

Devon Energy

Lea County, NM (NAD-83)

Thistle Unit Sec 22-27 Trac Pad

Thistle Unit 125H

OH

Plan #2

Anticollision Report

20 September, 2017

LEAM Drilling Systems LLC

Anticollision Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well Thistle Unit 125H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3711.2' GE + 23.5' KB @ 3734.70usft
Reference Site:	Thistle Unit Sec 22-27 Trac Pad	MD Reference:	3711.2' GE + 23.5' KB @ 3734.70usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Thistle Unit 125H	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 #2	Offset TVD Reference:	Offset Datum

Reference	Plan #2		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 9,999.98 usft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program		Date	9/20/2017		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	17,557.62	Plan #2 (OH)	LEAM MWD+HDGM	MWD+HDGM	

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Thistle Unit						
26H - OH - OH	8,994.11	13,431.00	621.44	527.66	6.627	CC, ES, SF
Thistle Unit (Offsets)						
55H - OH - OH	14,806.92	10,127.44	594.94	511.17	7.102	CC, ES, SF
61H - OH - OH	14,718.77	10,130.16	496.52	394.78	4.880	CC, ES, SF
Thistle Unit Sec 22-27 Trac Pad						
Thistle Unit 110H - OH - Plan #2	3,416.60	3,416.80	29.99	14.91	1.989	CC
Thistle Unit 110H - OH - Plan #2	3,500.00	3,500.00	29.99	14.54	1.940	ES
Thistle Unit 110H - OH - Plan #2	3,600.00	3,599.74	30.75	14.85	1.934	SF
Thistle Unit 114H - OH - Plan #2	4,000.00	4,000.30	329.91	312.20	18.634	CC, ES
Thistle Unit 114H - OH - Plan #2	17,557.62	17,069.55	713.23	491.09	3.211	SF
Thistle Unit 142H - OH - Plan #2	2,500.00	2,498.80	59.99	49.03	5.475	CC, ES
Thistle Unit 142H - OH - Plan #2	17,557.62	16,967.99	714.25	571.95	5.019	SF
Thistle Unit 160H - OH - Plan #2	3,000.00	2,999.10	59.96	46.75	4.540	CC, ES
Thistle Unit 160H - OH - Plan #2	3,200.00	3,197.74	62.15	48.06	4.411	SF
Thistle Unit 86H - OH - Plan #2	3,500.00	3,499.20	30.02	14.57	1.943	CC
Thistle Unit 86H - OH - Plan #2	3,600.00	3,598.99	30.36	14.46	1.909	ES, SF

Offset Design													
Thistle Unit - 26H - OH - OH													
Survey Program: 160-MWD-ISCWSA, 5394-LEAM MWD+HDGM, 13431-Project													
Reference		Offset		Semi Major Axis		Highside		Offset Wellbore Centre		Distance		Minimum Separation	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (")	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-173.73	-4,852.51	-532.91	4,881.69				
100.00	100.00	82.61	82.61	0.09	0.08	-173.73	-4,852.60	-532.84	4,881.78	4,881.62	0.17	N/A	
200.00	200.00	177.27	177.27	0.31	0.19	-173.74	-4,852.93	-532.61	4,882.10	4,881.60	0.50	9,799.274	
300.00	300.00	319.31	319.30	0.54	0.48	-173.74	-4,852.87	-532.24	4,882.04	4,881.02	1.02	4,803.812	
400.00	400.00	415.79	415.78	0.76	0.68	-173.74	-4,852.34	-531.86	4,881.46	4,880.02	1.44	3,387.299	
500.00	500.00	508.32	508.31	0.99	0.87	-173.75	-4,852.03	-531.49	4,881.07	4,879.21	1.86	2,625.558	
600.00	600.00	606.79	606.78	1.21	1.09	-173.76	-4,851.83	-530.67	4,880.79	4,878.49	2.30	2,126.085	
700.00	700.00	713.62	713.61	1.43	1.31	-173.77	-4,851.54	-529.45	4,880.39	4,877.64	2.75	1,774.876	
800.00	800.00	806.14	806.11	1.66	1.51	-173.79	-4,851.37	-528.24	4,880.06	4,876.89	3.17	1,538.663	
900.00	900.00	904.95	904.91	1.88	1.72	-173.80	-4,851.23	-526.89	4,879.78	4,876.17	3.60	1,353.903	
1,000.00	1,000.00	994.32	994.28	2.11	1.91	-173.82	-4,851.24	-525.67	4,879.64	4,875.62	4.01	1,215.451	

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

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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 #2	Offset TVD Reference:	Offset Datum

Offset Design Thistle Unit - 26H - OH - OH													Offset Site Error: 0.00 usft
Survey Program: 160-MWD-ISCWSA, 5394-LEAM MWD+HDGM, 13431-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)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
1,011.15	1,011.15	1,004.09	1,004.05	2.13	1.93	-173.82	-4,851.25	-525.55	4,879.63	4,875.57	4.06	1,201.926	
1,100.00	1,100.00	1,082.59	1,082.54	2.33	2.09	-173.83	-4,851.42	-524.80	4,879.73	4,875.31	4.42	1,103.765	
1,200.00	1,200.00	1,179.81	1,179.76	2.56	2.29	-173.83	-4,851.74	-524.33	4,880.01	4,875.17	4.84	1,007.352	
1,300.00	1,300.00	1,282.30	1,282.25	2.78	2.50	-173.83	-4,851.95	-524.30	4,880.21	4,874.93	5.28	924.149	
1,400.00	1,400.00	1,388.53	1,388.48	3.01	2.72	-173.83	-4,852.18	-524.47	4,880.45	4,874.72	5.73	852.154	
1,500.00	1,500.00	1,503.43	1,503.38	3.23	2.96	-173.83	-4,852.07	-524.30	4,880.33	4,874.14	6.19	788.176	
1,600.00	1,600.00	1,608.85	1,608.80	3.46	3.18	-173.83	-4,851.74	-524.84	4,880.07	4,873.44	6.64	735.262	
1,700.00	1,700.00	1,723.03	1,722.97	3.68	3.42	-173.82	-4,851.13	-525.70	4,879.62	4,872.52	7.10	687.001	
1,800.00	1,800.00	1,825.02	1,824.96	3.91	3.63	-173.80	-4,850.35	-526.66	4,878.96	4,871.42	7.54	646.879	
1,900.00	1,900.00	1,922.25	1,922.18	4.13	3.84	-173.79	-4,849.63	-527.60	4,878.33	4,870.36	7.97	611.975	
2,000.00	2,000.00	2,026.12	2,026.04	4.36	4.06	-173.78	-4,848.85	-528.69	4,877.70	4,869.28	8.42	579.545	
2,100.00	2,100.00	2,131.96	2,131.87	4.58	4.28	-173.76	-4,847.94	-529.84	4,876.96	4,868.10	8.86	550.243	
2,200.00	2,200.00	2,241.58	2,241.48	4.81	4.51	-173.75	-4,846.80	-531.00	4,876.04	4,866.73	9.32	523.243	
2,300.00	2,300.00	2,345.19	2,345.07	5.03	4.73	-173.73	-4,845.59	-532.33	4,875.03	4,865.26	9.77	499.228	
2,400.00	2,400.00	2,459.47	2,459.32	5.26	4.98	-173.71	-4,844.04	-534.09	4,873.85	4,863.61	10.24	476.153	
2,500.00	2,500.00	2,568.30	2,568.13	5.48	5.21	-173.69	-4,842.21	-535.84	4,872.35	4,861.65	10.69	455.596	
2,600.00	2,600.00	2,686.94	2,686.72	5.71	5.47	-173.66	-4,839.95	-537.89	4,870.65	4,859.48	11.18	435.828	
2,700.00	2,700.00	2,809.05	2,808.78	5.93	5.73	-173.63	-4,837.04	-540.28	4,868.49	4,856.83	11.67	417.343	
2,800.00	2,800.00	2,934.24	2,933.90	6.15	6.01	-173.59	-4,833.45	-542.91	4,865.89	4,853.72	12.16	400.090	
2,900.00	2,900.00	3,040.50	3,040.07	6.38	6.24	-173.56	-4,829.95	-545.26	4,862.86	4,850.24	12.62	385.467	
3,000.00	3,000.00	3,151.51	3,150.98	6.60	6.48	-173.52	-4,826.18	-547.87	4,859.75	4,846.67	13.08	371.559	
3,100.00	3,100.00	3,277.37	3,276.71	6.83	6.76	-173.48	-4,821.31	-551.16	4,856.19	4,842.61	13.58	357.586	
3,200.00	3,200.00	3,391.41	3,390.60	7.05	7.02	-173.43	-4,816.51	-554.34	4,852.33	4,838.27	14.06	345.211	
3,300.00	3,300.00	3,521.84	3,520.83	7.28	7.31	-173.38	-4,810.31	-558.01	4,847.93	4,833.36	14.57	332.833	
3,400.00	3,400.00	3,624.68	3,623.49	7.50	7.54	-173.34	-4,805.04	-561.00	4,843.17	4,828.16	15.01	322.612	
3,500.00	3,500.00	3,761.47	3,760.01	7.73	7.85	-173.28	-4,797.43	-565.11	4,837.98	4,822.45	15.53	311.508	
3,600.00	3,600.00	3,869.66	3,867.95	7.95	8.09	-173.23	-4,790.91	-568.41	4,832.35	4,816.36	15.99	302.172	
3,700.00	3,700.00	3,968.85	3,966.92	8.18	8.31	-173.19	-4,784.91	-571.05	4,826.65	4,810.22	16.43	293.823	
3,800.00	3,800.00	4,068.02	4,065.87	8.40	8.54	-173.15	-4,778.93	-573.80	4,820.99	4,804.13	16.86	285.861	
3,900.00	3,900.00	4,169.96	4,167.58	8.63	8.77	-173.11	-4,772.74	-576.80	4,815.31	4,798.00	17.31	278.198	
4,000.00	4,000.00	4,274.62	4,272.02	8.85	9.00	-173.07	-4,766.38	-579.36	4,809.56	4,791.81	17.75	270.951	
4,100.00	4,100.00	4,370.93	4,368.14	9.07	9.20	-135.91	-4,760.55	-581.11	4,804.40	4,786.23	18.17	264.393	
4,200.00	4,199.96	4,465.06	4,462.10	9.29	9.41	-135.94	-4,755.04	-582.19	4,800.61	4,782.03	18.59	258.293	
4,300.00	4,299.86	13,329.66	8,979.10	9.51	74.54	-82.07	-101.29	-695.01	4,738.12	4,700.11	38.00	124.676	
4,400.00	4,399.68	13,354.00	8,979.51	9.74	74.91	-87.65	-76.99	-696.37	4,639.07	4,600.78	38.29	121.150	
4,509.06	4,508.39	13,354.00	8,979.51	9.98	74.91	-95.87	-76.99	-696.37	4,530.96	4,492.55	38.42	117.946	
4,600.00	4,598.97	13,354.00	8,979.51	10.18	74.91	-95.87	-76.99	-696.37	4,440.85	4,402.32	38.52	115.274	
4,700.00	4,698.58	13,354.00	8,979.51	10.41	74.91	-95.87	-76.99	-696.37	4,341.80	4,303.15	38.65	112.327	
4,800.00	4,798.18	13,354.00	8,979.51	10.64	74.91	-95.87	-76.99	-696.37	4,242.80	4,204.00	38.79	109.372	
4,900.00	4,897.79	13,360.53	8,979.64	10.87	74.91	-95.40	-70.47	-696.74	4,143.84	4,104.90	38.94	106.429	
5,000.00	4,997.39	13,369.80	8,979.81	11.10	74.91	-94.71	-61.22	-697.27	4,044.91	4,005.82	39.09	103.483	
5,100.00	5,097.00	13,379.07	8,979.99	11.33	74.91	-94.01	-51.96	-697.79	3,946.01	3,906.76	39.25	100.529	
5,200.00	5,196.61	13,388.35	8,980.17	11.56	74.91	-93.30	-42.70	-698.31	3,847.15	3,807.72	39.43	97.570	
5,300.00	5,296.21	13,397.62	8,980.35	11.80	74.91	-92.57	-33.45	-698.84	3,748.32	3,708.70	39.62	94.608	
5,400.00	5,395.82	13,406.89	8,980.53	12.03	74.91	-91.83	-24.19	-699.36	3,649.54	3,609.71	39.82	91.645	
5,500.00	5,495.42	13,416.16	8,980.70	12.27	74.91	-91.07	-14.94	-699.89	3,550.80	3,510.76	40.04	88.682	
5,600.00	5,595.03	13,425.44	8,980.88	12.51	74.91	-90.30	-5.68	-700.41	3,452.10	3,411.83	40.27	85.722	
5,696.97	5,691.61	13,431.00	8,980.99	12.74	74.91	-89.83	-0.13	-700.72	3,356.45	3,315.94	40.51	82.854	
5,700.00	5,694.63	13,431.00	8,980.99	12.75	74.91	-89.65	-0.13	-700.72	3,353.46	3,312.95	40.52	82.765	
5,800.00	5,794.32	13,431.00	8,980.99	12.93	74.91	-83.84	-0.13	-700.72	3,254.91	3,214.13	40.78	79.816	
5,900.00	5,894.12	13,431.00	8,980.99	13.12	74.91	-78.33	-0.13	-700.72	3,156.48	3,115.41	41.07	76.865	
6,000.00	5,994.02	13,431.00	8,980.99	13.30	74.91	-73.20	-0.13	-700.72	3,058.21	3,016.84	41.38	73.914	

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Offset Design Thistle Unit - 26H - OH - OH													Offset Site Error: 0.00 usft
Survey Program: 160-MWD-ISCWSA, 5394-LEAM MWD+HDGM, 13431-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
6,100.00	6,093.98	13,431.00	8,980.99	13.48	74.91	-68.49	-0.13	-700.72	2,960.17	2,918.45	41.71	70.966	
6,206.02	6,200.00	13,431.00	8,980.99	13.67	74.91	-101.15	-0.13	-700.72	2,856.51	2,814.40	42.10	67.845	
6,300.00	6,293.98	13,431.00	8,980.99	13.85	74.91	-101.15	-0.13	-700.72	2,764.86	2,722.38	42.48	65.082	
6,400.00	6,393.98	13,431.00	8,980.99	14.08	74.91	-101.15	-0.13	-700.72	2,667.51	2,624.59	42.92	62.154	
6,500.00	6,493.98	13,431.00	8,980.99	14.30	74.91	-101.15	-0.13	-700.72	2,570.37	2,526.98	43.39	59.243	
6,600.00	6,593.98	13,431.00	8,980.99	14.52	74.91	-101.15	-0.13	-700.72	2,473.45	2,429.56	43.89	56.352	
6,700.00	6,693.98	13,431.00	8,980.99	14.74	74.91	-101.15	-0.13	-700.72	2,376.79	2,332.35	44.44	53.482	
6,800.00	6,793.98	13,431.00	8,980.99	14.96	74.91	-101.15	-0.13	-700.72	2,280.42	2,235.39	45.04	50.636	
6,900.00	6,893.98	13,431.00	8,980.99	15.18	74.91	-101.15	-0.13	-700.72	2,184.38	2,138.69	45.69	47.813	
7,000.00	6,993.98	13,431.00	8,980.99	15.40	74.91	-101.15	-0.13	-700.72	2,088.70	2,042.31	46.40	45.018	
7,100.00	7,093.98	13,431.00	8,980.99	15.62	74.91	-101.15	-0.13	-700.72	1,993.45	1,946.27	47.18	42.252	
7,200.00	7,193.98	13,431.00	8,980.99	15.85	74.91	-101.15	-0.13	-700.72	1,898.69	1,850.65	48.05	39.519	
7,300.00	7,293.98	13,431.00	8,980.99	16.07	74.91	-101.15	-0.13	-700.72	1,804.50	1,755.49	49.01	36.821	
7,400.00	7,393.98	13,431.00	8,980.99	16.29	74.91	-101.15	-0.13	-700.72	1,710.96	1,660.88	50.08	34.164	
7,500.00	7,493.98	13,431.00	8,980.99	16.51	74.91	-101.15	-0.13	-700.72	1,618.20	1,566.91	51.29	31.552	
7,600.00	7,593.98	13,431.00	8,980.99	16.73	74.91	-101.15	-0.13	-700.72	1,526.35	1,473.70	52.65	28.993	
7,700.00	7,693.98	13,431.00	8,980.99	16.96	74.91	-101.15	-0.13	-700.72	1,435.59	1,381.40	54.19	26.493	
7,800.00	7,793.98	13,431.00	8,980.99	17.18	74.91	-101.15	-0.13	-700.72	1,346.14	1,290.20	55.95	24.062	
7,900.00	7,893.98	13,431.00	8,980.99	17.40	74.91	-101.15	-0.13	-700.72	1,258.28	1,200.33	57.96	21.711	
8,000.00	7,993.98	13,431.00	8,980.99	17.62	74.91	-101.15	-0.13	-700.72	1,172.37	1,112.11	60.26	19.455	
8,100.00	8,093.98	13,431.00	8,980.99	17.84	74.91	-101.15	-0.13	-700.72	1,088.87	1,025.96	62.91	17.309	
8,200.00	8,193.98	13,431.00	8,980.99	18.07	74.91	-101.15	-0.13	-700.72	1,008.37	942.42	65.94	15.291	
8,300.00	8,293.98	13,431.00	8,980.99	18.29	74.91	-101.15	-0.13	-700.72	931.66	862.26	69.40	13.424	
8,400.00	8,393.98	13,431.00	8,980.99	18.51	74.91	-101.15	-0.13	-700.72	859.75	786.46	73.29	11.731	
8,500.00	8,493.98	13,431.00	8,980.99	18.73	74.91	-101.15	-0.13	-700.72	793.94	716.39	77.55	10.238	
8,600.00	8,593.98	13,431.00	8,980.99	18.96	74.91	-101.15	-0.13	-700.72	735.88	653.85	82.03	8.971	
8,700.00	8,693.98	13,431.00	8,980.99	19.18	74.91	-101.15	-0.13	-700.72	687.53	601.12	86.41	7.957	
8,800.00	8,793.98	13,431.00	8,980.99	19.40	74.91	-101.15	-0.13	-700.72	651.06	560.84	90.21	7.217	
8,900.00	8,893.98	13,431.00	8,980.99	19.63	74.91	-101.15	-0.13	-700.72	628.53	535.69	92.84	6.770	
8,994.11	8,988.09	13,431.00	8,980.99	19.83	74.91	-101.15	-0.13	-700.72	621.44	527.66	93.78	6.627 CC, ES, SF	
9,000.00	8,993.98	13,431.00	8,980.99	19.85	74.91	-101.15	-0.13	-700.72	621.47	527.69	93.79	6.627	
9,100.00	9,093.98	13,431.00	8,980.99	20.07	74.91	-101.15	-0.13	-700.72	630.40	537.54	92.86	6.789	
9,200.00	9,193.98	13,431.00	8,980.99	20.29	74.91	-101.15	-0.13	-700.72	654.66	564.35	90.31	7.249	
9,300.00	9,293.98	13,431.00	8,980.99	20.52	74.91	-101.15	-0.13	-700.72	692.65	605.97	86.68	7.991	
9,400.00	9,393.98	13,431.00	8,980.99	20.74	74.91	-101.15	-0.13	-700.72	742.25	659.69	82.56	8.990	
9,500.00	9,493.98	13,431.00	8,980.99	20.96	74.91	-101.15	-0.13	-700.72	801.32	722.90	78.42	10.218	
9,529.07	9,523.05	13,431.00	8,980.99	21.03	74.91	-101.15	-0.13	-700.72	819.99	742.72	77.26	10.613	
9,550.00	9,543.97	13,431.00	8,980.99	21.07	74.91	77.49	-0.13	-700.72	833.73	757.29	76.44	10.907	
9,600.00	9,593.79	13,431.00	8,980.99	21.15	74.91	73.13	-0.13	-700.72	867.22	792.66	74.57	11.630	
9,650.00	9,643.08	13,431.00	8,980.99	21.23	74.91	68.72	-0.13	-700.72	901.35	828.52	72.83	12.376	
9,700.00	9,691.45	13,431.00	8,980.99	21.30	74.91	64.36	-0.13	-700.72	935.79	864.55	71.24	13.136	
9,750.00	9,738.54	13,431.00	8,980.99	21.37	74.91	60.15	-0.13	-700.72	970.26	900.47	69.79	13.902	
9,800.00	9,783.99	13,431.00	8,980.99	21.44	74.91	56.15	-0.13	-700.72	1,004.52	936.03	68.49	14.666	
9,850.00	9,827.46	13,431.00	8,980.99	21.51	74.91	52.43	-0.13	-700.72	1,038.34	971.01	67.33	15.421	
9,900.00	9,868.60	13,417.59	8,980.73	21.57	74.91	48.39	-13.51	-699.97	1,071.42	1,005.17	66.25	16.171	
9,950.00	9,907.12	13,386.52	8,980.13	21.63	74.91	44.20	-44.53	-698.21	1,102.95	1,037.70	65.25	16.904	
10,000.00	9,942.72	13,351.85	8,979.47	21.69	74.87	40.58	-79.13	-696.25	1,132.45	1,068.11	64.34	17.601	
10,050.00	9,975.12	13,307.88	8,978.82	21.75	74.22	37.38	-123.03	-693.82	1,159.46	1,096.32	63.14	18.362	
10,100.00	10,004.08	13,260.00	8,978.51	21.84	73.51	34.75	-170.84	-691.28	1,183.54	1,121.50	62.05	19.075	
10,150.00	10,029.38	13,203.25	8,978.53	21.96	72.65	32.52	-227.50	-687.93	1,204.26	1,143.29	60.96	19.754	
10,200.00	10,050.82	13,149.75	8,978.79	22.11	71.85	30.82	-280.85	-684.07	1,221.25	1,161.24	60.01	20.350	
10,250.00	10,068.25	13,104.85	8,979.03	22.28	71.18	29.61	-325.63	-680.74	1,234.75	1,175.48	59.27	20.834	

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

LEAM Drilling Systems LLC

Anticollision Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well Thistle Unit 125H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3711.2' GE + 23.5' KB @ 3734.70usft
Reference Site:	Thistle Unit Sec 22-27 Trac Pad	MD Reference:	3711.2' GE + 23.5' KB @ 3734.70usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Thistle Unit 125H	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 #2	Offset TVD Reference:	Offset Datum

Offset Design Thistle Unit - 26H - OH - OH													Offset Site Error: 0.00 usft	
Survey Program: 160-MWD-ISCWSA, 5394-LEAM MWD+HDGM, 13431-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		
10,300.00	10,081.53	13,056.92	8,979.27	22.47	70.45	28.70	-373.44	-677.29	1,244.71	1,186.12	58.59	21.245		
10,350.00	10,090.56	13,003.38	8,979.95	22.69	69.63	28.09	-426.87	-673.97	1,250.85	1,192.88	57.96	21.580		
10,400.00	10,095.27	12,955.58	8,980.96	22.93	68.88	27.83	-474.60	-671.53	1,253.06	1,195.54	57.51	21.788		
10,425.46	10,096.00	12,934.30	8,981.31	23.06	68.55	27.79	-495.84	-670.42	1,252.80	1,195.45	57.35	21.847		
10,500.00	10,096.47	12,872.28	8,981.73	23.47	67.57	27.67	-557.76	-666.93	1,251.07	1,194.18	56.89	21.991		
10,600.00	10,097.10	12,788.00	8,980.34	24.11	66.27	27.40	-641.80	-660.75	1,250.01	1,193.76	56.25	22.222		
10,700.00	10,097.73	12,637.77	8,980.66	24.84	64.05	26.96	-791.56	-649.22	1,247.07	1,192.14	54.93	22.702		
10,800.00	10,098.36	12,528.35	8,983.88	25.66	62.38	26.72	-900.64	-641.19	1,242.00	1,187.82	54.18	22.922		
10,900.00	10,098.99	12,439.41	8,986.25	26.55	61.05	26.50	-989.27	-634.24	1,237.02	1,183.31	53.71	23.031		
11,000.00	10,099.62	12,355.60	8,987.85	27.51	59.77	26.32	-1,072.89	-628.73	1,233.27	1,179.91	53.36	23.112		
11,100.00	10,100.25	12,278.51	8,988.45	28.54	58.58	26.16	-1,149.85	-624.34	1,230.99	1,177.86	53.13	23.171		
11,151.74	10,100.58	12,241.77	8,988.01	29.09	58.00	26.07	-1,186.52	-622.19	1,230.67	1,177.63	53.04	23.202		
11,200.00	10,100.88	12,201.65	8,986.98	29.61	57.38	25.95	-1,226.56	-619.73	1,230.89	1,178.01	52.88	23.277		
11,300.00	10,101.51	12,102.00	8,983.87	30.74	55.84	25.62	-1,325.92	-612.95	1,231.64	1,179.27	52.37	23.520		
11,400.00	10,102.15	11,991.11	8,980.24	31.91	54.18	25.20	-1,436.40	-604.14	1,232.08	1,180.37	51.72	23.824		
11,500.00	10,102.78	11,882.24	8,978.00	33.12	52.54	24.80	-1,544.88	-595.29	1,231.37	1,180.25	51.13	24.084		
11,600.00	10,103.41	11,774.50	8,976.10	34.37	50.95	24.40	-1,652.23	-586.29	1,230.38	1,179.79	50.59	24.321		
11,700.00	10,104.04	11,677.16	8,975.78	35.65	49.55	24.15	-1,749.37	-580.05	1,228.92	1,178.63	50.29	24.436		
11,800.00	10,104.67	11,574.08	8,976.57	36.96	48.03	24.03	-1,852.37	-576.51	1,227.70	1,177.65	50.05	24.530		
11,900.00	10,105.30	11,476.78	8,978.39	38.29	46.55	24.03	-1,949.65	-575.16	1,226.30	1,176.35	49.95	24.550		
12,000.00	10,105.93	11,378.90	8,979.15	39.65	45.11	23.93	-2,047.47	-572.02	1,225.16	1,175.35	49.81	24.597		
12,100.00	10,106.56	11,247.63	8,982.49	41.02	43.22	23.87	-2,178.63	-568.59	1,222.60	1,173.21	49.39	24.754		
12,200.00	10,107.19	11,131.51	8,987.75	42.42	41.55	23.92	-2,294.61	-566.84	1,218.78	1,169.57	49.21	24.765		
12,300.00	10,107.82	11,021.13	8,994.52	43.83	39.90	23.94	-2,404.74	-563.89	1,212.91	1,163.83	49.08	24.714		
12,400.00	10,108.46	10,932.27	8,999.37	45.26	38.56	23.93	-2,493.43	-561.04	1,207.51	1,158.35	49.15	24.566		
12,500.00	10,109.09	10,850.43	9,002.51	46.70	37.33	23.86	-2,575.14	-557.76	1,203.27	1,153.99	49.28	24.417		
12,600.00	10,109.72	10,767.23	9,003.83	48.15	36.10	23.73	-2,658.22	-553.71	1,200.70	1,151.34	49.36	24.327		
12,700.00	10,110.35	10,671.34	9,003.86	49.62	34.72	23.49	-2,753.93	-547.69	1,199.02	1,149.76	49.25	24.344		
12,800.00	10,110.98	10,561.84	9,003.37	51.09	33.23	23.11	-2,863.06	-538.79	1,197.09	1,148.13	48.95	24.453		
12,900.00	10,111.61	10,409.88	9,006.70	52.58	31.14	22.63	-3,014.42	-525.91	1,192.69	1,144.51	48.17	24.759		
13,000.00	10,112.24	10,330.00	9,009.66	54.07	29.97	22.38	-3,093.92	-518.74	1,186.70	1,138.41	48.28	24.578		
13,100.00	10,112.87	10,243.11	9,011.58	55.58	28.73	22.09	-3,180.43	-510.92	1,182.10	1,133.79	48.31	24.469		
13,200.00	10,113.50	10,161.59	9,011.96	57.09	27.63	21.76	-3,261.58	-503.10	1,178.94	1,130.55	48.40	24.359		
13,300.00	10,114.13	10,060.12	9,011.26	58.60	26.37	21.31	-3,362.54	-493.00	1,176.78	1,128.52	48.26	24.385		
13,400.00	10,114.77	9,924.22	9,014.06	60.13	24.68	20.87	-3,497.92	-481.63	1,172.64	1,124.79	47.84	24.510		
13,500.00	10,115.40	9,825.54	9,017.71	61.66	23.42	20.58	-3,596.19	-473.41	1,167.07	1,119.18	47.89	24.370		
13,600.00	10,116.03	9,732.57	9,020.43	63.19	22.27	20.28	-3,688.78	-465.42	1,162.14	1,114.13	48.02	24.202		
13,700.00	10,116.66	9,638.95	9,022.90	64.73	21.15	19.95	-3,781.97	-456.92	1,157.40	1,109.25	48.16	24.033		
13,800.00	10,117.29	9,560.76	9,024.31	66.28	20.24	19.74	-3,859.97	-451.54	1,154.20	1,105.67	48.53	23.783		
13,900.00	10,117.92	9,476.61	9,024.57	67.82	19.35	19.52	-3,943.95	-446.22	1,152.60	1,103.72	48.88	23.580		
14,000.00	10,118.55	9,384.00	9,024.58	69.38	18.40	19.23	-4,036.31	-439.56	1,151.12	1,101.95	49.17	23.411		
14,038.05	10,118.79	9,348.85	9,024.42	69.97	18.04	19.11	-4,071.37	-437.04	1,150.73	1,101.44	49.30	23.343		
14,100.00	10,119.18	9,312.75	9,023.53	70.93	17.66	19.00	-4,107.39	-434.78	1,151.43	1,101.77	49.66	23.187		
14,200.00	10,119.81	9,265.00	9,020.85	72.50	17.18	18.87	-4,155.00	-432.60	1,156.02	1,105.71	50.31	22.976		
14,300.00	10,120.44	9,247.52	9,018.83	74.06	17.01	18.83	-4,172.37	-432.38	1,166.51	1,115.41	51.10	22.827		
14,400.00	10,121.08	9,234.00	9,016.72	75.63	16.88	18.80	-4,185.72	-432.42	1,183.66	1,131.87	51.79	22.857		
14,500.00	10,121.71	9,202.00	9,009.88	77.20	16.58	18.73	-4,216.96	-433.04	1,206.64	1,154.34	52.30	23.070		
14,600.00	10,122.34	9,170.00	9,000.49	78.77	16.30	18.65	-4,247.51	-434.40	1,235.81	1,183.07	52.74	23.433		
14,700.00	10,122.97	9,154.80	8,995.23	80.35	16.17	18.62	-4,261.75	-435.34	1,270.25	1,217.16	53.09	23.925		
14,800.00	10,123.60	9,139.00	8,989.31	81.92	16.04	18.58	-4,276.34	-436.53	1,309.93	1,256.58	53.35	24.555		
14,900.00	10,124.23	9,107.00	8,975.87	83.50	15.78	18.52	-4,305.22	-439.47	1,354.09	1,300.53	53.56	25.282		
15,000.00	10,124.86	9,076.00	8,961.12	85.09	15.54	18.47	-4,332.24	-443.09	1,402.81	1,349.08	53.73	26.108		

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 Thistle Unit 125H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3711.2' GE + 23.5' KB @ 3734.70usft
Reference Site:	Thistle Unit Sec 22-27 Trac Pad	MD Reference:	3711.2' GE + 23.5' KB @ 3734.70usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Thistle Unit 125H	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 #2	Offset TVD Reference:	Offset Datum

Offset Design Thistle Unit - 26H - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 160-MWD-ISCWSA, 5394-LEAM MWD+HDGM, 13431-Project													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)	(usft)			
15,100.00	10,125.49	9,064.05	8,955.02	86.67	15.46	18.45	-4,342.40	-444.70	1,455.20	1,401.44	53.77	27.064		
15,200.00	10,126.12	9,044.00	8,944.26	88.26	15.31	18.42	-4,359.08	-447.50	1,511.34	1,457.54	53.79	28.094		
15,300.00	10,126.75	9,025.14	8,933.50	89.85	15.19	18.38	-4,374.33	-450.20	1,570.83	1,517.05	53.78	29.211		
15,400.00	10,127.39	9,012.00	8,925.61	91.44	15.10	18.35	-4,384.66	-452.10	1,633.45	1,579.77	53.69	30.427		
15,500.00	10,128.02	8,981.00	8,905.74	93.03	14.91	18.27	-4,408.01	-456.63	1,699.11	1,645.42	53.69	31.644		
15,600.00	10,128.65	8,981.00	8,905.74	94.62	14.91	18.27	-4,408.01	-456.63	1,766.98	1,713.51	53.47	33.047		
15,700.00	10,129.28	8,962.03	8,892.79	96.22	14.81	18.21	-4,421.59	-459.42	1,837.35	1,783.98	53.37	34.428		
15,800.00	10,129.91	8,950.00	8,884.32	97.82	14.74	18.17	-4,429.95	-461.17	1,909.82	1,856.61	53.21	35.893		
15,900.00	10,130.54	8,924.00	8,865.43	99.41	14.60	18.07	-4,447.42	-464.90	1,984.11	1,930.95	53.16	37.326		
16,000.00	10,131.17	8,911.57	8,856.16	101.01	14.54	18.02	-4,455.51	-466.65	2,059.99	2,006.99	53.00	38.868		
16,100.00	10,131.80	8,893.00	8,842.06	102.61	14.45	17.94	-4,467.32	-469.22	2,137.35	2,084.46	52.89	40.407		
16,200.00	10,132.43	8,877.39	8,829.99	104.22	14.38	17.87	-4,476.99	-471.36	2,216.04	2,163.27	52.77	41.992		
16,300.00	10,133.06	8,861.00	8,817.12	105.82	14.31	17.80	-4,486.87	-473.61	2,295.97	2,243.30	52.66	43.597		
16,400.00	10,133.70	8,847.93	8,806.69	107.42	14.25	17.74	-4,494.55	-475.39	2,377.04	2,324.51	52.54	45.247		
16,500.00	10,134.33	8,830.00	8,792.14	109.03	14.18	17.65	-4,504.76	-477.75	2,459.23	2,406.77	52.45	46.884		
16,600.00	10,134.96	8,830.00	8,792.14	110.63	14.18	17.65	-4,504.76	-477.75	2,542.41	2,490.18	52.24	48.671		
16,700.00	10,135.59	8,810.75	8,776.22	112.24	14.10	17.55	-4,515.30	-480.17	2,626.45	2,574.27	52.18	50.334		
16,800.00	10,136.22	8,798.00	8,765.50	113.85	14.05	17.48	-4,522.03	-481.71	2,711.39	2,659.31	52.08	52.061		
16,900.00	10,136.85	8,786.16	8,755.46	115.46	14.01	17.41	-4,528.13	-483.11	2,797.10	2,745.11	51.98	53.807		
17,000.00	10,137.48	8,767.00	8,739.03	117.07	13.94	17.30	-4,537.76	-485.30	2,883.52	2,831.57	51.95	55.505		
17,100.00	10,138.11	8,756.79	8,730.20	118.68	13.91	17.24	-4,542.77	-486.43	2,970.51	2,918.66	51.86	57.282		
17,200.00	10,138.74	8,736.00	8,712.14	120.29	13.84	17.12	-4,552.83	-488.62	3,058.05	3,006.19	51.85	58.977		
17,300.00	10,139.37	8,720.01	8,698.16	121.90	13.79	17.02	-4,560.42	-490.21	3,146.04	3,094.22	51.82	60.715		
17,400.00	10,140.01	8,704.00	8,684.09	123.52	13.74	16.92	-4,567.90	-491.74	3,234.47	3,182.68	51.79	62.455		
17,500.00	10,140.64	8,704.00	8,684.09	125.13	13.74	16.92	-4,567.90	-491.74	3,323.46	3,271.81	51.65	64.341		
17,557.62	10,141.00	8,689.40	8,671.16	126.06	13.70	16.83	-4,574.55	-493.12	3,374.85	3,323.17	51.68	65.298		

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

LEAM Drilling Systems LLC

Anticollision Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well Thistle Unit 125H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3711.2' GE + 23.5' KB @ 3734.70usft
Reference Site:	Thistle Unit Sec 22-27 Trac Pad	MD Reference:	3711.2' GE + 23.5' KB @ 3734.70usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Thistle Unit 125H	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 #2	Offset TVD Reference:	Offset Datum

Offset Design Thistle Unit (Offsets) - 55H - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 100- VES GyroFlex V2, 10790-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)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)						
0.00	0.00	0.00	0.00	0.00	0.00	-172.00	-4,803.23	-675.21	4,850.46					
100.00	100.00	74.87	74.87	0.09	0.07	-172.00	-4,803.36	-675.20	4,850.61	4,850.46	0.15	N/A		
200.00	200.00	172.18	172.17	0.31	0.17	-172.00	-4,803.78	-675.14	4,851.03	4,850.55	0.48	N/A		
300.00	300.00	283.85	283.85	0.54	0.26	-172.00	-4,804.13	-675.03	4,851.33	4,850.53	0.80	6,083.053		
400.00	400.00	384.75	384.75	0.76	0.33	-172.00	-4,804.30	-674.81	4,851.46	4,850.38	1.08	4,486.866		
500.00	500.00	490.61	490.60	0.99	0.38	-172.01	-4,804.46	-674.31	4,851.55	4,850.19	1.36	3,578.001		
600.00	600.00	595.63	595.63	1.21	0.43	-172.02	-4,804.49	-673.82	4,851.52	4,849.89	1.62	2,992.852		
700.00	700.00	695.06	695.05	1.43	0.47	-172.02	-4,804.44	-673.64	4,851.43	4,849.56	1.88	2,582.810		
800.00	800.00	798.06	798.06	1.66	0.51	-172.02	-4,804.35	-673.48	4,851.33	4,849.20	2.13	2,273.253		
900.00	900.00	900.00	899.99	1.88	0.55	-172.02	-4,804.21	-673.29	4,851.17	4,848.78	2.39	2,031.559		
1,000.00	1,000.00	997.04	997.03	2.11	0.58	-172.02	-4,804.09	-673.13	4,851.02	4,848.38	2.64	1,837.783		
1,100.00	1,100.00	1,095.84	1,095.84	2.33	0.62	-172.03	-4,804.01	-672.96	4,850.92	4,848.02	2.89	1,677.658		
1,200.00	1,200.00	1,193.09	1,193.08	2.56	0.66	-172.03	-4,803.98	-672.74	4,850.85	4,847.71	3.14	1,543.824		
1,224.07	1,224.07	1,215.58	1,215.57	2.61	0.67	-172.03	-4,803.98	-672.69	4,850.85	4,847.65	3.20	1,514.936		
1,300.00	1,300.00	1,285.31	1,285.31	2.78	0.69	-172.03	-4,804.05	-672.53	4,850.90	4,847.51	3.39	1,430.752		
1,400.00	1,400.00	1,378.77	1,378.76	3.01	0.72	-172.03	-4,804.26	-672.38	4,851.10	4,847.46	3.64	1,333.085		
1,500.00	1,500.00	1,474.10	1,474.09	3.23	0.74	-172.03	-4,804.56	-672.39	4,851.41	4,847.52	3.89	1,247.585		
1,600.00	1,600.00	1,570.47	1,570.47	3.46	0.76	-172.03	-4,804.93	-672.50	4,851.81	4,847.67	4.14	1,172.169		
1,700.00	1,700.00	1,689.67	1,689.66	3.68	0.78	-172.03	-4,805.23	-672.92	4,852.12	4,847.72	4.39	1,104.376		
1,800.00	1,800.00	1,794.50	1,794.49	3.91	0.79	-172.02	-4,805.11	-673.51	4,852.08	4,847.44	4.64	1,045.728		
1,900.00	1,900.00	1,895.18	1,895.17	4.13	0.79	-172.02	-4,804.99	-673.87	4,852.01	4,847.13	4.88	993.444		
2,000.00	2,000.00	1,998.88	1,998.87	4.36	0.80	-172.01	-4,804.81	-674.34	4,851.90	4,846.77	5.13	946.132		
2,100.00	2,100.00	2,101.77	2,101.76	4.58	0.81	-172.00	-4,804.54	-674.89	4,851.72	4,846.35	5.37	903.235		
2,200.00	2,200.00	2,200.00	2,199.98	4.81	0.82	-172.00	-4,804.29	-675.35	4,851.53	4,845.92	5.61	864.236		
2,300.00	2,300.00	2,305.39	2,305.37	5.03	0.83	-171.99	-4,803.98	-675.86	4,851.30	4,845.45	5.86	828.306		
2,400.00	2,400.00	2,400.00	2,399.98	5.26	0.85	-171.99	-4,803.70	-676.27	4,851.08	4,844.98	6.10	795.508		
2,500.00	2,500.00	2,498.43	2,498.41	5.48	0.86	-171.98	-4,803.50	-676.64	4,850.93	4,844.59	6.34	765.131		
2,600.00	2,600.00	2,608.33	2,608.31	5.71	0.88	-171.98	-4,803.15	-677.07	4,850.67	4,844.09	6.58	736.759		
2,700.00	2,700.00	2,702.98	2,702.96	5.93	0.90	-171.97	-4,802.83	-677.43	4,850.38	4,843.55	6.83	710.676		
2,800.00	2,800.00	2,801.72	2,801.69	6.15	0.91	-171.97	-4,802.54	-677.86	4,850.16	4,843.09	7.07	686.315		
2,900.00	2,900.00	2,900.00	2,899.97	6.38	0.93	-171.96	-4,802.24	-678.46	4,849.93	4,842.62	7.31	663.590		
3,000.00	3,000.00	2,995.63	2,995.60	6.60	0.95	-171.95	-4,802.01	-678.95	4,849.77	4,842.22	7.55	642.388		
3,100.00	3,100.00	3,111.19	3,111.16	6.83	0.97	-171.95	-4,801.69	-679.23	4,849.53	4,841.74	7.79	622.158		
3,200.00	3,200.00	3,217.37	3,217.34	7.05	0.99	-171.95	-4,801.13	-679.43	4,849.03	4,840.99	8.04	603.145		
3,300.00	3,300.00	3,310.29	3,310.25	7.28	1.01	-171.94	-4,800.70	-679.53	4,848.59	4,840.31	8.28	585.384		
3,400.00	3,400.00	3,418.75	3,418.72	7.50	1.04	-171.94	-4,800.15	-679.68	4,848.11	4,839.58	8.53	568.385		
3,500.00	3,500.00	3,520.51	3,520.48	7.73	1.06	-171.94	-4,799.49	-680.02	4,847.51	4,838.74	8.78	552.413		
3,600.00	3,600.00	3,614.68	3,614.64	7.95	1.08	-171.93	-4,798.90	-680.47	4,846.96	4,837.94	9.02	537.429		
3,700.00	3,700.00	3,701.62	3,701.57	8.18	1.10	-171.92	-4,798.55	-680.83	4,846.62	4,837.36	9.26	523.373		
3,800.00	3,800.00	3,802.28	3,802.24	8.40	1.13	-171.92	-4,798.28	-681.19	4,846.41	4,836.90	9.50	509.945		
3,900.00	3,900.00	3,908.36	3,908.31	8.63	1.16	-171.91	-4,797.89	-681.74	4,846.11	4,836.36	9.75	497.136		
4,000.00	4,000.00	4,000.88	4,000.83	8.85	1.18	-171.91	-4,797.57	-682.21	4,845.84	4,835.85	9.99	485.088		
4,016.05	4,016.05	4,017.14	4,017.10	8.89	1.18	-134.73	-4,797.53	-682.28	4,845.83	4,835.80	10.03	483.226		
4,100.00	4,100.00	4,102.17	4,102.12	9.07	1.20	-134.73	-4,797.29	-682.71	4,846.25	4,836.02	10.23	473.763		
4,200.00	4,199.96	4,200.00	4,199.95	9.29	1.23	-134.73	-4,797.02	-683.19	4,847.89	4,837.42	10.47	463.205		
4,300.00	4,299.86	4,298.12	4,298.07	9.51	1.26	-134.74	-4,796.81	-683.58	4,850.80	4,840.10	10.70	453.204		
4,400.00	4,399.68	4,390.00	4,389.95	9.74	1.26	-134.76	-4,796.83	-683.71	4,855.14	4,844.22	10.93	444.381		
4,509.06	4,508.39	4,490.00	4,489.95	9.98	1.25	-134.79	-4,796.98	-683.24	4,861.33	4,850.16	11.17	435.302		
4,600.00	4,598.97	4,582.86	4,582.80	10.18	1.24	-134.87	-4,797.30	-682.54	4,867.25	4,855.88	11.37	428.097		
4,700.00	4,698.58	4,686.35	4,686.29	10.41	1.23	-134.96	-4,797.56	-681.29	4,873.61	4,862.01	11.59	420.334		
4,800.00	4,798.18	4,777.45	4,777.37	10.64	1.22	-135.04	-4,797.99	-679.68	4,880.12	4,868.30	11.82	412.860		
4,900.00	4,897.79	4,884.25	4,884.15	10.87	1.21	-135.15	-4,798.49	-677.42	4,886.60	4,874.56	12.05	405.614		

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

LEAM Drilling Systems LLC

Anticollision Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well Thistle Unit 125H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3711.2' GE + 23.5' KB @ 3734.70usft
Reference Site:	Thistle Unit Sec 22-27 Trac Pad	MD Reference:	3711.2' GE + 23.5' KB @ 3734.70usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Thistle Unit 125H	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 #2	Offset TVD Reference:	Offset Datum

Offset Design Thistle Unit (Offsets) - 55H - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 100- VES GyroFlex V2, 10790-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)		+N/-S (usft)	+E/-W (usft)						
5,000.00	4,997.39	4,963.68	4,963.55	11.10	1.21	-135.23	-4,799.02	-675.41	4,893.23	4,880.95	12.28	398.396		
5,100.00	5,097.00	5,049.09	5,048.92	11.33	1.22	-135.33	-4,799.93	-672.89	4,900.23	4,887.71	12.52	391.393		
5,200.00	5,196.61	5,144.09	5,143.87	11.56	1.22	-135.43	-4,801.14	-670.11	4,907.45	4,894.69	12.76	384.622		
5,300.00	5,296.21	5,247.88	5,247.61	11.80	1.23	-135.54	-4,802.39	-667.35	4,914.65	4,901.65	13.00	378.049		
5,400.00	5,395.82	5,344.99	5,344.69	12.03	1.24	-135.64	-4,803.47	-665.05	4,921.80	4,908.56	13.24	371.719		
5,500.00	5,495.42	5,438.57	5,438.24	12.27	1.24	-135.73	-4,804.63	-662.84	4,929.11	4,915.63	13.48	365.626		
5,600.00	5,595.03	5,541.46	5,541.10	12.51	1.25	-135.83	-4,805.92	-660.55	4,936.46	4,922.74	13.72	359.707		
5,696.97	5,691.61	5,642.38	5,641.99	12.74	1.26	-135.93	-4,807.06	-658.26	4,943.47	4,929.51	13.96	354.125		
5,700.00	5,694.63	5,645.33	5,644.93	12.75	1.26	-135.94	-4,807.09	-658.20	4,943.69	4,929.72	13.97	353.975		
5,800.00	5,794.32	5,746.09	5,745.66	12.93	1.27	-136.07	-4,808.19	-656.07	4,950.26	4,936.11	14.15	349.744		
5,900.00	5,894.12	5,855.57	5,855.12	13.12	1.28	-136.19	-4,809.26	-653.87	4,955.48	4,941.13	14.34	345.491		
6,000.00	5,994.02	5,965.22	5,964.75	13.30	1.30	-136.28	-4,810.02	-652.06	4,959.20	4,944.67	14.53	341.239		
6,100.00	6,093.98	6,067.52	6,067.03	13.48	1.31	-136.34	-4,810.60	-650.40	4,961.55	4,946.83	14.72	337.030		
6,206.02	6,200.00	6,181.32	6,180.82	13.67	1.33	-173.55	-4,811.13	-648.85	4,962.60	4,947.68	14.92	332.620		
6,300.00	6,293.98	6,267.36	6,266.86	13.85	1.34	-173.55	-4,811.43	-648.21	4,962.85	4,947.73	15.11	328.363		
6,400.00	6,393.98	6,362.36	6,361.85	14.08	1.35	-173.56	-4,811.93	-647.61	4,963.30	4,947.96	15.34	323.455		
6,500.00	6,493.98	6,465.96	6,465.45	14.30	1.37	-173.57	-4,812.46	-647.14	4,963.76	4,948.18	15.58	318.670		
6,600.00	6,593.98	6,561.60	6,561.10	14.52	1.38	-173.57	-4,812.89	-646.86	4,964.17	4,948.36	15.81	314.039		
6,700.00	6,693.98	6,662.40	6,661.89	14.74	1.39	-173.58	-4,813.46	-646.52	4,964.70	4,948.66	16.04	309.524		
6,800.00	6,793.98	6,768.03	6,767.51	14.96	1.41	-173.58	-4,813.93	-646.24	4,965.10	4,948.83	16.27	305.100		
6,900.00	6,893.98	6,867.45	6,866.94	15.18	1.42	-173.58	-4,814.31	-646.02	4,965.46	4,948.95	16.51	300.812		
7,000.00	6,993.98	6,974.61	6,974.10	15.40	1.44	-173.59	-4,814.69	-645.79	4,965.79	4,949.05	16.74	296.606		
7,100.00	7,093.98	7,075.44	7,074.93	15.62	1.46	-173.59	-4,814.90	-645.66	4,965.99	4,949.01	16.98	292.516		
7,200.00	7,193.98	7,173.84	7,173.33	15.85	1.47	-173.59	-4,815.14	-645.56	4,966.22	4,949.01	17.21	288.535		
7,300.00	7,293.98	7,269.27	7,268.75	16.07	1.49	-173.59	-4,815.42	-645.48	4,966.50	4,949.05	17.45	284.661		
7,400.00	7,393.98	7,367.67	7,367.16	16.29	1.50	-173.59	-4,815.79	-645.46	4,966.87	4,949.18	17.68	280.873		
7,500.00	7,493.98	7,460.96	7,460.44	16.51	1.52	-173.59	-4,816.17	-645.49	4,967.28	4,949.36	17.92	277.191		
7,600.00	7,593.98	7,552.46	7,551.94	16.73	1.53	-173.59	-4,816.71	-645.57	4,967.88	4,949.72	18.16	273.609		
7,700.00	7,693.98	7,637.90	7,637.37	16.96	1.54	-173.59	-4,817.37	-645.62	4,968.66	4,950.27	18.39	270.133		
7,800.00	7,793.98	7,719.54	7,719.01	17.18	1.56	-173.59	-4,818.36	-645.52	4,969.84	4,951.21	18.63	266.760		
7,900.00	7,893.98	7,817.99	7,817.45	17.40	1.58	-173.60	-4,819.75	-645.26	4,971.21	4,952.34	18.87	263.443		
8,000.00	7,993.98	7,921.53	7,920.98	17.62	1.60	-173.60	-4,821.17	-644.81	4,972.53	4,953.41	19.11	260.193		
8,100.00	8,093.98	8,016.41	8,015.86	17.84	1.62	-173.61	-4,822.50	-644.32	4,973.86	4,954.51	19.35	257.034		
8,200.00	8,193.98	8,100.00	8,099.43	18.07	1.63	-173.62	-4,823.84	-643.74	4,975.38	4,955.79	19.59	253.968		
8,300.00	8,293.98	8,191.87	8,191.28	18.29	1.65	-173.63	-4,825.56	-642.92	4,977.15	4,957.32	19.83	250.973		
8,400.00	8,393.98	8,296.45	8,295.83	18.51	1.68	-173.65	-4,827.63	-641.88	4,979.01	4,958.94	20.07	248.043		
8,500.00	8,493.98	8,398.18	8,397.54	18.73	1.70	-173.66	-4,829.54	-641.09	4,980.79	4,960.48	20.32	245.170		
8,600.00	8,593.98	8,484.28	8,483.62	18.96	1.72	-173.67	-4,831.25	-640.54	4,982.70	4,962.14	20.56	242.371		
8,700.00	8,693.98	8,585.91	8,585.23	19.18	1.75	-173.68	-4,833.43	-639.85	4,984.75	4,963.95	20.80	239.632		
8,800.00	8,793.98	8,673.97	8,673.26	19.40	1.77	-173.68	-4,835.34	-639.41	4,986.86	4,965.81	21.05	236.952		
8,900.00	8,893.98	8,765.88	8,765.15	19.63	1.79	-173.69	-4,837.54	-639.24	4,989.21	4,967.92	21.29	234.334		
9,000.00	8,993.98	8,858.22	8,857.46	19.85	1.81	-173.69	-4,839.83	-639.33	4,991.69	4,970.15	21.54	231.775		
9,100.00	9,093.98	8,951.71	8,950.91	20.07	1.83	-173.69	-4,842.28	-639.69	4,994.33	4,972.55	21.78	229.275		
9,200.00	9,193.98	9,068.81	9,067.98	20.29	1.85	-173.69	-4,845.33	-639.93	4,996.96	4,974.93	22.03	226.844		
9,300.00	9,293.98	9,246.07	9,245.21	20.52	1.89	-173.69	-4,847.91	-640.08	4,998.32	4,976.03	22.29	224.274		
9,400.00	9,393.98	9,353.63	9,352.77	20.74	1.91	-173.69	-4,848.67	-640.61	4,999.08	4,976.55	22.53	221.854		
9,500.00	9,493.98	9,460.70	9,459.83	20.96	1.92	-173.67	-4,849.11	-642.02	4,999.64	4,976.86	22.77	219.534		
9,529.07	9,523.05	9,490.36	9,489.48	21.03	1.92	-173.67	-4,849.21	-642.48	4,999.78	4,976.94	22.84	218.879		
9,550.00	9,543.97	9,512.84	9,511.96	21.07	1.92	6.76	-4,849.28	-642.85	4,999.51	4,976.62	22.89	218.445		
9,600.00	9,583.79	9,568.62	9,567.74	21.15	1.92	6.82	-4,849.40	-643.86	4,995.74	4,972.76	22.98	217.407		
9,650.00	9,643.08	9,628.88	9,627.99	21.23	1.92	6.95	-4,849.43	-645.06	4,987.60	4,964.53	23.07	216.184		
9,700.00	9,691.45	9,694.54	9,693.63	21.30	1.92	7.15	-4,849.26	-646.36	4,975.08	4,951.91	23.16	214.777		

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 Thistle Unit 125H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3711.2' GE + 23.5' KB @ 3734.70usft
Reference Site:	Thistle Unit Sec 22-27 Trac Pad	MD Reference:	3711.2' GE + 23.5' KB @ 3734.70usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Thistle Unit 125H	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 #2	Offset TVD Reference:	Offset Datum

Offset Design Thistle Unit (Offsets) - 55H - OH - OH												Offset Site Error:	0.00 usft
Survey Program: 100- VES GyroFlex V2, 10790-MWD-ISCWSA												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance		Minimum Separation		Separation Factor		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	Warning
9,750.00	9,738.54	9,776.10	9,775.18	21.37	1.92	7.44	-4,848.64	-647.79	4,958.18	4,934.91	23.26	213.135	
9,800.00	9,783.99	10,026.87	10,025.76	21.44	1.89	8.00	-4,840.17	-650.43	4,935.56	4,911.95	23.60	209.094	
9,850.00	9,827.46	10,084.23	10,083.05	21.51	1.89	8.51	-4,837.19	-650.09	4,908.82	4,885.11	23.70	207.094	
9,900.00	9,868.60	10,135.01	10,133.74	21.57	1.89	9.15	-4,834.47	-649.32	4,878.43	4,854.64	23.79	205.054	
9,950.00	9,907.12	10,180.91	10,179.57	21.63	1.89	9.98	-4,831.96	-648.25	4,844.67	4,820.79	23.87	202.956	
10,000.00	9,942.72	10,215.06	10,213.65	21.69	1.89	11.04	-4,830.07	-647.21	4,807.82	4,783.89	23.93	200.946	
10,050.00	9,975.12	10,240.01	10,238.55	21.75	1.89	12.42	-4,828.73	-646.34	4,768.25	4,744.29	23.96	198.991	
10,100.00	10,004.08	10,262.11	10,260.60	21.84	1.89	14.28	-4,827.57	-645.48	4,726.26	4,702.26	23.99	196.978	
10,150.00	10,029.38	10,281.19	10,279.63	21.96	1.89	16.90	-4,826.60	-644.67	4,682.15	4,658.13	24.02	194.920	
10,200.00	10,050.82	10,300.00	10,298.40	22.11	1.89	20.79	-4,825.66	-643.82	4,636.25	4,612.20	24.05	192.772	
10,250.00	10,068.25	10,300.00	10,298.40	22.28	1.89	26.72	-4,825.66	-643.82	4,588.92	4,564.88	24.04	190.893	
10,300.00	10,081.53	10,300.00	10,298.40	22.47	1.89	36.90	-4,825.66	-643.82	4,540.52	4,516.49	24.03	188.932	
10,350.00	10,090.56	10,300.00	10,298.40	22.69	1.89	55.99	-4,825.66	-643.82	4,491.40	4,467.37	24.03	186.903	
10,400.00	10,095.27	10,300.00	10,298.40	22.93	1.89	88.86	-4,825.66	-643.82	4,441.91	4,417.87	24.03	184.817	
10,425.46	10,096.00	10,300.00	10,298.40	23.06	1.89	107.28	-4,825.66	-643.82	4,416.68	4,392.64	24.04	183.735	
10,500.00	10,096.47	10,300.00	10,298.40	23.47	1.89	107.28	-4,825.66	-643.82	4,342.88	4,318.83	24.05	180.545	
10,600.00	10,097.10	10,300.00	10,298.40	24.11	1.89	107.28	-4,825.66	-643.82	4,243.92	4,219.84	24.08	176.239	
10,700.00	10,097.73	10,300.00	10,298.40	24.84	1.89	107.28	-4,825.66	-643.82	4,145.01	4,120.90	24.11	171.904	
10,800.00	10,098.36	10,300.00	10,298.40	25.66	1.89	107.28	-4,825.66	-643.82	4,046.15	4,022.00	24.15	167.541	
10,900.00	10,098.99	10,300.00	10,298.40	26.55	1.89	107.28	-4,825.66	-643.82	3,947.35	3,923.15	24.19	163.148	
11,000.00	10,099.62	10,300.00	10,298.40	27.51	1.89	107.28	-4,825.66	-643.82	3,848.61	3,824.36	24.25	158.725	
11,100.00	10,100.25	10,300.00	10,298.40	28.54	1.89	107.28	-4,825.66	-643.82	3,749.94	3,725.63	24.31	154.273	
11,200.00	10,100.88	10,300.00	10,298.40	29.61	1.89	107.28	-4,825.66	-643.82	3,651.34	3,626.96	24.38	149.789	
11,300.00	10,101.51	10,300.00	10,298.40	30.74	1.89	107.28	-4,825.66	-643.82	3,552.82	3,528.36	24.46	145.275	
11,400.00	10,102.15	10,290.57	10,289.00	31.91	1.89	106.43	-4,826.13	-644.26	3,454.36	3,429.85	24.51	140.916	
11,500.00	10,102.78	10,286.72	10,285.15	33.12	1.89	106.09	-4,826.32	-644.43	3,356.00	3,331.40	24.60	136.415	
11,600.00	10,103.41	10,282.82	10,281.26	34.37	1.89	105.73	-4,826.52	-644.60	3,257.74	3,233.04	24.70	131.883	
11,700.00	10,104.04	10,278.88	10,277.33	35.65	1.89	105.37	-4,826.72	-644.78	3,159.58	3,134.76	24.82	127.319	
11,800.00	10,104.67	10,274.89	10,273.35	36.96	1.89	105.01	-4,826.92	-644.95	3,061.53	3,036.58	24.95	122.722	
11,900.00	10,105.30	10,270.85	10,269.32	38.29	1.89	104.64	-4,827.12	-645.12	2,963.61	2,938.51	25.10	118.092	
12,000.00	10,105.93	10,266.77	10,265.24	39.65	1.89	104.26	-4,827.33	-645.29	2,865.82	2,840.56	25.27	113.429	
12,100.00	10,106.56	10,262.63	10,261.12	41.02	1.89	103.88	-4,827.55	-645.46	2,768.19	2,742.73	25.46	108.731	
12,200.00	10,107.19	10,258.45	10,256.94	42.42	1.89	103.50	-4,827.76	-645.63	2,670.72	2,645.04	25.68	104.000	
12,300.00	10,107.82	10,254.21	10,252.72	43.83	1.89	103.11	-4,827.98	-645.80	2,573.44	2,547.51	25.93	99.236	
12,400.00	10,108.46	10,249.92	10,248.44	45.26	1.89	102.71	-4,828.21	-645.96	2,476.37	2,450.15	26.22	94.441	
12,500.00	10,109.09	10,245.58	10,244.10	46.70	1.89	102.30	-4,828.44	-646.13	2,379.53	2,352.98	26.55	89.616	
12,600.00	10,109.72	10,241.18	10,239.72	48.15	1.89	101.89	-4,828.67	-646.29	2,282.96	2,256.03	26.93	84.765	
12,700.00	10,110.35	10,236.73	10,235.27	49.62	1.89	101.48	-4,828.90	-646.46	2,186.69	2,159.32	27.37	79.893	
12,800.00	10,110.98	10,232.23	10,230.78	51.09	1.89	101.06	-4,829.14	-646.62	2,090.75	2,062.88	27.87	75.007	
12,900.00	10,111.61	10,227.66	10,226.22	52.58	1.89	100.63	-4,829.39	-646.78	1,995.21	1,966.75	28.46	70.114	
13,000.00	10,112.24	10,223.04	10,221.61	54.07	1.89	100.19	-4,829.64	-646.94	1,900.11	1,870.98	29.13	65.227	
13,100.00	10,112.87	10,218.36	10,216.94	55.58	1.89	99.75	-4,829.89	-647.10	1,805.53	1,775.61	29.91	60.359	
13,200.00	10,113.50	10,213.62	10,212.20	57.09	1.89	99.30	-4,830.15	-647.26	1,711.55	1,680.73	30.82	55.527	
13,300.00	10,114.13	10,208.81	10,207.41	58.60	1.89	98.85	-4,830.42	-647.42	1,618.28	1,586.39	31.89	50.753	
13,400.00	10,114.77	10,203.94	10,202.55	60.13	1.89	98.39	-4,830.68	-647.57	1,525.85	1,492.72	33.13	46.061	
13,500.00	10,115.40	10,198.88	10,197.50	61.66	1.89	97.91	-4,830.97	-647.73	1,434.41	1,399.83	34.58	41.482	
13,600.00	10,116.03	10,193.26	10,191.89	63.19	1.89	97.37	-4,831.28	-647.90	1,344.18	1,307.90	36.28	37.051	
13,700.00	10,116.66	10,187.67	10,186.31	64.73	1.89	96.84	-4,831.59	-648.06	1,255.41	1,217.13	38.28	32.797	
13,800.00	10,117.29	10,182.10	10,180.76	66.28	1.89	96.31	-4,831.89	-648.22	1,168.42	1,127.79	40.63	28.757	
13,900.00	10,117.92	10,176.56	10,175.23	67.82	1.89	95.78	-4,832.20	-648.37	1,083.67	1,040.27	43.40	24.970	
14,000.00	10,118.55	10,171.05	10,169.72	69.38	1.89	95.25	-4,832.50	-648.51	1,001.69	955.05	46.65	21.474	
14,100.00	10,119.18	10,165.56	10,164.24	70.93	1.89	94.73	-4,832.80	-648.65	923.26	872.82	50.44	18.305	

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

LEAM Drilling Systems LLC

Anticollision Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well Thistle Unit 125H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3711.2' GE + 23.5' KB @ 3734.70usft
Reference Site:	Thistle Unit Sec 22-27 Trac Pad	MD Reference:	3711.2' GE + 23.5' KB @ 3734.70usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Thistle Unit 125H	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 #2	Offset TVD Reference:	Offset Datum

Offset Design Thistle Unit (Offsets) - 55H - OH - OH												Offset Site Error:	0.00 usft
Survey Program: 100- VES GyroFlex V2, 10790-MWD-ISCWSA												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)					
14,200.00	10,119.81	10,160.09	10,158.78	72.50	1.89	94.20	-4,833.10	-648.78	849.33	794.51	54.81	15.495	
14,300.00	10,120.44	10,154.65	10,153.35	74.06	1.89	93.68	-4,833.40	-648.91	781.19	721.42	59.77	13.070	
14,400.00	10,121.08	10,149.23	10,147.95	75.63	1.89	93.16	-4,833.70	-649.03	720.49	655.28	65.21	11.048	
14,500.00	10,121.71	10,143.84	10,142.56	77.20	1.89	92.64	-4,833.99	-649.14	669.26	598.38	70.88	9.443	
14,600.00	10,122.34	10,138.47	10,137.20	78.77	1.89	92.13	-4,834.28	-649.25	629.81	553.52	76.28	8.256	
14,700.00	10,122.97	10,133.13	10,131.87	80.35	1.89	91.61	-4,834.57	-649.36	604.44	523.68	80.77	7.484	
14,800.00	10,123.60	10,127.81	10,126.56	81.92	1.89	91.10	-4,834.86	-649.46	594.98	511.34	83.64	7.113	
14,806.92	10,123.64	10,127.44	10,126.19	82.03	1.89	91.06	-4,834.88	-649.47	594.94	511.17	83.77	7.102 CC, ES, SF	
14,900.00	10,124.23	10,122.51	10,121.27	83.50	1.89	90.59	-4,835.15	-649.55	602.15	517.66	84.49	7.127	
15,000.00	10,124.86	10,117.24	10,116.01	85.09	1.89	90.08	-4,835.43	-649.64	625.41	542.01	83.39	7.500	
15,100.00	10,125.49	10,111.99	10,110.76	86.67	1.89	89.58	-4,835.71	-649.72	663.05	582.23	80.81	8.205	
15,200.00	10,126.12	10,106.77	10,105.55	88.26	1.89	89.08	-4,835.99	-649.80	712.79	635.43	77.36	9.214	
15,300.00	10,126.75	10,101.56	10,100.35	89.85	1.89	88.58	-4,836.27	-649.88	772.31	698.73	73.58	10.496	
15,400.00	10,127.39	10,096.43	10,095.22	91.44	1.89	88.08	-4,836.55	-649.95	839.53	769.71	69.82	12.023	
15,500.00	10,128.02	10,091.34	10,090.15	93.03	1.89	87.59	-4,836.82	-650.01	912.75	846.45	66.30	13.768	
15,600.00	10,128.65	10,086.30	10,085.11	94.62	1.89	87.11	-4,837.09	-650.07	990.64	927.55	63.08	15.703	
15,700.00	10,129.28	10,081.29	10,080.11	96.22	1.89	86.63	-4,837.35	-650.12	1,072.18	1,011.97	60.21	17.806	
15,800.00	10,129.91	10,076.32	10,075.14	97.82	1.89	86.16	-4,837.61	-650.17	1,156.60	1,098.93	57.67	20.055	
15,900.00	10,130.54	10,071.38	10,070.21	99.41	1.89	85.68	-4,837.87	-650.21	1,243.32	1,187.89	55.43	22.430	
16,000.00	10,131.17	12,214.12	11,244.45	101.01	30.82	151.73	-5,979.41	-649.55	1,274.66	1,195.76	78.90	16.156	
16,100.00	10,131.80	12,315.09	11,246.80	102.61	33.33	151.64	-6,080.32	-652.11	1,277.70	1,196.37	81.34	15.709	
16,200.00	10,132.43	12,408.19	11,251.07	104.22	35.64	151.71	-6,173.32	-651.60	1,281.26	1,197.81	83.46	15.353	
16,300.00	10,133.06	12,529.72	11,257.14	105.82	38.66	151.88	-6,294.67	-649.19	1,284.60	1,198.82	85.78	14.975	
16,400.00	10,133.70	12,651.23	11,260.16	107.42	41.95	152.00	-6,416.11	-646.54	1,285.51	1,197.24	88.27	14.563	
16,500.00	10,134.33	12,756.00	11,261.90	109.03	44.82	152.09	-6,520.84	-643.98	1,285.61	1,195.03	90.59	14.192	
16,508.47	10,134.38	12,764.26	11,262.03	109.16	45.02	152.10	-6,529.09	-643.77	1,285.61	1,194.84	90.77	14.164	
16,600.00	10,134.96	12,839.94	11,263.76	110.63	46.84	152.18	-6,604.73	-641.87	1,286.19	1,193.64	92.55	13.898	
16,700.00	10,135.59	12,925.43	11,266.62	112.24	48.73	152.27	-6,690.16	-640.20	1,288.02	1,193.59	94.43	13.640	
16,800.00	10,136.22	13,008.89	11,269.92	113.85	50.61	152.32	-6,773.55	-639.66	1,291.01	1,194.66	96.35	13.399	
16,900.00	10,136.85	13,103.85	11,274.33	115.46	52.94	152.36	-6,868.40	-639.99	1,295.05	1,196.55	98.50	13.148	
17,000.00	10,137.48	13,209.96	11,278.84	117.07	55.84	152.38	-6,974.41	-640.65	1,298.89	1,197.95	100.94	12.868	
17,100.00	10,138.11	13,327.00	11,282.85	118.68	59.03	152.40	-7,091.38	-641.04	1,301.87	1,198.35	103.52	12.576	
17,200.00	10,138.74	13,402.55	11,285.90	120.29	60.82	152.44	-7,166.87	-640.76	1,305.06	1,199.65	105.41	12.381	
17,300.00	10,139.37	13,499.49	11,291.27	121.90	63.12	152.53	-7,263.66	-640.26	1,309.51	1,202.06	107.45	12.187	
17,400.00	10,140.01	13,598.83	11,296.77	123.52	65.53	152.63	-7,362.84	-639.49	1,313.85	1,204.34	109.52	11.997	
17,500.00	10,140.64	13,733.41	11,303.01	125.13	68.96	152.77	-7,497.27	-637.64	1,317.18	1,205.22	111.96	11.765	
17,557.62	10,141.00	13,823.85	11,304.89	126.06	71.46	152.85	-7,587.66	-635.61	1,317.55	1,204.01	113.53	11.605	

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 Thistle Unit 125H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3711.2' GE + 23.5' KB @ 3734.70usft
Reference Site:	Thistle Unit Sec 22-27 Trac Pad	MD Reference:	3711.2' GE + 23.5' KB @ 3734.70usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Thistle Unit 125H	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 #2	Offset TVD Reference:	Offset Datum

Offset Design Thistle Unit (Offsets) - 61H - OH - OH													Offset Site Error: 0.00 usft	
Survey Program: 57-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 +N/-S (usft)	Centre +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	-171.91	-4,753.25	-675.56	4,801.02					
100.00	100.00	57.16	57.16	0.09	0.05	-171.91	-4,753.50	-675.42	4,801.36	4,801.23	0.13	N/A		
200.00	200.00	151.73	151.72	0.31	0.25	-171.92	-4,754.36	-674.84	4,802.18	4,801.62	0.56	8,559.356		
300.00	300.00	276.79	276.78	0.54	0.51	-171.94	-4,755.20	-673.79	4,802.72	4,801.67	1.04	4,597.494		
400.00	400.00	389.37	389.35	0.76	0.74	-171.95	-4,755.53	-672.99	4,802.91	4,801.41	1.50	3,204.393		
497.83	497.83	489.35	489.33	0.98	0.95	-171.95	-4,755.58	-672.36	4,802.88	4,800.95	1.93	2,492.917		
500.00	500.00	491.36	491.34	0.99	0.95	-171.95	-4,755.58	-672.35	4,802.88	4,800.94	1.94	2,481.272		
600.00	600.00	594.59	594.57	1.21	1.16	-171.96	-4,755.68	-671.74	4,802.89	4,800.52	2.38	2,022.153		
700.00	700.00	698.63	698.61	1.43	1.38	-171.97	-4,755.62	-671.25	4,802.77	4,799.95	2.82	1,703.315		
800.00	800.00	795.64	795.62	1.66	1.59	-171.97	-4,755.55	-670.84	4,802.64	4,799.39	3.25	1,479.061		
900.00	900.00	891.73	891.71	1.88	1.79	-171.98	-4,755.57	-670.43	4,802.59	4,798.92	3.67	1,308.194		
1,000.00	1,000.00	997.49	997.46	2.11	2.01	-171.98	-4,755.56	-670.13	4,802.55	4,798.43	4.12	1,165.871		
1,100.00	1,100.00	1,104.71	1,104.69	2.33	2.24	-171.98	-4,755.38	-669.85	4,802.34	4,797.77	4.57	1,049.849		
1,200.00	1,200.00	1,206.98	1,206.96	2.56	2.46	-171.98	-4,755.10	-669.62	4,802.04	4,797.02	5.02	956.523		
1,300.00	1,300.00	1,309.13	1,309.10	2.78	2.68	-171.98	-4,754.76	-669.58	4,801.71	4,796.24	5.47	878.608		
1,400.00	1,400.00	1,413.68	1,413.65	3.01	2.90	-171.98	-4,754.30	-669.69	4,801.28	4,795.37	5.91	811.847		
1,500.00	1,500.00	1,520.79	1,520.77	3.23	3.13	-171.98	-4,753.77	-669.65	4,800.79	4,794.43	6.36	754.350		
1,600.00	1,600.00	1,632.99	1,632.95	3.46	3.37	-171.98	-4,752.88	-669.85	4,800.03	4,793.20	6.83	702.735		
1,700.00	1,700.00	1,736.76	1,736.72	3.68	3.59	-171.97	-4,751.86	-670.24	4,799.11	4,791.83	7.28	659.107		
1,800.00	1,800.00	1,842.24	1,842.19	3.91	3.82	-171.96	-4,750.72	-670.85	4,798.12	4,790.38	7.74	620.240		
1,900.00	1,900.00	1,938.75	1,938.69	4.13	4.03	-171.95	-4,749.62	-671.53	4,797.09	4,788.93	8.16	587.773		
2,000.00	2,000.00	2,032.82	2,032.76	4.36	4.21	-171.94	-4,748.66	-672.11	4,796.17	4,787.59	8.57	559.545		
2,100.00	2,100.00	2,126.30	2,126.24	4.58	4.40	-171.94	-4,747.83	-672.71	4,795.37	4,786.39	8.99	533.631		
2,200.00	2,200.00	2,227.71	2,227.64	4.81	4.61	-171.92	-4,746.96	-673.57	4,794.64	4,785.22	9.42	508.773		
2,300.00	2,300.00	2,321.73	2,321.65	5.03	4.81	-171.91	-4,746.20	-674.23	4,793.95	4,784.11	9.84	487.174		
2,400.00	2,400.00	2,419.25	2,419.17	5.26	5.00	-171.91	-4,745.54	-674.74	4,793.35	4,783.09	10.26	467.147		
2,500.00	2,500.00	2,509.99	2,509.91	5.48	5.19	-171.90	-4,745.03	-675.23	4,792.87	4,782.20	10.67	449.184		
2,600.00	2,600.00	2,615.88	2,615.79	5.71	5.41	-171.89	-4,744.48	-675.76	4,792.43	4,781.31	11.11	431.173		
2,700.00	2,700.00	2,715.53	2,715.44	5.93	5.62	-171.89	-4,743.89	-676.34	4,791.92	4,780.37	11.55	414.902		
2,800.00	2,800.00	2,815.29	2,815.19	6.15	5.83	-171.88	-4,743.29	-677.17	4,791.45	4,779.46	11.99	399.765		
2,900.00	2,900.00	2,923.75	2,923.65	6.38	6.06	-171.87	-4,742.51	-677.82	4,790.81	4,778.37	12.44	385.167		
3,000.00	3,000.00	3,021.02	3,020.91	6.60	6.26	-171.86	-4,741.80	-678.61	4,790.20	4,777.33	12.87	372.249		
3,100.00	3,100.00	3,131.56	3,131.44	6.83	6.50	-171.84	-4,740.86	-679.69	4,789.50	4,776.17	13.33	359.332		
3,200.00	3,200.00	3,234.21	3,234.08	7.05	6.72	-171.83	-4,739.80	-680.45	4,788.58	4,774.81	13.77	347.759		
3,300.00	3,300.00	3,331.80	3,331.66	7.28	6.92	-171.82	-4,738.84	-681.29	4,787.73	4,773.54	14.20	337.213		
3,400.00	3,400.00	3,434.66	3,434.52	7.50	7.13	-171.81	-4,737.86	-681.93	4,786.88	4,772.24	14.63	327.088		
3,500.00	3,500.00	3,537.09	3,536.94	7.73	7.34	-171.80	-4,736.85	-682.27	4,785.95	4,770.88	15.07	317.555		
3,600.00	3,600.00	3,639.95	3,639.80	7.95	7.56	-171.80	-4,735.79	-682.58	4,784.97	4,769.46	15.51	308.470		
3,700.00	3,700.00	3,744.27	3,744.11	8.18	7.78	-171.79	-4,734.63	-682.94	4,783.92	4,767.96	15.96	299.793		
3,800.00	3,800.00	3,842.78	3,842.62	8.40	7.99	-171.79	-4,733.53	-683.09	4,782.83	4,766.45	16.39	291.859		
3,900.00	3,900.00	3,945.50	3,945.33	8.63	8.20	-171.78	-4,732.35	-683.26	4,781.73	4,764.90	16.83	284.167		
4,000.00	4,000.00	4,041.31	4,041.13	8.85	8.40	-171.78	-4,731.28	-683.44	4,780.65	4,763.39	17.25	277.108		
4,080.45	4,080.45	4,119.26	4,119.07	9.03	8.56	-134.61	-4,730.47	-683.58	4,780.23	4,762.64	17.59	271.730		
4,100.00	4,100.00	4,137.61	4,137.43	9.07	8.60	-134.61	-4,730.28	-683.62	4,780.25	4,762.58	17.67	270.474		
4,200.00	4,199.96	4,234.11	4,233.92	9.29	8.81	-134.62	-4,729.34	-684.10	4,781.20	4,763.11	18.10	264.219		
4,300.00	4,299.86	4,337.46	4,337.26	9.51	9.02	-134.64	-4,728.22	-684.37	4,783.23	4,764.70	18.53	258.107		
4,400.00	4,399.68	4,411.03	4,410.83	9.74	9.17	-134.65	-4,727.76	-684.18	4,786.86	4,767.95	18.91	253.162		
4,509.06	4,508.39	4,524.46	4,524.26	9.98	9.41	-134.70	-4,727.32	-682.89	4,792.35	4,772.96	19.39	247.214		
4,600.00	4,598.97	4,596.52	4,596.30	10.18	9.56	-134.77	-4,727.31	-681.52	4,797.78	4,778.04	19.74	243.044		
4,700.00	4,698.58	4,684.71	4,684.46	10.41	9.74	-134.87	-4,727.63	-679.42	4,804.07	4,783.93	20.15	238.430		
4,800.00	4,798.18	4,791.90	4,791.60	10.64	9.96	-134.99	-4,728.13	-676.04	4,810.38	4,789.79	20.60	233.544		
4,900.00	4,897.79	4,879.56	4,879.18	10.87	10.15	-135.10	-4,728.71	-672.32	4,816.77	4,795.76	21.01	229.275		

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

LEAM Drilling Systems LLC

Anticollision Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well Thistle Unit 125H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3711.2' GE + 23.5' KB @ 3734.70usft
Reference Site:	Thistle Unit Sec 22-27 Trac Pad	MD Reference:	3711.2' GE + 23.5' KB @ 3734.70usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Thistle Unit 125H	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 #2	Offset TVD Reference:	Offset Datum

Offset Design Thistle Unit (Offsets) - 61H - OH - OH													Offset Site Error: 0.00 usft	
Survey Program: 57-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		
5,000.00	4,997.39	4,969.31	4,968.81	11.10	10.34	-135.22	-4,729.60	-667.77	4,823.39	4,801.96	21.43	225.125		
5,100.00	5,097.00	5,037.05	5,036.45	11.33	10.48	-135.31	-4,730.51	-664.21	4,830.39	4,808.59	21.80	221.586		
5,200.00	5,196.61	5,163.99	5,163.19	11.56	10.74	-135.49	-4,732.95	-657.54	4,838.08	4,815.79	22.29	217.052		
5,300.00	5,296.21	5,275.81	5,274.87	11.80	10.98	-135.64	-4,733.95	-652.05	4,844.69	4,821.94	22.75	212.925		
5,400.00	5,395.82	5,463.41	5,462.27	12.03	11.38	-135.87	-4,733.13	-643.40	4,849.75	4,826.37	23.38	207.400		
5,500.00	5,495.42	5,519.55	5,518.35	12.27	11.50	-135.94	-4,732.80	-640.92	4,855.03	4,831.30	23.74	204.551		
5,600.00	5,595.03	5,582.88	5,581.61	12.51	11.63	-136.02	-4,733.02	-638.05	4,861.21	4,837.11	24.10	201.703		
5,696.97	5,691.61	5,654.01	5,652.66	12.74	11.78	-136.12	-4,733.59	-634.66	4,867.68	4,843.20	24.48	198.847		
5,700.00	5,694.63	5,654.01	5,652.66	12.75	11.78	-136.12	-4,733.59	-634.66	4,867.90	4,843.41	24.49	198.800		
5,800.00	5,794.32	5,748.56	5,747.09	12.93	11.98	-136.28	-4,734.80	-630.18	4,874.38	4,849.52	24.86	196.034		
5,900.00	5,894.12	5,886.91	5,885.28	13.12	12.28	-136.46	-4,736.00	-623.72	4,879.20	4,853.87	25.34	192.574		
6,000.00	5,994.02	6,054.59	6,052.80	13.30	12.64	-136.62	-4,735.97	-616.35	4,882.07	4,856.20	25.87	188.685		
6,100.00	6,093.98	6,158.07	6,156.21	13.48	12.86	-136.69	-4,734.76	-612.61	4,882.50	4,856.23	26.27	185.840		
6,206.02	6,200.00	6,221.31	6,219.41	13.67	12.99	-173.89	-4,734.23	-610.51	4,882.03	4,855.43	26.59	183.583		
6,300.00	6,293.98	15,714.00	11,121.66	13.85	85.50	-101.28	-9.85	-742.17	4,881.55	4,840.80	40.76	119.776		
6,400.00	6,393.98	15,714.00	11,121.66	14.08	85.50	-101.28	-9.85	-742.17	4,782.50	4,741.52	40.98	116.690		
6,500.00	6,493.98	15,714.00	11,121.66	14.30	85.50	-101.28	-9.85	-742.17	4,683.49	4,642.27	41.22	113.616		
6,600.00	6,593.98	15,714.00	11,121.66	14.52	85.50	-101.28	-9.85	-742.17	4,584.52	4,543.06	41.47	110.555		
6,700.00	6,693.98	15,714.00	11,121.66	14.74	85.50	-101.28	-9.85	-742.17	4,485.60	4,443.88	41.72	107.508		
6,800.00	6,793.98	15,714.00	11,121.66	14.96	85.50	-101.28	-9.85	-742.17	4,386.73	4,344.74	41.99	104.477		
6,900.00	6,893.98	15,714.00	11,121.66	15.18	85.50	-101.28	-9.85	-742.17	4,287.91	4,245.65	42.26	101.460		
7,000.00	6,993.98	15,714.00	11,121.66	15.40	85.50	-101.28	-9.85	-742.17	4,189.14	4,146.60	42.55	98.460		
7,100.00	7,093.98	15,714.00	11,121.66	15.62	85.50	-101.28	-9.85	-742.17	4,090.44	4,047.60	42.84	95.476		
7,200.00	7,193.98	15,714.00	11,121.66	15.85	85.50	-101.28	-9.85	-742.17	3,991.80	3,948.65	43.15	92.510		
7,300.00	7,293.98	15,714.00	11,121.66	16.07	85.50	-101.28	-9.85	-742.17	3,893.23	3,849.76	43.47	89.562		
7,400.00	7,393.98	15,714.00	11,121.66	16.29	85.50	-101.28	-9.85	-742.17	3,794.73	3,750.93	43.80	86.632		
7,500.00	7,493.98	15,714.00	11,121.66	16.51	85.50	-101.28	-9.85	-742.17	3,696.31	3,652.16	44.15	83.721		
7,600.00	7,593.98	15,714.00	11,121.66	16.73	85.50	-101.28	-9.85	-742.17	3,597.98	3,553.47	44.51	80.830		
7,700.00	7,693.98	15,714.00	11,121.66	16.96	85.50	-101.28	-9.85	-742.17	3,499.75	3,454.86	44.89	77.958		
7,800.00	7,793.98	15,714.00	11,121.66	17.18	85.50	-101.28	-9.85	-742.17	3,401.62	3,356.33	45.29	75.107		
7,900.00	7,893.98	15,714.00	11,121.66	17.40	85.50	-101.28	-9.85	-742.17	3,303.60	3,257.89	45.71	72.277		
8,000.00	7,993.98	15,714.00	11,121.66	17.62	85.50	-101.28	-9.85	-742.17	3,205.70	3,159.56	46.15	69.469		
8,100.00	8,093.98	15,714.00	11,121.66	17.84	85.50	-101.28	-9.85	-742.17	3,107.94	3,061.33	46.61	66.682		
8,200.00	8,193.98	15,714.00	11,121.66	18.07	85.50	-101.28	-9.85	-742.17	3,010.33	2,963.23	47.10	63.918		
8,300.00	8,293.98	15,714.00	11,121.66	18.29	85.50	-101.28	-9.85	-742.17	2,912.87	2,865.26	47.61	61.178		
8,400.00	8,393.98	15,714.00	11,121.66	18.51	85.50	-101.28	-9.85	-742.17	2,815.60	2,767.44	48.16	58.461		
8,500.00	8,493.98	15,714.00	11,121.66	18.73	85.50	-101.28	-9.85	-742.17	2,718.52	2,669.78	48.75	55.769		
8,600.00	8,593.98	15,714.00	11,121.66	18.96	85.50	-101.28	-9.85	-742.17	2,621.66	2,572.29	49.37	53.102		
8,700.00	8,693.98	15,714.00	11,121.66	19.18	85.50	-101.28	-9.85	-742.17	2,525.05	2,475.01	50.04	50.462		
8,800.00	8,793.98	15,714.00	11,121.66	19.40	85.50	-101.28	-9.85	-742.17	2,428.71	2,377.96	50.76	47.850		
8,900.00	8,893.98	15,714.00	11,121.66	19.63	85.50	-101.28	-9.85	-742.17	2,332.68	2,281.15	51.53	45.266		
9,000.00	8,993.98	15,714.00	11,121.66	19.85	85.50	-101.28	-9.85	-742.17	2,237.00	2,184.63	52.37	42.713		
9,100.00	9,093.98	15,714.00	11,121.66	20.07	85.50	-101.28	-9.85	-742.17	2,141.71	2,088.43	53.29	40.193		
9,200.00	9,193.98	15,714.00	11,121.66	20.29	85.50	-101.28	-9.85	-742.17	2,046.88	1,992.59	54.28	37.707		
9,300.00	9,293.98	15,714.00	11,121.66	20.52	85.50	-101.28	-9.85	-742.17	1,952.55	1,897.17	55.38	35.259		
9,400.00	9,393.98	15,714.00	11,121.66	20.74	85.50	-101.28	-9.85	-742.17	1,858.82	1,802.24	56.58	32.851		
9,500.00	9,493.98	15,714.00	11,121.66	20.96	85.50	-101.28	-9.85	-742.17	1,765.78	1,707.86	57.92	30.487		
9,529.07	9,523.05	15,714.00	11,121.66	21.03	85.50	-101.28	-9.85	-742.17	1,738.88	1,680.54	58.33	29.809		
9,550.00	9,543.97	15,714.00	11,121.66	21.07	85.50	84.16	-9.85	-742.17	1,719.53	1,660.89	58.64	29.324		
9,600.00	9,593.79	15,714.00	11,121.66	21.15	85.50	96.12	-9.85	-742.17	1,673.39	1,614.00	59.39	28.177		
9,650.00	9,643.08	15,714.00	11,121.66	21.23	85.50	107.19	-9.85	-742.17	1,627.66	1,567.49	60.17	27.053		
9,700.00	9,691.45	15,714.00	11,121.66	21.30	85.50	116.67	-9.85	-742.17	1,582.74	1,521.78	60.96	25.962		

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 Thistle Unit 125H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3711.2' GE + 23.5' KB @ 3734.70usft
Reference Site:	Thistle Unit Sec 22-27 Trac Pad	MD Reference:	3711.2' GE + 23.5' KB @ 3734.70usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Thistle Unit 125H	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 #2	Offset TVD Reference:	Offset Datum

Offset Design Thistle Unit (Offsets) - 61H - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 57-MWD-ISCWSA													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)						
9,750.00	9,738.54	15,714.00	11,121.66	21.37	85.50	124.40	-9.85	-742.17	1,539.07	1,477.29	61.78	24.912		
9,800.00	9,783.99	15,714.00	11,121.66	21.44	85.50	130.54	-9.85	-742.17	1,497.09	1,434.49	62.60	23.914		
9,850.00	9,827.46	15,714.00	11,121.66	21.51	85.50	135.36	-9.85	-742.17	1,457.29	1,393.86	63.43	22.975		
9,900.00	9,868.60	15,714.00	11,121.66	21.57	85.50	139.13	-9.85	-742.17	1,420.16	1,355.92	64.24	22.106		
9,950.00	9,907.12	15,698.09	11,121.87	21.63	85.23	141.69	-25.75	-741.83	1,386.12	1,321.24	64.88	21.363		
10,000.00	9,942.72	15,662.55	11,122.33	21.69	84.64	143.32	-61.28	-741.08	1,354.98	1,289.67	65.30	20.749		
10,050.00	9,975.12	15,453.00	11,126.62	21.75	81.24	142.64	-265.76	-711.87	1,326.75	1,263.90	62.85	21.111		
10,100.00	10,004.08	15,409.83	11,127.83	21.84	80.56	144.97	-304.80	-693.74	1,293.92	1,231.56	62.36	20.750		
10,150.00	10,029.38	15,400.33	11,128.09	21.96	80.41	146.75	-313.91	-691.05	1,267.03	1,204.24	62.79	20.180		
10,200.00	10,050.82	15,359.00	11,129.18	22.11	79.75	147.94	-354.70	-685.12	1,246.14	1,183.46	62.67	19.883		
10,250.00	10,068.25	15,359.00	11,129.18	22.28	79.75	149.01	-354.70	-685.12	1,227.27	1,164.09	63.18	19.425		
10,300.00	10,081.53	15,359.00	11,129.18	22.47	79.75	149.73	-354.70	-685.12	1,213.75	1,150.16	63.59	19.086		
10,350.00	10,090.56	15,349.48	11,129.41	22.69	79.59	150.11	-364.22	-684.85	1,205.83	1,142.04	63.79	18.902		
10,400.00	10,095.27	15,304.49	11,130.58	22.93	78.85	150.24	-409.18	-683.72	1,202.43	1,138.92	63.51	18.933		
10,417.65	10,095.89	15,288.56	11,131.02	23.02	78.59	150.26	-425.10	-683.38	1,202.18	1,138.79	63.39	18.965		
10,425.46	10,096.00	15,281.52	11,131.21	23.06	78.47	150.26	-432.14	-683.24	1,202.23	1,138.90	63.33	18.983		
10,500.00	10,096.47	15,206.93	11,133.26	23.47	77.25	150.33	-506.69	-681.93	1,203.22	1,140.48	62.73	19.180		
10,600.00	10,097.10	15,111.86	11,135.74	24.11	75.71	150.41	-601.71	-680.44	1,204.54	1,142.49	62.05	19.412		
10,700.00	10,097.73	15,017.42	11,138.83	24.84	74.19	150.49	-696.09	-679.10	1,206.49	1,145.06	61.43	19.641		
10,800.00	10,098.36	14,919.78	11,142.26	25.66	72.59	150.58	-793.66	-677.80	1,208.71	1,147.89	60.82	19.875		
10,900.00	10,098.99	14,789.66	11,145.61	26.55	70.44	150.67	-923.27	-676.07	1,210.21	1,150.27	59.94	20.190		
11,000.00	10,099.62	14,673.10	11,146.14	27.51	68.52	150.71	-1,040.27	-674.19	1,209.67	1,150.39	59.28	20.404		
11,100.00	10,100.25	14,542.49	11,143.20	28.54	66.38	150.72	-1,170.80	-670.93	1,206.13	1,147.57	58.56	20.598		
11,200.00	10,100.88	14,445.45	11,140.48	29.61	64.83	150.73	-1,267.76	-668.18	1,202.10	1,143.89	58.21	20.651		
11,300.00	10,101.51	14,347.23	11,138.17	30.74	63.27	150.75	-1,365.90	-665.18	1,198.37	1,140.49	57.88	20.705		
11,400.00	10,102.15	14,265.34	11,137.16	31.91	61.97	150.83	-1,447.72	-661.94	1,195.21	1,137.53	57.69	20.719		
11,500.00	10,102.78	14,170.27	11,138.10	33.12	60.45	150.99	-1,542.69	-657.69	1,193.69	1,136.37	57.31	20.828		
11,600.00	10,103.41	14,076.44	11,138.81	34.37	58.95	151.15	-1,636.41	-653.12	1,191.81	1,134.85	56.97	20.921		
11,700.00	10,104.04	13,964.37	11,140.77	35.65	57.15	151.40	-1,748.30	-647.16	1,190.66	1,134.27	56.39	21.115		
11,800.00	10,104.67	13,849.00	11,140.34	36.96	55.32	151.61	-1,863.48	-640.66	1,187.39	1,131.55	55.84	21.265		
11,900.00	10,105.30	13,764.51	11,139.97	38.29	54.03	151.75	-1,947.85	-636.17	1,184.30	1,128.61	55.69	21.267		
12,000.00	10,105.93	13,670.59	11,140.70	39.65	52.57	151.93	-2,041.65	-631.43	1,182.40	1,126.97	55.43	21.332		
12,100.00	10,106.56	13,547.38	11,141.22	41.02	50.64	152.20	-2,164.64	-624.18	1,179.82	1,125.00	54.81	21.524		
12,200.00	10,107.19	13,438.98	11,139.67	42.42	49.00	152.41	-2,272.81	-617.28	1,175.34	1,120.91	54.43	21.595		
12,300.00	10,107.82	13,350.25	11,139.52	43.83	47.66	152.64	-2,361.32	-611.05	1,171.68	1,117.46	54.23	21.606		
12,400.00	10,108.46	13,232.01	11,139.56	45.26	45.89	153.03	-2,479.12	-600.87	1,167.56	1,113.94	53.62	21.776		
12,500.00	10,109.09	13,137.18	11,138.64	46.70	44.51	153.34	-2,573.55	-592.26	1,162.38	1,109.06	53.32	21.799		
12,600.00	10,109.72	13,059.31	11,139.48	48.15	43.39	153.65	-2,651.05	-584.75	1,158.80	1,105.61	53.19	21.785		
12,700.00	10,110.35	12,973.47	11,142.17	49.62	42.14	154.03	-2,736.46	-576.64	1,157.15	1,104.21	52.93	21.860		
12,800.00	10,110.98	12,867.43	11,144.93	51.09	40.61	154.49	-2,842.01	-566.72	1,155.16	1,102.71	52.44	22.028		
12,900.00	10,111.61	12,766.55	11,147.20	52.58	39.18	154.82	-2,942.58	-559.35	1,153.80	1,101.68	52.12	22.136		
13,000.00	10,112.24	12,663.68	11,147.82	54.07	37.77	155.10	-3,045.21	-552.38	1,151.20	1,099.33	51.86	22.196		
13,100.00	10,112.87	12,584.60	11,148.86	55.58	36.74	155.27	-3,124.18	-548.22	1,149.94	1,098.02	51.92	22.147		
13,115.10	10,112.97	12,572.99	11,149.13	55.80	36.60	155.30	-3,135.78	-547.68	1,149.92	1,097.98	51.94	22.140		
13,200.00	10,113.50	12,504.92	11,151.28	57.09	35.73	155.44	-3,203.75	-544.79	1,150.61	1,098.62	51.99	22.130		
13,300.00	10,114.13	12,403.48	11,155.81	58.60	34.44	155.70	-3,304.97	-540.06	1,152.49	1,100.67	51.82	22.242		
13,400.00	10,114.77	12,280.57	11,158.22	60.13	32.92	155.93	-3,427.74	-534.90	1,152.15	1,100.61	51.54	22.356		
13,464.90	10,115.18	12,222.87	11,158.43	61.12	32.25	155.94	-3,485.44	-534.21	1,151.87	1,100.21	51.66	22.295		
13,500.00	10,115.40	12,195.18	11,158.57	61.66	31.94	155.92	-3,513.13	-534.29	1,151.99	1,100.21	51.78	22.247		
13,600.00	10,116.03	12,118.27	11,159.47	63.19	31.08	155.84	-3,590.01	-535.76	1,153.58	1,101.40	52.18	22.109		
13,700.00	10,116.66	10,116.06	10,113.35	64.73	21.20	89.86	-4,745.89	-552.00	1,133.23	1,077.66	55.57	20.392		
13,800.00	10,117.29	10,117.41	10,114.71	66.28	21.21	90.01	-4,745.90	-551.97	1,044.27	986.34	57.93	18.027		

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 Thistle Unit 125H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3711.2' GE + 23.5' KB @ 3734.70usft
Reference Site:	Thistle Unit Sec 22-27 Trac Pad	MD Reference:	3711.2' GE + 23.5' KB @ 3734.70usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Thistle Unit 125H	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 #2	Offset TVD Reference:	Offset Datum

Offset Design Thistle Unit (Offsets) - 61H - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 57-MWD-HCWSA													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset		+N-S (usft)	+E-W (usft)						
13,900.00	10,117.92	10,118.77	10,116.06	67.82	21.21	90.17	-4,745.91	-551.93	957.49	896.71	60.78	15.753		
14,000.00	10,118.55	10,120.14	10,117.43	69.38	21.21	90.33	-4,745.92	-551.90	873.53	809.30	64.23	13.599		
14,100.00	10,119.18	10,121.51	10,118.80	70.93	21.22	90.49	-4,745.93	-551.86	793.31	724.91	68.39	11.599		
14,200.00	10,119.81	10,122.89	10,120.18	72.50	21.22	90.65	-4,745.94	-551.83	718.05	644.71	73.34	9.791		
14,300.00	10,120.44	10,124.28	10,121.56	74.06	21.22	90.81	-4,745.95	-551.79	649.51	570.42	79.09	8.212		
14,400.00	10,121.08	10,125.67	10,122.96	75.63	21.22	90.97	-4,745.96	-551.76	590.02	504.55	85.47	6.903		
14,500.00	10,121.71	10,127.07	10,124.36	77.20	21.23	91.13	-4,745.97	-551.72	542.57	450.59	91.98	5.899		
14,600.00	10,122.34	10,128.48	10,125.77	78.77	21.23	91.29	-4,745.98	-551.68	510.53	412.86	97.67	5.227		
14,700.00	10,122.97	10,129.89	10,127.18	80.35	21.23	91.45	-4,745.99	-551.65	496.88	395.52	101.36	4.902		
14,718.77	10,123.09	10,130.16	10,127.45	80.64	21.23	91.48	-4,746.00	-551.64	496.52	394.78	101.75	4.880 CC, ES, SF		
14,800.00	10,123.60	10,131.32	10,128.60	81.92	21.24	91.62	-4,746.01	-551.61	503.12	400.90	102.22	4.922		
14,900.00	10,124.23	10,132.75	10,130.03	83.50	21.24	91.78	-4,746.02	-551.57	528.56	428.20	100.36	5.267		
15,000.00	10,124.86	10,134.18	10,131.47	85.09	21.24	91.95	-4,746.03	-551.54	570.63	473.99	96.63	5.905		
15,100.00	10,125.49	10,135.63	10,132.91	86.67	21.25	92.12	-4,746.04	-551.50	625.98	533.89	92.08	6.798		
15,200.00	10,126.12	10,137.08	10,134.37	88.26	21.25	92.28	-4,746.05	-551.46	691.43	603.97	87.46	7.906		
15,300.00	10,126.75	10,138.54	10,135.83	89.85	21.25	92.45	-4,746.06	-551.42	764.40	681.24	83.16	9.192		
15,400.00	10,127.39	10,140.01	10,137.29	91.44	21.25	92.62	-4,746.07	-551.38	842.93	763.58	79.34	10.624		
15,500.00	10,128.02	10,141.49	10,138.77	93.03	21.26	92.79	-4,746.08	-551.34	925.60	849.57	76.03	12.175		
15,600.00	10,128.65	10,142.97	10,140.25	94.62	21.26	92.96	-4,746.09	-551.31	1,011.41	938.23	73.18	13.821		
15,700.00	10,129.28	10,144.46	10,141.74	96.22	21.26	93.13	-4,746.11	-551.27	1,099.62	1,028.88	70.74	15.544		
15,800.00	10,129.91	10,145.96	10,143.24	97.82	21.27	93.31	-4,746.12	-551.23	1,189.69	1,121.04	68.66	17.328		
15,900.00	10,130.54	10,147.47	10,144.75	99.41	21.27	93.48	-4,746.13	-551.19	1,281.24	1,214.37	66.86	19.162		
16,000.00	10,131.17	10,148.99	10,146.27	101.01	21.27	93.66	-4,746.14	-551.15	1,373.96	1,308.64	65.32	21.034		
16,100.00	10,131.80	10,150.51	10,147.79	102.61	21.28	93.83	-4,746.15	-551.11	1,467.63	1,403.65	63.99	22.937		
16,200.00	10,132.43	10,152.05	10,149.32	104.22	21.28	94.01	-4,746.17	-551.06	1,562.09	1,499.27	62.83	24.863		
16,300.00	10,133.06	10,153.59	10,150.86	105.82	21.28	94.19	-4,746.18	-551.02	1,657.20	1,595.38	61.82	26.807		
16,400.00	10,133.70	10,155.14	10,152.41	107.42	21.29	94.36	-4,746.19	-550.98	1,752.85	1,691.92	60.94	28.764		
16,500.00	10,134.33	10,156.69	10,153.97	109.03	21.29	94.54	-4,746.20	-550.94	1,848.96	1,788.80	60.16	30.732		
16,600.00	10,134.96	10,158.26	10,155.54	110.63	21.29	94.72	-4,746.22	-550.90	1,945.47	1,885.98	59.48	32.706		
16,700.00	10,135.59	10,159.84	10,157.11	112.24	21.30	94.90	-4,746.23	-550.86	2,042.30	1,983.42	58.88	34.684		
16,800.00	10,136.22	10,161.42	10,158.69	113.85	21.30	95.09	-4,746.24	-550.81	2,139.43	2,081.08	58.35	36.663		
16,900.00	10,136.85	10,163.01	10,160.29	115.46	21.30	95.27	-4,746.26	-550.77	2,236.81	2,178.93	57.88	38.643		
17,000.00	10,137.48	10,164.61	10,161.89	117.07	21.31	95.45	-4,746.27	-550.73	2,334.41	2,276.94	57.47	40.622		
17,100.00	10,138.11	10,166.22	10,163.50	118.68	21.31	95.64	-4,746.28	-550.68	2,432.20	2,375.11	57.10	42.598		
17,200.00	10,138.74	10,167.84	10,165.11	120.29	21.31	95.82	-4,746.30	-550.64	2,530.17	2,473.40	56.77	44.570		
17,300.00	10,139.37	10,169.47	10,166.74	121.90	21.32	96.01	-4,746.31	-550.60	2,628.29	2,571.81	56.48	46.538		
17,400.00	10,140.01	10,171.11	10,168.38	123.52	21.32	96.20	-4,746.32	-550.55	2,726.54	2,670.32	56.22	48.500		
17,500.00	10,140.64	10,172.75	10,170.02	125.13	21.32	96.39	-4,746.34	-550.51	2,824.91	2,768.93	55.99	50.456		
17,557.62	10,141.00	10,173.71	10,170.98	126.06	21.33	96.50	-4,746.35	-550.48	2,881.65	2,825.78	55.87	51.580		

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

LEAM Drilling Systems LLC

Anticollision Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well Thistle Unit 125H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3711.2' GE + 23.5' KB @ 3734.70usft
Reference Site:	Thistle Unit Sec 22-27 Trac Pad	MD Reference:	3711.2' GE + 23.5' KB @ 3734.70usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Thistle Unit 125H	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 #2	Offset TVD Reference:	Offset Datum

Offset Design Thistle Unit Sec 22-27 Trac Pad - Thistle Unit 110H - OH - Plan #2													Offset Site Error:	0.00 usft
Survey Program: O-LEAM MWD+HDGM													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)						
0.00	0.00	0.20	0.20	0.00	0.00	-90.38	-0.20	-29.99	29.99					
100.00	100.00	100.20	100.20	0.09	0.09	-90.38	-0.20	-29.99	29.99	29.82	0.17	173.964		
200.00	200.00	200.20	200.20	0.31	0.31	-90.38	-0.20	-29.99	29.99	29.37	0.62	48.222		
300.00	300.00	300.20	300.20	0.54	0.54	-90.38	-0.20	-29.99	29.99	28.92	1.07	27.990		
400.00	400.00	400.20	400.20	0.76	0.76	-90.38	-0.20	-29.99	29.99	28.47	1.52	19.718		
500.00	500.00	500.20	500.20	0.99	0.99	-90.38	-0.20	-29.99	29.99	28.02	1.97	15.220		
600.00	600.00	600.20	600.20	1.21	1.21	-90.38	-0.20	-29.99	29.99	27.57	2.42	12.393		
700.00	700.00	700.20	700.20	1.43	1.44	-90.38	-0.20	-29.99	29.99	27.12	2.87	10.451		
800.00	800.00	800.20	800.20	1.66	1.66	-90.38	-0.20	-29.99	29.99	26.67	3.32	9.036		
900.00	900.00	900.20	900.20	1.88	1.88	-90.38	-0.20	-29.99	29.99	26.22	3.77	7.958		
1,000.00	1,000.00	1,000.20	1,000.20	2.11	2.11	-90.38	-0.20	-29.99	29.99	25.77	4.22	7.110		
1,100.00	1,100.00	1,100.20	1,100.20	2.33	2.33	-90.38	-0.20	-29.99	29.99	25.32	4.67	6.425		
1,200.00	1,200.00	1,200.20	1,200.20	2.56	2.56	-90.38	-0.20	-29.99	29.99	24.87	5.12	5.861		
1,300.00	1,300.00	1,300.20	1,300.20	2.78	2.78	-90.38	-0.20	-29.99	29.99	24.42	5.57	5.387		
1,400.00	1,400.00	1,400.20	1,400.20	3.01	3.01	-90.38	-0.20	-29.99	29.99	23.97	6.02	4.985		
1,500.00	1,500.00	1,500.20	1,500.20	3.23	3.23	-90.38	-0.20	-29.99	29.99	23.52	6.47	4.638		
1,600.00	1,600.00	1,600.20	1,600.20	3.46	3.46	-90.38	-0.20	-29.99	29.99	23.08	6.92	4.337		
1,700.00	1,700.00	1,700.20	1,700.20	3.68	3.68	-90.38	-0.20	-29.99	29.99	22.63	7.36	4.072		
1,800.00	1,800.00	1,800.20	1,800.20	3.91	3.91	-90.38	-0.20	-29.99	29.99	22.18	7.81	3.838		
1,900.00	1,900.00	1,900.20	1,900.20	4.13	4.13	-90.38	-0.20	-29.99	29.99	21.73	8.26	3.629		
2,000.00	2,000.00	2,000.20	2,000.20	4.36	4.36	-90.38	-0.20	-29.99	29.99	21.28	8.71	3.442		
2,100.00	2,100.00	2,100.20	2,100.20	4.58	4.58	-90.38	-0.20	-29.99	29.99	20.83	9.16	3.273		
2,200.00	2,200.00	2,200.20	2,200.20	4.81	4.81	-90.38	-0.20	-29.99	29.99	20.38	9.61	3.120		
2,300.00	2,300.00	2,300.20	2,300.20	5.03	5.03	-90.38	-0.20	-29.99	29.99	19.93	10.06	2.981		
2,400.00	2,400.00	2,400.20	2,400.20	5.26	5.26	-90.38	-0.20	-29.99	29.99	19.48	10.51	2.853		
2,500.00	2,500.00	2,500.20	2,500.20	5.48	5.48	-90.38	-0.20	-29.99	29.99	19.03	10.96	2.736		
2,600.00	2,600.00	2,600.20	2,600.20	5.71	5.71	-90.38	-0.20	-29.99	29.99	18.58	11.41	2.628		
2,700.00	2,700.00	2,700.20	2,700.20	5.93	5.93	-90.38	-0.20	-29.99	29.99	18.13	11.86	2.529		
2,800.00	2,800.00	2,800.20	2,800.20	6.15	6.16	-90.38	-0.20	-29.99	29.99	17.68	12.31	2.436		
2,900.00	2,900.00	2,900.20	2,900.20	6.38	6.38	-90.38	-0.20	-29.99	29.99	17.23	12.76	2.350		
3,000.00	3,000.00	3,000.20	3,000.20	6.60	6.60	-90.38	-0.20	-29.99	29.99	16.78	13.21	2.271		
3,100.00	3,100.00	3,100.20	3,100.20	6.83	6.83	-90.38	-0.20	-29.99	29.99	16.33	13.66	2.196		
3,200.00	3,200.00	3,200.20	3,200.20	7.05	7.05	-90.38	-0.20	-29.99	29.99	15.88	14.11	2.126		
3,300.00	3,300.00	3,300.20	3,300.20	7.28	7.28	-90.38	-0.20	-29.99	29.99	15.43	14.56	2.060		
3,400.00	3,400.00	3,400.20	3,400.20	7.50	7.50	-90.38	-0.20	-29.99	29.99	14.98	15.01	1.998		
3,416.60	3,416.60	3,416.80	3,416.80	7.54	7.54	-90.38	-0.20	-29.99	29.99	14.91	15.08	1.989 CC		
3,500.00	3,500.00	3,500.00	3,500.00	7.73	7.73	-90.38	-0.20	-29.99	29.99	14.54	15.46	1.940 ES		
3,600.00	3,600.00	3,599.74	3,599.73	7.95	7.95	-89.56	0.23	-30.74	30.75	14.85	15.90	1.934 SF		
3,700.00	3,700.00	3,699.22	3,699.18	8.18	8.16	-87.34	1.53	-32.99	33.04	16.72	16.32	2.024		
3,800.00	3,800.00	3,798.58	3,798.44	8.40	8.37	-84.27	3.69	-36.73	36.95	20.20	16.75	2.206		
3,900.00	3,900.00	3,897.76	3,897.44	8.63	8.58	-80.93	6.70	-41.94	42.57	25.40	17.17	2.479		
4,000.00	4,000.00	3,997.20	3,996.60	8.85	8.80	-77.85	10.41	-48.39	49.63	32.03	17.59	2.821		
4,100.00	4,100.00	4,096.97	4,096.08	9.07	9.02	-38.84	14.21	-54.97	56.24	38.21	18.03	3.120		
4,200.00	4,199.96	4,196.83	4,195.65	9.29	9.24	-38.38	18.01	-61.55	61.53	43.07	18.46	3.333		
4,300.00	4,299.86	4,296.74	4,295.28	9.51	9.46	-38.94	21.81	-68.14	65.45	46.56	18.89	3.464		
4,400.00	4,399.68	4,396.70	4,394.94	9.74	9.69	-40.38	25.61	-74.73	68.04	48.72	19.33	3.521		
4,509.06	4,508.39	4,505.70	4,503.62	9.98	9.94	-42.92	29.76	-81.92	69.44	49.64	19.80	3.507		
4,600.00	4,598.97	4,596.59	4,594.25	10.18	10.14	-45.47	33.22	-87.91	70.11	49.90	20.20	3.470		
4,700.00	4,698.58	4,696.53	4,693.90	10.41	10.37	-48.21	37.02	-94.50	70.99	50.34	20.65	3.438		
4,800.00	4,798.18	4,796.46	4,793.55	10.64	10.60	-50.88	40.82	-101.09	72.03	50.94	21.09	3.415		
4,900.00	4,897.79	4,896.40	4,893.20	10.87	10.83	-53.47	44.62	-107.68	73.23	51.69	21.54	3.399		
5,000.00	4,997.39	4,996.34	4,992.84	11.10	11.06	-55.97	48.42	-114.27	74.57	52.57	22.00	3.390		

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 Thistle Unit 125H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3711.2' GE + 23.5' KB @ 3734.70usft
Reference Site:	Thistle Unit Sec 22-27 Trac Pad	MD Reference:	3711.2' GE + 23.5' KB @ 3734.70usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Thistle Unit 125H	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 #2	Offset TVD Reference:	Offset Datum

Offset Design Thistle Unit Sec 22-27 Trac Pad - Thistle Unit 110H - OH - Plan #2													Offset Site Error:	0.00 usft
Survey Program: O-LEAM MWD+HDGM													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)				Offset +N/-S (usft)	Offset +E/-W (usft)	
5,100.00	5,097.00	5,096.28	5,092.49	11.33	11.30	-58.38	52.23	-120.86	76.05	53.59	22.46	3.386		
5,200.00	5,196.61	5,196.22	5,192.14	11.56	11.53	-60.69	56.03	-127.45	77.65	54.73	22.92	3.388		
5,300.00	5,296.21	5,296.16	5,291.79	11.80	11.77	-62.90	59.83	-134.04	79.38	56.00	23.38	3.395		
5,400.00	5,395.82	5,396.10	5,391.44	12.03	12.00	-65.02	63.63	-140.63	81.22	57.37	23.85	3.405		
5,500.00	5,495.42	5,496.04	5,491.09	12.27	12.24	-67.04	67.43	-147.22	83.16	58.84	24.32	3.419		
5,600.00	5,595.03	5,595.98	5,590.74	12.51	12.48	-68.96	71.23	-153.81	85.21	60.41	24.80	3.436		
5,696.97	5,691.61	5,692.89	5,687.37	12.74	12.71	-70.74	74.92	-160.20	87.28	62.02	25.26	3.455		
5,700.00	5,694.63	5,695.92	5,690.39	12.75	12.71	-70.80	75.04	-160.40	87.35	62.07	25.27	3.456		
5,800.00	5,794.32	5,795.87	5,790.05	12.93	12.95	-72.00	78.84	-166.99	89.85	64.15	25.70	3.496		
5,900.00	5,894.12	5,895.82	5,889.71	13.12	13.19	-72.12	82.64	-173.58	92.91	66.80	26.12	3.558		
6,000.00	5,994.02	5,995.74	5,989.34	13.30	13.43	-71.25	86.44	-180.17	96.52	70.00	26.52	3.639		
6,100.00	6,093.98	6,095.60	6,088.92	13.48	13.67	-69.52	90.24	-186.76	100.75	73.83	26.92	3.742		
6,206.02	6,200.00	6,201.38	6,194.39	13.67	13.93	-104.06	94.27	-193.73	106.06	78.73	27.33	3.881		
6,300.00	6,293.98	6,295.09	6,287.82	13.85	14.15	-101.51	97.83	-199.91	111.32	83.61	27.71	4.017		
6,400.00	6,393.98	6,394.80	6,387.24	14.08	14.39	-99.04	101.62	-206.48	117.14	89.00	28.14	4.163		
6,500.00	6,493.98	6,494.51	6,486.66	14.30	14.64	-96.81	105.42	-213.06	123.16	94.58	28.57	4.310		
6,600.00	6,593.98	6,594.21	6,586.08	14.52	14.88	-94.79	109.21	-219.63	129.34	100.33	29.01	4.459		
6,700.00	6,693.98	6,694.73	6,686.31	14.74	15.11	-92.98	112.96	-226.14	135.55	106.11	29.44	4.604		
6,800.00	6,793.98	6,796.63	6,788.03	14.96	15.31	-91.62	116.03	-231.45	140.64	110.79	29.85	4.711		
6,900.00	6,893.98	6,898.71	6,890.02	15.18	15.49	-90.72	118.19	-235.20	144.27	114.01	30.26	4.767		
7,000.00	6,993.98	7,000.92	6,992.19	15.40	15.68	-90.22	119.45	-237.38	146.39	115.72	30.67	4.773		
7,100.00	7,093.98	7,102.91	7,094.18	15.62	15.86	-90.08	119.80	-237.99	146.99	115.92	31.07	4.730		
7,200.00	7,193.98	7,202.91	7,194.18	15.85	16.08	-90.08	119.80	-237.99	146.99	115.48	31.51	4.664		
7,300.00	7,293.98	7,302.91	7,294.18	16.07	16.29	-90.08	119.80	-237.99	146.99	115.03	31.96	4.600		
7,400.00	7,393.98	7,402.91	7,394.18	16.29	16.51	-90.08	119.80	-237.99	146.99	114.59	32.40	4.537		
7,500.00	7,493.98	7,502.91	7,494.18	16.51	16.73	-90.08	119.80	-237.99	146.99	114.15	32.84	4.476		
7,600.00	7,593.98	7,602.91	7,594.18	16.73	16.94	-90.08	119.80	-237.99	146.99	113.71	33.28	4.417		
7,700.00	7,693.98	7,702.91	7,694.18	16.96	17.16	-90.08	119.80	-237.99	146.99	113.27	33.72	4.359		
7,800.00	7,793.98	7,802.91	7,794.18	17.18	17.38	-90.08	119.80	-237.99	146.99	112.82	34.17	4.302		
7,900.00	7,893.98	7,902.91	7,894.18	17.40	17.60	-90.08	119.80	-237.99	146.99	112.38	34.61	4.247		
8,000.00	7,993.98	8,002.91	7,994.18	17.62	17.81	-90.08	119.80	-237.99	146.99	111.94	35.05	4.194		
8,100.00	8,093.98	8,102.91	8,094.18	17.84	18.03	-90.08	119.80	-237.99	146.99	111.50	35.49	4.141		
8,200.00	8,193.98	8,202.91	8,194.18	18.07	18.25	-90.08	119.80	-237.99	146.99	111.05	35.94	4.090		
8,300.00	8,293.98	8,302.91	8,294.18	18.29	18.47	-90.08	119.80	-237.99	146.99	110.61	36.38	4.040		
8,400.00	8,393.98	8,402.91	8,394.18	18.51	18.69	-90.08	119.80	-237.99	146.99	110.17	36.82	3.992		
8,500.00	8,493.98	8,502.91	8,494.18	18.73	18.90	-90.08	119.80	-237.99	146.99	109.72	37.27	3.944		
8,600.00	8,593.98	8,602.91	8,594.18	18.96	19.12	-90.08	119.80	-237.99	146.99	109.28	37.71	3.898		
8,700.00	8,693.98	8,702.91	8,694.18	19.18	19.34	-90.08	119.80	-237.99	146.99	108.83	38.16	3.852		
8,800.00	8,793.98	8,802.91	8,794.18	19.40	19.56	-90.08	119.80	-237.99	146.99	108.39	38.60	3.808		
8,900.00	8,893.98	8,902.91	8,894.18	19.63	19.78	-90.08	119.80	-237.99	146.99	107.95	39.04	3.765		
9,000.00	8,993.98	9,002.91	8,994.18	19.85	20.00	-90.08	119.80	-237.99	146.99	107.50	39.49	3.722		
9,100.00	9,093.98	9,102.91	9,094.18	20.07	20.22	-90.08	119.80	-237.99	146.99	107.06	39.93	3.681		
9,194.61	9,188.59	9,197.53	9,188.79	20.28	20.42	-90.42	118.92	-237.98	146.99	106.64	40.35	3.643		
9,200.00	9,193.98	9,202.91	9,194.15	20.29	20.43	-90.55	118.60	-237.98	146.99	106.62	40.37	3.641		
9,200.33	9,194.30	9,203.24	9,194.48	20.29	20.43	-90.56	118.58	-237.98	146.99	106.62	40.37	3.641		
9,300.00	9,293.98	9,300.00	9,290.05	20.52	20.58	-96.16	104.15	-237.88	147.79	107.01	40.77	3.625		
9,400.00	9,393.98	9,390.92	9,376.44	20.74	20.71	-106.65	76.13	-237.67	154.11	113.10	41.01	3.758		
9,500.00	9,493.98	9,470.89	9,447.94	20.96	20.82	-118.51	40.47	-237.41	172.91	132.41	40.50	4.270		
9,529.07	9,523.05	9,492.02	9,465.95	21.03	20.84	-121.76	29.40	-237.33	181.39	141.24	40.15	4.517		
9,550.00	9,543.97	9,506.82	9,478.30	21.07	20.86	-55.87	21.27	-237.27	188.16	148.31	39.85	4.721		
9,600.00	9,593.79	9,541.63	9,506.52	21.15	20.91	-49.94	0.89	-237.12	205.36	166.34	39.02	5.262		
9,650.00	9,643.08	9,575.77	9,532.94	21.23	20.95	-44.95	-20.73	-236.96	223.37	185.28	38.10	5.863		

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 Thistle Unit 125H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3711.2' GE + 23.5' KB @ 3734.70usft
Reference Site:	Thistle Unit Sec 22-27 Trac Pad	MD Reference:	3711.2' GE + 23.5' KB @ 3734.70usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Thistle Unit 125H	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 #2	Offset TVD Reference:	Offset Datum

Offset Design Thistle Unit Sec 22-27 Trac Pad - Thistle Unit 110H - OH - Plan #2													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 (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N-S (usft)	+E-W (usft)						
9,700.00	9,691.45	9,609.33	9,557.61	21.30	20.99	40.77	-43.48	-236.79	241.60	204.48	37.11	6.510		
9,750.00	9,738.54	9,642.40	9,580.57	21.37	21.03	37.29	-67.26	-236.62	259.60	223.51	36.10	7.192		
9,800.00	9,783.99	9,675.03	9,601.85	21.44	21.07	34.38	-92.00	-236.43	277.08	242.00	35.08	7.898		
9,850.00	9,827.46	9,700.00	9,617.16	21.51	21.11	32.24	-111.72	-236.29	293.92	260.23	33.68	8.726		
9,900.00	9,868.60	9,739.23	9,639.44	21.57	21.17	29.90	-144.00	-236.05	309.54	276.44	33.10	9.351		
9,950.00	9,907.12	9,770.89	9,655.78	21.63	21.24	28.20	-177.11	-235.85	324.21	292.04	32.17	10.077		
10,000.00	9,942.72	9,800.00	9,669.46	21.69	21.30	26.82	-196.80	-235.66	337.69	306.48	31.20	10.823		
10,050.00	9,975.12	9,833.53	9,683.58	21.75	21.40	25.58	-227.20	-235.44	349.84	319.33	30.51	11.466		
10,100.00	10,004.08	9,864.57	9,695.04	21.84	21.49	24.59	-256.04	-235.23	360.65	330.84	29.81	12.099		
10,150.00	10,029.38	9,900.00	9,706.19	21.96	21.62	23.73	-289.67	-234.98	370.08	340.73	29.35	12.608		
10,200.00	10,050.82	9,926.23	9,713.10	22.11	21.72	23.14	-314.98	-234.80	377.95	349.22	28.74	13.152		
10,250.00	10,068.25	9,950.00	9,718.35	22.28	21.82	22.68	-338.15	-234.63	384.46	356.20	28.26	13.605		
10,300.00	10,081.53	9,987.51	9,724.67	22.47	21.99	22.27	-375.12	-234.35	389.24	361.04	28.20	13.803		
10,350.00	10,090.56	10,018.06	9,728.02	22.69	22.14	22.02	-405.48	-234.13	392.56	364.40	28.16	13.942		
10,400.00	10,095.27	10,050.00	9,729.79	22.93	22.30	21.89	-437.36	-233.90	394.31	366.03	28.28	13.945		
10,425.46	10,096.00	10,064.84	9,730.01	23.06	22.38	21.87	-452.20	-233.79	394.59	366.20	28.39	13.899		
10,500.00	10,096.47	10,139.38	9,730.38	23.47	22.82	21.86	-526.74	-233.24	394.69	365.84	28.85	13.680		
10,600.00	10,097.10	10,239.38	9,730.87	24.11	23.49	21.86	-626.74	-232.51	394.82	365.27	29.55	13.362		
10,700.00	10,097.73	10,339.38	9,731.36	24.84	24.24	21.85	-726.73	-231.77	394.95	364.61	30.34	13.017		
10,800.00	10,098.36	10,439.38	9,731.85	25.66	25.09	21.84	-826.73	-231.04	395.08	363.86	31.22	12.655		
10,900.00	10,098.99	10,539.38	9,732.34	26.55	26.00	21.83	-926.73	-230.30	395.21	363.03	32.18	12.283		
11,000.00	10,099.62	10,639.38	9,732.83	27.51	26.99	21.83	-1,026.72	-229.57	395.34	362.13	33.21	11.906		
11,100.00	10,100.25	10,739.38	9,733.32	28.54	28.03	21.82	-1,126.72	-228.83	395.47	361.17	34.30	11.529		
11,200.00	10,100.88	10,839.38	9,733.81	29.61	29.14	21.81	-1,226.71	-228.10	395.60	360.14	35.46	11.157		
11,300.00	10,101.51	10,939.38	9,734.30	30.74	30.29	21.80	-1,326.71	-227.37	395.73	359.06	36.67	10.793		
11,400.00	10,102.15	11,039.38	9,734.79	31.91	31.48	21.80	-1,426.71	-226.63	395.86	357.93	37.92	10.438		
11,500.00	10,102.78	11,139.38	9,735.28	33.12	32.71	21.79	-1,526.70	-225.90	395.99	356.76	39.23	10.095		
11,600.00	10,103.41	11,239.38	9,735.77	34.37	33.98	21.78	-1,626.70	-225.16	396.12	355.55	40.57	9.764		
11,700.00	10,104.04	11,339.38	9,736.26	35.65	35.27	21.77	-1,726.69	-224.43	396.25	354.30	41.95	9.447		
11,800.00	10,104.67	11,439.38	9,736.76	36.96	36.60	21.77	-1,826.69	-223.69	396.38	353.02	43.36	9.142		
11,900.00	10,105.30	11,539.38	9,737.25	38.29	37.95	21.76	-1,926.69	-222.96	396.51	351.71	44.80	8.851		
12,000.00	10,105.93	11,639.38	9,737.74	39.65	39.32	21.75	-2,026.68	-222.22	396.64	350.38	46.26	8.574		
12,100.00	10,106.56	11,739.38	9,738.23	41.02	40.71	21.74	-2,126.68	-221.49	396.77	349.02	47.75	8.309		
12,200.00	10,107.19	11,839.38	9,738.72	42.42	42.12	21.74	-2,226.67	-220.76	396.90	347.63	49.26	8.057		
12,300.00	10,107.82	11,939.38	9,739.21	43.83	43.54	21.73	-2,326.67	-220.02	397.03	346.23	50.80	7.816		
12,400.00	10,108.46	12,039.38	9,739.70	45.26	44.98	21.72	-2,426.67	-219.29	397.16	344.81	52.35	7.587		
12,500.00	10,109.09	12,139.38	9,740.19	46.70	46.43	21.71	-2,526.66	-218.55	397.29	343.38	53.91	7.369		
12,600.00	10,109.72	12,239.38	9,740.68	48.15	47.90	21.71	-2,626.66	-217.82	397.42	341.93	55.49	7.162		
12,700.00	10,110.35	12,339.38	9,741.17	49.62	49.37	21.70	-2,726.65	-217.08	397.55	340.46	57.09	6.964		
12,800.00	10,110.98	12,439.38	9,741.66	51.09	50.86	21.69	-2,826.65	-216.35	397.68	338.99	58.69	6.775		
12,900.00	10,111.61	12,539.38	9,742.15	52.58	52.35	21.68	-2,926.65	-215.61	397.81	337.50	60.31	6.596		
13,000.00	10,112.24	12,639.38	9,742.64	54.07	53.86	21.68	-3,026.64	-214.88	397.94	336.00	61.94	6.424		
13,100.00	10,112.87	12,739.38	9,743.14	55.58	55.37	21.67	-3,126.64	-214.14	398.07	334.49	63.58	6.261		
13,200.00	10,113.50	12,839.38	9,743.63	57.09	56.88	21.66	-3,226.63	-213.41	398.20	332.97	65.23	6.105		
13,300.00	10,114.13	12,939.38	9,744.12	58.60	58.41	21.65	-3,326.63	-212.68	398.33	331.44	66.89	5.955		
13,400.00	10,114.77	13,039.38	9,744.61	60.13	59.94	21.65	-3,426.63	-211.94	398.46	329.91	68.55	5.813		
13,500.00	10,115.40	13,139.38	9,745.10	61.66	61.47	21.64	-3,526.62	-211.21	398.59	328.37	70.22	5.676		
13,600.00	10,116.03	13,239.38	9,745.59	63.19	63.02	21.63	-3,626.62	-210.47	398.72	326.82	71.90	5.546		
13,700.00	10,116.66	13,339.38	9,746.08	64.73	64.56	21.62	-3,726.61	-209.74	398.85	325.27	73.58	5.420		
13,800.00	10,117.29	13,439.38	9,746.57	66.28	66.11	21.62	-3,826.61	-209.00	398.98	323.71	75.27	5.300		
13,900.00	10,117.92	13,539.38	9,747.06	67.82	67.67	21.61	-3,926.61	-208.27	399.11	322.15	76.97	5.185		
14,000.00	10,118.55	13,639.38	9,747.55	69.38	69.23	21.60	-4,026.60	-207.53	399.24	320.58	78.67	5.075		

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 Thistle Unit 125H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3711.2' GE + 23.5' KB @ 3734.70usft
Reference Site:	Thistle Unit Sec 22-27 Trac Pad	MD Reference:	3711.2' GE + 23.5' KB @ 3734.70usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Thistle Unit 125H	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 #2	Offset TVD Reference:	Offset Datum

Offset Design Thistle Unit Sec 22-27 Trac Pad - Thistle Unit 110H - OH - Plan #2													Offset Site Error:	0.00 usft
Survey Program: O-LEAM MWD+HDGM													Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
14,100.00	10,119.18	13,739.38	9,748.04	70.93	70.79	21.59	-4,126.60	-206.80	399.37	319.00	80.37	4.969		
14,200.00	10,119.81	13,839.38	9,748.53	72.50	72.35	21.59	-4,226.59	-206.07	399.50	317.43	82.08	4.867		
14,300.00	10,120.44	13,939.38	9,749.02	74.06	73.92	21.58	-4,326.59	-205.33	399.63	315.84	83.79	4.769		
14,400.00	10,121.08	14,039.38	9,749.51	75.63	75.49	21.57	-4,426.59	-204.60	399.77	314.26	85.51	4.675		
14,500.00	10,121.71	14,139.38	9,750.01	77.20	77.07	21.56	-4,526.58	-203.86	399.90	312.67	87.23	4.585		
14,600.00	10,122.34	14,239.38	9,750.50	78.77	78.65	21.56	-4,626.58	-203.13	400.03	311.08	88.95	4.497		
14,700.00	10,122.97	14,339.38	9,750.99	80.35	80.23	21.55	-4,726.57	-202.39	400.16	309.48	90.67	4.413		
14,800.00	10,123.60	14,439.38	9,751.48	81.92	81.81	21.54	-4,826.57	-201.66	400.29	307.88	92.40	4.332		
14,900.00	10,124.23	14,539.38	9,751.97	83.50	83.39	21.53	-4,926.57	-200.92	400.42	306.28	94.13	4.254		
15,000.00	10,124.86	14,639.38	9,752.46	85.09	84.98	21.53	-5,026.56	-200.19	400.55	304.68	95.87	4.178		
15,100.00	10,125.49	14,739.38	9,752.95	86.67	86.57	21.52	-5,126.56	-199.46	400.68	303.08	97.60	4.105		
15,200.00	10,126.12	14,839.38	9,753.44	88.26	88.16	21.51	-5,226.55	-198.72	400.81	301.47	99.34	4.035		
15,300.00	10,126.75	14,939.38	9,753.93	89.85	89.75	21.50	-5,326.55	-197.99	400.94	299.86	101.08	3.967		
15,400.00	10,127.39	15,039.38	9,754.42	91.44	91.34	21.50	-5,426.55	-197.25	401.07	298.25	102.82	3.901		
15,500.00	10,128.02	15,139.38	9,754.91	93.03	92.94	21.49	-5,526.54	-196.52	401.20	296.64	104.56	3.837		
15,600.00	10,128.65	15,239.38	9,755.40	94.62	94.53	21.48	-5,626.54	-195.78	401.33	295.02	106.31	3.775		
15,700.00	10,129.28	15,339.38	9,755.89	96.22	96.13	21.48	-5,726.53	-195.05	401.46	293.40	108.06	3.715		
15,800.00	10,129.91	15,439.38	9,756.39	97.82	97.73	21.47	-5,826.53	-194.31	401.59	291.79	109.80	3.657		
15,900.00	10,130.54	15,539.38	9,756.88	99.41	99.33	21.46	-5,926.53	-193.58	401.72	290.17	111.55	3.601		
16,000.00	10,131.17	15,639.38	9,757.37	101.01	100.94	21.45	-6,026.52	-192.84	401.85	288.55	113.30	3.547		
16,100.00	10,131.80	15,739.38	9,757.86	102.61	102.54	21.45	-6,126.52	-192.11	401.98	286.93	115.06	3.494		
16,200.00	10,132.43	15,839.38	9,758.35	104.22	104.14	21.44	-6,226.51	-191.38	402.11	285.30	116.81	3.442		
16,300.00	10,133.06	15,939.38	9,758.84	105.82	105.75	21.43	-6,326.51	-190.64	402.24	283.68	118.56	3.393		
16,400.00	10,133.70	16,039.38	9,759.33	107.42	107.35	21.42	-6,426.51	-189.91	402.37	282.05	120.32	3.344		
16,500.00	10,134.33	16,139.38	9,759.82	109.03	108.96	21.42	-6,526.50	-189.17	402.50	280.43	122.08	3.297		
16,600.00	10,134.96	16,239.38	9,760.31	110.63	110.57	21.41	-6,626.50	-188.44	402.63	278.80	123.83	3.251		
16,700.00	10,135.59	16,339.38	9,760.80	112.24	112.18	21.40	-6,726.49	-187.70	402.77	277.17	125.59	3.207		
16,800.00	10,136.22	16,439.38	9,761.29	113.85	113.79	21.39	-6,826.49	-186.97	402.90	275.54	127.35	3.164		
16,900.00	10,136.85	16,539.38	9,761.78	115.46	115.40	21.39	-6,926.49	-186.23	403.03	273.92	129.11	3.122		
17,000.00	10,137.48	16,639.38	9,762.27	117.07	117.01	21.38	-7,026.48	-185.50	403.16	272.29	130.87	3.081		
17,100.00	10,138.11	16,739.38	9,762.76	118.68	118.62	21.37	-7,126.48	-184.77	403.29	270.65	132.63	3.041		
17,200.00	10,138.74	16,839.38	9,763.26	120.29	120.24	21.37	-7,226.47	-184.03	403.42	269.02	134.39	3.002		
17,300.00	10,139.37	16,939.38	9,763.75	121.90	121.85	21.36	-7,326.47	-183.30	403.55	267.39	136.16	2.964		
17,400.00	10,140.01	17,039.38	9,764.24	123.52	123.47	21.35	-7,426.47	-182.56	403.68	265.76	137.92	2.927		
17,500.00	10,140.64	17,139.38	9,764.73	125.13	125.08	21.34	-7,526.46	-181.83	403.81	264.13	139.68	2.891		
17,557.82	10,141.00	17,195.33	9,765.00	126.06	125.98	21.34	-7,582.42	-181.42	403.89	263.19	140.70	2.871		

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

LEAM Drilling Systems LLC

Anticollision Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well Thistle Unit 125H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3711.2' GE + 23.5' KB @ 3734.70usft
Reference Site:	Thistle Unit Sec 22-27 Trac Pad	MD Reference:	3711.2' GE + 23.5' KB @ 3734.70usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Thistle Unit 125H	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 #2	Offset TVD Reference:	Offset Datum

Offset Design Thistle Unit Sec 22-27 Trac Pad - Thistle Unit 114H - OH - Plan #2													Offset Site Error:	0.00 usft
Survey Program: O-LEAM MWD+HDGM													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)						
0.00	0.00	0.30	0.30	0.00	0.00	89.67	1.89	329.90	329.91					
100.00	100.00	100.30	100.30	0.09	0.09	89.67	1.89	329.90	329.91	329.73	0.17	1,911.160		
200.00	200.00	200.30	200.30	0.31	0.31	89.67	1.89	329.90	329.91	329.28	0.62	530.264		
300.00	300.00	300.30	300.30	0.54	0.54	89.67	1.89	329.90	329.91	328.83	1.07	307.838		
400.00	400.00	400.30	400.30	0.76	0.76	89.67	1.89	329.90	329.91	328.38	1.52	216.869		
500.00	500.00	500.30	500.30	0.99	0.99	89.67	1.89	329.90	329.91	327.93	1.97	167.401		
600.00	600.00	600.30	600.30	1.21	1.21	89.67	1.89	329.90	329.91	327.49	2.42	136.309		
700.00	700.00	700.30	700.30	1.43	1.44	89.67	1.89	329.90	329.91	327.04	2.87	114.957		
800.00	800.00	800.30	800.30	1.66	1.66	89.67	1.89	329.90	329.91	326.59	3.32	99.389		
900.00	900.00	900.30	900.30	1.88	1.88	89.67	1.89	329.90	329.91	326.14	3.77	87.534		
1,000.00	1,000.00	1,000.30	1,000.30	2.11	2.11	89.67	1.89	329.90	329.91	325.69	4.22	78.206		
1,100.00	1,100.00	1,100.30	1,100.30	2.33	2.33	89.67	1.89	329.90	329.91	325.24	4.67	70.675		
1,200.00	1,200.00	1,200.30	1,200.30	2.56	2.56	89.67	1.89	329.90	329.91	324.79	5.12	64.466		
1,300.00	1,300.00	1,300.30	1,300.30	2.78	2.78	89.67	1.89	329.90	329.91	324.34	5.57	59.261		
1,400.00	1,400.00	1,400.30	1,400.30	3.01	3.01	89.67	1.89	329.90	329.91	323.89	6.02	54.833		
1,500.00	1,500.00	1,500.30	1,500.30	3.23	3.23	89.67	1.89	329.90	329.91	323.44	6.47	51.021		
1,600.00	1,600.00	1,600.30	1,600.30	3.46	3.46	89.67	1.89	329.90	329.91	322.99	6.92	47.705		
1,700.00	1,700.00	1,700.30	1,700.30	3.68	3.68	89.67	1.89	329.90	329.91	322.54	7.37	44.793		
1,800.00	1,800.00	1,800.30	1,800.30	3.91	3.91	89.67	1.89	329.90	329.91	322.09	7.81	42.216		
1,900.00	1,900.00	1,900.30	1,900.30	4.13	4.13	89.67	1.89	329.90	329.91	321.64	8.26	39.920		
2,000.00	2,000.00	2,000.30	2,000.30	4.36	4.36	89.67	1.89	329.90	329.91	321.19	8.71	37.860		
2,100.00	2,100.00	2,100.30	2,100.30	4.58	4.58	89.67	1.89	329.90	329.91	320.74	9.16	36.003		
2,200.00	2,200.00	2,200.30	2,200.30	4.81	4.81	89.67	1.89	329.90	329.91	320.29	9.61	34.319		
2,300.00	2,300.00	2,300.30	2,300.30	5.03	5.03	89.67	1.89	329.90	329.91	319.84	10.06	32.786		
2,400.00	2,400.00	2,400.30	2,400.30	5.26	5.26	89.67	1.89	329.90	329.91	319.39	10.51	31.384		
2,500.00	2,500.00	2,500.30	2,500.30	5.48	5.48	89.67	1.89	329.90	329.91	318.94	10.96	30.097		
2,600.00	2,600.00	2,600.30	2,600.30	5.71	5.71	89.67	1.89	329.90	329.91	318.49	11.41	28.911		
2,700.00	2,700.00	2,700.30	2,700.30	5.93	5.93	89.67	1.89	329.90	329.91	318.04	11.86	27.816		
2,800.00	2,800.00	2,800.30	2,800.30	6.15	6.16	89.67	1.89	329.90	329.91	317.60	12.31	26.800		
2,900.00	2,900.00	2,900.30	2,900.30	6.38	6.38	89.67	1.89	329.90	329.91	317.15	12.76	25.856		
3,000.00	3,000.00	3,000.30	3,000.30	6.60	6.60	89.67	1.89	329.90	329.91	316.70	13.21	24.976		
3,100.00	3,100.00	3,100.30	3,100.30	6.83	6.83	89.67	1.89	329.90	329.91	316.25	13.66	24.154		
3,200.00	3,200.00	3,200.30	3,200.30	7.05	7.05	89.67	1.89	329.90	329.91	315.80	14.11	23.384		
3,300.00	3,300.00	3,300.30	3,300.30	7.28	7.28	89.67	1.89	329.90	329.91	315.35	14.56	22.662		
3,400.00	3,400.00	3,400.30	3,400.30	7.50	7.50	89.67	1.89	329.90	329.91	314.90	15.01	21.983		
3,500.00	3,500.00	3,500.30	3,500.30	7.73	7.73	89.67	1.89	329.90	329.91	314.45	15.46	21.344		
3,600.00	3,600.00	3,600.30	3,600.30	7.95	7.95	89.67	1.89	329.90	329.91	314.00	15.91	20.741		
3,700.00	3,700.00	3,700.30	3,700.30	8.18	8.18	89.67	1.89	329.90	329.91	313.55	16.36	20.171		
3,800.00	3,800.00	3,800.30	3,800.30	8.40	8.40	89.67	1.89	329.90	329.91	313.10	16.81	19.631		
3,900.00	3,900.00	3,900.30	3,900.30	8.63	8.63	89.67	1.89	329.90	329.91	312.65	17.25	19.120		
4,000.00	4,000.00	4,000.30	4,000.30	8.85	8.85	89.67	1.89	329.90	329.91	312.20	17.70	18.634 CC, ES		
4,100.00	4,100.00	4,100.30	4,100.30	9.07	9.08	126.96	1.89	329.90	330.43	312.28	18.15	18.205		
4,200.00	4,199.96	4,200.26	4,200.26	9.29	9.30	127.31	1.89	329.90	332.01	313.42	18.59	17.856		
4,300.00	4,299.86	4,300.16	4,300.16	9.51	9.53	127.88	1.89	329.90	334.67	315.64	19.04	17.581		
4,400.00	4,399.68	4,399.98	4,399.98	9.74	9.75	128.67	1.89	329.90	338.46	318.98	19.48	17.375		
4,509.06	4,508.39	4,508.69	4,508.69	9.98	10.00	129.75	1.89	329.90	343.93	323.97	19.96	17.229		
4,600.00	4,598.97	4,599.27	4,599.27	10.18	10.20	130.76	1.89	329.90	349.16	328.79	20.37	17.144		
4,700.00	4,698.58	4,698.88	4,698.88	10.41	10.42	131.85	1.89	329.90	355.03	334.22	20.81	17.059		
4,800.00	4,798.18	4,798.48	4,798.48	10.64	10.65	132.89	1.89	329.90	361.02	339.77	21.26	16.983		
4,900.00	4,897.79	4,898.09	4,898.09	10.87	10.87	133.91	1.89	329.90	367.13	345.43	21.70	16.915		
5,000.00	4,997.39	4,997.69	4,997.69	11.10	11.09	134.89	1.89	329.90	373.35	351.20	22.15	16.854		
5,100.00	5,097.00	5,097.30	5,097.30	11.33	11.32	135.83	1.89	329.90	379.68	357.08	22.60	16.800		

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 Thistle Unit 125H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3711.2' GE + 23.5' KB @ 3734.70usft
Reference Site:	Thistle Unit Sec 22-27 Trac Pad	MD Reference:	3711.2' GE + 23.5' KB @ 3734.70usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Thistle Unit 125H	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 #2	Offset TVD Reference:	Offset Datum

Offset Design Thistle Unit Sec 22-27 Trac Pad - Thistle Unit 114H - OH - Plan #2													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 (°)	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)						
5,200.00	5,196.61	5,196.91	5,196.91	11.56	11.54	136.75	1.89	329.90	386.10	363.06	23.05	16.751		
5,300.00	5,296.21	5,296.51	5,296.51	11.80	11.77	137.63	1.89	329.90	392.63	369.13	23.50	16.709		
5,400.00	5,395.82	5,396.12	5,396.12	12.03	11.99	138.49	1.89	329.90	399.24	375.29	23.95	16.671		
5,500.00	5,495.42	5,495.72	5,495.72	12.27	12.21	139.32	1.89	329.90	405.94	381.54	24.40	16.638		
5,600.00	5,595.03	5,599.07	5,599.07	12.51	12.41	140.05	1.89	330.59	413.44	388.62	24.82	16.659		
5,696.97	5,691.61	5,679.12	5,679.09	12.74	12.59	140.68	1.89	332.70	422.28	397.08	25.21	16.754		
5,700.00	5,694.63	5,681.93	5,681.90	12.75	12.60	140.70	1.89	332.79	422.58	397.36	25.22	16.758		
5,800.00	5,794.32	5,774.63	5,774.53	12.93	12.78	141.27	1.89	336.48	432.62	407.06	25.56	16.924		
5,900.00	5,894.12	5,868.17	5,867.92	13.12	12.97	141.64	1.89	341.71	442.88	416.97	25.91	17.094		
6,000.00	5,994.02	5,967.71	5,967.27	13.30	13.17	141.86	1.89	347.86	452.37	426.08	26.29	17.210		
6,100.00	6,093.98	6,067.38	6,066.75	13.48	13.37	141.92	1.89	354.03	460.48	433.82	26.66	17.270		
6,206.02	6,200.00	6,173.16	6,172.33	13.67	13.59	104.66	1.89	360.57	467.59	440.53	27.06	17.278		
6,300.00	6,293.98	6,266.96	6,265.94	13.85	13.79	104.48	1.89	366.37	473.22	445.78	27.44	17.246		
6,400.00	6,393.98	6,366.77	6,365.56	14.08	13.99	104.29	1.89	372.54	479.21	451.35	27.86	17.198		
6,500.00	6,493.98	6,466.57	6,465.18	14.30	14.20	104.11	1.89	378.71	485.20	456.92	28.29	17.152		
6,600.00	6,593.98	6,566.38	6,564.80	14.52	14.41	103.94	1.89	384.88	491.20	462.49	28.71	17.106		
6,700.00	6,693.98	6,666.19	6,664.41	14.74	14.62	103.77	1.89	391.05	497.21	468.07	29.14	17.062		
6,800.00	6,793.98	6,766.00	6,764.03	14.96	14.84	103.60	1.89	397.22	503.22	473.65	29.57	17.018		
6,900.00	6,893.98	6,865.81	6,863.65	15.18	15.05	103.44	1.89	403.39	509.23	479.23	30.00	16.976		
7,000.00	6,993.98	6,965.62	6,963.27	15.40	15.26	103.28	1.89	409.56	515.24	484.82	30.43	16.934		
7,100.00	7,093.98	7,065.43	7,062.88	15.62	15.48	103.12	1.89	415.74	521.26	490.41	30.86	16.893		
7,200.00	7,193.98	7,165.24	7,162.50	15.85	15.69	102.97	1.89	421.91	527.29	496.00	31.29	16.854		
7,300.00	7,293.98	7,265.04	7,262.12	16.07	15.91	102.82	1.89	428.08	533.32	501.60	31.72	16.815		
7,400.00	7,393.98	7,364.85	7,361.74	16.29	16.13	102.67	1.89	434.25	539.35	507.20	32.15	16.777		
7,500.00	7,493.98	7,464.66	7,461.35	16.51	16.35	102.53	1.89	440.42	545.38	512.80	32.58	16.739		
7,600.00	7,593.98	7,564.47	7,560.97	16.73	16.57	102.39	1.89	446.59	551.42	518.41	33.01	16.703		
7,700.00	7,693.98	7,664.28	7,660.59	16.96	16.79	102.25	1.89	452.76	557.46	524.01	33.45	16.667		
7,800.00	7,793.98	7,764.09	7,760.21	17.18	17.01	102.12	1.89	458.93	563.51	529.63	33.88	16.632		
7,900.00	7,893.98	7,863.90	7,859.83	17.40	17.23	101.99	1.89	465.11	569.55	535.24	34.31	16.598		
8,000.00	7,993.98	7,963.70	7,959.44	17.62	17.45	101.86	1.89	471.28	575.60	540.85	34.75	16.564		
8,100.00	8,093.98	8,063.51	8,059.06	17.84	17.67	101.74	1.89	477.45	581.66	546.47	35.18	16.532		
8,200.00	8,193.98	8,163.32	8,158.68	18.07	17.90	101.62	1.89	483.62	587.71	552.09	35.62	16.499		
8,300.00	8,293.98	8,263.13	8,258.30	18.29	18.12	101.49	1.89	489.79	593.77	557.71	36.06	16.468		
8,400.00	8,393.98	8,362.94	8,357.91	18.51	18.34	101.38	1.89	495.96	599.83	563.34	36.49	16.437		
8,500.00	8,493.98	8,462.75	8,457.53	18.73	18.57	101.26	1.89	502.13	605.89	568.96	36.93	16.407		
8,600.00	8,593.98	8,568.93	8,563.53	18.96	18.80	101.15	1.89	508.38	611.68	574.29	37.39	16.359		
8,700.00	8,693.98	8,668.58	8,675.08	19.18	19.02	101.06	1.89	513.01	615.75	577.89	37.85	16.266		
8,800.00	8,793.98	8,792.37	8,786.84	19.40	19.24	101.02	1.89	515.47	617.91	579.60	38.31	16.131		
8,900.00	8,893.98	8,899.81	8,894.28	19.63	19.44	101.01	1.89	515.90	618.29	579.55	38.74	15.961		
9,000.00	8,993.98	8,999.81	8,994.28	19.85	19.66	101.01	1.89	515.90	618.29	579.10	39.18	15.780		
9,100.00	9,093.98	9,099.81	9,094.28	20.07	19.88	101.01	1.89	515.90	618.29	578.66	39.63	15.603		
9,107.00	9,100.98	9,106.81	9,101.28	20.09	19.89	101.01	1.89	515.90	618.29	578.63	39.66	15.591		
9,200.00	9,193.98	9,193.22	9,187.67	20.29	20.08	101.09	1.07	515.91	618.48	578.44	40.05	15.444		
9,300.00	9,293.98	9,274.19	9,267.96	20.52	20.23	101.99	-8.95	515.98	621.08	580.69	40.39	15.378		
9,400.00	9,393.98	9,350.00	9,341.15	20.74	20.37	103.74	-28.49	516.12	627.27	586.61	40.66	15.428		
9,500.00	9,493.98	9,421.25	9,407.02	20.96	20.50	106.12	-55.51	516.32	638.17	597.34	40.82	15.633		
9,529.07	9,523.05	9,440.32	9,424.04	21.03	20.54	106.86	-64.12	516.38	642.40	601.56	40.84	15.730		
9,550.00	9,543.97	9,450.00	9,432.57	21.07	20.56	-72.02	-68.70	516.42	645.67	604.87	40.80	15.824		
9,600.00	9,593.79	9,485.66	9,463.28	21.15	20.63	-69.93	-86.81	516.55	653.58	612.79	40.79	16.024		
9,650.00	9,643.08	9,517.19	9,489.45	21.23	20.69	-68.10	-104.38	516.68	661.56	620.85	40.70	16.253		
9,700.00	9,691.45	9,550.00	9,515.62	21.30	20.76	-66.36	-124.17	516.82	669.44	628.84	40.60	16.489		
9,750.00	9,738.54	9,579.38	9,538.05	21.37	20.82	-64.85	-143.14	516.96	677.08	636.64	40.44	16.745		

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 Thistle Unit 125H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3711.2' GE + 23.5' KB @ 3734.70usft
Reference Site:	Thistle Unit Sec 22-27 Trac Pad	MD Reference:	3711.2' GE + 23.5' KB @ 3734.70usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Thistle Unit 125H	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 #2	Offset TVD Reference:	Offset Datum

Offset Design Thistle Unit Sec 22-27 Trac Pad - Thistle Unit 114H - OH - Plan #2													Offset Site Error:	0.00 usft
Survey Program: O-LEAM MWD+HDGM													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset		+N/S (usft)	+E/W (usft)						
9,800.00	9,783.99	9,610.12	9,560.45	21.44	20.89	-63.44	-164.19	517.12	684.35	644.08	40.27	16.995		
9,850.00	9,827.46	9,640.67	9,581.56	21.51	20.97	-62.17	-186.27	517.28	691.13	651.04	40.09	17.239		
9,900.00	9,868.60	9,671.06	9,601.36	21.57	21.05	-61.06	-209.31	517.45	697.34	657.42	39.91	17.471		
9,950.00	9,907.12	9,700.00	9,619.06	21.63	21.13	-60.11	-232.20	517.61	702.87	663.15	39.73	17.693		
10,000.00	9,942.72	9,731.44	9,636.95	21.69	21.23	-59.28	-258.05	517.80	707.66	668.06	39.60	17.869		
10,050.00	9,975.12	9,761.49	9,652.70	21.75	21.34	-58.62	-283.63	517.99	711.63	672.15	39.49	18.022		
10,100.00	10,004.08	9,800.00	9,670.89	21.84	21.48	-58.05	-317.58	518.24	714.84	675.32	39.52	18.088		
10,150.00	10,029.38	9,821.37	9,679.98	21.96	21.57	-57.75	-336.91	518.38	716.98	677.57	39.40	18.196		
10,200.00	10,050.82	9,850.00	9,691.02	22.11	21.69	-57.55	-363.32	518.58	718.28	678.84	39.43	18.215		
10,250.00	10,068.25	9,881.12	9,701.51	22.28	21.84	-57.49	-392.62	518.79	718.63	679.07	39.57	18.162		
10,300.00	10,081.53	9,911.00	9,710.07	22.47	21.99	-57.58	-421.23	519.00	718.05	678.28	39.77	18.057		
10,350.00	10,090.56	9,950.00	9,718.98	22.69	22.19	-57.87	-459.20	519.28	716.63	676.50	40.12	17.860		
10,400.00	10,095.27	9,970.81	9,722.67	22.93	22.31	-58.22	-479.68	519.43	714.09	673.68	40.41	17.670		
10,425.46	10,096.00	9,986.07	9,724.91	23.06	22.40	-58.48	-494.78	519.54	712.51	671.87	40.63	17.535		
10,500.00	10,096.47	10,031.13	9,729.15	23.47	22.67	-58.75	-539.62	519.87	709.08	667.76	41.32	17.160		
10,546.46	10,096.76	10,059.72	9,730.00	23.77	22.85	-58.80	-568.19	520.08	708.51	666.74	41.76	16.964		
10,600.00	10,097.10	10,112.78	9,730.27	24.11	23.21	-58.79	-621.25	520.46	708.54	666.16	42.38	16.718		
10,700.00	10,097.73	10,212.78	9,730.77	24.84	23.95	-58.78	-721.25	521.20	708.61	664.93	43.68	16.224		
10,800.00	10,098.36	10,312.78	9,731.26	25.66	24.77	-58.77	-821.25	521.93	708.68	663.56	45.12	15.706		
10,900.00	10,098.99	10,412.78	9,731.76	26.55	25.68	-58.76	-921.24	522.66	708.74	662.04	46.70	15.177		
11,000.00	10,099.62	10,512.78	9,732.26	27.51	26.65	-58.75	-1,021.24	523.39	708.81	660.41	48.40	14.644		
11,100.00	10,100.25	10,612.78	9,732.76	28.54	27.69	-58.75	-1,121.23	524.13	708.88	658.66	50.21	14.117		
11,200.00	10,100.88	10,712.78	9,733.26	29.61	28.78	-58.74	-1,221.23	524.86	708.94	656.82	52.12	13.601		
11,300.00	10,101.51	10,812.78	9,733.76	30.74	29.92	-58.73	-1,321.23	525.59	709.01	654.89	54.12	13.100		
11,400.00	10,102.15	10,912.78	9,734.26	31.91	31.11	-58.72	-1,421.22	526.32	709.08	652.88	56.20	12.617		
11,500.00	10,102.78	11,012.78	9,734.76	33.12	32.34	-58.71	-1,521.22	527.06	709.14	650.80	58.35	12.154		
11,600.00	10,103.41	11,112.78	9,735.26	34.37	33.60	-58.70	-1,621.21	527.79	709.21	648.65	60.56	11.712		
11,700.00	10,104.04	11,212.78	9,735.76	35.65	34.90	-58.69	-1,721.21	528.52	709.28	646.45	62.82	11.290		
11,800.00	10,104.67	11,312.78	9,736.26	36.96	36.22	-58.68	-1,821.21	529.25	709.34	644.21	65.14	10.890		
11,900.00	10,105.30	11,412.78	9,736.76	38.29	37.56	-58.67	-1,921.20	529.99	709.41	641.91	67.50	10.510		
12,000.00	10,105.93	11,512.78	9,737.26	39.65	38.93	-58.66	-2,021.20	530.72	709.48	639.58	69.90	10.150		
12,100.00	10,106.56	11,612.78	9,737.76	41.02	40.32	-58.65	-2,121.19	531.45	709.54	637.21	72.34	9.809		
12,200.00	10,107.19	11,712.78	9,738.25	42.42	41.73	-58.64	-2,221.19	532.18	709.61	634.81	74.80	9.486		
12,300.00	10,107.82	11,812.78	9,738.75	43.83	43.15	-58.64	-2,321.19	532.92	709.68	632.38	77.30	9.180		
12,400.00	10,108.46	11,912.78	9,739.25	45.26	44.59	-58.63	-2,421.18	533.65	709.75	629.92	79.83	8.891		
12,500.00	10,109.09	12,012.78	9,739.75	46.70	46.04	-58.62	-2,521.18	534.38	709.81	627.43	82.38	8.617		
12,600.00	10,109.72	12,112.78	9,740.25	48.15	47.51	-58.61	-2,621.17	535.11	709.88	624.93	84.95	8.357		
12,700.00	10,110.35	12,212.78	9,740.75	49.62	48.98	-58.60	-2,721.17	535.85	709.95	622.41	87.54	8.110		
12,800.00	10,110.98	12,312.78	9,741.25	51.09	50.47	-58.59	-2,821.17	536.58	710.01	619.86	90.15	7.876		
12,900.00	10,111.61	12,412.78	9,741.75	52.58	51.96	-58.58	-2,921.16	537.31	710.08	617.31	92.77	7.654		
13,000.00	10,112.24	12,512.78	9,742.25	54.07	53.47	-58.57	-3,021.16	538.04	710.15	614.73	95.42	7.443		
13,100.00	10,112.87	12,612.78	9,742.75	55.58	54.98	-58.56	-3,121.15	538.78	710.21	612.14	98.07	7.242		
13,200.00	10,113.50	12,712.78	9,743.25	57.09	56.50	-58.55	-3,221.15	539.51	710.28	609.54	100.74	7.051		
13,300.00	10,114.13	12,812.78	9,743.75	58.60	58.02	-58.54	-3,321.15	540.24	710.35	606.93	103.42	6.869		
13,400.00	10,114.77	12,912.78	9,744.25	60.13	59.55	-58.53	-3,421.14	540.97	710.42	604.31	106.11	6.695		
13,500.00	10,115.40	13,012.78	9,744.75	61.66	61.09	-58.53	-3,521.14	541.71	710.48	601.67	108.81	6.530		
13,600.00	10,116.03	13,112.78	9,745.24	63.19	62.63	-58.52	-3,621.13	542.44	710.55	599.03	111.52	6.372		
13,700.00	10,116.66	13,212.78	9,745.74	64.73	64.17	-58.51	-3,721.13	543.17	710.62	596.38	114.24	6.221		
13,800.00	10,117.29	13,312.78	9,746.24	66.28	65.73	-58.50	-3,821.13	543.90	710.69	593.72	116.96	6.076		
13,900.00	10,117.92	13,412.78	9,746.74	67.82	67.28	-58.49	-3,921.12	544.64	710.75	591.06	119.70	5.938		
14,000.00	10,118.55	13,512.78	9,747.24	69.38	68.84	-58.48	-4,021.12	545.37	710.82	588.38	122.44	5.806		
14,100.00	10,119.18	13,612.78	9,747.74	70.93	70.40	-58.47	-4,121.11	546.10	710.89	585.70	125.18	5.679		

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

LEAM Drilling Systems LLC

Anticollision Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well Thistle Unit 125H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3711.2' GE + 23.5' KB @ 3734.70usft
Reference Site:	Thistle Unit Sec 22-27 Trac Pad	MD Reference:	3711.2' GE + 23.5' KB @ 3734.70usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Thistle Unit 125H	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 #2	Offset TVD Reference:	Offset Datum

Offset Design Thistle Unit Sec 22-27 Trac Pad - Thistle Unit 114H - OH - Plan #2													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)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	10,119.81	13,712.78	9,748.24	72.50	71.97	-58.46	-4,221.11	546.83	710.95	583.02	127.94	5.557		
14,300.00	10,120.44	13,812.78	9,748.74	74.06	73.54	-58.45	-4,321.11	547.57	711.02	580.33	130.69	5.440		
14,400.00	10,121.08	13,912.78	9,749.24	75.63	75.11	-58.44	-4,421.10	548.30	711.09	577.63	133.46	5.328		
14,500.00	10,121.71	14,012.78	9,749.74	77.20	76.68	-58.43	-4,521.10	549.03	711.16	574.93	136.23	5.220		
14,600.00	10,122.34	14,112.78	9,750.24	78.77	78.26	-58.43	-4,621.09	549.76	711.22	572.23	139.00	5.117		
14,700.00	10,122.97	14,212.78	9,750.74	80.35	79.84	-58.42	-4,721.09	550.50	711.29	569.52	141.77	5.017		
14,800.00	10,123.60	14,312.78	9,751.24	81.92	81.42	-58.41	-4,821.09	551.23	711.36	566.80	144.56	4.921		
14,900.00	10,124.23	14,412.78	9,751.74	83.50	83.01	-58.40	-4,921.08	551.96	711.43	564.09	147.34	4.828		
15,000.00	10,124.86	14,512.78	9,752.23	85.09	84.59	-58.39	-5,021.08	552.69	711.49	561.37	150.13	4.739		
15,100.00	10,125.49	14,612.78	9,752.73	86.67	86.18	-58.38	-5,121.07	553.43	711.56	558.64	152.92	4.653		
15,200.00	10,126.12	14,712.78	9,753.23	88.26	87.77	-58.37	-5,221.07	554.16	711.63	555.92	155.71	4.570		
15,300.00	10,126.75	14,812.78	9,753.73	89.85	89.37	-58.36	-5,321.07	554.89	711.70	553.19	158.51	4.490		
15,400.00	10,127.39	14,912.78	9,754.23	91.44	90.96	-58.35	-5,421.06	555.62	711.76	550.46	161.31	4.412		
15,500.00	10,128.02	15,012.78	9,754.73	93.03	92.56	-58.34	-5,521.06	556.35	711.83	547.72	164.11	4.338		
15,600.00	10,128.65	15,112.78	9,755.23	94.62	94.15	-58.33	-5,621.05	557.09	711.90	544.98	166.92	4.265		
15,700.00	10,129.28	15,212.78	9,755.73	96.22	95.75	-58.33	-5,721.05	557.82	711.97	542.24	169.72	4.195		
15,800.00	10,129.91	15,312.78	9,756.23	97.82	97.35	-58.32	-5,821.05	558.55	712.03	539.50	172.53	4.127		
15,900.00	10,130.54	15,412.78	9,756.73	99.41	98.95	-58.31	-5,921.04	559.28	712.10	536.76	175.34	4.061		
16,000.00	10,131.17	15,512.78	9,757.23	101.01	100.55	-58.30	-6,021.04	560.02	712.17	534.02	178.15	3.997		
16,100.00	10,131.80	15,612.78	9,757.73	102.61	102.16	-58.29	-6,121.03	560.75	712.24	531.27	180.97	3.936		
16,200.00	10,132.43	15,712.78	9,758.23	104.22	103.76	-58.28	-6,221.03	561.48	712.30	528.52	183.79	3.876		
16,300.00	10,133.06	15,812.78	9,758.73	105.82	105.37	-58.27	-6,321.03	562.21	712.37	525.77	186.60	3.818		
16,400.00	10,133.70	15,912.78	9,759.22	107.42	106.97	-58.26	-6,421.02	562.95	712.44	523.02	189.42	3.761		
16,500.00	10,134.33	16,012.78	9,759.72	109.03	108.58	-58.25	-6,521.02	563.68	712.51	520.27	192.24	3.706		
16,600.00	10,134.96	16,112.78	9,760.22	110.63	110.19	-58.24	-6,621.01	564.41	712.58	517.51	195.06	3.653		
16,700.00	10,135.59	16,212.78	9,760.72	112.24	111.80	-58.23	-6,721.01	565.14	712.64	514.76	197.89	3.601		
16,800.00	10,136.22	16,312.78	9,761.22	113.85	113.41	-58.23	-6,821.01	565.88	712.71	512.00	200.71	3.551		
16,900.00	10,136.85	16,412.78	9,761.72	115.46	115.02	-58.22	-6,921.00	566.61	712.78	509.24	203.54	3.502		
17,000.00	10,137.48	16,512.78	9,762.22	117.07	116.63	-58.21	-7,021.00	567.34	712.85	506.48	206.36	3.454		
17,100.00	10,138.11	16,612.78	9,762.72	118.68	118.24	-58.20	-7,120.99	568.07	712.92	503.72	209.19	3.408		
17,200.00	10,138.74	16,712.78	9,763.22	120.29	119.86	-58.19	-7,220.99	568.81	712.98	500.96	212.02	3.363		
17,300.00	10,139.37	16,812.78	9,763.72	121.90	121.47	-58.18	-7,320.99	569.54	713.05	498.20	214.85	3.319		
17,400.00	10,140.01	16,912.78	9,764.22	123.52	123.09	-58.17	-7,420.98	570.27	713.12	495.44	217.68	3.276		
17,500.00	10,140.64	17,012.78	9,764.72	125.13	124.70	-58.16	-7,520.98	571.00	713.19	492.68	220.51	3.234		
17,557.62	10,141.00	17,069.55	9,765.00	126.06	125.62	-58.16	-7,577.75	571.42	713.23	491.09	222.13	3.211 SF		

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 Thistle Unit 125H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3711.2' GE + 23.5' KB @ 3734.70usft
Reference Site:	Thistle Unit Sec 22-27 Trac Pad	MD Reference:	3711.2' GE + 23.5' KB @ 3734.70usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Thistle Unit 125H	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 #2	Offset TVD Reference:	Offset Datum

Offset Design Thistle Unit Sec 22-27 Trac Pad - Thistle Unit 142H - OH - Plan #2													Offset Site Error:	0.00 usft
Survey Program: 0-LEAM MWD+HDGM, 9973-MWD+IFR1+MS													Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis		Distance		Warning								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (")	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-90.30	-0.31	-59.99	60.00					
100.00	100.00	98.80	98.80	0.09	0.08	-90.30	-0.31	-59.99	59.99	59.82	0.17	350.999		
200.00	200.00	198.80	198.80	0.31	0.31	-90.30	-0.31	-59.99	59.99	59.37	0.62	96.950		
300.00	300.00	298.80	298.80	0.54	0.53	-90.30	-0.31	-59.99	59.99	58.92	1.07	56.155		
400.00	400.00	398.80	398.80	0.76	0.76	-90.30	-0.31	-59.99	59.99	58.47	1.52	39.524		
500.00	500.00	498.80	498.80	0.99	0.98	-90.30	-0.31	-59.99	59.99	58.02	1.97	30.493		
600.00	600.00	598.80	598.80	1.21	1.21	-90.30	-0.31	-59.99	59.99	57.57	2.42	24.821		
700.00	700.00	698.80	698.80	1.43	1.43	-90.30	-0.31	-59.99	59.99	57.12	2.87	20.929		
800.00	800.00	798.80	798.80	1.66	1.66	-90.30	-0.31	-59.99	59.99	56.67	3.32	18.091		
900.00	900.00	898.80	898.80	1.88	1.88	-90.30	-0.31	-59.99	59.99	56.23	3.77	15.932		
1,000.00	1,000.00	998.80	998.80	2.11	2.11	-90.30	-0.31	-59.99	59.99	55.78	4.22	14.233		
1,100.00	1,100.00	1,098.80	1,098.80	2.33	2.33	-90.30	-0.31	-59.99	59.99	55.33	4.66	12.861		
1,200.00	1,200.00	1,198.80	1,198.80	2.56	2.56	-90.30	-0.31	-59.99	59.99	54.88	5.11	11.730		
1,300.00	1,300.00	1,298.80	1,298.80	2.78	2.78	-90.30	-0.31	-59.99	59.99	54.43	5.56	10.783		
1,400.00	1,400.00	1,398.80	1,398.80	3.01	3.01	-90.30	-0.31	-59.99	59.99	53.98	6.01	9.977		
1,500.00	1,500.00	1,498.80	1,498.80	3.23	3.23	-90.30	-0.31	-59.99	59.99	53.53	6.46	9.283		
1,600.00	1,600.00	1,598.80	1,598.80	3.46	3.45	-90.30	-0.31	-59.99	59.99	53.08	6.91	8.679		
1,700.00	1,700.00	1,698.80	1,698.80	3.68	3.68	-90.30	-0.31	-59.99	59.99	52.63	7.36	8.149		
1,800.00	1,800.00	1,798.80	1,798.80	3.91	3.90	-90.30	-0.31	-59.99	59.99	52.18	7.81	7.680		
1,900.00	1,900.00	1,898.80	1,898.80	4.13	4.13	-90.30	-0.31	-59.99	59.99	51.73	8.26	7.262		
2,000.00	2,000.00	1,998.80	1,998.80	4.36	4.35	-90.30	-0.31	-59.99	59.99	51.28	8.71	6.887		
2,100.00	2,100.00	2,098.80	2,098.80	4.58	4.58	-90.30	-0.31	-59.99	59.99	50.83	9.16	6.549		
2,200.00	2,200.00	2,198.80	2,198.80	4.81	4.80	-90.30	-0.31	-59.99	59.99	50.38	9.61	6.243		
2,300.00	2,300.00	2,298.80	2,298.80	5.03	5.03	-90.30	-0.31	-59.99	59.99	49.93	10.06	5.964		
2,400.00	2,400.00	2,398.80	2,398.80	5.26	5.25	-90.30	-0.31	-59.99	59.99	49.48	10.51	5.709		
2,500.00	2,500.00	2,498.80	2,498.80	5.48	5.48	-90.30	-0.31	-59.99	59.99	49.03	10.96	5.475 CC, ES		
2,600.00	2,600.00	2,597.77	2,597.76	5.71	5.69	-90.29	-0.31	-60.82	60.83	49.44	11.39	5.341		
2,700.00	2,700.00	2,696.66	2,696.62	5.93	5.88	-90.28	-0.31	-63.36	63.40	51.60	11.81	5.371		
2,800.00	2,800.00	2,795.44	2,795.31	6.15	6.08	-90.26	-0.31	-67.61	67.70	55.48	12.22	5.540		
2,900.00	2,900.00	2,894.05	2,893.73	6.38	6.29	-90.24	-0.31	-73.53	73.71	61.08	12.63	5.836		
3,000.00	3,000.00	2,993.48	2,992.90	6.60	6.49	-90.22	-0.31	-80.73	80.94	67.89	13.05	6.201		
3,100.00	3,100.00	3,093.21	3,092.37	6.83	6.71	-90.20	-0.31	-87.99	88.23	74.75	13.48	6.545		
3,200.00	3,200.00	3,192.94	3,191.84	7.05	6.92	-90.19	-0.31	-95.26	95.51	81.60	13.91	6.866		
3,300.00	3,300.00	3,292.68	3,291.31	7.28	7.14	-90.17	-0.31	-102.52	102.79	88.45	14.34	7.167		
3,400.00	3,400.00	3,392.41	3,390.78	7.50	7.36	-90.16	-0.31	-109.78	110.08	95.30	14.77	7.450		
3,500.00	3,500.00	3,492.15	3,490.25	7.73	7.58	-90.15	-0.31	-117.05	117.36	102.15	15.21	7.717		
3,600.00	3,600.00	3,591.88	3,589.72	7.95	7.81	-90.14	-0.31	-124.31	124.64	109.00	15.64	7.968		
3,700.00	3,700.00	3,691.62	3,689.19	8.18	8.03	-90.13	-0.31	-131.58	131.93	115.85	16.08	8.205		
3,800.00	3,800.00	3,791.35	3,788.66	8.40	8.26	-90.13	-0.31	-138.84	139.21	122.69	16.52	8.428		
3,900.00	3,900.00	3,891.09	3,888.13	8.63	8.49	-90.12	-0.31	-146.10	146.49	129.54	16.96	8.640		
4,000.00	4,000.00	3,990.82	3,987.60	8.85	8.72	-90.12	-0.31	-153.37	153.78	136.38	17.39	8.841		
4,100.00	4,100.00	4,090.59	4,087.10	9.07	8.95	-53.13	-0.31	-160.64	160.54	142.71	17.83	9.004		
4,200.00	4,199.96	4,190.40	4,186.65	9.29	9.18	-53.79	-0.31	-167.91	166.27	148.00	18.26	9.103		
4,300.00	4,299.86	4,290.23	4,286.22	9.51	9.42	-54.89	-0.31	-175.18	171.01	152.31	18.70	9.146		
4,400.00	4,399.68	4,390.05	4,385.77	9.74	9.65	-56.41	-0.31	-182.45	174.85	155.72	19.13	9.138		
4,509.06	4,508.39	4,498.85	4,494.28	9.98	9.91	-58.53	-0.31	-190.37	178.13	158.52	19.61	9.082		
4,600.00	4,598.97	4,589.55	4,584.74	10.18	10.12	-60.50	-0.31	-196.98	180.62	160.61	20.01	9.025		
4,700.00	4,698.58	4,689.28	4,684.21	10.41	10.36	-62.60	-0.31	-204.24	183.61	163.15	20.46	8.974		
4,800.00	4,798.18	4,789.01	4,783.67	10.64	10.60	-64.63	-0.31	-211.50	186.83	165.92	20.91	8.936		
4,900.00	4,897.79	4,888.75	4,883.14	10.87	10.84	-66.59	-0.31	-218.77	190.28	168.92	21.36	8.909		
5,000.00	4,997.39	4,988.48	4,982.61	11.10	11.08	-68.48	-0.31	-226.03	193.94	172.13	21.81	8.891		
5,100.00	5,097.00	5,088.21	5,082.07	11.33	11.32	-70.29	-0.31	-233.30	197.81	175.54	22.27	8.881		

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 Thistle Unit 125H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3711.2' GE + 23.5' KB @ 3734.70usft
Reference Site:	Thistle Unit Sec 22-27 Trac Pad	MD Reference:	3711.2' GE + 23.5' KB @ 3734.70usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Thistle Unit 125H	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 #2	Offset TVD Reference:	Offset Datum

Offset Design Thistle Unit Sec 22-27 Trac Pad - Thistle Unit 142H - OH - Plan #2													Offset Site Error:	0.00 usft
Survey Program: 0-LEAM MWD+HDGM, 9973-MWD+IFR1+MS													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)						
5,200.00	5,196.61	5,187.94	5,181.54	11.56	11.56	-72.04	-0.31	-240.56	201.87	179.13	22.73	8.880		
5,300.00	5,296.21	5,287.67	5,281.01	11.80	11.80	-73.72	-0.31	-247.82	206.11	182.91	23.20	8.885		
5,400.00	5,395.82	5,387.40	5,380.47	12.03	12.04	-75.32	-0.31	-255.09	210.52	186.85	23.66	8.896		
5,500.00	5,495.42	5,487.13	5,479.94	12.27	12.28	-76.86	-0.31	-262.35	215.08	190.95	24.13	8.912		
5,600.00	5,595.03	5,586.87	5,579.41	12.51	12.52	-78.34	-0.31	-269.62	219.80	195.20	24.61	8.933		
5,696.97	5,691.61	5,683.57	5,675.86	12.74	12.76	-79.71	-0.31	-276.66	224.51	199.44	25.07	8.957		
5,700.00	5,694.63	5,686.60	5,678.87	12.75	12.77	-79.75	-0.31	-276.88	224.66	199.58	25.08	8.958		
5,800.00	5,794.32	5,786.36	5,778.38	12.93	13.01	-80.93	-0.31	-284.15	229.79	204.29	25.50	9.010		
5,900.00	5,894.12	5,886.18	5,877.92	13.12	13.25	-81.64	-0.31	-291.42	235.26	209.33	25.92	9.076		
6,000.00	5,994.02	5,986.01	5,977.49	13.30	13.50	-81.91	-0.31	-298.69	240.99	214.66	26.33	9.151		
6,100.00	6,093.98	6,085.82	6,077.04	13.48	13.74	-81.77	-0.31	-305.96	246.97	220.23	26.74	9.236		
6,206.02	6,200.00	6,191.60	6,182.54	13.67	14.00	-118.38	-0.31	-313.66	253.61	226.44	27.16	9.336		
6,300.00	6,293.98	6,285.33	6,276.02	13.85	14.23	-117.67	-0.31	-320.49	259.65	232.10	27.56	9.422		
6,400.00	6,393.98	6,385.07	6,375.49	14.08	14.48	-116.94	-0.31	-327.75	266.13	238.13	28.00	9.505		
6,500.00	6,493.98	6,484.80	6,474.96	14.30	14.72	-116.25	-0.31	-335.02	272.65	244.21	28.44	9.587		
6,600.00	6,593.98	6,584.53	6,574.43	14.52	14.97	-115.58	-0.31	-342.28	279.20	250.32	28.88	9.667		
6,700.00	6,693.98	6,684.27	6,673.89	14.74	15.22	-114.95	-0.31	-349.54	285.79	256.47	29.32	9.746		
6,800.00	6,793.98	6,784.00	6,773.36	14.96	15.46	-114.35	-0.31	-356.81	292.41	262.65	29.77	9.824		
6,900.00	6,893.98	6,883.74	6,872.83	15.18	15.71	-113.78	-0.31	-364.07	299.07	268.86	30.21	9.900		
7,000.00	6,993.98	6,983.47	6,972.30	15.40	15.95	-113.23	-0.31	-371.34	305.75	275.10	30.65	9.975		
7,100.00	7,093.98	7,083.21	7,071.77	15.62	16.20	-112.70	-0.31	-378.60	312.46	281.36	31.10	10.048		
7,200.00	7,193.98	7,182.94	7,171.24	15.85	16.45	-112.20	-0.31	-385.87	319.19	287.65	31.54	10.120		
7,300.00	7,293.98	7,282.67	7,270.71	16.07	16.70	-111.71	-0.31	-393.13	325.95	293.97	31.98	10.191		
7,400.00	7,393.98	7,382.41	7,370.18	16.29	16.94	-111.25	-0.31	-400.39	332.73	300.30	32.43	10.260		
7,500.00	7,493.98	7,482.14	7,469.65	16.51	17.19	-110.80	-0.31	-407.66	339.53	306.66	32.87	10.328		
7,600.00	7,593.98	7,581.88	7,569.12	16.73	17.44	-110.38	-0.31	-414.92	346.35	313.03	33.32	10.395		
7,700.00	7,693.98	7,681.61	7,668.59	16.96	17.69	-109.96	-0.31	-422.19	353.19	319.43	33.76	10.461		
7,800.00	7,793.98	7,781.35	7,768.06	17.18	17.94	-109.57	-0.31	-429.45	360.05	325.84	34.21	10.525		
7,900.00	7,893.98	7,881.08	7,867.53	17.40	18.18	-109.19	-0.31	-436.71	366.92	332.26	34.66	10.588		
8,000.00	7,993.98	7,980.82	7,967.00	17.62	18.43	-108.82	-0.31	-443.98	373.81	338.71	35.10	10.649		
8,100.00	8,093.98	8,080.55	8,066.47	17.84	18.68	-108.47	-0.31	-451.24	380.71	345.16	35.55	10.710		
8,200.00	8,193.98	8,180.28	8,165.94	18.07	18.93	-108.13	-0.31	-458.51	387.63	351.63	35.99	10.769		
8,300.00	8,293.98	8,280.02	8,265.41	18.29	19.18	-107.80	-0.31	-465.77	394.56	358.12	36.44	10.827		
8,400.00	8,393.98	8,379.75	8,364.88	18.51	19.43	-107.48	-0.31	-473.03	401.50	364.61	36.89	10.884		
8,500.00	8,493.98	8,482.02	8,466.88	18.73	19.67	-107.17	-0.31	-480.36	408.35	371.01	37.34	10.935		
8,600.00	8,593.98	8,589.22	8,573.90	18.96	19.88	-106.92	-0.31	-486.47	413.80	376.02	37.78	10.952		
8,700.00	8,693.98	8,696.60	8,681.20	19.18	20.08	-106.76	-0.31	-490.59	417.47	379.26	38.21	10.926		
8,800.00	8,793.98	8,804.10	8,788.68	19.40	20.27	-106.67	-0.31	-492.69	419.34	380.72	38.63	10.857		
8,900.00	8,893.98	8,908.20	8,892.78	19.63	20.46	-106.66	-0.31	-492.99	419.61	380.56	39.04	10.747		
9,000.00	8,993.98	9,008.20	8,992.78	19.85	20.66	-106.66	-0.31	-492.99	419.61	380.13	39.47	10.630		
9,001.04	8,995.02	9,009.24	8,993.82	19.85	20.66	-106.66	-0.31	-492.99	419.61	380.13	39.48	10.629		
9,100.00	9,093.98	9,100.00	9,084.55	20.07	20.84	-106.82	-1.54	-492.98	420.03	380.14	39.89	10.529		
9,200.00	9,193.98	9,181.68	9,165.40	20.29	20.99	-108.27	-12.66	-492.90	424.11	383.87	40.24	10.540		
9,300.00	9,293.98	9,258.41	9,239.20	20.52	21.13	-110.91	-33.48	-492.75	433.39	392.92	40.47	10.708		
9,400.00	9,393.98	9,328.50	9,303.63	20.74	21.27	-114.26	-60.96	-492.54	449.37	408.87	40.50	11.095		
9,500.00	9,493.98	9,390.98	9,357.85	20.96	21.39	-117.84	-91.92	-492.32	473.47	433.23	40.23	11.768		
9,529.07	9,523.05	9,400.00	9,365.40	21.03	21.41	-118.39	-96.87	-492.28	482.22	442.27	39.95	12.070		
9,550.00	9,543.97	9,419.45	9,381.39	21.07	21.45	60.24	-107.95	-492.20	488.67	448.70	39.97	12.226		
9,600.00	9,593.79	9,450.00	9,405.71	21.15	21.52	57.13	-126.43	-492.06	504.37	464.70	39.67	12.715		
9,650.00	9,643.08	9,475.26	9,425.05	21.23	21.57	54.54	-142.67	-491.95	519.93	480.72	39.21	13.259		
9,700.00	9,691.45	9,500.00	9,443.29	21.30	21.63	52.19	-159.39	-491.82	535.12	496.43	38.70	13.829		
9,750.00	9,738.54	9,530.47	9,464.73	21.37	21.70	49.86	-181.03	-491.66	549.69	511.42	38.27	14.362		

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

LEAM Drilling Systems LLC

Anticollision Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well Thistle Unit 125H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3711.2' GE + 23.5' KB @ 3734.70usft
Reference Site:	Thistle Unit Sec 22-27 Trac Pad	MD Reference:	3711.2' GE + 23.5' KB @ 3734.70usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Thistle Unit 125H	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 #2	Offset TVD Reference:	Offset Datum

Offset Design Thistle Unit Sec 22-27 Trac Pad - Thistle Unit 142H - OH - Plan #2													Offset Site Error:	0.00 usft
Survey Program: 0-LEAM MWD+HDGM, 9973-MWD+FR1+MS													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)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)						
9,800.00	9,783.99	9,550.00	9,477.85	21.44	21.75	48.12	-195.49	-491.56	563.58	525.99	37.60	14.991		
9,850.00	9,827.46	9,585.24	9,500.26	21.51	21.85	46.16	-222.69	-491.36	576.34	539.08	37.26	15.468		
9,900.00	9,868.60	9,612.50	9,516.42	21.57	21.93	44.66	-244.63	-491.20	588.12	551.37	36.76	16.001		
9,950.00	9,907.12	9,650.00	9,536.90	21.63	22.04	43.17	-276.03	-490.97	598.87	562.38	36.49	16.413		
10,000.00	9,942.72	9,666.82	9,545.42	21.69	22.10	42.28	-290.54	-490.86	608.02	572.20	35.83	16.972		
10,050.00	9,975.12	9,700.00	9,560.95	21.75	22.22	41.30	-319.86	-490.65	616.03	580.49	35.54	17.334		
10,100.00	10,004.08	9,720.95	9,569.86	21.84	22.30	40.66	-338.81	-490.51	622.50	587.42	35.08	17.745		
10,150.00	10,029.38	9,750.00	9,581.08	21.96	22.42	40.10	-365.61	-490.31	627.56	592.72	34.84	18.012		
10,200.00	10,050.82	9,774.96	9,589.61	22.11	22.53	39.74	-389.06	-490.14	631.11	596.49	34.62	18.228		
10,250.00	10,068.25	9,800.00	9,597.14	22.28	22.64	39.54	-412.94	-489.96	633.13	598.63	34.51	18.349		
10,300.00	10,081.53	9,828.92	9,604.53	22.47	22.78	39.48	-440.89	-489.76	633.60	599.05	34.55	18.340		
10,350.00	10,090.56	9,850.00	9,609.02	22.69	22.89	39.58	-461.49	-489.61	632.57	597.96	34.62	18.273		
10,400.00	10,095.27	9,882.88	9,614.51	22.93	23.07	39.87	-493.90	-489.37	629.90	594.98	34.92	18.038		
10,425.46	10,096.00	9,900.00	9,616.62	23.06	23.17	40.09	-510.89	-489.24	628.00	592.89	35.11	17.885		
10,500.00	10,096.47	9,937.13	9,619.47	23.47	23.39	40.25	-547.90	-488.97	623.80	588.12	35.68	17.482		
10,539.81	10,096.72	9,958.87	9,620.02	23.73	23.53	40.27	-569.63	-488.81	623.23	587.20	36.03	17.297		
10,600.00	10,097.10	10,011.30	9,619.57	24.11	27.09	40.23	-622.06	-488.43	623.87	587.42	36.45	17.116		
10,700.00	10,097.73	10,111.28	9,618.57	24.84	27.16	40.13	-722.04	-487.69	625.12	588.15	36.96	16.911		
10,800.00	10,098.36	10,211.27	9,617.57	25.66	27.24	40.03	-822.01	-486.96	626.36	588.79	37.57	16.672		
10,900.00	10,098.99	10,311.26	9,616.57	26.55	27.32	39.94	-921.99	-486.23	627.61	589.35	38.26	16.404		
11,000.00	10,099.62	10,411.24	9,615.57	27.51	27.40	39.84	-1,021.97	-485.49	628.86	589.83	39.03	16.112		
11,100.00	10,100.25	10,511.23	9,614.57	28.54	27.49	39.75	-1,121.95	-484.76	630.12	590.24	39.87	15.802		
11,200.00	10,100.88	10,611.22	9,613.57	29.61	27.57	39.65	-1,221.93	-484.03	631.37	590.58	40.79	15.479		
11,300.00	10,101.51	10,711.20	9,612.58	30.74	27.66	39.56	-1,321.91	-483.29	632.63	590.86	41.77	15.146		
11,400.00	10,102.15	10,811.19	9,611.58	31.91	27.76	39.46	-1,421.89	-482.56	633.89	591.08	42.81	14.808		
11,500.00	10,102.78	10,911.18	9,610.58	33.12	27.85	39.37	-1,521.87	-481.82	635.14	591.24	43.90	14.467		
11,600.00	10,103.41	11,011.16	9,609.58	34.37	27.95	39.28	-1,621.85	-481.09	636.41	591.36	45.05	14.127		
11,700.00	10,104.04	11,111.15	9,608.58	35.65	28.05	39.19	-1,721.83	-480.36	637.67	591.43	46.24	13.790		
11,800.00	10,104.67	11,211.14	9,607.58	36.96	28.16	39.09	-1,821.80	-479.62	638.93	591.46	47.48	13.458		
11,900.00	10,105.30	11,311.12	9,606.58	38.29	28.27	39.00	-1,921.78	-478.89	640.20	591.45	48.76	13.131		
12,000.00	10,105.93	11,411.11	9,605.58	39.65	28.39	38.91	-2,021.76	-478.16	641.47	591.40	50.07	12.811		
12,100.00	10,106.56	11,511.10	9,604.58	41.02	28.51	38.82	-2,121.74	-477.42	642.74	591.32	51.42	12.500		
12,200.00	10,107.19	11,611.08	9,603.58	42.42	28.64	38.73	-2,221.72	-476.69	644.01	591.21	52.80	12.197		
12,300.00	10,107.82	11,711.07	9,602.59	43.83	28.78	38.64	-2,321.70	-475.96	645.28	591.07	54.21	11.903		
12,400.00	10,108.46	11,811.06	9,601.59	45.26	28.94	38.55	-2,421.68	-475.22	646.56	590.91	55.65	11.619		
12,500.00	10,109.09	11,911.04	9,600.59	46.70	29.10	38.46	-2,521.66	-474.49	647.83	590.72	57.11	11.344		
12,600.00	10,109.72	12,011.03	9,599.59	48.15	29.29	38.37	-2,621.64	-473.75	649.11	590.52	58.60	11.078		
12,700.00	10,110.35	12,111.02	9,598.59	49.62	29.50	38.28	-2,721.62	-473.02	650.39	590.29	60.10	10.822		
12,800.00	10,110.98	12,211.01	9,597.59	51.09	29.75	38.19	-2,821.60	-472.29	651.67	590.04	61.63	10.574		
12,900.00	10,111.61	12,310.99	9,596.59	52.58	30.03	38.10	-2,921.57	-471.55	652.95	589.78	63.17	10.336		
13,000.00	10,112.24	12,410.98	9,595.59	54.07	30.34	38.01	-3,021.55	-470.82	654.24	589.51	64.73	10.107		
13,100.00	10,112.87	12,510.97	9,594.59	55.58	30.70	37.93	-3,121.53	-470.09	655.52	589.22	66.31	9.886		
13,200.00	10,113.50	12,610.95	9,593.59	57.09	31.09	37.84	-3,221.51	-469.35	656.81	588.91	67.90	9.674		
13,300.00	10,114.13	12,710.94	9,592.59	58.60	31.51	37.75	-3,321.49	-468.62	658.10	588.60	69.50	9.469		
13,400.00	10,114.77	12,810.93	9,591.60	60.13	31.96	37.66	-3,421.47	-467.89	659.39	588.28	71.11	9.272		
13,500.00	10,115.40	12,910.91	9,590.60	61.66	32.43	37.58	-3,521.45	-467.15	660.68	587.94	72.74	9.083		
13,600.00	10,116.03	13,010.90	9,589.60	63.19	32.93	37.49	-3,621.43	-466.42	661.97	587.60	74.37	8.901		
13,700.00	10,116.66	13,110.89	9,588.60	64.73	33.44	37.41	-3,721.41	-465.68	663.27	587.25	76.02	8.725		
13,800.00	10,117.29	13,210.87	9,587.60	66.28	33.96	37.32	-3,821.39	-464.95	664.56	586.89	77.67	8.556		
13,900.00	10,117.92	13,310.86	9,586.60	67.82	34.50	37.24	-3,921.36	-464.22	665.86	586.53	79.33	8.393		
14,000.00	10,118.55	13,410.85	9,585.60	69.38	35.06	37.15	-4,021.34	-463.48	667.16	586.16	81.00	8.237		
14,100.00	10,119.18	13,510.83	9,584.60	70.93	35.62	37.07	-4,121.32	-462.75	668.46	585.78	82.68	8.085		

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 Thistle Unit 125H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3711.2' GE + 23.5' KB @ 3734.70usft
Reference Site:	Thistle Unit Sec 22-27 Trac Pad	MD Reference:	3711.2' GE + 23.5' KB @ 3734.70usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Thistle Unit 125H	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 #2	Offset TVD Reference:	Offset Datum

Offset Design Thistle Unit Sec 22-27 Trac Pad - Thistle Unit 142H - OH - Plan #2													Offset Site Error:	0.00 usft
Survey Program: 0-LEAM MWD+HDGM, 9973-MWD+IFR1+MS													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)						
14,200.00	10,119.81	13,610.82	9,583.60	72.50	36.19	36.98	-4,221.30	-462.02	669.76	585.40	84.36	7.940		
14,300.00	10,120.44	13,710.81	9,582.60	74.06	36.77	36.90	-4,321.28	-461.28	671.06	585.02	86.04	7.799		
14,400.00	10,121.08	13,810.79	9,581.60	75.63	37.36	36.82	-4,421.26	-460.55	672.37	584.63	87.74	7.664		
14,500.00	10,121.71	13,910.78	9,580.61	77.20	37.95	36.73	-4,521.24	-459.82	673.68	584.24	89.43	7.533		
14,600.00	10,122.34	14,010.77	9,579.61	78.77	38.56	36.65	-4,621.22	-459.08	674.98	583.85	91.13	7.407		
14,700.00	10,122.97	14,110.75	9,578.61	80.35	39.17	36.57	-4,721.20	-458.35	676.29	583.45	92.84	7.285		
14,800.00	10,123.60	14,210.74	9,577.61	81.92	39.78	36.49	-4,821.18	-457.61	677.60	583.05	94.55	7.167		
14,900.00	10,124.23	14,310.73	9,576.61	83.50	40.40	36.40	-4,921.15	-456.88	678.91	582.65	96.26	7.053		
15,000.00	10,124.86	14,410.71	9,575.61	85.09	41.03	36.32	-5,021.13	-456.15	680.23	582.25	97.98	6.943		
15,100.00	10,125.49	14,510.70	9,574.61	86.67	41.66	36.24	-5,121.11	-455.41	681.54	581.85	99.69	6.836		
15,200.00	10,126.12	14,610.69	9,573.61	88.26	42.30	36.16	-5,221.09	-454.68	682.86	581.44	101.41	6.733		
15,300.00	10,126.75	14,710.67	9,572.61	89.85	42.94	36.08	-5,321.07	-453.95	684.17	581.04	103.14	6.634		
15,400.00	10,127.39	14,810.66	9,571.61	91.44	43.58	36.00	-5,421.05	-453.21	685.49	580.63	104.86	6.537		
15,500.00	10,128.02	14,910.65	9,570.62	93.03	44.23	35.92	-5,521.03	-452.48	686.81	580.22	106.59	6.443		
15,600.00	10,128.65	15,010.63	9,569.62	94.62	44.89	35.84	-5,621.01	-451.75	688.13	579.81	108.32	6.353		
15,700.00	10,129.28	15,110.62	9,568.62	96.22	45.54	35.76	-5,720.99	-451.01	689.46	579.41	110.05	6.265		
15,800.00	10,129.91	15,210.61	9,567.62	97.82	46.20	35.68	-5,820.97	-450.28	690.78	579.00	111.78	6.180		
15,900.00	10,130.54	15,310.59	9,566.62	99.41	46.87	35.60	-5,920.95	-449.54	692.11	578.59	113.51	6.097		
16,000.00	10,131.17	15,410.58	9,565.62	101.01	47.53	35.53	-6,020.92	-448.81	693.43	578.18	115.25	6.017		
16,100.00	10,131.80	15,510.57	9,564.62	102.61	48.20	35.45	-6,120.90	-448.08	694.76	577.78	116.98	5.939		
16,200.00	10,132.43	15,610.55	9,563.62	104.22	48.88	35.37	-6,220.88	-447.34	696.09	577.37	118.72	5.863		
16,300.00	10,133.06	15,710.54	9,562.62	105.82	49.55	35.29	-6,320.86	-446.61	697.42	576.96	120.45	5.790		
16,400.00	10,133.70	15,810.53	9,561.62	107.42	50.23	35.21	-6,420.84	-445.88	698.75	576.56	122.19	5.719		
16,500.00	10,134.33	15,910.51	9,560.62	109.03	50.91	35.14	-6,520.82	-445.14	700.08	576.15	123.93	5.649		
16,600.00	10,134.96	16,010.50	9,559.63	110.63	51.59	35.06	-6,620.80	-444.41	701.42	575.75	125.67	5.582		
16,700.00	10,135.59	16,110.49	9,558.63	112.24	52.28	34.99	-6,720.78	-443.67	702.75	575.35	127.40	5.516		
16,800.00	10,136.22	16,210.47	9,557.63	113.85	52.97	34.91	-6,820.76	-442.94	704.09	574.95	129.14	5.452		
16,900.00	10,136.85	16,310.46	9,556.63	115.46	53.66	34.83	-6,920.74	-442.21	705.43	574.55	130.88	5.390		
17,000.00	10,137.48	16,410.45	9,555.63	117.07	54.35	34.76	-7,020.71	-441.47	706.77	574.15	132.62	5.329		
17,100.00	10,138.11	16,510.43	9,554.63	118.68	55.04	34.68	-7,120.69	-440.74	708.11	573.75	134.36	5.270		
17,200.00	10,138.74	16,610.42	9,553.63	120.29	55.74	34.61	-7,220.67	-440.01	709.45	573.35	136.09	5.213		
17,300.00	10,139.37	16,710.41	9,552.63	121.90	56.44	34.53	-7,320.65	-439.27	710.79	572.96	137.83	5.157		
17,400.00	10,140.01	16,810.39	9,551.63	123.52	57.13	34.46	-7,420.63	-438.54	712.13	572.56	139.57	5.102		
17,500.00	10,140.64	16,910.38	9,550.63	125.13	57.84	34.38	-7,520.61	-437.81	713.48	572.17	141.31	5.049		
17,557.62	10,141.00	16,967.99	9,550.06	126.06	58.24	34.34	-7,578.21	-437.38	714.25	571.95	142.31	5.019 SF		

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

LEAM Drilling Systems LLC

Anticollision Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well Thistle Unit 125H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3711.2' GE + 23.5' KB @ 3734.70usft
Reference Site:	Thistle Unit Sec 22-27 Trac Pad	MD Reference:	3711.2' GE + 23.5' KB @ 3734.70usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Thistle Unit 125H	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 #2	Offset TVD Reference:	Offset Datum

Offset Design Thistle Unit Sec 22-27 Trac Pad - Thistle Unit 160H - OH - Plan #2													Offset Site Error:	0.00 usft
Survey Program: 0-LEAM MWD+HDGM													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	
0.00	0.00	0.00	0.00	0.00	0.00	89.68	0.34	59.96	59.97					
100.00	100.00	99.10	99.10	0.09	0.09	89.68	0.34	59.96	59.96	59.79	0.17	350.296		
200.00	200.00	199.10	199.10	0.31	0.31	89.68	0.34	59.96	59.96	59.34	0.62	96.796		
300.00	300.00	299.10	299.10	0.54	0.53	89.68	0.34	59.96	59.96	58.89	1.07	56.091		
400.00	400.00	399.10	399.10	0.76	0.76	89.68	0.34	59.96	59.96	58.44	1.52	39.486		
500.00	500.00	499.10	499.10	0.99	0.98	89.68	0.34	59.96	59.96	57.99	1.97	30.467		
600.00	600.00	599.10	599.10	1.21	1.21	89.68	0.34	59.96	59.96	57.54	2.42	24.802		
700.00	700.00	699.10	699.10	1.43	1.43	89.68	0.34	59.96	59.96	57.09	2.87	20.913		
800.00	800.00	799.10	799.10	1.66	1.66	89.68	0.34	59.96	59.96	56.64	3.32	18.079		
900.00	900.00	899.10	899.10	1.88	1.88	89.68	0.34	59.96	59.96	56.19	3.77	15.921		
1,000.00	1,000.00	999.10	999.10	2.11	2.11	89.68	0.34	59.96	59.96	55.75	4.22	14.223		
1,100.00	1,100.00	1,099.10	1,099.10	2.33	2.33	89.68	0.34	59.96	59.96	55.30	4.67	12.853		
1,200.00	1,200.00	1,199.10	1,199.10	2.56	2.56	89.68	0.34	59.96	59.96	54.85	5.11	11.723		
1,300.00	1,300.00	1,299.10	1,299.10	2.78	2.78	89.68	0.34	59.96	59.96	54.40	5.56	10.776		
1,400.00	1,400.00	1,399.10	1,399.10	3.01	3.01	89.68	0.34	59.96	59.96	53.95	6.01	9.970		
1,500.00	1,500.00	1,499.10	1,499.10	3.23	3.23	89.68	0.34	59.96	59.96	53.50	6.46	9.277		
1,600.00	1,600.00	1,599.10	1,599.10	3.46	3.46	89.68	0.34	59.96	59.96	53.05	6.91	8.674		
1,700.00	1,700.00	1,699.10	1,699.10	3.68	3.68	89.68	0.34	59.96	59.96	52.60	7.36	8.144		
1,800.00	1,800.00	1,799.10	1,799.10	3.91	3.90	89.68	0.34	59.96	59.96	52.15	7.81	7.676		
1,900.00	1,900.00	1,899.10	1,899.10	4.13	4.13	89.68	0.34	59.96	59.96	51.70	8.26	7.258		
2,000.00	2,000.00	1,999.10	1,999.10	4.36	4.35	89.68	0.34	59.96	59.96	51.25	8.71	6.883		
2,100.00	2,100.00	2,099.10	2,099.10	4.58	4.58	89.68	0.34	59.96	59.96	50.80	9.16	6.546		
2,200.00	2,200.00	2,199.10	2,199.10	4.81	4.80	89.68	0.34	59.96	59.96	50.35	9.61	6.239		
2,300.00	2,300.00	2,299.10	2,299.10	5.03	5.03	89.68	0.34	59.96	59.96	49.90	10.06	5.961		
2,400.00	2,400.00	2,399.10	2,399.10	5.26	5.25	89.68	0.34	59.96	59.96	49.45	10.51	5.706		
2,500.00	2,500.00	2,499.10	2,499.10	5.48	5.48	89.68	0.34	59.96	59.96	49.00	10.96	5.472		
2,600.00	2,600.00	2,599.10	2,599.10	5.71	5.70	89.68	0.34	59.96	59.96	48.55	11.41	5.256		
2,700.00	2,700.00	2,699.10	2,699.10	5.93	5.93	89.68	0.34	59.96	59.96	48.10	11.86	5.057		
2,800.00	2,800.00	2,799.10	2,799.10	6.15	6.15	89.68	0.34	59.96	59.96	47.65	12.31	4.872		
2,900.00	2,900.00	2,899.10	2,899.10	6.38	6.38	89.68	0.34	59.96	59.96	47.20	12.76	4.700		
3,000.00	3,000.00	2,999.10	2,999.10	6.60	6.60	89.68	0.34	59.96	59.96	46.75	13.21	4.540 CC, ES		
3,100.00	3,100.00	3,098.45	3,098.45	6.83	6.82	89.05	1.01	60.48	60.49	46.84	13.65	4.432		
3,200.00	3,200.00	3,197.74	3,197.70	7.05	7.04	87.20	3.03	62.06	62.15	48.06	14.09	4.411 SF		
3,300.00	3,300.00	3,296.91	3,296.77	7.28	7.26	84.35	6.40	64.69	65.05	50.52	14.53	4.478		
3,400.00	3,400.00	3,396.44	3,396.14	7.50	7.48	80.92	10.89	68.19	69.12	54.16	14.96	4.619		
3,500.00	3,500.00	3,496.26	3,495.80	7.73	7.70	77.82	15.50	71.78	73.51	58.10	15.41	4.772		
3,600.00	3,600.00	3,596.09	3,595.46	7.95	7.92	75.07	20.10	75.37	78.09	62.24	15.85	4.927		
3,700.00	3,700.00	3,695.92	3,695.11	8.18	8.15	72.63	24.71	78.96	82.84	66.54	16.29	5.084		
3,800.00	3,800.00	3,795.75	3,794.77	8.40	8.37	70.45	29.31	82.56	87.71	70.97	16.74	5.240		
3,900.00	3,900.00	3,895.58	3,894.43	8.63	8.60	68.51	33.91	86.15	92.70	75.52	17.18	5.395		
4,000.00	4,000.00	3,895.41	3,894.09	8.85	8.82	66.77	38.52	89.74	97.78	80.16	17.63	5.547		
4,100.00	4,100.00	4,095.25	4,093.75	9.07	9.05	102.80	43.12	93.33	103.14	85.07	18.07	5.707		
4,200.00	4,199.96	4,195.08	4,193.41	9.29	9.28	102.65	47.73	96.92	108.90	90.39	18.51	5.883		
4,300.00	4,299.86	4,294.88	4,293.04	9.51	9.50	103.37	52.33	100.51	115.05	96.10	18.95	6.070		
4,400.00	4,399.68	4,394.61	4,392.60	9.74	9.73	104.79	56.93	104.10	121.65	102.26	19.40	6.272		
4,509.06	4,508.39	4,503.26	4,501.07	9.98	9.98	107.01	61.94	108.01	129.51	109.63	19.88	6.514		
4,600.00	4,598.97	4,593.82	4,591.47	10.18	10.19	109.07	66.12	111.26	136.48	116.19	20.29	6.727		
4,700.00	4,698.58	4,693.38	4,690.87	10.41	10.42	111.10	70.71	114.85	144.33	123.59	20.74	6.960		
4,800.00	4,798.18	4,792.95	4,790.26	10.64	10.65	112.91	75.30	118.43	152.34	131.15	21.19	7.189		
4,900.00	4,897.79	4,892.52	4,889.66	10.87	10.88	114.55	79.89	122.01	160.49	138.85	21.64	7.416		
5,000.00	4,997.39	4,992.09	4,989.06	11.10	11.11	116.02	84.48	125.59	168.75	146.66	22.10	7.637		
5,100.00	5,097.00	5,091.66	5,088.46	11.33	11.34	117.36	89.08	129.17	177.12	154.57	22.55	7.854		

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

LEAM Drilling Systems LLC

Anticollision Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well Thistle Unit 125H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3711.2' GE + 23.5' KB @ 3734.70usft
Reference Site:	Thistle Unit Sec 22-27 Trac Pad	MD Reference:	3711.2' GE + 23.5' KB @ 3734.70usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Thistle Unit 125H	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 #2	Offset TVD Reference:	Offset Datum

Offset Design Thistle Unit Sec 22-27 Trac Pad - Thistle Unit 160H - OH - Plan #2													Offset Site Error:	0.00 usft
Survey Program: O-LEAM MWD+HDGM													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)						
5,200.00	5,196.61	5,191.78	5,188.41	11.56	11.57	118.59	93.65	132.75	185.54	162.53	23.01	8.065		
5,300.00	5,296.21	5,293.79	5,290.32	11.80	11.76	120.01	97.31	135.60	193.15	169.72	23.43	8.244		
5,400.00	5,395.82	5,395.86	5,392.34	12.03	11.94	121.69	99.54	137.34	199.64	175.79	23.85	8.372		
5,500.00	5,495.42	5,497.91	5,494.39	12.27	12.12	123.64	100.34	137.96	205.11	180.85	24.26	8.455		
5,600.00	5,595.03	5,597.65	5,594.13	12.51	12.31	125.65	100.34	137.96	210.17	185.48	24.69	8.514		
5,696.97	5,691.61	5,694.23	5,690.71	12.74	12.53	127.50	100.34	137.96	215.31	190.19	25.12	8.570		
5,700.00	5,694.63	5,697.25	5,693.73	12.75	12.53	127.56	100.34	137.96	215.47	190.34	25.14	8.572		
5,800.00	5,794.32	5,796.94	5,793.42	12.93	12.75	129.24	100.34	137.96	220.42	194.88	25.54	8.630		
5,900.00	5,894.12	5,896.74	5,893.22	13.12	12.97	130.49	100.34	137.96	224.41	198.46	25.95	8.649		
6,000.00	5,994.02	5,996.64	5,993.12	13.30	13.19	131.37	100.34	137.96	227.34	200.99	26.35	8.628		
6,100.00	6,093.98	6,096.60	6,093.08	13.48	13.41	131.90	100.34	137.96	229.15	202.40	26.75	8.566		
6,206.02	6,200.00	6,202.62	6,199.10	13.67	13.65	94.91	100.34	137.96	229.80	202.63	27.17	8.457		
6,300.00	6,293.98	6,296.60	6,293.08	13.85	13.86	94.91	100.34	137.96	229.80	202.23	27.57	8.336		
6,400.00	6,393.98	6,396.60	6,393.08	14.08	14.08	94.91	100.34	137.96	229.80	201.79	28.01	8.204		
6,500.00	6,493.98	6,496.60	6,493.08	14.30	14.30	94.91	100.34	137.96	229.80	201.35	28.46	8.076		
6,600.00	6,593.98	6,596.60	6,593.08	14.52	14.52	94.91	100.34	137.96	229.80	200.90	28.90	7.952		
6,700.00	6,693.98	6,696.60	6,693.08	14.74	14.74	94.91	100.34	137.96	229.80	200.46	29.34	7.831		
6,800.00	6,793.98	6,796.60	6,793.08	14.96	14.97	94.91	100.34	137.96	229.80	200.01	29.79	7.715		
6,900.00	6,893.98	6,896.60	6,893.08	15.18	15.19	94.91	100.34	137.96	229.80	199.57	30.23	7.601		
7,000.00	6,993.98	6,996.60	6,993.08	15.40	15.41	94.91	100.34	137.96	229.80	199.13	30.68	7.491		
7,100.00	7,093.98	7,096.60	7,093.08	15.62	15.63	94.91	100.34	137.96	229.80	198.68	31.12	7.384		
7,200.00	7,193.98	7,196.60	7,193.08	15.85	15.86	94.91	100.34	137.96	229.80	198.24	31.57	7.280		
7,300.00	7,293.98	7,296.60	7,293.08	16.07	16.08	94.91	100.34	137.96	229.80	197.79	32.01	7.179		
7,400.00	7,393.98	7,396.60	7,393.08	16.29	16.30	94.91	100.34	137.96	229.80	197.35	32.46	7.080		
7,500.00	7,493.98	7,496.60	7,493.08	16.51	16.52	94.91	100.34	137.96	229.80	196.90	32.90	6.984		
7,600.00	7,593.98	7,596.60	7,593.08	16.73	16.75	94.91	100.34	137.96	229.80	196.45	33.35	6.891		
7,700.00	7,693.98	7,696.60	7,693.08	16.96	16.97	94.91	100.34	137.96	229.80	196.01	33.79	6.800		
7,800.00	7,793.98	7,796.60	7,793.08	17.18	17.19	94.91	100.34	137.96	229.80	195.56	34.24	6.712		
7,900.00	7,893.98	7,896.60	7,893.08	17.40	17.41	94.91	100.34	137.96	229.80	195.12	34.68	6.625		
8,000.00	7,993.98	7,996.60	7,993.08	17.62	17.64	94.91	100.34	137.96	229.80	194.67	35.13	6.541		
8,100.00	8,093.98	8,096.60	8,093.08	17.84	17.86	94.91	100.34	137.96	229.80	194.23	35.58	6.459		
8,200.00	8,193.98	8,196.60	8,193.08	18.07	18.08	94.91	100.34	137.96	229.80	193.78	36.02	6.379		
8,300.00	8,293.98	8,296.60	8,293.08	18.29	18.31	94.91	100.34	137.96	229.80	193.33	36.47	6.301		
8,400.00	8,393.98	8,396.60	8,393.08	18.51	18.53	94.91	100.34	137.96	229.80	192.89	36.91	6.225		
8,500.00	8,493.98	8,496.60	8,493.08	18.73	18.75	94.91	100.34	137.96	229.80	192.44	37.36	6.151		
8,600.00	8,593.98	8,596.60	8,593.08	18.96	18.97	94.91	100.34	137.96	229.80	192.00	37.81	6.078		
8,700.00	8,693.98	8,696.60	8,693.08	19.18	19.20	94.91	100.34	137.96	229.80	191.55	38.25	6.007		
8,800.00	8,793.98	8,796.60	8,793.08	19.40	19.42	94.91	100.34	137.96	229.80	191.10	38.70	5.938		
8,900.00	8,893.98	8,896.60	8,893.08	19.63	19.64	94.91	100.34	137.96	229.80	190.66	39.15	5.870		
9,000.00	8,993.98	8,996.60	8,993.08	19.85	19.87	94.91	100.34	137.96	229.80	190.21	39.59	5.804		
9,000.15	8,994.12	8,996.74	8,993.22	19.85	19.87	94.91	100.34	137.96	229.80	190.21	39.59	5.804		
9,100.00	9,093.98	9,096.60	9,093.08	20.07	20.07	95.33	98.63	137.97	229.97	189.95	40.02	5.746		
9,200.00	9,193.98	9,196.60	9,193.08	20.29	20.23	98.98	83.80	138.08	232.11	191.76	40.36	5.752		
9,300.00	9,293.98	9,296.60	9,293.08	20.52	20.36	105.41	56.78	138.28	239.35	198.84	40.51	5.908		
9,400.00	9,393.98	9,396.60	9,393.08	20.74	20.47	112.72	23.88	138.52	255.98	215.83	40.15	6.376		
9,500.00	9,493.98	9,496.60	9,493.08	20.96	20.56	120.31	-14.35	138.80	285.10	245.83	39.27	7.259		
9,529.07	9,523.05	9,436.98	9,404.83	21.03	20.59	122.25	-25.07	138.88	296.07	257.18	38.89	7.614		
9,550.00	9,543.97	9,450.00	9,414.91	21.07	20.61	-55.17	-33.32	138.94	304.45	265.84	38.61	7.886		
9,600.00	9,593.79	9,478.36	9,436.20	21.15	20.64	-50.68	-52.06	139.08	324.95	287.15	37.80	8.598		
9,650.00	9,643.08	9,500.00	9,451.80	21.23	20.67	-47.18	-67.05	139.19	345.81	309.12	36.69	9.426		
9,700.00	9,691.45	9,535.75	9,476.30	21.30	20.73	-43.15	-93.07	139.38	366.27	330.14	36.13	10.139		
9,750.00	9,738.54	9,564.11	9,494.55	21.37	20.77	-40.12	-114.77	139.54	386.31	351.04	35.28	10.951		

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

LEAM Drilling Systems LLC

Anticollision Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well Thistle Unit 125H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3711.2' GE + 23.5' KB @ 3734.70usft
Reference Site:	Thistle Unit Sec 22-27 Trac Pad	MD Reference:	3711.2' GE + 23.5' KB @ 3734.70usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Thistle Unit 125H	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 #2	Offset TVD Reference:	Offset Datum

Offset Design Thistle Unit Sec 22-27 Trac Pad - Thistle Unit 160H - OH - Plan #2													Offset Site Error:	0.00 usft
Survey Program: O-LEAM MWD+HDGM													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)		+N-S (usft)	+E-W (usft)						
9,800.00	9,783.99	9,600.00	9,516.07	21.44	20.85	-37.18	-143.48	139.75	405.68	370.97	34.72	11.685		
9,850.00	9,827.46	9,620.32	9,527.45	21.51	20.89	-35.26	-160.32	139.88	423.83	390.22	33.61	12.609		
9,900.00	9,868.60	9,650.00	9,542.98	21.57	20.97	-33.29	-185.61	140.07	440.94	408.06	32.88	13.410		
9,950.00	9,907.12	9,675.98	9,555.48	21.63	21.05	-31.71	-208.38	140.23	456.74	424.66	32.07	14.241		
10,000.00	9,942.72	9,700.00	9,566.10	21.69	21.12	-30.40	-229.92	140.39	471.16	439.89	31.26	15.071		
10,050.00	9,975.12	9,731.25	9,578.56	21.75	21.23	-29.16	-258.58	140.60	484.03	453.29	30.74	15.747		
10,100.00	10,004.08	9,750.00	9,585.28	21.84	21.30	-28.31	-276.08	140.73	495.50	465.54	29.96	16.539		
10,150.00	10,029.38	9,786.24	9,596.62	21.96	21.44	-27.41	-310.49	140.98	505.06	475.35	29.70	17.003		
10,200.00	10,050.82	9,813.66	9,603.75	22.11	21.56	-26.78	-336.96	141.18	513.07	483.75	29.33	17.496		
10,250.00	10,068.25	9,850.00	9,611.23	22.28	21.72	-26.25	-372.52	141.44	519.52	490.32	29.20	17.791		
10,300.00	10,081.53	9,868.39	9,614.15	22.47	21.81	-25.97	-390.67	141.57	523.93	495.04	28.89	18.133		
10,350.00	10,090.56	9,900.00	9,617.81	22.69	21.97	-25.76	-422.07	141.81	526.75	497.86	28.89	18.230		
10,400.00	10,095.27	9,923.05	9,619.38	22.93	22.09	-25.70	-445.06	141.98	527.73	498.79	28.94	18.236		
10,425.46	10,096.00	9,936.96	9,619.88	23.06	22.17	-25.71	-458.96	142.08	527.56	498.53	29.03	18.173		
10,446.82	10,096.13	9,950.00	9,620.04	23.18	22.24	-25.71	-472.00	142.17	527.42	498.29	29.13	18.104		
10,500.00	10,096.47	9,994.82	9,619.58	23.47	22.50	-25.68	-516.82	142.50	528.16	498.73	29.43	17.945		
10,600.00	10,097.10	10,094.80	9,618.45	24.11	23.16	-25.59	-616.79	143.24	529.75	499.63	30.12	17.589		
10,700.00	10,097.73	10,194.79	9,617.32	24.84	23.91	-25.51	-716.77	143.98	531.33	500.43	30.91	17.192		
10,800.00	10,098.36	10,294.77	9,616.20	25.66	24.75	-25.43	-816.74	144.71	532.92	501.13	31.79	16.765		
10,900.00	10,098.99	10,394.76	9,615.07	26.55	25.67	-25.35	-916.72	145.45	534.51	501.75	32.76	16.318		
11,000.00	10,099.62	10,494.74	9,613.94	27.51	26.65	-25.27	-1,016.70	146.18	536.10	502.30	33.80	15.860		
11,100.00	10,100.25	10,594.73	9,612.82	28.54	27.70	-25.19	-1,116.67	146.92	537.69	502.77	34.92	15.399		
11,200.00	10,100.88	10,694.71	9,611.69	29.61	28.80	-25.11	-1,216.65	147.66	539.28	503.18	36.10	14.940		
11,300.00	10,101.51	10,794.70	9,610.57	30.74	29.95	-25.03	-1,316.62	148.39	540.87	503.54	37.33	14.488		
11,400.00	10,102.15	10,894.68	9,609.44	31.91	31.15	-24.95	-1,416.60	149.13	542.47	503.85	38.62	14.047		
11,500.00	10,102.78	10,994.67	9,608.31	33.12	32.38	-24.88	-1,516.57	149.86	544.06	504.11	39.95	13.619		
11,600.00	10,103.41	11,094.65	9,607.19	34.37	33.65	-24.80	-1,616.55	150.60	545.66	504.34	41.32	13.206		
11,700.00	10,104.04	11,194.63	9,606.06	35.65	34.95	-24.72	-1,716.52	151.34	547.26	504.53	42.73	12.808		
11,800.00	10,104.67	11,294.62	9,604.93	36.96	36.28	-24.65	-1,816.50	152.07	548.85	504.69	44.16	12.428		
11,900.00	10,105.30	11,394.60	9,603.81	38.29	37.63	-24.57	-1,916.47	152.81	550.45	504.82	45.63	12.063		
12,000.00	10,105.93	11,494.59	9,602.68	39.65	39.00	-24.49	-2,016.45	153.54	552.05	504.93	47.12	11.716		
12,100.00	10,106.56	11,594.57	9,601.55	41.02	40.40	-24.42	-2,116.43	154.28	553.65	505.02	48.63	11.384		
12,200.00	10,107.19	11,694.56	9,600.43	42.42	41.81	-24.34	-2,216.40	155.02	555.25	505.09	50.17	11.068		
12,300.00	10,107.82	11,794.54	9,599.30	43.83	43.23	-24.27	-2,316.38	155.75	556.86	505.14	51.72	10.767		
12,400.00	10,108.46	11,894.53	9,598.18	45.26	44.68	-24.20	-2,416.35	156.49	558.46	505.18	53.28	10.481		
12,500.00	10,109.09	11,994.51	9,597.05	46.70	46.13	-24.12	-2,516.33	157.22	560.06	505.20	54.86	10.208		
12,600.00	10,109.72	12,094.50	9,595.92	48.15	47.60	-24.05	-2,616.30	157.96	561.67	505.21	56.46	9.949		
12,700.00	10,110.35	12,194.48	9,594.80	49.62	49.07	-23.98	-2,716.28	158.70	563.28	505.21	58.06	9.701		
12,800.00	10,110.98	12,294.46	9,593.67	51.09	50.56	-23.90	-2,816.25	159.43	564.88	505.21	59.68	9.466		
12,900.00	10,111.61	12,394.45	9,592.54	52.58	52.06	-23.83	-2,916.23	160.17	566.49	505.19	61.30	9.242		
13,000.00	10,112.24	12,494.43	9,591.42	54.07	53.56	-23.76	-3,016.21	160.90	568.10	505.17	62.93	9.028		
13,100.00	10,112.87	12,594.42	9,590.29	55.58	55.08	-23.69	-3,116.18	161.64	569.71	505.14	64.57	8.824		
13,200.00	10,113.50	12,694.40	9,589.16	57.09	56.60	-23.62	-3,216.16	162.38	571.32	505.11	66.21	8.629		
13,300.00	10,114.13	12,794.39	9,588.04	58.60	58.12	-23.55	-3,316.13	163.11	572.93	505.07	67.86	8.443		
13,400.00	10,114.77	12,894.37	9,586.91	60.13	59.65	-23.48	-3,416.11	163.85	574.54	505.03	69.51	8.265		
13,500.00	10,115.40	12,994.36	9,585.78	61.66	61.19	-23.41	-3,516.08	164.58	576.16	504.99	71.17	8.095		
13,600.00	10,116.03	13,094.34	9,584.66	63.19	62.73	-23.34	-3,616.06	165.32	577.77	504.94	72.83	7.933		
13,700.00	10,116.66	13,194.33	9,583.53	64.73	64.28	-23.27	-3,716.03	166.06	579.39	504.89	74.50	7.777		
13,800.00	10,117.29	13,294.31	9,582.41	66.28	65.83	-23.20	-3,816.01	166.79	581.00	504.83	76.17	7.628		
13,900.00	10,117.92	13,394.29	9,581.28	67.82	67.39	-23.14	-3,915.98	167.53	582.62	504.78	77.84	7.485		
14,000.00	10,118.55	13,494.28	9,580.15	69.38	68.95	-23.07	-4,015.96	168.26	584.24	504.73	79.51	7.348		
14,100.00	10,119.18	13,594.26	9,579.03	70.93	70.51	-23.00	-4,115.94	169.00	585.85	504.67	81.18	7.216		

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

LEAM Drilling Systems LLC

Anticollision Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well Thistle Unit 125H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3711.2' GE + 23.5' KB @ 3734.70usft
Reference Site:	Thistle Unit Sec 22-27 Trac Pad	MD Reference:	3711.2' GE + 23.5' KB @ 3734.70usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Thistle Unit 125H	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 #2	Offset TVD Reference:	Offset Datum

Offset Design Thistle Unit Sec 22-27 Trac Pad - Thistle Unit 160H - OH - Plan #2													Offset Site Error:	0.00 usft
Survey Program: O-LEAM MWD+HDGM													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)						
14,200.00	10,119.81	13,694.25	9,577.90	72.50	72.08	-22.93	-4,215.91	169.74	587.47	504.61	82.86	7.090		
14,300.00	10,120.44	13,794.23	9,576.77	74.06	73.65	-22.87	-4,315.89	170.47	589.09	504.56	84.54	6.969		
14,400.00	10,121.08	13,894.22	9,575.65	75.63	75.22	-22.80	-4,415.86	171.21	590.71	504.50	86.21	6.852		
14,500.00	10,121.71	13,994.20	9,574.52	77.20	76.80	-22.74	-4,515.84	171.94	592.33	504.44	87.89	6.739		
14,600.00	10,122.34	14,094.19	9,573.39	78.77	78.37	-22.67	-4,615.81	172.68	593.96	504.38	89.57	6.631		
14,700.00	10,122.97	14,194.17	9,572.27	80.35	79.96	-22.61	-4,715.79	173.42	595.58	504.33	91.25	6.527		
14,800.00	10,123.60	14,294.16	9,571.14	81.92	81.54	-22.54	-4,815.76	174.15	597.20	504.27	92.93	6.426		
14,900.00	10,124.23	14,394.14	9,570.02	83.50	83.12	-22.48	-4,915.74	174.89	598.83	504.22	94.61	6.329		
15,000.00	10,124.86	14,494.12	9,568.89	85.09	84.71	-22.41	-5,015.72	175.62	600.45	504.16	96.29	6.236		
15,100.00	10,125.49	14,594.11	9,567.76	86.67	86.30	-22.35	-5,115.69	176.36	602.08	504.11	97.97	6.146		
15,200.00	10,126.12	14,694.09	9,566.64	88.26	87.89	-22.29	-5,215.67	177.10	603.70	504.06	99.65	6.058		
15,300.00	10,126.75	14,794.08	9,565.51	89.85	89.48	-22.22	-5,315.64	177.83	605.33	504.01	101.33	5.974		
15,400.00	10,127.39	14,894.06	9,564.38	91.44	91.08	-22.16	-5,415.62	178.57	606.96	503.96	103.00	5.893		
15,500.00	10,128.02	14,994.05	9,563.26	93.03	92.67	-22.10	-5,515.59	179.30	608.59	503.91	104.68	5.814		
15,600.00	10,128.65	15,094.03	9,562.13	94.62	94.27	-22.04	-5,615.57	180.04	610.22	503.86	106.36	5.737		
15,700.00	10,129.28	15,194.02	9,561.00	96.22	95.87	-21.97	-5,715.54	180.78	611.85	503.82	108.03	5.664		
15,800.00	10,129.91	15,294.00	9,559.88	97.82	97.47	-21.91	-5,815.52	181.51	613.48	503.77	109.71	5.592		
15,900.00	10,130.54	15,393.99	9,558.75	99.41	99.07	-21.85	-5,915.49	182.25	615.11	503.73	111.38	5.523		
16,000.00	10,131.17	15,493.97	9,557.63	101.01	100.67	-21.79	-6,015.47	182.98	616.74	503.69	113.05	5.455		
16,100.00	10,131.80	15,593.96	9,556.50	102.61	102.27	-21.73	-6,115.45	183.72	618.38	503.65	114.72	5.390		
16,200.00	10,132.43	15,693.94	9,555.37	104.22	103.88	-21.67	-6,215.42	184.46	620.01	503.61	116.39	5.327		
16,300.00	10,133.06	15,793.92	9,554.25	105.82	105.49	-21.61	-6,315.40	185.19	621.64	503.58	118.06	5.265		
16,400.00	10,133.70	15,893.91	9,553.12	107.42	107.09	-21.55	-6,415.37	185.93	623.28	503.55	119.73	5.206		
16,500.00	10,134.33	15,993.89	9,551.99	109.03	108.70	-21.49	-6,515.35	186.66	624.91	503.52	121.40	5.148		
16,600.00	10,134.96	16,093.88	9,550.87	110.63	110.31	-21.43	-6,615.32	187.40	626.55	503.49	123.06	5.091		
16,700.00	10,135.59	16,193.86	9,549.74	112.24	111.92	-21.38	-6,715.30	188.14	628.19	503.46	124.73	5.036		
16,800.00	10,136.22	16,293.85	9,548.61	113.85	113.53	-21.32	-6,815.27	188.87	629.83	503.43	126.39	4.983		
16,900.00	10,136.85	16,393.83	9,547.49	115.46	115.14	-21.26	-6,915.25	189.61	631.46	503.41	128.05	4.931		
17,000.00	10,137.48	16,493.82	9,546.36	117.07	116.75	-21.20	-7,015.23	190.34	633.10	503.39	129.71	4.881		
17,100.00	10,138.11	16,593.80	9,545.24	118.68	118.36	-21.15	-7,115.20	191.08	634.74	503.37	131.37	4.832		
17,200.00	10,138.74	16,693.79	9,544.11	120.29	119.98	-21.09	-7,215.18	191.82	636.38	503.35	133.03	4.784		
17,300.00	10,139.37	16,793.77	9,542.98	121.90	121.59	-21.03	-7,315.15	192.55	638.02	503.34	134.69	4.737		
17,400.00	10,140.01	16,893.75	9,541.86	123.52	123.20	-20.98	-7,415.13	193.29	639.66	503.32	136.34	4.692		
17,500.00	10,140.64	16,993.74	9,540.73	125.13	124.82	-20.92	-7,515.10	194.02	641.31	503.31	137.99	4.647		
17,557.62	10,141.00	17,051.35	9,540.08	126.06	125.75	-20.89	-7,572.70	194.45	642.25	503.31	138.94	4.622		

LEAM Drilling Systems LLC

Anticollision Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well Thistle Unit 125H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3711.2' GE + 23.5' KB @ 3734.70usft
Reference Site:	Thistle Unit Sec 22-27 Trac Pad	MD Reference:	3711.2' GE + 23.5' KB @ 3734.70usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Thistle Unit 125H	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 #2	Offset TVD Reference:	Offset Datum

Offset Design Thistle Unit Sec 22-27 Trac Pad - Thistle Unit 86H - OH - Plan #2													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 (°)	Distance		Minimum Separation (usft)	Separation Factor	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)						
0.00	0.00	0.00	0.00	0.00	0.00	89.66	0.18	30.02	30.03					
100.00	100.00	99.20	99.20	0.09	0.09	89.66	0.18	30.02	30.02	29.85	0.17	175.294		
200.00	200.00	199.20	199.20	0.31	0.31	89.66	0.18	30.02	30.02	29.40	0.62	48.445		
300.00	300.00	299.20	299.20	0.54	0.53	89.66	0.18	30.02	30.02	28.95	1.07	28.077		
400.00	400.00	399.20	399.20	0.76	0.76	89.66	0.18	30.02	30.02	28.50	1.52	19.767		
500.00	500.00	499.20	499.20	0.99	0.98	89.66	0.18	30.02	30.02	28.05	1.97	15.252		
600.00	600.00	599.20	599.20	1.21	1.21	89.66	0.18	30.02	30.02	27.60	2.42	12.416		
700.00	700.00	699.20	699.20	1.43	1.43	89.66	0.18	30.02	30.02	27.15	2.87	10.470		
800.00	800.00	799.20	799.20	1.66	1.66	89.66	0.18	30.02	30.02	26.70	3.32	9.051		
900.00	900.00	899.20	899.20	1.88	1.88	89.66	0.18	30.02	30.02	26.25	3.77	7.971		
1,000.00	1,000.00	999.20	999.20	2.11	2.11	89.66	0.18	30.02	30.02	25.80	4.22	7.121		
1,100.00	1,100.00	1,099.20	1,099.20	2.33	2.33	89.66	0.18	30.02	30.02	25.36	4.67	6.435		
1,200.00	1,200.00	1,199.20	1,199.20	2.56	2.56	89.66	0.18	30.02	30.02	24.91	5.12	5.869		
1,300.00	1,300.00	1,299.20	1,299.20	2.78	2.78	89.66	0.18	30.02	30.02	24.46	5.56	5.395		
1,400.00	1,400.00	1,399.20	1,399.20	3.01	3.01	89.66	0.18	30.02	30.02	24.01	6.01	4.992		
1,500.00	1,500.00	1,499.20	1,499.20	3.23	3.23	89.66	0.18	30.02	30.02	23.56	6.46	4.645		
1,600.00	1,600.00	1,599.20	1,599.20	3.46	3.46	89.66	0.18	30.02	30.02	23.11	6.91	4.343		
1,700.00	1,700.00	1,699.20	1,699.20	3.68	3.68	89.66	0.18	30.02	30.02	22.66	7.36	4.077		
1,800.00	1,800.00	1,799.20	1,799.20	3.91	3.91	89.66	0.18	30.02	30.02	22.21	7.81	3.843		
1,900.00	1,900.00	1,899.20	1,899.20	4.13	4.13	89.66	0.18	30.02	30.02	21.76	8.26	3.634		
2,000.00	2,000.00	1,999.20	1,999.20	4.36	4.35	89.66	0.18	30.02	30.02	21.31	8.71	3.446		
2,100.00	2,100.00	2,099.20	2,099.20	4.58	4.58	89.66	0.18	30.02	30.02	20.86	9.16	3.277		
2,200.00	2,200.00	2,199.20	2,199.20	4.81	4.80	89.66	0.18	30.02	30.02	20.41	9.61	3.124		
2,300.00	2,300.00	2,299.20	2,299.20	5.03	5.03	89.66	0.18	30.02	30.02	19.96	10.06	2.984		
2,400.00	2,400.00	2,399.20	2,399.20	5.26	5.25	89.66	0.18	30.02	30.02	19.51	10.51	2.857		
2,500.00	2,500.00	2,499.20	2,499.20	5.48	5.48	89.66	0.18	30.02	30.02	19.06	10.96	2.739		
2,600.00	2,600.00	2,599.20	2,599.20	5.71	5.70	89.66	0.18	30.02	30.02	18.61	11.41	2.631		
2,700.00	2,700.00	2,699.20	2,699.20	5.93	5.93	89.66	0.18	30.02	30.02	18.16	11.86	2.532		
2,800.00	2,800.00	2,799.20	2,799.20	6.15	6.15	89.66	0.18	30.02	30.02	17.71	12.31	2.439		
2,900.00	2,900.00	2,899.20	2,899.20	6.38	6.38	89.66	0.18	30.02	30.02	17.26	12.76	2.353		
3,000.00	3,000.00	2,999.20	2,999.20	6.60	6.60	89.66	0.18	30.02	30.02	16.81	13.21	2.273		
3,100.00	3,100.00	3,099.20	3,099.20	6.83	6.83	89.66	0.18	30.02	30.02	16.36	13.66	2.198		
3,200.00	3,200.00	3,199.20	3,199.20	7.05	7.05	89.66	0.18	30.02	30.02	15.91	14.11	2.128		
3,300.00	3,300.00	3,299.20	3,299.20	7.28	7.28	89.66	0.18	30.02	30.02	15.47	14.56	2.063		
3,400.00	3,400.00	3,399.20	3,399.20	7.50	7.50	89.66	0.18	30.02	30.02	15.02	15.00	2.001		
3,500.00	3,500.00	3,499.20	3,499.20	7.73	7.73	89.66	0.18	30.02	30.02	14.57	15.45	1.943 CC		
3,600.00	3,600.00	3,598.99	3,598.99	7.95	7.95	88.17	0.97	30.34	30.36	14.46	15.90	1.909 ES, SF		
3,700.00	3,700.00	3,698.72	3,698.68	8.18	8.17	83.86	3.37	31.32	31.51	15.16	16.35	1.928		
3,800.00	3,800.00	3,798.33	3,798.20	8.40	8.39	77.40	7.37	32.96	33.78	17.00	16.79	2.013		
3,900.00	3,900.00	3,898.00	3,897.69	8.63	8.62	70.08	12.74	35.15	37.42	20.19	17.23	2.172		
4,000.00	4,000.00	3,997.82	3,997.33	8.85	8.84	63.95	18.28	37.41	41.68	24.01	17.67	2.359		
4,100.00	4,100.00	4,097.66	4,096.99	9.07	9.06	97.21	23.83	39.68	46.44	28.33	18.11	2.564		
4,200.00	4,199.96	4,197.52	4,196.68	9.29	9.29	95.95	29.38	41.94	51.52	32.97	18.55	2.777		
4,300.00	4,299.86	4,297.38	4,296.35	9.51	9.51	96.67	34.93	44.21	56.80	37.80	19.00	2.990		
4,400.00	4,399.68	4,397.20	4,395.99	9.74	9.74	98.84	40.47	46.47	62.33	42.89	19.44	3.206		
4,509.06	4,508.39	4,505.98	4,504.58	9.98	9.99	102.42	46.52	48.94	68.85	48.92	19.93	3.455		
4,600.00	4,598.97	4,596.65	4,595.08	10.18	10.19	105.60	51.56	51.00	74.70	54.36	20.33	3.673		
4,700.00	4,698.58	4,696.34	4,694.60	10.41	10.42	108.57	57.10	53.26	81.35	60.56	20.79	3.914		
4,800.00	4,798.18	4,796.04	4,794.12	10.64	10.65	111.08	62.64	55.52	88.19	66.95	21.24	4.152		
4,900.00	4,897.79	4,895.74	4,893.63	10.87	10.88	113.22	68.18	57.78	95.17	73.48	21.69	4.387		
5,000.00	4,997.39	4,995.43	4,993.15	11.10	11.11	115.08	73.71	60.05	102.26	80.12	22.15	4.618		
5,100.00	5,097.00	5,095.13	5,092.67	11.33	11.34	116.69	79.25	62.31	109.45	86.85	22.60	4.842		

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 Thistle Unit 125H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3711.2' GE + 23.5' KB @ 3734.70usft
Reference Site:	Thistle Unit Sec 22-27 Trac Pad	MD Reference:	3711.2' GE + 23.5' KB @ 3734.70usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Thistle Unit 125H	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 #2	Offset TVD Reference:	Offset Datum

Offset Design Thistle Unit Sec 22-27 Trac Pad - Thistle Unit 86H - OH - Plan #2													Offset Site Error:	0.00 usft
Survey Program: O-LEAM MWD+HDGM													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)						
5,200.00	5,196.61	5,194.83	5,192.19	11.56	11.57	118.10	84.79	64.57	116.71	93.65	23.06	5.061		
5,300.00	5,296.21	5,294.53	5,291.70	11.80	11.80	119.34	90.33	66.83	124.04	100.52	23.52	5.274		
5,400.00	5,395.82	5,394.22	5,391.22	12.03	12.03	120.45	95.87	69.09	131.42	107.44	23.98	5.481		
5,500.00	5,495.42	5,493.92	5,490.74	12.27	12.26	121.43	101.41	71.36	138.84	114.40	24.44	5.681		
5,600.00	5,595.03	5,593.62	5,590.26	12.51	12.49	122.32	106.95	73.62	146.30	121.39	24.90	5.875		
5,696.97	5,691.61	5,690.66	5,687.13	12.74	12.71	123.13	112.27	75.79	153.52	128.18	25.34	6.057		
5,700.00	5,694.63	5,693.72	5,690.18	12.75	12.71	123.16	112.42	75.85	153.74	128.38	25.36	6.063		
5,800.00	5,794.32	5,794.68	5,791.04	12.93	12.90	124.15	116.65	77.58	160.11	134.39	25.73	6.224		
5,900.00	5,894.12	5,895.73	5,892.05	13.12	13.07	125.12	119.24	78.64	164.80	138.71	26.09	6.317		
6,000.00	5,994.02	5,996.83	5,993.14	13.30	13.25	126.09	120.18	79.02	167.81	141.36	26.45	6.345		
6,100.00	6,093.98	6,096.87	6,093.18	13.48	13.44	126.84	120.18	79.02	169.43	142.61	26.82	6.317		
6,206.02	6,200.00	6,202.89	6,199.20	13.67	13.68	89.94	120.18	79.02	170.02	142.78	27.24	6.241		
6,300.00	6,293.98	6,296.86	6,293.18	13.85	13.89	89.94	120.18	79.02	170.02	142.38	27.64	6.152		
6,400.00	6,393.98	6,396.86	6,393.18	14.08	14.11	89.94	120.18	79.02	170.02	141.94	28.08	6.054		
6,500.00	6,493.98	6,496.86	6,493.18	14.30	14.33	89.94	120.18	79.02	170.02	141.49	28.53	5.960		
6,600.00	6,593.98	6,596.86	6,593.18	14.52	14.55	89.94	120.18	79.02	170.02	141.05	28.97	5.869		
6,700.00	6,693.98	6,696.86	6,693.18	14.74	14.77	89.94	120.18	79.02	170.02	140.61	29.41	5.780		
6,800.00	6,793.98	6,796.86	6,793.18	14.96	15.00	89.94	120.18	79.02	170.02	140.16	29.86	5.694		
6,900.00	6,893.98	6,896.86	6,893.18	15.18	15.22	89.94	120.18	79.02	170.02	139.72	30.30	5.611		
7,000.00	6,993.98	6,996.86	6,993.18	15.40	15.44	89.94	120.18	79.02	170.02	139.27	30.75	5.530		
7,100.00	7,093.98	7,096.86	7,093.18	15.62	15.66	89.94	120.18	79.02	170.02	138.83	31.19	5.451		
7,200.00	7,193.98	7,196.86	7,193.18	15.85	15.89	89.94	120.18	79.02	170.02	138.38	31.64	5.374		
7,300.00	7,293.98	7,296.86	7,293.18	16.07	16.11	89.94	120.18	79.02	170.02	137.94	32.08	5.300		
7,400.00	7,393.98	7,396.86	7,393.18	16.29	16.33	89.94	120.18	79.02	170.02	137.49	32.53	5.227		
7,500.00	7,493.98	7,496.86	7,493.18	16.51	16.55	89.94	120.18	79.02	170.02	137.05	32.97	5.157		
7,600.00	7,593.98	7,596.86	7,593.18	16.73	16.78	89.94	120.18	79.02	170.02	136.60	33.42	5.088		
7,700.00	7,693.98	7,696.86	7,693.18	16.96	17.00	89.94	120.18	79.02	170.02	136.16	33.86	5.021		
7,800.00	7,793.98	7,796.86	7,793.18	17.18	17.22	89.94	120.18	79.02	170.02	135.71	34.31	4.956		
7,900.00	7,893.98	7,896.86	7,893.18	17.40	17.45	89.94	120.18	79.02	170.02	135.27	34.75	4.892		
8,000.00	7,993.98	7,996.86	7,993.18	17.62	17.67	89.94	120.18	79.02	170.02	134.82	35.20	4.830		
8,100.00	8,093.98	8,096.86	8,093.18	17.84	17.89	89.94	120.18	79.02	170.02	134.37	35.65	4.770		
8,200.00	8,193.98	8,196.86	8,193.18	18.07	18.11	89.94	120.18	79.02	170.02	133.93	36.09	4.711		
8,300.00	8,293.98	8,296.86	8,293.18	18.29	18.34	89.94	120.18	79.02	170.02	133.48	36.54	4.653		
8,400.00	8,393.98	8,396.86	8,393.18	18.51	18.56	89.94	120.18	79.02	170.02	133.04	36.98	4.597		
8,500.00	8,493.98	8,496.86	8,493.18	18.73	18.78	89.94	120.18	79.02	170.02	132.59	37.43	4.542		
8,600.00	8,593.98	8,596.86	8,593.18	18.96	19.01	89.94	120.18	79.02	170.02	132.14	37.88	4.489		
8,700.00	8,693.98	8,696.86	8,693.18	19.18	19.23	89.94	120.18	79.02	170.02	131.70	38.32	4.437		
8,800.00	8,793.98	8,796.86	8,793.18	19.40	19.45	89.94	120.18	79.02	170.02	131.25	38.77	4.385		
8,900.00	8,893.98	8,896.86	8,893.18	19.63	19.68	89.94	120.18	79.02	170.02	130.80	39.22	4.336		
9,000.00	8,993.98	8,996.86	8,993.18	19.85	19.90	89.94	120.18	79.02	170.02	130.36	39.66	4.287		
9,100.00	9,093.98	9,096.86	9,093.18	20.07	20.12	89.94	120.18	79.02	170.02	129.91	40.11	4.239		
9,200.00	9,193.98	9,196.86	9,193.18	20.29	20.35	89.94	120.18	79.02	170.02	129.46	40.56	4.192		
9,300.00	9,293.98	9,296.86	9,293.18	20.52	20.57	89.94	120.18	79.02	170.02	129.02	41.00	4.147		
9,400.00	9,393.98	9,396.86	9,393.18	20.74	20.79	89.94	120.18	79.02	170.02	128.57	41.45	4.102		
9,500.00	9,493.98	9,496.86	9,493.18	20.96	21.02	89.94	120.18	79.02	170.02	128.12	41.90	4.058		
9,529.07	9,523.05	9,525.94	9,522.25	21.03	21.08	89.94	120.18	79.02	170.02	127.99	42.03	4.046		
9,550.00	9,543.97	9,546.86	9,543.17	21.07	21.13	-89.77	120.18	79.02	170.02	127.90	42.11	4.037		
9,564.07	9,558.02	9,560.91	9,557.22	21.09	21.16	-90.00	120.18	79.02	170.02	127.85	42.17	4.032		
9,600.00	9,593.79	9,596.68	9,592.99	21.15	21.24	-91.11	120.18	79.02	170.05	127.74	42.31	4.020		
9,650.00	9,643.08	9,645.97	9,642.28	21.23	21.35	-93.83	120.18	79.02	170.42	127.92	42.49	4.011		
9,700.00	9,691.45	9,694.34	9,690.65	21.30	21.46	-97.76	120.18	79.02	171.74	129.07	42.67	4.025		
9,750.00	9,738.54	9,741.43	9,737.74	21.37	21.57	-102.60	120.18	79.02	174.89	132.05	42.84	4.082		

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

LEAM Drilling Systems LLC

Anticollision Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well Thistle Unit 125H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3711.2' GE + 23.5' KB @ 3734.70usft
Reference Site:	Thistle Unit Sec 22-27 Trac Pad	MD Reference:	3711.2' GE + 23.5' KB @ 3734.70usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Thistle Unit 125H	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 #2	Offset TVD Reference:	Offset Datum

Offset Design Thistle Unit Sec 22-27 Trac Pad - Thistle Unit 86H - OH - Plan #2													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)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,800.00	9,783.99	9,786.88	9,783.19	21.44	21.67	-107.93	120.18	79.02	180.90	137.89	43.01	4.206		
9,850.00	9,827.46	9,830.34	9,826.66	21.51	21.76	-113.31	120.18	79.02	190.75	147.58	43.17	4.419		
9,900.00	9,868.60	9,871.49	9,867.80	21.57	21.86	-118.32	120.18	79.02	205.18	161.85	43.33	4.735		
9,950.00	9,907.12	9,910.01	9,906.32	21.63	21.94	-122.63	120.18	79.02	224.57	181.09	43.48	5.165		
10,000.00	9,942.72	9,945.60	9,941.92	21.69	22.02	-126.06	120.18	79.02	248.92	205.29	43.63	5.706		
10,050.00	9,975.12	9,978.00	9,974.32	21.75	22.09	-128.47	120.18	79.02	277.94	234.18	43.76	6.352		
10,100.00	10,004.08	10,006.96	10,003.28	21.84	22.16	-129.79	120.18	79.02	311.17	267.29	43.88	7.091		
10,150.00	10,029.38	10,033.99	10,030.31	21.96	22.22	-130.20	120.17	79.02	348.06	304.08	43.99	7.913		
10,200.00	10,050.82	10,089.28	10,085.49	22.11	22.31	-134.54	117.19	79.04	387.04	343.07	43.97	8.803		
10,250.00	10,068.25	10,159.16	10,154.41	22.28	22.42	-139.63	105.84	79.13	426.52	382.95	43.57	9.790		
10,300.00	10,081.53	10,256.62	10,247.12	22.47	22.57	-145.94	76.23	79.34	465.35	423.00	42.35	10.989		
10,350.00	10,090.56	10,412.07	10,380.85	22.69	22.78	-153.39	-2.11	79.92	501.11	462.03	39.08	12.824		
10,400.00	10,095.27	10,689.97	10,550.15	22.93	23.28	-159.93	-219.03	81.51	527.26	495.48	31.78	16.589		
10,425.46	10,096.00	10,891.42	10,598.65	23.06	24.04	-161.35	-413.49	82.94	532.51	503.36	29.15	18.270		
10,500.00	10,096.47	10,999.52	10,600.14	23.47	24.59	-161.38	-521.56	83.73	532.36	502.81	29.55	18.017		
10,600.00	10,097.10	11,099.52	10,600.35	24.11	25.20	-161.36	-621.55	84.46	531.96	501.82	30.14	17.649		
10,700.00	10,097.73	11,199.52	10,600.57	24.84	25.90	-161.35	-721.55	85.19	531.56	500.74	30.82	17.246		
10,800.00	10,098.36	11,299.52	10,600.78	25.66	26.68	-161.33	-821.54	85.93	531.16	499.58	31.58	16.817		
10,900.00	10,098.99	11,399.52	10,600.99	26.55	27.54	-161.32	-921.54	86.66	530.76	498.34	32.42	16.370		
11,000.00	10,099.62	11,499.52	10,601.20	27.51	28.46	-161.30	-1,021.54	87.40	530.36	497.03	33.33	15.912		
11,100.00	10,100.25	11,599.52	10,601.41	28.54	29.45	-161.29	-1,121.53	88.13	529.96	495.66	34.31	15.448		
11,200.00	10,100.88	11,699.52	10,601.62	29.61	30.49	-161.27	-1,221.53	88.86	529.57	494.23	35.34	14.985		
11,300.00	10,101.51	11,799.51	10,601.83	30.74	31.59	-161.26	-1,321.53	89.60	529.17	492.74	36.43	14.526		
11,400.00	10,102.15	11,899.51	10,602.04	31.91	32.73	-161.25	-1,421.52	90.33	528.77	491.20	37.57	14.075		
11,500.00	10,102.78	11,999.51	10,602.25	33.12	33.91	-161.23	-1,521.52	91.06	528.37	489.62	38.75	13.634		
11,600.00	10,103.41	12,099.51	10,602.46	34.37	35.13	-161.22	-1,621.51	91.80	527.97	487.99	39.98	13.206		
11,700.00	10,104.04	12,199.51	10,602.67	35.65	36.38	-161.20	-1,721.51	92.53	527.57	486.33	41.24	12.792		
11,800.00	10,104.67	12,299.51	10,602.88	36.96	37.66	-161.19	-1,821.51	93.26	527.17	484.63	42.54	12.391		
11,900.00	10,105.30	12,399.51	10,603.09	38.29	38.96	-161.17	-1,921.50	94.00	526.78	482.90	43.88	12.006		
12,000.00	10,105.93	12,499.51	10,603.30	39.65	40.30	-161.16	-2,021.50	94.73	526.38	481.14	45.24	11.636		
12,100.00	10,106.56	12,599.51	10,603.51	41.02	41.65	-161.14	-2,121.49	95.46	525.98	479.36	46.62	11.281		
12,200.00	10,107.19	12,699.51	10,603.72	42.42	43.02	-161.13	-2,221.49	96.20	525.58	477.55	48.04	10.941		
12,300.00	10,107.82	12,799.51	10,603.93	43.83	44.41	-161.11	-2,321.49	96.93	525.18	475.71	49.47	10.616		
12,400.00	10,108.46	12,899.51	10,604.14	45.26	45.82	-161.10	-2,421.48	97.67	524.79	473.86	50.93	10.305		
12,500.00	10,109.09	12,999.50	10,604.35	46.70	47.24	-161.08	-2,521.48	98.40	524.39	471.99	52.40	10.007		
12,600.00	10,109.72	13,099.50	10,604.56	48.15	48.68	-161.07	-2,621.48	99.13	523.99	470.10	53.89	9.723		
12,700.00	10,110.35	13,199.50	10,604.77	49.62	50.13	-161.05	-2,721.47	99.87	523.59	468.19	55.40	9.451		
12,800.00	10,110.98	13,299.50	10,604.98	51.09	51.59	-161.04	-2,821.47	100.60	523.19	466.27	56.92	9.191		
12,900.00	10,111.61	13,399.50	10,605.20	52.58	53.06	-161.02	-2,921.46	101.33	522.80	464.33	58.46	8.943		
13,000.00	10,112.24	13,499.50	10,605.41	54.07	54.54	-161.01	-3,021.46	102.07	522.40	462.39	60.01	8.705		
13,100.00	10,112.87	13,599.50	10,605.62	55.58	56.03	-160.99	-3,121.46	102.80	522.00	460.43	61.57	8.478		
13,200.00	10,113.50	13,699.50	10,605.83	57.09	57.53	-160.98	-3,221.45	103.53	521.60	458.46	63.15	8.260		
13,300.00	10,114.13	13,799.50	10,606.04	58.60	59.03	-160.96	-3,321.45	104.27	521.20	456.47	64.73	8.052		
13,400.00	10,114.77	13,899.50	10,606.25	60.13	60.54	-160.95	-3,421.45	105.00	520.81	454.48	66.32	7.852		
13,500.00	10,115.40	13,999.50	10,606.46	61.66	62.06	-160.93	-3,521.44	105.73	520.41	452.48	67.93	7.661		
13,600.00	10,116.03	14,099.49	10,606.67	63.19	63.58	-160.92	-3,621.44	106.47	520.01	450.47	69.54	7.478		
13,700.00	10,116.66	14,199.49	10,606.88	64.73	65.11	-160.90	-3,721.43	107.20	519.61	448.46	71.16	7.302		
13,800.00	10,117.29	14,299.49	10,607.09	66.28	66.65	-160.89	-3,821.43	107.94	519.22	446.43	72.78	7.134		
13,900.00	10,117.92	14,399.49	10,607.30	67.82	68.19	-160.87	-3,921.43	108.67	518.82	444.40	74.42	6.972		
14,000.00	10,118.55	14,499.49	10,607.51	69.38	69.73	-160.86	-4,021.42	109.40	518.42	442.36	76.06	6.816		
14,100.00	10,119.18	14,599.49	10,607.72	70.93	71.28	-160.84	-4,121.42	110.14	518.02	440.32	77.71	6.666		
14,200.00	10,119.81	14,699.49	10,607.93	72.50	72.83	-160.83	-4,221.42	110.87	517.63	438.27	79.36	6.523		

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

LEAM Drilling Systems LLC

Anticollision Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well Thistle Unit 125H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3711.2' GE + 23.5' KB @ 3734.70usft
Reference Site:	Thistle Unit Sec 22-27 Trac Pad	MD Reference:	3711.2' GE + 23.5' KB @ 3734.70usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Thistle Unit 125H	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 #2	Offset TVD Reference:	Offset Datum

Offset Design Thistle Unit Sec 22-27 Trac Pad - Thistle Unit 86H - OH - Plan #2													Offset Site Error:	0.00 usft
Survey Program: O-LEAM MWD+HDGM													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)						
14,300.00	10,120.44	14,799.49	10,608.14	74.06	74.39	-160.81	-4,321.41	111.60	517.23	436.21	81.02	6.384		
14,400.00	10,121.08	14,899.49	10,608.35	75.63	75.95	-160.80	-4,421.41	112.34	516.83	434.15	82.68	6.251		
14,500.00	10,121.71	14,999.49	10,608.56	77.20	77.51	-160.78	-4,521.40	113.07	516.43	432.08	84.35	6.122		
14,600.00	10,122.34	15,099.49	10,608.77	78.77	79.08	-160.77	-4,621.40	113.80	516.04	430.01	86.03	5.999		
14,700.00	10,122.97	15,199.48	10,608.98	80.35	80.65	-160.75	-4,721.40	114.54	515.64	427.93	87.70	5.879		
14,800.00	10,123.60	15,299.48	10,609.19	81.92	82.22	-160.74	-4,821.39	115.27	515.24	425.85	89.39	5.764		
14,900.00	10,124.23	15,399.48	10,609.40	83.50	83.79	-160.72	-4,921.39	116.00	514.84	423.77	91.08	5.653		
15,000.00	10,124.86	15,499.48	10,609.61	85.09	85.37	-160.71	-5,021.38	116.74	514.45	421.68	92.77	5.545		
15,100.00	10,125.49	15,599.48	10,609.83	86.67	86.95	-160.69	-5,121.38	117.47	514.05	419.59	94.46	5.442		
15,200.00	10,126.12	15,699.48	10,610.04	88.26	88.53	-160.68	-5,221.38	118.21	513.65	417.49	96.16	5.341		
15,300.00	10,126.75	15,799.48	10,610.25	89.85	90.11	-160.66	-5,321.37	118.94	513.26	415.39	97.87	5.244		
15,400.00	10,127.39	15,899.48	10,610.46	91.44	91.70	-160.64	-5,421.37	119.67	512.86	413.28	99.57	5.151		
15,500.00	10,128.02	15,999.48	10,610.67	93.03	93.29	-160.63	-5,521.37	120.41	512.46	411.18	101.28	5.060		
15,600.00	10,128.65	16,099.48	10,610.88	94.62	94.87	-160.61	-5,621.36	121.14	512.07	409.07	103.00	4.972		
15,700.00	10,129.28	16,199.48	10,611.09	96.22	96.47	-160.60	-5,721.36	121.87	511.67	406.95	104.71	4.886		
15,800.00	10,129.91	16,299.48	10,611.30	97.82	98.06	-160.58	-5,821.35	122.61	511.27	404.84	106.43	4.804		
15,900.00	10,130.54	16,399.47	10,611.51	99.41	99.65	-160.57	-5,921.35	123.34	510.87	402.72	108.16	4.723		
16,000.00	10,131.17	16,499.47	10,611.72	101.01	101.25	-160.55	-6,021.35	124.07	510.48	400.60	109.88	4.646		
16,100.00	10,131.80	16,599.47	10,611.93	102.61	102.84	-160.54	-6,121.34	124.81	510.08	398.47	111.61	4.570		
16,200.00	10,132.43	16,699.47	10,612.14	104.22	104.44	-160.52	-6,221.34	125.54	509.68	396.34	113.34	4.497		
16,300.00	10,133.06	16,799.47	10,612.35	105.82	106.04	-160.50	-6,321.34	126.27	509.29	394.21	115.07	4.426		
16,400.00	10,133.70	16,899.47	10,612.56	107.42	107.64	-160.49	-6,421.33	127.01	508.89	392.08	116.81	4.357		
16,500.00	10,134.33	16,999.47	10,612.77	109.03	109.24	-160.47	-6,521.33	127.74	508.49	389.95	118.55	4.289		
16,600.00	10,134.96	17,099.47	10,612.98	110.63	110.84	-160.46	-6,621.32	128.48	508.10	387.81	120.29	4.224		
16,700.00	10,135.59	17,199.47	10,613.19	112.24	112.45	-160.44	-6,721.32	129.21	507.70	385.67	122.03	4.160		
16,800.00	10,136.22	17,299.47	10,613.40	113.85	114.05	-160.42	-6,821.32	129.94	507.30	383.53	123.78	4.098		
16,900.00	10,136.85	17,399.47	10,613.61	115.46	115.66	-160.41	-6,921.31	130.68	506.91	381.38	125.53	4.038		
17,000.00	10,137.48	17,499.46	10,613.82	117.07	117.26	-160.39	-7,021.31	131.41	506.51	379.24	127.28	3.980		
17,100.00	10,138.11	17,599.46	10,614.03	118.68	118.87	-160.38	-7,121.31	132.14	506.12	377.09	129.03	3.923		
17,200.00	10,138.74	17,699.46	10,614.24	120.29	120.48	-160.36	-7,221.30	132.88	505.72	374.94	130.78	3.867		
17,300.00	10,139.37	17,799.46	10,614.46	121.90	122.09	-160.35	-7,321.30	133.61	505.32	372.79	132.54	3.813		
17,400.00	10,140.01	17,899.46	10,614.67	123.52	123.70	-160.33	-7,421.29	134.34	504.93	370.63	134.30	3.760		
17,500.00	10,140.64	17,999.46	10,614.88	125.13	125.31	-160.31	-7,521.29	135.08	504.53	368.47	136.06	3.708		
17,557.62	10,141.00	18,057.08	10,615.00	126.06	126.24	-160.30	-7,578.90	135.50	504.30	367.23	137.07	3.679		

LEAM Drilling Systems LLC

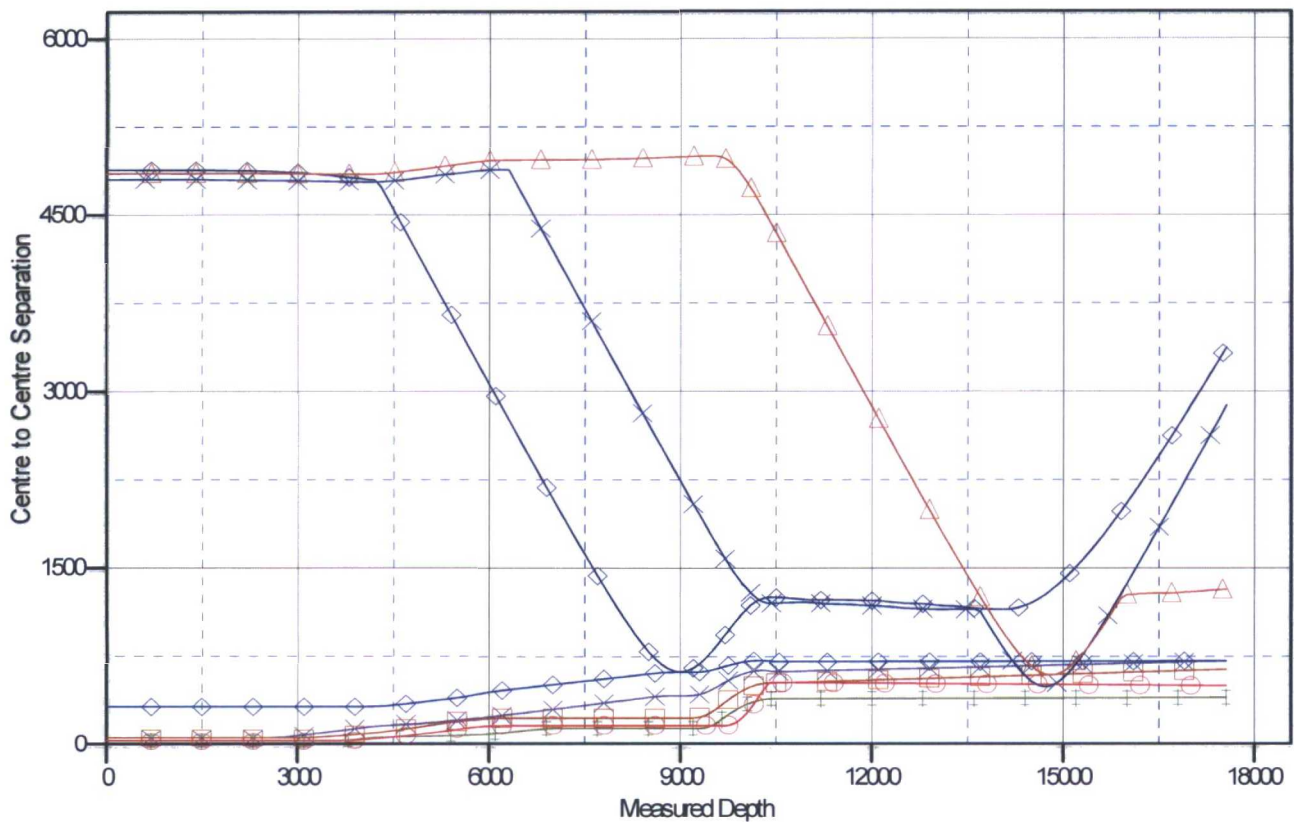
Anticollision Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well Thistle Unit 125H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3711.2' GE + 23.5' KB @ 3734.70usft
Reference Site:	Thistle Unit Sec 22-27 Trac Pad	MD Reference:	3711.2' GE + 23.5' KB @ 3734.70usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Thistle Unit 125H	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 #2	Offset TVD Reference:	Offset Datum

Reference Depths are relative to 3711.2' GE + 23.5' KB @ 3734.70usft
 Offset Depths are relative to Offset Datum
 Central Meridian is 104° 19' 60.0000 W

Coordinates are relative to: Thistle Unit 125H
 Coordinate System is US State Plane 1983, New Mexico Eastern Zone
 Grid Convergence at Surface is: 0.41°

Ladder Plot



LEGEND

- Thistle Unit 142H, OH, Plan #2 V0
- Thistle Unit 86H, OH, Plan #2 V0
- 61H, OH, OH V0
- Thistle Unit 110H, OH, Plan #2 V0
- Thistle Unit 114H, OH, Plan #2 V0
- 55H, OH, OH V0
- Thistle Unit 160H, OH, Plan #2 V0
- 26H, OH, OH V0

LEAM Drilling Systems LLC

Anticollision Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well Thistle Unit 125H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3711.2' GE + 23.5' KB @ 3734.70usft
Reference Site:	Thistle Unit Sec 22-27 Trac Pad	MD Reference:	3711.2' GE + 23.5' KB @ 3734.70usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Thistle Unit 125H	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 #2	Offset TVD Reference:	Offset Datum

Reference Depths are relative to 3711.2' GE + 23.5' KB @ 3734.70usft
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