.00	8,300.00	8,298.43	8,294.89	18.52	1.97	-95.08	-12.43	-139.82	140.37	119.98	20.39	6.883	
8,400.00	8,400.00	8,398.42	8,394.84	18.74	1.99	-96.05	-14.72	-138.88	139.66	119.03	20.63	6.771	
8,500.00	8,500.00	8,498.13	8,494.51	18.97	2.01	-97.13	-17.26	-138.01	139.09	118.23	20.86	6.667	
8,600.00	8,600.00	8,597.81	8,594.17	19.19	2.04	-98.06	-19.47	-137.41	138.78	117.69	21.09	6.579	
8,682.87	8,682.87	8,680.43	8,676.77	19.38	2.05	-98.80	-21.21	-137.06	138.69	117.41	21.29	6.516	
8,700.00	8,700.00	8,697.49	8,693.83	19.42	2.06	-98.95	-21.57	-137.01	138.70	117.37	21.33	6.504	
8,800.00	8,800.00	8,797.37	8,793.69	19.64	2.08	-99.79	-23.61	-136.83	138.85	117.30	21.55	6.442	
8,900.00	8,900.00	8,897.98	8,894.27	19.87	2.10	-100.60	-25.54	-136.49	138.86	117.09	21.77	6.378	
9,000.00	9,000.00	8,998.38	8,994.66	20.09	2.13	-101.23	-26.96	-135.73	138.38	116.38	22.00	6.290	
9,075.70	9,075.70	9,073.32	9,069.60	20.26	2.14	-101.60	-27.77	-135.26	138.08	115.90	22.19	6.224 CC	
9,100.00	9,100.00	9,097.20	9,093.47	20.31	2.15	-101.74	-28.10	-135.23	138.12	115.87	22.25	6.208 ES	
9,175.27	9,175.27	9,172.03	9,168.29	20.48	2.16	-102.18	-29.22	-135.44	138.56	116.14	22.42	6.179	
9,200.00	9,199.99	9,196.76	9,193.02	20.54	2.16	-102.26	-29.54	-135.53	138.84	116.36	22.48	6.177 SF	
9,250.00	9,249.74	9,246.41	9,242.67	20.65	2.17	-104.20	-30.09	-135.72	140.26	117.69	22.57	6.215	
9,300.00	9,298.81	9,295.26	9,291.52	20.77	2.18	-107.68	-30.65	-135.95	143.31	120.67	22.64	6.329	
9,350.00	9,346.74	9,342.81	9,339.06	20.88	2.18	-112.27	-31.22	-136.20	148.83	126.13	22.71	6.555	
9,400.00	9,393.09	9,388.58	9,384.83	20.98	2.19	-117.43	-31.89	-136.49	157.85	135.09	22.77	6.934	

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 102H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3637.8' GE + 23.5' KB @ 3664.30usft (Original Well Elev)
Reference Site:	Thistle Unit	MD Reference:	3637.8' GE + 23.5' KB @ 3664.30usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	102H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Multi User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Thistle Unit (Offsets) - 50H - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 158- VES GyroFlex V2, 10541-MWD-ISCWSA													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Minimum Separation (usft)	Separation Factor	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Between Centres (usft)	Between Ellipses (usft)						
9,450.00	9,437.44	9,432.10	9,428.34	21.08	2.19	-122.54	-32.64	-136.79	171.28	148.44	22.84	7.501		
9,500.00	9,479.37	9,472.87	9,469.10	21.18	2.20	-127.12	-33.53	-137.09	189.72	166.80	22.92	8.278		
9,550.00	9,518.50	9,510.43	9,506.65	21.29	2.20	-130.83	-34.51	-137.37	213.35	190.33	23.01	9.270		
9,600.00	9,554.47	9,544.31	9,540.51	21.42	2.21	-133.42	-35.50	-137.74	241.99	218.87	23.12	10.466		
9,650.00	9,586.95	9,574.54	9,570.72	21.56	2.21	-134.84	-36.46	-138.19	275.17	251.94	23.22	11.848		
9,700.00	9,615.64	9,601.08	9,597.24	21.71	2.22	-135.00	-37.35	-138.68	312.30	288.98	23.31	13.395		
9,750.00	9,640.27	9,624.38	9,620.52	21.88	2.22	-133.83	-38.16	-139.11	352.71	329.32	23.38	15.085		
9,800.00	9,660.63	9,643.26	9,639.38	22.07	2.22	-130.73	-38.82	-139.41	395.80	372.36	23.44	16.887		
9,850.00	9,676.51	9,657.55	9,653.67	22.29	2.22	-124.91	-39.32	-139.62	441.03	417.55	23.49	18.779		
9,900.00	9,687.78	9,667.15	9,663.26	22.52	2.23	-114.99	-39.66	-139.75	487.85	464.33	23.52	20.741		
9,950.00	9,694.33	9,671.95	9,668.06	22.77	2.23	-99.31	-39.83	-139.81	535.72	512.17	23.55	22.750		
9,992.54	9,696.14	9,672.25	9,668.36	23.00	2.23	-81.59	-39.84	-139.82	576.88	553.31	23.56	24.482		
10,000.00	9,696.15	9,672.00	9,668.11	23.05	2.23	-81.49	-39.84	-139.81	584.11	560.55	23.57	24.787		
10,100.00	9,696.33	9,668.62	9,664.72	23.66	2.23	-80.13	-39.71	-139.77	681.55	657.96	23.59	28.889		
10,200.00	9,696.50	9,665.24	9,661.35	24.36	2.23	-78.80	-39.59	-139.73	779.63	756.01	23.62	33.011		
10,300.00	9,696.68	9,661.88	9,657.99	25.16	2.22	-77.47	-39.48	-139.68	878.13	854.48	23.64	37.144		
10,400.00	9,696.85	9,658.52	9,654.64	26.03	2.22	-76.17	-39.36	-139.63	976.92	953.25	23.67	41.281		
10,500.00	9,697.02	9,655.18	9,651.30	26.98	2.22	-74.88	-39.24	-139.59	1,075.92	1,052.23	23.69	45.418		
10,600.00	9,697.20	9,651.85	9,647.98	27.98	2.22	-73.61	-39.12	-139.54	1,175.08	1,151.37	23.71	49.553		
10,700.00	9,697.37	9,648.54	9,644.66	29.05	2.22	-72.36	-39.00	-139.49	1,274.37	1,250.63	23.74	53.682		
10,800.00	9,697.55	9,645.23	9,641.35	30.17	2.22	-71.13	-38.89	-139.44	1,373.75	1,349.98	23.77	57.805		
10,900.00	9,697.72	9,641.93	9,638.06	31.33	2.22	-69.92	-38.77	-139.39	1,473.21	1,449.41	23.79	61.919		
11,000.00	9,697.90	12,611.51	11,235.68	32.53	27.85	-172.84	1,527.36	-200.47	1,556.03	1,528.44	27.59	56.407		
11,099.92	9,698.07	12,708.00	11,235.27	33.77	29.47	-172.73	1,623.80	-203.71	1,555.80	1,526.96	28.84	53.945		
11,100.00	9,698.07	12,708.00	11,235.27	33.77	29.47	-172.73	1,623.80	-203.71	1,555.80	1,526.96	28.84	53.944		
11,200.00	9,698.25	12,775.67	11,235.85	35.04	30.61	-172.68	1,691.44	-205.33	1,556.77	1,526.84	29.93	52.016		
11,300.00	9,698.42	12,885.33	11,238.44	36.34	32.49	-172.65	1,801.05	-207.01	1,559.14	1,527.85	31.29	49.829		
11,400.00	9,698.60	13,043.00	11,236.60	37.67	35.24	-172.64	1,958.69	-207.78	1,557.27	1,524.30	32.96	47.242		
11,500.00	9,698.77	13,087.00	11,235.84	39.02	35.99	-172.63	2,002.69	-208.08	1,556.21	1,522.27	33.94	45.846		
11,503.62	9,698.78	13,111.39	11,235.69	39.07	36.41	-172.62	2,027.08	-208.35	1,555.89	1,521.77	34.13	45.593		
11,600.00	9,698.94	13,181.00	11,237.16	40.40	37.59	-172.59	2,096.65	-209.74	1,557.61	1,522.36	35.26	44.177		
11,700.00	9,699.12	13,264.00	11,240.03	41.79	39.02	-172.54	2,179.58	-211.86	1,560.94	1,524.42	36.52	42.743		
11,800.00	9,699.29	13,461.51	11,237.80	43.20	42.49	-172.37	2,376.97	-216.85	1,559.21	1,520.65	38.56	40.436		
11,900.00	9,699.47	13,523.57	11,236.32	44.62	43.56	-172.32	2,439.00	-218.33	1,556.96	1,517.24	39.72	39.194		
11,950.59	9,699.56	13,559.00	11,236.19	45.35	44.17	-172.29	2,474.41	-219.31	1,556.81	1,516.47	40.34	38.589		
12,000.00	9,699.64	13,559.00	11,236.19	46.06	44.17	-172.29	2,474.41	-219.31	1,557.59	1,516.89	40.70	38.266		
12,100.00	9,699.82	13,653.00	11,239.00	47.51	45.77	-172.19	2,568.28	-222.91	1,560.86	1,518.76	42.10	37.075		
12,200.00	9,699.99	13,715.81	11,242.48	48.97	46.84	-172.10	2,630.91	-226.11	1,566.36	1,523.08	43.28	36.191		
12,300.00	9,700.17	13,874.06	11,247.58	50.45	49.57	-171.78	2,788.74	-236.10	1,570.08	1,524.85	45.24	34.706		
12,400.00	9,700.34	13,956.24	11,249.39	51.93	50.98	-171.62	2,870.74	-241.32	1,572.93	1,526.31	46.62	33.739		
12,500.00	9,700.52	14,068.25	11,252.82	53.42	52.88	-171.45	2,982.56	-246.84	1,576.52	1,528.31	48.22	32.696		
12,600.00	9,700.69	14,211.40	11,253.17	54.92	55.37	-171.21	3,125.52	-254.06	1,577.09	1,527.02	50.07	31.497		
12,700.00	9,700.86	14,312.93	11,252.19	56.43	57.13	-170.99	3,226.83	-260.65	1,576.89	1,525.24	51.66	30.527		
12,800.00	9,701.04	14,434.13	11,248.64	57.95	59.23	-170.73	3,347.76	-267.82	1,574.42	1,521.02	53.40	29.484		
12,866.01	9,701.15	14,476.00	11,248.26	58.95	59.95	-170.69	3,389.61	-268.93	1,573.94	1,519.71	54.24	29.019		
12,900.00	9,701.21	14,503.11	11,248.35	59.47	60.41	-170.68	3,416.72	-269.26	1,574.04	1,519.34	54.70	28.777		
13,000.00	9,701.39	14,585.77	11,249.34	61.00	61.81	-170.70	3,499.37	-269.19	1,574.97	1,518.93	56.04	28.104		
13,100.00	9,701.56	14,666.00	11,251.80	62.53	63.17	-170.80	3,579.53	-267.31	1,577.34	1,520.02	57.32	27.519		
13,200.00	9,701.74	14,769.14	11,255.74	64.07	64.94	-170.97	3,682.52	-263.47	1,580.29	1,521.58	58.71	26.918		
13,300.00	9,701.91	14,880.89	11,259.15	65.61	66.86	-171.15	3,794.15	-259.41	1,582.50	1,522.35	60.15	26.308		
13,400.00	9,702.09	14,995.74	11,261.80	67.16	68.85	-171.33	3,908.89	-255.28	1,584.01	1,522.39	61.62	25.706		

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 102H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3637.8' GE + 23.5' KB @ 3664.30usft (Original Well Elev)
Reference Site:	Thistle Unit	MD Reference:	3637.8' GE + 23.5' KB @ 3664.30usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	102H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Multi User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Thistle Unit (Offsets) - 50H - OH - OH														Offset Site Error: 0.00 usft	
Survey Program: 158- VES GyroFlex V2, 10541-MWD-ISCWSA														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)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
13,500.00	9,702.26	15,083.04	11,263.18	68.71	70.35	-171.46	3,996.13	-252.30	1,584.89	1,521.96	62.93	25.185			
13,800.00	9,702.44	15,152.74	11,265.71	70.27	71.53	-171.55	4,065.76	-250.25	1,587.75	1,523.62	64.12	24.761			
13,700.00	9,702.61	15,254.20	11,269.85	71.83	73.25	-171.67	4,167.10	-247.98	1,591.22	1,525.69	65.53	24.281			
13,800.00	9,702.78	15,343.22	11,273.62	73.39	74.77	-171.69	4,256.04	-248.21	1,595.21	1,528.30	66.91	23.840			
13,900.00	9,702.96	15,450.81	11,277.97	74.96	76.63	-171.67	4,363.53	-249.98	1,599.21	1,530.74	68.47	23.356			
14,000.00	9,703.13	15,560.34	11,281.84	76.52	78.53	-171.65	4,472.97	-251.59	1,602.69	1,532.65	70.04	22.881			
14,100.00	9,703.31	15,669.24	11,284.79	78.10	80.42	-171.57	4,581.79	-254.64	1,605.54	1,533.89	71.65	22.407			
14,200.00	9,703.48	15,781.42	11,287.05	79.67	82.38	-171.46	4,693.88	-258.52	1,607.82	1,534.51	73.32	21.930			
14,300.00	9,703.66	15,896.30	11,288.05	81.25	84.41	-171.34	4,808.68	-262.66	1,608.95	1,533.94	75.01	21.449			
14,400.00	9,703.83	15,903.00	11,288.09	82.83	84.53	-171.33	4,815.38	-262.91	1,612.58	1,536.80	75.78	21.280			
14,500.00	9,704.01	15,903.00	11,288.09	84.41	84.53	-171.33	4,815.38	-262.91	1,622.36	1,546.10	76.26	21.275			
14,600.00	9,704.18	15,903.00	11,288.09	85.99	84.53	-171.33	4,815.38	-262.91	1,638.20	1,561.70	76.50	21.415			
14,700.00	9,704.35	15,903.00	11,288.09	87.58	84.53	-171.33	4,815.38	-262.91	1,659.92	1,583.41	76.51	21.695			
14,800.00	9,704.53	15,903.00	11,288.09	89.16	84.53	-171.33	4,815.38	-262.91	1,687.30	1,610.98	76.32	22.108			
14,900.00	9,704.70	15,903.00	11,288.09	90.75	84.53	-171.33	4,815.38	-262.91	1,720.06	1,644.12	75.94	22.651			
15,000.00	9,704.88	15,903.00	11,288.09	92.34	84.53	-171.33	4,815.38	-262.91	1,757.91	1,682.52	75.39	23.316			
15,100.00	9,705.05	15,903.00	11,288.09	93.94	84.53	-171.33	4,815.38	-262.91	1,800.52	1,725.81	74.71	24.099			
15,200.00	9,705.23	15,903.00	11,288.09	95.53	84.53	-171.33	4,815.38	-262.91	1,847.57	1,773.65	73.92	24.993			
15,300.00	9,705.40	15,903.00	11,288.09	97.13	84.53	-171.33	4,815.38	-262.91	1,898.73	1,825.68	73.05	25.992			
15,400.00	9,705.58	15,903.00	11,288.09	98.72	84.53	-171.33	4,815.38	-262.91	1,953.66	1,881.55	72.11	27.091			
15,500.00	9,705.75	15,903.00	11,288.09	100.32	84.53	-171.33	4,815.38	-262.91	2,012.07	1,940.94	71.14	28.285			
15,600.00	9,705.93	15,903.00	11,288.09	101.92	84.53	-171.33	4,815.38	-262.91	2,073.66	2,003.53	70.13	29.567			
15,700.00	9,706.10	15,903.00	11,288.09	103.52	84.53	-171.33	4,815.38	-262.91	2,138.16	2,069.04	69.12	30.934			
15,800.00	9,706.27	15,903.00	11,288.09	105.12	84.53	-171.33	4,815.38	-262.91	2,205.30	2,137.19	68.11	32.379			
15,900.00	9,706.45	15,903.00	11,288.09	106.72	84.53	-171.33	4,815.38	-262.91	2,274.86	2,207.75	67.11	33.898			
16,000.00	9,706.62	15,903.00	11,288.09	108.33	84.53	-171.33	4,815.38	-262.91	2,346.62	2,280.49	66.13	35.486			
16,100.00	9,706.80	15,903.00	11,288.09	109.93	84.53	-171.33	4,815.38	-262.91	2,420.39	2,355.22	65.17	37.139			
16,200.00	9,706.97	15,903.00	11,288.09	111.54	84.53	-171.33	4,815.38	-262.91	2,495.98	2,431.74	64.24	38.853			
16,300.00	9,707.15	15,903.00	11,288.09	113.14	84.53	-171.33	4,815.38	-262.91	2,573.24	2,509.89	63.34	40.624			
16,400.00	9,707.32	15,903.00	11,288.09	114.75	84.53	-171.33	4,815.38	-262.91	2,652.02	2,589.54	62.48	42.447			
16,500.00	9,707.50	15,903.00	11,288.09	116.36	84.53	-171.33	4,815.38	-262.91	2,732.18	2,670.53	61.65	44.319			
16,600.00	9,707.67	15,903.00	11,288.09	117.97	84.53	-171.33	4,815.38	-262.91	2,813.62	2,752.77	60.85	46.236			
16,700.00	9,707.85	15,903.00	11,288.09	119.58	84.53	-171.33	4,815.38	-262.91	2,896.22	2,836.13	60.09	48.196			
16,800.00	9,708.02	15,903.00	11,288.09	121.19	84.53	-171.33	4,815.38	-262.91	2,979.89	2,920.52	59.37	50.195			
16,900.00	9,708.19	15,903.00	11,288.09	122.80	84.53	-171.33	4,815.38	-262.91	3,064.54	3,005.82	58.71	52.194			
17,000.00	9,708.37	15,903.00	11,288.09	124.41	84.53	-171.33	4,815.38	-262.91	3,150.08	3,091.80	58.29	54.044			
17,100.00	9,708.54	15,903.00	11,288.09	126.02	84.53	-171.33	4,815.38	-262.91	3,236.46	3,178.58	57.88	55.917			
17,200.00	9,708.72	15,903.00	11,288.09	127.64	84.53	-171.33	4,815.38	-262.91	3,323.60	3,266.11	57.49	57.811			
17,300.00	9,708.89	15,903.00	11,288.09	129.25	84.53	-171.33	4,815.38	-262.91	3,411.44	3,354.32	57.12	59.723			
17,400.00	9,709.07	15,903.00	11,288.09	130.86	84.53	-171.33	4,815.38	-262.91	3,499.94	3,443.17	56.77	61.651			
17,500.00	9,709.24	15,903.00	11,288.09	132.48	84.53	-171.33	4,815.38	-262.91	3,589.04	3,532.60	56.44	63.594			
17,600.00	9,709.42	15,903.00	11,288.09	134.09	84.53	-171.33	4,815.38	-262.91	3,678.70	3,622.58	56.12	65.550			
17,700.00	9,709.59	15,903.00	11,288.09	135.71	84.53	-171.33	4,815.38	-262.91	3,768.88	3,713.06	55.82	67.518			
17,800.00	9,709.77	15,903.00	11,288.09	137.33	84.53	-171.33	4,815.38	-262.91	3,859.55	3,804.01	55.54	69.495			
17,900.00	9,709.94	15,903.00	11,288.09	138.94	84.53	-171.33	4,815.38	-262.91	3,950.67	3,895.40	55.27	71.481			
18,000.00	9,710.11	15,903.00	11,288.09	140.56	84.53	-171.33	4,815.38	-262.91	4,042.20	3,987.19	55.02	73.473			
18,100.00	9,710.29	15,903.00	11,288.09	142.18	84.53	-171.33	4,815.38	-262.91	4,134.13	4,079.35	54.78	75.472			
18,200.00	9,710.46	15,903.00	11,288.09	143.80	84.53	-171.33	4,815.38	-262.91	4,226.43	4,171.88	54.55	77.476			
18,300.00	9,710.64	15,903.00	11,288.09	145.42	84.53	-171.33	4,815.38	-262.91	4,319.06	4,264.73	54.34	79.484			
18,400.00	9,710.81	15,903.00	11,288.09	147.04	84.53	-171.33	4,815.38	-262.91	4,412.02	4,357.89	54.14	81.494			

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 102H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3637.8' GE + 23.5' KB @ 3664.30usft (Original Well Elev)
Reference Site:	Thistle Unit	MD Reference:	3637.8' GE + 23.5' KB @ 3664.30usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	102H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Multi User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Thistle Unit (Offsets) - 50H - OH - OH														Offset Site Error:	0.00 usft
Survey Program: 158- VES GyroFlex V2, 10541-MWD-ISCWSA														Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance				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)	Minimum Separation (usft)	Separation Factor			
18,500.00	9,710.99	15,903.00	11,288.09	148.65	84.53	-171.33	4,815.38	-262.91	4,505.29	4,451.33	53.95	83.506			
18,600.00	9,711.16	15,903.00	11,288.09	150.27	84.53	-171.33	4,815.38	-262.91	4,598.83	4,545.05	53.78	85.520			
18,700.00	9,711.34	15,903.00	11,288.09	151.90	84.53	-171.33	4,815.38	-262.91	4,692.84	4,639.03	53.61	87.533			
18,800.00	9,711.51	15,903.00	11,288.09	153.52	84.53	-171.33	4,815.38	-262.91	4,786.70	4,733.25	53.45	89.546			
18,900.00	9,711.69	15,903.00	11,288.09	155.14	84.53	-171.33	4,815.38	-262.91	4,881.00	4,827.69	53.31	91.558			
19,000.00	9,711.86	15,903.00	11,288.09	156.76	84.53	-171.33	4,815.38	-262.91	4,975.52	4,922.34	53.18	93.569			
19,100.00	9,712.03	15,903.00	11,288.09	158.38	84.53	-171.33	4,815.38	-262.91	5,070.25	5,017.20	53.05	95.576			
19,200.00	9,712.21	15,903.00	11,288.09	160.00	84.53	-171.33	4,815.38	-262.91	5,165.18	5,112.25	52.93	97.581			
19,300.00	9,712.38	15,903.00	11,288.09	161.62	84.53	-171.33	4,815.38	-262.91	5,260.30	5,207.47	52.82	99.582			
19,400.00	9,712.56	15,903.00	11,288.09	163.25	84.53	-171.33	4,815.38	-262.91	5,355.59	5,302.87	52.72	101.579			
19,500.00	9,712.73	15,903.00	11,288.09	164.87	84.53	-171.33	4,815.38	-262.91	5,451.05	5,398.42	52.63	103.571			
19,600.00	9,712.91	15,903.00	11,288.09	166.49	84.53	-171.33	4,815.38	-262.91	5,546.68	5,494.13	52.55	105.559			
19,700.00	9,713.08	15,903.00	11,288.09	168.12	84.53	-171.33	4,815.38	-262.91	5,642.45	5,589.98	52.47	107.541			
19,800.00	9,713.26	15,903.00	11,288.09	169.74	84.53	-171.33	4,815.38	-262.91	5,738.37	5,685.97	52.40	109.517			
19,900.00	9,713.43	15,903.00	11,288.09	171.36	84.53	-171.33	4,815.38	-262.91	5,834.43	5,782.09	52.33	111.487			
20,000.00	9,713.61	15,903.00	11,288.09	172.99	84.53	-171.33	4,815.38	-262.91	5,930.61	5,878.34	52.27	113.451			
20,100.00	9,713.78	15,903.00	11,288.09	174.61	84.53	-171.33	4,815.38	-262.91	6,026.92	5,974.70	52.22	115.408			
20,200.00	9,713.95	15,903.00	11,288.09	176.24	84.53	-171.33	4,815.38	-262.91	6,123.35	6,071.18	52.18	117.358			
20,300.00	9,714.13	15,903.00	11,288.09	177.86	84.53	-171.33	4,815.38	-262.91	6,219.89	6,167.76	52.14	119.300			
20,400.00	9,714.30	15,903.00	11,288.09	179.49	84.53	-171.33	4,815.38	-262.91	6,316.54	6,264.44	52.10	121.235			
20,500.00	9,714.48	15,903.00	11,288.09	181.11	84.53	-171.33	4,815.38	-262.91	6,413.30	6,361.22	52.07	123.162			
20,600.00	9,714.65	15,903.00	11,288.09	182.74	84.53	-171.33	4,815.38	-262.91	6,510.15	6,458.10	52.05	125.080			
20,700.00	9,714.83	15,903.00	11,288.09	184.36	84.53	-171.33	4,815.38	-262.91	6,607.09	6,555.06	52.03	126.991			
20,800.00	9,715.00	15,903.00	11,288.09	185.99	84.53	-171.33	4,815.38	-262.91	6,704.12	6,652.11	52.01	128.893			
20,900.00	9,715.18	15,903.00	11,288.09	187.61	84.53	-171.33	4,815.38	-262.91	6,801.24	6,749.24	52.00	130.786			
21,000.00	9,715.35	15,903.00	11,288.09	189.24	84.53	-171.33	4,815.38	-262.91	6,898.45	6,846.45	52.00	132.671			
21,100.00	9,715.52	15,903.00	11,288.09	190.87	84.53	-171.33	4,815.38	-262.91	6,995.73	6,943.73	51.99	134.547			
21,200.00	9,715.70	15,903.00	11,288.09	192.49	84.53	-171.33	4,815.38	-262.91	7,093.08	7,041.09	52.00	136.413			
21,300.00	9,715.87	15,903.00	11,288.09	194.12	84.53	-171.33	4,815.38	-262.91	7,190.51	7,138.51	52.00	138.270			
21,400.00	9,716.05	15,903.00	11,288.09	195.75	84.53	-171.33	4,815.38	-262.91	7,288.01	7,236.00	52.01	140.118			
21,500.00	9,716.22	15,903.00	11,288.09	197.37	84.53	-171.33	4,815.38	-262.91	7,385.58	7,333.55	52.03	141.956			
21,600.00	9,716.40	15,903.00	11,288.09	199.00	84.53	-171.33	4,815.38	-262.91	7,483.21	7,431.16	52.04	143.785			
21,700.00	9,716.57	15,903.00	11,288.09	200.63	84.53	-171.33	4,815.38	-262.91	7,580.90	7,528.83	52.07	145.604			
21,800.00	9,716.75	15,903.00	11,288.09	202.26	84.53	-171.33	4,815.38	-262.91	7,678.65	7,626.56	52.09	147.414			
21,900.00	9,716.92	15,903.00	11,288.09	203.89	84.53	-171.33	4,815.38	-262.91	7,776.46	7,724.34	52.12	149.213			
22,000.00	9,717.10	15,903.00	11,288.09	205.51	84.53	-171.33	4,815.38	-262.91	7,874.32	7,822.18	52.15	151.003			
22,100.00	9,717.27	15,903.00	11,288.09	207.14	84.53	-171.33	4,815.38	-262.91	7,972.24	7,920.06	52.18	152.782			
22,200.00	9,717.44	15,903.00	11,288.09	208.77	84.53	-171.33	4,815.38	-262.91	8,070.21	8,017.99	52.22	154.552			
22,300.00	9,717.62	15,903.00	11,288.09	210.40	84.53	-171.33	4,815.38	-262.91	8,168.22	8,115.97	52.26	156.312			
22,400.00	9,717.79	15,903.00	11,288.09	212.03	84.53	-171.33	4,815.38	-262.91	8,266.29	8,213.99	52.30	158.061			
22,500.00	9,717.97	15,903.00	11,288.09	213.66	84.53	-171.33	4,815.38	-262.91	8,364.40	8,312.05	52.34	159.800			
22,600.00	9,718.14	15,903.00	11,288.09	215.28	84.53	-171.33	4,815.38	-262.91	8,462.55	8,410.16	52.39	161.530			
22,700.00	9,718.32	15,903.00	11,288.09	216.91	84.53	-171.33	4,815.38	-262.91	8,560.75	8,508.31	52.44	163.249			
22,800.00	9,718.49	15,903.00	11,288.09	218.54	84.53	-171.33	4,815.38	-262.91	8,658.99	8,606.49	52.49	164.957			
22,900.00	9,718.67	15,903.00	11,288.09	220.17	84.53	-171.33	4,815.38	-262.91	8,757.27	8,704.72	52.55	166.656			
23,000.00	9,718.84	15,903.00	11,288.09	221.80	84.53	-171.33	4,815.38	-262.91	8,855.58	8,802.98	52.60	168.344			
23,100.00	9,719.02	15,903.00	11,288.09	223.43	84.53	-171.33	4,815.38	-262.91	8,953.94	8,901.27	52.66	170.022			
23,200.00	9,719.19	15,903.00	11,288.09	225.06	84.53	-171.33	4,815.38	-262.91	9,052.33	8,999.60	52.72	171.690			
23,300.00	9,719.36	15,903.00	11,288.09	226.69	84.53	-171.33	4,815.38	-262.91	9,150.75	9,097.96	52.79	173.348			
23,400.00	9,719.54	15,903.00	11,288.09	228.32	84.53	-171.33	4,815.38	-262.91	9,249.21	9,196.36	52.85	174.995			
23,500.00	9,719.71	15,903.00	11,288.09	229.95	84.53	-171.33	4,815.38	-262.91	9,347.70	9,294.78	52.92	176.632			

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 102H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3637.8' GE + 23.5' KB @ 3664.30usft (Original Well Elev)
Reference Site:	Thistle Unit	MD Reference:	3637.8' GE + 23.5' KB @ 3664.30usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	102H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Multi User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Thistle Unit (Offsets) - 50H - OH - OH												Offset Well Error:	0.00 usft
Survey Program: 158- VES GyroFlex V2, 10541-MWD-ISCWSA													
Reference		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)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
23,600.00	9,719.89	15,903.00	11,288.09	231.58	84.53	-171.33	4,815.38	-262.91	9,446.23	9,393.23	52.99	178.259	
23,700.00	9,720.06	15,903.00	11,288.09	233.21	84.53	-171.33	4,815.38	-262.91	9,544.78	9,491.72	53.06	179.875	
23,800.00	9,720.24	15,903.00	11,288.09	234.84	84.53	-171.33	4,815.38	-262.91	9,643.36	9,590.23	53.14	181.482	
23,900.00	9,720.41	15,903.00	11,288.09	236.47	84.53	-171.33	4,815.38	-262.91	9,741.98	9,688.76	53.21	183.078	
24,000.00	9,720.59	15,903.00	11,288.09	238.10	84.53	-171.33	4,815.38	-262.91	9,840.62	9,787.33	53.29	184.664	
24,100.00	9,720.76	15,903.00	11,288.09	239.73	84.53	-171.33	4,815.38	-262.91	9,939.28	9,885.92	53.37	186.240	

LEAM Drilling Systems LLC

Anticollision Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well 102H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3637.8' GE + 23.5' KB @ 3664.30usft (Original Well Elev)
Reference Site:	Thistle Unit	MD Reference:	3637.8' GE + 23.5' KB @ 3664.30usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	102H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Multi User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Thistle Unit (Offsets) - 58H - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 1629-MWD-ISCWSA, 16290-Project													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)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
2,900.00	2,900.00	16,290.00	11,265.27	6.38	93.92	-2.76	5,487.20	-264.31	9,966.34	9,924.93	41.40	240.711		
3,000.00	3,000.00	16,290.00	11,265.27	6.60	93.92	-2.76	5,487.20	-264.31	9,883.05	9,841.57	41.48	238.239		
3,100.00	3,100.00	16,290.00	11,265.27	6.83	93.92	-2.76	5,487.20	-264.31	9,800.08	9,758.51	41.57	235.750		
3,200.00	3,200.00	16,290.00	11,265.27	7.05	93.92	-2.76	5,487.20	-264.31	9,717.43	9,675.77	41.66	233.247		
3,300.00	3,300.00	16,290.00	11,265.27	7.28	93.92	-2.76	5,487.20	-264.31	9,635.11	9,593.36	41.76	230.733		
3,400.00	3,400.00	16,290.00	11,265.27	7.50	93.92	-2.76	5,487.20	-264.31	9,553.13	9,511.27	41.86	228.209		
3,500.00	3,500.00	16,290.00	11,265.27	7.73	93.92	-2.76	5,487.20	-264.31	9,471.49	9,429.53	41.97	225.680		
3,600.00	3,600.00	16,290.00	11,265.27	7.95	93.92	-2.76	5,487.20	-264.31	9,390.21	9,348.13	42.08	223.147		
3,700.00	3,700.00	16,290.00	11,265.27	8.18	93.92	-2.76	5,487.20	-264.31	9,309.29	9,267.10	42.20	220.612		
3,800.00	3,800.00	16,290.00	11,265.27	8.40	93.92	-2.76	5,487.20	-264.31	9,228.75	9,186.43	42.32	218.078		
3,900.00	3,900.00	16,290.00	11,265.27	8.63	93.92	-2.76	5,487.20	-264.31	9,148.59	9,106.15	42.44	215.547		
4,000.00	4,000.00	16,290.00	11,265.27	8.85	93.92	-2.76	5,487.20	-264.31	9,068.83	9,026.25	42.57	213.020		
4,100.00	4,100.00	16,290.00	11,265.27	9.08	93.92	-2.76	5,487.20	-264.31	8,989.47	8,946.76	42.71	210.499		
4,200.00	4,200.00	16,290.00	11,265.27	9.30	93.92	-2.76	5,487.20	-264.31	8,910.52	8,867.68	42.84	207.986		
4,300.00	4,300.00	16,290.00	11,265.27	9.53	93.92	-2.76	5,487.20	-264.31	8,832.00	8,789.02	42.98	205.483		
4,400.00	4,400.00	16,290.00	11,265.27	9.75	93.92	-2.76	5,487.20	-264.31	8,753.92	8,710.80	43.12	202.990		
4,500.00	4,500.00	16,290.00	11,265.27	9.98	93.92	-2.76	5,487.20	-264.31	8,676.29	8,633.02	43.27	200.510		
4,600.00	4,600.00	16,290.00	11,265.27	10.20	93.92	-2.76	5,487.20	-264.31	8,599.12	8,555.70	43.42	198.043		
4,700.00	4,700.00	16,290.00	11,265.27	10.43	93.92	-2.76	5,487.20	-264.31	8,522.43	8,478.86	43.57	195.591		
4,800.00	4,800.00	16,290.00	11,265.27	10.65	93.92	-2.76	5,487.20	-264.31	8,446.23	8,402.50	43.73	193.155		
4,900.00	4,900.00	16,290.00	11,265.27	10.87	93.92	-2.76	5,487.20	-264.31	8,370.52	8,326.63	43.89	190.736		
5,000.00	5,000.00	16,290.00	11,265.27	11.10	93.92	-2.76	5,487.20	-264.31	8,295.33	8,251.28	44.05	188.334		
5,100.00	5,100.00	16,290.00	11,265.27	11.32	93.92	-2.76	5,487.20	-264.31	8,220.67	8,176.46	44.21	185.952		
5,200.00	5,200.00	16,290.00	11,265.27	11.55	93.92	-2.76	5,487.20	-264.31	8,146.55	8,102.18	44.37	183.590		
5,300.00	5,300.00	16,290.00	11,265.27	11.77	93.92	-2.76	5,487.20	-264.31	8,072.99	8,028.45	44.54	181.248		
5,400.00	5,400.00	16,290.00	11,265.27	12.00	93.92	-2.76	5,487.20	-264.31	8,000.00	7,955.29	44.71	178.928		
5,500.00	5,500.00	16,290.00	11,265.27	12.22	93.92	-2.76	5,487.20	-264.31	7,927.61	7,882.72	44.88	176.630		
5,600.00	5,600.00	16,290.00	11,265.27	12.45	93.92	-2.76	5,487.20	-264.31	7,855.81	7,810.76	45.06	174.355		
5,700.00	5,700.00	16,290.00	11,265.27	12.67	93.92	-2.76	5,487.20	-264.31	7,784.65	7,739.41	45.23	172.105		
5,800.00	5,800.00	16,290.00	11,265.27	12.90	93.92	-2.76	5,487.20	-264.31	7,714.12	7,668.71	45.41	169.879		
5,900.00	5,900.00	16,290.00	11,265.27	13.12	93.92	-2.76	5,487.20	-264.31	7,644.24	7,598.66	45.59	167.679		
6,000.00	6,000.00	16,290.00	11,265.27	13.35	93.92	-2.76	5,487.20	-264.31	7,575.05	7,529.28	45.77	165.504		
6,100.00	6,100.00	16,290.00	11,265.27	13.57	93.92	-2.76	5,487.20	-264.31	7,506.55	7,460.59	45.95	163.357		
6,200.00	6,200.00	16,290.00	11,265.27	13.80	93.92	-2.76	5,487.20	-264.31	7,438.76	7,392.62	46.14	161.237		
6,300.00	6,300.00	16,290.00	11,265.27	14.02	93.92	-2.76	5,487.20	-264.31	7,371.70	7,325.38	46.32	159.145		
6,400.00	6,400.00	16,290.00	11,265.27	14.25	93.92	-2.76	5,487.20	-264.31	7,305.40	7,258.90	46.51	157.082		
6,500.00	6,500.00	16,290.00	11,265.27	14.47	93.92	-2.76	5,487.20	-264.31	7,239.87	7,193.18	46.69	155.048		
6,600.00	6,600.00	16,290.00	11,265.27	14.70	93.92	-2.76	5,487.20	-264.31	7,175.14	7,128.26	46.88	153.044		
6,700.00	6,700.00	16,290.00	11,265.27	14.92	93.92	-2.76	5,487.20	-264.31	7,111.23	7,064.06	47.17	150.748		
6,800.00	6,800.00	16,290.00	11,265.27	15.15	93.92	-2.76	5,487.20	-264.31	7,048.15	7,000.63	47.52	148.309		
6,900.00	6,900.00	16,290.00	11,265.27	15.37	93.92	-2.76	5,487.20	-264.31	6,985.94	6,938.06	47.88	145.912		
7,000.00	7,000.00	16,290.00	11,265.27	15.59	93.92	-2.76	5,487.20	-264.31	6,924.61	6,876.37	48.24	143.559		
7,100.00	7,100.00	16,290.00	11,265.27	15.82	93.92	-2.76	5,487.20	-264.31	6,864.19	6,815.59	48.60	141.250		
7,200.00	7,200.00	16,290.00	11,265.27	16.04	93.92	-2.76	5,487.20	-264.31	6,804.70	6,755.74	48.96	138.984		
7,300.00	7,300.00	16,290.00	11,265.27	16.27	93.92	-2.76	5,487.20	-264.31	6,746.18	6,696.85	49.33	136.763		
7,400.00	7,400.00	16,290.00	11,265.27	16.49	93.92	-2.76	5,487.20	-264.31	6,688.63	6,638.93	49.70	134.586		
7,500.00	7,500.00	16,290.00	11,265.27	16.72	93.92	-2.76	5,487.20	-264.31	6,632.09	6,582.02	50.07	132.453		
7,600.00	7,600.00	16,290.00	11,265.27	16.94	93.92	-2.76	5,487.20	-264.31	6,576.59	6,526.14	50.45	130.366		
7,700.00	7,700.00	16,290.00	11,265.27	17.17	93.92	-2.76	5,487.20	-264.31	6,522.15	6,471.32	50.83	128.324		
7,800.00	7,800.00	16,290.00	11,265.27	17.39	93.92	-2.76	5,487.20	-264.31	6,468.80	6,417.59	51.21	126.327		
7,900.00	7,900.00	16,290.00	11,265.27	17.62	93.92	-2.76	5,487.20	-264.31	6,416.56	6,364.97	51.59	124.375		

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 102H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3637.8' GE + 23.5' KB @ 3664.30usft (Original Well Elev)
Reference Site:	Thistle Unit	MD Reference:	3637.8' GE + 23.5' KB @ 3664.30usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	102H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Multi User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Thistle Unit (Offsets) - 58H - OH - OH													Offset Site Error: 0.00 usft
Survey Program: 1629-MWD-ISCWSA, 16290-Project													Offset Well Error: 0.00 usft
Reference	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)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,000.00	8,000.00	16,290.00	11,265.27	17.84	93.92	-2.76	5,487.20	-264.31	6,365.46	6,313.48	51.98	122.469	
8,100.00	8,100.00	16,290.00	11,265.27	18.07	93.92	-2.76	5,487.20	-264.31	6,315.53	6,263.17	52.36	120.609	
8,200.00	8,200.00	16,290.00	11,265.27	18.29	93.92	-2.76	5,487.20	-264.31	6,266.81	6,214.05	52.75	118.795	
8,300.00	8,300.00	16,290.00	11,265.27	18.52	93.92	-2.76	5,487.20	-264.31	6,219.30	6,166.16	53.14	117.027	
8,400.00	8,400.00	16,290.00	11,265.27	18.74	93.92	-2.76	5,487.20	-264.31	6,173.06	6,119.52	53.54	115.305	
8,500.00	8,500.00	16,290.00	11,265.27	18.97	93.92	-2.76	5,487.20	-264.31	6,128.09	6,074.16	53.93	113.628	
8,600.00	8,600.00	16,290.00	11,265.27	19.19	93.92	-2.76	5,487.20	-264.31	6,084.44	6,030.11	54.33	111.998	
8,700.00	8,700.00	16,290.00	11,265.27	19.42	93.92	-2.76	5,487.20	-264.31	6,042.13	5,987.40	54.72	110.414	
8,800.00	8,800.00	16,290.00	11,265.27	19.64	93.92	-2.76	5,487.20	-264.31	6,001.18	5,946.06	55.12	108.876	
8,900.00	8,900.00	16,290.00	11,265.27	19.87	93.92	-2.76	5,487.20	-264.31	5,961.63	5,906.12	55.52	107.384	
9,000.00	9,000.00	16,290.00	11,265.27	20.09	93.92	-2.76	5,487.20	-264.31	5,923.51	5,867.59	55.91	105.938	
9,100.00	9,100.00	16,290.00	11,265.27	20.31	93.92	-2.76	5,487.20	-264.31	5,886.84	5,830.52	56.31	104.537	
9,175.27	9,175.27	16,290.00	11,265.27	20.48	93.92	-2.76	5,487.20	-264.31	5,860.21	5,803.59	56.61	103.513	
9,200.00	9,199.99	16,290.00	11,265.27	20.54	93.92	-2.56	5,487.20	-264.31	5,851.10	5,794.38	56.71	103.170	
9,250.00	9,249.74	16,290.00	11,265.27	20.65	93.92	-2.68	5,487.20	-264.31	5,829.66	5,772.75	56.91	102.434	
9,300.00	9,298.81	16,290.00	11,265.27	20.77	93.92	-2.84	5,487.20	-264.31	5,804.33	5,747.23	57.10	101.647	
9,350.00	9,346.74	16,290.00	11,265.27	20.88	93.92	-3.04	5,487.20	-264.31	5,775.28	5,718.00	57.28	100.819	
9,400.00	9,393.09	16,290.00	11,265.27	20.98	93.92	-3.30	5,487.20	-264.31	5,742.73	5,685.28	57.45	99.959	
9,450.00	9,437.44	16,290.00	11,265.27	21.08	93.92	-3.64	5,487.20	-264.31	5,706.92	5,649.32	57.60	99.073	
9,500.00	9,479.37	16,290.00	11,265.27	21.18	93.92	-4.10	5,487.20	-264.31	5,668.12	5,610.38	57.74	98.168	
9,550.00	9,518.50	16,290.00	11,265.27	21.29	93.92	-4.73	5,487.20	-264.31	5,626.64	5,568.78	57.86	97.250	
9,600.00	9,554.47	16,290.00	11,265.27	21.42	93.92	-5.64	5,487.20	-264.31	5,582.79	5,524.83	57.96	96.325	
9,650.00	9,586.95	16,290.00	11,265.27	21.56	93.92	-7.04	5,487.20	-264.31	5,536.93	5,478.89	58.04	95.401	
9,700.00	9,615.64	16,290.00	11,265.27	21.71	93.92	-9.45	5,487.20	-264.31	5,489.43	5,431.33	58.10	94.484	
9,750.00	9,640.27	16,290.00	11,265.27	21.88	93.92	-14.43	5,487.20	-264.31	5,440.71	5,382.57	58.14	93.579	
9,800.00	9,660.63	16,290.00	11,265.27	22.07	93.92	-29.72	5,487.20	-264.31	5,391.17	5,333.01	58.16	92.692	
9,850.00	9,676.51	16,290.00	11,265.27	22.29	93.92	-110.82	5,487.20	-264.31	5,341.27	5,283.10	58.16	91.830	
9,900.00	9,687.78	16,290.00	11,265.27	22.52	93.92	-158.11	5,487.20	-264.31	5,291.44	5,233.29	58.15	90.996	
9,950.00	9,694.33	16,290.00	11,265.27	22.77	93.92	-167.62	5,487.20	-264.31	5,242.17	5,184.05	58.12	90.195	
9,992.54	9,696.14	16,290.00	11,265.27	23.00	93.92	-170.93	5,487.20	-264.31	5,201.04	5,142.96	58.08	89.543	
10,000.00	9,696.15	16,290.00	11,265.27	23.05	93.92	-170.93	5,487.20	-264.31	5,193.92	5,135.84	58.08	89.433	
10,100.00	9,696.33	16,290.00	11,265.27	23.66	93.92	-170.93	5,487.20	-264.31	5,098.44	5,040.44	57.99	87.914	
10,200.00	9,696.50	16,290.00	11,265.27	24.36	93.92	-170.93	5,487.20	-264.31	5,003.14	4,945.22	57.91	86.392	
10,300.00	9,696.68	16,290.00	11,265.27	25.16	93.92	-170.93	5,487.20	-264.31	4,908.02	4,850.19	57.83	84.866	
10,400.00	9,696.85	16,290.00	11,265.27	26.03	93.92	-170.93	5,487.20	-264.31	4,813.10	4,755.35	57.75	83.337	
10,500.00	9,697.02	16,290.00	11,265.27	26.98	93.92	-170.93	5,487.20	-264.31	4,718.40	4,660.72	57.68	81.805	
10,600.00	9,697.20	16,290.00	11,265.27	27.98	93.92	-170.93	5,487.20	-264.31	4,623.91	4,566.31	57.60	80.270	
10,700.00	9,697.37	16,290.00	11,265.27	29.05	93.92	-170.93	5,487.20	-264.31	4,529.67	4,472.13	57.53	78.731	
10,800.00	9,697.55	16,290.00	11,265.27	30.17	93.92	-170.93	5,487.20	-264.31	4,435.67	4,378.21	57.46	77.189	
10,900.00	9,697.72	16,290.00	11,265.27	31.33	93.92	-170.93	5,487.20	-264.31	4,341.94	4,284.54	57.40	75.644	
11,000.00	9,697.90	16,290.00	11,265.27	32.53	93.92	-170.93	5,487.20	-264.31	4,248.50	4,191.17	57.34	74.096	
11,100.00	9,698.07	16,290.00	11,265.27	33.77	93.92	-170.93	5,487.20	-264.31	4,155.37	4,098.09	57.28	72.544	
11,200.00	9,698.25	16,290.00	11,265.27	35.04	93.92	-170.93	5,487.20	-264.31	4,062.56	4,005.33	57.23	70.988	
11,300.00	9,698.42	16,290.00	11,265.27	36.34	93.92	-170.93	5,487.20	-264.31	3,970.10	3,912.92	57.18	69.430	
11,400.00	9,698.60	16,290.00	11,265.27	37.67	93.92	-170.93	5,487.20	-264.31	3,878.01	3,820.87	57.14	67.867	
11,500.00	9,698.77	16,290.00	11,265.27	39.02	93.92	-170.93	5,487.20	-264.31	3,786.33	3,729.22	57.11	66.301	
11,600.00	9,698.94	16,290.00	11,265.27	40.40	93.92	-170.93	5,487.20	-264.31	3,695.08	3,637.99	57.08	64.731	
11,700.00	9,699.12	16,290.00	11,265.27	41.79	93.92	-170.93	5,487.20	-264.31	3,604.29	3,547.22	57.07	63.158	
11,800.00	9,699.29	16,290.00	11,265.27	43.20	93.92	-170.93	5,487.20	-264.31	3,514.00	3,456.94	57.06	61.581	
11,900.00	9,699.47	16,290.00	11,265.27	44.62	93.92	-170.93	5,487.20	-264.31	3,424.25	3,367.18	57.07	60.001	

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 102H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3637.8' GE + 23.5' KB @ 3664.30usft (Original Well Elev)
Reference Site:	Thistle Unit	MD Reference:	3637.8' GE + 23.5' KB @ 3664.30usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	102H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Multi User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Thistle Unit (Offsets) - 58H - OH - OH													Offset Site Error: 0.00 usft
Survey Program: 1629-MWD-ISCWSA, 16290-Project													Offset Well Error: 0.00 usft
Reference	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)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
12,000.00	9,699.64	16,290.00	11,265.27	46.06	93.92	-170.93	5,487.20	-264.31	3,335.09	3,278.00	57.09	58.417	
12,100.00	9,699.82	16,290.00	11,265.27	47.51	93.92	-170.93	5,487.20	-264.31	3,246.55	3,189.43	57.13	58.830	
12,200.00	9,699.99	16,290.00	11,265.27	48.97	93.92	-170.93	5,487.20	-264.31	3,158.70	3,101.52	57.18	55.240	
12,300.00	9,700.17	16,290.00	11,265.27	50.45	93.92	-170.93	5,487.20	-264.31	3,071.60	3,014.34	57.26	53.647	
12,400.00	9,700.34	16,290.00	11,265.27	51.93	93.92	-170.93	5,487.20	-264.31	2,985.30	2,927.95	57.35	52.052	
12,500.00	9,700.52	16,290.00	11,265.27	53.42	93.92	-170.93	5,487.20	-264.31	2,899.88	2,842.41	57.47	50.455	
12,600.00	9,700.69	16,290.00	11,265.27	54.92	93.92	-170.93	5,487.20	-264.31	2,815.43	2,757.80	57.62	48.858	
12,700.00	9,700.86	16,290.00	11,265.27	56.43	93.92	-170.93	5,487.20	-264.31	2,732.02	2,674.21	57.81	47.262	
12,800.00	9,701.04	16,290.00	11,265.27	57.95	93.92	-170.93	5,487.20	-264.31	2,649.78	2,591.74	58.02	45.667	
12,900.00	9,701.21	16,290.00	11,265.27	59.47	93.92	-170.93	5,487.20	-264.31	2,568.76	2,510.48	58.28	44.077	
13,000.00	9,701.39	16,290.00	11,265.27	61.00	93.92	-170.93	5,487.20	-264.31	2,489.14	2,430.56	58.58	42.492	
13,100.00	9,701.56	16,290.00	11,265.27	62.53	93.92	-170.93	5,487.20	-264.31	2,411.04	2,352.09	58.95	40.901	
13,200.00	9,701.74	16,290.00	11,265.27	64.07	93.92	-170.93	5,487.20	-264.31	2,334.62	2,274.86	59.76	39.069	
13,300.00	9,701.91	16,290.00	11,265.27	65.61	93.92	-170.93	5,487.20	-264.31	2,260.03	2,199.38	60.65	37.266	
13,400.00	9,702.09	16,290.00	11,265.27	67.16	93.92	-170.93	5,487.20	-264.31	2,187.47	2,125.85	61.62	35.497	
13,500.00	9,702.26	16,290.00	11,265.27	68.71	93.92	-170.93	5,487.20	-264.31	2,117.15	2,054.46	62.70	33.768	
13,600.00	9,702.44	16,290.00	11,265.27	70.27	93.92	-170.93	5,487.20	-264.31	2,049.30	1,985.44	63.87	32.087	
13,700.00	9,702.61	16,290.00	11,265.27	71.83	93.92	-170.93	5,487.20	-264.31	1,984.17	1,919.04	65.14	30.462	
13,800.00	9,702.78	16,290.00	11,265.27	73.39	93.92	-170.93	5,487.20	-264.31	1,922.04	1,855.53	66.51	28.900	
13,900.00	9,702.96	16,290.00	11,265.27	74.96	93.92	-170.93	5,487.20	-264.31	1,863.21	1,795.23	67.98	27.410	
14,000.00	9,703.13	16,290.00	11,265.27	76.52	93.92	-170.93	5,487.20	-264.31	1,808.00	1,738.46	69.53	26.001	
14,100.00	9,703.31	16,290.00	11,265.27	78.10	93.92	-170.93	5,487.20	-264.31	1,756.74	1,685.57	71.18	24.682	
14,200.00	9,703.48	16,290.00	11,265.27	79.67	93.92	-170.93	5,487.20	-264.31	1,709.81	1,636.93	72.88	23.460	
14,300.00	9,703.66	16,290.00	11,265.27	81.25	93.92	-170.93	5,487.20	-264.31	1,667.56	1,592.93	74.63	22.343	
14,400.00	9,703.83	16,290.00	11,265.27	82.83	93.92	-170.93	5,487.20	-264.31	1,630.36	1,553.95	76.40	21.339	
14,500.00	9,704.01	16,290.00	11,265.27	84.41	93.92	-170.93	5,487.20	-264.31	1,598.55	1,520.39	78.16	20.453	
14,600.00	9,704.18	16,290.00	11,265.27	85.99	93.92	-170.93	5,487.20	-264.31	1,572.47	1,492.60	79.87	19.689	
14,700.00	9,704.35	16,290.00	11,265.27	87.58	93.92	-170.93	5,487.20	-264.31	1,552.41	1,470.92	81.49	19.051	
14,800.00	9,704.53	16,290.00	11,265.27	89.16	93.92	-170.93	5,487.20	-264.31	1,538.59	1,455.60	82.99	18.540	
14,900.00	9,704.70	16,290.00	11,265.27	90.75	93.92	-170.93	5,487.20	-264.31	1,531.20	1,446.87	84.33	18.157	
14,963.49	9,704.81	16,290.00	11,265.27	91.76	93.92	-170.93	5,487.20	-264.31	1,529.88	1,444.79	85.09	17.980	
15,000.00	9,704.88	16,290.00	11,265.27	92.34	93.92	-170.93	5,487.20	-264.31	1,530.32	1,444.83	85.49	17.901	
15,100.00	9,705.05	16,191.40	11,268.14	93.94	93.28	-171.01	5,585.74	-262.94	1,532.74	1,446.89	85.85	17.854	
15,200.00	9,705.23	16,094.06	11,271.13	95.53	91.74	-171.10	5,683.03	-261.49	1,535.30	1,449.53	85.77	17.901	
15,300.00	9,705.40	15,974.15	11,274.47	97.13	89.85	-171.22	5,802.86	-259.09	1,537.55	1,452.15	85.40	18.004	
15,400.00	9,705.58	15,868.69	11,276.16	98.72	88.16	-171.29	5,908.31	-257.87	1,538.72	1,453.47	85.25	18.049	
15,500.00	9,705.75	15,736.88	11,275.77	100.32	86.02	-171.19	6,040.06	-261.15	1,538.53	1,453.56	84.97	18.107	
15,600.00	9,705.93	15,625.86	11,273.59	101.92	84.23	-171.02	6,150.96	-265.92	1,537.01	1,452.02	84.99	18.084	
15,700.00	9,706.10	15,534.56	11,271.74	103.52	82.79	-170.90	6,242.18	-269.27	1,535.37	1,450.16	85.21	18.019	
15,800.00	9,706.27	15,447.89	11,270.84	105.12	81.44	-170.79	6,328.79	-272.25	1,534.64	1,449.17	85.46	17.957	
15,845.88	9,706.35	15,407.10	11,270.61	105.86	80.80	-170.74	6,369.55	-273.84	1,534.56	1,448.99	85.57	17.932	
15,900.00	9,706.45	15,358.30	11,270.47	106.72	80.03	-170.67	6,418.31	-275.94	1,534.66	1,448.95	85.71	17.906	
16,000.00	9,706.62	15,262.06	11,270.53	108.33	78.50	-170.51	6,514.44	-280.48	1,535.24	1,449.34	85.90	17.872	
16,100.00	9,706.80	15,156.68	11,270.47	109.93	76.81	-170.36	6,619.71	-285.16	1,535.69	1,449.69	85.99	17.858	
16,200.00	9,706.97	15,049.05	11,269.87	111.54	75.07	-170.18	6,727.21	-290.38	1,535.71	1,449.63	86.09	17.839	
16,300.00	9,707.15	14,940.92	11,268.66	113.14	73.34	-169.99	6,835.20	-295.72	1,535.21	1,449.03	86.18	17.813	
16,400.00	9,707.32	14,834.00	11,266.85	114.75	71.68	-169.80	6,941.98	-300.93	1,534.15	1,447.86	86.30	17.777	
16,451.04	9,707.41	14,801.34	11,266.45	115.57	71.17	-169.75	6,974.61	-302.37	1,533.82	1,447.24	86.58	17.716	
16,500.00	9,707.50	14,771.47	11,266.48	116.36	70.71	-169.71	7,004.45	-303.65	1,534.13	1,447.27	86.85	17.663	
16,600.00	9,707.67	14,653.05	11,267.74	117.97	68.87	-169.57	7,122.77	-308.18	1,535.77	1,448.98	86.79	17.696	
16,700.00	9,707.85	14,536.66	11,266.76	119.58	67.08	-169.46	7,239.11	-311.27	1,535.15	1,448.45	86.70	17.706	

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 102H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3637.8' GE + 23.5' KB @ 3664.30usft (Original Well Elev)
Reference Site:	Thistle Unit	MD Reference:	3637.8' GE + 23.5' KB @ 3664.30usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	102H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Multi User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Thistle Unit (Offsets) - 58H - OH - OH													Offset Site Error: 0.00 usft
Survey Program: 1629-MWD-ISCWSA, 16290-Project													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)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
16,800.00	9,708.02	14,456.00	11,265.67	121.19	65.87	-169.39	7,319.74	-313.30	1,534.19	1,447.16	87.02	17.630	
16,830.46	9,708.07	14,421.75	11,265.36	121.68	65.36	-169.36	7,353.98	-314.34	1,533.98	1,446.96	87.02	17.628	
16,900.00	9,708.19	14,362.00	11,265.75	122.80	64.47	-169.29	7,413.68	-316.44	1,534.63	1,447.42	87.21	17.596	
17,000.00	9,708.37	14,275.87	11,266.97	124.41	63.17	-169.20	7,499.75	-319.54	1,536.35	1,448.86	87.49	17.560	
17,100.00	9,708.54	14,176.09	11,268.15	126.02	61.69	-169.10	7,599.47	-322.80	1,537.87	1,450.26	87.61	17.553	
17,200.00	9,708.72	14,066.55	11,269.22	127.64	60.06	-169.01	7,708.96	-325.90	1,539.12	1,451.50	87.61	17.568	
17,300.00	9,708.89	13,964.84	11,269.79	129.25	58.57	-168.93	7,810.63	-328.72	1,539.95	1,452.25	87.70	17.559	
17,400.00	9,709.07	13,863.65	11,270.73	130.86	57.10	-168.88	7,911.80	-330.50	1,540.95	1,453.20	87.75	17.561	
17,500.00	9,709.24	13,725.68	11,269.84	132.48	55.13	-168.78	8,049.73	-333.62	1,540.51	1,453.09	87.42	17.621	
17,600.00	9,709.42	13,593.79	11,266.31	134.09	53.29	-168.73	8,181.57	-334.74	1,537.80	1,450.70	87.10	17.655	
17,700.00	9,709.59	13,466.01	11,259.62	135.71	51.58	-168.67	8,309.16	-335.66	1,532.40	1,445.55	86.85	17.644	
17,800.00	9,709.77	13,391.43	11,255.80	137.33	50.61	-168.62	8,383.63	-336.51	1,527.42	1,440.15	87.27	17.503	
17,900.00	9,709.94	13,323.00	11,254.14	138.94	49.72	-168.59	8,452.04	-337.20	1,524.84	1,437.11	87.73	17.381	
17,964.84	9,710.05	13,286.74	11,254.02	139.99	49.25	-168.59	8,488.30	-337.42	1,524.40	1,436.30	88.10	17.303	
18,000.00	9,710.11	13,261.42	11,254.16	140.56	48.92	-168.59	8,513.62	-337.46	1,524.52	1,436.29	88.22	17.280	
18,100.00	9,710.29	13,163.71	11,255.60	142.18	47.66	-168.63	8,611.32	-337.10	1,525.63	1,437.39	88.24	17.290	
18,200.00	9,710.46	13,018.47	11,255.01	143.80	45.82	-168.63	8,756.54	-337.58	1,525.08	1,437.33	87.76	17.379	
18,300.00	9,710.64	12,901.73	11,251.45	145.42	44.39	-168.57	8,873.22	-338.91	1,522.01	1,434.33	87.68	17.358	
18,400.00	9,710.81	12,809.28	11,248.15	147.04	43.29	-168.44	8,965.55	-342.22	1,518.97	1,430.98	87.99	17.262	
18,500.00	9,710.99	12,721.59	11,245.47	148.65	42.28	-168.30	9,053.13	-345.70	1,516.54	1,428.16	88.37	17.161	
18,600.00	9,711.16	12,638.43	11,243.71	150.27	41.34	-168.15	9,136.18	-349.58	1,515.15	1,426.33	88.82	17.059	
18,700.00	9,711.34	12,551.22	11,242.80	151.90	40.37	-168.01	9,223.30	-353.56	1,514.80	1,425.59	89.22	16.978	
18,748.68	9,711.42	12,501.82	11,242.48	152.68	39.83	-167.94	9,272.65	-355.63	1,514.80	1,425.45	89.34	16.955	
18,800.00	9,711.51	9,891.71	9,833.68	153.52	24.10	-95.33	10,604.28	-797.69	1,486.92	1,381.88	105.04	14.156	
18,900.00	9,711.69	9,891.73	9,833.70	155.14	24.10	-95.33	10,604.28	-797.69	1,401.74	1,291.61	110.13	12.728	
19,000.00	9,711.86	9,891.74	9,833.71	156.76	24.10	-95.33	10,604.28	-797.69	1,318.65	1,202.88	115.77	11.390	
19,100.00	9,712.03	9,891.76	9,833.72	158.38	24.10	-95.33	10,604.28	-797.69	1,238.05	1,116.05	122.01	10.147	
19,200.00	9,712.21	9,891.77	9,833.74	160.00	24.10	-95.33	10,604.28	-797.68	1,160.48	1,031.60	128.88	9.004	
19,300.00	9,712.38	9,891.78	9,833.75	161.62	24.10	-95.33	10,604.28	-797.68	1,086.59	950.19	136.40	7.966	
19,400.00	9,712.56	9,891.80	9,833.77	163.25	24.10	-95.34	10,604.28	-797.68	1,017.16	872.63	144.53	7.038	
19,500.00	9,712.73	9,891.81	9,833.78	164.87	24.10	-95.34	10,604.28	-797.68	953.19	800.03	153.15	6.224	
19,600.00	9,712.91	9,891.83	9,833.80	166.49	24.10	-95.34	10,604.28	-797.68	895.83	733.78	162.05	5.528	
19,700.00	9,713.08	9,891.84	9,833.81	168.12	24.10	-95.34	10,604.28	-797.68	846.44	675.59	170.85	4.954	
19,800.00	9,713.26	9,891.86	9,833.82	169.74	24.10	-95.34	10,604.28	-797.68	806.48	627.48	178.99	4.506	
19,900.00	9,713.43	9,891.87	9,833.84	171.36	24.10	-95.34	10,604.28	-797.68	777.40	591.58	185.82	4.184	
20,000.00	9,713.61	9,891.89	9,833.85	172.99	24.10	-95.34	10,604.28	-797.67	760.46	569.81	190.65	3.989	
20,080.26	9,713.75	9,891.90	9,833.87	174.29	24.10	-95.34	10,604.28	-797.67	756.21	563.50	192.71	3.924 CC, ES	
20,100.00	9,713.78	9,891.90	9,833.87	174.61	24.10	-95.34	10,604.28	-797.67	756.47	563.51	192.95	3.920 SF	
20,200.00	9,713.95	9,891.92	9,833.88	176.24	24.10	-95.34	10,604.28	-797.67	765.63	573.09	192.54	3.976	
20,300.00	9,714.13	9,891.93	9,833.90	177.86	24.10	-95.35	10,604.28	-797.67	787.49	597.87	189.62	4.153	
20,400.00	9,714.30	9,891.94	9,833.91	179.49	24.10	-95.35	10,604.28	-797.67	821.03	636.34	184.69	4.445	
20,500.00	9,714.48	9,891.96	9,833.93	181.11	24.10	-95.35	10,604.28	-797.67	864.89	686.42	178.47	4.846	
20,600.00	9,714.65	9,891.97	9,833.94	182.74	24.10	-95.35	10,604.28	-797.67	917.60	746.10	171.50	5.350	
20,700.00	9,714.83	9,891.99	9,833.96	184.36	24.10	-95.35	10,604.28	-797.66	977.72	813.44	164.28	5.952	
20,800.00	9,715.00	9,892.00	9,833.97	185.99	24.10	-95.35	10,604.28	-797.66	1,043.97	886.81	157.16	6.643	
20,900.00	9,715.18	9,892.02	9,833.99	187.61	24.10	-95.35	10,604.28	-797.66	1,115.27	964.91	150.36	7.417	
21,000.00	9,715.35	9,892.03	9,834.00	189.24	24.10	-95.35	10,604.28	-797.66	1,190.70	1,046.70	144.00	8.269	
21,100.00	9,715.52	9,892.05	9,834.02	190.87	24.10	-95.35	10,604.28	-797.66	1,269.53	1,131.40	138.13	9.191	
21,200.00	9,715.70	9,892.06	9,834.03	192.49	24.10	-95.36	10,604.28	-797.66	1,351.17	1,218.42	132.75	10.178	
21,300.00	9,715.87	9,892.08	9,834.05	194.12	24.10	-95.36	10,604.28	-797.66	1,435.13	1,307.28	127.86	11.225	

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 102H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3637.8' GE + 23.5' KB @ 3664.30usft (Original Well Elev)
Reference Site:	Thistle Unit	MD Reference:	3637.8' GE + 23.5' KB @ 3664.30usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	102H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Multi User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Thistle Unit (Offsets) - 58H - OH - OH													Offset Site Error: 0.00 usft
Survey Program: 1629-MWD-ISCWSA, 16290-Project													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)	+E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
21,400.00	9,716.05	9,892.09	9,834.06	195.75	24.10	-95.36	10,804.28	-797.65	1,521.04	1,397.64	123.40	12.326	
21,500.00	9,716.22	9,892.11	9,834.08	197.37	24.10	-95.36	10,804.28	-797.65	1,608.57	1,489.21	119.36	13.477	
21,600.00	9,716.40	9,892.12	9,834.09	199.00	24.10	-95.36	10,804.28	-797.65	1,697.48	1,581.79	115.69	14.673	
21,700.00	9,716.57	9,892.14	9,834.11	200.63	24.10	-95.36	10,804.28	-797.65	1,787.57	1,675.21	112.35	15.910	
21,800.00	9,716.75	9,892.15	9,834.12	202.26	24.10	-95.36	10,804.28	-797.65	1,878.66	1,769.33	109.32	17.185	
21,900.00	9,716.92	9,892.17	9,834.14	203.89	24.10	-95.36	10,804.28	-797.65	1,970.61	1,864.05	106.56	18.493	
22,000.00	9,717.10	9,892.18	9,834.15	205.51	24.10	-95.36	10,804.28	-797.65	2,063.31	1,959.27	104.04	19.833	
22,100.00	9,717.27	9,892.20	9,834.17	207.14	24.10	-95.37	10,804.28	-797.64	2,156.66	2,054.93	101.73	21.199	
22,200.00	9,717.44	9,892.21	9,834.18	208.77	24.10	-95.37	10,804.27	-797.64	2,250.59	2,150.96	99.62	22.591	
22,300.00	9,717.62	9,892.23	9,834.20	210.40	24.10	-95.37	10,804.27	-797.64	2,345.01	2,247.32	97.69	24.005	
22,400.00	9,717.79	9,892.24	9,834.21	212.03	24.10	-95.37	10,804.27	-797.64	2,439.88	2,343.97	95.91	25.439	
22,500.00	9,717.97	9,892.26	9,834.23	213.66	24.10	-95.37	10,804.27	-797.64	2,535.15	2,440.87	94.28	26.891	
22,600.00	9,718.14	9,892.28	9,834.24	215.28	24.10	-95.37	10,804.27	-797.64	2,630.76	2,538.00	92.77	28.358	
22,700.00	9,718.32	9,892.29	9,834.26	216.91	24.10	-95.37	10,804.27	-797.64	2,726.70	2,635.32	91.38	29.840	
22,800.00	9,718.49	9,892.31	9,834.27	218.54	24.10	-95.37	10,804.27	-797.63	2,822.91	2,732.82	90.09	31.334	
22,900.00	9,718.67	9,892.32	9,834.29	220.17	24.10	-95.38	10,804.27	-797.63	2,919.38	2,830.47	88.90	32.838	
23,000.00	9,718.84	9,892.34	9,834.30	221.80	24.10	-95.38	10,804.27	-797.63	3,016.08	2,928.27	87.80	34.351	
23,100.00	9,719.02	9,892.35	9,834.32	223.43	24.10	-95.38	10,804.27	-797.63	3,112.98	3,026.20	86.78	35.872	
23,200.00	9,719.19	9,892.37	9,834.33	225.06	24.10	-95.38	10,804.27	-797.63	3,210.08	3,124.25	85.83	37.400	
23,300.00	9,719.36	9,892.38	9,834.35	226.69	24.10	-95.38	10,804.27	-797.63	3,307.35	3,222.40	84.95	38.934	
23,400.00	9,719.54	9,892.40	9,834.36	228.32	24.10	-95.38	10,804.27	-797.63	3,404.78	3,320.65	84.13	40.471	
23,500.00	9,719.71	9,892.41	9,834.38	229.95	24.10	-95.38	10,804.27	-797.62	3,502.35	3,418.98	83.36	42.013	
23,600.00	9,719.89	9,892.43	9,834.40	231.58	24.10	-95.38	10,804.27	-797.62	3,600.05	3,517.40	82.65	43.556	
23,700.00	9,720.06	9,892.45	9,834.41	233.21	24.10	-95.38	10,804.27	-797.62	3,697.88	3,615.89	81.99	45.102	
23,800.00	9,720.24	9,892.46	9,834.43	234.84	24.10	-95.39	10,804.27	-797.62	3,795.83	3,714.45	81.37	46.648	
23,900.00	9,720.41	9,892.48	9,834.44	236.47	24.10	-95.39	10,804.27	-797.62	3,893.87	3,813.08	80.79	48.195	
24,000.00	9,720.59	9,892.49	9,834.46	238.10	24.10	-95.39	10,804.27	-797.62	3,992.02	3,911.76	80.25	49.742	
24,100.00	9,720.76	9,892.51	9,834.47	239.73	24.10	-95.39	10,804.27	-797.62	4,090.25	4,010.50	79.75	51.288	
24,200.00	9,720.94	9,892.52	9,834.49	241.36	24.10	-95.39	10,804.27	-797.61	4,188.57	4,109.28	79.28	52.832	
24,300.00	9,721.11	9,892.54	9,834.50	242.99	24.10	-95.39	10,804.27	-797.61	4,286.96	4,208.12	78.84	54.374	
24,400.00	9,721.28	9,892.56	9,834.52	244.62	24.10	-95.39	10,804.27	-797.61	4,385.43	4,307.00	78.43	55.914	
24,500.00	9,721.46	9,892.57	9,834.54	246.25	24.10	-95.39	10,804.27	-797.61	4,483.96	4,405.91	78.05	57.451	
24,600.00	9,721.63	9,892.59	9,834.55	247.88	24.10	-95.40	10,804.27	-797.61	4,582.56	4,504.87	77.69	58.985	
24,700.00	9,721.81	9,892.60	9,834.57	249.51	24.10	-95.40	10,804.27	-797.61	4,681.22	4,603.86	77.36	60.516	
24,800.00	9,721.98	9,892.62	9,834.58	251.14	24.10	-95.40	10,804.27	-797.61	4,779.93	4,702.89	77.04	62.042	
24,810.04	9,722.00	9,892.62	9,834.59	251.31	24.10	-95.40	10,804.27	-797.61	4,789.85	4,712.83	77.01	62.195	

LEAM Drilling Systems LLC

Anticollision Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well 102H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3637.8' GE + 23.5' KB @ 3664.30usft (Original Well Elev)
Reference Site:	Thistle Unit	MD Reference:	3637.8' GE + 23.5' KB @ 3664.30usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	102H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Multi User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Thistle Unit (Offsets) - 71H - OH - OH													Offset Site Error: 0.00 usft
Survey Program: 126-MWD-ISCWSA													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)	+E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
2,100.00	2,100.00	14,979.00	10,508.93	4.58	84.85	-0.91	5,402.84	-85.54	9,960.35	9,924.64	35.71	278.913	
2,200.00	2,200.00	14,979.00	10,508.93	4.81	84.85	-0.91	5,402.84	-85.54	9,876.49	9,840.77	35.72	276.461	
2,300.00	2,300.00	14,979.00	10,508.93	5.03	84.85	-0.91	5,402.84	-85.54	9,792.94	9,757.19	35.75	273.958	
2,400.00	2,400.00	14,979.00	10,508.93	5.26	84.85	-0.91	5,402.84	-85.54	9,709.70	9,673.92	35.78	271.409	
2,500.00	2,500.00	14,979.00	10,508.93	5.48	84.85	-0.91	5,402.84	-85.54	9,626.77	9,590.96	35.81	268.818	
2,600.00	2,600.00	14,979.00	10,508.93	5.71	84.85	-0.91	5,402.84	-85.54	9,544.18	9,508.32	35.85	266.189	
2,700.00	2,700.00	14,979.00	10,508.93	5.93	84.85	-0.91	5,402.84	-85.54	9,461.92	9,426.01	35.91	263.526	
2,800.00	2,800.00	14,979.00	10,508.93	6.15	84.85	-0.91	5,402.84	-85.54	9,380.00	9,344.04	35.96	260.834	
2,900.00	2,900.00	14,979.00	10,508.93	6.38	84.85	-0.91	5,402.84	-85.54	9,298.44	9,262.42	36.02	258.116	
3,000.00	3,000.00	14,979.00	10,508.93	6.60	84.85	-0.91	5,402.84	-85.54	9,217.24	9,181.15	36.09	255.378	
3,100.00	3,100.00	14,979.00	10,508.93	6.83	84.85	-0.91	5,402.84	-85.54	9,136.42	9,100.25	36.17	252.622	
3,200.00	3,200.00	14,979.00	10,508.93	7.05	84.85	-0.91	5,402.84	-85.54	9,055.97	9,019.73	36.25	249.852	
3,300.00	3,300.00	14,979.00	10,508.93	7.28	84.85	-0.91	5,402.84	-85.54	8,975.92	8,939.59	36.33	247.073	
3,400.00	3,400.00	14,979.00	10,508.93	7.50	84.85	-0.91	5,402.84	-85.54	8,896.28	8,859.86	36.42	244.287	
3,500.00	3,500.00	14,979.00	10,508.93	7.73	84.85	-0.91	5,402.84	-85.54	8,817.05	8,780.54	36.51	241.498	
3,600.00	3,600.00	14,979.00	10,508.93	7.95	84.85	-0.91	5,402.84	-85.54	8,738.24	8,701.63	36.61	238.708	
3,700.00	3,700.00	14,979.00	10,508.93	8.18	84.85	-0.91	5,402.84	-85.54	8,659.87	8,623.17	36.71	235.920	
3,800.00	3,800.00	14,979.00	10,508.93	8.40	84.85	-0.91	5,402.84	-85.54	8,581.96	8,545.15	36.81	233.138	
3,900.00	3,900.00	14,979.00	10,508.93	8.63	84.85	-0.91	5,402.84	-85.54	8,504.50	8,467.58	36.92	230.363	
4,000.00	4,000.00	14,979.00	10,508.93	8.85	84.85	-0.91	5,402.84	-85.54	8,427.52	8,390.49	37.03	227.598	
4,100.00	4,100.00	14,979.00	10,508.93	9.08	84.85	-0.91	5,402.84	-85.54	8,351.03	8,313.88	37.14	224.845	
4,200.00	4,200.00	14,979.00	10,508.93	9.30	84.85	-0.91	5,402.84	-85.54	8,275.03	8,237.78	37.26	222.105	
4,300.00	4,300.00	14,979.00	10,508.93	9.53	84.85	-0.91	5,402.84	-85.54	8,199.56	8,162.18	37.38	219.381	
4,400.00	4,400.00	14,979.00	10,508.93	9.75	84.85	-0.91	5,402.84	-85.54	8,124.61	8,087.11	37.50	216.675	
4,500.00	4,500.00	14,979.00	10,508.93	9.98	84.85	-0.91	5,402.84	-85.54	8,050.21	8,012.59	37.62	213.988	
4,600.00	4,600.00	14,979.00	10,508.93	10.20	84.85	-0.91	5,402.84	-85.54	7,976.36	7,938.62	37.75	211.322	
4,700.00	4,700.00	14,979.00	10,508.93	10.43	84.85	-0.91	5,402.84	-85.54	7,903.10	7,865.23	37.87	208.677	
4,800.00	4,800.00	14,979.00	10,508.93	10.65	84.85	-0.91	5,402.84	-85.54	7,830.42	7,792.42	38.00	206.056	
4,900.00	4,900.00	14,979.00	10,508.93	10.87	84.85	-0.91	5,402.84	-85.54	7,758.35	7,720.22	38.13	203.460	
5,000.00	5,000.00	14,979.00	10,508.93	11.10	84.85	-0.91	5,402.84	-85.54	7,686.91	7,648.65	38.26	200.890	
5,100.00	5,100.00	14,979.00	10,508.93	11.32	84.85	-0.91	5,402.84	-85.54	7,616.11	7,577.71	38.40	198.348	
5,200.00	5,200.00	14,979.00	10,508.93	11.55	84.85	-0.91	5,402.84	-85.54	7,545.97	7,507.44	38.53	195.833	
5,300.00	5,300.00	14,979.00	10,508.93	11.77	84.85	-0.91	5,402.84	-85.54	7,476.51	7,437.85	38.67	193.348	
5,400.00	5,400.00	14,979.00	10,508.93	12.00	84.85	-0.91	5,402.84	-85.54	7,407.75	7,368.95	38.81	190.893	
5,500.00	5,500.00	14,979.00	10,508.93	12.22	84.85	-0.91	5,402.84	-85.54	7,339.71	7,300.77	38.94	188.470	
5,600.00	5,600.00	14,979.00	10,508.93	12.45	84.85	-0.91	5,402.84	-85.54	7,272.41	7,233.33	39.08	186.079	
5,700.00	5,700.00	14,979.00	10,508.93	12.67	84.85	-0.91	5,402.84	-85.54	7,205.86	7,166.64	39.22	183.722	
5,800.00	5,800.00	14,979.00	10,508.93	12.90	84.85	-0.91	5,402.84	-85.54	7,140.10	7,100.74	39.36	181.398	
5,900.00	5,900.00	14,979.00	10,508.93	13.12	84.85	-0.91	5,402.84	-85.54	7,075.14	7,035.64	39.50	179.109	
6,000.00	6,000.00	14,979.00	10,508.93	13.35	84.85	-0.91	5,402.84	-85.54	7,011.00	6,971.36	39.64	176.857	
6,100.00	6,100.00	14,979.00	10,508.93	13.57	84.85	-0.91	5,402.84	-85.54	6,947.71	6,907.93	39.78	174.640	
6,200.00	6,200.00	14,979.00	10,508.93	13.80	84.85	-0.91	5,402.84	-85.54	6,885.29	6,845.37	39.92	172.461	
6,300.00	6,300.00	14,979.00	10,508.93	14.02	84.85	-0.91	5,402.84	-85.54	6,823.77	6,783.70	40.06	170.320	
6,400.00	6,400.00	14,979.00	10,508.93	14.25	84.85	-0.91	5,402.84	-85.54	6,763.16	6,722.96	40.20	168.218	
6,500.00	6,500.00	14,979.00	10,508.93	14.47	84.85	-0.91	5,402.84	-85.54	6,703.50	6,663.10	40.41	165.907	
6,600.00	6,600.00	14,979.00	10,508.93	14.70	84.85	-0.91	5,402.84	-85.54	6,644.81	6,604.12	40.69	163.312	
6,700.00	6,700.00	14,979.00	10,508.93	14.92	84.85	-0.91	5,402.84	-85.54	6,587.11	6,546.14	40.97	160.769	
6,800.00	6,800.00	14,979.00	10,508.93	15.15	84.85	-0.91	5,402.84	-85.54	6,530.43	6,489.18	41.26	158.279	
6,900.00	6,900.00	14,979.00	10,508.93	15.37	84.85	-0.91	5,402.84	-85.54	6,474.81	6,433.26	41.55	155.842	
7,000.00	7,000.00	14,979.00	10,508.93	15.59	84.85	-0.91	5,402.84	-85.54	6,420.26	6,378.42	41.84	153.458	
7,100.00	7,100.00	14,979.00	10,508.93	15.82	84.85	-0.91	5,402.84	-85.54	6,366.81	6,324.68	42.13	151.128	

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
Project: Lea County, NM (NAD-83)
Reference Site: Thistle Unit
Site Error: 0.00 usft
Reference Well: 102H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Plan #1

Local Co-ordinate Reference: Well 102H
TVD Reference: 3637.8' GE + 23.5' KB @ 3664.30usft
 (Original Well Elev)
MD Reference: 3637.8' GE + 23.5' KB @ 3664.30usft
 (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM 5000.1 Multi User Db
Offset TVD Reference: Offset Datum

Offset Design Thistle Unit (Offsets) - 71H - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 126-MWD-ISCWSA													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)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
7,200.00	7,200.00	14,979.00	10,508.93	16.04	84.85	-0.91	5,402.84	-85.54	6,314.49	6,272.07	42.42	148.852		
7,300.00	7,300.00	14,979.00	10,508.93	16.27	84.85	-0.91	5,402.84	-85.54	6,263.33	6,220.82	42.72	146.630		
7,400.00	7,400.00	14,979.00	10,508.93	16.49	84.85	-0.91	5,402.84	-85.54	6,213.36	6,170.35	43.01	144.461		
7,500.00	7,500.00	14,979.00	10,508.93	16.72	84.85	-0.91	5,402.84	-85.54	6,164.61	6,121.31	43.31	142.347		
7,600.00	7,600.00	14,979.00	10,508.93	16.94	84.85	-0.91	5,402.84	-85.54	6,117.11	6,073.50	43.60	140.288		
7,700.00	7,700.00	14,979.00	10,508.93	17.17	84.85	-0.91	5,402.84	-85.54	6,070.88	6,026.98	43.90	138.282		
7,800.00	7,800.00	14,979.00	10,508.93	17.39	84.85	-0.91	5,402.84	-85.54	6,025.95	5,981.75	44.20	136.331		
7,900.00	7,900.00	14,979.00	10,508.93	17.62	84.85	-0.91	5,402.84	-85.54	5,982.36	5,937.86	44.50	134.434		
8,000.00	8,000.00	14,979.00	10,508.93	17.84	84.85	-0.91	5,402.84	-85.54	5,940.14	5,895.34	44.80	132.591		
8,100.00	8,100.00	14,979.00	10,508.93	18.07	84.85	-0.91	5,402.84	-85.54	5,899.30	5,854.20	45.10	130.801		
8,200.00	8,200.00	14,979.00	10,508.93	18.29	84.85	-0.91	5,402.84	-85.54	5,859.89	5,814.49	45.40	129.066		
8,300.00	8,300.00	14,979.00	10,508.93	18.52	84.85	-0.91	5,402.84	-85.54	5,821.93	5,776.23	45.70	127.384		
8,400.00	8,400.00	14,979.00	10,508.93	18.74	84.85	-0.91	5,402.84	-85.54	5,785.45	5,739.44	46.01	125.755		
8,500.00	8,500.00	14,979.00	10,508.93	18.97	84.85	-0.91	5,402.84	-85.54	5,750.48	5,704.17	46.31	124.179		
8,600.00	8,600.00	14,979.00	10,508.93	19.19	84.85	-0.91	5,402.84	-85.54	5,717.04	5,670.43	46.61	122.655		
8,700.00	8,700.00	14,979.00	10,508.93	19.42	84.85	-0.91	5,402.84	-85.54	5,685.16	5,638.25	46.91	121.183		
8,800.00	8,800.00	14,979.00	10,508.93	19.64	84.85	-0.91	5,402.84	-85.54	5,654.88	5,607.66	47.22	119.763		
8,900.00	8,900.00	14,979.00	10,508.93	19.87	84.85	-0.91	5,402.84	-85.54	5,626.21	5,578.69	47.52	118.394		
9,000.00	9,000.00	14,979.00	10,508.93	20.09	84.85	-0.91	5,402.84	-85.54	5,599.17	5,551.35	47.83	117.075		
9,100.00	9,100.00	14,979.00	10,508.93	20.31	84.85	-0.91	5,402.84	-85.54	5,573.81	5,525.68	48.13	115.807		
9,175.27	9,175.27	14,979.00	10,508.93	20.48	84.85	-0.91	5,402.84	-85.54	5,555.82	5,507.46	48.36	114.884		
9,200.00	9,199.99	14,979.00	10,508.93	20.54	84.85	-0.67	5,402.84	-85.54	5,549.55	5,501.12	48.44	114.573		
9,250.00	9,249.74	14,979.00	10,508.93	20.65	84.85	-0.70	5,402.84	-85.54	5,533.76	5,485.16	48.59	113.882		
9,300.00	9,298.81	14,979.00	10,508.93	20.77	84.85	-0.73	5,402.84	-85.54	5,513.87	5,465.13	48.75	113.115		
9,350.00	9,346.74	14,979.00	10,508.93	20.88	84.85	-0.76	5,402.84	-85.54	5,490.04	5,441.15	48.89	112.284		
9,400.00	9,393.09	14,979.00	10,508.93	20.98	84.85	-0.81	5,402.84	-85.54	5,462.44	5,413.40	49.04	111.397		
9,450.00	9,437.44	14,979.00	10,508.93	21.08	84.85	-0.88	5,402.84	-85.54	5,431.25	5,382.08	49.17	110.461		
9,500.00	9,479.37	14,979.00	10,508.93	21.18	84.85	-0.96	5,402.84	-85.54	5,396.72	5,347.43	49.29	109.484		
9,550.00	9,518.50	14,979.00	10,508.93	21.29	84.85	-1.08	5,402.84	-85.54	5,359.09	5,309.68	49.41	108.472		
9,600.00	9,554.47	14,979.00	10,508.93	21.42	84.85	-1.23	5,402.84	-85.54	5,318.65	5,269.14	49.51	107.434		
9,650.00	9,586.95	14,979.00	10,508.93	21.56	84.85	-1.44	5,402.84	-85.54	5,275.72	5,226.12	49.59	106.376		
9,700.00	9,615.64	14,979.00	10,508.93	21.71	84.85	-1.77	5,402.84	-85.54	5,230.62	5,180.95	49.67	105.307		
9,750.00	9,640.27	14,979.00	10,508.93	21.88	84.85	-2.29	5,402.84	-85.54	5,183.74	5,134.00	49.73	104.233		
9,800.00	9,660.63	14,979.00	10,508.93	22.07	84.85	-3.30	5,402.84	-85.54	5,135.44	5,085.66	49.78	103.162		
9,850.00	9,676.51	14,979.00	10,508.93	22.29	84.85	-5.92	5,402.84	-85.54	5,086.16	5,036.34	49.82	102.100		
9,900.00	9,687.78	14,979.00	10,508.93	22.52	84.85	-27.43	5,402.84	-85.54	5,036.31	4,986.47	49.84	101.054		
9,950.00	9,694.33	14,979.00	10,508.93	22.77	84.85	-170.11	5,402.84	-85.54	4,986.35	4,936.50	49.85	100.029		
9,992.54	9,696.14	14,979.00	10,508.93	23.00	84.85	-175.30	5,402.84	-85.54	4,944.09	4,894.24	49.85	99.178		
10,000.00	9,696.15	14,979.00	10,508.93	23.05	84.85	-175.30	5,402.84	-85.54	4,936.73	4,886.88	49.85	99.033		
10,100.00	9,696.33	14,979.00	10,508.93	23.66	84.85	-175.30	5,402.84	-85.54	4,837.96	4,788.11	49.85	97.046		
10,200.00	9,696.50	14,979.00	10,508.93	24.36	84.85	-175.30	5,402.84	-85.54	4,739.24	4,689.39	49.86	95.057		
10,300.00	9,696.68	14,979.00	10,508.93	25.16	84.85	-175.30	5,402.84	-85.54	4,640.58	4,590.72	49.86	93.066		
10,400.00	9,696.85	14,979.00	10,508.93	26.03	84.85	-175.30	5,402.84	-85.54	4,541.98	4,492.11	49.87	91.072		
10,500.00	9,697.02	14,979.00	10,508.93	26.98	84.85	-175.30	5,402.84	-85.54	4,443.44	4,393.56	49.88	89.076		
10,600.00	9,697.20	14,979.00	10,508.93	27.98	84.85	-175.30	5,402.84	-85.54	4,344.97	4,295.07	49.90	87.079		
10,700.00	9,697.37	14,979.00	10,508.93	29.05	84.85	-175.30	5,402.84	-85.54	4,246.57	4,196.66	49.91	85.079		
10,800.00	9,697.55	14,979.00	10,508.93	30.17	84.85	-175.30	5,402.84	-85.54	4,148.25	4,098.31	49.93	83.078		
10,900.00	9,697.72	14,979.00	10,508.93	31.33	84.85	-175.30	5,402.84	-85.54	4,050.00	4,000.05	49.95	81.075		
11,000.00	9,697.90	14,979.00	10,508.93	32.53	84.85	-175.30	5,402.84	-85.54	3,951.85	3,901.87	49.98	79.072		
11,100.00	9,698.07	14,979.00	10,508.93	33.77	84.85	-175.30	5,402.84	-85.54	3,853.79	3,803.78	50.01	77.067		

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 102H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3637.8' GE + 23.5' KB @ 3664.30usft (Original Well Elev)
Reference Site:	Thistle Unit	MD Reference:	3637.8' GE + 23.5' KB @ 3664.30usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	102H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Multi User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Thistle Unit (Offsets) - 71H - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 126-MWD-ISCWSA													Offset Well Error:	0.00 usft
Reference		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)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
11,200.00	9,698.25	14,979.00	10,508.93	35.04	84.85	-175.30	5,402.84	-85.54	3,755.83	3,705.80	50.04	75.061		
11,300.00	9,698.42	14,979.00	10,508.93	36.34	84.85	-175.30	5,402.84	-85.54	3,657.99	3,607.92	50.07	73.054		
11,400.00	9,698.60	14,979.00	10,508.93	37.67	84.85	-175.30	5,402.84	-85.54	3,560.26	3,510.15	50.11	71.047		
11,500.00	9,698.77	14,979.00	10,508.93	39.02	84.85	-175.30	5,402.84	-85.54	3,462.66	3,412.51	50.15	69.039		
11,600.00	9,698.94	14,979.00	10,508.93	40.40	84.85	-175.30	5,402.84	-85.54	3,365.21	3,315.01	50.20	67.032		
11,700.00	9,699.12	14,979.00	10,508.93	41.79	84.85	-175.30	5,402.84	-85.54	3,267.91	3,217.65	50.26	65.024		
11,800.00	9,699.29	14,979.00	10,508.93	43.20	84.85	-175.30	5,402.84	-85.54	3,170.77	3,120.46	50.32	63.016		
11,900.00	9,699.47	14,979.00	10,508.93	44.62	84.85	-175.30	5,402.84	-85.54	3,073.82	3,023.44	50.38	61.009		
12,000.00	9,699.64	14,979.00	10,508.93	46.06	84.85	-175.30	5,402.84	-85.54	2,977.08	2,926.82	50.46	59.002		
12,100.00	9,699.82	14,979.00	10,508.93	47.51	84.85	-175.30	5,402.84	-85.54	2,880.55	2,830.01	50.54	56.995		
12,200.00	9,699.99	14,979.00	10,508.93	48.97	84.85	-175.30	5,402.84	-85.54	2,784.27	2,733.64	50.63	54.990		
12,300.00	9,700.17	14,979.00	10,508.93	50.45	84.85	-175.30	5,402.84	-85.54	2,688.26	2,637.52	50.73	52.986		
12,400.00	9,700.34	14,979.00	10,508.93	51.93	84.85	-175.30	5,402.84	-85.54	2,592.55	2,541.70	50.85	50.984		
12,500.00	9,700.52	14,979.00	10,508.93	53.42	84.85	-175.30	5,402.84	-85.54	2,497.18	2,446.20	50.98	48.984		
12,600.00	9,700.69	14,979.00	10,508.93	54.92	84.85	-175.30	5,402.84	-85.54	2,402.19	2,351.06	51.13	46.986		
12,700.00	9,700.86	14,979.00	10,508.93	56.43	84.85	-175.30	5,402.84	-85.54	2,307.61	2,256.32	51.29	44.991		
12,800.00	9,701.04	14,979.00	10,508.93	57.95	84.85	-175.30	5,402.84	-85.54	2,213.52	2,162.04	51.48	43.000		
12,900.00	9,701.21	14,979.00	10,508.93	59.47	84.85	-175.30	5,402.84	-85.54	2,119.97	2,068.28	51.69	41.013		
13,000.00	9,701.39	14,979.00	10,508.93	61.00	84.85	-175.30	5,402.84	-85.54	2,027.03	1,975.09	51.93	39.032		
13,100.00	9,701.56	14,979.00	10,508.93	62.53	84.85	-175.30	5,402.84	-85.54	1,934.79	1,882.58	52.21	37.057		
13,200.00	9,701.74	14,979.00	10,508.93	64.07	84.85	-175.30	5,402.84	-85.54	1,843.37	1,790.84	52.53	35.091		
13,300.00	9,701.91	14,979.00	10,508.93	65.61	84.85	-175.30	5,402.84	-85.54	1,752.88	1,699.98	52.90	33.137		
13,400.00	9,702.09	14,979.00	10,508.93	67.16	84.85	-175.30	5,402.84	-85.54	1,663.49	1,610.16	53.32	31.196		
13,500.00	9,702.26	14,979.00	10,508.93	68.71	84.85	-175.30	5,402.84	-85.54	1,575.36	1,521.55	53.82	29.273		
13,600.00	9,702.44	14,979.00	10,508.93	70.27	84.85	-175.30	5,402.84	-85.54	1,488.74	1,434.36	54.39	27.374		
13,700.00	9,702.61	14,979.00	10,508.93	71.83	84.85	-175.30	5,402.84	-85.54	1,403.90	1,348.85	55.05	25.504		
13,800.00	9,702.78	14,979.00	10,508.93	73.39	84.85	-175.30	5,402.84	-85.54	1,321.18	1,265.37	55.81	23.672		
13,900.00	9,702.96	14,979.00	10,508.93	74.96	84.85	-175.30	5,402.84	-85.54	1,241.01	1,183.90	57.11	21.729		
14,000.00	9,703.13	14,979.00	10,508.93	76.52	84.85	-175.30	5,402.84	-85.54	1,163.92	1,105.16	58.75	19.810		
14,100.00	9,703.31	14,979.00	10,508.93	78.10	84.85	-175.30	5,402.84	-85.54	1,090.54	1,029.94	60.61	17.994		
14,200.00	9,703.48	14,979.00	10,508.93	79.67	84.85	-175.30	5,402.84	-85.54	1,021.70	959.03	62.67	16.303		
14,300.00	9,703.66	14,979.00	10,508.93	81.25	84.85	-175.30	5,402.84	-85.54	958.36	893.44	64.92	14.761		
14,400.00	9,703.83	14,979.00	10,508.93	82.83	84.85	-175.30	5,402.84	-85.54	901.69	834.39	67.30	13.398		
14,500.00	9,704.01	14,979.00	10,508.93	84.41	84.85	-175.30	5,402.84	-85.54	853.01	783.32	69.70	12.239		
14,600.00	9,704.18	14,979.00	10,508.93	85.99	84.85	-175.30	5,402.84	-85.54	813.77	741.83	71.93	11.313		
14,700.00	9,704.35	14,979.00	10,508.93	87.58	84.85	-175.30	5,402.84	-85.54	785.37	711.56	73.80	10.641		
14,800.00	9,704.53	14,979.00	10,508.93	89.16	84.85	-175.30	5,402.84	-85.54	769.02	693.93	75.08	10.242		
14,877.07	9,704.66	14,979.00	10,508.93	90.39	84.85	-175.30	5,402.84	-85.54	765.15	689.59	75.56	10.126		
14,900.00	9,704.70	14,979.00	10,508.93	90.75	84.85	-175.30	5,402.84	-85.54	765.49	689.88	75.61	10.124		
15,000.00	9,704.88	14,991.99	10,513.62	92.34	83.37	-175.62	5,489.65	-81.92	770.20	694.76	75.44	10.209		
15,100.00	9,705.05	14,776.09	10,518.53	93.94	81.39	-175.96	5,605.37	-78.18	774.01	698.76	75.25	10.286		
15,200.00	9,705.23	14,635.48	10,518.21	95.53	79.02	-176.21	5,745.94	-75.35	773.21	698.21	75.00	10.310		
15,300.00	9,705.40	14,531.74	10,515.42	97.13	77.32	-176.34	5,849.63	-73.79	770.21	695.31	74.91	10.282		
15,400.00	9,705.58	14,446.02	10,513.58	98.72	75.95	-176.49	5,935.31	-71.98	767.79	692.89	74.89	10.252		
15,455.02	9,705.67	14,400.45	10,513.52	99.60	75.21	-176.62	5,980.86	-70.46	767.48	692.61	74.87	10.251		
15,500.00	9,705.75	14,360.40	10,513.83	100.32	74.55	-176.77	6,020.86	-68.69	767.63	692.81	74.82	10.259		
15,600.00	9,705.93	14,237.85	10,514.30	101.92	72.50	-177.30	6,143.23	-62.11	767.69	693.14	74.56	10.297		
15,700.00	9,706.10	14,146.00	10,512.22	103.52	71.01	-177.61	6,234.97	-58.18	765.13	690.64	74.49	10.272		
15,771.53	9,706.23	14,083.49	10,511.51	104.66	70.03	-177.80	6,297.43	-55.89	764.14	689.68	74.46	10.262		
15,800.00	9,706.27	14,057.00	10,511.76	105.12	69.61	-177.88	6,323.90	-54.99	764.31	689.87	74.44	10.267		
15,900.00	9,706.45	13,967.00	10,513.33	106.72	68.21	-178.11	6,413.85	-52.32	765.71	691.31	74.40	10.292		

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 102H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3637.8' GE + 23.5' KB @ 3664.30usft (Original Well Elev)
Reference Site:	Thistle Unit	MD Reference:	3637.8' GE + 23.5' KB @ 3664.30usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	102H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Multi User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Thistle Unit (Offsets) - 71H - OH - OH													Offset Site Error: 0.00 usft
Survey Program: 126-MWD-ISCWSA													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)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
16,000.00	9,706.62	13,878.00	10,515.81	108.33	66.78	-178.29	6,502.79	-50.38	768.22	693.85	74.37	10.330	
16,100.00	9,706.80	13,755.05	10,517.37	109.93	64.81	-178.41	6,625.71	-49.24	769.17	694.88	74.29	10.354	
16,200.00	9,706.97	13,654.89	10,517.91	111.54	63.17	-178.44	6,725.87	-49.35	769.53	695.26	74.27	10.361	
16,300.00	9,707.15	13,537.67	10,516.89	113.14	61.20	-178.40	6,843.09	-50.31	768.51	694.30	74.21	10.356	
16,400.00	9,707.32	13,421.70	10,513.14	114.75	59.31	-178.29	6,958.98	-52.11	765.12	690.97	74.14	10.319	
16,500.00	9,707.50	13,327.93	10,509.27	116.36	57.85	-178.18	7,052.65	-53.85	760.88	686.69	74.19	10.256	
16,600.00	9,707.67	13,253.00	10,508.33	117.97	56.67	-178.10	7,127.55	-55.29	759.38	685.08	74.30	10.221	
16,700.00	9,707.85	13,136.39	10,507.19	119.58	54.77	-177.94	7,244.13	-57.80	758.33	684.06	74.27	10.211	
16,800.00	9,708.02	13,043.50	10,504.97	121.19	53.32	-177.78	7,336.95	-60.29	755.88	681.56	74.33	10.170	
16,842.79	9,708.09	13,011.76	10,504.78	121.88	52.85	-177.74	7,368.69	-60.85	755.57	681.20	74.37	10.160	
16,900.00	9,708.19	12,968.44	10,505.26	122.80	52.19	-177.73	7,412.01	-61.24	756.12	681.72	74.40	10.163	
17,000.00	9,708.37	12,885.51	10,508.16	124.41	50.89	-177.74	7,494.88	-61.55	759.37	684.95	74.42	10.204	
17,100.00	9,708.54	12,750.06	10,510.08	126.02	48.72	-177.65	7,630.29	-63.38	760.48	686.11	74.37	10.225	
17,200.00	9,708.72	12,636.15	10,508.47	127.64	46.92	-177.52	7,744.16	-65.56	758.96	684.60	74.36	10.206	
17,300.00	9,708.89	12,538.00	10,505.69	129.25	45.43	-177.37	7,842.25	-67.75	756.05	681.63	74.41	10.160	
17,400.00	9,709.07	12,447.00	10,504.58	130.86	44.13	-177.24	7,933.21	-69.82	754.72	680.23	74.49	10.132	
17,407.34	9,709.08	12,447.00	10,504.58	130.98	44.13	-177.24	7,933.21	-69.82	754.68	680.17	74.51	10.129	
17,500.00	9,709.24	12,372.39	10,505.84	132.48	43.03	-177.16	8,007.79	-71.19	756.07	681.50	74.57	10.139	
17,600.00	9,709.42	12,260.53	10,507.91	134.09	41.37	-177.04	8,119.61	-73.42	757.84	683.25	74.60	10.159	
17,700.00	9,709.59	12,164.36	10,508.98	135.71	40.02	-176.96	8,215.77	-74.85	758.84	684.20	74.64	10.166	
17,800.00	9,709.77	12,069.57	10,511.00	137.33	38.65	-176.97	8,310.54	-75.29	760.78	686.12	74.66	10.189	
17,900.00	9,709.94	11,950.52	10,512.18	138.94	36.93	-176.96	8,429.58	-75.90	761.61	686.96	74.65	10.203	
18,000.00	9,710.11	11,845.06	10,511.14	140.56	35.49	-176.97	8,535.02	-76.24	760.44	685.78	74.66	10.186	
18,100.00	9,710.29	11,738.32	10,509.84	142.18	34.09	-177.20	8,641.72	-73.58	758.90	684.31	74.59	10.174	
18,200.00	9,710.46	11,640.24	10,508.22	143.80	32.82	-177.40	8,739.75	-71.21	756.94	682.37	74.57	10.151	
18,300.00	9,710.64	11,540.58	10,506.38	145.42	31.61	-177.43	8,839.40	-71.09	754.90	680.29	74.60	10.119	
18,372.32	9,710.76	11,481.78	10,505.96	146.59	30.93	-177.45	8,898.19	-71.09	754.25	679.59	74.65	10.103	
18,400.00	9,710.81	11,457.68	10,506.09	147.04	30.65	-177.47	8,922.30	-70.97	754.33	679.67	74.67	10.103	
18,500.00	9,710.99	11,351.30	10,506.73	148.65	29.39	-177.63	9,028.66	-69.25	754.69	680.02	74.67	10.107	
18,600.00	9,711.16	11,235.26	10,504.92	150.27	28.15	-177.80	9,144.66	-67.42	752.81	678.13	74.68	10.081	
18,700.00	9,711.34	11,143.86	10,503.20	151.90	27.25	-178.11	9,235.97	-63.71	750.63	675.93	74.70	10.049	
18,800.00	9,711.51	11,037.87	10,502.29	153.52	26.19	-178.52	9,341.84	-58.75	749.47	674.75	74.72	10.030	
18,900.00	9,711.69	10,973.72	10,497.45	155.14	20.47	-142.20	10,116.40	-17.19	690.29	641.11	49.18	14.035	
19,000.00	9,711.86	10,899.24	10,482.97	156.76	20.46	-138.00	10,116.63	-17.13	590.49	540.97	49.52	11.924	
19,100.00	9,712.03	10,844.67	10,478.41	158.38	20.45	-132.92	10,116.85	-17.06	490.72	440.72	50.00	9.814	
19,200.00	9,712.21	10,780.03	10,473.78	160.00	20.44	-126.76	10,117.08	-17.00	391.01	340.21	50.79	7.698	
19,300.00	9,712.38	10,775.32	10,469.07	161.62	20.43	-119.35	10,117.32	-16.93	291.42	239.06	52.36	5.566	
19,400.00	9,712.56	10,770.52	10,464.28	163.25	20.42	-110.57	10,117.56	-16.87	192.14	135.73	56.41	3.406	
19,500.00	9,712.73	10,765.64	10,459.41	164.87	20.41	-100.54	10,117.81	-16.81	94.15	20.56	73.59	1.279 Level 3	
19,590.89	9,712.89	10,761.13	10,454.90	166.34	20.41	-90.69	10,118.04	-16.75	25.94	-160.70	186.65	0.139 Level 1, CC, ES, SF	
19,600.00	9,712.91	10,760.68	10,454.45	166.49	20.40	-89.69	10,118.07	-16.74	27.58	-149.66	177.24	0.156 Level 1	
19,700.00	9,713.08	10,755.63	10,449.40	168.12	20.39	-78.72	10,118.33	-16.68	112.28	43.55	68.73	1.634	
19,800.00	9,713.26	10,750.49	10,444.27	169.74	20.38	-68.40	10,118.60	-16.62	210.72	154.27	56.45	3.733	
19,900.00	9,713.43	10,745.25	10,439.05	171.36	20.37	-59.25	10,118.88	-16.56	310.07	256.79	53.28	5.819	
20,000.00	9,713.61	10,742.00	10,435.80	172.99	20.37	-54.31	10,119.05	-16.53	409.68	357.66	52.02	7.875	
20,100.00	9,713.78	10,735.39	10,429.19	174.61	20.35	-45.93	10,119.40	-16.46	509.38	457.82	51.56	9.879	
20,200.00	9,713.95	10,730.78	10,424.60	176.24	20.34	-41.23	10,119.64	-16.41	609.15	557.85	51.30	11.873	
20,300.00	9,714.13	10,726.31	10,420.13	177.86	20.33	-37.39	10,119.87	-16.36	708.95	657.76	51.19	13.850	
20,400.00	9,714.30	10,721.96	10,415.79	179.49	20.32	-34.21	10,120.08	-16.31	808.77	757.62	51.15	15.812	
20,500.00	9,714.48	10,717.74	10,411.57	181.11	20.32	-31.56	10,120.30	-16.27	908.61	857.46	51.16	17.762	

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 102H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3637.8' GE + 23.5' KB @ 3664.30usft (Original Well Elev)
Reference Site:	Thistle Unit	MD Reference:	3637.8' GE + 23.5' KB @ 3664.30usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	102H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Multi User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Thistle Unit (Offsets) - 71H - OH - OH														Offset Site Error: 0.00 usft
Survey Program: 126-MWD-ISCWSA														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)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
20,600.00	9,714.65	9,713.63	9,707.47	182.74	20.31	29.32	10,120.50	-16.23	1,008.46	957.27	51.19	19.699		
20,700.00	9,714.83	9,709.63	9,703.48	184.36	20.30	27.41	10,120.69	-16.19	1,108.32	1,057.07	51.25	21.626		
20,800.00	9,715.00	9,705.74	9,699.59	185.99	20.29	25.77	10,120.88	-16.15	1,208.19	1,156.87	51.32	23.543		
20,900.00	9,715.18	9,701.96	9,695.81	187.61	20.28	24.34	10,121.06	-16.11	1,308.07	1,256.67	51.40	25.449		
21,000.00	9,715.35	9,698.27	9,692.12	189.24	20.27	23.09	10,121.23	-16.07	1,407.95	1,356.46	51.49	27.345		
21,100.00	9,715.52	9,694.67	9,688.53	190.87	20.27	21.98	10,121.39	-16.04	1,507.83	1,456.25	51.58	29.231		
21,200.00	9,715.70	9,691.17	9,685.03	192.49	20.26	21.00	10,121.55	-16.00	1,607.72	1,556.04	51.68	31.107		
21,300.00	9,715.87	9,687.76	9,681.62	194.12	20.25	20.12	10,121.71	-15.97	1,707.62	1,655.83	51.79	32.974		
21,400.00	9,716.05	9,684.43	9,678.30	195.75	20.25	19.33	10,121.85	-15.94	1,807.52	1,755.62	51.89	34.832		
21,500.00	9,716.22	9,681.18	9,675.05	197.37	20.24	18.62	10,122.00	-15.91	1,907.42	1,855.42	52.00	36.679		
21,600.00	9,716.40	9,678.01	9,671.88	199.00	20.23	17.97	10,122.13	-15.88	2,007.32	1,955.21	52.11	38.518		
21,700.00	9,716.57	9,674.91	9,668.79	200.63	20.23	17.38	10,122.27	-15.85	2,107.23	2,055.00	52.23	40.346		
21,800.00	9,716.75	9,671.89	9,665.77	202.26	20.22	16.84	10,122.40	-15.82	2,207.14	2,154.80	52.34	42.166		
21,900.00	9,716.92	9,668.94	9,662.83	203.89	20.21	16.35	10,122.52	-15.79	2,307.05	2,254.59	52.46	43.976		
22,000.00	9,717.10	9,666.06	9,659.95	205.51	20.21	15.89	10,122.64	-15.77	2,406.97	2,354.39	52.58	45.777		
22,100.00	9,717.27	9,652.00	9,645.90	207.14	20.18	13.98	10,123.20	-15.64	2,506.92	2,454.16	52.76	47.513		
22,200.00	9,717.44	9,652.00	9,645.90	208.77	20.18	13.98	10,123.20	-15.64	2,606.83	2,553.96	52.87	49.310		
22,300.00	9,717.62	9,652.00	9,645.90	210.40	20.18	13.98	10,123.20	-15.64	2,706.74	2,653.76	52.97	51.096		
22,400.00	9,717.79	9,652.00	9,645.90	212.03	20.18	13.98	10,123.20	-15.64	2,806.65	2,753.57	53.08	52.872		
22,500.00	9,717.97	9,652.00	9,645.90	213.66	20.18	13.98	10,123.20	-15.64	2,906.58	2,853.38	53.20	54.638		
22,600.00	9,718.14	9,649.08	9,642.98	215.28	20.17	13.65	10,123.32	-15.61	3,006.50	2,953.18	53.32	56.381		
22,700.00	9,718.32	9,645.28	9,639.19	216.91	20.17	13.23	10,123.46	-15.58	3,106.43	3,052.97	53.46	58.111		
22,800.00	9,718.49	9,641.47	9,635.38	218.54	20.16	12.84	10,123.61	-15.54	3,206.36	3,152.77	53.59	59.832		
22,900.00	9,718.67	9,637.66	9,631.57	220.17	20.15	12.47	10,123.76	-15.50	3,306.29	3,252.56	53.72	61.543		
23,000.00	9,718.84	9,633.84	9,627.76	221.80	20.14	12.13	10,123.91	-15.46	3,406.21	3,352.36	53.86	63.245		
23,100.00	9,719.02	9,630.02	9,623.93	223.43	20.13	11.80	10,124.06	-15.42	3,506.14	3,452.15	53.99	64.938		
23,200.00	9,719.19	9,626.18	9,620.11	225.06	20.13	11.49	10,124.21	-15.38	3,606.07	3,551.94	54.13	66.622		
23,300.00	9,719.36	9,622.35	9,616.27	226.69	20.12	11.20	10,124.36	-15.33	3,706.00	3,651.73	54.26	68.297		
23,400.00	9,719.54	9,618.50	9,612.43	228.32	20.11	10.92	10,124.51	-15.29	3,805.92	3,751.52	54.40	69.963		
23,500.00	9,719.71	9,614.65	9,608.58	229.95	20.10	10.66	10,124.66	-15.24	3,905.85	3,851.31	54.54	71.620		
23,600.00	9,719.89	9,610.80	9,604.73	231.58	20.09	10.41	10,124.81	-15.19	4,005.78	3,951.11	54.67	73.268		
23,700.00	9,720.06	9,606.94	9,600.87	233.21	20.09	10.17	10,124.97	-15.14	4,105.71	4,050.89	54.81	74.907		
23,800.00	9,720.24	9,603.07	9,597.01	234.84	20.08	9.95	10,125.12	-15.08	4,205.63	4,150.68	54.95	76.536		
23,900.00	9,720.41	9,599.20	9,593.14	236.47	20.07	9.73	10,125.27	-15.03	4,305.56	4,250.47	55.09	78.158		
24,000.00	9,720.59	9,595.32	9,589.26	238.10	20.06	9.53	10,125.42	-14.97	4,405.49	4,350.26	55.23	79.770		
24,100.00	9,720.76	9,591.43	9,585.38	239.73	20.05	9.33	10,125.58	-14.91	4,505.42	4,450.05	55.37	81.374		
24,200.00	9,720.94	9,587.54	9,581.49	241.36	20.05	9.14	10,125.73	-14.85	4,605.34	4,549.84	55.51	82.968		
24,300.00	9,721.11	9,583.64	9,577.60	242.99	20.04	8.97	10,125.88	-14.79	4,705.27	4,649.62	55.65	84.555		
24,400.00	9,721.28	9,579.73	9,573.70	244.62	20.03	8.80	10,126.04	-14.73	4,805.20	4,749.41	55.79	86.132		
24,500.00	9,721.46	9,575.82	9,569.79	246.25	20.02	8.63	10,126.19	-14.67	4,905.13	4,849.20	55.93	87.701		
24,600.00	9,721.63	9,571.91	9,565.87	247.88	20.01	8.48	10,126.35	-14.60	5,005.05	4,948.98	56.07	89.261		
24,700.00	9,721.81	9,567.98	9,561.95	249.51	20.01	8.33	10,126.50	-14.53	5,104.98	5,048.77	56.21	90.813		
24,800.00	9,721.98	9,564.05	9,558.03	251.14	20.00	8.18	10,126.66	-14.46	5,204.91	5,148.55	56.36	92.357		
24,810.04	9,722.00	9,563.66	9,557.63	251.31	20.00	8.17	10,126.68	-14.45	5,214.94	5,158.57	56.37	92.511		

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

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Anticollision Report

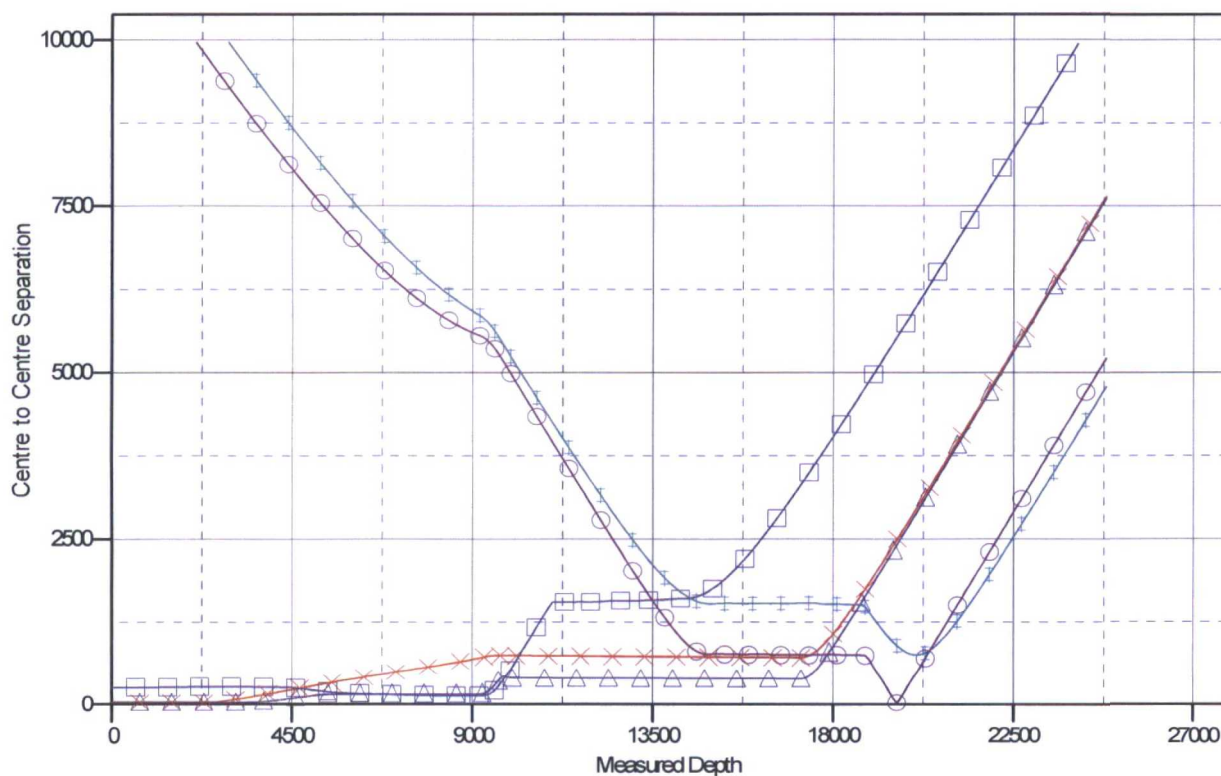
Company: Devon Energy
Project: Lea County, NM (NAD-83)
Reference Site: Thistle Unit
Site Error: 0.00 usft
Reference Well: 102H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Plan #1

Local Co-ordinate Reference: Well 102H
TVD Reference: 3637.8' GE + 23.5' KB @ 3664.30usft (Original Well Elev)
MD Reference: 3637.8' GE + 23.5' KB @ 3664.30usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDM 5000.1 Multi User Db
Offset TVD Reference: Offset Datum

Reference Depths are relative to 3637.8' GE + 23.5' KB @ 3664.30usft
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: 102H
Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Grid Convergence at Surface is: 0.42°

Ladder Plot



LEGEND

117H, OH, Plan #1 V0 50H, OH, OH V0 71H, OH, OH V0
138H, OH, Plan #1 V0 58H, OH, OH V0

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

LEAM Drilling Systems LLC

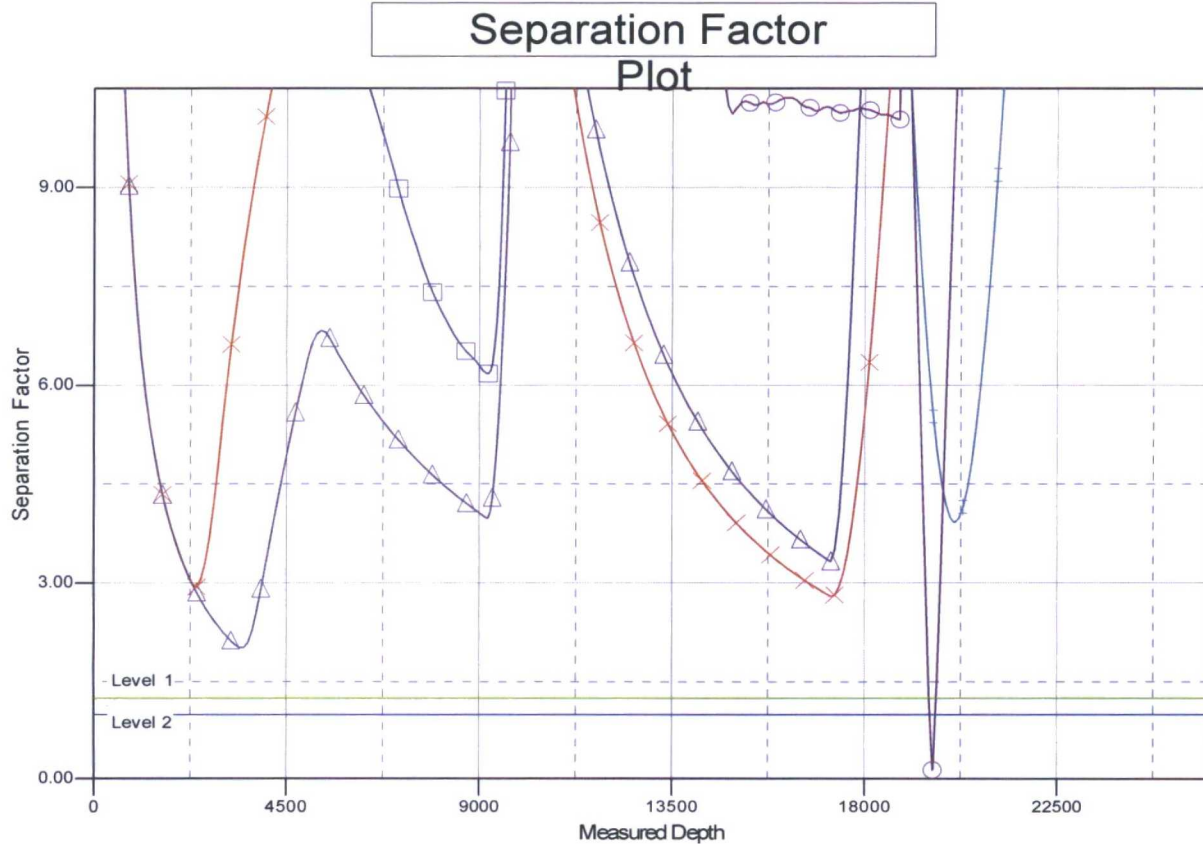
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LEGEND

✕ 117H, OH, Plan #1 V0 ◻ 50H, OH, OH V0 ● 71H, OH, OH V0
◄ 138H, OH, Plan #1 V0 ◈ 58H, OH, OH V0