

Devon Energy

Lea County, NM (NAD-83)

Fighting Okra 18-19 Fed

85H

OH

Plan #1

Anticollision Report

13 September, 2017

HOBBS OCD

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LEAM Drilling Systems LLC

Anticollision Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well 85H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3369.1' GE + 25' KB @ 3394.10usft
Reference Site:	Fighting Okra 18-19 Fed	MD Reference:	3369.1' GE + 25' KB @ 3394.10usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	85H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Multi User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Reference	Plan #1
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria
Interpolation Method:	Stations
Depth Range:	Unlimited
Results Limited by:	Maximum center-center distance of 9,999.98 usft
Warning Levels Evaluated at:	2.00 Sigma
Error Model:	ISCWSA
Scan Method:	Closest Approach 3D
Error Surface:	Elliptical Conic
Casing Method:	Not applied

Survey Tool Program	Date	9/13/2017
From (usft)	To (usft)	Survey (Wellbore)
0.00	22,867.23	Plan #1 (OH)
		Tool Name
		LEAM MWD+HDGM
		Description
		MWD+HDGM

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Fighting Okra 18-19 Fed						
14H - OH - Plan #1	3,500.00	3,502.10	2,553.73	2,538.27	165.211	CC, ES
14H - OH - Plan #1	22,867.23	22,130.25	3,353.60	3,030.94	10.394	SF
15H - OH - Plan #1	3,500.00	3,495.80	1,673.24	1,657.79	108.348	CC, ES
15H - OH - Plan #1	22,867.23	22,279.16	2,016.87	1,697.28	6.311	SF
2H - OH - Plan #1	2,416.02	2,417.92	2,583.64	2,573.05	244.106	CC
2H - OH - Plan #1	2,500.00	2,500.00	2,583.64	2,572.68	235.791	ES
2H - OH - Plan #1	22,867.23	22,525.95	3,997.36	3,671.90	12.282	SF
3H - OH - Plan #1	4,044.03	4,241.69	2,442.93	2,424.94	135.806	CC
3H - OH - Plan #1	22,867.23	22,303.90	2,681.26	2,357.51	8.282	ES, SF
41H - OH - Plan #1	3,500.00	3,495.90	4,287.57	4,272.13	277.782	CC, ES
41H - OH - Plan #1	22,867.23	17,868.95	5,705.78	5,454.01	22.663	SF
4H - OH - Plan #1	10,359.67	10,515.03	1,271.21	1,223.56	26.679	CC
4H - OH - Plan #1	22,867.23	22,316.87	1,342.48	1,022.91	4.201	ES, SF
5H - OH - Plan #1	3,890.59	3,978.31	1,642.06	1,624.78	94.995	CC
5H - OH - Plan #1	3,900.00	3,987.72	1,642.07	1,624.74	94.775	ES
5H - OH - Plan #1	22,867.23	22,727.79	1,983.02	1,657.87	6.099	SF
6H - OH - Plan #1	3,500.00	3,499.90	29.99	14.54	1.941	CC, ES
6H - OH - Plan #1	3,600.00	3,600.05	30.48	14.59	1.918	SF
71H - OH - OH	3,787.80	3,939.89	3,892.53	3,876.06	236.377	CC
71H - OH - OH	3,800.00	3,951.40	3,892.54	3,876.03	235.663	ES
71H - OH - OH	22,867.23	22,193.98	4,544.89	4,236.41	14.733	SF
7H - OH - Plan #1	4,085.15	4,300.88	2,513.06	2,494.72	137.069	CC
7H - OH - Plan #1	22,867.23	22,822.61	2,668.52	2,342.33	8.181	ES, SF
84H - OH - Plan #1	2,416.53	2,416.93	29.99	19.41	2.834	CC
84H - OH - Plan #1	2,500.00	2,500.40	29.99	19.03	2.737	ES
84H - OH - Plan #1	22,867.23	22,473.03	230.40	77.24	1.504	SF
86H - OH - Plan #1	5,746.38	5,740.02	56.01	30.73	2.215	CC
86H - OH - Plan #1	5,900.00	5,893.44	56.55	30.43	2.165	ES
86H - OH - Plan #1	6,000.00	5,993.31	57.47	30.78	2.153	SF
8H - OH - Plan #1	10,622.17	10,777.20	1,266.22	1,216.87	25.658	CC
8H - OH - Plan #1	22,867.23	22,835.93	1,319.87	994.25	4.053	ES, SF
Fighting Okra Fed Com 1H (offset) - OH - OH	3,748.23	3,927.87	4,369.49	4,359.96	458.268	CC
Fighting Okra Fed Com 1H (offset) - OH - OH	9,412.34	12,053.89	4,431.96	4,348.50	53.103	ES
Fighting Okra Fed Com 1H (offset) - OH - OH	10,400.00	12,140.31	4,540.11	4,451.45	51.208	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
Project: Lea County, NM (NAD-83)
Reference Site: Fighting Okra 18-19 Fed
Site Error: 0.00 usft
Reference Well: 85H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Plan #1

Local Co-ordinate Reference: Well 85H
TVD Reference: 3369.1' GE + 25' KB @ 3394.10usft
MD Reference: 3369.1' GE + 25' KB @ 3394.10usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM 5000.1 Multi User Db
Offset TVD Reference: Offset Datum

Offset Design													Fighting Okra 18-19 Fed - 14H - OH - Plan #1		Offset Site Error: 0.00 usft	
Survey Program: 0-LEAM MWD+HDGM													Offset Well Error: 0.00 usft			
Reference		Offset		Semi Major Axis			Distance						Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore +N/-S (usft)	Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning			
0.00	0.00	2.10	2.10	0.00	0.00	-86.06	175.33	-2,547.70	2,553.73							
100.00	100.00	102.10	102.10	0.08	0.09	-86.06	175.33	-2,547.70	2,553.73	2,553.55	0.17	N/A				
200.00	200.00	202.10	202.10	0.31	0.31	-86.06	175.33	-2,547.70	2,553.73	2,553.10	0.62	4,100.218				
300.00	300.00	302.10	302.10	0.53	0.54	-86.06	175.33	-2,547.70	2,553.73	2,552.65	1.07	2,381.410				
400.00	400.00	402.10	402.10	0.76	0.76	-86.06	175.33	-2,547.70	2,553.73	2,552.20	1.52	1,677.995				
500.00	500.00	502.10	502.10	0.98	0.99	-86.06	175.33	-2,547.70	2,553.73	2,551.75	1.97	1,295.372				
600.00	600.00	602.10	602.10	1.21	1.21	-86.06	175.33	-2,547.70	2,553.73	2,551.30	2.42	1,054.842				
700.00	700.00	702.10	702.10	1.43	1.44	-86.06	175.33	-2,547.70	2,553.73	2,550.86	2.87	889.649				
800.00	800.00	802.10	802.10	1.66	1.66	-86.06	175.33	-2,547.70	2,553.73	2,550.41	3.32	769.190				
900.00	900.00	902.10	902.10	1.88	1.89	-86.06	175.33	-2,547.70	2,553.73	2,549.96	3.77	677.461				
1,000.00	1,000.00	1,002.10	1,002.10	2.11	2.11	-86.06	175.33	-2,547.70	2,553.73	2,549.51	4.22	605.280				
1,100.00	1,100.00	1,102.10	1,102.10	2.33	2.34	-86.06	175.33	-2,547.70	2,553.73	2,549.06	4.67	546.999				
1,200.00	1,200.00	1,202.10	1,202.10	2.56	2.56	-86.06	175.33	-2,547.70	2,553.73	2,548.61	5.12	498.955				
1,300.00	1,300.00	1,302.10	1,302.10	2.78	2.79	-86.06	175.33	-2,547.70	2,553.73	2,548.16	5.57	458.670				
1,400.00	1,400.00	1,402.10	1,402.10	3.01	3.01	-86.06	175.33	-2,547.70	2,553.73	2,547.71	6.02	424.404				
1,500.00	1,500.00	1,502.10	1,502.10	3.23	3.24	-86.06	175.33	-2,547.70	2,553.73	2,547.26	6.47	394.901				
1,600.00	1,600.00	1,602.10	1,602.10	3.46	3.46	-86.06	175.33	-2,547.70	2,553.73	2,546.81	6.92	369.234				
1,700.00	1,700.00	1,702.10	1,702.10	3.68	3.69	-86.06	175.33	-2,547.70	2,553.73	2,546.36	7.37	346.700				
1,800.00	1,800.00	1,802.10	1,802.10	3.91	3.91	-86.06	175.33	-2,547.70	2,553.73	2,545.91	7.82	326.758				
1,900.00	1,900.00	1,902.10	1,902.10	4.13	4.13	-86.06	175.33	-2,547.70	2,553.73	2,545.46	8.26	308.986				
2,000.00	2,000.00	2,002.10	2,002.10	4.35	4.36	-86.06	175.33	-2,547.70	2,553.73	2,545.01	8.71	293.047				
2,100.00	2,100.00	2,102.10	2,102.10	4.58	4.58	-86.06	175.33	-2,547.70	2,553.73	2,544.56	9.16	278.671				
2,200.00	2,200.00	2,202.10	2,202.10	4.80	4.81	-86.06	175.33	-2,547.70	2,553.73	2,544.11	9.61	265.640				
2,300.00	2,300.00	2,302.10	2,302.10	5.03	5.03	-86.06	175.33	-2,547.70	2,553.73	2,543.66	10.06	253.774				
2,400.00	2,400.00	2,402.10	2,402.10	5.25	5.26	-86.06	175.33	-2,547.70	2,553.73	2,543.21	10.51	242.922				
2,500.00	2,500.00	2,502.10	2,502.10	5.48	5.48	-86.06	175.33	-2,547.70	2,553.73	2,542.76	10.96	232.960				
2,600.00	2,600.00	2,602.10	2,602.10	5.70	5.71	-86.06	175.33	-2,547.70	2,553.73	2,542.31	11.41	223.783				
2,700.00	2,700.00	2,702.10	2,702.10	5.93	5.93	-86.06	175.33	-2,547.70	2,553.73	2,541.86	11.86	215.302				
2,800.00	2,800.00	2,802.10	2,802.10	6.15	6.16	-86.06	175.33	-2,547.70	2,553.73	2,541.42	12.31	207.440				
2,900.00	2,900.00	2,902.10	2,902.10	6.38	6.38	-86.06	175.33	-2,547.70	2,553.73	2,540.97	12.76	200.132				
3,000.00	3,000.00	3,002.10	3,002.10	6.60	6.61	-86.06	175.33	-2,547.70	2,553.73	2,540.52	13.21	193.322				
3,100.00	3,100.00	3,102.10	3,102.10	6.83	6.83	-86.06	175.33	-2,547.70	2,553.73	2,540.07	13.66	186.959				
3,200.00	3,200.00	3,202.10	3,202.10	7.05	7.06	-86.06	175.33	-2,547.70	2,553.73	2,539.62	14.11	181.002				
3,300.00	3,300.00	3,302.10	3,302.10	7.28	7.28	-86.06	175.33	-2,547.70	2,553.73	2,539.17	14.56	175.413				
3,400.00	3,400.00	3,402.10	3,402.10	7.50	7.51	-86.06	175.33	-2,547.70	2,553.73	2,538.72	15.01	170.159				
3,500.00	3,500.00	3,502.10	3,502.10	7.73	7.73	-86.06	175.33	-2,547.70	2,553.73	2,538.27	15.46	165.211 CC, ES				
3,600.00	3,600.00	3,602.10	3,602.10	7.94	7.96	-145.98	175.33	-2,547.70	2,554.45	2,538.55	15.90	160.662				
3,700.00	3,699.96	3,702.06	3,702.06	8.16	8.18	-146.00	175.33	-2,547.70	2,556.62	2,540.28	16.33	156.514				
3,800.00	3,799.86	3,801.96	3,801.96	8.37	8.41	-146.04	175.33	-2,547.70	2,560.24	2,543.47	16.77	152.664				
3,900.00	3,899.68	3,901.78	3,901.78	8.58	8.63	-146.08	175.33	-2,547.70	2,565.31	2,548.10	17.21	149.088				
4,000.00	3,999.37	4,001.47	4,001.47	8.80	8.85	-146.14	175.33	-2,547.70	2,571.82	2,554.18	17.64	145.766				
4,100.00	4,098.90	4,101.00	4,101.00	9.02	9.08	-146.22	175.33	-2,547.70	2,579.80	2,561.72	18.08	142.678				
4,172.70	4,171.16	4,173.26	4,173.26	9.19	9.24	-146.28	175.33	-2,547.70	2,586.51	2,568.11	18.40	140.569				
4,200.00	4,198.27	4,200.37	4,200.37	9.25	9.30	-146.32	175.33	-2,547.70	2,589.18	2,570.66	18.52	139.801				
4,300.00	4,297.58	4,299.68	4,299.68	9.48	9.52	-146.46	175.33	-2,547.70	2,598.95	2,579.99	18.96	137.073				
4,400.00	4,396.89	4,398.99	4,398.99	9.71	9.75	-146.60	175.33	-2,547.70	2,608.75	2,589.34	19.40	134.458				
4,500.00	4,496.20	4,498.30	4,498.30	9.95	9.97	-146.74	175.33	-2,547.70	2,618.55	2,598.71	19.85	131.949				
4,600.00	4,595.51	4,597.61	4,597.61	10.19	10.19	-146.88	175.33	-2,547.70	2,628.38	2,608.09	20.29	129.541				
4,700.00	4,694.83	4,696.93	4,696.93	10.43	10.42	-147.02	175.33	-2,547.70	2,638.22	2,617.48	20.74	127.228				
4,800.00	4,794.14	4,796.24	4,796.24	10.67	10.64	-147.16	175.33	-2,547.70	2,648.07	2,626.89	21.18	125.006				
4,900.00	4,893.45	4,895.55	4,895.55	10.92	10.86	-147.30	175.33	-2,547.70	2,657.94	2,636.31	21.63	122.870				
5,000.00	4,992.76	4,994.86	4,994.86	11.17	11.09	-147.43	175.33	-2,547.70	2,667.82	2,645.74	22.08	120.815				

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

LEAM Drilling Systems LLC

Anticollision Report

Company: Devon Energy
 Project: Lea County, NM (NAD-83)
 Reference Site: Fighting Okra 18-19 Fed
 Site Error: 0.00 usft
 Reference Well: 85H
 Well Error: 0.00 usft
 Reference Wellbore: OH
 Reference Design: Plan #1

Local Co-ordinate Reference: Well 85H
 TVD Reference: 3369.1' GE + 25' KB @ 3394.10usft
 MD Reference: 3369.1' GE + 25' KB @ 3394.10usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Output errors are at: 2.00 sigma
 Database: EDM 5000.1 Multi User Db
 Offset TVD Reference: Offset Datum

Offset Design Fighting Okra 18-19 Fed - 14H - OH - Plan #1												Offset Site Error:	0.00 usft
Survey Program: 0-LEAM MWD+HDGM												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,100.00	5,092.07	5,094.17	5,094.17	11.42	11.31	-147.57	175.33	-2,547.70	2,677.72	2,655.19	22.53	118.837	
5,200.00	5,191.38	5,193.48	5,193.48	11.67	11.53	-147.70	175.33	-2,547.70	2,687.64	2,664.65	22.98	116.933	
5,300.00	5,290.69	5,292.79	5,292.79	11.93	11.76	-147.83	175.33	-2,547.70	2,697.56	2,674.13	23.44	115.099	
5,400.00	5,390.01	5,392.11	5,392.11	12.18	11.98	-147.97	175.33	-2,547.70	2,707.51	2,683.62	23.89	113.331	
5,500.00	5,489.32	5,491.42	5,491.42	12.44	12.20	-148.10	175.33	-2,547.70	2,717.46	2,693.12	24.34	111.625	
5,600.00	5,588.63	5,590.73	5,590.73	12.70	12.43	-148.23	175.33	-2,547.70	2,727.43	2,702.63	24.80	109.980	
5,700.00	5,687.94	5,690.04	5,690.04	12.96	12.65	-148.35	175.33	-2,547.70	2,737.42	2,712.16	25.25	108.392	
5,800.00	5,787.25	5,789.35	5,789.35	13.22	12.87	-148.48	175.33	-2,547.70	2,747.42	2,721.71	25.71	106.858	
5,900.00	5,886.56	5,888.66	5,888.66	13.48	13.10	-148.61	175.33	-2,547.70	2,757.43	2,731.26	26.17	105.375	
6,000.00	5,985.88	5,987.98	5,987.98	13.75	13.32	-148.74	175.33	-2,547.70	2,767.45	2,740.83	26.62	103.942	
6,100.00	6,085.19	6,087.29	6,087.29	14.01	13.54	-148.86	175.33	-2,547.70	2,777.49	2,750.41	27.08	102.556	
6,200.00	6,184.50	6,186.60	6,186.60	14.28	13.76	-148.99	175.33	-2,547.70	2,787.54	2,760.00	27.54	101.214	
6,300.00	6,283.81	6,285.91	6,285.91	14.55	13.99	-149.11	175.33	-2,547.70	2,797.61	2,769.61	28.00	99.916	
6,400.00	6,383.12	6,385.22	6,385.22	14.81	14.21	-149.23	175.33	-2,547.70	2,807.68	2,779.22	28.46	98.658	
6,500.00	6,482.43	6,484.53	6,484.53	15.08	14.43	-149.35	175.33	-2,547.70	2,817.77	2,788.85	28.92	97.440	
6,600.00	6,581.75	6,583.85	6,583.85	15.35	14.66	-149.47	175.33	-2,547.70	2,827.87	2,798.50	29.38	96.259	
6,700.00	6,681.06	6,683.16	6,683.16	15.62	14.88	-149.59	175.33	-2,547.70	2,837.99	2,808.15	29.84	95.113	
6,800.00	6,780.37	6,782.47	6,782.47	15.90	15.10	-149.71	175.33	-2,547.70	2,848.11	2,817.82	30.30	94.002	
6,900.00	6,879.68	6,881.78	6,881.78	16.17	15.33	-149.83	175.33	-2,547.70	2,858.25	2,827.49	30.76	92.924	
7,000.00	6,978.99	6,981.09	6,981.09	16.44	15.55	-149.95	175.33	-2,547.70	2,868.40	2,837.18	31.22	91.877	
7,100.00	7,078.30	7,080.40	7,080.40	16.71	15.77	-150.06	175.33	-2,547.70	2,878.57	2,846.89	31.68	90.860	
7,200.00	7,177.61	7,179.71	7,179.71	16.99	16.00	-150.18	175.33	-2,547.70	2,888.74	2,856.60	32.14	89.872	
7,300.00	7,276.93	7,279.03	7,279.03	17.26	16.22	-150.30	175.33	-2,547.70	2,898.93	2,866.32	32.60	88.912	
7,400.00	7,376.24	7,378.34	7,378.34	17.54	16.44	-150.41	175.33	-2,547.70	2,909.12	2,876.06	33.07	87.978	
7,500.00	7,475.55	7,477.65	7,477.65	17.81	16.67	-150.52	175.33	-2,547.70	2,919.33	2,885.80	33.53	87.070	
7,600.00	7,574.86	7,576.96	7,576.96	18.09	16.89	-150.64	175.33	-2,547.70	2,929.55	2,895.56	33.99	86.187	
7,700.00	7,674.17	7,676.27	7,676.27	18.37	17.11	-150.75	175.33	-2,547.70	2,939.78	2,905.33	34.45	85.327	
7,800.00	7,773.48	7,775.58	7,775.58	18.64	17.34	-150.86	175.33	-2,547.70	2,950.03	2,915.11	34.92	84.489	
7,900.00	7,872.80	7,874.90	7,874.90	18.92	17.56	-150.97	175.33	-2,547.70	2,960.28	2,924.90	35.38	83.674	
8,000.00	7,972.11	7,974.21	7,974.21	19.20	17.78	-151.08	175.33	-2,547.70	2,970.54	2,934.70	35.84	82.880	
8,100.00	8,071.42	8,073.52	8,073.52	19.48	18.01	-151.19	175.33	-2,547.70	2,980.82	2,944.51	36.30	82.106	
8,200.00	8,170.73	8,172.83	8,172.83	19.76	18.23	-151.29	175.33	-2,547.70	2,991.10	2,954.34	36.77	81.351	
8,300.00	8,270.04	8,272.14	8,272.14	20.04	18.45	-151.40	175.33	-2,547.70	3,001.40	2,964.17	37.23	80.615	
8,400.00	8,369.35	8,371.45	8,371.45	20.32	18.68	-151.51	175.33	-2,547.70	3,011.71	2,974.01	37.69	79.898	
8,500.00	8,468.66	8,470.76	8,470.76	20.60	18.90	-151.61	175.33	-2,547.70	3,022.02	2,983.86	38.16	79.198	
8,600.00	8,567.98	8,570.08	8,570.08	20.88	19.12	-151.72	175.33	-2,547.70	3,032.35	2,993.73	38.62	78.514	
8,700.00	8,667.29	8,669.39	8,669.39	21.16	19.35	-151.82	175.33	-2,547.70	3,042.69	3,003.60	39.09	77.847	
8,800.00	8,766.60	8,768.70	8,768.70	21.44	19.57	-151.93	175.33	-2,547.70	3,053.03	3,013.48	39.55	77.196	
8,900.00	8,865.91	8,868.01	8,868.01	21.72	19.79	-152.03	175.33	-2,547.70	3,063.39	3,023.38	40.01	76.560	
9,000.00	8,965.22	8,967.32	8,967.32	22.00	20.02	-152.13	175.33	-2,547.70	3,073.75	3,033.28	40.48	75.939	
9,100.00	9,064.53	9,066.63	9,066.63	22.28	20.24	-152.23	175.33	-2,547.70	3,084.13	3,043.19	40.94	75.332	
9,200.00	9,163.85	9,165.95	9,165.95	22.57	20.46	-152.33	175.33	-2,547.70	3,094.52	3,053.11	41.40	74.738	
9,300.00	9,263.16	9,265.26	9,265.26	22.85	20.68	-152.44	175.33	-2,547.70	3,104.91	3,063.04	41.87	74.158	
9,400.00	9,362.47	9,364.57	9,364.57	23.13	20.91	-152.53	175.33	-2,547.70	3,115.32	3,072.98	42.33	73.591	
9,500.00	9,461.78	9,463.88	9,463.88	23.41	21.13	-152.63	175.33	-2,547.70	3,125.73	3,082.93	42.80	73.036	
9,600.00	9,561.09	9,563.19	9,563.19	23.70	21.35	-152.73	175.33	-2,547.70	3,136.15	3,092.89	43.26	72.493	
9,700.00	9,660.40	9,662.50	9,662.50	23.98	21.58	-152.83	175.33	-2,547.70	3,146.58	3,102.86	43.73	71.961	
9,800.00	9,759.71	9,761.81	9,761.81	24.26	21.80	-152.93	175.33	-2,547.70	3,157.02	3,112.83	44.19	71.442	
9,900.00	9,859.03	9,861.13	9,861.13	24.55	22.02	-153.02	175.33	-2,547.70	3,167.47	3,122.82	44.65	70.933	
10,000.00	9,958.34	9,960.44	9,960.44	24.83	22.25	-153.12	175.33	-2,547.70	3,177.93	3,132.81	45.12	70.434	
10,100.00	10,057.65	10,059.75	10,059.75	25.11	22.47	-153.21	175.33	-2,547.70	3,188.40	3,142.81	45.58	69.946	
10,200.00	10,156.96	10,159.06	10,159.06	25.40	22.69	-153.31	175.33	-2,547.70	3,198.87	3,152.83	46.05	69.468	

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

LEAM Drilling Systems LLC

Anticollision Report

Company: Devon Energy
 Project: Lea County, NM (NAD-83)
 Reference Site: Fighting Okra 18-19 Fed
 Site Error: 0.00 usft
 Reference Well: 85H
 Well Error: 0.00 usft
 Reference Wellbore: OH
 Reference Design: Plan #1

Local Co-ordinate Reference: Well 85H
 TVD Reference: 3369.1' GE + 25' KB @ 3394.10usft
 MD Reference: 3369.1' GE + 25' KB @ 3394.10usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Output errors are at: 2.00 sigma
 Database: EDM 5000.1 Multi User Db
 Offset TVD Reference: Offset Datum

Offset Design Fighting Okra 18-19 Fed - 14H - OH - Plan #1													Offset Site Error: 0.00 usft
Survey Program: 0-LEAM MWD+HDGM													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
10,300.00	10,256.27	10,258.37	10,258.37	25.68	22.92	-153.40	175.33	-2,547.70	3,209.36	3,162.85	46.51	69.000	
10,400.00	10,355.58	10,357.68	10,357.68	25.97	23.14	-153.49	175.33	-2,547.70	3,219.85	3,172.87	46.98	68.541	
10,500.00	10,454.90	10,457.00	10,457.00	26.25	23.36	-153.59	175.33	-2,547.70	3,230.35	3,182.91	47.44	68.091	
10,600.00	10,554.21	10,556.31	10,556.31	26.54	23.59	-153.68	175.33	-2,547.70	3,240.86	3,192.96	47.91	67.650	
10,700.00	10,653.52	10,655.62	10,655.62	26.82	23.81	-153.77	175.33	-2,547.70	3,251.38	3,203.01	48.37	67.217	
10,800.00	10,752.83	10,754.93	10,754.93	27.11	24.03	-153.86	175.33	-2,547.70	3,261.91	3,213.07	48.84	66.793	
10,900.00	10,852.14	10,854.24	10,854.24	27.39	24.26	-153.95	175.33	-2,547.70	3,272.44	3,223.14	49.30	66.377	
11,000.00	10,951.45	10,953.55	10,953.55	27.68	24.48	-154.04	175.33	-2,547.70	3,282.98	3,233.22	49.77	65.969	
11,100.00	11,050.77	11,052.87	11,052.87	27.96	24.70	-154.13	175.33	-2,547.70	3,293.53	3,243.30	50.23	65.569	
11,178.62	11,128.84	11,130.94	11,130.94	28.19	24.88	-154.20	175.33	-2,547.70	3,301.83	3,251.24	50.60	65.259	
11,200.00	11,150.08	11,152.18	11,152.18	28.24	24.93	-154.23	175.33	-2,547.70	3,304.05	3,253.36	50.69	65.181	
11,300.00	11,249.53	11,251.63	11,251.63	28.46	25.15	-154.35	175.33	-2,547.70	3,313.50	3,262.39	51.11	64.834	
11,400.00	11,349.15	11,351.25	11,351.25	28.66	25.37	-154.45	175.33	-2,547.70	3,321.39	3,269.87	51.52	64.466	
11,500.00	11,448.90	11,451.00	11,451.00	28.86	25.60	-154.53	175.33	-2,547.70	3,327.71	3,275.78	51.93	64.079	
11,600.00	11,548.76	11,550.86	11,550.86	29.05	25.82	-154.59	175.33	-2,547.70	3,332.46	3,280.12	52.34	63.671	
11,700.00	11,648.70	11,650.80	11,650.80	29.22	26.05	-154.63	175.33	-2,547.70	3,335.63	3,282.89	52.74	63.245	
11,800.00	11,748.68	11,750.78	11,750.78	29.39	26.27	-154.65	175.33	-2,547.70	3,337.23	3,284.09	53.14	62.800	
11,851.32	11,800.00	11,802.10	11,802.10	29.47	26.39	-94.74	175.33	-2,547.70	3,337.43	3,284.09	53.35	62.563	
11,900.00	11,848.68	11,850.78	11,850.78	29.56	26.50	-94.74	175.33	-2,547.70	3,337.43	3,283.89	53.55	62.327	
11,908.47	11,857.15	11,859.25	11,859.25	29.57	26.52	-94.74	175.33	-2,547.70	3,337.43	3,283.85	53.58	62.284	
12,000.00	11,948.68	11,944.16	11,944.16	29.75	26.70	-94.74	175.18	-2,547.70	3,337.45	3,283.50	53.96	61.852	
12,100.00	12,048.68	12,010.13	12,009.87	29.94	26.81	-94.83	169.88	-2,547.72	3,338.16	3,283.90	54.26	61.520	
12,200.00	12,148.68	12,074.06	12,072.57	30.14	26.92	-95.04	157.57	-2,547.77	3,339.93	3,285.39	54.55	61.230	
12,300.00	12,248.68	12,134.56	12,130.30	30.33	27.02	-95.35	139.56	-2,547.84	3,342.89	3,288.08	54.82	60.981	
12,392.36	12,341.04	12,186.56	12,178.17	30.51	27.10	-95.69	119.29	-2,547.93	3,346.82	3,291.77	55.05	60.792	
12,400.00	12,348.68	12,200.00	12,190.23	30.52	27.12	84.17	113.35	-2,547.95	3,347.22	3,292.13	55.09	60.761	
12,450.00	12,398.58	12,217.69	12,205.88	30.59	27.15	83.81	105.11	-2,547.98	3,349.62	3,294.45	55.17	60.714	
12,500.00	12,448.05	12,250.00	12,233.78	30.65	27.20	83.38	88.82	-2,548.05	3,351.95	3,296.69	55.27	60.651	
12,550.00	12,496.70	12,271.45	12,251.78	30.70	27.23	83.04	77.15	-2,548.09	3,354.14	3,298.81	55.33	60.620	
12,600.00	12,544.16	12,300.00	12,275.02	30.73	27.27	82.70	60.58	-2,548.16	3,356.17	3,300.77	55.40	60.584	
12,650.00	12,590.08	12,324.99	12,294.68	30.75	27.31	82.41	45.15	-2,548.22	3,358.00	3,302.56	55.45	60.560	
12,700.00	12,634.11	12,350.00	12,313.65	30.76	27.35	82.15	28.86	-2,548.29	3,359.62	3,304.13	55.49	60.541	
12,750.00	12,675.90	12,378.38	12,334.30	30.75	27.41	81.93	9.39	-2,548.37	3,361.00	3,305.45	55.54	60.511	
12,800.00	12,715.15	12,400.00	12,349.37	30.74	27.45	81.77	-6.11	-2,548.43	3,362.12	3,306.55	55.57	60.498	
12,850.00	12,751.55	12,431.66	12,370.35	30.73	27.52	81.64	-29.81	-2,548.52	3,362.95	3,307.32	55.63	60.448	
12,900.00	12,784.82	12,450.00	12,381.90	30.70	27.56	81.56	-44.06	-2,548.58	3,363.53	3,307.87	55.66	60.428	
12,950.00	12,814.72	12,484.90	12,402.59	30.68	27.65	81.52	-72.16	-2,548.69	3,363.77	3,308.03	55.75	60.340	
13,000.00	12,841.01	12,500.00	12,411.00	30.65	27.69	81.53	-84.70	-2,548.74	3,363.78	3,307.99	55.78	60.302	
13,050.00	12,863.50	12,538.15	12,430.75	30.62	27.79	81.60	-117.32	-2,548.87	3,363.41	3,307.51	55.91	60.163	
13,100.00	12,882.01	12,564.79	12,443.24	30.60	27.87	81.71	-140.85	-2,548.97	3,362.80	3,306.79	56.01	60.041	
13,150.00	12,896.40	12,600.00	12,458.04	30.59	27.98	81.89	-172.80	-2,549.10	3,361.93	3,305.76	56.16	59.863	
13,200.00	12,906.57	12,618.13	12,464.89	30.59	28.04	82.07	-189.58	-2,549.16	3,360.75	3,304.47	56.27	59.722	
13,250.00	12,912.43	12,650.00	12,475.63	30.61	28.15	82.33	-219.58	-2,549.29	3,359.35	3,302.90	56.46	59.504	
13,292.36	12,914.00	12,667.52	12,480.82	30.63	28.22	82.55	-236.31	-2,549.35	3,357.98	3,301.39	56.59	59.337	
13,300.00	12,914.00	12,671.62	12,481.96	30.64	28.23	82.57	-240.25	-2,549.37	3,357.72	3,301.10	56.62	59.301	
13,400.00	12,914.00	12,726.71	12,494.52	30.78	28.45	82.78	-293.87	-2,549.58	3,355.12	3,298.06	57.07	58.794	
13,500.00	12,914.00	12,787.02	12,502.31	31.01	28.71	82.91	-353.65	-2,549.80	3,353.84	3,296.21	57.62	58.201	
13,568.41	12,914.00	12,831.42	12,504.00	31.23	28.92	82.94	-398.00	-2,549.85	3,353.60	3,295.51	58.08	57.737	
13,600.00	12,914.00	12,863.01	12,504.00	31.35	29.08	82.94	-429.60	-2,549.85	3,353.60	3,295.23	58.37	57.459	
13,700.00	12,914.00	12,963.01	12,504.00	31.78	29.63	82.94	-529.60	-2,549.85	3,353.60	3,294.21	59.38	56.476	
13,800.00	12,914.00	13,063.01	12,504.00	32.29	30.26	82.94	-629.60	-2,549.85	3,353.60	3,293.05	60.55	55.386	
13,900.00	12,914.00	13,163.01	12,504.00	32.89	30.96	82.94	-729.60	-2,549.85	3,353.60	3,291.73	61.87	54.206	

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

LEAM Drilling Systems LLC

Anticollision Report

Company: Devon Energy
Project: Lea County, NM (NAD-83)
Reference Site: Fighting Okra 18-19 Fed
Site Error: 0.00 usft
Reference Well: 85H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Plan #1

Local Co-ordinate Reference: Well 85H
TVD Reference: 3369.1' GE + 25' KB @ 3394.10usft
MD Reference: 3369.1' GE + 25' KB @ 3394.10usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDM 5000.1 Multi User Db
Offset TVD Reference: Offset Datum

Offset Design Fighting Okra 18-19 Fed - 14H - OH - Plan #1												Offset Site Error:	0.00 usft
Survey Program: Q-LEAM MWD+HDGM												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N-S (usft)	+E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
14,000.00	12,914.00	13,263.01	12,504.00	33.57	31.73	82.94	-829.60	-2,549.85	3,353.60	3,290.27	63.32	52.959	
14,100.00	12,914.00	13,363.01	12,504.00	34.31	32.56	82.94	-929.60	-2,549.85	3,353.60	3,288.69	64.91	51.665	
14,200.00	12,914.00	13,463.01	12,504.00	35.11	33.46	82.94	-1,029.60	-2,549.85	3,353.60	3,286.98	66.62	50.341	
14,300.00	12,914.00	13,563.01	12,504.00	35.97	34.40	82.94	-1,129.60	-2,549.85	3,353.60	3,285.16	68.44	49.003	
14,400.00	12,914.00	13,663.01	12,504.00	36.89	35.40	82.94	-1,229.60	-2,549.85	3,353.60	3,283.24	70.36	47.664	
14,500.00	12,914.00	13,763.01	12,504.00	37.85	36.44	82.94	-1,329.60	-2,549.85	3,353.60	3,281.22	72.38	46.336	
14,600.00	12,914.00	13,863.01	12,504.00	38.86	37.53	82.94	-1,429.60	-2,549.85	3,353.60	3,279.12	74.48	45.027	
14,700.00	12,914.00	13,963.01	12,504.00	39.91	38.65	82.94	-1,529.60	-2,549.85	3,353.60	3,276.93	76.66	43.745	
14,800.00	12,914.00	14,063.01	12,504.00	41.00	39.81	82.94	-1,629.60	-2,549.85	3,353.60	3,274.68	78.92	42.493	
14,900.00	12,914.00	14,163.01	12,504.00	42.12	41.00	82.94	-1,729.60	-2,549.85	3,353.60	3,272.35	81.24	41.278	
15,000.00	12,914.00	14,263.01	12,504.00	43.28	42.23	82.94	-1,829.60	-2,549.85	3,353.60	3,269.96	83.63	40.100	
15,100.00	12,914.00	14,363.01	12,504.00	44.46	43.47	82.94	-1,929.60	-2,549.85	3,353.60	3,267.52	86.07	38.962	
15,200.00	12,914.00	14,463.01	12,504.00	45.68	44.75	82.94	-2,029.60	-2,549.85	3,353.60	3,265.03	88.57	37.865	
15,300.00	12,914.00	14,563.01	12,504.00	46.92	46.04	82.94	-2,129.60	-2,549.85	3,353.60	3,262.49	91.11	36.808	
15,400.00	12,914.00	14,663.01	12,504.00	48.18	47.36	82.94	-2,229.60	-2,549.85	3,353.60	3,259.90	93.70	35.792	
15,500.00	12,914.00	14,763.01	12,504.00	49.46	48.70	82.94	-2,329.60	-2,549.85	3,353.60	3,257.27	96.32	34.817	
15,600.00	12,914.00	14,863.01	12,504.00	50.77	50.05	82.94	-2,429.60	-2,549.85	3,353.60	3,254.61	98.98	33.880	
15,700.00	12,914.00	14,963.01	12,504.00	52.09	51.42	82.94	-2,529.60	-2,549.85	3,353.60	3,251.91	101.68	32.981	
15,800.00	12,914.00	15,063.01	12,504.00	53.43	52.81	82.94	-2,629.60	-2,549.85	3,353.60	3,249.19	104.41	32.120	
15,900.00	12,914.00	15,163.01	12,504.00	54.78	54.21	82.94	-2,729.60	-2,549.85	3,353.60	3,246.43	107.17	31.293	
16,000.00	12,914.00	15,263.01	12,504.00	56.15	55.62	82.94	-2,829.60	-2,549.85	3,353.60	3,243.64	109.95	30.501	
16,100.00	12,914.00	15,363.01	12,504.00	57.54	57.04	82.94	-2,929.60	-2,549.85	3,353.60	3,240.84	112.76	29.741	
16,200.00	12,914.00	15,463.01	12,504.00	58.94	58.48	82.94	-3,029.60	-2,549.85	3,353.60	3,238.00	115.59	29.012	
16,300.00	12,914.00	15,563.01	12,504.00	60.34	59.92	82.94	-3,129.60	-2,549.85	3,353.60	3,235.15	118.45	28.313	
16,400.00	12,914.00	15,663.01	12,504.00	61.76	61.38	82.94	-3,229.60	-2,549.85	3,353.60	3,232.28	121.32	27.643	
16,500.00	12,914.00	15,763.01	12,504.00	63.19	62.84	82.94	-3,329.60	-2,549.85	3,353.60	3,229.38	124.21	26.999	
16,600.00	12,914.00	15,863.01	12,504.00	64.63	64.31	82.94	-3,429.60	-2,549.85	3,353.60	3,226.47	127.12	26.381	
16,700.00	12,914.00	15,963.01	12,504.00	66.08	65.79	82.94	-3,529.60	-2,549.85	3,353.60	3,223.55	130.05	25.788	
16,800.00	12,914.00	16,063.01	12,504.00	67.54	67.28	82.94	-3,629.60	-2,549.85	3,353.60	3,220.61	132.99	25.217	
16,900.00	12,914.00	16,163.01	12,504.00	69.01	68.77	82.94	-3,729.60	-2,549.85	3,353.60	3,217.65	135.94	24.669	
17,000.00	12,914.00	16,263.01	12,504.00	70.48	70.27	82.94	-3,829.60	-2,549.85	3,353.60	3,214.69	138.91	24.142	
17,100.00	12,914.00	16,363.01	12,504.00	71.96	71.78	82.94	-3,929.60	-2,549.85	3,353.60	3,211.71	141.89	23.635	
17,200.00	12,914.00	16,463.01	12,504.00	73.44	73.29	82.94	-4,029.60	-2,549.85	3,353.60	3,208.72	144.88	23.147	
17,300.00	12,914.00	16,563.01	12,504.00	74.94	74.81	82.94	-4,129.60	-2,549.85	3,353.60	3,205.71	147.88	22.677	
17,400.00	12,914.00	16,663.01	12,504.00	76.43	76.33	82.94	-4,229.60	-2,549.85	3,353.60	3,202.70	150.89	22.225	
17,500.00	12,914.00	16,763.01	12,504.00	77.94	77.85	82.94	-4,329.60	-2,549.85	3,353.60	3,199.68	153.92	21.788	
17,600.00	12,914.00	16,863.01	12,504.00	79.45	79.38	82.94	-4,429.60	-2,549.85	3,353.60	3,196.65	156.95	21.368	
17,700.00	12,914.00	16,963.01	12,504.00	80.96	80.92	82.94	-4,529.60	-2,549.85	3,353.60	3,193.61	159.99	20.962	
17,800.00	12,914.00	17,063.01	12,504.00	82.48	82.46	82.94	-4,629.60	-2,549.85	3,353.60	3,190.56	163.04	20.570	
17,900.00	12,914.00	17,163.01	12,504.00	84.00	84.00	82.94	-4,729.60	-2,549.85	3,353.60	3,187.50	166.09	20.191	
18,000.00	12,914.00	17,263.01	12,504.00	85.53	85.54	82.94	-4,829.60	-2,549.85	3,353.60	3,184.44	169.15	19.826	
18,100.00	12,914.00	17,363.01	12,504.00	87.06	87.09	82.94	-4,929.60	-2,549.85	3,353.60	3,181.37	172.22	19.472	
18,200.00	12,914.00	17,463.01	12,504.00	88.59	88.64	82.94	-5,029.60	-2,549.85	3,353.60	3,178.30	175.30	19.131	
18,300.00	12,914.00	17,563.01	12,504.00	90.13	90.20	82.94	-5,129.60	-2,549.85	3,353.60	3,175.21	178.38	18.800	
18,400.00	12,914.00	17,663.01	12,504.00	91.67	91.75	82.94	-5,229.60	-2,549.85	3,353.60	3,172.13	181.47	18.480	
18,500.00	12,914.00	17,763.01	12,504.00	93.21	93.31	82.94	-5,329.60	-2,549.85	3,353.60	3,169.03	184.56	18.171	
18,600.00	12,914.00	17,863.01	12,504.00	94.76	94.88	82.94	-5,429.60	-2,549.85	3,353.60	3,165.93	187.66	17.870	
18,700.00	12,914.00	17,963.01	12,504.00	96.31	96.44	82.94	-5,529.60	-2,549.85	3,353.60	3,162.83	190.76	17.580	
18,800.00	12,914.00	18,063.01	12,504.00	97.86	98.01	82.94	-5,629.60	-2,549.85	3,353.60	3,159.72	193.87	17.298	
18,900.00	12,914.00	18,163.01	12,504.00	99.42	99.58	82.94	-5,729.60	-2,549.85	3,353.60	3,156.61	196.99	17.025	
19,000.00	12,914.00	18,263.01	12,504.00	100.98	101.15	82.94	-5,829.60	-2,549.85	3,353.60	3,153.49	200.10	16.759	
19,100.00	12,914.00	18,363.01	12,504.00	102.54	102.72	82.94	-5,929.60	-2,549.85	3,353.60	3,150.37	203.22	16.502	

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

LEAM Drilling Systems LLC

Anticollision Report

Company: Devon Energy
 Project: Lea County, NM (NAD-83)
 Reference Site: Fighting Okra 18-19 Fed
 Site Error: 0.00 usft
 Reference Well: 85H
 Well Error: 0.00 usft
 Reference Wellbore: OH
 Reference Design: Plan #1

Local Co-ordinate Reference: Well 85H
 TVD Reference: 3369.1' GE + 25' KB @ 3394.10usft
 MD Reference: 3369.1' GE + 25' KB @ 3394.10usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Output errors are at: 2.00 sigma
 Database: EDM 5000.1 Multi User Db
 Offset TVD Reference: Offset Datum

Offset Design Fighting Okra 18-19 Fed - 14H - OH - Plan #1													Offset Site Error: 0.00 usft
Survey Program: 0-LEAM MWD+HDGM													Offset Well Error: 0.00 usft
Reference	Offset	Semi Major Axis		Distance		Warning							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N-S (usft)	+E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,200.00	12,914.00	18,463.01	12,504.00	104.10	104.30	82.94	-6,029.60	-2,549.85	3,353.60	3,147.25	206.35	16.252	
19,300.00	12,914.00	18,563.01	12,504.00	105.67	105.87	82.94	-6,129.60	-2,549.85	3,353.60	3,144.12	209.48	16.009	
19,400.00	12,914.00	18,663.01	12,504.00	107.23	107.45	82.94	-6,229.60	-2,549.85	3,353.60	3,140.98	212.61	15.773	
19,500.00	12,914.00	18,763.01	12,504.00	108.80	109.03	82.94	-6,329.60	-2,549.85	3,353.60	3,137.85	215.75	15.544	
19,600.00	12,914.00	18,863.01	12,504.00	110.37	110.61	82.94	-6,429.60	-2,549.85	3,353.60	3,134.71	218.89	15.321	
19,700.00	12,914.00	18,963.01	12,504.00	111.94	112.20	82.94	-6,529.60	-2,549.85	3,353.60	3,131.57	222.03	15.104	
19,800.00	12,914.00	19,063.01	12,504.00	113.52	113.78	82.94	-6,629.60	-2,549.85	3,353.60	3,128.42	225.18	14.893	
19,900.00	12,914.00	19,163.01	12,504.00	115.09	115.37	82.94	-6,729.60	-2,549.85	3,353.60	3,125.27	228.32	14.688	
20,000.00	12,914.00	19,263.01	12,504.00	116.67	116.95	82.94	-6,829.60	-2,549.85	3,353.60	3,122.12	231.48	14.488	
20,100.00	12,914.00	19,363.01	12,504.00	118.25	118.54	82.94	-6,929.60	-2,549.85	3,353.60	3,118.97	234.63	14.293	
20,200.00	12,914.00	19,463.01	12,504.00	119.83	120.13	82.94	-7,029.60	-2,549.85	3,353.60	3,115.81	237.79	14.103	
20,300.00	12,914.00	19,563.01	12,504.00	121.41	121.72	82.94	-7,129.60	-2,549.85	3,353.60	3,112.65	240.94	13.919	
20,400.00	12,914.00	19,663.01	12,504.00	123.00	123.32	82.94	-7,229.60	-2,549.85	3,353.60	3,109.49	244.11	13.738	
20,500.00	12,914.00	19,763.01	12,504.00	124.58	124.91	82.94	-7,329.60	-2,549.85	3,353.60	3,106.33	247.27	13.563	
20,600.00	12,914.00	19,863.01	12,504.00	126.17	126.50	82.94	-7,429.60	-2,549.85	3,353.60	3,103.16	250.43	13.391	
20,700.00	12,914.00	19,963.01	12,504.00	127.75	128.10	82.94	-7,529.60	-2,549.85	3,353.60	3,099.99	253.60	13.224	
20,800.00	12,914.00	20,063.01	12,504.00	129.34	129.70	82.94	-7,629.60	-2,549.85	3,353.60	3,096.82	256.77	13.061	
20,900.00	12,914.00	20,163.01	12,504.00	130.93	131.29	82.94	-7,729.60	-2,549.85	3,353.60	3,093.65	259.94	12.901	
21,000.00	12,914.00	20,263.01	12,504.00	132.52	132.89	82.94	-7,829.60	-2,549.85	3,353.60	3,090.48	263.12	12.746	
21,100.00	12,914.00	20,363.01	12,504.00	134.11	134.49	82.94	-7,929.60	-2,549.85	3,353.60	3,087.30	266.29	12.594	
21,200.00	12,914.00	20,463.01	12,504.00	135.71	136.09	82.94	-8,029.60	-2,549.85	3,353.60	3,084.13	269.47	12.445	
21,300.00	12,914.00	20,563.01	12,504.00	137.30	137.69	82.94	-8,129.60	-2,549.85	3,353.60	3,080.95	272.65	12.300	
21,400.00	12,914.00	20,663.01	12,504.00	138.90	139.29	82.94	-8,229.60	-2,549.85	3,353.60	3,077.77	275.83	12.158	
21,500.00	12,914.00	20,763.01	12,504.00	140.49	140.89	82.94	-8,329.60	-2,549.85	3,353.60	3,074.58	279.01	12.020	
21,600.00	12,914.00	20,863.01	12,504.00	142.09	142.50	82.94	-8,429.60	-2,549.85	3,353.60	3,071.40	282.20	11.884	
21,700.00	12,914.00	20,963.01	12,504.00	143.68	144.10	82.94	-8,529.60	-2,549.85	3,353.60	3,068.22	285.38	11.751	
21,800.00	12,914.00	21,063.01	12,504.00	145.28	145.71	82.94	-8,629.60	-2,549.85	3,353.60	3,065.03	288.57	11.622	
21,900.00	12,914.00	21,163.01	12,504.00	146.88	147.31	82.94	-8,729.60	-2,549.85	3,353.60	3,061.84	291.76	11.495	
22,000.00	12,914.00	21,263.01	12,504.00	148.48	148.92	82.94	-8,829.60	-2,549.85	3,353.60	3,058.65	294.94	11.370	
22,100.00	12,914.00	21,363.01	12,504.00	150.08	150.52	82.94	-8,929.60	-2,549.85	3,353.60	3,055.46	298.14	11.249	
22,200.00	12,914.00	21,463.01	12,504.00	151.68	152.13	82.94	-9,029.60	-2,549.85	3,353.60	3,052.27	301.33	11.129	
22,300.00	12,914.00	21,563.01	12,504.00	153.28	153.74	82.94	-9,129.60	-2,549.85	3,353.60	3,049.08	304.52	11.013	
22,400.00	12,914.00	21,663.01	12,504.00	154.89	155.34	82.94	-9,229.60	-2,549.85	3,353.60	3,045.88	307.71	10.898	
22,500.00	12,914.00	21,763.01	12,504.00	156.49	156.95	82.94	-9,329.60	-2,549.85	3,353.60	3,042.69	310.91	10.786	
22,600.00	12,914.00	21,863.01	12,504.00	158.09	158.56	82.94	-9,429.60	-2,549.85	3,353.60	3,039.49	314.11	10.677	
22,700.00	12,914.00	21,963.01	12,504.00	159.70	160.17	82.94	-9,529.60	-2,549.85	3,353.60	3,036.29	317.30	10.569	
22,800.00	12,914.00	22,063.01	12,504.00	161.30	161.78	82.94	-9,629.60	-2,549.85	3,353.60	3,033.09	320.50	10.464	
22,867.23	12,914.00	22,130.25	12,504.00	162.38	162.87	82.94	-9,696.83	-2,549.85	3,353.60	3,030.94	322.65	10.394 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
Project: Lea County, NM (NAD-83)
Reference Site: Fighting Okra 18-19 Fed
Site Error: 0.00 usft
Reference Well: 85H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Plan #1

Local Co-ordinate Reference: Well 85H
TVD Reference: 3369.1' GE + 25' KB @ 3394.10usft
MD Reference: 3369.1' GE + 25' KB @ 3394.10usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM 5000.1 Multi User Db
Offset TVD Reference: Offset Datum

Offset Design Fighting Okra 18-19 Fed - 15H - OH - Plan #1												Offset Site Error:	0.00 usft
Survey Program: 0-LEAM MWD+HDGM												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance				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)	Between Centres (usft)	Between Ellipses (usft)			Minimum Separation (usft)
0.00	0.00	0.00	0.00	0.00	0.00	-85.28	137.70	-1,667.56	1,673.24				
100.00	100.00	95.80	95.80	0.08	0.08	-85.28	137.70	-1,667.56	1,673.24	1,673.07	0.17	N/A	
200.00	200.00	195.80	195.80	0.31	0.30	-85.28	137.70	-1,667.56	1,673.24	1,672.63	0.61	2,749.018	
300.00	300.00	295.80	295.80	0.53	0.52	-85.28	137.70	-1,667.56	1,673.24	1,672.18	1.06	1,581.211	
400.00	400.00	395.80	395.80	0.76	0.75	-85.28	137.70	-1,667.56	1,673.24	1,671.73	1.51	1,109.771	
500.00	500.00	495.80	495.80	0.98	0.97	-85.28	137.70	-1,667.56	1,673.24	1,671.28	1.96	854.886	
600.00	600.00	595.80	595.80	1.21	1.20	-85.28	137.70	-1,667.56	1,673.24	1,670.83	2.41	695.213	
700.00	700.00	695.80	695.80	1.43	1.42	-85.28	137.70	-1,667.56	1,673.24	1,670.38	2.86	585.800	
800.00	800.00	795.80	795.80	1.66	1.65	-85.28	137.70	-1,667.56	1,673.24	1,669.93	3.31	506.142	
900.00	900.00	895.80	895.80	1.88	1.87	-85.28	137.70	-1,667.56	1,673.24	1,669.48	3.76	445.556	
1,000.00	1,000.00	995.80	995.80	2.11	2.10	-85.28	137.70	-1,667.56	1,673.24	1,669.03	4.20	397.923	
1,100.00	1,100.00	1,095.80	1,095.80	2.33	2.32	-85.28	137.70	-1,667.56	1,673.24	1,668.58	4.65	359.491	
1,200.00	1,200.00	1,195.80	1,195.80	2.56	2.55	-85.28	137.70	-1,667.56	1,673.24	1,668.13	5.10	327.829	
1,300.00	1,300.00	1,295.80	1,295.80	2.78	2.77	-85.28	137.70	-1,667.56	1,673.24	1,667.68	5.55	301.293	
1,400.00	1,400.00	1,395.80	1,395.80	3.01	3.00	-85.28	137.70	-1,667.56	1,673.24	1,667.23	6.00	278.731	
1,500.00	1,500.00	1,495.80	1,495.80	3.23	3.22	-85.28	137.70	-1,667.56	1,673.24	1,666.78	6.45	259.313	
1,600.00	1,600.00	1,595.80	1,595.80	3.46	3.45	-85.28	137.70	-1,667.56	1,673.24	1,666.33	6.90	242.424	
1,700.00	1,700.00	1,695.80	1,695.80	3.68	3.67	-85.28	137.70	-1,667.56	1,673.24	1,665.88	7.35	227.600	
1,800.00	1,800.00	1,795.80	1,795.80	3.91	3.90	-85.28	137.70	-1,667.56	1,673.24	1,665.43	7.80	214.485	
1,900.00	1,900.00	1,895.80	1,895.80	4.13	4.12	-85.28	137.70	-1,667.56	1,673.24	1,664.99	8.25	202.799	
2,000.00	2,000.00	1,995.80	1,995.80	4.35	4.35	-85.28	137.70	-1,667.56	1,673.24	1,664.54	8.70	192.321	
2,100.00	2,100.00	2,095.80	2,095.80	4.58	4.57	-85.28	137.70	-1,667.56	1,673.24	1,664.09	9.15	182.872	
2,200.00	2,200.00	2,195.80	2,195.80	4.80	4.79	-85.28	137.70	-1,667.56	1,673.24	1,663.64	9.60	174.308	
2,300.00	2,300.00	2,295.80	2,295.80	5.03	5.02	-85.28	137.70	-1,667.56	1,673.24	1,663.19	10.05	166.510	
2,400.00	2,400.00	2,395.80	2,395.80	5.25	5.24	-85.28	137.70	-1,667.56	1,673.24	1,662.74	10.50	159.380	
2,500.00	2,500.00	2,495.80	2,495.80	5.48	5.47	-85.28	137.70	-1,667.56	1,673.24	1,662.29	10.95	152.836	
2,600.00	2,600.00	2,595.80	2,595.80	5.70	5.69	-85.28	137.70	-1,667.56	1,673.24	1,661.84	11.40	146.808	
2,700.00	2,700.00	2,695.80	2,695.80	5.93	5.92	-85.28	137.70	-1,667.56	1,673.24	1,661.39	11.85	141.237	
2,800.00	2,800.00	2,795.80	2,795.80	6.15	6.14	-85.28	137.70	-1,667.56	1,673.24	1,660.94	12.30	136.074	
2,900.00	2,900.00	2,895.80	2,895.80	6.38	6.37	-85.28	137.70	-1,667.56	1,673.24	1,660.49	12.75	131.275	
3,000.00	3,000.00	2,995.80	2,995.80	6.60	6.59	-85.28	137.70	-1,667.56	1,673.24	1,660.04	13.20	126.803	
3,100.00	3,100.00	3,095.80	3,095.80	6.83	6.82	-85.28	137.70	-1,667.56	1,673.24	1,659.59	13.65	122.625	
3,200.00	3,200.00	3,195.80	3,195.80	7.05	7.04	-85.28	137.70	-1,667.56	1,673.24	1,659.14	14.09	118.714	
3,300.00	3,300.00	3,295.80	3,295.80	7.28	7.27	-85.28	137.70	-1,667.56	1,673.24	1,658.69	14.54	115.045	
3,400.00	3,400.00	3,395.80	3,395.80	7.50	7.49	-85.28	137.70	-1,667.56	1,673.24	1,658.24	14.99	111.596	
3,500.00	3,500.00	3,495.80	3,495.80	7.73	7.72	-85.28	137.70	-1,667.56	1,673.24	1,657.79	15.44	108.348 CC, ES	
3,600.00	3,600.00	3,595.80	3,595.80	7.94	7.94	-145.20	137.70	-1,667.56	1,673.95	1,658.07	15.89	105.377	
3,700.00	3,699.96	3,695.76	3,695.76	8.16	8.17	-145.24	137.70	-1,667.56	1,676.10	1,659.78	16.32	102.699	
3,800.00	3,799.86	3,795.66	3,795.66	8.37	8.39	-145.31	137.70	-1,667.56	1,679.69	1,662.93	16.76	100.243	
3,900.00	3,899.68	3,895.48	3,895.48	8.58	8.62	-145.40	137.70	-1,667.56	1,684.71	1,667.52	17.19	97.991	
4,000.00	3,999.37	3,995.17	3,995.17	8.80	8.84	-145.51	137.70	-1,667.56	1,691.18	1,673.55	17.63	95.930	
4,100.00	4,098.90	4,130.61	4,130.60	9.02	9.13	-145.70	138.16	-1,666.14	1,698.10	1,679.97	18.13	93.673	
4,172.70	4,171.16	4,230.61	4,230.55	9.19	9.34	-145.85	139.12	-1,663.14	1,702.65	1,684.17	18.48	92.126	
4,200.00	4,198.27	4,268.21	4,268.12	9.25	9.41	-145.91	139.62	-1,661.58	1,704.20	1,685.59	18.61	91.554	
4,300.00	4,297.58	4,402.91	4,402.58	9.48	9.70	-146.11	142.03	-1,654.09	1,708.48	1,689.39	19.09	89.493	
4,400.00	4,396.89	4,502.78	4,502.21	9.71	9.91	-146.24	144.14	-1,647.55	1,711.83	1,692.32	19.52	87.708	
4,500.00	4,496.20	4,602.64	4,601.84	9.95	10.12	-146.37	146.24	-1,641.01	1,715.20	1,695.25	19.95	85.989	
4,600.00	4,495.51	4,702.50	4,701.46	10.19	10.34	-146.51	148.34	-1,634.47	1,718.57	1,698.19	20.38	84.333	
4,700.00	4,494.83	4,802.37	4,801.09	10.43	10.56	-146.64	150.45	-1,627.94	1,721.95	1,701.14	20.81	82.736	
4,800.00	4,794.14	4,902.23	4,900.72	10.67	10.77	-146.77	152.55	-1,621.40	1,725.34	1,704.09	21.25	81.197	
4,900.00	4,893.45	5,002.10	5,000.35	10.92	10.99	-146.90	154.65	-1,614.86	1,728.74	1,707.05	21.69	79.713	
5,000.00	4,992.76	5,101.96	5,099.97	11.17	11.21	-147.03	156.76	-1,608.32	1,732.15	1,710.02	22.13	78.281	

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

LEAM Drilling Systems LLC

Anticollision Report

Company: Devon Energy
Project: Lea County, NM (NAD-83)
Reference Site: Fighting Okra 18-19 Fed
Site Error: 0.00 usft
Reference Well: 85H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Plan #1

Local Co-ordinate Reference: Well 85H
TVD Reference: 3369.1' GE + 25' KB @ 3394.10usft
MD Reference: 3369.1' GE + 25' KB @ 3394.10usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDM 5000.1 Multi User Db
Offset TVD Reference: Offset Datum

Offset Design Fighting Okra 18-19 Fed - 15H - OH - Plan #1													Offset Site Error: 0.00 usft
Survey Program: 0-LEAM MWD+HDGM													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Distance							
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
5,100.00	5,092.07	5,201.82	5,199.60	11.42	11.44	-147.16	158.86	-1,601.79	1,735.57	1,713.00	22.57	76.900	
5,200.00	5,191.38	5,301.69	5,299.23	11.67	11.66	-147.29	160.96	-1,595.25	1,739.00	1,715.98	23.01	75.567	
5,300.00	5,290.69	5,401.55	5,398.85	11.93	11.88	-147.42	163.07	-1,588.71	1,742.43	1,718.97	23.46	74.280	
5,400.00	5,390.01	5,501.41	5,498.48	12.18	12.11	-147.55	165.17	-1,582.17	1,745.88	1,721.97	23.90	73.036	
5,500.00	5,489.32	5,601.28	5,598.11	12.44	12.34	-147.68	167.27	-1,575.64	1,749.33	1,724.98	24.35	71.835	
5,600.00	5,588.63	5,701.14	5,697.74	12.70	12.56	-147.81	169.38	-1,569.10	1,752.79	1,727.99	24.80	70.674	
5,700.00	5,687.94	5,801.00	5,797.36	12.96	12.79	-147.94	171.48	-1,562.56	1,756.26	1,731.01	25.25	69.552	
5,800.00	5,787.25	5,900.87	5,896.99	13.22	13.02	-148.06	173.58	-1,556.02	1,759.74	1,734.04	25.70	68.466	
5,900.00	5,886.56	6,000.73	5,996.62	13.48	13.25	-148.19	175.69	-1,549.49	1,763.23	1,737.08	26.15	67.416	
6,000.00	5,985.88	6,100.60	6,096.25	13.75	13.48	-148.32	177.79	-1,542.95	1,766.73	1,740.12	26.61	66.399	
6,100.00	6,085.19	6,200.46	6,195.87	14.01	13.71	-148.44	179.89	-1,536.41	1,770.23	1,743.17	27.06	65.414	
6,200.00	6,184.50	6,300.32	6,295.50	14.28	13.94	-148.57	181.99	-1,529.87	1,773.75	1,746.23	27.52	64.460	
6,300.00	6,283.81	6,400.19	6,395.13	14.55	14.17	-148.69	184.10	-1,523.34	1,777.27	1,749.30	27.97	63.536	
6,400.00	6,383.12	6,500.05	6,494.75	14.81	14.40	-148.81	186.20	-1,516.80	1,780.80	1,752.37	28.43	62.640	
6,500.00	6,482.43	6,599.91	6,594.38	15.08	14.64	-148.94	188.30	-1,510.26	1,784.34	1,755.45	28.89	61.771	
6,600.00	6,581.75	6,699.78	6,694.01	15.35	14.87	-149.06	190.41	-1,503.72	1,787.89	1,758.54	29.34	60.928	
6,700.00	6,681.06	6,799.64	6,793.64	15.62	15.11	-149.18	192.51	-1,497.19	1,791.44	1,761.64	29.80	60.111	
6,800.00	6,780.37	6,899.50	6,893.26	15.90	15.34	-149.30	194.61	-1,490.65	1,795.00	1,764.74	30.26	59.317	
6,900.00	6,879.68	6,999.37	6,992.89	16.17	15.58	-149.43	196.72	-1,484.11	1,798.58	1,767.85	30.72	58.546	
7,000.00	6,978.99	7,099.23	7,092.52	16.44	15.81	-149.55	198.82	-1,477.57	1,802.15	1,770.97	31.18	57.797	
7,100.00	7,078.30	7,199.10	7,192.14	16.71	16.05	-149.67	200.92	-1,471.04	1,805.74	1,774.10	31.64	57.069	
7,200.00	7,177.61	7,298.96	7,291.77	16.99	16.28	-149.79	203.03	-1,464.50	1,809.34	1,777.24	32.10	56.361	
7,300.00	7,276.93	7,398.82	7,391.40	17.26	16.52	-149.91	205.13	-1,457.96	1,812.94	1,780.38	32.56	55.674	
7,400.00	7,376.24	7,498.69	7,491.03	17.54	16.76	-150.03	207.23	-1,451.42	1,816.55	1,783.53	33.03	55.005	
7,500.00	7,475.55	7,598.55	7,590.65	17.81	16.99	-150.14	209.34	-1,444.89	1,820.17	1,786.68	33.49	54.354	
7,600.00	7,574.86	7,698.41	7,690.28	18.09	17.23	-150.26	211.44	-1,438.35	1,823.80	1,789.85	33.95	53.720	
7,700.00	7,674.17	7,798.28	7,789.91	18.37	17.47	-150.38	213.54	-1,431.81	1,827.43	1,793.02	34.41	53.103	
7,800.00	7,773.48	7,898.14	7,889.54	18.64	17.71	-150.50	215.65	-1,425.27	1,831.07	1,796.20	34.88	52.502	
7,900.00	7,872.80	7,998.00	7,989.16	18.92	17.95	-150.61	217.75	-1,418.74	1,834.72	1,799.38	35.34	51.917	
8,000.00	7,972.11	8,097.87	8,088.79	19.20	18.19	-150.73	219.85	-1,412.20	1,838.38	1,802.58	35.80	51.347	
8,100.00	8,071.42	8,197.73	8,188.42	19.48	18.42	-150.85	221.96	-1,405.66	1,842.05	1,805.78	36.27	50.791	
8,200.00	8,170.73	8,297.60	8,288.04	19.76	18.66	-150.96	224.06	-1,399.12	1,845.72	1,808.99	36.73	50.249	
8,300.00	8,270.04	8,397.46	8,387.67	20.04	18.90	-151.08	226.16	-1,392.59	1,849.40	1,812.20	37.20	49.721	
8,400.00	8,369.35	8,497.32	8,487.30	20.32	19.14	-151.19	228.26	-1,386.05	1,853.09	1,815.43	37.66	49.205	
8,500.00	8,468.66	8,597.19	8,586.93	20.60	19.38	-151.30	230.37	-1,379.51	1,856.78	1,818.66	38.13	48.702	
8,600.00	8,567.98	8,697.05	8,686.55	20.88	19.62	-151.42	232.47	-1,372.97	1,860.48	1,821.89	38.59	48.211	
8,700.00	8,667.29	8,796.91	8,786.18	21.16	19.86	-151.53	234.57	-1,366.44	1,864.19	1,825.14	39.06	47.732	
8,800.00	8,766.60	8,896.78	8,885.81	21.44	20.11	-151.64	236.68	-1,359.90	1,867.91	1,828.39	39.52	47.264	
8,900.00	8,865.91	8,996.64	8,985.43	21.72	20.35	-151.75	238.78	-1,353.36	1,871.63	1,831.65	39.99	46.807	
9,000.00	8,965.22	9,096.50	9,085.06	22.00	20.59	-151.87	240.88	-1,346.82	1,875.36	1,834.91	40.45	46.360	
9,100.00	9,064.53	9,196.37	9,184.69	22.28	20.83	-151.98	242.99	-1,340.29	1,879.10	1,838.18	40.92	45.924	
9,200.00	9,163.85	9,296.23	9,284.32	22.57	21.07	-152.09	245.09	-1,333.75	1,882.84	1,841.46	41.38	45.497	
9,300.00	9,263.16	9,396.10	9,383.94	22.85	21.31	-152.20	247.19	-1,327.21	1,886.60	1,844.75	41.85	45.080	
9,400.00	9,362.47	9,495.96	9,483.57	23.13	21.55	-152.31	249.30	-1,320.67	1,890.36	1,848.04	42.32	44.673	
9,500.00	9,461.78	9,595.82	9,583.20	23.41	21.80	-152.42	251.40	-1,314.14	1,894.12	1,851.34	42.78	44.274	
9,600.00	9,561.09	9,695.69	9,682.83	23.70	22.04	-152.53	253.50	-1,307.60	1,897.89	1,854.65	43.25	43.883	
9,700.00	9,660.40	9,795.55	9,782.45	23.98	22.28	-152.64	255.61	-1,301.06	1,901.67	1,857.96	43.71	43.502	
9,800.00	9,759.71	9,895.41	9,882.08	24.26	22.52	-152.74	257.71	-1,294.52	1,905.46	1,861.28	44.18	43.128	
9,900.00	9,859.03	9,995.28	9,981.71	24.55	22.77	-152.85	259.81	-1,287.99	1,909.25	1,864.60	44.65	42.762	
10,000.00	9,958.34	10,095.14	10,081.33	24.83	23.01	-152.96	261.92	-1,281.45	1,913.05	1,867.94	45.11	42.404	
10,100.00	10,057.65	10,195.00	10,180.96	25.11	23.25	-153.07	264.02	-1,274.91	1,916.86	1,871.28	45.58	42.053	
10,200.00	10,156.96	10,294.87	10,280.59	25.40	23.49	-153.17	266.12	-1,268.37	1,920.67	1,874.62	46.05	41.710	

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

LEAM Drilling Systems LLC

Anticollision Report

Company: Devon Energy
Project: Lea County, NM (NAD-83)
Reference Site: Fighting Okra 18-19 Fed
Site Error: 0.00 usft
Reference Well: 85H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Plan #1

Local Co-ordinate Reference: Well 85H
TVD Reference: 3369.1' GE + 25' KB @ 3394.10usft
MD Reference: 3369.1' GE + 25' KB @ 3394.10usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDM 5000.1 Multi User Db
Offset TVD Reference: Offset Datum

Offset Design Fighting Okra 18-19 Fed - 15H - OH - Plan #1													Offset Site Error: 0.00 usft
Survey Program: 0-LEAM MWD+HDGM													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Distance		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
10,300.00	10,256.27	10,394.73	10,380.22	25.68	23.74	-153.28	268.22	-1,261.84	1,924.49	1,877.98	46.52	41.373	
10,400.00	10,355.58	10,494.60	10,479.84	25.97	23.98	-153.38	270.33	-1,255.30	1,928.32	1,881.34	46.98	41.044	
10,500.00	10,454.90	10,594.46	10,579.47	26.25	24.22	-153.49	272.43	-1,248.76	1,932.15	1,884.70	47.45	40.720	
10,600.00	10,554.21	10,694.32	10,679.10	26.54	24.47	-153.59	274.53	-1,242.22	1,935.99	1,888.07	47.92	40.404	
10,700.00	10,653.52	10,794.19	10,778.72	26.82	24.71	-153.70	276.64	-1,235.69	1,939.84	1,891.45	48.38	40.093	
10,800.00	10,752.83	10,894.05	10,878.35	27.11	24.96	-153.80	278.74	-1,229.15	1,943.69	1,894.84	48.85	39.789	
10,900.00	10,852.14	10,993.91	10,977.98	27.39	25.20	-153.91	280.84	-1,222.61	1,947.55	1,898.23	49.32	39.490	
11,000.00	10,951.45	11,093.78	11,077.61	27.68	25.44	-154.01	282.95	-1,216.07	1,951.41	1,901.63	49.78	39.197	
11,100.00	11,050.77	11,195.85	11,179.51	27.96	25.63	-154.10	284.60	-1,210.94	1,955.61	1,905.40	50.21	38.952	
11,178.62	11,128.84	11,234.75	11,218.31	28.19	25.75	-154.16	285.58	-1,207.90	1,959.76	1,909.25	50.51	38.798	
11,200.00	11,150.08	11,250.75	11,234.30	28.24	25.78	-154.19	285.81	-1,207.17	1,960.99	1,910.40	50.59	38.764	
11,300.00	11,249.53	11,325.59	11,309.07	28.46	25.91	-154.29	286.73	-1,204.33	1,966.57	1,915.65	50.92	38.624	
11,400.00	11,349.15	11,400.00	11,383.46	28.66	26.05	-154.38	287.34	-1,202.43	1,971.85	1,920.61	51.23	38.487	
11,500.00	11,448.90	11,475.15	11,458.60	28.86	26.18	-154.46	287.65	-1,201.44	1,976.82	1,925.28	51.54	38.352	
11,600.00	11,548.76	11,561.11	11,544.56	29.05	26.34	-154.54	287.70	-1,201.30	1,981.38	1,929.50	51.88	38.191	
11,700.00	11,648.70	11,661.05	11,644.50	29.22	26.54	-154.59	287.70	-1,201.30	1,984.55	1,932.28	52.27	37.970	
11,800.00	11,748.68	11,761.03	11,744.48	29.39	26.75	-154.62	287.70	-1,201.30	1,986.15	1,933.49	52.65	37.721	
11,851.32	11,800.00	11,812.35	11,795.80	29.47	26.85	-94.72	287.70	-1,201.30	1,986.35	1,933.50	52.85	37.583	
11,900.00	11,848.68	11,861.03	11,844.48	29.56	26.96	-94.72	287.70	-1,201.30	1,986.35	1,933.30	53.05	37.443	
12,000.00	11,948.68	11,961.03	11,944.48	29.75	27.17	-94.72	287.70	-1,201.30	1,986.35	1,932.88	53.47	37.148	
12,100.00	12,048.68	12,039.92	12,023.18	29.94	27.31	-94.85	283.14	-1,201.30	1,986.85	1,933.04	53.81	36.926	
12,200.00	12,148.68	12,114.80	12,096.63	30.14	27.42	-95.26	268.89	-1,201.30	1,988.56	1,934.47	54.10	36.760	
12,300.00	12,248.68	12,184.89	12,163.17	30.33	27.52	-95.88	246.98	-1,201.30	1,991.78	1,937.42	54.35	36.646	
12,392.36	12,341.04	12,250.00	12,222.15	30.51	27.61	-96.67	219.50	-1,201.30	1,996.42	1,941.85	54.57	36.583	
12,400.00	12,348.68	12,250.00	12,222.15	30.52	27.61	83.29	219.50	-1,201.30	1,996.86	1,942.29	54.58	36.588	
12,450.00	12,398.58	12,279.13	12,247.46	30.59	27.65	82.62	205.07	-1,201.30	1,999.90	1,945.24	54.65	36.593	
12,500.00	12,448.05	12,309.21	12,272.78	30.65	27.68	81.96	188.84	-1,201.30	2,002.93	1,948.22	54.72	36.605	
12,550.00	12,496.70	12,339.06	12,297.03	30.70	27.72	81.34	171.44	-1,201.30	2,005.92	1,951.15	54.77	36.626	
12,600.00	12,544.16	12,368.72	12,320.20	30.73	27.76	80.77	152.93	-1,201.30	2,008.80	1,953.99	54.81	36.653	
12,650.00	12,590.08	12,400.00	12,343.56	30.75	27.79	80.22	132.13	-1,201.30	2,011.53	1,956.69	54.84	36.679	
12,700.00	12,634.11	12,427.57	12,363.17	30.76	27.83	79.76	112.77	-1,201.30	2,014.06	1,959.20	54.86	36.712	
12,750.00	12,675.90	12,450.00	12,378.44	30.75	27.86	79.37	96.33	-1,201.30	2,016.37	1,961.51	54.86	36.755	
12,800.00	12,715.15	12,485.93	12,401.51	30.74	27.90	78.96	68.80	-1,201.30	2,018.37	1,963.48	54.90	36.766	
12,850.00	12,751.55	12,514.98	12,418.88	30.73	27.94	78.65	45.51	-1,201.30	2,020.09	1,965.17	54.92	36.784	
12,900.00	12,784.82	12,550.00	12,438.21	30.70	27.99	78.38	16.32	-1,201.30	2,021.49	1,966.53	54.96	36.779	
12,950.00	12,814.72	12,572.90	12,449.87	30.68	28.03	78.22	-3.39	-1,201.30	2,022.51	1,967.53	54.98	36.787	
13,000.00	12,841.01	12,600.00	12,462.64	30.65	28.07	78.11	-27.29	-1,201.30	2,023.17	1,968.16	55.02	36.774	
13,050.00	12,863.50	12,630.70	12,475.72	30.62	28.13	78.05	-55.06	-1,201.30	2,023.46	1,968.37	55.09	36.733	
13,100.00	12,882.01	12,650.00	12,483.18	30.60	28.17	78.06	-72.86	-1,201.30	2,023.41	1,968.28	55.12	36.706	
13,150.00	12,896.40	12,688.47	12,496.23	30.59	28.26	78.15	-109.04	-1,201.30	2,022.90	1,967.63	55.26	36.604	
13,200.00	12,908.57	12,717.39	12,504.42	30.59	28.33	78.30	-136.77	-1,201.30	2,022.05	1,966.67	55.39	36.509	
13,250.00	12,912.43	12,750.00	12,511.97	30.61	28.42	78.53	-168.49	-1,201.30	2,020.85	1,965.31	55.54	36.383	
13,292.36	12,914.00	12,770.93	12,515.86	30.63	28.48	78.75	-189.05	-1,201.30	2,019.56	1,963.89	55.67	36.277	
13,300.00	12,914.00	12,775.37	12,516.59	30.64	28.50	78.77	-193.44	-1,201.30	2,019.31	1,963.61	55.70	36.255	
13,400.00	12,914.00	12,834.36	12,523.03	30.78	28.69	78.95	-252.05	-1,201.30	2,017.18	1,961.09	56.09	35.981	
13,500.00	12,914.00	12,911.93	12,524.00	31.01	29.00	78.97	-329.60	-1,201.30	2,016.87	1,960.21	56.66	35.595	
13,525.57	12,914.00	12,937.50	12,524.00	31.09	29.12	78.97	-355.17	-1,201.30	2,016.87	1,960.00	56.87	35.463	
13,600.00	12,914.00	13,011.93	12,524.00	31.35	29.47	78.97	-429.60	-1,201.30	2,016.87	1,959.38	57.50	35.079	
13,700.00	12,914.00	13,111.93	12,524.00	31.78	30.03	78.97	-529.60	-1,201.30	2,016.87	1,958.38	58.49	34.479	
13,800.00	12,914.00	13,211.93	12,524.00	32.29	30.66	78.97	-629.60	-1,201.30	2,016.87	1,957.22	59.65	33.811	
13,900.00	12,914.00	13,311.93	12,524.00	32.89	31.37	78.97	-729.60	-1,201.30	2,016.87	1,955.92	60.96	33.087	
14,000.00	12,914.00	13,411.93	12,524.00	33.57	32.14	78.97	-829.60	-1,201.30	2,016.87	1,954.47	62.40	32.322	

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

LEAM Drilling Systems LLC

Anticollision Report

Company: Devon Energy
 Project: Lea County, NM (NAD-83)
 Reference Site: Fighting Okra 18-19 Fed
 Site Error: 0.00 usft
 Reference Well: 85H
 Well Error: 0.00 usft
 Reference Wellbore: OH
 Reference Design: Plan #1

Local Co-ordinate Reference: Well 85H
 TVD Reference: 3369.1' GE + 25' KB @ 3394.10usft
 MD Reference: 3369.1' GE + 25' KB @ 3394.10usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Output errors are at: 2.00 sigma
 Database: EDM 5000.1 Multi User Db
 Offset TVD Reference: Offset Datum

Offset Design Fighting Okra 18-19 Fed - 15H - OH - Plan #1													Offset Site Error: 0.00 usft
Survey Program: 0-LEAM MWD+HDGM													Offset Well Error: 0.00 usft
Reference				Offset			Semi Major Axis		Distance				Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N-S (usft)	+E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
14,100.00	12,914.00	13,511.93	12,524.00	34.31	32.97	78.97	-929.60	-1,201.30	2,016.87	1,952.90	63.97	31.527	
14,200.00	12,914.00	13,611.93	12,524.00	35.11	33.87	78.97	-1,029.60	-1,201.30	2,016.87	1,951.21	65.67	30.714	
14,300.00	12,914.00	13,711.93	12,524.00	35.97	34.82	78.97	-1,129.60	-1,201.30	2,016.87	1,949.40	67.47	29.892	
14,400.00	12,914.00	13,811.93	12,524.00	36.89	35.82	78.97	-1,229.60	-1,201.30	2,016.87	1,947.49	69.38	29.070	
14,500.00	12,914.00	13,911.93	12,524.00	37.85	36.86	78.97	-1,329.60	-1,201.30	2,016.87	1,945.49	71.38	28.255	
14,600.00	12,914.00	14,011.93	12,524.00	38.86	37.94	78.97	-1,429.60	-1,201.30	2,016.87	1,943.40	73.47	27.452	
14,700.00	12,914.00	14,111.93	12,524.00	39.91	39.07	78.97	-1,529.60	-1,201.30	2,016.87	1,941.24	75.64	26.665	
14,800.00	12,914.00	14,211.93	12,524.00	41.00	40.23	78.97	-1,629.60	-1,201.30	2,016.87	1,939.00	77.88	25.898	
14,900.00	12,914.00	14,311.93	12,524.00	42.12	41.42	78.97	-1,729.60	-1,201.30	2,016.87	1,936.69	80.18	25.153	
15,000.00	12,914.00	14,411.93	12,524.00	43.28	42.64	78.97	-1,829.60	-1,201.30	2,016.87	1,934.32	82.55	24.432	
15,100.00	12,914.00	14,511.93	12,524.00	44.46	43.88	78.97	-1,929.60	-1,201.30	2,016.87	1,931.90	84.98	23.734	
15,200.00	12,914.00	14,611.93	12,524.00	45.68	45.15	78.97	-2,029.60	-1,201.30	2,016.87	1,929.42	87.45	23.063	
15,300.00	12,914.00	14,711.93	12,524.00	46.92	46.45	78.97	-2,129.60	-1,201.30	2,016.87	1,926.90	89.98	22.416	
15,400.00	12,914.00	14,811.93	12,524.00	48.18	47.76	78.97	-2,229.60	-1,201.30	2,016.87	1,924.33	92.54	21.794	
15,500.00	12,914.00	14,911.93	12,524.00	49.46	49.10	78.97	-2,329.60	-1,201.30	2,016.87	1,921.73	95.15	21.197	
15,600.00	12,914.00	15,011.93	12,524.00	50.77	50.45	78.97	-2,429.60	-1,201.30	2,016.87	1,919.08	97.79	20.625	
15,700.00	12,914.00	15,111.93	12,524.00	52.09	51.82	78.97	-2,529.60	-1,201.30	2,016.87	1,916.41	100.47	20.075	
15,800.00	12,914.00	15,211.93	12,524.00	53.43	53.20	78.97	-2,629.60	-1,201.30	2,016.87	1,913.70	103.17	19.548	
15,900.00	12,914.00	15,311.93	12,524.00	54.78	54.60	78.97	-2,729.60	-1,201.30	2,016.87	1,910.96	105.91	19.043	
16,000.00	12,914.00	15,411.93	12,524.00	56.15	56.01	78.97	-2,829.60	-1,201.30	2,016.87	1,908.20	108.67	18.559	
16,100.00	12,914.00	15,511.93	12,524.00	57.54	57.43	78.97	-2,929.60	-1,201.30	2,016.87	1,905.41	111.46	18.095	
16,200.00	12,914.00	15,611.93	12,524.00	58.94	58.86	78.97	-3,029.60	-1,201.30	2,016.87	1,902.60	114.27	17.650	
16,300.00	12,914.00	15,711.93	12,524.00	60.34	60.30	78.97	-3,129.60	-1,201.30	2,016.87	1,899.77	117.10	17.223	
16,400.00	12,914.00	15,811.93	12,524.00	61.76	61.76	78.97	-3,229.60	-1,201.30	2,016.87	1,896.92	119.95	16.814	
16,500.00	12,914.00	15,911.93	12,524.00	63.19	63.22	78.97	-3,329.60	-1,201.30	2,016.87	1,894.05	122.82	16.421	
16,600.00	12,914.00	16,011.93	12,524.00	64.63	64.69	78.97	-3,429.60	-1,201.30	2,016.87	1,891.17	125.71	16.044	
16,700.00	12,914.00	16,111.93	12,524.00	66.08	66.17	78.97	-3,529.60	-1,201.30	2,016.87	1,888.26	128.61	15.682	
16,800.00	12,914.00	16,211.93	12,524.00	67.54	67.65	78.97	-3,629.60	-1,201.30	2,016.87	1,885.35	131.53	15.334	
16,900.00	12,914.00	16,311.93	12,524.00	69.01	69.14	78.97	-3,729.60	-1,201.30	2,016.87	1,882.42	134.46	15.000	
17,000.00	12,914.00	16,411.93	12,524.00	70.48	70.64	78.97	-3,829.60	-1,201.30	2,016.87	1,879.47	137.40	14.679	
17,100.00	12,914.00	16,511.93	12,524.00	71.96	72.14	78.97	-3,929.60	-1,201.30	2,016.87	1,876.52	140.36	14.370	
17,200.00	12,914.00	16,611.93	12,524.00	73.44	73.65	78.97	-4,029.60	-1,201.30	2,016.87	1,873.55	143.32	14.072	
17,300.00	12,914.00	16,711.93	12,524.00	74.94	75.17	78.97	-4,129.60	-1,201.30	2,016.87	1,870.57	146.30	13.786	
17,400.00	12,914.00	16,811.93	12,524.00	76.43	76.69	78.97	-4,229.60	-1,201.30	2,016.87	1,867.58	149.29	13.510	
17,500.00	12,914.00	16,911.93	12,524.00	77.94	78.21	78.97	-4,329.60	-1,201.30	2,016.87	1,864.59	152.29	13.244	
17,600.00	12,914.00	17,011.93	12,524.00	79.45	79.74	78.97	-4,429.60	-1,201.30	2,016.87	1,861.58	155.29	12.988	
17,700.00	12,914.00	17,111.93	12,524.00	80.96	81.27	78.97	-4,529.60	-1,201.30	2,016.87	1,858.57	158.31	12.740	
17,800.00	12,914.00	17,211.93	12,524.00	82.48	82.81	78.97	-4,629.60	-1,201.30	2,016.87	1,855.54	161.33	12.502	
17,900.00	12,914.00	17,311.93	12,524.00	84.00	84.35	78.97	-4,729.60	-1,201.30	2,016.87	1,852.51	164.36	12.271	
18,000.00	12,914.00	17,411.93	12,524.00	85.53	85.89	78.97	-4,829.60	-1,201.30	2,016.87	1,849.48	167.40	12.048	
18,100.00	12,914.00	17,511.93	12,524.00	87.06	87.44	78.97	-4,929.60	-1,201.30	2,016.87	1,846.43	170.44	11.833	
18,200.00	12,914.00	17,611.93	12,524.00	88.59	88.99	78.97	-5,029.60	-1,201.30	2,016.87	1,843.38	173.49	11.625	
18,300.00	12,914.00	17,711.93	12,524.00	90.13	90.54	78.97	-5,129.60	-1,201.30	2,016.87	1,840.32	176.55	11.424	
18,400.00	12,914.00	17,811.93	12,524.00	91.67	92.10	78.97	-5,229.60	-1,201.30	2,016.87	1,837.26	179.61	11.229	
18,500.00	12,914.00	17,911.93	12,524.00	93.21	93.66	78.97	-5,329.60	-1,201.30	2,016.87	1,834.19	182.68	11.041	
18,600.00	12,914.00	18,011.93	12,524.00	94.76	95.22	78.97	-5,429.60	-1,201.30	2,016.87	1,831.12	185.75	10.858	
18,700.00	12,914.00	18,111.93	12,524.00	96.31	96.78	78.97	-5,529.60	-1,201.30	2,016.87	1,828.04	188.83	10.681	
18,800.00	12,914.00	18,211.93	12,524.00	97.86	98.35	78.97	-5,629.60	-1,201.30	2,016.87	1,824.96	191.91	10.509	
18,900.00	12,914.00	18,311.93	12,524.00	99.42	99.91	78.97	-5,729.60	-1,201.30	2,016.87	1,821.87	195.00	10.343	
19,000.00	12,914.00	18,411.93	12,524.00	100.98	101.48	78.97	-5,829.60	-1,201.30	2,016.87	1,818.78	198.09	10.182	
19,100.00	12,914.00	18,511.93	12,524.00	102.54	103.06	78.97	-5,929.60	-1,201.30	2,016.87	1,815.69	201.18	10.025	
19,200.00	12,914.00	18,611.93	12,524.00	104.10	104.63	78.97	-6,029.60	-1,201.30	2,016.87	1,812.59	204.28	9.873	

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

LEAM Drilling Systems LLC

Anticollision Report

Company: Devon Energy
Project: Lea County, NM (NAD-83)
Reference Site: Fighting Okra 18-19 Fed
Site Error: 0.00 usft
Reference Well: 85H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Plan #1

Local Co-ordinate Reference: Well 85H
TVD Reference: 3369.1' GE + 25' KB @ 3394.10usft
MD Reference: 3369.1' GE + 25' KB @ 3394.10usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDM 5000.1 Multi User Db
Offset TVD Reference: Offset Datum

Offset Design Fighting Okra 18-19 Fed - 15H - OH - Plan #1													Offset Site Error: 0.00 usft
Survey Program: 0-LEAM MWD+HDGM													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	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 +N/-S (usft)	Centre +E/-W (usft)					
19,300.00	12,914.00	18,711.93	12,524.00	105.67	106.21	78.97	-6,129.60	-1,201.30	2,016.87	1,809.49	207.39	9.725	
19,400.00	12,914.00	18,811.93	12,524.00	107.23	107.78	78.97	-6,229.60	-1,201.30	2,016.87	1,806.38	210.49	9.582	
19,500.00	12,914.00	18,911.93	12,524.00	108.80	109.36	78.97	-6,329.60	-1,201.30	2,016.87	1,803.27	213.60	9.442	
19,600.00	12,914.00	19,011.93	12,524.00	110.37	110.94	78.97	-6,429.60	-1,201.30	2,016.87	1,800.16	216.72	9.307	
19,700.00	12,914.00	19,111.93	12,524.00	111.94	112.53	78.97	-6,529.60	-1,201.30	2,016.87	1,797.04	219.83	9.175	
19,800.00	12,914.00	19,211.93	12,524.00	113.52	114.11	78.97	-6,629.60	-1,201.30	2,016.87	1,793.92	222.95	9.046	
19,900.00	12,914.00	19,311.93	12,524.00	115.09	115.69	78.97	-6,729.60	-1,201.30	2,016.87	1,790.80	226.07	8.921	
20,000.00	12,914.00	19,411.93	12,524.00	116.67	117.28	78.97	-6,829.60	-1,201.30	2,016.87	1,787.68	229.20	8.800	
20,100.00	12,914.00	19,511.93	12,524.00	118.25	118.87	78.97	-6,929.60	-1,201.30	2,016.87	1,784.55	232.32	8.681	
20,200.00	12,914.00	19,611.93	12,524.00	119.83	120.46	78.97	-7,029.60	-1,201.30	2,016.87	1,781.42	235.45	8.566	
20,300.00	12,914.00	19,711.93	12,524.00	121.41	122.05	78.97	-7,129.60	-1,201.30	2,016.87	1,778.29	238.59	8.453	
20,400.00	12,914.00	19,811.93	12,524.00	123.00	123.64	78.97	-7,229.60	-1,201.30	2,016.87	1,775.15	241.72	8.344	
20,500.00	12,914.00	19,911.93	12,524.00	124.58	125.23	78.97	-7,329.60	-1,201.30	2,016.87	1,772.02	244.86	8.237	
20,600.00	12,914.00	20,011.93	12,524.00	126.17	126.83	78.97	-7,429.60	-1,201.30	2,016.87	1,768.88	248.00	8.133	
20,700.00	12,914.00	20,111.93	12,524.00	127.75	128.42	78.97	-7,529.60	-1,201.30	2,016.87	1,765.74	251.14	8.031	
20,800.00	12,914.00	20,211.93	12,524.00	129.34	130.02	78.97	-7,629.60	-1,201.30	2,016.87	1,762.59	254.28	7.932	
20,900.00	12,914.00	20,311.93	12,524.00	130.93	131.61	78.97	-7,729.60	-1,201.30	2,016.87	1,759.45	257.42	7.835	
21,000.00	12,914.00	20,411.93	12,524.00	132.52	133.21	78.97	-7,829.60	-1,201.30	2,016.87	1,756.30	260.57	7.740	
21,100.00	12,914.00	20,511.93	12,524.00	134.11	134.81	78.97	-7,929.60	-1,201.30	2,016.87	1,753.15	263.72	7.648	
21,200.00	12,914.00	20,611.93	12,524.00	135.71	136.41	78.97	-8,029.60	-1,201.30	2,016.87	1,750.00	266.87	7.558	
21,300.00	12,914.00	20,711.93	12,524.00	137.30	138.01	78.97	-8,129.60	-1,201.30	2,016.87	1,746.85	270.02	7.469	
21,400.00	12,914.00	20,811.93	12,524.00	138.90	139.61	78.97	-8,229.60	-1,201.30	2,016.87	1,743.70	273.17	7.383	
21,500.00	12,914.00	20,911.93	12,524.00	140.49	141.21	78.97	-8,329.60	-1,201.30	2,016.87	1,740.54	276.33	7.299	
21,600.00	12,914.00	21,011.93	12,524.00	142.09	142.81	78.97	-8,429.60	-1,201.30	2,016.87	1,737.39	279.49	7.216	
21,700.00	12,914.00	21,111.93	12,524.00	143.68	144.42	78.97	-8,529.60	-1,201.30	2,016.87	1,734.23	282.64	7.136	
21,800.00	12,914.00	21,211.93	12,524.00	145.28	146.02	78.97	-8,629.60	-1,201.30	2,016.87	1,731.07	285.80	7.057	
21,900.00	12,914.00	21,311.93	12,524.00	146.88	147.62	78.97	-8,729.60	-1,201.30	2,016.87	1,727.91	288.96	6.980	
22,000.00	12,914.00	21,411.93	12,524.00	148.48	149.23	78.97	-8,829.60	-1,201.30	2,016.87	1,724.75	292.12	6.904	
22,100.00	12,914.00	21,511.93	12,524.00	150.08	150.84	78.97	-8,929.60	-1,201.30	2,016.87	1,721.59	295.29	6.830	
22,200.00	12,914.00	21,611.93	12,524.00	151.68	152.44	78.97	-9,029.60	-1,201.30	2,016.87	1,718.42	298.45	6.758	
22,300.00	12,914.00	21,711.93	12,524.00	153.28	154.05	78.97	-9,129.60	-1,201.30	2,016.87	1,715.26	301.62	6.687	
22,400.00	12,914.00	21,811.93	12,524.00	154.89	155.66	78.97	-9,229.60	-1,201.30	2,016.87	1,712.09	304.78	6.617	
22,500.00	12,914.00	21,911.93	12,524.00	156.49	157.26	78.97	-9,329.60	-1,201.30	2,016.87	1,708.92	307.95	6.549	
22,600.00	12,914.00	22,011.93	12,524.00	158.09	158.87	78.97	-9,429.60	-1,201.30	2,016.87	1,705.75	311.12	6.483	
22,700.00	12,914.00	22,111.93	12,524.00	159.70	160.48	78.97	-9,529.60	-1,201.30	2,016.87	1,702.58	314.29	6.417	
22,800.00	12,914.00	22,211.93	12,524.00	161.30	162.09	78.97	-9,629.60	-1,201.30	2,016.87	1,699.41	317.46	6.353	
22,867.23	12,914.00	22,279.16	12,524.00	162.38	163.17	78.97	-9,696.83	-1,201.30	2,016.87	1,697.28	319.59	6.311 SF	

LEAM Drilling Systems LLC

Anticollision Report

Company: Devon Energy
 Project: Lea County, NM (NAD-83)
 Reference Site: Fighting Okra 18-19 Fed
 Site Error: 0.00 usft
 Reference Well: 85H
 Well Error: 0.00 usft
 Reference Wellbore: OH
 Reference Design: Plan #1

Local Co-ordinate Reference: Well 85H
 TVD Reference: 3369.1' GE + 25' KB @ 3394.10usft
 MD Reference: 3369.1' GE + 25' KB @ 3394.10usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Output errors are at: 2.00 sigma
 Database: EDM 5000.1 Multi User Db
 Offset TVD Reference: Offset Datum

Offset Design Fighting Okra 18-19 Fed - 2H - OH - Plan #1												Offset Site Error:	0.00 usft
Survey Program: 0-LEAM MWD+HDGM												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
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	Warning
0.00	0.00	1.90	1.90	0.00	0.00	-86.11	175.08	-2,577.70	2,583.64				
100.00	100.00	101.90	101.90	0.08	0.09	-86.11	175.08	-2,577.70	2,583.64	2,583.47	0.17	N/A	
200.00	200.00	201.90	201.90	0.31	0.31	-86.11	175.08	-2,577.70	2,583.64	2,583.02	0.62	4,151.242	
300.00	300.00	301.90	301.90	0.53	0.54	-86.11	175.08	-2,577.70	2,583.64	2,582.57	1.07	2,410.315	
400.00	400.00	401.90	401.90	0.76	0.76	-86.11	175.08	-2,577.70	2,583.64	2,582.12	1.52	1,698.152	
500.00	500.00	501.90	501.90	0.98	0.99	-86.11	175.08	-2,577.70	2,583.64	2,581.67	1.97	1,310.844	
600.00	600.00	601.90	601.90	1.21	1.21	-86.11	175.08	-2,577.70	2,583.64	2,581.22	2.42	1,067.396	
700.00	700.00	701.90	701.90	1.43	1.44	-86.11	175.08	-2,577.70	2,583.64	2,580.77	2.87	900.211	
800.00	800.00	801.90	801.90	1.66	1.66	-86.11	175.08	-2,577.70	2,583.64	2,580.32	3.32	778.305	
900.00	900.00	901.90	901.90	1.88	1.89	-86.11	175.08	-2,577.70	2,583.64	2,579.87	3.77	685.479	
1,000.00	1,000.00	1,001.90	1,001.90	2.11	2.11	-86.11	175.08	-2,577.70	2,583.64	2,579.42	4.22	612.435	
1,100.00	1,100.00	1,101.90	1,101.90	2.33	2.34	-86.11	175.08	-2,577.70	2,583.64	2,578.97	4.67	553.459	
1,200.00	1,200.00	1,201.90	1,201.90	2.56	2.56	-86.11	175.08	-2,577.70	2,583.64	2,578.52	5.12	504.844	
1,300.00	1,300.00	1,301.90	1,301.90	2.78	2.79	-86.11	175.08	-2,577.70	2,583.64	2,578.07	5.57	464.080	
1,400.00	1,400.00	1,401.90	1,401.90	3.01	3.01	-86.11	175.08	-2,577.70	2,583.64	2,577.62	6.02	429.407	
1,500.00	1,500.00	1,501.90	1,501.90	3.23	3.24	-86.11	175.08	-2,577.70	2,583.64	2,577.17	6.47	399.555	
1,600.00	1,600.00	1,601.90	1,601.90	3.46	3.46	-86.11	175.08	-2,577.70	2,583.64	2,576.72	6.92	373.584	
1,700.00	1,700.00	1,701.90	1,701.90	3.68	3.68	-86.11	175.08	-2,577.70	2,583.64	2,576.27	7.37	350.783	
1,800.00	1,800.00	1,801.90	1,801.90	3.91	3.91	-86.11	175.08	-2,577.70	2,583.64	2,575.82	7.81	330.605	
1,900.00	1,900.00	1,901.90	1,901.90	4.13	4.13	-86.11	175.08	-2,577.70	2,583.64	2,575.37	8.26	312.622	
2,000.00	2,000.00	2,001.90	2,001.90	4.35	4.36	-86.11	175.08	-2,577.70	2,583.64	2,574.93	8.71	296.494	
2,100.00	2,100.00	2,101.90	2,101.90	4.58	4.58	-86.11	175.08	-2,577.70	2,583.64	2,574.48	9.16	281.949	
2,200.00	2,200.00	2,201.90	2,201.90	4.80	4.81	-86.11	175.08	-2,577.70	2,583.64	2,574.03	9.61	268.765	
2,300.00	2,300.00	2,301.90	2,301.90	5.03	5.03	-86.11	175.08	-2,577.70	2,583.64	2,573.58	10.06	256.758	
2,400.00	2,400.00	2,401.90	2,401.90	5.25	5.26	-86.11	175.08	-2,577.70	2,583.64	2,573.13	10.51	245.778	
2,416.02	2,416.02	2,417.92	2,417.92	5.29	5.29	-86.11	175.08	-2,577.70	2,583.64	2,573.05	10.58	244.106 CC	
2,500.00	2,500.00	2,500.00	2,500.00	5.48	5.48	-86.11	175.08	-2,577.70	2,583.64	2,572.68	10.96	235.791 ES	
2,600.00	2,600.00	2,571.09	2,571.09	5.70	5.63	-86.11	175.23	-2,578.11	2,584.25	2,572.91	11.33	228.000	
2,700.00	2,700.00	2,640.84	2,640.83	5.93	5.78	-86.10	175.67	-2,579.33	2,586.02	2,574.32	11.70	220.958	
2,800.00	2,800.00	2,700.00	2,699.96	6.15	5.90	-86.09	176.27	-2,580.98	2,589.00	2,576.95	12.05	214.939	
2,900.00	2,900.00	2,780.19	2,780.08	6.38	6.07	-86.07	177.42	-2,584.14	2,593.08	2,580.65	12.43	208.567	
3,000.00	3,000.00	2,849.75	2,849.54	6.60	6.22	-86.05	178.73	-2,587.73	2,598.36	2,585.57	12.80	203.068	
3,100.00	3,100.00	2,919.21	2,918.84	6.83	6.37	-86.02	180.32	-2,592.11	2,604.81	2,591.65	13.16	197.988	
3,200.00	3,200.00	3,005.53	3,004.90	7.05	6.56	-85.98	182.61	-2,598.39	2,612.24	2,598.68	13.56	192.673	
3,300.00	3,300.00	3,105.22	3,104.28	7.28	6.78	-85.93	185.28	-2,605.74	2,619.78	2,605.79	13.99	187.219	
3,400.00	3,400.00	3,204.91	3,203.67	7.50	7.00	-85.89	187.96	-2,613.08	2,627.32	2,612.89	14.43	182.076	
3,500.00	3,500.00	3,304.61	3,303.05	7.73	7.22	-85.84	190.63	-2,620.43	2,634.87	2,620.00	14.87	177.221	
3,600.00	3,600.00	3,404.25	3,402.39	7.94	7.45	-145.67	193.30	-2,627.78	2,643.14	2,627.84	15.30	172.760	
3,700.00	3,699.96	3,503.77	3,501.61	8.16	7.68	-145.60	195.97	-2,635.11	2,652.84	2,637.11	15.73	168.698	
3,800.00	3,799.86	3,603.15	3,600.68	8.37	7.91	-145.54	198.64	-2,642.43	2,663.97	2,647.82	16.15	164.930	
3,900.00	3,899.68	3,702.35	3,699.57	8.58	8.14	-145.50	201.30	-2,649.75	2,676.54	2,659.96	16.58	161.432	
4,000.00	3,999.37	3,801.34	3,798.25	8.80	8.37	-145.47	203.95	-2,657.04	2,690.53	2,673.52	17.01	158.184	
4,100.00	4,098.90	3,900.09	3,896.70	9.02	8.60	-145.45	206.60	-2,664.32	2,705.94	2,688.50	17.44	155.167	
4,172.70	4,171.16	3,971.71	3,968.10	9.19	8.77	-145.44	208.52	-2,669.60	2,718.04	2,700.29	17.75	153.105	
4,200.00	4,198.27	3,998.58	3,994.89	9.25	8.83	-145.47	209.24	-2,671.58	2,722.73	2,704.86	17.87	152.356	
4,300.00	4,297.58	4,096.99	4,093.00	9.48	9.07	-145.56	211.88	-2,678.83	2,739.90	2,721.59	18.30	149.693	
4,400.00	4,396.89	4,195.41	4,191.11	9.71	9.30	-145.66	214.52	-2,686.08	2,757.07	2,738.34	18.74	147.135	
4,500.00	4,496.20	4,293.83	4,289.22	9.95	9.54	-145.75	217.16	-2,693.34	2,774.26	2,755.08	19.18	144.677	
4,600.00	4,595.51	4,392.24	4,387.34	10.19	9.78	-145.84	219.80	-2,700.59	2,791.45	2,771.83	19.61	142.314	
4,700.00	4,694.83	4,490.66	4,485.45	10.43	10.01	-145.93	222.44	-2,707.84	2,808.64	2,788.59	20.06	140.041	
4,800.00	4,794.14	4,589.08	4,583.56	10.67	10.25	-146.02	225.08	-2,715.10	2,825.84	2,805.34	20.50	137.855	
4,900.00	4,893.45	4,687.49	4,681.68	10.92	10.49	-146.10	227.72	-2,722.35	2,843.05	2,822.11	20.94	135.750	

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

LEAM Drilling Systems LLC

Anticollision Report

Company: Devon Energy
Project: Lea County, NM (NAD-83)
Reference Site: Fighting Okra 18-19 Fed
Site Error: 0.00 usft
Reference Well: 85H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Plan #1

Local Co-ordinate Reference: Well 85H
TVD Reference: 3369.1' GE + 25' KB @ 3394.10usft
MD Reference: 3369.1' GE + 25' KB @ 3394.10usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDM 5000.1 Multi User Db
Offset TVD Reference: Offset Datum

Offset Design Fighting Okra 18-19 Fed - 2H - OH - Plan #1												Offset Site Error:	0.00 usft
Survey Program: 0-LEAM MWD+HDGM												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance		Minimum Separation		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,000.00	4,992.76	4,785.91	4,779.79	11.17	10.73	-146.19	230.35	-2,729.60	2,860.27	2,838.88	21.39	133.723	
5,100.00	5,092.07	4,884.32	4,877.90	11.42	10.97	-146.27	232.99	-2,736.86	2,877.49	2,855.65	21.84	131.770	
5,200.00	5,191.38	4,982.74	4,976.02	11.67	11.21	-146.36	235.63	-2,744.11	2,894.72	2,872.43	22.29	129.888	
5,300.00	5,290.69	5,081.16	5,074.13	11.93	11.45	-146.44	238.27	-2,751.36	2,911.95	2,889.21	22.74	128.074	
5,400.00	5,390.01	5,179.57	5,172.24	12.18	11.69	-146.52	240.91	-2,758.61	2,929.19	2,906.00	23.19	126.323	
5,500.00	5,489.32	5,277.99	5,270.36	12.44	11.94	-146.61	243.55	-2,765.87	2,946.43	2,922.79	23.64	124.634	
5,600.00	5,588.63	5,376.40	5,368.47	12.70	12.18	-146.69	246.19	-2,773.12	2,963.68	2,939.59	24.09	123.003	
5,700.00	5,687.94	5,474.82	5,466.58	12.96	12.42	-146.76	248.83	-2,780.37	2,980.94	2,956.39	24.55	121.427	
5,800.00	5,787.25	5,573.24	5,564.69	13.22	12.66	-146.84	251.47	-2,787.63	2,998.20	2,973.20	25.00	119.904	
5,900.00	5,886.56	5,671.65	5,662.81	13.48	12.91	-146.92	254.11	-2,794.88	3,015.47	2,990.01	25.46	118.432	
6,000.00	5,985.88	5,770.07	5,760.92	13.75	13.15	-147.00	256.75	-2,802.13	3,032.74	3,006.82	25.92	117.008	
6,100.00	6,085.19	5,868.49	5,859.03	14.01	13.40	-147.07	259.39	-2,809.39	3,050.02	3,023.64	26.38	115.630	
6,200.00	6,184.50	5,966.90	5,957.15	14.28	13.64	-147.15	262.03	-2,816.64	3,067.30	3,040.47	26.84	114.296	
6,300.00	6,283.81	6,065.32	6,055.26	14.55	13.89	-147.22	264.67	-2,823.89	3,084.59	3,057.30	27.30	113.004	
6,400.00	6,383.12	6,163.73	6,153.37	14.81	14.13	-147.30	267.31	-2,831.15	3,101.88	3,074.13	27.76	111.753	
6,500.00	6,482.43	6,262.15	6,251.49	15.08	14.38	-147.37	269.94	-2,838.40	3,119.18	3,090.96	28.22	110.539	
6,600.00	6,581.75	6,360.57	6,349.60	15.35	14.62	-147.44	272.58	-2,845.65	3,136.49	3,107.81	28.68	109.363	
6,700.00	6,681.06	6,458.98	6,447.71	15.62	14.87	-147.51	275.22	-2,852.91	3,153.79	3,124.65	29.14	108.222	
6,800.00	6,780.37	6,557.40	6,545.83	15.90	15.12	-147.58	277.86	-2,860.16	3,171.10	3,141.50	29.60	107.114	
6,900.00	6,879.68	6,655.82	6,643.94	16.17	15.36	-147.65	280.50	-2,867.41	3,188.42	3,158.35	30.07	106.039	
7,000.00	6,978.99	6,754.23	6,742.05	16.44	15.61	-147.72	283.14	-2,874.67	3,205.74	3,175.21	30.53	104.995	
7,100.00	7,078.30	6,852.65	6,840.16	16.71	15.86	-147.79	285.78	-2,881.92	3,223.07	3,192.07	31.00	103.981	
7,200.00	7,177.61	6,951.06	6,938.28	16.99	16.10	-147.85	288.42	-2,889.17	3,240.40	3,208.94	31.46	102.995	
7,300.00	7,276.93	7,049.48	7,036.39	17.26	16.35	-147.92	291.06	-2,896.43	3,257.73	3,225.80	31.93	102.036	
7,400.00	7,376.24	7,147.90	7,134.50	17.54	16.60	-147.99	293.70	-2,903.68	3,275.07	3,242.68	32.39	101.104	
7,500.00	7,475.55	7,246.31	7,232.62	17.81	16.85	-148.05	296.34	-2,910.93	3,292.41	3,259.55	32.86	100.197	
7,600.00	7,574.86	7,344.73	7,330.73	18.09	17.09	-148.12	298.98	-2,918.18	3,309.76	3,276.43	33.33	99.315	
7,700.00	7,674.17	7,443.14	7,428.84	18.37	17.34	-148.18	301.62	-2,925.44	3,327.11	3,293.32	33.79	98.456	
7,800.00	7,773.48	7,541.56	7,526.96	18.64	17.59	-148.24	304.26	-2,932.69	3,344.46	3,310.20	34.26	97.619	
7,900.00	7,872.80	7,639.98	7,625.07	18.92	17.84	-148.30	306.89	-2,939.94	3,361.82	3,327.09	34.73	96.804	
8,000.00	7,972.11	7,738.39	7,723.18	19.20	18.09	-148.37	309.53	-2,947.20	3,379.18	3,343.99	35.20	96.010	
8,100.00	8,071.42	7,836.81	7,821.30	19.48	18.34	-148.43	312.17	-2,954.45	3,396.55	3,360.89	35.66	95.236	
8,200.00	8,170.73	7,935.23	7,919.41	19.76	18.58	-148.49	314.81	-2,961.70	3,413.92	3,377.79	36.13	94.481	
8,300.00	8,270.04	8,033.64	8,017.52	20.04	18.83	-148.55	317.45	-2,968.96	3,431.29	3,394.69	36.60	93.745	
8,400.00	8,369.35	8,132.06	8,115.63	20.32	19.08	-148.61	320.09	-2,976.21	3,448.67	3,411.60	37.07	93.027	
8,500.00	8,468.66	8,230.47	8,213.75	20.60	19.33	-148.67	322.73	-2,983.46	3,466.05	3,428.51	37.54	92.326	
8,600.00	8,567.98	8,328.89	8,311.86	20.88	19.58	-148.72	325.37	-2,990.72	3,483.43	3,445.42	38.01	91.642	
8,700.00	8,667.29	8,427.31	8,409.97	21.16	19.83	-148.78	328.01	-2,997.97	3,500.82	3,462.34	38.48	90.974	
8,800.00	8,766.60	8,525.72	8,508.09	21.44	20.08	-148.84	330.65	-3,005.22	3,518.21	3,479.26	38.95	90.322	
8,900.00	8,865.91	8,624.14	8,606.20	21.72	20.33	-148.89	333.29	-3,012.48	3,535.61	3,496.18	39.42	89.685	
9,000.00	8,965.22	8,722.56	8,704.31	22.00	20.58	-148.95	335.93	-3,019.73	3,553.00	3,513.11	39.89	89.062	
9,100.00	9,064.53	8,820.97	8,802.43	22.28	20.83	-149.01	338.57	-3,026.98	3,570.40	3,530.04	40.36	88.454	
9,200.00	9,163.85	8,919.39	8,900.54	22.57	21.08	-149.06	341.21	-3,034.24	3,587.81	3,546.97	40.84	87.859	
9,300.00	9,263.16	9,017.80	8,998.65	22.85	21.33	-149.11	343.85	-3,041.49	3,605.22	3,563.91	41.31	87.277	
9,400.00	9,362.47	9,116.22	9,096.77	23.13	21.58	-149.17	346.48	-3,048.74	3,622.63	3,580.85	41.78	86.708	
9,500.00	9,461.78	9,214.64	9,194.88	23.41	21.83	-149.22	349.12	-3,056.00	3,640.04	3,597.79	42.25	86.151	
9,600.00	9,561.09	9,313.05	9,292.99	23.70	22.08	-149.27	351.76	-3,063.25	3,657.45	3,614.73	42.72	85.606	
9,700.00	9,660.40	9,411.47	9,391.10	23.98	22.33	-149.33	354.40	-3,070.50	3,674.87	3,631.68	43.20	85.073	
9,800.00	9,759.71	9,509.89	9,489.22	24.26	22.58	-149.38	357.04	-3,077.75	3,692.30	3,648.63	43.67	84.551	
9,900.00	9,859.03	9,608.30	9,587.33	24.55	22.83	-149.43	359.68	-3,085.01	3,709.72	3,665.58	44.14	84.040	
10,000.00	9,958.34	9,706.72	9,685.44	24.83	23.08	-149.48	362.32	-3,092.26	3,727.15	3,682.53	44.62	83.540	
10,100.00	10,057.65	9,805.13	9,783.56	25.11	23.33	-149.53	364.96	-3,099.51	3,744.58	3,699.49	45.09	83.049	

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

LEAM Drilling Systems LLC

Anticollision Report

Company: Devon Energy
 Project: Lea County, NM (NAD-83)
 Reference Site: Fighting Okra 18-19 Fed
 Site Error: 0.00 usft
 Reference Well: 85H
 Well Error: 0.00 usft
 Reference Wellbore: OH
 Reference Design: Plan #1

Local Co-ordinate Reference: Well 85H
 TVD Reference: 3369.1' GE + 25' KB @ 3394.10usft
 MD Reference: 3369.1' GE + 25' KB @ 3394.10usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Output errors are at: 2.00 sigma
 Database: EDM 5000.1 Multi User Db
 Offset TVD Reference: Offset Datum

Offset Design Fighting Okra 18-19 Fed - 2H - OH - Plan #1													Offset Site Error: 0.00 usft
Survey Program: 0-LEAM MWD+HDGM													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance				Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
10,200.00	10,156.96	9,903.55	9,881.67	25.40	23.58	-149.58	367.60	-3,106.77	3,762.01	3,716.45	45.56	82.569	
10,300.00	10,256.27	10,001.97	9,979.78	25.68	23.83	-149.63	370.24	-3,114.02	3,779.45	3,733.41	46.04	82.098	
10,400.00	10,355.58	10,100.38	10,077.90	25.97	24.08	-149.68	372.88	-3,121.27	3,796.89	3,750.38	46.51	81.637	
10,500.00	10,454.90	10,198.80	10,176.01	26.25	24.33	-149.73	375.52	-3,128.53	3,814.33	3,767.35	46.98	81.184	
10,600.00	10,554.21	10,297.21	10,274.12	26.54	24.58	-149.77	378.16	-3,135.78	3,831.77	3,784.32	47.46	80.741	
10,700.00	10,653.52	10,395.63	10,372.24	26.82	24.83	-149.82	380.80	-3,143.03	3,849.22	3,801.29	47.93	80.306	
10,800.00	10,752.83	10,494.05	10,470.35	27.11	25.08	-149.87	383.43	-3,150.29	3,866.67	3,818.26	48.41	79.879	
10,900.00	10,852.14	10,592.46	10,568.46	27.39	25.33	-149.92	386.07	-3,157.54	3,884.12	3,835.24	48.88	79.460	
11,000.00	10,951.45	10,690.88	10,666.57	27.68	25.58	-149.96	388.71	-3,164.79	3,901.58	3,852.22	49.36	79.049	
11,100.00	11,050.77	10,789.30	10,764.69	27.96	25.83	-150.01	391.35	-3,172.05	3,919.03	3,869.20	49.83	78.646	
11,178.62	11,128.84	10,866.67	10,841.82	28.19	26.03	-150.04	393.43	-3,177.75	3,932.76	3,882.55	50.20	78.334	
11,200.00	11,150.08	10,887.72	10,862.81	28.24	26.09	-150.07	393.99	-3,179.30	3,936.46	3,886.16	50.30	78.257	
11,300.00	11,249.53	10,986.33	10,961.12	28.46	26.34	-150.19	396.64	-3,186.57	3,952.85	3,902.12	50.73	77.821	
11,400.00	11,349.15	11,101.92	11,076.35	28.66	26.62	-150.29	399.72	-3,195.03	3,967.74	3,916.54	51.19	77.503	
11,500.00	11,448.90	11,385.35	11,359.41	28.86	27.14	-150.42	404.49	-3,208.15	3,978.42	3,926.46	51.97	76.559	
11,600.00	11,548.76	11,576.61	11,550.66	29.05	27.47	-150.51	405.08	-3,209.77	3,983.57	3,931.06	52.50	75.871	
11,700.00	11,648.70	11,676.55	11,650.60	29.22	27.66	-150.55	405.08	-3,209.77	3,986.62	3,933.74	52.89	75.378	
11,800.00	11,748.68	11,776.53	11,750.58	29.39	27.86	-150.57	405.08	-3,209.77	3,988.16	3,934.89	53.27	74.866	
11,851.32	11,800.00	11,827.85	11,801.90	29.47	27.97	-90.66	405.08	-3,209.77	3,988.36	3,934.90	53.47	74.595	
11,900.00	11,848.68	11,876.53	11,850.58	29.56	28.06	-90.66	405.08	-3,209.77	3,988.36	3,934.70	53.66	74.326	
12,000.00	11,948.68	11,976.53	11,950.58	29.75	28.26	-90.66	405.08	-3,209.77	3,988.36	3,934.29	54.07	73.756	
12,100.00	12,048.68	12,076.53	12,050.58	29.94	28.46	-90.66	405.08	-3,209.77	3,988.36	3,933.87	54.49	73.195	
12,200.00	12,148.68	12,170.23	12,144.08	30.14	28.62	-90.73	400.41	-3,209.77	3,988.43	3,933.57	54.86	72.703	
12,300.00	12,248.68	12,258.77	12,230.68	30.33	28.74	-90.99	382.39	-3,209.77	3,988.74	3,933.56	55.18	72.285	
12,392.36	12,341.04	12,334.17	12,301.50	30.51	28.83	-91.35	356.69	-3,209.77	3,989.43	3,933.99	55.44	71.955	
12,400.00	12,348.68	12,340.09	12,306.91	30.52	28.84	88.60	354.28	-3,209.77	3,989.51	3,934.05	55.46	71.931	
12,450.00	12,398.58	12,378.38	12,341.25	30.59	28.88	88.33	337.36	-3,209.77	3,990.08	3,934.51	55.57	71.803	
12,500.00	12,448.05	12,415.97	12,373.79	30.65	28.91	88.07	318.56	-3,209.77	3,990.70	3,935.05	55.66	71.700	
12,550.00	12,496.70	12,450.00	12,402.13	30.70	28.94	87.83	299.73	-3,209.77	3,991.38	3,935.65	55.73	71.621	
12,600.00	12,544.16	12,489.37	12,433.46	30.73	28.97	87.58	275.90	-3,209.77	3,992.07	3,936.28	55.79	71.555	
12,650.00	12,590.08	12,525.32	12,460.57	30.75	29.00	87.35	252.30	-3,209.77	3,992.78	3,936.94	55.84	71.507	
12,700.00	12,634.11	12,560.87	12,485.87	30.76	29.03	87.13	227.34	-3,209.77	3,993.49	3,937.61	55.88	71.469	
12,750.00	12,675.90	12,600.00	12,511.88	30.75	29.06	86.92	198.10	-3,209.77	3,994.18	3,938.26	55.92	71.432	
12,800.00	12,715.15	12,630.93	12,530.98	30.74	29.08	86.75	173.79	-3,209.77	3,994.83	3,938.88	55.95	71.403	
12,850.00	12,751.55	12,665.54	12,550.77	30.73	29.11	86.59	145.39	-3,209.77	3,995.44	3,939.46	55.98	71.367	
12,900.00	12,784.82	12,700.00	12,568.73	30.70	29.14	86.45	115.99	-3,209.77	3,995.99	3,939.97	56.03	71.324	
12,950.00	12,814.72	12,734.13	12,584.75	30.68	29.17	86.33	85.86	-3,209.77	3,996.48	3,940.40	56.08	71.264	
13,000.00	12,841.01	12,768.18	12,598.91	30.65	29.21	86.22	54.90	-3,209.77	3,996.88	3,940.74	56.15	71.187	
13,050.00	12,863.50	12,800.00	12,610.47	30.62	29.25	86.15	25.26	-3,209.77	3,997.21	3,940.99	56.22	71.096	
13,100.00	12,882.01	12,835.95	12,621.51	30.60	29.30	86.09	-8.95	-3,209.77	3,997.44	3,941.11	56.33	70.966	
13,150.00	12,896.40	12,869.74	12,629.92	30.59	29.36	86.05	-41.67	-3,209.77	3,997.58	3,941.13	56.45	70.814	
13,200.00	12,906.57	12,900.00	12,635.81	30.59	29.43	86.04	-71.35	-3,209.77	3,997.62	3,941.04	56.58	70.648	
13,250.00	12,912.43	12,937.26	12,640.89	30.61	29.51	86.06	-108.25	-3,209.77	3,997.57	3,940.80	56.76	70.426	
13,292.36	12,914.00	12,965.88	12,643.15	30.63	29.59	86.09	-136.78	-3,209.77	3,997.44	3,940.52	56.92	70.228	
13,300.00	12,914.00	12,971.05	12,643.41	30.64	29.60	86.09	-141.94	-3,209.77	3,997.42	3,940.46	56.95	70.186	
13,400.00	12,914.00	13,058.71	12,644.00	30.78	29.88	86.10	-229.60	-3,209.77	3,997.36	3,939.86	57.50	69.518	
13,404.47	12,914.00	13,063.19	12,644.00	30.79	29.90	86.10	-234.07	-3,209.77	3,997.36	3,939.83	57.53	69.480	
13,500.00	12,914.00	13,158.71	12,644.00	31.01	30.29	86.10	-329.60	-3,209.77	3,997.36	3,939.11	58.25	68.622	
13,600.00	12,914.00	13,258.71	12,644.00	31.35	30.78	86.10	-429.60	-3,209.77	3,997.36	3,938.19	59.17	67.555	
13,700.00	12,914.00	13,358.71	12,644.00	31.78	31.35	86.10	-529.60	-3,209.77	3,997.36	3,937.10	60.26	66.340	
13,800.00	12,914.00	13,458.71	12,644.00	32.29	32.01	86.10	-629.60	-3,209.77	3,997.36	3,935.87	61.49	65.005	
13,900.00	12,914.00	13,558.71	12,644.00	32.89	32.73	86.10	-729.60	-3,209.77	3,997.36	3,934.48	62.87	63.577	

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

LEAM Drilling Systems LLC

Anticollision Report

Company: Devon Energy
 Project: Lea County, NM (NAD-83)
 Reference Site: Fighting Okra 18-19 Fed
 Site Error: 0.00 usft
 Reference Well: 85H
 Well Error: 0.00 usft
 Reference Wellbore: OH
 Reference Design: Plan #1

Local Co-ordinate Reference: Well 85H
 TVD Reference: 3369.1' GE + 25' KB @ 3394.10usft
 MD Reference: 3369.1' GE + 25' KB @ 3394.10usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Output errors are at: 2.00 sigma
 Database: EDM 5000.1 Multi User Db
 Offset TVD Reference: Offset Datum

Offset Design Fighting Okra 18-19 Fed - 2H - OH - Plan #1												Offset Site Error:	0.00 usft
Survey Program: 0-LEAM MWD+HDGM												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	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)					
14,000.00	12,914.00	13,658.71	12,644.00	33.57	33.51	86.10	-829.60	-3,209.77	3,997.36	3,932.97	64.39	62.078	
14,100.00	12,914.00	13,758.71	12,644.00	34.31	34.36	86.10	-929.60	-3,209.77	3,997.36	3,931.32	66.04	60.533	
14,200.00	12,914.00	13,858.71	12,644.00	35.11	35.26	86.10	-1,029.60	-3,209.77	3,997.36	3,929.56	67.80	58.960	
14,300.00	12,914.00	13,958.71	12,644.00	35.97	36.21	86.10	-1,129.60	-3,209.77	3,997.36	3,927.69	69.67	57.378	
14,400.00	12,914.00	14,058.71	12,644.00	36.89	37.21	86.10	-1,229.60	-3,209.77	3,997.36	3,925.72	71.64	55.801	
14,500.00	12,914.00	14,158.71	12,644.00	37.85	38.26	86.10	-1,329.60	-3,209.77	3,997.36	3,923.66	73.70	54.240	
14,600.00	12,914.00	14,258.71	12,644.00	38.86	39.34	86.10	-1,429.60	-3,209.77	3,997.36	3,921.52	75.84	52.706	
14,700.00	12,914.00	14,358.71	12,644.00	39.91	40.47	86.10	-1,529.60	-3,209.77	3,997.36	3,919.29	78.07	51.205	
14,800.00	12,914.00	14,458.71	12,644.00	41.00	41.62	86.10	-1,629.60	-3,209.77	3,997.36	3,917.00	80.36	49.743	
14,900.00	12,914.00	14,558.71	12,644.00	42.12	42.81	86.10	-1,729.60	-3,209.77	3,997.36	3,914.64	82.72	48.325	
15,000.00	12,914.00	14,658.71	12,644.00	43.28	44.02	86.10	-1,829.60	-3,209.77	3,997.36	3,912.22	85.14	46.952	
15,100.00	12,914.00	14,758.71	12,644.00	44.46	45.27	86.10	-1,929.60	-3,209.77	3,997.36	3,909.75	87.61	45.626	
15,200.00	12,914.00	14,858.71	12,644.00	45.68	46.53	86.10	-2,029.60	-3,209.77	3,997.36	3,907.22	90.14	44.348	
15,300.00	12,914.00	14,958.71	12,644.00	46.92	47.82	86.10	-2,129.60	-3,209.77	3,997.36	3,904.65	92.71	43.119	
15,400.00	12,914.00	15,058.71	12,644.00	48.18	49.13	86.10	-2,229.60	-3,209.77	3,997.36	3,902.04	95.32	41.937	
15,500.00	12,914.00	15,158.71	12,644.00	49.46	50.46	86.10	-2,329.60	-3,209.77	3,997.36	3,899.39	97.97	40.802	
15,600.00	12,914.00	15,258.71	12,644.00	50.77	51.80	86.10	-2,429.60	-3,209.77	3,997.36	3,896.70	100.66	39.713	
15,700.00	12,914.00	15,358.71	12,644.00	52.09	53.17	86.10	-2,529.60	-3,209.77	3,997.36	3,893.98	103.38	38.668	
15,800.00	12,914.00	15,458.71	12,644.00	53.43	54.54	86.10	-2,629.60	-3,209.77	3,997.36	3,891.23	106.13	37.665	
15,900.00	12,914.00	15,558.71	12,644.00	54.78	55.93	86.10	-2,729.60	-3,209.77	3,997.36	3,888.45	108.91	36.704	
16,000.00	12,914.00	15,658.71	12,644.00	56.15	57.34	86.10	-2,829.60	-3,209.77	3,997.36	3,885.64	111.71	35.782	
16,100.00	12,914.00	15,758.71	12,644.00	57.54	58.75	86.10	-2,929.60	-3,209.77	3,997.36	3,882.81	114.54	34.898	
16,200.00	12,914.00	15,858.71	12,644.00	58.94	60.18	86.10	-3,029.60	-3,209.77	3,997.36	3,879.96	117.40	34.050	
16,300.00	12,914.00	15,958.71	12,644.00	60.34	61.61	86.10	-3,129.60	-3,209.77	3,997.36	3,877.09	120.27	33.237	
16,400.00	12,914.00	16,058.71	12,644.00	61.76	63.06	86.10	-3,229.60	-3,209.77	3,997.36	3,874.20	123.16	32.456	
16,500.00	12,914.00	16,158.71	12,644.00	63.19	64.52	86.10	-3,329.60	-3,209.77	3,997.36	3,871.29	126.07	31.707	
16,600.00	12,914.00	16,258.71	12,644.00	64.63	65.98	86.10	-3,429.60	-3,209.77	3,997.36	3,868.36	129.00	30.987	
16,700.00	12,914.00	16,358.71	12,644.00	66.08	67.45	86.10	-3,529.60	-3,209.77	3,997.36	3,865.41	131.94	30.296	
16,800.00	12,914.00	16,458.71	12,644.00	67.54	68.93	86.10	-3,629.60	-3,209.77	3,997.36	3,862.46	134.90	29.632	
16,900.00	12,914.00	16,558.71	12,644.00	69.01	70.41	86.10	-3,729.60	-3,209.77	3,997.36	3,859.49	137.87	28.993	
17,000.00	12,914.00	16,658.71	12,644.00	70.48	71.91	86.10	-3,829.60	-3,209.77	3,997.36	3,856.50	140.86	28.379	
17,100.00	12,914.00	16,758.71	12,644.00	71.96	73.41	86.10	-3,929.60	-3,209.77	3,997.36	3,853.50	143.85	27.788	
17,200.00	12,914.00	16,858.71	12,644.00	73.44	74.91	86.10	-4,029.60	-3,209.77	3,997.36	3,850.50	146.86	27.218	
17,300.00	12,914.00	16,958.71	12,644.00	74.94	76.42	86.10	-4,129.60	-3,209.77	3,997.36	3,847.48	149.88	26.670	
17,400.00	12,914.00	17,058.71	12,644.00	76.43	77.93	86.10	-4,229.60	-3,209.77	3,997.36	3,844.45	152.91	26.142	
17,500.00	12,914.00	17,158.71	12,644.00	77.94	79.45	86.10	-4,329.60	-3,209.77	3,997.36	3,841.41	155.95	25.633	
17,600.00	12,914.00	17,258.71	12,644.00	79.45	80.98	86.10	-4,429.60	-3,209.77	3,997.36	3,838.36	159.00	25.141	
17,700.00	12,914.00	17,358.71	12,644.00	80.96	82.50	86.10	-4,529.60	-3,209.77	3,997.36	3,835.31	162.05	24.667	
17,800.00	12,914.00	17,458.71	12,644.00	82.48	84.03	86.10	-4,629.60	-3,209.77	3,997.36	3,832.24	165.11	24.210	
17,900.00	12,914.00	17,558.71	12,644.00	84.00	85.57	86.10	-4,729.60	-3,209.77	3,997.36	3,829.17	168.19	23.768	
18,000.00	12,914.00	17,658.71	12,644.00	85.53	87.11	86.10	-4,829.60	-3,209.77	3,997.36	3,826.09	171.26	23.340	
18,100.00	12,914.00	17,758.71	12,644.00	87.06	88.65	86.10	-4,929.60	-3,209.77	3,997.36	3,823.01	174.35	22.927	
18,200.00	12,914.00	17,858.71	12,644.00	88.59	90.20	86.10	-5,029.60	-3,209.77	3,997.36	3,819.92	177.44	22.528	
18,300.00	12,914.00	17,958.71	12,644.00	90.13	91.75	86.10	-5,129.60	-3,209.77	3,997.36	3,816.82	180.54	22.142	
18,400.00	12,914.00	18,058.71	12,644.00	91.67	93.30	86.10	-5,229.60	-3,209.77	3,997.36	3,813.72	183.64	21.767	
18,500.00	12,914.00	18,158.71	12,644.00	93.21	94.85	86.10	-5,329.60	-3,209.77	3,997.36	3,810.61	186.75	21.405	
18,600.00	12,914.00	18,258.71	12,644.00	94.76	96.41	86.10	-5,429.60	-3,209.77	3,997.36	3,807.50	189.86	21.054	
18,700.00	12,914.00	18,358.71	12,644.00	96.31	97.97	86.10	-5,529.60	-3,209.77	3,997.36	3,804.38	192.98	20.714	
18,800.00	12,914.00	18,458.71	12,644.00	97.86	99.53	86.10	-5,629.60	-3,209.77	3,997.36	3,801.26	196.10	20.384	
18,900.00	12,914.00	18,558.71	12,644.00	99.42	101.10	86.10	-5,729.60	-3,209.77	3,997.36	3,798.13	199.23	20.064	
19,000.00	12,914.00	18,658.71	12,644.00	100.98	102.66	86.10	-5,829.60	-3,209.77	3,997.36	3,795.00	202.36	19.753	
19,100.00	12,914.00	18,758.71	12,644.00	102.54	104.23	86.10	-5,929.60	-3,209.77	3,997.36	3,791.86	205.50	19.452	

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

LEAM Drilling Systems LLC

Anticollision Report

Company: Devon Energy
Project: Lea County, NM (NAD-83)
Reference Site: Fighting Okra 18-19 Fed
Site Error: 0.00 usft
Reference Well: 85H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Plan #1

Local Co-ordinate Reference: Well 85H
TVD Reference: 3369.1' GE + 25' KB @ 3394.10usft
MD Reference: 3369.1' GE + 25' KB @ 3394.10usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDM 5000.1 Multi User Db
Offset TVD Reference: Offset Datum

Offset Design Fighting Okra 18-19 Fed - 2H - OH - Plan #1														Offset Site Error:	0.00 usft
Survey Program: 0-LEAM MWD+HDGM														Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance				Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
19,200.00	12,914.00	18,858.71	12,644.00	104.10	105.80	86.10	-6,029.60	-3,209.77	3,997.36	3,788.72	208.64	19.159			
19,300.00	12,914.00	18,958.71	12,644.00	105.67	107.37	86.10	-6,129.60	-3,209.77	3,997.36	3,785.58	211.78	18.875			
19,400.00	12,914.00	19,058.71	12,644.00	107.23	108.95	86.10	-6,229.60	-3,209.77	3,997.36	3,782.43	214.93	18.599			
19,500.00	12,914.00	19,158.71	12,644.00	108.80	110.52	86.10	-6,329.60	-3,209.77	3,997.36	3,779.28	218.08	18.330			
19,600.00	12,914.00	19,258.71	12,644.00	110.37	112.10	86.10	-6,429.60	-3,209.77	3,997.36	3,776.13	221.23	18.069			
19,700.00	12,914.00	19,358.71	12,644.00	111.94	113.68	86.10	-6,529.60	-3,209.77	3,997.36	3,772.97	224.39	17.814			
19,800.00	12,914.00	19,458.71	12,644.00	113.52	115.26	86.10	-6,629.60	-3,209.77	3,997.36	3,769.81	227.55	17.567			
19,900.00	12,914.00	19,558.71	12,644.00	115.09	116.85	86.10	-6,729.60	-3,209.77	3,997.36	3,766.65	230.71	17.326			
20,000.00	12,914.00	19,658.71	12,644.00	116.67	118.43	86.10	-6,829.60	-3,209.77	3,997.36	3,763.48	233.88	17.092			
20,100.00	12,914.00	19,758.71	12,644.00	118.25	120.01	86.10	-6,929.60	-3,209.77	3,997.36	3,760.31	237.05	16.863			
20,200.00	12,914.00	19,858.71	12,644.00	119.83	121.60	86.10	-7,029.60	-3,209.77	3,997.36	3,757.14	240.22	16.641			
20,300.00	12,914.00	19,958.71	12,644.00	121.41	123.19	86.10	-7,129.60	-3,209.77	3,997.36	3,753.97	243.39	16.424			
20,400.00	12,914.00	20,058.71	12,644.00	123.00	124.78	86.10	-7,229.60	-3,209.77	3,997.36	3,750.79	246.57	16.212			
20,500.00	12,914.00	20,158.71	12,644.00	124.58	126.37	86.10	-7,329.60	-3,209.77	3,997.36	3,747.62	249.74	16.006			
20,600.00	12,914.00	20,258.71	12,644.00	126.17	127.96	86.10	-7,429.60	-3,209.77	3,997.36	3,744.44	252.92	15.805			
20,700.00	12,914.00	20,358.71	12,644.00	127.75	129.55	86.10	-7,529.60	-3,209.77	3,997.36	3,741.25	256.10	15.608			
20,800.00	12,914.00	20,458.71	12,644.00	129.34	131.14	86.10	-7,629.60	-3,209.77	3,997.36	3,738.07	259.29	15.417			
20,900.00	12,914.00	20,558.71	12,644.00	130.93	132.74	86.10	-7,729.60	-3,209.77	3,997.36	3,734.88	262.47	15.230			
21,000.00	12,914.00	20,658.71	12,644.00	132.52	134.33	86.10	-7,829.60	-3,209.77	3,997.36	3,731.70	265.66	15.047			
21,100.00	12,914.00	20,758.71	12,644.00	134.11	135.93	86.10	-7,929.60	-3,209.77	3,997.36	3,728.51	268.85	14.868			
21,200.00	12,914.00	20,858.71	12,644.00	135.71	137.53	86.10	-8,029.60	-3,209.77	3,997.36	3,725.32	272.04	14.694			
21,300.00	12,914.00	20,958.71	12,644.00	137.30	139.12	86.10	-8,129.60	-3,209.77	3,997.36	3,722.12	275.24	14.523			
21,400.00	12,914.00	21,058.71	12,644.00	138.90	140.72	86.10	-8,229.60	-3,209.77	3,997.36	3,718.93	278.43	14.357			
21,500.00	12,914.00	21,158.71	12,644.00	140.49	142.32	86.10	-8,329.60	-3,209.77	3,997.36	3,715.73	281.63	14.194			
21,600.00	12,914.00	21,258.71	12,644.00	142.09	143.92	86.10	-8,429.60	-3,209.77	3,997.36	3,712.53	284.82	14.034			
21,700.00	12,914.00	21,358.71	12,644.00	143.68	145.52	86.10	-8,529.60	-3,209.77	3,997.36	3,709.34	288.02	13.879			
21,800.00	12,914.00	21,458.71	12,644.00	145.28	147.13	86.10	-8,629.60	-3,209.77	3,997.36	3,706.13	291.22	13.726			
21,900.00	12,914.00	21,558.71	12,644.00	146.88	148.73	86.10	-8,729.60	-3,209.77	3,997.36	3,702.93	294.43	13.577			
22,000.00	12,914.00	21,658.71	12,644.00	148.48	150.33	86.10	-8,829.60	-3,209.77	3,997.36	3,699.73	297.63	13.431			
22,100.00	12,914.00	21,758.71	12,644.00	150.08	151.94	86.10	-8,929.60	-3,209.77	3,997.36	3,696.53	300.83	13.288			
22,200.00	12,914.00	21,858.71	12,644.00	151.68	153.54	86.10	-9,029.60	-3,209.77	3,997.36	3,693.32	304.04	13.148			
22,300.00	12,914.00	21,958.71	12,644.00	153.28	155.15	86.10	-9,129.60	-3,209.77	3,997.36	3,690.11	307.25	13.010			
22,400.00	12,914.00	22,058.71	12,644.00	154.89	156.75	86.10	-9,229.60	-3,209.77	3,997.36	3,686.90	310.45	12.876			
22,500.00	12,914.00	22,158.71	12,644.00	156.49	158.36	86.10	-9,329.60	-3,209.77	3,997.36	3,683.70	313.66	12.744			
22,600.00	12,914.00	22,258.71	12,644.00	158.09	159.96	86.10	-9,429.60	-3,209.77	3,997.36	3,680.49	316.87	12.615			
22,700.00	12,914.00	22,358.71	12,644.00	159.70	161.57	86.10	-9,529.60	-3,209.77	3,997.36	3,677.27	320.08	12.488			
22,800.00	12,914.00	22,458.71	12,644.00	161.30	163.18	86.10	-9,629.60	-3,209.77	3,997.36	3,674.06	323.30	12.364			
22,867.23	12,914.00	22,525.95	12,644.00	162.38	164.26	86.10	-9,696.83	-3,209.77	3,997.36	3,671.90	325.46	12.282 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
Project: Lea County, NM (NAD-83)
Reference Site: Fighting Okra 18-19 Fed
Site Error: 0.00 usft
Reference Well: 85H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Plan #1

Local Co-ordinate Reference: Well 85H
TVD Reference: 3369.1' GE + 25' KB @ 3394.10usft
MD Reference: 3369.1' GE + 25' KB @ 3394.10usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDM 5000.1 Multi User Db
Offset.TVD Reference: Offset Datum

Offset Design Fighting Okra 18-19 Fed - 3H - OH - Plan #1												Offset Site Error:	0.00 usft
Survey Program: 0-LEAM MWD+HDGM												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	3.10	3.10	0.00	0.00	-85.96	175.83	-2,487.72	2,493.93				
100.00	100.00	103.10	103.10	0.08	0.09	-85.96	175.83	-2,487.72	2,493.93	2,493.75	0.18	N/A	
200.00	200.00	203.10	203.10	0.31	0.32	-85.96	175.83	-2,487.72	2,493.93	2,493.30	0.63	3,989.806	
300.00	300.00	303.10	303.10	0.53	0.54	-85.96	175.83	-2,487.72	2,493.93	2,492.85	1.07	2,320.780	
400.00	400.00	403.10	403.10	0.76	0.77	-85.96	175.83	-2,487.72	2,493.93	2,492.40	1.52	1,636.285	
500.00	500.00	503.10	503.10	0.98	0.99	-85.96	175.83	-2,487.72	2,493.93	2,491.95	1.97	1,263.598	
600.00	600.00	603.10	603.10	1.21	1.22	-85.96	175.83	-2,487.72	2,493.93	2,491.50	2.42	1,029.186	
700.00	700.00	703.10	703.10	1.43	1.44	-85.96	175.83	-2,487.72	2,493.93	2,491.05	2.87	868.137	
800.00	800.00	803.10	803.10	1.66	1.66	-85.96	175.83	-2,487.72	2,493.93	2,490.60	3.32	750.670	
900.00	900.00	903.10	903.10	1.88	1.89	-85.96	175.83	-2,487.72	2,493.93	2,490.15	3.77	661.203	
1,000.00	1,000.00	1,003.10	1,003.10	2.11	2.11	-85.96	175.83	-2,487.72	2,493.93	2,489.70	4.22	590.791	
1,100.00	1,100.00	1,103.10	1,103.10	2.33	2.34	-85.96	175.83	-2,487.72	2,493.93	2,489.26	4.67	533.933	
1,200.00	1,200.00	1,203.10	1,203.10	2.56	2.56	-85.96	175.83	-2,487.72	2,493.93	2,488.81	5.12	487.057	
1,300.00	1,300.00	1,303.10	1,303.10	2.78	2.79	-85.96	175.83	-2,487.72	2,493.93	2,488.36	5.57	447.748	
1,400.00	1,400.00	1,403.10	1,403.10	3.01	3.01	-85.96	175.83	-2,487.72	2,493.93	2,487.91	6.02	414.311	
1,500.00	1,500.00	1,503.10	1,503.10	3.23	3.24	-85.96	175.83	-2,487.72	2,493.93	2,487.46	6.47	385.520	
1,600.00	1,600.00	1,603.10	1,603.10	3.46	3.46	-85.96	175.83	-2,487.72	2,493.93	2,487.01	6.92	360.471	
1,700.00	1,700.00	1,703.10	1,703.10	3.68	3.69	-85.96	175.83	-2,487.72	2,493.93	2,486.56	7.37	338.478	
1,800.00	1,800.00	1,803.10	1,803.10	3.91	3.91	-85.96	175.83	-2,487.72	2,493.93	2,486.11	7.82	319.015	
1,900.00	1,900.00	1,903.10	1,903.10	4.13	4.14	-85.96	175.83	-2,487.72	2,493.93	2,485.66	8.27	301.668	
2,000.00	2,000.00	2,003.10	2,003.10	4.35	4.36	-85.96	175.83	-2,487.72	2,493.93	2,485.21	8.72	286.111	
2,100.00	2,100.00	2,103.10	2,103.10	4.58	4.59	-85.96	175.83	-2,487.72	2,493.93	2,484.76	9.17	272.079	
2,200.00	2,200.00	2,203.10	2,203.10	4.80	4.81	-85.96	175.83	-2,487.72	2,493.93	2,484.31	9.62	259.359	
2,300.00	2,300.00	2,303.10	2,303.10	5.03	5.04	-85.96	175.83	-2,487.72	2,493.93	2,483.86	10.07	247.776	
2,400.00	2,400.00	2,403.10	2,403.10	5.25	5.26	-85.96	175.83	-2,487.72	2,493.93	2,483.41	10.51	237.183	
2,500.00	2,500.00	2,503.10	2,503.10	5.48	5.49	-85.96	175.83	-2,487.72	2,493.93	2,482.96	10.96	227.459	
2,600.00	2,600.00	2,603.10	2,603.10	5.70	5.71	-85.96	175.83	-2,487.72	2,493.93	2,482.51	11.41	218.500	
2,700.00	2,700.00	2,703.10	2,703.10	5.93	5.94	-85.96	175.83	-2,487.72	2,493.93	2,482.06	11.86	210.221	
2,800.00	2,800.00	2,803.10	2,803.10	6.15	6.16	-85.96	175.83	-2,487.72	2,493.93	2,481.61	12.31	202.546	
2,900.00	2,900.00	2,903.10	2,903.10	6.38	6.38	-85.96	175.83	-2,487.72	2,493.93	2,481.16	12.76	195.411	
3,000.00	3,000.00	3,005.48	3,005.48	6.60	6.61	-85.96	175.83	-2,487.72	2,493.92	2,480.71	13.22	188.698	
3,100.00	3,100.00	3,182.12	3,182.12	6.83	6.98	-85.95	175.83	-2,484.82	2,492.29	2,478.50	13.80	180.660	
3,200.00	3,200.00	3,358.49	3,358.25	7.05	7.33	-85.94	175.83	-2,476.51	2,487.59	2,473.23	14.35	173.327	
3,300.00	3,300.00	3,499.04	3,498.43	7.28	7.62	-85.92	175.83	-2,466.19	2,480.15	2,465.31	14.84	167.087	
3,400.00	3,400.00	3,598.73	3,597.80	7.50	7.84	-85.91	175.83	-2,458.32	2,472.27	2,457.00	15.27	161.902	
3,500.00	3,500.00	3,698.42	3,697.18	7.73	8.05	-85.90	175.83	-2,450.44	2,464.40	2,448.70	15.70	156.983	
3,600.00	3,600.00	3,798.16	3,796.61	7.94	8.27	-145.84	175.83	-2,442.57	2,457.24	2,441.12	16.12	152.428	
3,700.00	3,699.96	3,897.99	3,896.13	8.16	8.48	-145.90	175.83	-2,434.69	2,451.53	2,434.99	16.54	148.241	
3,800.00	3,799.86	3,997.88	3,995.71	8.37	8.71	-145.97	175.83	-2,426.80	2,447.26	2,430.30	16.96	144.327	
3,900.00	3,899.68	4,097.80	4,095.31	8.58	8.93	-146.05	175.83	-2,418.91	2,444.44	2,427.06	17.38	140.667	
4,000.00	3,999.37	4,197.71	4,194.92	8.80	9.15	-146.15	175.83	-2,411.02	2,443.07	2,425.27	17.80	137.244	
4,044.03	4,043.21	4,241.69	4,238.76	8.90	9.25	-146.19	175.83	-2,407.55	2,442.93	2,424.94	17.99	135.806 CC	
4,100.00	4,098.90	4,297.60	4,294.49	9.02	9.38	-146.26	175.83	-2,403.14	2,443.16	2,424.93	18.23	134.043	
4,172.70	4,171.16	4,370.17	4,366.84	9.19	9.55	-146.35	175.83	-2,397.41	2,444.14	2,425.60	18.54	131.846	
4,200.00	4,198.27	4,397.42	4,394.00	9.25	9.61	-146.39	175.83	-2,395.26	2,444.65	2,426.00	18.66	131.045	
4,300.00	4,297.58	4,497.22	4,493.49	9.48	9.84	-146.53	175.83	-2,387.38	2,446.55	2,427.46	19.09	128.185	
4,400.00	4,396.89	4,597.02	4,592.98	9.71	10.07	-146.67	175.83	-2,379.50	2,448.46	2,428.94	19.52	125.436	
4,500.00	4,496.20	4,696.82	4,692.47	9.95	10.30	-146.81	175.83	-2,371.62	2,450.38	2,430.42	19.96	122.792	
4,600.00	4,595.51	4,796.63	4,791.96	10.19	10.53	-146.95	175.83	-2,363.74	2,452.32	2,431.92	20.39	120.249	
4,700.00	4,694.83	4,896.43	4,891.45	10.43	10.77	-147.09	175.83	-2,355.86	2,454.27	2,433.44	20.83	117.802	
4,800.00	4,794.14	4,996.23	4,990.94	10.67	11.00	-147.23	175.83	-2,347.98	2,456.24	2,434.96	21.28	115.447	
4,900.00	4,893.45	5,096.03	5,090.43	10.92	11.24	-147.37	175.83	-2,340.10	2,458.22	2,436.50	21.72	113.179	

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

LEAM Drilling Systems LLC

Anticollision Report

Company: Devon Energy
Project: Lea County, NM (NAD-83)
Reference Site: Fighting Okra 18-19 Fed
Site Error: 0.00 usft
Reference Well: 85H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Plan #1

Local Co-ordinate Reference: Well 85H
TVD Reference: 3369.1' GE + 25' KB @ 3394.10usft
MD Reference: 3369.1' GE + 25' KB @ 3394.10usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDM 5000.1 Multi User Db
Offset TVD Reference: Offset Datum

Offset Design: Fighting Okra 18-19 Fed - 3H - OH - Plan #1												Offset Site Error: 0.00 usft	
Survey Program: 0-LEAM MWD+HDGM												Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,000.00	4,992.76	5,195.83	5,189.92	11.17	11.48	-147.51	175.83	-2,332.22	2,460.22	2,438.05	22.17	110.994	
5,100.00	5,092.07	5,295.63	5,289.41	11.42	11.71	-147.64	175.83	-2,324.34	2,462.23	2,439.62	22.61	108.889	
5,200.00	5,191.38	5,395.44	5,388.90	11.67	11.95	-147.78	175.83	-2,316.46	2,464.25	2,441.19	23.06	106.859	
5,300.00	5,290.69	5,495.24	5,488.39	11.93	12.19	-147.92	175.83	-2,308.58	2,466.29	2,442.78	23.51	104.901	
5,400.00	5,390.01	5,595.04	5,587.88	12.18	12.43	-148.06	175.83	-2,300.70	2,468.35	2,444.39	23.96	103.012	
5,500.00	5,489.32	5,694.84	5,687.37	12.44	12.67	-148.20	175.83	-2,292.82	2,470.42	2,446.00	24.41	101.188	
5,600.00	5,588.63	5,794.64	5,786.86	12.70	12.92	-148.33	175.83	-2,284.94	2,472.50	2,447.63	24.87	99.427	
5,700.00	5,687.94	5,894.45	5,886.35	12.96	13.16	-148.47	175.83	-2,277.06	2,474.60	2,449.27	25.32	97.726	
5,800.00	5,787.25	5,994.25	5,985.84	13.22	13.40	-148.61	175.83	-2,269.18	2,476.71	2,450.93	25.78	96.082	
5,900.00	5,886.56	6,094.05	6,085.33	13.48	13.64	-148.74	175.83	-2,261.30	2,478.83	2,452.60	26.23	94.492	
6,000.00	5,985.88	6,193.85	6,184.82	13.75	13.89	-148.88	175.83	-2,253.42	2,480.97	2,454.28	26.69	92.954	
6,100.00	6,085.19	6,293.65	6,284.31	14.01	14.13	-149.02	175.83	-2,245.54	2,483.13	2,455.98	27.15	91.465	
6,200.00	6,184.50	6,393.45	6,383.80	14.28	14.38	-149.15	175.83	-2,237.66	2,485.29	2,457.69	27.61	90.025	
6,300.00	6,283.81	6,493.26	6,483.29	14.55	14.62	-149.29	175.83	-2,229.78	2,487.48	2,459.41	28.07	88.629	
6,400.00	6,383.12	6,593.06	6,582.78	14.81	14.87	-149.42	175.83	-2,221.90	2,489.67	2,461.15	28.53	87.277	
6,500.00	6,482.43	6,692.86	6,682.27	15.08	15.11	-149.56	175.83	-2,214.02	2,491.88	2,462.90	28.99	85.966	
6,600.00	6,581.75	6,792.66	6,781.76	15.35	15.36	-149.70	175.83	-2,206.14	2,494.11	2,464.66	29.45	84.696	
6,700.00	6,681.06	6,892.46	6,881.25	15.62	15.61	-149.83	175.83	-2,198.26	2,496.34	2,466.43	29.91	83.463	
6,800.00	6,780.37	6,992.26	6,980.74	15.90	15.85	-149.96	175.83	-2,190.38	2,498.60	2,468.22	30.37	82.267	
6,900.00	6,879.68	7,092.07	7,080.23	16.17	16.10	-150.10	175.83	-2,182.50	2,500.86	2,470.03	30.83	81.106	
7,000.00	6,978.99	7,191.87	7,179.72	16.44	16.35	-150.23	175.83	-2,174.62	2,503.14	2,471.84	31.30	79.979	
7,100.00	7,078.30	7,291.67	7,279.21	16.71	16.60	-150.37	175.83	-2,166.74	2,505.43	2,473.67	31.76	78.884	
7,200.00	7,177.61	7,391.47	7,378.70	16.99	16.85	-150.50	175.83	-2,158.86	2,507.74	2,475.51	32.23	77.819	
7,300.00	7,276.93	7,491.27	7,478.19	17.26	17.09	-150.63	175.83	-2,150.98	2,510.06	2,477.37	32.69	76.785	
7,400.00	7,376.24	7,591.08	7,577.69	17.54	17.34	-150.77	175.83	-2,143.10	2,512.39	2,479.24	33.15	75.779	
7,500.00	7,475.55	7,690.88	7,677.18	17.81	17.59	-150.90	175.83	-2,135.22	2,514.74	2,481.12	33.62	74.801	
7,600.00	7,574.86	7,790.68	7,776.67	18.09	17.84	-151.03	175.83	-2,127.34	2,517.10	2,483.02	34.08	73.849	
7,700.00	7,674.17	7,890.48	7,876.16	18.37	18.09	-151.17	175.83	-2,119.46	2,519.48	2,484.93	34.55	72.922	
7,800.00	7,773.48	7,990.28	7,975.65	18.64	18.34	-151.30	175.83	-2,111.58	2,521.86	2,486.85	35.02	72.020	
7,900.00	7,872.80	8,090.08	8,075.14	18.92	18.59	-151.43	175.83	-2,103.70	2,524.26	2,488.78	35.48	71.141	
8,000.00	7,972.11	8,189.89	8,174.63	19.20	18.84	-151.56	175.83	-2,095.82	2,526.68	2,490.73	35.95	70.285	
8,100.00	8,071.42	8,289.69	8,274.12	19.48	19.09	-151.69	175.83	-2,087.94	2,529.11	2,492.69	36.42	69.451	
8,200.00	8,170.73	8,389.49	8,373.61	19.76	19.34	-151.82	175.83	-2,080.06	2,531.55	2,494.67	36.88	68.638	
8,300.00	8,270.04	8,489.29	8,473.10	20.04	19.59	-151.95	175.83	-2,072.18	2,534.00	2,496.65	37.35	67.845	
8,400.00	8,369.35	8,589.09	8,572.59	20.32	19.84	-152.09	175.83	-2,064.30	2,536.47	2,498.65	37.82	67.072	
8,500.00	8,468.66	8,688.89	8,672.08	20.60	20.10	-152.22	175.83	-2,056.42	2,538.95	2,500.67	38.28	66.318	
8,600.00	8,567.98	8,788.70	8,771.57	20.88	20.35	-152.35	175.83	-2,048.54	2,541.45	2,502.70	38.75	65.582	
8,700.00	8,667.29	8,888.50	8,871.06	21.16	20.60	-152.48	175.83	-2,040.66	2,543.95	2,504.73	39.22	64.863	
8,800.00	8,766.60	8,988.30	8,970.55	21.44	20.85	-152.61	175.83	-2,032.78	2,546.48	2,506.79	39.69	64.162	
8,900.00	8,865.91	9,088.10	9,070.04	21.72	21.10	-152.74	175.83	-2,024.90	2,549.01	2,508.85	40.16	63.477	
9,000.00	8,965.22	9,187.90	9,169.53	22.00	21.35	-152.86	175.83	-2,017.02	2,551.56	2,510.93	40.62	62.808	
9,100.00	9,064.53	9,287.70	9,269.02	22.28	21.61	-152.99	175.83	-2,009.14	2,554.12	2,513.02	41.09	62.154	
9,200.00	9,163.85	9,387.51	9,368.51	22.57	21.86	-153.12	175.83	-2,001.26	2,556.69	2,515.13	41.56	61.515	
9,300.00	9,263.16	9,487.31	9,468.00	22.85	22.11	-153.25	175.83	-1,993.38	2,559.27	2,517.24	42.03	60.891	
9,400.00	9,362.47	9,587.11	9,567.49	23.13	22.36	-153.38	175.83	-1,985.51	2,561.87	2,519.37	42.50	60.280	
9,500.00	9,461.78	9,686.91	9,666.98	23.41	22.61	-153.51	175.83	-1,977.63	2,564.48	2,521.51	42.97	59.683	
9,600.00	9,561.09	9,786.71	9,766.47	23.70	22.87	-153.63	175.83	-1,969.75	2,567.11	2,523.67	43.44	59.099	
9,700.00	9,660.40	9,886.52	9,865.96	23.98	23.12	-153.76	175.83	-1,961.87	2,569.74	2,525.84	43.91	58.527	
9,800.00	9,759.71	9,986.32	9,965.45	24.26	23.37	-153.89	175.83	-1,953.99	2,572.39	2,528.02	44.38	57.968	
9,900.00	9,859.03	10,086.12	10,064.94	24.55	23.63	-154.01	175.83	-1,946.11	2,575.05	2,530.21	44.85	57.421	
10,000.00	9,958.34	10,185.92	10,164.43	24.83	23.88	-154.14	175.83	-1,938.23	2,577.73	2,532.41	45.31	56.885	
10,100.00	10,057.65	10,285.72	10,263.92	25.11	24.13	-154.27	175.83	-1,930.35	2,580.42	2,534.63	45.78	56.360	

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

LEAM Drilling Systems LLC

Anticollision Report

Company: Devon Energy
Project: Lea County, NM (NAD-83)
Reference Site: Fighting Okra 18-19 Fed
Site Error: 0.00 usft
Reference Well: 85H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Plan #1

Local Co-ordinate Reference: Well 85H
TVD Reference: 3369.1' GE + 25' KB @ 3394.10usft
MD Reference: 3369.1' GE + 25' KB @ 3394.10usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM 5000.1 Multi User Db
Offset TVD Reference: Offset Datum

Offset Design Fighting Okra 18-19 Fed - 3H - OH - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-LEAM MWD+HDGM													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,200.00	10,156.96	10,385.52	10,363.41	25.40	24.38	-154.39	175.83	-1,922.47	2,583.11	2,536.86	46.25	55.847		
10,300.00	10,256.27	10,485.33	10,462.90	25.68	24.64	-154.52	175.83	-1,914.59	2,585.83	2,539.10	46.72	55.343		
10,400.00	10,355.58	10,580.53	10,557.81	25.97	24.88	-154.64	175.83	-1,907.08	2,588.56	2,541.38	47.18	54.863		
10,500.00	10,454.90	10,649.32	10,626.42	26.25	25.02	-154.72	175.83	-1,902.18	2,592.08	2,544.51	47.56	54.497		
10,600.00	10,554.21	10,718.04	10,695.03	26.54	25.15	-154.81	175.83	-1,898.11	2,596.79	2,548.86	47.94	54.172		
10,700.00	10,653.52	10,800.00	10,776.89	26.82	25.30	-154.91	175.83	-1,894.34	2,602.76	2,554.43	48.33	53.857		
10,800.00	10,752.83	10,855.24	10,832.10	27.11	25.40	-154.97	175.83	-1,892.45	2,609.83	2,561.16	48.66	53.629		
10,900.00	10,852.14	10,923.67	10,900.51	27.39	25.52	-155.05	175.83	-1,890.85	2,618.14	2,569.12	49.02	53.408		
11,000.00	10,951.45	11,000.00	10,976.84	27.68	25.65	-155.13	175.83	-1,890.04	2,627.67	2,578.28	49.39	53.201		
11,100.00	11,050.77	11,077.03	11,053.87	27.96	25.80	-155.21	175.83	-1,889.99	2,638.17	2,588.40	49.77	53.006		
11,178.62	11,128.84	11,155.11	11,131.94	28.19	25.95	-155.30	175.83	-1,889.99	2,646.54	2,596.42	50.12	52.804		
11,200.00	11,150.08	11,176.34	11,153.18	28.24	25.99	-155.33	175.83	-1,889.99	2,648.78	2,598.57	50.21	52.754		
11,300.00	11,249.53	11,275.79	11,252.63	28.46	26.19	-155.46	175.83	-1,889.99	2,658.32	2,607.71	50.61	52.526		
11,400.00	11,349.15	11,375.41	11,352.25	28.66	26.38	-155.57	175.83	-1,889.99	2,666.28	2,615.27	51.01	52.274		
11,500.00	11,448.90	11,475.16	11,452.00	28.86	26.58	-155.66	175.83	-1,889.99	2,672.65	2,621.25	51.40	51.998		
11,600.00	11,548.76	11,575.02	11,551.86	29.05	26.78	-155.73	175.83	-1,889.99	2,677.45	2,625.66	51.79	51.700		
11,700.00	11,648.70	11,674.96	11,651.80	29.22	26.98	-155.77	175.83	-1,889.99	2,680.65	2,628.47	52.17	51.378		
11,800.00	11,748.68	11,774.94	11,751.78	29.39	27.18	-155.79	175.83	-1,889.99	2,682.26	2,629.70	52.56	51.035		
11,851.32	11,800.00	11,826.26	11,803.10	29.47	27.28	-95.89	175.83	-1,889.99	2,682.47	2,629.72	52.75	50.849		
11,900.00	11,848.68	11,874.94	11,851.78	29.56	27.38	-95.89	175.83	-1,889.99	2,682.47	2,629.52	52.95	50.662		
12,000.00	11,948.68	11,974.94	11,951.78	29.75	27.58	-95.89	175.83	-1,889.99	2,682.47	2,629.11	53.36	50.268		
12,100.00	12,048.68	12,074.94	12,051.78	29.94	27.78	-95.89	175.83	-1,889.99	2,682.47	2,628.69	53.78	49.878		
12,103.62	12,052.30	12,078.56	12,055.40	29.95	27.79	-95.89	175.83	-1,889.99	2,682.47	2,628.68	53.80	49.864		
12,200.00	12,148.68	12,150.00	12,126.79	30.14	27.93	-95.93	174.00	-1,889.99	2,682.78	2,628.65	54.13	49.564		
12,300.00	12,248.68	12,218.02	12,194.12	30.33	28.05	-96.13	164.56	-1,889.99	2,684.27	2,629.83	54.44	49.305		
12,392.36	12,341.04	12,276.55	12,250.80	30.51	28.16	-96.43	150.10	-1,889.99	2,686.85	2,632.14	54.72	49.105		
12,400.00	12,348.68	12,281.25	12,255.29	30.52	28.17	83.51	148.69	-1,889.99	2,687.12	2,632.38	54.74	49.092		
12,450.00	12,398.58	12,311.95	12,284.26	30.59	28.22	83.17	138.58	-1,889.99	2,688.78	2,633.92	54.86	49.015		
12,500.00	12,448.05	12,350.00	12,319.37	30.65	28.29	82.82	123.91	-1,889.99	2,690.31	2,635.33	54.98	48.930		
12,550.00	12,496.70	12,372.88	12,339.98	30.70	28.34	82.59	113.98	-1,889.99	2,691.65	2,636.60	55.06	48.888		
12,600.00	12,544.16	12,400.00	12,363.87	30.73	28.39	82.37	101.16	-1,889.99	2,692.82	2,637.69	55.13	48.844		
12,650.00	12,590.08	12,433.36	12,392.39	30.75	28.45	82.18	83.85	-1,889.99	2,693.78	2,638.57	55.22	48.787		
12,700.00	12,634.11	12,463.49	12,417.24	30.76	28.51	82.03	66.82	-1,889.99	2,694.52	2,639.24	55.28	48.740		
12,750.00	12,675.90	12,500.00	12,446.10	30.75	28.58	81.93	44.47	-1,889.99	2,695.05	2,639.68	55.37	48.676		
12,800.00	12,715.15	12,523.62	12,463.99	30.74	28.63	81.89	29.05	-1,889.99	2,695.30	2,639.89	55.41	48.644		
12,850.00	12,751.55	12,550.00	12,483.20	30.73	28.68	81.86	10.97	-1,889.99	2,695.33	2,639.87	55.46	48.601		
12,900.00	12,784.82	12,583.71	12,506.50	30.70	28.76	81.93	-13.38	-1,889.99	2,695.10	2,639.56	55.54	48.525		
12,950.00	12,814.72	12,613.79	12,526.05	30.68	28.83	82.01	-36.23	-1,889.99	2,694.63	2,639.02	55.62	48.450		
13,000.00	12,841.01	12,650.00	12,547.96	30.65	28.91	82.16	-65.06	-1,889.99	2,693.95	2,638.22	55.73	48.340		
13,050.00	12,863.50	12,674.09	12,561.50	30.62	28.97	82.33	-84.98	-1,889.99	2,693.01	2,637.20	55.81	48.256		
13,100.00	12,882.01	12,700.00	12,575.12	30.60	29.04	82.53	-107.02	-1,889.99	2,691.88	2,635.98	55.90	48.152		
13,150.00	12,896.40	12,734.73	12,591.79	30.59	29.14	82.81	-137.48	-1,889.99	2,690.56	2,634.49	56.06	47.992		
13,200.00	12,906.57	12,765.24	12,604.88	30.59	29.24	83.11	-165.03	-1,889.99	2,689.06	2,632.84	56.22	47.831		
13,250.00	12,912.43	12,800.00	12,617.99	30.61	29.35	83.47	-197.22	-1,889.99	2,687.43	2,631.01	56.42	47.632		
13,292.36	12,914.00	12,822.02	12,625.28	30.63	29.43	83.76	-218.00	-1,889.99	2,685.95	2,629.38	56.57	47.479		
13,300.00	12,914.00	12,826.76	12,626.74	30.64	29.44	83.79	-222.51	-1,889.99	2,685.68	2,629.08	56.60	47.447		
13,400.00	12,914.00	12,890.89	12,642.83	30.78	29.69	84.13	-284.56	-1,889.99	2,682.94	2,625.85	57.09	46.997		
13,500.00	12,914.00	12,950.00	12,651.44	31.01	29.95	84.31	-343.01	-1,889.99	2,681.55	2,623.92	57.62	46.535		
13,600.00	12,914.00	13,036.67	12,654.00	31.35	30.37	84.37	-429.60	-1,889.99	2,681.26	2,622.83	58.43	45.885		
13,700.00	12,914.00	13,136.67	12,654.00	31.78	30.93	84.37	-529.60	-1,889.99	2,681.26	2,621.79	59.47	45.083		
13,800.00	12,914.00	13,236.67	12,654.00	32.29	31.56	84.37	-629.60	-1,889.99	2,681.26	2,620.59	60.67	44.195		
13,900.00	12,914.00	13,336.67	12,654.00	32.89	32.26	84.37	-729.60	-1,889.99	2,681.26	2,619.25	62.01	43.238		

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

LEAM Drilling Systems LLC

Anticollision Report

Company: Devon Energy
 Project: Lea County, NM (NAD-83)
 Reference Site: Fighting Okra 18-19 Fed
 Site Error: 0.00 usft
 Reference Well: 85H
 Well Error: 0.00 usft
 Reference Wellbore: OH
 Reference Design: Plan #1

Local Co-ordinate Reference: Well 85H
 TVD Reference: 3369.1' GE + 25' KB @ 3394.10usft
 MD Reference: 3369.1' GE + 25' KB @ 3394.10usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Output errors are at: 2.00 sigma
 Database: EDM 5000.1 Multi User Db
 Offset TVD Reference: Offset Datum

Offset Design Fighting Okra 18-19 Fed - 3H - OH - Plan #1												Offset Site Error:	0.00 usft
Survey Program: 0-LEAM MWD+HDCM												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
14,000.00	12,914.00	13,436.67	12,654.00	33.57	33.03	84.37	-829.60	-1,889.99	2,681.26	2,617.77	63.49	42.229	
14,100.00	12,914.00	13,536.67	12,654.00	34.31	33.86	84.37	-929.60	-1,889.99	2,681.26	2,616.16	65.10	41.184	
14,200.00	12,914.00	13,636.67	12,654.00	35.11	34.75	84.37	-1,029.60	-1,889.99	2,681.26	2,614.42	66.83	40.118	
14,300.00	12,914.00	13,736.67	12,654.00	35.97	35.69	84.37	-1,129.60	-1,889.99	2,681.26	2,612.58	68.68	39.042	
14,400.00	12,914.00	13,836.67	12,654.00	36.89	36.68	84.37	-1,229.60	-1,889.99	2,681.26	2,610.64	70.62	37.968	
14,500.00	12,914.00	13,936.67	12,654.00	37.85	37.71	84.37	-1,329.60	-1,889.99	2,681.26	2,608.60	72.66	36.903	
14,600.00	12,914.00	14,036.67	12,654.00	38.86	38.78	84.37	-1,429.60	-1,889.99	2,681.26	2,606.48	74.78	35.855	
14,700.00	12,914.00	14,136.67	12,654.00	39.91	39.89	84.37	-1,529.60	-1,889.99	2,681.26	2,604.28	76.98	34.829	
14,800.00	12,914.00	14,236.67	12,654.00	41.00	41.04	84.37	-1,629.60	-1,889.99	2,681.26	2,602.00	79.26	33.829	
14,900.00	12,914.00	14,336.67	12,654.00	42.12	42.22	84.37	-1,729.60	-1,889.99	2,681.26	2,599.66	81.60	32.858	
15,000.00	12,914.00	14,436.67	12,654.00	43.28	43.43	84.37	-1,829.60	-1,889.99	2,681.26	2,597.26	84.00	31.918	
15,100.00	12,914.00	14,536.67	12,654.00	44.46	44.67	84.37	-1,929.60	-1,889.99	2,681.26	2,594.80	86.46	31.011	
15,200.00	12,914.00	14,636.67	12,654.00	45.68	45.93	84.37	-2,029.60	-1,889.99	2,681.26	2,592.29	88.97	30.136	
15,300.00	12,914.00	14,736.67	12,654.00	46.92	47.21	84.37	-2,129.60	-1,889.99	2,681.26	2,589.73	91.53	29.294	
15,400.00	12,914.00	14,836.67	12,654.00	48.18	48.52	84.37	-2,229.60	-1,889.99	2,681.26	2,587.13	94.13	28.485	
15,500.00	12,914.00	14,936.67	12,654.00	49.46	49.84	84.37	-2,329.60	-1,889.99	2,681.26	2,584.49	96.77	27.708	
15,600.00	12,914.00	15,036.67	12,654.00	50.77	51.18	84.37	-2,429.60	-1,889.99	2,681.26	2,581.81	99.45	26.962	
15,700.00	12,914.00	15,136.67	12,654.00	52.09	52.54	84.37	-2,529.60	-1,889.99	2,681.26	2,579.10	102.16	26.247	
15,800.00	12,914.00	15,236.67	12,654.00	53.43	53.91	84.37	-2,629.60	-1,889.99	2,681.26	2,576.36	104.90	25.561	
15,900.00	12,914.00	15,336.67	12,654.00	54.78	55.30	84.37	-2,729.60	-1,889.99	2,681.26	2,573.59	107.67	24.903	
16,000.00	12,914.00	15,436.67	12,654.00	56.15	56.70	84.37	-2,829.60	-1,889.99	2,681.26	2,570.80	110.46	24.273	
16,100.00	12,914.00	15,536.67	12,654.00	57.54	58.12	84.37	-2,929.60	-1,889.99	2,681.26	2,567.98	113.28	23.669	
16,200.00	12,914.00	15,636.67	12,654.00	58.94	59.54	84.37	-3,029.60	-1,889.99	2,681.26	2,565.13	116.13	23.089	
16,300.00	12,914.00	15,736.67	12,654.00	60.34	60.98	84.37	-3,129.60	-1,889.99	2,681.26	2,562.27	118.99	22.533	
16,400.00	12,914.00	15,836.67	12,654.00	61.76	62.42	84.37	-3,229.60	-1,889.99	2,681.26	2,559.38	121.88	22.000	
16,500.00	12,914.00	15,936.67	12,654.00	63.19	63.88	84.37	-3,329.60	-1,889.99	2,681.26	2,556.48	124.78	21.488	
16,600.00	12,914.00	16,036.67	12,654.00	64.63	65.34	84.37	-3,429.60	-1,889.99	2,681.26	2,553.56	127.70	20.997	
16,700.00	12,914.00	16,136.67	12,654.00	66.08	66.81	84.37	-3,529.60	-1,889.99	2,681.26	2,550.62	130.64	20.525	
16,800.00	12,914.00	16,236.67	12,654.00	67.54	68.29	84.37	-3,629.60	-1,889.99	2,681.26	2,547.67	133.59	20.071	
16,900.00	12,914.00	16,336.67	12,654.00	69.01	69.77	84.37	-3,729.60	-1,889.99	2,681.26	2,544.71	136.55	19.636	
17,000.00	12,914.00	16,436.67	12,654.00	70.48	71.26	84.37	-3,829.60	-1,889.99	2,681.26	2,541.73	139.53	19.217	
17,100.00	12,914.00	16,536.67	12,654.00	71.96	72.76	84.37	-3,929.60	-1,889.99	2,681.26	2,538.74	142.52	18.814	
17,200.00	12,914.00	16,636.67	12,654.00	73.44	74.26	84.37	-4,029.60	-1,889.99	2,681.26	2,535.74	145.52	18.426	
17,300.00	12,914.00	16,736.67	12,654.00	74.94	75.77	84.37	-4,129.60	-1,889.99	2,681.26	2,532.73	148.53	18.052	
17,400.00	12,914.00	16,836.67	12,654.00	76.43	77.29	84.37	-4,229.60	-1,889.99	2,681.26	2,529.71	151.55	17.692	
17,500.00	12,914.00	16,936.67	12,654.00	77.94	78.81	84.37	-4,329.60	-1,889.99	2,681.26	2,526.68	154.58	17.345	
17,600.00	12,914.00	17,036.67	12,654.00	79.45	80.33	84.37	-4,429.60	-1,889.99	2,681.26	2,523.64	157.62	17.010	
17,700.00	12,914.00	17,136.67	12,654.00	80.96	81.86	84.37	-4,529.60	-1,889.99	2,681.26	2,520.59	160.67	16.688	
17,800.00	12,914.00	17,236.67	12,654.00	82.48	83.39	84.37	-4,629.60	-1,889.99	2,681.26	2,517.53	163.73	16.376	
17,900.00	12,914.00	17,336.67	12,654.00	84.00	84.92	84.37	-4,729.60	-1,889.99	2,681.26	2,514.47	166.79	16.075	
18,000.00	12,914.00	17,436.67	12,654.00	85.53	86.46	84.37	-4,829.60	-1,889.99	2,681.26	2,511.39	169.87	15.785	
18,100.00	12,914.00	17,536.67	12,654.00	87.06	88.01	84.37	-4,929.60	-1,889.99	2,681.26	2,508.32	172.94	15.504	
18,200.00	12,914.00	17,636.67	12,654.00	88.59	89.55	84.37	-5,029.60	-1,889.99	2,681.26	2,505.23	176.03	15.232	
18,300.00	12,914.00	17,736.67	12,654.00	90.13	91.10	84.37	-5,129.60	-1,889.99	2,681.26	2,502.14	179.12	14.969	
18,400.00	12,914.00	17,836.67	12,654.00	91.67	92.65	84.37	-5,229.60	-1,889.99	2,681.26	2,499.04	182.22	14.715	
18,500.00	12,914.00	17,936.67	12,654.00	93.21	94.21	84.37	-5,329.60	-1,889.99	2,681.26	2,495.94	185.32	14.468	
18,600.00	12,914.00	18,036.67	12,654.00	94.76	95.76	84.37	-5,429.60	-1,889.99	2,681.26	2,492.83	188.43	14.230	
18,700.00	12,914.00	18,136.67	12,654.00	96.31	97.32	84.37	-5,529.60	-1,889.99	2,681.26	2,489.72	191.54	13.999	
18,800.00	12,914.00	18,236.67	12,654.00	97.86	98.89	84.37	-5,629.60	-1,889.99	2,681.26	2,486.61	194.65	13.774	
18,900.00	12,914.00	18,336.67	12,654.00	99.42	100.45	84.37	-5,729.60	-1,889.99	2,681.26	2,483.48	197.78	13.557	
19,000.00	12,914.00	18,436.67	12,654.00	100.98	102.02	84.37	-5,829.60	-1,889.99	2,681.26	2,480.36	200.90	13.346	
19,100.00	12,914.00	18,536.67	12,654.00	102.54	103.59	84.37	-5,929.60	-1,889.99	2,681.26	2,477.23	204.03	13.141	

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

LEAM Drilling Systems LLC

Anticollision Report

Company: Devon Energy
Project: Lea County, NM (NAD-83)
Reference Site: Fighting Okra 18-19 Fed
Site Error: 0.00 usft
Reference Well: 85H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Plan #1

Local Co-ordinate Reference: Well 85H
TVD Reference: 3369.1' GE + 25' KB @ 3394.10usft
MD Reference: 3369.1' GE + 25' KB @ 3394.10usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDM 5000.1 Multi User Db
Offset TVD Reference: Offset Datum

Offset Design Fighting Okra 18-19 Fed - 3H - OH - Plan #1											Offset Site Error: 0.00 usft		
Survey Program: 0-LEAM MWD+HDGM											Offset Well Error: 0.00 usft		
Reference		Offset		Semi Major Axis			Distance					Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)		Separation Factor
19,200.00	12,914.00	18,636.67	12,654.00	104.10	105.16	84.37	-6,029.60	-1,889.99	2,681.26	2,474.10	207.16	12.943	
19,300.00	12,914.00	18,736.67	12,654.00	105.67	106.73	84.37	-6,129.60	-1,889.99	2,681.26	2,470.96	210.30	12.750	
19,400.00	12,914.00	18,836.67	12,654.00	107.23	108.30	84.37	-6,229.60	-1,889.99	2,681.26	2,467.82	213.44	12.562	
19,500.00	12,914.00	18,936.67	12,654.00	108.80	109.88	84.37	-6,329.60	-1,889.99	2,681.26	2,464.67	216.59	12.380	
19,600.00	12,914.00	19,036.67	12,654.00	110.37	111.46	84.37	-6,429.60	-1,889.99	2,681.26	2,461.53	219.73	12.202	
19,700.00	12,914.00	19,136.67	12,654.00	111.94	113.04	84.37	-6,529.60	-1,889.99	2,681.26	2,458.37	222.88	12.030	
19,800.00	12,914.00	19,236.67	12,654.00	113.52	114.62	84.37	-6,629.60	-1,889.99	2,681.26	2,455.22	226.04	11.862	
19,900.00	12,914.00	19,336.67	12,654.00	115.09	116.20	84.37	-6,729.60	-1,889.99	2,681.26	2,452.06	229.19	11.699	
20,000.00	12,914.00	19,436.67	12,654.00	116.67	117.79	84.37	-6,829.60	-1,889.99	2,681.26	2,448.91	232.35	11.540	
20,100.00	12,914.00	19,536.67	12,654.00	118.25	119.37	84.37	-6,929.60	-1,889.99	2,681.26	2,445.74	235.52	11.385	
20,200.00	12,914.00	19,636.67	12,654.00	119.83	120.96	84.37	-7,029.60	-1,889.99	2,681.26	2,442.58	238.68	11.234	
20,300.00	12,914.00	19,736.67	12,654.00	121.41	122.55	84.37	-7,129.60	-1,889.99	2,681.26	2,439.41	241.85	11.087	
20,400.00	12,914.00	19,836.67	12,654.00	123.00	124.14	84.37	-7,229.60	-1,889.99	2,681.26	2,436.24	245.02	10.943	
20,500.00	12,914.00	19,936.67	12,654.00	124.58	125.73	84.37	-7,329.60	-1,889.99	2,681.26	2,433.07	248.19	10.803	
20,600.00	12,914.00	20,036.67	12,654.00	126.17	127.32	84.37	-7,429.60	-1,889.99	2,681.26	2,429.90	251.36	10.667	
20,700.00	12,914.00	20,136.67	12,654.00	127.75	128.91	84.37	-7,529.60	-1,889.99	2,681.26	2,426.72	254.54	10.534	
20,800.00	12,914.00	20,236.67	12,654.00	129.34	130.50	84.37	-7,629.60	-1,889.99	2,681.26	2,423.55	257.71	10.404	
20,900.00	12,914.00	20,336.67	12,654.00	130.93	132.10	84.37	-7,729.60	-1,889.99	2,681.26	2,420.37	260.89	10.277	
21,000.00	12,914.00	20,436.67	12,654.00	132.52	133.69	84.37	-7,829.60	-1,889.99	2,681.26	2,417.18	264.08	10.153	
21,100.00	12,914.00	20,536.67	12,654.00	134.11	135.29	84.37	-7,929.60	-1,889.99	2,681.26	2,414.00	267.26	10.032	
21,200.00	12,914.00	20,636.67	12,654.00	135.71	136.89	84.37	-8,029.60	-1,889.99	2,681.26	2,410.82	270.44	9.914	
21,300.00	12,914.00	20,736.67	12,654.00	137.30	138.48	84.37	-8,129.60	-1,889.99	2,681.26	2,407.63	273.63	9.799	
21,400.00	12,914.00	20,836.67	12,654.00	138.90	140.08	84.37	-8,229.60	-1,889.99	2,681.26	2,404.44	276.82	9.686	
21,500.00	12,914.00	20,936.67	12,654.00	140.49	141.68	84.37	-8,329.60	-1,889.99	2,681.26	2,401.25	280.01	9.576	
21,600.00	12,914.00	21,036.67	12,654.00	142.09	143.28	84.37	-8,429.60	-1,889.99	2,681.26	2,398.06	283.20	9.468	
21,700.00	12,914.00	21,136.67	12,654.00	143.68	144.89	84.37	-8,529.60	-1,889.99	2,681.26	2,394.87	286.39	9.362	
21,800.00	12,914.00	21,236.67	12,654.00	145.28	146.49	84.37	-8,629.60	-1,889.99	2,681.26	2,391.67	289.59	9.259	
21,900.00	12,914.00	21,336.67	12,654.00	146.88	148.09	84.37	-8,729.60	-1,889.99	2,681.26	2,388.48	292.78	9.158	
22,000.00	12,914.00	21,436.67	12,654.00	148.48	149.69	84.37	-8,829.60	-1,889.99	2,681.26	2,385.28	295.98	9.059	
22,100.00	12,914.00	21,536.67	12,654.00	150.08	151.30	84.37	-8,929.60	-1,889.99	2,681.26	2,382.08	299.18	8.962	
22,200.00	12,914.00	21,636.67	12,654.00	151.68	152.90	84.37	-9,029.60	-1,889.99	2,681.26	2,378.88	302.38	8.867	
22,300.00	12,914.00	21,736.67	12,654.00	153.28	154.51	84.37	-9,129.60	-1,889.99	2,681.26	2,375.68	305.58	8.774	
22,400.00	12,914.00	21,836.67	12,654.00	154.89	156.11	84.37	-9,229.60	-1,889.99	2,681.26	2,372.48	308.78	8.683	
22,500.00	12,914.00	21,936.67	12,654.00	156.49	157.72	84.37	-9,329.60	-1,889.99	2,681.26	2,369.28	311.98	8.594	
22,600.00	12,914.00	22,036.67	12,654.00	158.09	159.33	84.37	-9,429.60	-1,889.99	2,681.26	2,366.07	315.19	8.507	
22,700.00	12,914.00	22,136.67	12,654.00	159.70	160.93	84.37	-9,529.60	-1,889.99	2,681.26	2,362.87	318.39	8.421	
22,800.00	12,914.00	22,236.67	12,654.00	161.30	162.54	84.37	-9,629.60	-1,889.99	2,681.26	2,359.66	321.60	8.337	
22,867.23	12,914.00	22,303.90	12,654.00	162.38	163.62	84.37	-9,696.83	-1,889.99	2,681.26	2,357.51	323.75	8.282	ES, 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
Project: Lea County, NM (NAD-83)
Reference Site: Fighting Okra 18-19 Fed
Site Error: 0.00 usft
Reference Well: 85H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Plan #1

Local Co-ordinate Reference: Well 85H
TVD Reference: 3369.1' GE + 25' KB @ 3394.10usft
MD Reference: 3369.1' GE + 25' KB @ 3394.10usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDM 5000.1 Multi User Db
Offset TVD Reference: Offset Datum

Offset Design Fighting Okra 18-19 Fed - 41H - OH - Plan #1													Offset Site Error: 0.00 usft
Survey Program: 0-LEAM MWD+HDGM													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	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	-114.61	-1.785.73	-3.898.00	4,287.57				
100.00	100.00	95.90	95.90	0.08	0.07	-114.61	-1.785.73	-3.898.00	4,287.57	4,287.41	0.16	N/A	
200.00	200.00	195.90	195.90	0.31	0.29	-114.61	-1.785.73	-3.898.00	4,287.57	4,286.97	0.60	7,140.440	
300.00	300.00	295.90	295.90	0.53	0.52	-114.61	-1.785.73	-3.898.00	4,287.57	4,286.52	1.05	4,083.418	
400.00	400.00	395.90	395.90	0.76	0.74	-114.61	-1.785.73	-3.898.00	4,287.57	4,286.07	1.50	2,859.280	
500.00	500.00	495.90	495.90	0.98	0.97	-114.61	-1.785.73	-3.898.00	4,287.57	4,285.62	1.95	2,199.814	
600.00	600.00	595.90	595.90	1.21	1.19	-114.61	-1.785.73	-3.898.00	4,287.57	4,285.17	2.40	1,787.536	
700.00	700.00	695.90	695.90	1.43	1.42	-114.61	-1.785.73	-3.898.00	4,287.57	4,284.72	2.85	1,505.401	
800.00	800.00	795.90	795.90	1.66	1.64	-114.61	-1.785.73	-3.898.00	4,287.57	4,284.27	3.30	1,300.187	
900.00	900.00	895.90	895.90	1.88	1.86	-114.61	-1.785.73	-3.898.00	4,287.57	4,283.82	3.75	1,144.210	
1,000.00	1,000.00	995.90	995.90	2.11	2.09	-114.61	-1.785.73	-3.898.00	4,287.57	4,283.37	4.20	1,021.647	
1,100.00	1,100.00	1,095.90	1,095.90	2.33	2.31	-114.61	-1.785.73	-3.898.00	4,287.57	4,282.92	4.65	922.801	
1,200.00	1,200.00	1,195.90	1,195.90	2.56	2.54	-114.61	-1.785.73	-3.898.00	4,287.57	4,282.47	5.10	841.395	
1,300.00	1,300.00	1,295.90	1,295.90	2.78	2.76	-114.61	-1.785.73	-3.898.00	4,287.57	4,282.02	5.55	773.187	
1,400.00	1,400.00	1,395.90	1,395.90	3.01	2.99	-114.61	-1.785.73	-3.898.00	4,287.57	4,281.57	5.99	715.209	
1,500.00	1,500.00	1,495.90	1,495.90	3.23	3.21	-114.61	-1.785.73	-3.898.00	4,287.57	4,281.12	6.44	665.319	
1,600.00	1,600.00	1,595.90	1,595.90	3.46	3.44	-114.61	-1.785.73	-3.898.00	4,287.57	4,280.67	6.89	621.935	
1,700.00	1,700.00	1,695.90	1,695.90	3.68	3.66	-114.61	-1.785.73	-3.898.00	4,287.57	4,280.22	7.34	583.863	
1,800.00	1,800.00	1,795.90	1,795.90	3.91	3.89	-114.61	-1.785.73	-3.898.00	4,287.57	4,279.77	7.79	550.184	
1,900.00	1,900.00	1,895.90	1,895.90	4.13	4.11	-114.61	-1.785.73	-3.898.00	4,287.57	4,279.33	8.24	520.178	
2,000.00	2,000.00	1,995.90	1,995.90	4.35	4.34	-114.61	-1.785.73	-3.898.00	4,287.57	4,278.88	8.69	493.275	
2,100.00	2,100.00	2,095.90	2,095.90	4.58	4.56	-114.61	-1.785.73	-3.898.00	4,287.57	4,278.43	9.14	469.019	
2,200.00	2,200.00	2,195.90	2,195.90	4.80	4.79	-114.61	-1.785.73	-3.898.00	4,287.57	4,277.98	9.59	447.036	
2,300.00	2,300.00	2,295.90	2,295.90	5.03	5.01	-114.61	-1.785.73	-3.898.00	4,287.57	4,277.53	10.04	427.022	
2,400.00	2,400.00	2,395.90	2,395.90	5.25	5.24	-114.61	-1.785.73	-3.898.00	4,287.57	4,277.08	10.49	408.722	
2,500.00	2,500.00	2,495.90	2,495.90	5.48	5.46	-114.61	-1.785.73	-3.898.00	4,287.57	4,276.63	10.94	391.927	
2,600.00	2,600.00	2,595.90	2,595.90	5.70	5.69	-114.61	-1.785.73	-3.898.00	4,287.57	4,276.18	11.39	376.458	
2,700.00	2,700.00	2,695.90	2,695.90	5.93	5.91	-114.61	-1.785.73	-3.898.00	4,287.57	4,275.73	11.84	362.163	
2,800.00	2,800.00	2,795.90	2,795.90	6.15	6.14	-114.61	-1.785.73	-3.898.00	4,287.57	4,275.28	12.29	348.915	
2,900.00	2,900.00	2,895.90	2,895.90	6.38	6.36	-114.61	-1.785.73	-3.898.00	4,287.57	4,274.83	12.74	336.601	
3,000.00	3,000.00	2,995.90	2,995.90	6.60	6.58	-114.61	-1.785.73	-3.898.00	4,287.57	4,274.38	13.19	325.127	
3,100.00	3,100.00	3,095.90	3,095.90	6.83	6.81	-114.61	-1.785.73	-3.898.00	4,287.57	4,273.93	13.64	314.409	
3,200.00	3,200.00	3,195.90	3,195.90	7.05	7.03	-114.61	-1.785.73	-3.898.00	4,287.57	4,273.48	14.09	304.376	
3,300.00	3,300.00	3,295.90	3,295.90	7.28	7.26	-114.61	-1.785.73	-3.898.00	4,287.57	4,273.03	14.54	294.963	
3,400.00	3,400.00	3,395.90	3,395.90	7.50	7.48	-114.61	-1.785.73	-3.898.00	4,287.57	4,272.58	14.99	286.115	
3,500.00	3,500.00	3,495.90	3,495.90	7.73	7.71	-114.61	-1.785.73	-3.898.00	4,287.57	4,272.13	15.44	277.782 CC, ES	
3,600.00	3,600.00	3,595.90	3,595.90	7.94	7.93	-174.52	-1.785.73	-3.898.00	4,288.44	4,272.56	15.88	270.100	
3,700.00	3,699.96	3,695.86	3,695.86	8.16	8.16	-174.52	-1.785.73	-3.898.00	4,291.04	4,274.73	16.31	263.048	
3,800.00	3,799.86	3,795.76	3,795.76	8.37	8.38	-174.53	-1.785.73	-3.898.00	4,295.38	4,278.64	16.75	256.458	
3,900.00	3,899.68	3,895.58	3,895.58	8.58	8.61	-174.53	-1.785.73	-3.898.00	4,301.46	4,284.28	17.19	250.297	
4,000.00	3,999.37	3,995.27	3,995.27	8.80	8.83	-174.53	-1.785.73	-3.898.00	4,309.27	4,291.65	17.62	244.534	
4,100.00	4,098.90	4,094.80	4,094.80	9.02	9.05	-174.53	-1.785.73	-3.898.00	4,318.81	4,300.75	18.06	239.141	
4,172.70	4,171.16	4,167.06	4,167.06	9.19	9.22	-174.54	-1.785.73	-3.898.00	4,326.83	4,308.46	18.38	235.436	
4,200.00	4,198.27	4,194.17	4,194.17	9.25	9.28	-174.54	-1.785.73	-3.898.00	4,330.02	4,311.52	18.50	234.085	
4,300.00	4,297.58	4,293.48	4,293.48	9.48	9.50	-174.55	-1.785.73	-3.898.00	4,341.68	4,322.74	18.94	229.292	
4,400.00	4,396.89	4,392.79	4,392.79	9.71	9.72	-174.57	-1.785.73	-3.898.00	4,353.34	4,333.97	19.37	224.702	
4,500.00	4,496.20	4,492.10	4,492.10	9.95	9.95	-174.58	-1.785.73	-3.898.00	4,365.00	4,345.19	19.81	220.303	
4,600.00	4,595.51	4,745.66	4,745.36	10.19	10.52	-174.49	-1,775.20	-3.898.08	4,375.05	4,354.46	20.59	212.489	
4,700.00	4,694.83	4,931.30	4,929.72	10.43	10.94	-174.26	-1,753.72	-3.898.23	4,381.77	4,360.56	21.21	206.590	
4,800.00	4,794.14	5,030.49	5,028.03	10.67	11.16	-174.12	-1,740.49	-3.898.33	4,388.00	4,366.35	21.66	202.619	
4,900.00	4,893.45	5,129.69	5,126.34	10.92	11.38	-173.98	-1,727.25	-3.898.43	4,394.26	4,372.16	22.11	198.774	
5,000.00	4,992.76	5,228.89	5,224.65	11.17	11.62	-173.84	-1,714.02	-3.898.53	4,400.55	4,377.99	22.56	195.051	

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

LEAM Drilling Systems LLC

Anticollision Report

Company: Devon Energy
Project: Lea County, NM (NAD-83)
Reference Site: Fighting Okra 18-19 Fed
Site Error: 0.00 usft
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Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Plan #1

Local Co-ordinate Reference: Well 85H
TVD Reference: 3369.1' GE + 25' KB @ 3394.10usft
MD Reference: 3369.1' GE + 25' KB @ 3394.10usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDM 5000.1 Multi User Db
Offset TVD Reference: Offset Datum

Offset Design Fighting Okra 18-19 Fed - 41H - OH - Plan #1												Offset Site Error:	0.00 usft
Survey Program: 0-LEAM MWD+HDGM												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,092.07	5,328.08	5,322.97	11.42	11.85	-173.69	-1,700.78	-3,898.62	4,406.87	4,383.85	23.02	191.448	
5,200.00	5,191.38	5,427.28	5,421.28	11.67	12.09	-173.55	-1,687.55	-3,898.72	4,413.22	4,389.74	23.48	187.959	
5,300.00	5,290.69	5,526.48	5,519.59	11.93	12.33	-173.41	-1,674.31	-3,898.82	4,419.59	4,395.64	23.94	184.582	
5,400.00	5,390.01	5,625.68	5,617.90	12.18	12.58	-173.27	-1,661.07	-3,898.91	4,425.99	4,401.57	24.41	181.312	
5,500.00	5,489.32	5,724.87	5,716.21	12.44	12.83	-173.13	-1,647.84	-3,899.01	4,432.41	4,407.53	24.88	178.145	
5,600.00	5,588.63	5,824.07	5,814.52	12.70	13.07	-172.99	-1,634.60	-3,899.11	4,438.86	4,413.51	25.35	175.078	
5,700.00	5,687.94	5,923.27	5,912.83	12.96	13.33	-172.85	-1,621.37	-3,899.21	4,445.34	4,419.51	25.83	172.108	
5,800.00	5,787.25	6,022.47	6,011.14	13.22	13.58	-172.71	-1,608.13	-3,899.30	4,451.85	4,425.54	26.31	169.230	
5,900.00	5,886.56	6,121.66	6,109.45	13.48	13.84	-172.57	-1,594.90	-3,899.40	4,458.38	4,431.59	26.79	166.441	
6,000.00	5,985.88	6,220.86	6,207.76	13.75	14.09	-172.44	-1,581.66	-3,899.50	4,464.94	4,437.67	27.27	163.738	
6,100.00	6,085.19	6,320.06	6,306.07	14.01	14.35	-172.30	-1,568.42	-3,899.59	4,471.52	4,443.77	27.75	161.118	
6,200.00	6,184.50	6,419.25	6,404.38	14.28	14.61	-172.16	-1,555.19	-3,899.69	4,478.13	4,449.89	28.24	158.577	
6,300.00	6,283.81	6,518.45	6,502.69	14.55	14.88	-172.02	-1,541.95	-3,899.79	4,484.77	4,456.04	28.73	156.113	
6,400.00	6,383.12	6,617.65	6,601.00	14.81	15.14	-171.89	-1,528.72	-3,899.89	4,491.43	4,462.21	29.22	153.722	
6,500.00	6,482.43	6,716.85	6,699.31	15.08	15.41	-171.75	-1,515.48	-3,899.98	4,498.11	4,468.40	29.71	151.402	
6,600.00	6,581.75	6,816.04	6,797.62	15.35	15.67	-171.61	-1,502.25	-3,900.08	4,504.83	4,474.62	30.20	149.150	
6,700.00	6,681.06	6,915.24	6,895.93	15.62	15.94	-171.48	-1,489.01	-3,900.18	4,511.57	4,480.87	30.70	146.964	
6,800.00	6,780.37	7,014.44	6,994.24	15.90	16.21	-171.34	-1,475.78	-3,900.27	4,518.33	4,487.13	31.20	144.840	
6,900.00	6,879.68	7,113.63	7,092.55	16.17	16.48	-171.21	-1,462.54	-3,900.37	4,525.12	4,493.42	31.69	142.777	
7,000.00	6,978.99	7,212.83	7,190.86	16.44	16.75	-171.07	-1,449.30	-3,900.47	4,531.93	4,499.74	32.19	140.773	
7,100.00	7,078.30	7,312.03	7,289.17	16.71	17.02	-170.94	-1,436.07	-3,900.57	4,538.77	4,506.08	32.69	138.825	
7,200.00	7,177.61	7,411.23	7,387.48	16.99	17.30	-170.81	-1,422.83	-3,900.66	4,545.64	4,512.44	33.20	136.931	
7,300.00	7,276.93	7,510.42	7,485.79	17.26	17.57	-170.67	-1,409.60	-3,900.76	4,552.52	4,518.82	33.70	135.088	
7,400.00	7,376.24	7,609.62	7,584.10	17.54	17.85	-170.54	-1,396.36	-3,900.86	4,559.44	4,525.23	34.21	133.297	
7,500.00	7,475.55	7,708.82	7,682.41	17.81	18.13	-170.41	-1,383.13	-3,900.95	4,566.38	4,531.66	34.71	131.553	
7,600.00	7,574.86	7,808.02	7,780.72	18.09	18.40	-170.28	-1,369.89	-3,901.05	4,573.34	4,538.12	35.22	129.856	
7,700.00	7,674.17	7,907.21	7,879.03	18.37	18.68	-170.14	-1,356.66	-3,901.15	4,580.32	4,544.60	35.73	128.204	
7,800.00	7,773.48	8,006.41	7,977.34	18.64	18.96	-170.01	-1,343.42	-3,901.25	4,587.34	4,551.10	36.24	126.595	
7,900.00	7,872.80	8,105.61	8,075.65	18.92	19.24	-169.88	-1,330.18	-3,901.34	4,594.37	4,557.62	36.75	125.028	
8,000.00	7,972.11	8,204.80	8,173.96	19.20	19.52	-169.75	-1,316.95	-3,901.44	4,601.43	4,564.17	37.26	123.501	
8,100.00	8,071.42	8,304.00	8,272.27	19.48	19.80	-169.62	-1,303.71	-3,901.54	4,608.51	4,570.74	37.77	122.013	
8,200.00	8,170.73	8,403.20	8,370.58	19.76	20.08	-169.49	-1,290.48	-3,901.63	4,615.62	4,577.33	38.28	120.563	
8,300.00	8,270.04	8,502.40	8,468.89	20.04	20.36	-169.36	-1,277.24	-3,901.73	4,622.75	4,583.95	38.80	119.148	
8,400.00	8,369.35	8,601.59	8,567.20	20.32	20.65	-169.24	-1,264.01	-3,901.83	4,629.90	4,590.59	39.31	117.769	
8,500.00	8,468.66	8,700.79	8,665.51	20.60	20.93	-169.11	-1,250.77	-3,901.93	4,637.08	4,597.25	39.83	116.424	
8,600.00	8,567.98	8,799.99	8,763.82	20.88	21.21	-168.98	-1,237.54	-3,902.02	4,644.28	4,603.93	40.35	115.111	
8,700.00	8,667.29	8,899.18	8,862.13	21.16	21.50	-168.85	-1,224.30	-3,902.12	4,651.51	4,610.64	40.86	113.829	
8,800.00	8,766.60	8,950.00	8,912.49	21.44	21.64	-168.79	-1,217.53	-3,902.17	4,659.01	4,617.76	41.24	112.961	
8,900.00	8,865.91	9,000.00	8,962.30	21.72	21.74	-168.75	-1,213.28	-3,902.20	4,667.82	4,626.24	41.58	112.268	
9,000.00	8,965.22	9,000.00	8,962.30	22.00	21.74	-168.75	-1,213.28	-3,902.20	4,678.23	4,636.43	41.80	111.927	
9,100.00	9,064.53	9,050.00	9,012.28	22.28	21.82	-168.77	-1,213.39	-3,902.20	4,690.00	4,647.90	42.10	111.411	
9,200.00	9,163.85	9,071.76	9,034.00	22.57	21.84	-168.79	-1,214.80	-3,902.19	4,703.38	4,661.05	42.33	111.119	
9,300.00	9,263.16	9,100.00	9,062.07	22.85	21.87	-168.83	-1,217.85	-3,902.17	4,718.28	4,675.72	42.56	110.862	
9,400.00	9,362.47	9,125.25	9,087.01	23.13	21.89	-168.88	-1,221.75	-3,902.14	4,734.70	4,691.93	42.77	110.703	
9,500.00	9,461.78	9,150.00	9,111.27	23.41	21.91	-168.95	-1,226.64	-3,902.10	4,752.63	4,709.66	42.97	110.603	
9,600.00	9,561.09	9,176.45	9,136.94	23.70	21.91	-169.03	-1,233.02	-3,902.06	4,772.07	4,728.92	43.15	110.580	
9,700.00	9,660.40	9,200.00	9,159.52	23.98	21.91	-169.11	-1,239.68	-3,902.01	4,793.03	4,749.71	43.33	110.619	
9,800.00	9,759.71	9,224.76	9,182.95	24.26	21.91	-169.21	-1,247.68	-3,901.95	4,815.52	4,772.03	43.49	110.732	
9,900.00	9,859.03	9,250.00	9,206.46	24.55	21.90	-169.32	-1,256.88	-3,901.88	4,839.52	4,795.88	43.64	110.895	
10,000.00	9,958.34	9,269.77	9,224.58	24.83	21.89	-169.42	-1,264.80	-3,901.82	4,865.05	4,821.28	43.77	111.139	
10,100.00	10,057.65	9,300.00	9,251.71	25.11	21.87	-169.58	-1,278.10	-3,901.72	4,892.13	4,848.23	43.91	111.417	
10,200.00	10,156.96	9,300.00	9,251.71	25.40	21.87	-169.58	-1,278.10	-3,901.72	4,920.72	4,876.71	44.01	111.797	

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

LEAM Drilling Systems LLC

Anticollision Report

Company: Devon Energy
Project: Lea County, NM (NAD-83)
Reference Site: Fighting Okra 18-19 Fed
Site Error: 0.00 usft
Reference Well: 85H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Plan #1

Local Co-ordinate Reference: Well 85H
TVD Reference: 3369.1' GE + 25' KB @ 3394.10usft
MD Reference: 3369.1' GE + 25' KB @ 3394.10usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM 5000.1 Multi User Db
Offset TVD Reference: Offset Datum

Offset Design Fighting Okra 18-19 Fed - 41H - OH - Plan #1													Offset Site Error: 0.00 usft
Survey Program: 0-LEAM MWD+HDGM													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore +N/-S (usft)	Offset Wellbore +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,300.00	10,256.27	9,350.00	9,294.95	25.68	21.83	-169.88	-1,303.19	-3,901.54	4,950.92	4,906.78	44.14	112.168	
10,400.00	10,355.58	9,350.00	9,294.95	25.97	21.83	-169.88	-1,303.19	-3,901.54	4,982.35	4,938.12	44.23	112.644	
10,500.00	10,454.90	9,350.00	9,294.95	26.25	21.83	-169.88	-1,303.19	-3,901.54	5,015.58	4,971.27	44.32	113.180	
10,600.00	10,554.21	9,400.00	9,335.83	26.54	21.78	-170.22	-1,331.95	-3,901.33	5,050.16	5,005.74	44.42	113.700	
10,700.00	10,653.52	9,400.00	9,335.83	26.82	21.78	-170.22	-1,331.95	-3,901.33	5,086.11	5,041.62	44.49	114.320	
10,800.00	10,752.83	9,400.00	9,335.83	27.11	21.78	-170.22	-1,331.95	-3,901.33	5,123.77	5,079.21	44.56	114.992	
10,900.00	10,852.14	9,450.00	9,374.05	27.39	21.72	-170.59	-1,364.16	-3,901.09	5,162.83	5,118.18	44.64	115.646	
11,000.00	10,951.45	9,450.00	9,374.05	27.68	21.72	-170.59	-1,364.16	-3,901.09	5,203.08	5,158.37	44.70	116.392	
11,100.00	11,050.77	9,450.00	9,374.05	27.96	21.72	-170.59	-1,364.16	-3,901.09	5,244.93	5,200.17	44.76	117.182	
11,178.62	11,128.84	9,450.00	9,374.05	28.19	21.72	-170.59	-1,364.16	-3,901.09	5,278.93	5,234.13	44.80	117.834	
11,200.00	11,150.08	9,470.57	9,388.93	28.24	21.69	-170.77	-1,378.36	-3,900.99	5,288.09	5,243.27	44.82	117.993	
11,300.00	11,249.53	9,500.00	9,409.31	28.46	21.66	-171.09	-1,399.58	-3,900.83	5,331.74	5,286.90	44.84	118.909	
11,400.00	11,349.15	9,500.00	9,409.31	28.66	21.66	-171.16	-1,399.58	-3,900.83	5,374.92	5,330.08	44.84	119.866	
11,500.00	11,448.90	9,500.00	9,409.31	28.86	21.66	-171.24	-1,399.58	-3,900.83	5,418.06	5,373.22	44.84	120.836	
11,600.00	11,548.76	9,500.00	9,409.31	29.05	21.66	-171.31	-1,399.58	-3,900.83	5,461.14	5,416.31	44.83	121.819	
11,700.00	11,648.70	9,527.49	9,427.35	29.22	21.62	-171.61	-1,420.32	-3,900.68	5,503.75	5,458.91	44.84	122.755	
11,800.00	11,748.68	9,550.00	9,441.36	29.39	21.60	-171.86	-1,437.94	-3,900.55	5,546.40	5,501.57	44.83	123.711	
11,851.32	11,800.00	9,550.00	9,441.36	29.47	21.60	-111.98	-1,437.94	-3,900.55	5,568.11	5,523.29	44.82	124.219	
11,900.00	11,848.68	9,550.00	9,441.36	29.56	21.60	-111.98	-1,437.94	-3,900.55	5,588.87	5,544.05	44.82	124.683	
12,000.00	11,948.68	9,550.00	9,441.36	29.75	21.60	-111.98	-1,437.94	-3,900.55	5,632.60	5,587.75	44.84	125.615	
12,100.00	12,048.68	9,550.00	9,441.36	29.94	21.60	-111.98	-1,437.94	-3,900.55	5,677.74	5,632.89	44.86	126.575	
12,200.00	12,148.68	9,574.88	9,456.03	30.14	21.57	-112.20	-1,458.03	-3,900.40	5,723.92	5,679.03	44.89	127.497	
12,300.00	12,248.68	9,600.00	9,469.94	30.33	21.54	-112.42	-1,478.94	-3,900.25	5,771.69	5,726.76	44.93	128.448	
12,392.36	12,341.04	9,600.00	9,469.94	30.51	21.54	-112.42	-1,478.94	-3,900.25	5,816.66	5,771.70	44.96	129.384	
12,400.00	12,348.68	9,600.00	9,469.94	30.52	21.54	67.19	-1,478.94	-3,900.25	5,820.41	5,775.45	44.96	129.465	
12,450.00	12,398.58	9,600.00	9,469.94	30.59	21.54	64.71	-1,478.94	-3,900.25	5,844.28	5,799.33	44.95	130.018	
12,500.00	12,448.05	9,600.00	9,469.94	30.65	21.54	62.44	-1,478.94	-3,900.25	5,866.83	5,821.90	44.93	130.567	
12,550.00	12,496.70	9,600.00	9,469.94	30.70	21.54	60.40	-1,478.94	-3,900.25	5,887.92	5,843.01	44.91	131.104	
12,600.00	12,544.16	9,600.00	9,469.94	30.73	21.54	58.58	-1,478.94	-3,900.25	5,907.39	5,862.51	44.88	131.626	
12,650.00	12,590.08	9,600.00	9,469.94	30.75	21.54	56.97	-1,478.94	-3,900.25	5,925.11	5,880.27	44.84	132.126	
12,700.00	12,634.11	9,621.65	9,481.18	30.76	21.53	55.50	-1,497.44	-3,900.12	5,940.68	5,895.86	44.82	132.534	
12,750.00	12,675.90	9,627.69	9,484.20	30.75	21.52	54.31	-1,502.68	-3,900.08	5,954.39	5,909.60	44.79	132.952	
12,800.00	12,715.15	9,650.00	9,494.84	30.74	21.50	53.28	-1,522.28	-3,899.93	5,966.14	5,921.37	44.76	133.288	
12,850.00	12,751.55	9,650.00	9,494.84	30.73	21.50	52.53	-1,522.28	-3,899.93	5,975.43	5,930.71	44.72	133.624	
12,900.00	12,784.82	9,650.00	9,494.84	30.70	21.50	51.96	-1,522.28	-3,899.93	5,982.51	5,937.83	44.68	133.901	
12,950.00	12,814.72	9,650.00	9,494.84	30.68	21.50	51.58	-1,522.28	-3,899.93	5,987.33	5,942.69	44.64	134.112	
13,000.00	12,841.01	9,650.00	9,494.84	30.65	21.50	51.38	-1,522.28	-3,899.93	5,989.87	5,945.25	44.62	134.247	
13,050.00	12,863.50	9,650.00	9,494.84	30.62	21.50	51.36	-1,522.28	-3,899.93	5,990.10	5,945.50	44.60	134.300	
13,100.00	12,882.01	9,673.34	9,505.15	30.60	21.49	51.55	-1,543.23	-3,899.78	5,987.69	5,943.07	44.62	134.178	
13,150.00	12,896.40	9,700.00	9,515.86	30.59	21.47	51.94	-1,567.63	-3,899.60	5,983.36	5,938.69	44.66	133.963	
13,200.00	12,906.57	9,700.00	9,515.86	30.59	21.47	52.50	-1,567.63	-3,899.60	5,976.32	5,931.63	44.69	133.724	
13,250.00	12,912.43	9,700.00	9,515.86	30.61	21.47	53.25	-1,567.63	-3,899.60	5,967.08	5,922.34	44.74	133.386	
13,292.36	12,914.00	9,700.00	9,515.86	30.63	21.47	54.04	-1,567.63	-3,899.60	5,957.56	5,912.77	44.79	133.021	
13,300.00	12,914.00	9,700.00	9,515.86	30.64	21.47	54.04	-1,567.63	-3,899.60	5,955.71	5,910.91	44.80	132.947	
13,400.00	12,914.00	9,700.00	9,515.86	30.78	21.47	54.04	-1,567.63	-3,899.60	5,932.36	5,887.39	44.96	131.937	
13,500.00	12,914.00	9,724.58	9,524.73	31.01	21.47	54.11	-1,590.55	-3,899.43	5,910.23	5,865.01	45.23	130.684	
13,600.00	12,914.00	9,750.00	9,532.86	31.35	21.46	54.17	-1,614.63	-3,899.26	5,889.70	5,844.15	45.55	129.303	
13,700.00	12,914.00	9,750.00	9,532.86	31.78	21.46	54.17	-1,614.63	-3,899.26	5,870.39	5,824.49	45.90	127.891	
13,800.00	12,914.00	9,750.00	9,532.86	32.29	21.46	54.17	-1,614.63	-3,899.26	5,852.74	5,806.42	46.31	126.376	
13,900.00	12,914.00	9,777.79	9,540.51	32.89	21.47	54.23	-1,641.35	-3,899.06	5,836.27	5,789.45	46.82	124.642	
14,000.00	12,914.00	9,800.00	9,545.69	33.57	21.47	54.27	-1,662.94	-3,898.90	5,821.41	5,774.03	47.38	122.864	
14,100.00	12,914.00	9,800.00	9,545.69	34.31	21.47	54.27	-1,662.94	-3,898.90	5,807.94	5,759.99	47.96	121.111	

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

LEAM Drilling Systems LLC

Anticollision Report

Company: Devon Energy
 Project: Lea County, NM (NAD-83)
 Reference Site: Fighting Okra 18-19 Fed
 Site Error: 0.00 usft
 Reference Well: 85H
 Well Error: 0.00 usft
 Reference Wellbore: OH
 Reference Design: Plan #1

Local Co-ordinate Reference: Well 85H
 TVD Reference: 3369.1' GE + 25' KB @ 3394.10usft
 MD Reference: 3369.1' GE + 25' KB @ 3394.10usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Output errors are at 2.00 sigma
 Database: EDM 5000.1 Multi User Db
 Offset TVD Reference: Offset Datum

Offset Design Fighting Okra 18-19 Fed - 41H - OH - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-LEAM MWD+HDGM													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	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 Centra +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
14,200.00	12,914.00	9,800.00	9,545.69	35.11	21.47	54.27	-1,662.94	-3,898.90	5,796.17	5,747.59	48.58	119.316		
14,300.00	12,914.00	9,850.00	9,554.26	35.97	21.51	54.34	-1,712.18	-3,898.54	5,785.57	5,736.23	49.34	117.264		
14,400.00	12,914.00	9,850.00	9,554.26	36.89	21.51	54.34	-1,712.18	-3,898.54	5,776.36	5,726.31	50.05	115.412		
14,500.00	12,914.00	9,850.00	9,554.26	37.85	21.51	54.34	-1,712.18	-3,898.54	5,768.86	5,718.06	50.80	113.560		
14,600.00	12,914.00	9,876.87	9,557.08	38.86	21.54	54.36	-1,738.90	-3,898.34	5,762.67	5,711.02	51.64	111.586		
14,700.00	12,914.00	9,900.00	9,558.51	39.91	21.56	54.37	-1,761.99	-3,898.17	5,758.08	5,705.57	52.51	109.658		
14,800.00	12,914.00	9,900.00	9,558.51	41.00	21.56	54.37	-1,761.99	-3,898.17	5,754.91	5,701.56	53.36	107.854		
14,900.00	12,914.00	9,923.75	9,559.00	42.12	21.60	54.38	-1,785.73	-3,898.00	5,753.24	5,698.95	54.29	105.977		
15,000.00	12,914.00	10,001.93	9,559.00	43.28	21.76	54.37	-1,863.91	-3,897.43	5,752.60	5,697.20	55.40	103.834		
15,100.00	12,914.00	10,101.93	9,559.00	44.46	22.07	54.37	-1,963.90	-3,896.69	5,752.00	5,695.31	56.69	101.466		
15,200.00	12,914.00	10,201.92	9,559.00	45.68	22.50	54.36	-2,063.90	-3,895.96	5,751.41	5,693.31	58.10	98.998		
15,300.00	12,914.00	10,301.92	9,559.00	46.92	23.03	54.36	-2,163.89	-3,895.23	5,750.81	5,691.19	59.62	96.465		
15,400.00	12,914.00	10,401.92	9,559.00	48.18	23.67	54.36	-2,263.89	-3,894.49	5,750.21	5,688.97	61.24	93.898		
15,500.00	12,914.00	10,501.92	9,559.00	49.46	24.40	54.35	-2,363.88	-3,893.76	5,749.62	5,686.66	62.96	91.324		
15,600.00	12,914.00	10,601.91	9,559.00	50.77	25.21	54.35	-2,463.87	-3,893.02	5,749.02	5,684.26	64.77	88.767		
15,700.00	12,914.00	10,701.91	9,559.00	52.09	26.11	54.34	-2,563.87	-3,892.29	5,748.42	5,681.77	66.65	86.244		
15,800.00	12,914.00	10,801.91	9,559.00	53.43	27.07	54.34	-2,663.86	-3,891.56	5,747.83	5,679.22	68.61	83.773		
15,900.00	12,914.00	10,901.91	9,559.00	54.78	28.09	54.33	-2,763.86	-3,890.82	5,747.23	5,676.60	70.64	81.362		
16,000.00	12,914.00	11,001.90	9,559.00	56.15	29.17	54.33	-2,863.85	-3,890.09	5,746.64	5,673.91	72.72	79.022		
16,100.00	12,914.00	11,101.90	9,559.00	57.54	30.31	54.33	-2,963.85	-3,889.36	5,746.04	5,671.18	74.86	76.758		
16,200.00	12,914.00	11,201.90	9,559.00	58.94	31.48	54.32	-3,063.84	-3,888.62	5,745.44	5,668.40	77.05	74.572		
16,300.00	12,914.00	11,301.90	9,559.00	60.34	32.69	54.32	-3,163.84	-3,887.89	5,744.85	5,665.57	79.27	72.468		
16,400.00	12,914.00	11,401.89	9,559.00	61.76	33.94	54.31	-3,263.83	-3,887.15	5,744.25	5,662.71	81.54	70.444		
16,500.00	12,914.00	11,501.89	9,559.00	63.19	35.23	54.31	-3,363.83	-3,886.42	5,743.66	5,659.81	83.85	68.501		
16,600.00	12,914.00	11,601.89	9,559.00	64.63	36.54	54.30	-3,463.82	-3,885.69	5,743.06	5,656.88	86.18	66.638		
16,700.00	12,914.00	11,701.88	9,559.00	66.08	37.87	54.30	-3,563.82	-3,884.95	5,742.46	5,653.92	88.55	64.851		
16,800.00	12,914.00	11,801.88	9,559.00	67.54	39.23	54.30	-3,663.81	-3,884.22	5,741.87	5,650.93	90.94	63.139		
16,900.00	12,914.00	11,901.88	9,559.00	69.01	40.61	54.29	-3,763.80	-3,883.49	5,741.27	5,647.92	93.36	61.498		
17,000.00	12,914.00	12,001.88	9,559.00	70.48	42.01	54.29	-3,863.80	-3,882.75	5,740.68	5,644.88	95.79	59.927		
17,100.00	12,914.00	12,101.87	9,559.00	71.96	43.42	54.28	-3,963.79	-3,882.02	5,740.08	5,641.83	98.25	58.421		
17,200.00	12,914.00	12,201.87	9,559.00	73.44	44.85	54.28	-4,063.79	-3,881.28	5,739.49	5,638.76	100.73	56.979		
17,300.00	12,914.00	12,301.87	9,559.00	74.94	46.29	54.27	-4,163.78	-3,880.55	5,738.89	5,635.67	103.22	55.597		
17,400.00	12,914.00	12,401.87	9,559.00	76.43	47.75	54.27	-4,263.78	-3,879.82	5,738.29	5,632.56	105.73	54.272		
17,500.00	12,914.00	12,501.86	9,559.00	77.94	49.21	54.27	-4,363.77	-3,879.08	5,737.70	5,629.44	108.26	53.001		
17,600.00	12,914.00	12,601.86	9,559.00	79.45	50.69	54.26	-4,463.77	-3,878.35	5,737.10	5,626.31	110.79	51.782		
17,700.00	12,914.00	12,701.86	9,559.00	80.96	52.18	54.26	-4,563.76	-3,877.62	5,736.51	5,623.17	113.34	50.613		
17,800.00	12,914.00	12,801.86	9,559.00	82.48	53.67	54.25	-4,663.76	-3,876.88	5,735.91	5,620.01	115.90	49.490		
17,900.00	12,914.00	12,901.85	9,559.00	84.00	55.18	54.25	-4,763.75	-3,876.15	5,735.32	5,616.84	118.47	48.411		
18,000.00	12,914.00	13,001.85	9,559.00	85.53	56.69	54.24	-4,863.75	-3,875.41	5,734.72	5,613.67	121.05	47.374		
18,100.00	12,914.00	13,101.85	9,559.00	87.06	58.21	54.24	-4,963.74	-3,874.68	5,734.13	5,610.48	123.64	46.377		
18,200.00	12,914.00	13,201.84	9,559.00	88.59	59.73	54.24	-5,063.73	-3,873.95	5,733.53	5,607.29	126.24	45.418		
18,300.00	12,914.00	13,301.84	9,559.00	90.13	61.26	54.23	-5,163.73	-3,873.21	5,732.93	5,604.09	128.85	44.494		
18,400.00	12,914.00	13,401.84	9,559.00	91.67	62.79	54.23	-5,263.72	-3,872.48	5,732.34	5,600.88	131.46	43.605		
18,500.00	12,914.00	13,501.84	9,559.00	93.21	64.33	54.22	-5,363.72	-3,871.75	5,731.74	5,597.66	134.08	42.749		
18,600.00	12,914.00	13,601.83	9,559.00	94.76	65.88	54.22	-5,463.71	-3,871.01	5,731.15	5,594.44	136.71	41.923		
18,700.00	12,914.00	13,701.83	9,559.00	96.31	67.43	54.21	-5,563.71	-3,870.28	5,730.55	5,591.21	139.34	41.127		
18,800.00	12,914.00	13,801.83	9,559.00	97.86	68.98	54.21	-5,663.70	-3,869.54	5,729.96	5,587.98	141.98	40.358		
18,900.00	12,914.00	13,901.83	9,559.00	99.42	70.54	54.21	-5,763.70	-3,868.81	5,729.36	5,584.74	144.62	39.616		
19,000.00	12,914.00	14,001.82	9,559.00	100.98	72.10	54.20	-5,863.69	-3,868.08	5,728.77	5,581.50	147.27	38.900		
19,100.00	12,914.00	14,101.82	9,559.00	102.54	73.66	54.20	-5,963.69	-3,867.34	5,728.17	5,578.25	149.92	38.207		
19,200.00	12,914.00	14,201.82	9,559.00	104.10	75.23	54.19	-6,063.68	-3,866.61	5,727.58	5,575.00	152.58	37.538		
19,300.00	12,914.00	14,301.81	9,559.00	105.67	76.80	54.19	-6,163.68	-3,865.88	5,726.98	5,571.74	155.24	36.890		

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

LEAM Drilling Systems LLC

Anticollision Report

Company: Devon Energy
Project: Lea County, NM (NAD-83)
Reference Site: Fighting Okra 18-19 Fed
Site Error: 0.00 usft
Reference Well: 85H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Plan #1

Local Co-ordinate Reference:
TVD Reference: 3369.1' GE + 25' KB @ 3394.10usft
MD Reference: 3369.1' GE + 25' KB @ 3394.10usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDM 5000.1 Multi User Db
Offset TVD Reference: Offset Datum

Offset Design - Fighting Okra 18-19 Fed - 4H - OH - Plan #1														Offset Site Error: 0.00 usft
Survey Program: O-LEAM MWD-HDGM														Offset Well Error: 0.00 usft
Reference	Offset	Semi Major Axis		Distance		Warning								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre (usft)	+N-S (usft)	+E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,100.00	5,092.07	5,286.33	5,267.21	11.42	12.47	-147.55	137.95	-1,251.22	1,392.39	1,369.73	22.66	61.455		
5,200.00	5,191.38	5,386.12	5,366.17	11.67	12.75	-147.79	137.95	-1,238.36	1,389.39	1,366.27	23.12	60.103		
5,300.00	5,290.69	5,485.91	5,465.13	11.93	13.04	-148.03	137.95	-1,225.50	1,386.41	1,362.84	23.58	58.801		
5,400.00	5,390.01	5,585.70	5,564.09	12.18	13.33	-148.27	137.95	-1,212.64	1,383.46	1,359.42	24.04	57.547		
5,500.00	5,489.32	5,685.49	5,663.04	12.44	13.61	-148.51	137.95	-1,199.78	1,380.53	1,356.03	24.50	56.339		
5,600.00	5,588.63	5,785.28	5,762.00	12.70	13.90	-148.75	137.95	-1,186.93	1,377.63	1,352.66	24.97	55.174		
5,700.00	5,687.94	5,885.07	5,860.96	12.96	14.19	-148.99	137.95	-1,174.07	1,374.75	1,349.31	25.43	54.051		
5,800.00	5,787.25	5,984.86	5,959.92	13.22	14.48	-149.23	137.95	-1,161.21	1,371.89	1,345.99	25.90	52.968		
5,900.00	5,886.56	6,084.65	6,058.87	13.48	14.77	-149.47	137.95	-1,148.35	1,369.06	1,342.69	26.37	51.921		
6,000.00	5,985.88	6,184.44	6,157.83	13.75	15.06	-149.72	137.95	-1,135.49	1,366.25	1,339.42	26.84	50.911		
6,100.00	6,085.19	6,284.23	6,256.79	14.01	15.36	-149.96	137.95	-1,122.63	1,363.47	1,336.17	27.30	49.935		
6,200.00	6,184.50	6,384.02	6,355.75	14.28	15.65	-150.21	137.95	-1,109.77	1,360.72	1,332.94	27.77	48.992		
6,300.00	6,283.81	6,483.81	6,454.70	14.55	15.94	-150.46	137.95	-1,096.91	1,357.99	1,329.74	28.24	48.080		
6,400.00	6,383.12	6,583.59	6,553.66	14.81	16.23	-150.71	137.95	-1,084.05	1,355.28	1,326.57	28.72	47.197		
6,500.00	6,482.43	6,683.38	6,652.62	15.08	16.53	-150.96	137.95	-1,071.19	1,352.60	1,323.42	29.19	46.343		
6,600.00	6,581.75	6,783.17	6,751.58	15.35	16.82	-151.21	137.95	-1,058.33	1,349.95	1,320.29	29.66	45.516		
6,700.00	6,681.06	6,882.96	6,850.53	15.62	17.12	-151.46	137.95	-1,045.47	1,347.32	1,317.19	30.13	44.715		
6,800.00	6,780.37	6,982.75	6,949.49	15.90	17.41	-151.71	137.95	-1,032.61	1,344.72	1,314.12	30.60	43.939		
6,900.00	6,879.68	7,082.54	7,048.45	16.17	17.71	-151.96	137.95	-1,019.75	1,342.15	1,311.07	31.08	43.187		
7,000.00	6,978.99	7,182.33	7,147.41	16.44	18.00	-152.22	137.95	-1,006.90	1,339.60	1,308.05	31.55	42.457		
7,100.00	7,078.30	7,282.12	7,246.36	16.71	18.30	-152.47	137.95	-994.04	1,337.08	1,305.05	32.03	41.749		
7,200.00	7,177.61	7,381.91	7,345.32	16.99	18.59	-152.73	137.95	-981.18	1,334.58	1,302.08	32.50	41.063		
7,300.00	7,276.92	7,481.70	7,444.28	17.26	18.89	-152.99	137.95	-968.32	1,332.11	1,299.14	32.98	40.396		
7,400.00	7,376.24	7,581.49	7,543.24	17.54	19.19	-153.25	137.95	-955.46	1,329.67	1,296.22	33.45	39.749		
7,500.00	7,475.55	7,681.28	7,642.19	17.81	19.49	-153.51	137.95	-942.60	1,327.26	1,293.33	33.93	39.120		
7,600.00	7,574.86	7,781.07	7,741.15	18.09	19.78	-153.77	137.95	-929.74	1,324.87	1,290.47	34.40	38.509		
7,700.00	7,674.17	7,880.86	7,840.11	18.37	20.08	-154.03	137.95	-916.88	1,322.51	1,287.63	34.88	37.915		
7,800.00	7,773.48	7,980.65	7,939.07	18.64	20.38	-154.29	137.95	-904.02	1,320.18	1,284.82	35.36	37.337		
7,900.00	7,872.80	8,080.44	8,038.03	18.92	20.68	-154.55	137.95	-891.16	1,317.88	1,282.04	35.84	36.775		
8,000.00	7,972.11	8,180.23	8,136.98	19.20	20.98	-154.81	137.95	-878.30	1,315.60	1,279.29	36.31	36.229		
8,100.00	8,071.42	8,280.02	8,235.94	19.48	21.27	-155.08	137.95	-865.44	1,313.35	1,276.56	36.79	35.697		
8,200.00	8,170.73	8,379.81	8,334.90	19.76	21.57	-155.34	137.95	-852.58	1,311.13	1,273.86	37.27	35.179		
8,300.00	8,270.04	8,479.60	8,433.86	20.04	21.87	-155.61	137.95	-839.73	1,308.94	1,271.19	37.75	34.674		
8,400.00	8,369.35	8,579.39	8,532.81	20.32	22.17	-155.88	137.95	-826.87	1,306.78	1,268.55	38.23	34.183		
8,500.00	8,468.66	8,679.18	8,631.77	20.60	22.47	-156.15	137.95	-814.01	1,304.64	1,265.93	38.71	33.704		
8,600.00	8,567.98	8,778.97	8,730.73	20.88	22.77	-156.42	137.95	-801.15	1,302.54	1,263.35	39.19	33.238		
8,700.00	8,667.29	8,878.76	8,829.69	21.16	23.07	-156.69	137.95	-788.29	1,300.46	1,260.79	39.67	32.783		
8,800.00	8,766.60	8,978.55	8,928.64	21.44	23.37	-156.96	137.95	-775.43	1,298.41	1,258.26	40.15	32.339		
8,900.00	8,865.91	9,078.33	9,027.60	21.72	23.67	-157.23	137.95	-762.57	1,296.40	1,255.76	40.63	31.907		
9,000.00	8,965.22	9,178.12	9,126.56	22.00	23.97	-157.50	137.95	-749.71	1,294.41	1,253.29	41.11	31.485		
9,100.00	9,064.53	9,277.91	9,225.52	22.28	24.27	-157.77	137.95	-736.85	1,292.45	1,250.85	41.59	31.073		
9,200.00	9,163.85	9,377.70	9,324.47	22.57	24.57	-158.05	137.95	-723.99	1,290.52	1,248.44	42.08	30.671		
9,300.00	9,263.16	9,477.49	9,423.43	22.85	24.87	-158.32	137.95	-711.13	1,288.62	1,246.06	42.56	30.279		
9,400.00	9,362.47	9,577.28	9,522.39	23.13	25.18	-158.60	137.95	-698.27	1,286.75	1,243.70	43.04	29.895		
9,500.00	9,461.78	9,677.07	9,621.35	23.41	25.48	-158.88	137.95	-685.41	1,284.91	1,241.38	43.52	29.521		
9,600.00	9,561.09	9,776.86	9,720.30	23.70	25.78	-159.15	137.95	-672.55	1,283.10	1,239.09	44.01	29.156		
9,700.00	9,660.40	9,876.65	9,819.26	23.98	26.08	-159.43	137.95	-659.70	1,281.32	1,236.82	44.49	28.798		
9,800.00	9,759.71	9,976.44	9,918.22	24.26	26.38	-159.71	137.95	-646.84	1,279.57	1,234.59	44.98	28.449		
9,900.00	9,859.03	10,076.23	10,017.18	24.55	26.68	-159.99	137.95	-633.98	1,277.85	1,232.39	45.46	28.108		
10,000.00	9,958.34	10,176.02	10,116.13	24.83	26.98	-160.27	137.95	-621.12	1,276.16	1,230.21	45.95	27.774		
10,100.00	10,057.65	10,275.81	10,215.09	25.11	27.29	-160.55	137.95	-608.26	1,274.50	1,228.07	46.43	27.448		
10,200.00	10,156.96	10,375.60	10,314.05	25.40	27.59	-160.83	137.95	-595.40	1,272.87	1,225.95	46.92	27.128		

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

LEAM Drilling Systems LLC

Anticollision Report

Company: Devon Energy
Project: Lea County, NM (NAD-83)
Reference Site: Fighting Okra 18-19 Fed
Site Error: 0.00 usft
Reference Well: 85H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Plan #1

Local Co-ordinate Reference: Well 85H
TVD Reference: 3369.1' GE + 25' KB @ 3394.10usft
MD Reference: 3369.1' GE + 25' KB @ 3394.10usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDM 5000.1 Multi User Db
Offset TVD Reference: Offset Datum

Offset Design Fighting Okra 18-19 Fed - 4H - OH - Plan #1													Offset Site Error: 0.00 usft
Survey Program: 0-LEAM MWD+HDGM													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Distance		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,300.00	10,256.27	10,466.13	10,403.84	25.68	27.84	-161.09	137.95	-583.89	1,271.47	1,224.08	47.39	26.832	
10,359.67	10,315.53	10,515.03	10,452.41	25.85	27.97	-161.22	137.95	-578.15	1,271.21	1,223.56	47.65	26.679	CC
10,400.00	10,355.58	10,548.10	10,485.27	25.97	28.04	-161.31	137.95	-574.51	1,271.33	1,223.51	47.82	26.587	
10,500.00	10,454.90	10,630.08	10,566.85	26.25	28.21	-161.52	137.95	-566.30	1,272.62	1,224.39	48.23	26.386	
10,600.00	10,554.21	10,712.05	10,648.51	26.54	28.38	-161.72	137.95	-559.26	1,275.33	1,226.70	48.64	26.222	
10,700.00	10,653.52	10,800.00	10,736.24	26.82	28.55	-161.92	137.95	-553.00	1,279.48	1,230.44	49.04	26.088	
10,800.00	10,752.83	10,875.78	10,811.89	27.11	28.69	-162.09	137.95	-548.69	1,285.01	1,235.59	49.42	26.001	
10,900.00	10,852.14	10,957.48	10,893.52	27.39	28.84	-162.25	137.95	-545.16	1,291.97	1,242.17	49.80	25.943	
11,000.00	10,951.45	11,039.03	10,975.04	27.68	28.97	-162.40	137.95	-542.80	1,300.32	1,250.15	50.17	25.918	
11,100.00	11,050.77	11,120.40	11,056.39	27.96	29.11	-162.54	137.95	-541.61	1,310.07	1,259.54	50.53	25.924	
11,178.62	11,128.84	11,188.75	11,124.74	28.19	29.21	-162.65	137.95	-541.44	1,318.67	1,267.83	50.84	25.939	
11,200.00	11,150.08	11,209.99	11,145.98	28.24	29.25	-162.69	137.95	-541.44	1,321.02	1,270.10	50.92	25.941	
11,300.00	11,249.53	11,309.44	11,245.43	28.46	29.43	-162.85	137.95	-541.44	1,331.03	1,279.72	51.31	25.939	
11,400.00	11,349.15	11,409.06	11,345.05	28.66	29.60	-162.99	137.95	-541.44	1,339.39	1,287.68	51.70	25.906	
11,500.00	11,448.90	11,508.81	11,444.80	28.86	29.78	-163.09	137.95	-541.44	1,346.08	1,294.00	52.09	25.843	
11,600.00	11,548.76	11,608.67	11,544.66	29.05	29.96	-163.17	137.95	-541.44	1,351.11	1,298.65	52.47	25.751	
11,700.00	11,648.70	11,708.61	11,644.60	29.22	30.13	-163.22	137.95	-541.44	1,354.48	1,301.63	52.85	25.631	
11,800.00	11,748.68	11,808.59	11,744.58	29.39	30.31	-163.25	137.95	-541.44	1,356.17	1,302.95	53.22	25.482	
11,851.32	11,800.00	11,859.91	11,795.90	29.47	30.41	-103.34	137.95	-541.44	1,356.39	1,302.98	53.41	25.395	
11,900.00	11,848.68	11,908.59	11,844.58	29.56	30.49	-103.34	137.95	-541.44	1,356.39	1,302.79	53.60	25.304	
12,000.00	11,948.68	12,008.59	11,944.58	29.75	30.67	-103.34	137.95	-541.44	1,356.39	1,302.38	54.01	25.113	
12,100.00	12,048.68	12,108.59	12,044.58	29.94	30.85	-103.34	137.95	-541.44	1,356.39	1,301.97	54.42	24.924	
12,108.38	12,057.06	12,116.97	12,052.96	29.96	30.87	-103.34	137.95	-541.44	1,356.39	1,301.93	54.46	24.908	
12,200.00	12,148.68	12,189.63	12,125.60	30.14	31.00	-103.39	136.91	-541.44	1,356.76	1,302.00	54.77	24.774	
12,300.00	12,248.68	12,250.00	12,185.56	30.33	31.10	-103.67	130.10	-541.44	1,359.50	1,304.48	55.03	24.706	
12,392.36	12,341.04	12,310.16	12,244.27	30.51	31.20	-104.20	117.08	-541.44	1,364.51	1,309.23	55.28	24.684	
12,400.00	12,348.68	12,314.75	12,248.68	30.52	31.20	75.70	115.84	-541.44	1,365.02	1,309.73	55.30	24.686	
12,450.00	12,398.58	12,350.00	12,282.25	30.59	31.26	75.04	105.10	-541.44	1,368.22	1,312.81	55.42	24.689	
12,500.00	12,448.05	12,374.49	12,305.16	30.65	31.30	74.57	96.44	-541.44	1,371.03	1,315.56	55.47	24.718	
12,550.00	12,496.70	12,400.00	12,328.60	30.70	31.35	74.15	86.38	-541.44	1,373.46	1,317.95	55.50	24.746	
12,600.00	12,544.16	12,433.84	12,358.96	30.73	31.40	73.76	71.45	-541.44	1,375.42	1,319.85	55.58	24.749	
12,650.00	12,590.08	12,463.42	12,384.74	30.75	31.45	73.49	56.95	-541.44	1,376.93	1,321.32	55.61	24.761	
12,700.00	12,634.11	12,500.00	12,415.53	30.76	31.51	73.30	37.21	-541.44	1,377.97	1,322.28	55.68	24.747	
12,750.00	12,675.90	12,522.47	12,433.79	30.75	31.55	73.23	24.13	-541.44	1,378.44	1,322.79	55.65	24.769	
12,800.00	12,715.15	12,550.00	12,455.45	30.74	31.60	73.23	7.13	-541.44	1,378.43	1,322.78	55.65	24.769	
12,850.00	12,751.55	12,581.48	12,479.18	30.73	31.66	73.32	-13.55	-541.44	1,377.90	1,322.22	55.68	24.745	
12,900.00	12,784.82	12,611.02	12,500.38	30.70	31.72	73.51	-34.11	-541.44	1,376.87	1,321.16	55.71	24.716	
12,950.00	12,814.72	12,650.00	12,526.69	30.68	31.79	73.82	-62.86	-541.44	1,375.40	1,319.58	55.82	24.642	
13,000.00	12,841.01	12,670.24	12,539.56	30.65	31.83	74.14	-78.48	-541.44	1,373.35	1,317.56	55.79	24.618	
13,050.00	12,863.50	12,700.00	12,557.47	30.62	31.90	74.59	-102.25	-541.44	1,370.91	1,315.06	55.85	24.546	
13,100.00	12,882.01	12,729.78	12,574.12	30.60	31.96	75.12	-126.93	-541.44	1,368.07	1,312.13	55.94	24.456	
13,150.00	12,896.40	12,759.72	12,589.55	30.59	32.04	75.73	-152.58	-541.44	1,364.87	1,308.82	56.05	24.351	
13,200.00	12,906.57	12,789.80	12,603.69	30.59	32.11	76.42	-179.13	-541.44	1,361.36	1,305.17	56.19	24.228	
13,250.00	12,912.43	12,820.05	12,616.48	30.61	32.19	77.18	-206.54	-541.44	1,357.60	1,301.24	56.36	24.089	
13,292.36	12,914.00	12,850.00	12,627.70	30.63	32.28	77.93	-234.31	-541.44	1,354.27	1,297.71	56.56	23.944	
13,300.00	12,914.00	12,850.00	12,627.70	30.64	32.28	77.93	-234.31	-541.44	1,353.66	1,297.11	56.55	23.937	
13,400.00	12,914.00	12,914.23	12,646.78	30.78	32.48	78.72	-295.60	-541.44	1,347.36	1,290.34	57.03	23.627	
13,500.00	12,914.00	12,981.70	12,659.31	31.01	32.73	79.25	-361.86	-541.44	1,343.74	1,286.17	57.57	23.342	
13,600.00	12,914.00	13,051.26	12,663.99	31.35	33.02	79.45	-431.22	-541.44	1,342.49	1,284.33	58.16	23.084	
13,635.24	12,914.00	13,084.88	12,664.00	31.49	33.17	79.45	-464.84	-541.44	1,342.48	1,284.01	58.47	22.960	
13,700.00	12,914.00	13,149.64	12,664.00	31.78	33.48	79.45	-529.60	-541.44	1,342.48	1,283.37	59.11	22.712	
13,800.00	12,914.00	13,249.64	12,664.00	32.29	34.03	79.45	-629.60	-541.44	1,342.48	1,282.26	60.23	22.291	

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

LEAM Drilling Systems LLC

Anticollision Report

Company: Devon Energy
 Project: Lea County, NM (NAD-83)
 Reference Site: Fighting Okra 18-19 Fed
 Site Error: 0.00 usft
 Reference Well: 85H
 Well Error: 0.00 usft
 Reference Wellbore: OH
 Reference Design: Plan #1

Local Co-ordinate Reference: Well 85H
 TVD Reference: 3369.1' GE + 25' KB @ 3394.10usft
 MD Reference: 3369.1' GE + 25' KB @ 3394.10usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Output errors are at: 2.00 sigma
 Database: EDM 5000.1 Multi User Db
 Offset TVD Reference: Offset Datum

Offset Design Fighting Okra 18-19 Fed - 4H - OH - Plan #1													Offset Site Error: 0.00 usft
Survey Program: O-LEAM MWD+HDGM													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance				Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N-S (usft)	+E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
13,900.00	12,914.00	13,349.64	12,664.00	32.89	34.65	79.45	-729.60	-541.44	1,342.48	1,280.99	61.49	21.832	
14,000.00	12,914.00	13,449.64	12,664.00	33.57	35.33	79.45	-829.60	-541.44	1,342.48	1,279.59	62.90	21.344	
14,100.00	12,914.00	13,549.64	12,664.00	34.31	36.07	79.45	-929.60	-541.44	1,342.48	1,278.05	64.43	20.836	
14,200.00	12,914.00	13,649.64	12,664.00	35.11	36.88	79.45	-1,029.60	-541.44	1,342.48	1,276.39	66.09	20.313	
14,300.00	12,914.00	13,749.64	12,664.00	35.97	37.74	79.45	-1,129.60	-541.44	1,342.48	1,274.62	67.86	19.783	
14,400.00	12,914.00	13,849.64	12,664.00	36.89	38.64	79.45	-1,229.60	-541.44	1,342.48	1,272.75	69.73	19.251	
14,500.00	12,914.00	13,949.64	12,664.00	37.85	39.60	79.45	-1,329.60	-541.44	1,342.48	1,270.78	71.71	18.722	
14,600.00	12,914.00	14,049.64	12,664.00	38.86	40.60	79.45	-1,429.60	-541.44	1,342.48	1,268.72	73.76	18.200	
14,700.00	12,914.00	14,149.64	12,664.00	39.91	41.64	79.45	-1,529.60	-541.44	1,342.48	1,266.58	75.90	17.686	
14,800.00	12,914.00	14,249.64	12,664.00	41.00	42.72	79.45	-1,629.60	-541.44	1,342.48	1,264.36	78.12	17.185	
14,900.00	12,914.00	14,349.64	12,664.00	42.12	43.83	79.45	-1,729.60	-541.44	1,342.48	1,262.08	80.40	16.697	
15,000.00	12,914.00	14,449.64	12,664.00	43.28	44.97	79.45	-1,829.60	-541.44	1,342.48	1,259.73	82.75	16.224	
15,100.00	12,914.00	14,549.64	12,664.00	44.46	46.15	79.45	-1,929.60	-541.44	1,342.48	1,257.33	85.15	15.766	
15,200.00	12,914.00	14,649.64	12,664.00	45.68	47.35	79.45	-2,029.60	-541.44	1,342.48	1,254.88	87.61	15.324	
15,300.00	12,914.00	14,749.64	12,664.00	46.92	48.57	79.45	-2,129.60	-541.44	1,342.48	1,252.37	90.11	14.898	
15,400.00	12,914.00	14,849.64	12,664.00	48.18	49.82	79.45	-2,229.60	-541.44	1,342.48	1,249.82	92.66	14.488	
15,500.00	12,914.00	14,949.64	12,664.00	49.46	51.09	79.45	-2,329.60	-541.44	1,342.48	1,247.23	95.25	14.094	
15,600.00	12,914.00	15,049.64	12,664.00	50.77	52.39	79.45	-2,429.60	-541.44	1,342.48	1,244.60	97.88	13.716	
15,700.00	12,914.00	15,149.64	12,664.00	52.09	53.70	79.45	-2,529.60	-541.44	1,342.48	1,241.94	100.54	13.353	
15,800.00	12,914.00	15,249.64	12,664.00	53.43	55.02	79.45	-2,629.60	-541.44	1,342.48	1,239.25	103.24	13.004	
15,900.00	12,914.00	15,349.64	12,664.00	54.78	56.37	79.45	-2,729.60	-541.44	1,342.48	1,236.52	105.96	12.670	
16,000.00	12,914.00	15,449.64	12,664.00	56.15	57.73	79.45	-2,829.60	-541.44	1,342.48	1,233.77	108.71	12.349	
16,100.00	12,914.00	15,549.64	12,664.00	57.54	59.10	79.45	-2,929.60	-541.44	1,342.48	1,231.00	111.49	12.042	
16,200.00	12,914.00	15,649.64	12,664.00	58.94	60.49	79.45	-3,029.60	-541.44	1,342.48	1,228.19	114.29	11.746	
16,300.00	12,914.00	15,749.64	12,664.00	60.34	61.88	79.45	-3,129.60	-541.44	1,342.48	1,225.37	117.11	11.463	
16,400.00	12,914.00	15,849.64	12,664.00	61.76	63.29	79.45	-3,229.60	-541.44	1,342.48	1,222.53	119.95	11.192	
16,500.00	12,914.00	15,949.64	12,664.00	63.19	64.71	79.45	-3,329.60	-541.44	1,342.48	1,219.67	122.81	10.931	
16,600.00	12,914.00	16,049.64	12,664.00	64.63	66.14	79.45	-3,429.60	-541.44	1,342.48	1,216.79	125.69	10.681	
16,700.00	12,914.00	16,149.64	12,664.00	66.08	67.58	79.45	-3,529.60	-541.44	1,342.48	1,213.89	128.59	10.440	
16,800.00	12,914.00	16,249.64	12,664.00	67.54	69.03	79.45	-3,629.60	-541.44	1,342.48	1,210.98	131.50	10.209	
16,900.00	12,914.00	16,349.64	12,664.00	69.01	70.49	79.45	-3,729.60	-541.44	1,342.48	1,208.06	134.42	9.987	
17,000.00	12,914.00	16,449.64	12,664.00	70.48	71.95	79.45	-3,829.60	-541.44	1,342.48	1,205.12	137.36	9.773	
17,100.00	12,914.00	16,549.64	12,664.00	71.96	73.42	79.45	-3,929.60	-541.44	1,342.48	1,202.17	140.31	9.568	
17,200.00	12,914.00	16,649.64	12,664.00	73.44	74.90	79.45	-4,029.60	-541.44	1,342.48	1,199.21	143.28	9.370	
17,300.00	12,914.00	16,749.64	12,664.00	74.94	76.38	79.45	-4,129.60	-541.44	1,342.48	1,196.23	146.25	9.179	
17,400.00	12,914.00	16,849.64	12,664.00	76.43	77.87	79.45	-4,229.60	-541.44	1,342.48	1,193.25	149.23	8.996	
17,500.00	12,914.00	16,949.64	12,664.00	77.94	79.37	79.45	-4,329.60	-541.44	1,342.48	1,190.26	152.23	8.819	
17,600.00	12,914.00	17,049.64	12,664.00	79.45	80.87	79.45	-4,429.60	-541.44	1,342.48	1,187.25	155.23	8.648	
17,700.00	12,914.00	17,149.64	12,664.00	80.96	82.38	79.45	-4,529.60	-541.44	1,342.48	1,184.24	158.24	8.484	
17,800.00	12,914.00	17,249.64	12,664.00	82.48	83.89	79.45	-4,629.60	-541.44	1,342.48	1,181.22	161.26	8.325	
17,900.00	12,914.00	17,349.64	12,664.00	84.00	85.40	79.45	-4,729.60	-541.44	1,342.48	1,178.19	164.29	8.171	
18,000.00	12,914.00	17,449.64	12,664.00	85.53	86.92	79.45	-4,829.60	-541.44	1,342.48	1,175.16	167.33	8.023	
18,100.00	12,914.00	17,549.64	12,664.00	87.06	88.45	79.45	-4,929.60	-541.44	1,342.48	1,172.11	170.37	7.880	
18,200.00	12,914.00	17,649.64	12,664.00	88.59	89.97	79.45	-5,029.60	-541.44	1,342.48	1,169.07	173.42	7.741	
18,300.00	12,914.00	17,749.64	12,664.00	90.13	91.51	79.45	-5,129.60	-541.44	1,342.48	1,166.01	176.47	7.607	
18,400.00	12,914.00	17,849.64	12,664.00	91.67	93.04	79.45	-5,229.60	-541.44	1,342.48	1,162.95	179.53	7.478	
18,500.00	12,914.00	17,949.64	12,664.00	93.21	94.58	79.45	-5,329.60	-541.44	1,342.48	1,159.88	182.60	7.352	
18,600.00	12,914.00	18,049.64	12,664.00	94.76	96.12	79.45	-5,429.60	-541.44	1,342.48	1,156.81	185.67	7.230	
18,700.00	12,914.00	18,149.64	12,664.00	96.31	97.67	79.45	-5,529.60	-541.44	1,342.48	1,153.73	188.75	7.113	
18,800.00	12,914.00	18,249.64	12,664.00	97.86	99.21	79.45	-5,629.60	-541.44	1,342.48	1,150.65	191.83	6.998	
18,900.00	12,914.00	18,349.64	12,664.00	99.42	100.76	79.45	-5,729.60	-541.44	1,342.48	1,147.57	194.92	6.887	
19,000.00	12,914.00	18,449.64	12,664.00	100.98	102.32	79.45	-5,829.60	-541.44	1,342.48	1,144.48	198.01	6.780	

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

LEAM Drilling Systems LLC

Anticollision Report

Company: Devon Energy
Project: Lea County, NM (NAD-83)
Reference Site: Fighting Okra 18-19 Fed
Site Error: 0.00 usft
Reference Well: 85H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Plan #1

Local Co-ordinate Reference: Well 85H
TVD Reference: 3369.1' GE + 25' KB @ 3394.10usft
MD Reference: 3369.1' GE + 25' KB @ 3394.10usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDM 5000.1 Multi User Db
Offset TVD Reference: Offset Datum

Offset Design: Fighting Okra 18-19 Fed - 4H - OH - Plan #1													Offset Site Error: 0.00 usft
Survey Program: 0-LEAM MWD+HDGM													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Distance		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N-S (usft)	+E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,100.00	12,914.00	18,549.64	12,664.00	102.54	103.87	79.45	-5,929.60	-541.44	1,342.48	1,141.38	201.10	6.676	
19,200.00	12,914.00	18,649.64	12,664.00	104.10	105.43	79.45	-6,029.60	-541.44	1,342.48	1,138.28	204.20	6.574	
19,300.00	12,914.00	18,749.64	12,664.00	105.67	106.99	79.45	-6,129.60	-541.44	1,342.48	1,135.18	207.30	6.476	
19,400.00	12,914.00	18,849.64	12,664.00	107.23	108.55	79.45	-6,229.60	-541.44	1,342.48	1,132.07	210.41	6.380	
19,500.00	12,914.00	18,949.64	12,664.00	108.80	110.11	79.45	-6,329.60	-541.44	1,342.48	1,128.96	213.52	6.287	
19,600.00	12,914.00	19,049.64	12,664.00	110.37	111.68	79.45	-6,429.60	-541.44	1,342.48	1,125.85	216.63	6.197	
19,700.00	12,914.00	19,149.64	12,664.00	111.94	113.25	79.45	-6,529.60	-541.44	1,342.48	1,122.73	219.75	6.109	
19,800.00	12,914.00	19,249.64	12,664.00	113.52	114.82	79.45	-6,629.60	-541.44	1,342.48	1,119.61	222.87	6.024	
19,900.00	12,914.00	19,349.64	12,664.00	115.09	116.39	79.45	-6,729.60	-541.44	1,342.48	1,116.49	225.99	5.940	
20,000.00	12,914.00	19,449.64	12,664.00	116.67	117.96	79.45	-6,829.60	-541.44	1,342.48	1,113.36	229.12	5.859	
20,100.00	12,914.00	19,549.64	12,664.00	118.25	119.54	79.45	-6,929.60	-541.44	1,342.48	1,110.24	232.25	5.780	
20,200.00	12,914.00	19,649.64	12,664.00	119.83	121.12	79.45	-7,029.60	-541.44	1,342.48	1,107.11	235.38	5.704	
20,300.00	12,914.00	19,749.64	12,664.00	121.41	122.69	79.45	-7,129.60	-541.44	1,342.48	1,103.97	238.51	5.629	
20,400.00	12,914.00	19,849.64	12,664.00	123.00	124.27	79.45	-7,229.60	-541.44	1,342.48	1,100.84	241.65	5.556	
20,500.00	12,914.00	19,949.64	12,664.00	124.58	125.86	79.45	-7,329.60	-541.44	1,342.48	1,097.70	244.78	5.484	
20,600.00	12,914.00	20,049.64	12,664.00	126.17	127.44	79.45	-7,429.60	-541.44	1,342.48	1,094.56	247.92	5.415	
20,700.00	12,914.00	20,149.64	12,664.00	127.75	129.02	79.45	-7,529.60	-541.44	1,342.48	1,091.42	251.07	5.347	
20,800.00	12,914.00	20,249.64	12,664.00	129.34	130.61	79.45	-7,629.60	-541.44	1,342.48	1,088.27	254.21	5.281	
20,900.00	12,914.00	20,349.64	12,664.00	130.93	132.19	79.45	-7,729.60	-541.44	1,342.48	1,085.13	257.36	5.216	
21,000.00	12,914.00	20,449.64	12,664.00	132.52	133.78	79.45	-7,829.60	-541.44	1,342.48	1,081.98	260.51	5.153	
21,100.00	12,914.00	20,549.64	12,664.00	134.11	135.37	79.45	-7,929.60	-541.44	1,342.48	1,078.83	263.66	5.092	
21,200.00	12,914.00	20,649.64	12,664.00	135.71	136.96	79.45	-8,029.60	-541.44	1,342.48	1,075.68	266.81	5.032	
21,300.00	12,914.00	20,749.64	12,664.00	137.30	138.55	79.45	-8,129.60	-541.44	1,342.48	1,072.52	269.96	4.973	
21,400.00	12,914.00	20,849.64	12,664.00	138.90	140.14	79.45	-8,229.60	-541.44	1,342.48	1,069.37	273.12	4.915	
21,500.00	12,914.00	20,949.64	12,664.00	140.49	141.73	79.45	-8,329.60	-541.44	1,342.48	1,066.21	276.27	4.859	
21,600.00	12,914.00	21,049.64	12,664.00	142.09	143.33	79.45	-8,429.60	-541.44	1,342.48	1,063.05	279.43	4.804	
21,700.00	12,914.00	21,149.64	12,664.00	143.68	144.92	79.45	-8,529.60	-541.44	1,342.48	1,059.89	282.59	4.751	
21,800.00	12,914.00	21,249.64	12,664.00	145.28	146.52	79.45	-8,629.60	-541.44	1,342.48	1,056.73	285.75	4.698	
21,900.00	12,914.00	21,349.64	12,664.00	146.88	148.11	79.45	-8,729.60	-541.44	1,342.48	1,053.57	288.91	4.647	
22,000.00	12,914.00	21,449.64	12,664.00	148.48	149.71	79.45	-8,829.60	-541.44	1,342.48	1,050.40	292.08	4.596	
22,100.00	12,914.00	21,549.64	12,664.00	150.08	151.31	79.45	-8,929.60	-541.44	1,342.48	1,047.24	295.24	4.547	
22,200.00	12,914.00	21,649.64	12,664.00	151.68	152.90	79.45	-9,029.60	-541.44	1,342.48	1,044.07	298.41	4.499	
22,300.00	12,914.00	21,749.64	12,664.00	153.28	154.50	79.45	-9,129.60	-541.44	1,342.48	1,040.90	301.58	4.452	
22,400.00	12,914.00	21,849.64	12,664.00	154.89	156.10	79.45	-9,229.60	-541.44	1,342.48	1,037.74	304.75	4.405	
22,500.00	12,914.00	21,949.64	12,664.00	156.49	157.70	79.45	-9,329.60	-541.44	1,342.48	1,034.57	307.92	4.360	
22,600.00	12,914.00	22,049.64	12,664.00	158.09	159.31	79.45	-9,429.60	-541.44	1,342.48	1,031.39	311.09	4.315	
22,700.00	12,914.00	22,149.64	12,664.00	159.70	160.91	79.45	-9,529.60	-541.44	1,342.48	1,028.22	314.26	4.272	
22,800.00	12,914.00	22,249.64	12,664.00	161.30	162.51	79.45	-9,629.60	-541.44	1,342.48	1,025.05	317.43	4.229	
22,867.23	12,914.00	22,316.87	12,664.00	162.38	163.59	79.45	-9,696.83	-541.44	1,342.48	1,022.91	319.57	4.201 ES, SF	

LEAM Drilling Systems LLC

Anticollision Report

Company: Devon Energy
 Project: Lea County, NM (NAD-83)
 Reference Site: Fighting Okra 18-19 Fed
 Site Error: 0.00 usft
 Reference Well: 85H
 Well Error: 0.00 usft
 Reference Wellbore: OH
 Reference Design: Plan #1

Local Co-ordinate Reference: Well 85H
 TVD Reference: 3369.1' GE + 25' KB @ 3394.10usft
 MD Reference: 3369.1' GE + 25' KB @ 3394.10usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Output errors are at: 2.00 sigma
 Database: EDM 5000.1 Multi User Db
 Offset TVD Reference: Offset Datum

Offset Design Fighting Okra 18-19 Fed - 5H - OH - Plan #1													Offset Site Error: 0.00 usft
Survey Program: O-LEAM MWD+HDGM													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N-S (usft)	+E-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	0.00	0.00	0.00	0.00	-85.18	137.95	-1,637.56	1,643.37				
100.00	100.00	95.90	95.90	0.08	0.08	-85.18	137.95	-1,637.56	1,643.36	1,643.20	0.17	9,952.583	
200.00	200.00	195.90	195.90	0.31	0.30	-85.18	137.95	-1,637.56	1,643.36	1,642.75	0.61	2,698.938	
300.00	300.00	295.90	295.90	0.53	0.52	-85.18	137.95	-1,637.56	1,643.36	1,642.30	1.06	1,552.649	
400.00	400.00	395.90	395.90	0.76	0.75	-85.18	137.95	-1,637.56	1,643.36	1,641.85	1.51	1,089.794	
500.00	500.00	495.90	495.90	0.98	0.97	-85.18	137.95	-1,637.56	1,643.36	1,641.40	1.96	839.525	
600.00	600.00	595.90	595.90	1.21	1.20	-85.18	137.95	-1,637.56	1,643.36	1,640.95	2.41	682.737	
700.00	700.00	695.90	695.90	1.43	1.42	-85.18	137.95	-1,637.56	1,643.36	1,640.50	2.86	575.295	
800.00	800.00	795.90	795.90	1.66	1.65	-85.18	137.95	-1,637.56	1,643.36	1,640.05	3.31	497.072	
900.00	900.00	895.90	895.90	1.88	1.87	-85.18	137.95	-1,637.56	1,643.36	1,639.60	3.76	437.574	
1,000.00	1,000.00	995.90	995.90	2.11	2.10	-85.18	137.95	-1,637.56	1,643.36	1,639.16	4.21	390.797	
1,100.00	1,100.00	1,095.90	1,095.90	2.33	2.32	-85.18	137.95	-1,637.56	1,643.36	1,638.71	4.65	353.055	
1,200.00	1,200.00	1,195.90	1,195.90	2.56	2.55	-85.18	137.95	-1,637.56	1,643.36	1,638.26	5.10	321.962	
1,300.00	1,300.00	1,295.90	1,295.90	2.78	2.77	-85.18	137.95	-1,637.56	1,643.36	1,637.81	5.55	295.901	
1,400.00	1,400.00	1,395.90	1,395.90	3.01	3.00	-85.18	137.95	-1,637.56	1,643.36	1,637.36	6.00	273.744	
1,500.00	1,500.00	1,495.90	1,495.90	3.23	3.22	-85.18	137.95	-1,637.56	1,643.36	1,636.91	6.45	254.674	
1,600.00	1,600.00	1,595.90	1,595.90	3.46	3.45	-85.18	137.95	-1,637.56	1,643.36	1,636.46	6.90	238.087	
1,700.00	1,700.00	1,695.90	1,695.90	3.68	3.67	-85.18	137.95	-1,637.56	1,643.36	1,636.01	7.35	223.529	
1,800.00	1,800.00	1,795.90	1,795.90	3.91	3.90	-85.18	137.95	-1,637.56	1,643.36	1,635.56	7.80	210.649	
1,900.00	1,900.00	1,895.90	1,895.90	4.13	4.12	-85.18	137.95	-1,637.56	1,643.36	1,635.11	8.25	199.173	
2,000.00	2,000.00	1,995.90	1,995.90	4.35	4.35	-85.18	137.95	-1,637.56	1,643.36	1,634.66	8.70	188.882	
2,100.00	2,100.00	2,095.90	2,095.90	4.58	4.57	-85.18	137.95	-1,637.56	1,643.36	1,634.21	9.15	179.602	
2,200.00	2,200.00	2,195.90	2,195.90	4.80	4.80	-85.18	137.95	-1,637.56	1,643.36	1,633.76	9.60	171.192	
2,300.00	2,300.00	2,295.90	2,295.90	5.03	5.02	-85.18	137.95	-1,637.56	1,643.36	1,633.31	10.05	163.534	
2,400.00	2,400.00	2,395.90	2,395.90	5.25	5.24	-85.18	137.95	-1,637.56	1,643.36	1,632.86	10.50	156.531	
2,500.00	2,500.00	2,495.90	2,495.90	5.48	5.47	-85.18	137.95	-1,637.56	1,643.36	1,632.41	10.95	150.104	
2,600.00	2,600.00	2,595.90	2,595.90	5.70	5.69	-85.18	137.95	-1,637.56	1,643.36	1,631.96	11.40	144.184	
2,700.00	2,700.00	2,695.90	2,695.90	5.93	5.92	-85.18	137.95	-1,637.56	1,643.36	1,631.51	11.85	138.713	
2,800.00	2,800.00	2,795.90	2,795.90	6.15	6.14	-85.18	137.95	-1,637.56	1,643.36	1,631.06	12.30	133.642	
2,900.00	2,900.00	2,895.90	2,895.90	6.38	6.37	-85.18	137.95	-1,637.56	1,643.36	1,630.61	12.75	128.929	
3,000.00	3,000.00	2,995.90	2,995.90	6.60	6.59	-85.18	137.95	-1,637.56	1,643.36	1,630.16	13.20	124.537	
3,100.00	3,100.00	3,095.90	3,095.90	6.83	6.82	-85.18	137.95	-1,637.56	1,643.36	1,629.71	13.65	120.434	
3,200.00	3,200.00	3,195.90	3,195.90	7.05	7.04	-85.18	137.95	-1,637.56	1,643.36	1,629.27	14.09	116.593	
3,300.00	3,300.00	3,295.90	3,295.90	7.28	7.27	-85.18	137.95	-1,637.56	1,643.36	1,628.82	14.54	112.989	
3,400.00	3,400.00	3,395.90	3,395.90	7.50	7.49	-85.18	137.95	-1,637.56	1,643.36	1,628.37	14.99	109.602	
3,500.00	3,500.00	3,495.90	3,495.90	7.73	7.72	-85.18	137.95	-1,637.56	1,643.36	1,627.92	15.44	106.411	
3,600.00	3,600.00	3,622.14	3,622.13	7.94	7.99	-145.09	138.73	-1,636.52	1,643.31	1,627.38	15.93	103.133	
3,700.00	3,699.96	3,749.48	3,749.40	8.16	8.27	-145.06	141.19	-1,633.21	1,643.03	1,626.62	16.41	100.127	
3,800.00	3,799.86	3,876.79	3,876.52	8.37	8.54	-145.01	145.35	-1,627.63	1,642.51	1,625.63	16.88	97.296	
3,890.59	3,890.29	3,978.31	3,977.78	8.56	8.76	-144.97	149.74	-1,621.74	1,642.06	1,624.78	17.29	94.995 CC	
3,900.00	3,899.68	3,987.72	3,987.16	8.58	8.79	-144.96	150.16	-1,621.17	1,642.07	1,624.74	17.33	94.775 ES	
4,000.00	3,999.37	4,087.72	4,086.87	8.80	9.01	-144.94	154.61	-1,615.19	1,642.92	1,625.16	17.75	92.535	
4,100.00	4,098.90	4,187.69	4,186.57	9.02	9.23	-144.95	159.07	-1,609.21	1,645.19	1,627.01	18.19	90.465	
4,172.70	4,171.16	4,260.34	4,259.01	9.19	9.39	-144.97	162.31	-1,604.86	1,647.75	1,629.25	18.50	89.060	
4,200.00	4,198.27	4,287.61	4,286.21	9.25	9.45	-144.99	163.52	-1,603.23	1,648.85	1,630.23	18.62	88.551	
4,300.00	4,297.58	4,387.51	4,385.83	9.48	9.68	-145.05	167.98	-1,597.26	1,652.88	1,633.82	19.06	86.733	
4,400.00	4,396.89	4,487.42	4,485.46	9.71	9.90	-145.11	172.43	-1,591.28	1,656.92	1,637.42	19.50	84.984	
4,500.00	4,496.20	4,587.32	4,585.08	9.95	10.13	-145.17	176.88	-1,585.30	1,660.95	1,641.01	19.94	83.302	
4,600.00	4,595.51	4,687.22	4,684.71	10.19	10.36	-145.23	181.33	-1,579.33	1,664.99	1,644.61	20.38	81.684	
4,700.00	4,694.83	4,787.12	4,784.33	10.43	10.59	-145.29	185.78	-1,573.35	1,669.03	1,648.20	20.83	80.126	
4,800.00	4,794.14	4,887.03	4,883.96	10.67	10.82	-145.35	190.24	-1,567.37	1,673.07	1,651.79	21.28	78.626	
4,900.00	4,893.45	4,986.93	4,983.58	10.92	11.05	-145.41	194.69	-1,561.40	1,677.12	1,655.39	21.73	77.181	

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

LEAM Drilling Systems LLC

Anticollision Report

Company: Devon Energy
Project: Lea County, NM (NAD-83)
Reference Site: Fighting Okra 18-19 Fed
Site Error: 0.00 usft
Reference Well: 85H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Plan #1

Local Co-ordinate Reference: Well 85H
TVD Reference: 3369.1' GE + 25' KB @ 3394.10usft
MD Reference: 3369.1' GE + 25' KB @ 3394.10usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDM 5000.1 Multi User Db
Offset TVD Reference: Offset Datum

Offset Design Fighting Okra 18-19 Fed - 5H - OH - Plan #1												Offset Site Error: 0.00 usft
Survey Program: O-LEAM MWD+HDGM												Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Distance		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)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	
5,000.00	4,992.76	5,086.83	5,083.21	11.17	11.28	-145.47	199.14	-1,555.42	1,681.16	1,658.98	22.18	75.788
5,100.00	5,092.07	5,186.74	5,182.83	11.42	11.52	-145.53	203.59	-1,549.44	1,685.21	1,662.57	22.64	74.446
5,200.00	5,191.38	5,286.64	5,282.45	11.67	11.75	-145.59	208.05	-1,543.47	1,689.26	1,666.17	23.09	73.152
5,300.00	5,290.69	5,386.54	5,382.08	11.93	11.99	-145.65	212.50	-1,537.49	1,693.31	1,669.76	23.55	71.903
5,400.00	5,390.01	5,486.44	5,481.70	12.18	12.22	-145.71	216.95	-1,531.51	1,697.36	1,673.35	24.01	70.698
5,500.00	5,489.32	5,586.35	5,581.33	12.44	12.46	-145.77	221.40	-1,525.54	1,701.42	1,676.95	24.47	69.535
5,600.00	5,588.63	5,686.25	5,680.95	12.70	12.69	-145.82	225.86	-1,519.56	1,705.47	1,680.54	24.93	68.411
5,700.00	5,687.94	5,786.15	5,780.58	12.96	12.93	-145.88	230.31	-1,513.58	1,709.53	1,684.14	25.39	67.325
5,800.00	5,787.25	5,886.06	5,880.20	13.22	13.17	-145.94	234.76	-1,507.61	1,713.59	1,687.73	25.86	66.275
5,900.00	5,886.56	5,985.96	5,979.83	13.48	13.41	-145.99	239.21	-1,501.63	1,717.65	1,691.33	26.32	65.260
6,000.00	5,985.88	6,085.86	6,079.45	13.75	13.65	-146.05	243.67	-1,495.65	1,721.71	1,694.93	26.79	64.277
6,100.00	6,085.19	6,185.76	6,179.08	14.01	13.89	-146.11	248.12	-1,489.68	1,725.78	1,698.53	27.25	63.327
6,200.00	6,184.50	6,285.67	6,278.70	14.28	14.13	-146.16	252.57	-1,483.70	1,729.85	1,702.13	27.72	62.406
6,300.00	6,283.81	6,385.57	6,378.32	14.55	14.37	-146.22	257.02	-1,477.72	1,733.91	1,705.73	28.19	61.514
6,400.00	6,383.12	6,485.47	6,477.95	14.81	14.61	-146.28	261.48	-1,471.75	1,737.98	1,709.33	28.66	60.650
6,500.00	6,482.43	6,585.38	6,577.57	15.08	14.85	-146.33	265.93	-1,465.77	1,742.06	1,712.93	29.13	59.812
6,600.00	6,581.75	6,685.28	6,677.20	15.35	15.09	-146.39	270.38	-1,459.79	1,746.13	1,716.53	29.60	58.999
6,700.00	6,681.06	6,785.18	6,776.82	15.62	15.33	-146.44	274.83	-1,453.82	1,750.20	1,720.14	30.07	58.211
6,800.00	6,780.37	6,885.09	6,876.45	15.90	15.58	-146.50	279.29	-1,447.84	1,754.28	1,723.74	30.54	57.446
6,900.00	6,879.68	6,984.99	6,976.07	16.17	15.82	-146.55	283.74	-1,441.86	1,758.36	1,727.35	31.01	56.703
7,000.00	6,978.99	7,084.89	7,075.70	16.44	16.06	-146.61	288.19	-1,435.89	1,762.44	1,730.95	31.48	55.982
7,100.00	7,078.30	7,184.79	7,175.32	16.71	16.31	-146.66	292.64	-1,429.91	1,766.52	1,734.56	31.96	55.281
7,200.00	7,177.61	7,284.70	7,274.95	16.99	16.55	-146.71	297.10	-1,423.93	1,770.60	1,738.17	32.43	54.600
7,300.00	7,276.93	7,384.60	7,374.57	17.26	16.79	-146.77	301.55	-1,417.96	1,774.68	1,741.78	32.90	53.937
7,400.00	7,376.24	7,484.50	7,474.19	17.54	17.04	-146.82	306.00	-1,411.98	1,778.77	1,745.39	33.38	53.293
7,500.00	7,475.55	7,584.41	7,573.82	17.81	17.28	-146.87	310.45	-1,406.00	1,782.86	1,749.01	33.85	52.667
7,600.00	7,574.86	7,684.31	7,673.44	18.09	17.53	-146.93	314.91	-1,400.03	1,786.95	1,752.62	34.33	52.057
7,700.00	7,674.17	7,784.21	7,773.07	18.37	17.77	-146.98	319.36	-1,394.05	1,791.04	1,756.23	34.80	51.463
7,800.00	7,773.48	7,884.11	7,872.69	18.64	18.02	-147.03	323.81	-1,388.07	1,795.13	1,759.85	35.28	50.885
7,900.00	7,872.80	7,984.02	7,972.32	18.92	18.26	-147.08	328.26	-1,382.10	1,799.22	1,763.47	35.75	50.322
8,000.00	7,972.11	8,083.92	8,071.94	19.20	18.51	-147.13	332.72	-1,376.12	1,803.32	1,767.08	36.23	49.773
8,100.00	8,071.42	8,183.82	8,171.57	19.48	18.75	-147.19	337.17	-1,370.14	1,807.41	1,770.70	36.71	49.238
8,200.00	8,170.73	8,283.73	8,271.19	19.76	19.00	-147.24	341.62	-1,364.17	1,811.51	1,774.32	37.18	48.716
8,300.00	8,270.04	8,383.63	8,370.82	20.04	19.24	-147.29	346.07	-1,358.19	1,815.61	1,777.95	37.66	48.208
8,400.00	8,369.35	8,483.53	8,470.44	20.32	19.49	-147.34	350.52	-1,352.21	1,819.71	1,781.57	38.14	47.712
8,500.00	8,468.66	8,583.43	8,570.06	20.60	19.74	-147.39	354.98	-1,346.24	1,823.81	1,785.19	38.62	47.228
8,600.00	8,567.98	8,683.34	8,669.69	20.88	19.98	-147.44	359.43	-1,340.26	1,827.91	1,788.82	39.10	46.755
8,700.00	8,667.29	8,783.24	8,769.31	21.16	20.23	-147.49	363.88	-1,334.28	1,832.02	1,792.44	39.57	46.294
8,800.00	8,766.60	8,883.14	8,868.94	21.44	20.48	-147.54	368.33	-1,328.31	1,836.12	1,796.07	40.05	45.843
8,900.00	8,865.91	8,983.05	8,968.56	21.72	20.72	-147.59	372.79	-1,322.33	1,840.23	1,799.70	40.53	45.403
9,000.00	8,965.22	9,082.95	9,068.19	22.00	20.97	-147.64	377.24	-1,316.35	1,844.34	1,803.33	41.01	44.973
9,100.00	9,064.53	9,182.85	9,167.81	22.28	21.22	-147.69	381.69	-1,310.38	1,848.45	1,806.96	41.49	44.553
9,200.00	9,163.85	9,282.75	9,267.44	22.57	21.46	-147.74	386.14	-1,304.40	1,852.56	1,810.59	41.97	44.142
9,300.00	9,263.16	9,382.66	9,367.06	22.85	21.71	-147.79	390.60	-1,298.42	1,856.67	1,814.23	42.45	43.741
9,400.00	9,362.47	9,482.56	9,466.68	23.13	21.96	-147.83	395.05	-1,292.45	1,860.79	1,817.86	42.93	43.348
9,500.00	9,461.78	9,582.46	9,566.31	23.41	22.21	-147.88	399.50	-1,286.47	1,864.90	1,821.50	43.41	42.964
9,600.00	9,561.09	9,682.37	9,665.93	23.70	22.46	-147.93	403.95	-1,280.49	1,869.02	1,825.13	43.89	42.588
9,700.00	9,660.40	9,782.27	9,765.56	23.98	22.70	-147.98	408.41	-1,274.52	1,873.14	1,828.77	44.37	42.220
9,800.00	9,759.71	9,882.17	9,865.18	24.26	22.95	-148.03	412.86	-1,268.54	1,877.26	1,832.41	44.85	41.860
9,900.00	9,859.03	9,982.08	9,964.81	24.55	23.20	-148.07	417.31	-1,262.56	1,881.38	1,836.05	45.33	41.507
10,000.00	9,958.34	10,081.98	10,064.43	24.83	23.45	-148.12	421.76	-1,256.59	1,885.50	1,839.69	45.81	41.162
10,100.00	10,057.65	10,181.88	10,164.06	25.11	23.70	-148.17	426.22	-1,250.61	1,889.62	1,843.34	46.29	40.824

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

LEAM Drilling Systems LLC

Anticollision Report

Company: Devon Energy
 Project: Lea County, NM (NAD-83)
 Reference Site: Fighting Okra 18-19 Fed
 Site Error: 0.00 usft
 Reference Well: 85H
 Well Error: 0.00 usft
 Reference Wellbore: OH
 Reference Design: Plan #1

Local Co-ordinate Reference: Well 85H
 TVD Reference: 3369.1' GE + 25' KB @ 3394.10usft
 MD Reference: 3369.1' GE + 25' KB @ 3394.10usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Output errors are at: 2.00 sigma
 Database: EDM 5000.1 Multi User Db
 Offset TVD Reference: Offset Datum

Offset Design Fighting Okra 18-19 Fed - 5H - OH - Plan #1													Offset Site Error: 0.00 usft
Survey Program: 0-LEAM MWD+HDGM													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
10,200.00	10,156.96	10,281.78	10,263.68	25.40	23.94	-148.22	430.67	-1,244.63	1,893.75	1,846.98	46.77	40.493	
10,300.00	10,256.27	10,361.69	10,363.31	25.68	24.19	-148.26	435.12	-1,238.66	1,897.88	1,850.63	47.25	40.168	
10,400.00	10,355.58	10,461.59	10,462.93	25.97	24.44	-148.31	439.57	-1,232.68	1,902.00	1,854.27	47.73	39.850	
10,500.00	10,454.90	10,561.49	10,562.55	26.25	24.69	-148.36	444.03	-1,226.70	1,906.13	1,857.92	48.21	39.538	
10,600.00	10,554.21	10,661.40	10,662.18	26.54	24.94	-148.40	448.48	-1,220.73	1,910.26	1,861.57	48.69	39.233	
10,700.00	10,653.52	10,761.30	10,761.80	26.82	25.19	-148.45	452.93	-1,214.75	1,914.39	1,865.22	49.17	38.933	
10,800.00	10,752.83	10,862.61	10,842.91	27.11	25.35	-148.49	456.30	-1,210.23	1,918.96	1,869.38	49.58	38.705	
10,900.00	10,852.14	10,961.55	10,921.73	27.39	25.50	-148.56	458.91	-1,206.72	1,924.60	1,874.63	49.97	38.515	
11,000.00	10,951.45	11,020.34	11,000.46	27.68	25.64	-148.64	460.87	-1,204.09	1,931.33	1,880.98	50.35	38.356	
11,100.00	11,050.77	11,100.00	11,080.09	27.96	25.78	-148.74	462.20	-1,202.31	1,939.15	1,888.42	50.73	38.224	
11,178.62	11,128.84	11,160.62	11,140.70	28.19	25.89	-148.83	462.77	-1,201.55	1,946.07	1,895.05	51.02	38.144	
11,200.00	11,150.08	11,177.37	11,157.45	28.24	25.92	-148.87	462.86	-1,201.43	1,948.03	1,896.94	51.09	38.128	
11,300.00	11,249.53	11,265.35	11,245.43	28.46	26.07	-149.05	462.95	-1,201.30	1,956.86	1,905.42	51.44	38.043	
11,400.00	11,349.15	11,364.97	11,345.05	28.66	26.28	-149.22	462.95	-1,201.30	1,964.37	1,912.54	51.83	37.900	
11,500.00	11,448.90	11,464.72	11,444.80	28.86	26.48	-149.36	462.95	-1,201.30	1,970.39	1,918.16	52.23	37.728	
11,600.00	11,548.76	11,564.58	11,544.66	29.05	26.69	-149.46	462.95	-1,201.30	1,974.92	1,922.30	52.62	37.533	
11,700.00	11,648.70	11,664.52	11,644.60	29.22	26.90	-149.53	462.95	-1,201.30	1,977.94	1,924.93	53.01	37.314	
11,800.00	11,748.68	11,764.50	11,744.58	29.39	27.11	-149.56	462.95	-1,201.30	1,979.47	1,926.07	53.40	37.072	
11,851.32	11,800.00	11,815.82	11,795.90	29.47	27.22	-89.65	462.95	-1,201.30	1,979.67	1,926.07	53.59	36.939	
11,900.00	11,848.68	11,864.50	11,844.58	29.56	27.32	-89.65	462.95	-1,201.30	1,979.67	1,925.88	53.79	36.804	
12,000.00	11,948.68	11,964.50	11,944.58	29.75	27.53	-89.65	462.95	-1,201.30	1,979.67	1,925.46	54.21	36.519	
12,100.00	12,048.68	12,064.50	12,044.58	29.94	27.74	-89.65	462.95	-1,201.30	1,979.67	1,925.04	54.63	36.239	
12,200.00	12,148.68	12,164.50	12,144.58	30.14	27.95	-89.65	462.95	-1,201.30	1,979.67	1,924.62	55.05	35.962	
12,300.00	12,248.68	12,264.99	12,245.06	30.33	28.15	-89.67	462.45	-1,201.30	1,979.66	1,924.20	55.46	35.696	
12,392.36	12,341.04	12,357.69	12,336.96	30.51	28.28	-90.00	451.10	-1,201.30	1,979.63	1,923.87	55.76	35.501	
12,392.87	12,341.55	12,358.19	12,337.45	30.51	28.28	90.00	451.00	-1,201.30	1,979.63	1,923.87	55.76	35.501	
12,400.00	12,348.68	12,365.16	12,344.27	30.52	28.29	89.96	449.54	-1,201.30	1,979.63	1,923.85	55.78	35.489	
12,450.00	12,398.58	12,413.60	12,391.07	30.59	28.34	89.67	437.14	-1,201.30	1,979.66	1,923.77	55.89	35.419	
12,500.00	12,448.05	12,461.25	12,435.94	30.65	28.39	89.39	421.12	-1,201.30	1,979.75	1,923.77	55.98	35.366	
12,550.00	12,496.70	12,508.16	12,478.66	30.70	28.42	89.12	401.77	-1,201.30	1,979.87	1,923.83	56.04	35.328	
12,600.00	12,544.16	12,554.40	12,519.08	30.73	28.45	88.85	379.33	-1,201.30	1,980.04	1,923.95	56.09	35.302	
12,650.00	12,590.08	12,600.00	12,557.04	30.75	28.47	88.59	354.09	-1,201.30	1,980.24	1,924.13	56.12	35.286	
12,700.00	12,634.11	12,645.05	12,592.45	30.76	28.49	88.35	326.26	-1,201.30	1,980.48	1,924.34	56.14	35.278	
12,750.00	12,675.90	12,689.57	12,625.19	30.75	28.50	88.11	296.12	-1,201.30	1,980.73	1,924.58	56.15	35.273	
12,800.00	12,715.15	12,733.60	12,655.18	30.74	28.51	87.89	263.89	-1,201.30	1,981.00	1,924.84	56.17	35.271	
12,850.00	12,751.55	12,777.21	12,682.36	30.73	28.52	87.68	229.80	-1,201.30	1,981.28	1,925.10	56.18	35.266	
12,900.00	12,784.82	12,820.43	12,706.65	30.70	28.53	87.49	194.07	-1,201.30	1,981.56	1,925.36	56.20	35.258	
12,950.00	12,814.72	12,863.31	12,728.03	30.68	28.54	87.32	156.91	-1,201.30	1,981.83	1,925.60	56.23	35.242	
13,000.00	12,841.01	12,905.88	12,746.45	30.65	28.56	87.16	118.53	-1,201.30	1,982.09	1,925.81	56.28	35.219	
13,050.00	12,863.50	12,950.00	12,762.47	30.62	28.58	87.02	77.44	-1,201.30	1,982.32	1,925.98	56.35	35.182	
13,100.00	12,882.01	12,990.30	12,774.30	30.60	28.61	86.91	38.92	-1,201.30	1,982.54	1,926.11	56.43	35.134	
13,150.00	12,896.40	13,032.22	12,783.71	30.59	28.66	86.81	-1.92	-1,201.30	1,982.72	1,926.18	56.53	35.071	
13,200.00	12,906.57	13,073.99	12,790.09	30.59	28.72	86.73	-43.19	-1,201.30	1,982.86	1,926.20	56.67	34.993	
13,250.00	12,912.43	13,115.66	12,793.44	30.61	28.81	86.68	-84.71	-1,201.30	1,982.97	1,926.15	56.82	34.899	
13,292.36	12,914.00	13,152.91	12,794.00	30.63	28.90	86.65	-121.96	-1,201.30	1,983.02	1,926.04	56.98	34.803	
13,300.00	12,914.00	13,160.55	12,794.00	30.64	28.92	86.65	-129.60	-1,201.30	1,983.02	1,926.01	57.01	34.782	
13,400.00	12,914.00	13,260.55	12,794.00	30.78	29.24	86.65	-229.60	-1,201.30	1,983.02	1,925.45	57.57	34.448	
13,500.00	12,914.00	13,360.55	12,794.00	31.01	29.66	86.65	-329.60	-1,201.30	1,983.02	1,924.73	58.29	34.021	
13,600.00	12,914.00	13,460.55	12,794.00	31.35	30.16	86.65	-429.60	-1,201.30	1,983.02	1,923.84	59.18	33.508	
13,700.00	12,914.00	13,560.55	12,794.00	31.78	30.74	86.65	-529.60	-1,201.30	1,983.02	1,922.78	60.24	32.920	
13,800.00	12,914.00	13,660.55	12,794.00	32.29	31.40	86.65	-629.60	-1,201.30	1,983.02	1,921.57	61.45	32.270	
13,900.00	12,914.00	13,760.55	12,794.00	32.89	32.12	86.65	-729.60	-1,201.30	1,983.02	1,920.21	62.81	31.572	

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

LEAM Drilling Systems LLC

Anticollision Report

Company: Devon Energy
Project: Lea County, NM (NAD-83)
Reference Site: Fighting Okra 18-19 Fed
Site Error: 0.00 usft
Reference Well: 85H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Plan #1

Local Co-ordinate Reference: Well 85H
TVD Reference: 3369.1' GE + 25' KB @ 3394.10usft
MD Reference: 3369.1' GE + 25' KB @ 3394.10usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDM 5000.1 Multi User Db
Offset TVD Reference: Offset Datum

Offset Design Fighting Okra 18-19 Fed - 5H - OH - Plan #1													Offset Site Error: 0.00 usft
Survey Program: O-LEAM MWD+HDGM													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		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)					
14,000.00	12,914.00	13,860.55	12,794.00	33.57	32.91	86.65	-829.60	-1,201.30	1,983.02	1,918.72	64.30	30.838	
14,100.00	12,914.00	13,960.55	12,794.00	34.31	33.76	86.65	-929.60	-1,201.30	1,983.02	1,917.09	65.93	30.079	
14,200.00	12,914.00	14,060.55	12,794.00	35.11	34.67	86.65	-1,029.60	-1,201.30	1,983.02	1,915.35	67.67	29.304	
14,300.00	12,914.00	14,160.55	12,794.00	35.97	35.63	86.65	-1,129.60	-1,201.30	1,983.02	1,913.50	69.52	28.524	
14,400.00	12,914.00	14,260.55	12,794.00	36.89	36.63	86.65	-1,229.60	-1,201.30	1,983.02	1,911.55	71.47	27.745	
14,500.00	12,914.00	14,360.55	12,794.00	37.85	37.68	86.65	-1,329.60	-1,201.30	1,983.02	1,909.50	73.52	26.973	
14,600.00	12,914.00	14,460.55	12,794.00	38.86	38.77	86.65	-1,429.60	-1,201.30	1,983.02	1,907.37	75.65	26.213	
14,700.00	12,914.00	14,560.55	12,794.00	39.91	39.89	86.65	-1,529.60	-1,201.30	1,983.02	1,905.16	77.86	25.469	
14,800.00	12,914.00	14,660.55	12,794.00	41.00	41.05	86.65	-1,629.60	-1,201.30	1,983.02	1,902.88	80.14	24.743	
14,900.00	12,914.00	14,760.55	12,794.00	42.12	42.25	86.65	-1,729.60	-1,201.30	1,983.02	1,900.53	82.49	24.039	
15,000.00	12,914.00	14,860.55	12,794.00	43.28	43.47	86.65	-1,829.60	-1,201.30	1,983.02	1,898.12	84.90	23.357	
15,100.00	12,914.00	14,960.55	12,794.00	44.46	44.71	86.65	-1,929.60	-1,201.30	1,983.02	1,895.66	87.36	22.698	
15,200.00	12,914.00	15,060.55	12,794.00	45.68	45.98	86.65	-2,029.60	-1,201.30	1,983.02	1,893.14	89.88	22.063	
15,300.00	12,914.00	15,160.55	12,794.00	46.92	47.28	86.65	-2,129.60	-1,201.30	1,983.02	1,890.58	92.44	21.451	
15,400.00	12,914.00	15,260.55	12,794.00	48.18	48.59	86.65	-2,229.60	-1,201.30	1,983.02	1,887.97	95.05	20.863	
15,500.00	12,914.00	15,360.55	12,794.00	49.46	49.92	86.65	-2,329.60	-1,201.30	1,983.02	1,885.33	97.69	20.299	
15,600.00	12,914.00	15,460.55	12,794.00	50.77	51.27	86.65	-2,429.60	-1,201.30	1,983.02	1,882.65	100.37	19.756	
15,700.00	12,914.00	15,560.55	12,794.00	52.09	52.64	86.65	-2,529.60	-1,201.30	1,983.02	1,879.93	103.09	19.236	
15,800.00	12,914.00	15,660.55	12,794.00	53.43	54.02	86.65	-2,629.60	-1,201.30	1,983.02	1,877.19	105.83	18.737	
15,900.00	12,914.00	15,760.55	12,794.00	54.78	55.41	86.65	-2,729.60	-1,201.30	1,983.02	1,874.41	108.61	18.258	
16,000.00	12,914.00	15,860.55	12,794.00	56.15	56.82	86.65	-2,829.60	-1,201.30	1,983.02	1,871.61	111.41	17.799	
16,100.00	12,914.00	15,960.55	12,794.00	57.54	58.24	86.65	-2,929.60	-1,201.30	1,983.02	1,868.78	114.24	17.359	
16,200.00	12,914.00	16,060.55	12,794.00	58.94	59.67	86.65	-3,029.60	-1,201.30	1,983.02	1,865.93	117.09	16.937	
16,300.00	12,914.00	16,160.55	12,794.00	60.34	61.11	86.65	-3,129.60	-1,201.30	1,983.02	1,863.06	119.96	16.531	
16,400.00	12,914.00	16,260.55	12,794.00	61.76	62.56	86.65	-3,229.60	-1,201.30	1,983.02	1,860.17	122.84	16.142	
16,500.00	12,914.00	16,360.55	12,794.00	63.19	64.02	86.65	-3,329.60	-1,201.30	1,983.02	1,857.27	125.75	15.769	
16,600.00	12,914.00	16,460.55	12,794.00	64.63	65.49	86.65	-3,429.60	-1,201.30	1,983.02	1,854.34	128.68	15.411	
16,700.00	12,914.00	16,560.55	12,794.00	66.08	66.96	86.65	-3,529.60	-1,201.30	1,983.02	1,851.40	131.62	15.066	
16,800.00	12,914.00	16,660.55	12,794.00	67.54	68.44	86.65	-3,629.60	-1,201.30	1,983.02	1,848.44	134.57	14.735	
16,900.00	12,914.00	16,760.55	12,794.00	69.01	69.93	86.65	-3,729.60	-1,201.30	1,983.02	1,845.48	137.54	14.417	
17,000.00	12,914.00	16,860.55	12,794.00	70.48	71.43	86.65	-3,829.60	-1,201.30	1,983.02	1,842.49	140.53	14.111	
17,100.00	12,914.00	16,960.55	12,794.00	71.96	72.93	86.65	-3,929.60	-1,201.30	1,983.02	1,839.50	143.52	13.817	
17,200.00	12,914.00	17,060.55	12,794.00	73.44	74.44	86.65	-4,029.60	-1,201.30	1,983.02	1,836.49	146.53	13.533	
17,300.00	12,914.00	17,160.55	12,794.00	74.94	75.95	86.65	-4,129.60	-1,201.30	1,983.02	1,833.47	149.55	13.260	
17,400.00	12,914.00	17,260.55	12,794.00	76.43	77.47	86.65	-4,229.60	-1,201.30	1,983.02	1,830.45	152.57	12.997	
17,500.00	12,914.00	17,360.55	12,794.00	77.94	78.99	86.65	-4,329.60	-1,201.30	1,983.02	1,827.41	155.61	12.743	
17,600.00	12,914.00	17,460.55	12,794.00	79.45	80.51	86.65	-4,429.60	-1,201.30	1,983.02	1,824.36	158.66	12.499	
17,700.00	12,914.00	17,560.55	12,794.00	80.96	82.04	86.65	-4,529.60	-1,201.30	1,983.02	1,821.31	161.71	12.263	
17,800.00	12,914.00	17,660.55	12,794.00	82.48	83.58	86.65	-4,629.60	-1,201.30	1,983.02	1,818.24	164.78	12.035	
17,900.00	12,914.00	17,760.55	12,794.00	84.00	85.12	86.65	-4,729.60	-1,201.30	1,983.02	1,815.17	167.85	11.815	
18,000.00	12,914.00	17,860.55	12,794.00	85.53	86.66	86.65	-4,829.60	-1,201.30	1,983.02	1,812.10	170.92	11.602	
18,100.00	12,914.00	17,960.55	12,794.00	87.06	88.20	86.65	-4,929.60	-1,201.30	1,983.02	1,809.01	174.01	11.396	
18,200.00	12,914.00	18,060.55	12,794.00	88.59	89.75	86.65	-5,029.60	-1,201.30	1,983.02	1,805.92	177.10	11.197	
18,300.00	12,914.00	18,160.55	12,794.00	90.13	91.30	86.65	-5,129.60	-1,201.30	1,983.02	1,802.82	180.20	11.005	
18,400.00	12,914.00	18,260.55	12,794.00	91.67	92.86	86.65	-5,229.60	-1,201.30	1,983.02	1,799.72	183.30	10.819	
18,500.00	12,914.00	18,360.55	12,794.00	93.21	94.41	86.65	-5,329.60	-1,201.30	1,983.02	1,796.61	186.41	10.638	
18,600.00	12,914.00	18,460.55	12,794.00	94.76	95.97	86.65	-5,429.60	-1,201.30	1,983.02	1,793.50	189.52	10.463	
18,700.00	12,914.00	18,560.55	12,794.00	96.31	97.53	86.65	-5,529.60	-1,201.30	1,983.02	1,790.38	192.64	10.294	
18,800.00	12,914.00	18,660.55	12,794.00	97.86	99.10	86.65	-5,629.60	-1,201.30	1,983.02	1,787.26	195.76	10.130	
18,900.00	12,914.00	18,760.55	12,794.00	99.42	100.66	86.65	-5,729.60	-1,201.30	1,983.02	1,784.13	198.89	9.970	
19,000.00	12,914.00	18,860.55	12,794.00	100.98	102.23	86.65	-5,829.60	-1,201.30	1,983.02	1,781.00	202.02	9.816	
19,100.00	12,914.00	18,960.55	12,794.00	102.54	103.80	86.65	-5,929.60	-1,201.30	1,983.02	1,777.86	205.16	9.666	

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

LEAM Drilling Systems LLC

Anticollision Report

Company: Devon Energy
 Project: Lea County, NM (NAD-83)
 Reference Site: Fighting Okra 18-19 Fed
 Site Error: 0.00 usft
 Reference Well: 85H
 Well Error: 0.00 usft
 Reference Wellbore: OH
 Reference Design: Plan #1

Local Co-ordinate Reference: Well 85H
 TVD Reference: 3369.1' GE + 25' KB @ 3394.10usft
 MD Reference: 3369.1' GE + 25' KB @ 3394.10usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Output errors are at: 2.00 sigma
 Database: EDM 5000.1 Multi User Db
 Offset TVD Reference: Offset Datum

Offset Design Fighting Okra 18-19 Fed - 5H - OH - Plan #1													Offset Site Error: 0.00 usft
Survey Program: 0-LEAM MWD+HDGM													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	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)					
19,200.00	12,914.00	19,060.55	12,794.00	104.10	105.37	86.65	-6,029.60	-1,201.30	1,983.02	1,774.72	208.30	9.520	
19,300.00	12,914.00	19,160.55	12,794.00	105.67	106.95	86.65	-6,129.60	-1,201.30	1,983.02	1,771.58	211.44	9.379	
19,400.00	12,914.00	19,260.55	12,794.00	107.23	108.52	86.65	-6,229.60	-1,201.30	1,983.02	1,768.43	214.59	9.241	
19,500.00	12,914.00	19,360.55	12,794.00	108.80	110.10	86.65	-6,329.60	-1,201.30	1,983.02	1,765.28	217.74	9.107	
19,600.00	12,914.00	19,460.55	12,794.00	110.37	111.68	86.65	-6,429.60	-1,201.30	1,983.02	1,762.12	220.90	8.977	
19,700.00	12,914.00	19,560.55	12,794.00	111.94	113.26	86.65	-6,529.60	-1,201.30	1,983.02	1,758.97	224.05	8.851	
19,800.00	12,914.00	19,660.55	12,794.00	113.52	114.84	86.65	-6,629.60	-1,201.30	1,983.02	1,755.81	227.21	8.728	
19,900.00	12,914.00	19,760.55	12,794.00	115.09	116.43	86.65	-6,729.60	-1,201.30	1,983.02	1,752.64	230.38	8.608	
20,000.00	12,914.00	19,860.55	12,794.00	116.67	118.01	86.65	-6,829.60	-1,201.30	1,983.02	1,749.48	233.54	8.491	
20,100.00	12,914.00	19,960.55	12,794.00	118.25	119.60	86.65	-6,929.60	-1,201.30	1,983.02	1,746.31	236.71	8.377	
20,200.00	12,914.00	20,060.55	12,794.00	119.83	121.19	86.65	-7,029.60	-1,201.30	1,983.02	1,743.14	239.88	8.267	
20,300.00	12,914.00	20,160.55	12,794.00	121.41	122.78	86.65	-7,129.60	-1,201.30	1,983.02	1,739.96	243.06	8.159	
20,400.00	12,914.00	20,260.55	12,794.00	123.00	124.37	86.65	-7,229.60	-1,201.30	1,983.02	1,736.79	246.23	8.053	
20,500.00	12,914.00	20,360.55	12,794.00	124.58	125.96	86.65	-7,329.60	-1,201.30	1,983.02	1,733.61	249.41	7.951	
20,600.00	12,914.00	20,460.55	12,794.00	126.17	127.55	86.65	-7,429.60	-1,201.30	1,983.02	1,730.43	252.59	7.851	
20,700.00	12,914.00	20,560.55	12,794.00	127.75	129.14	86.65	-7,529.60	-1,201.30	1,983.02	1,727.25	255.77	7.753	
20,800.00	12,914.00	20,660.55	12,794.00	129.34	130.74	86.65	-7,629.60	-1,201.30	1,983.02	1,724.06	258.96	7.658	
20,900.00	12,914.00	20,760.55	12,794.00	130.93	132.33	86.65	-7,729.60	-1,201.30	1,983.02	1,720.87	262.15	7.565	
21,000.00	12,914.00	20,860.55	12,794.00	132.52	133.93	86.65	-7,829.60	-1,201.30	1,983.02	1,717.69	265.33	7.474	
21,100.00	12,914.00	20,960.55	12,794.00	134.11	135.53	86.65	-7,929.60	-1,201.30	1,983.02	1,714.50	268.52	7.385	
21,200.00	12,914.00	21,060.55	12,794.00	135.71	137.12	86.65	-8,029.60	-1,201.30	1,983.02	1,711.30	271.72	7.298	
21,300.00	12,914.00	21,160.55	12,794.00	137.30	138.72	86.65	-8,129.60	-1,201.30	1,983.02	1,708.11	274.91	7.213	
21,400.00	12,914.00	21,260.55	12,794.00	138.90	140.32	86.65	-8,229.60	-1,201.30	1,983.02	1,704.91	278.11	7.130	
21,500.00	12,914.00	21,360.55	12,794.00	140.49	141.92	86.65	-8,329.60	-1,201.30	1,983.02	1,701.72	281.30	7.049	
21,600.00	12,914.00	21,460.55	12,794.00	142.09	143.53	86.65	-8,429.60	-1,201.30	1,983.02	1,698.52	284.50	6.970	
21,700.00	12,914.00	21,560.55	12,794.00	143.68	145.13	86.65	-8,529.60	-1,201.30	1,983.02	1,695.32	287.70	6.893	
21,800.00	12,914.00	21,660.55	12,794.00	145.28	146.73	86.65	-8,629.60	-1,201.30	1,983.02	1,692.12	290.90	6.817	
21,900.00	12,914.00	21,760.55	12,794.00	146.88	148.33	86.65	-8,729.60	-1,201.30	1,983.02	1,688.91	294.11	6.743	
22,000.00	12,914.00	21,860.55	12,794.00	148.48	149.94	86.65	-8,829.60	-1,201.30	1,983.02	1,685.71	297.31	6.670	
22,100.00	12,914.00	21,960.55	12,794.00	150.08	151.54	86.65	-8,929.60	-1,201.30	1,983.02	1,682.50	300.52	6.599	
22,200.00	12,914.00	22,060.55	12,794.00	151.68	153.15	86.65	-9,029.60	-1,201.30	1,983.02	1,679.30	303.72	6.529	
22,300.00	12,914.00	22,160.55	12,794.00	153.28	154.75	86.65	-9,129.60	-1,201.30	1,983.02	1,676.09	306.93	6.461	
22,400.00	12,914.00	22,260.55	12,794.00	154.89	156.36	86.65	-9,229.60	-1,201.30	1,983.02	1,672.88	310.14	6.394	
22,500.00	12,914.00	22,360.55	12,794.00	156.49	157.97	86.65	-9,329.60	-1,201.30	1,983.02	1,669.67	313.35	6.328	
22,600.00	12,914.00	22,460.55	12,794.00	158.09	159.58	86.65	-9,429.60	-1,201.30	1,983.02	1,666.46	316.56	6.264	
22,700.00	12,914.00	22,560.55	12,794.00	159.70	161.18	86.65	-9,529.60	-1,201.30	1,983.02	1,663.25	319.77	6.201	
22,800.00	12,914.00	22,660.55	12,794.00	161.30	162.79	86.65	-9,629.60	-1,201.30	1,983.02	1,660.03	322.99	6.140	
22,867.23	12,914.00	22,727.79	12,794.00	162.38	163.87	86.65	-9,696.83	-1,201.30	1,983.02	1,657.87	325.15	6.099 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
 Project: Lea County, NM (NAD-83)
 Reference Site: Fighting Okra 18-19 Fed
 Site Error: 0.00 usft
 Reference Well: 85H
 Well Error: 0.00 usft
 Reference Wellbore: OH
 Reference Design: Plan #1

Local Co-ordinate Reference: Well 85H
 TVD Reference: 3369.1' GE + 25' KB @ 3394.10usft
 MD Reference: 3369.1' GE + 25' KB @ 3394.10usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Output errors are at: 2.00 sigma
 Database: EDM 5000.1 Multi User Db
 Offset TVD Reference: Offset Datum

Offset Design Fighting Okra 18-19 Fed - 6H - OH - Plan #1												Offset Site Error:	0.00 usft
Survey Program: O-LEAM.MWD+HDGM												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		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	0.00	0.00	0.00	0.00	-90.00	0.00	-29.99	29.99				
100.00	100.00	99.90	99.90	0.08	0.08	-90.00	0.00	-29.99	29.99	29.82	0.17	177.992	
200.00	200.00	199.90	199.90	0.31	0.31	-90.00	0.00	-29.99	29.99	29.37	0.62	48.537	
300.00	300.00	299.90	299.90	0.53	0.53	-90.00	0.00	-29.99	29.99	28.92	1.07	28.096	
400.00	400.00	399.90	399.90	0.76	0.76	-90.00	0.00	-29.99	29.99	28.47	1.52	19.770	
500.00	500.00	499.90	499.90	0.98	0.98	-90.00	0.00	-29.99	29.99	28.02	1.97	15.251	
600.00	600.00	599.90	599.90	1.21	1.21	-90.00	0.00	-29.99	29.99	27.57	2.42	12.413	
700.00	700.00	699.90	699.90	1.43	1.43	-90.00	0.00	-29.99	29.99	27.12	2.87	10.466	
800.00	800.00	799.90	799.90	1.66	1.66	-90.00	0.00	-29.99	29.99	26.67	3.32	9.047	
900.00	900.00	899.90	899.90	1.88	1.88	-90.00	0.00	-29.99	29.99	26.23	3.76	7.966	
1,000.00	1,000.00	999.90	999.90	2.11	2.11	-90.00	0.00	-29.99	29.99	25.78	4.21	7.117	
1,100.00	1,100.00	1,099.90	1,099.90	2.33	2.33	-90.00	0.00	-29.99	29.99	25.33	4.66	6.431	
1,200.00	1,200.00	1,199.90	1,199.90	2.56	2.56	-90.00	0.00	-29.99	29.99	24.88	5.11	5.865	
1,300.00	1,300.00	1,299.90	1,299.90	2.78	2.78	-90.00	0.00	-29.99	29.99	24.43	5.56	5.391	
1,400.00	1,400.00	1,399.90	1,399.90	3.01	3.01	-90.00	0.00	-29.99	29.99	23.98	6.01	4.988	
1,500.00	1,500.00	1,499.90	1,499.90	3.23	3.23	-90.00	0.00	-29.99	29.99	23.53	6.46	4.641	
1,600.00	1,600.00	1,599.90	1,599.90	3.46	3.46	-90.00	0.00	-29.99	29.99	23.08	6.91	4.339	
1,700.00	1,700.00	1,699.90	1,699.90	3.68	3.68	-90.00	0.00	-29.99	29.99	22.63	7.36	4.074	
1,800.00	1,800.00	1,799.90	1,799.90	3.91	3.91	-90.00	0.00	-29.99	29.99	22.18	7.81	3.840	
1,900.00	1,900.00	1,899.90	1,899.90	4.13	4.13	-90.00	0.00	-29.99	29.99	21.73	8.26	3.631	
2,000.00	2,000.00	1,999.90	1,999.90	4.35	4.35	-90.00	0.00	-29.99	29.99	21.28	8.71	3.443	
2,100.00	2,100.00	2,099.90	2,099.90	4.58	4.58	-90.00	0.00	-29.99	29.99	20.83	9.16	3.274	
2,200.00	2,200.00	2,199.90	2,199.90	4.80	4.80	-90.00	0.00	-29.99	29.99	20.38	9.61	3.121	
2,300.00	2,300.00	2,299.90	2,299.90	5.03	5.03	-90.00	0.00	-29.99	29.99	19.93	10.06	2.982	
2,400.00	2,400.00	2,399.90	2,399.90	5.25	5.25	-90.00	0.00	-29.99	29.99	19.48	10.51	2.854	
2,500.00	2,500.00	2,499.90	2,499.90	5.48	5.48	-90.00	0.00	-29.99	29.99	19.03	10.96	2.737	
2,600.00	2,600.00	2,599.90	2,599.90	5.70	5.70	-90.00	0.00	-29.99	29.99	18.58	11.41	2.629	
2,700.00	2,700.00	2,699.90	2,699.90	5.93	5.93	-90.00	0.00	-29.99	29.99	18.13	11.86	2.529	
2,800.00	2,800.00	2,799.90	2,799.90	6.15	6.15	-90.00	0.00	-29.99	29.99	17.68	12.31	2.437	
2,900.00	2,900.00	2,899.90	2,899.90	6.38	6.38	-90.00	0.00	-29.99	29.99	17.23	12.76	2.351	
3,000.00	3,000.00	2,999.90	2,999.90	6.60	6.60	-90.00	0.00	-29.99	29.99	16.79	13.20	2.271	
3,100.00	3,100.00	3,099.90	3,099.90	6.83	6.83	-90.00	0.00	-29.99	29.99	16.34	13.65	2.196	
3,200.00	3,200.00	3,199.90	3,199.90	7.05	7.05	-90.00	0.00	-29.99	29.99	15.89	14.10	2.126	
3,300.00	3,300.00	3,299.90	3,299.90	7.28	7.28	-90.00	0.00	-29.99	29.99	15.44	14.55	2.061	
3,400.00	3,400.00	3,399.90	3,399.90	7.50	7.50	-90.00	0.00	-29.99	29.99	14.99	15.00	1.999	
3,500.00	3,500.00	3,499.90	3,499.90	7.73	7.73	-90.00	0.00	-29.99	29.99	14.54	15.45	1.941 CC, ES	
3,600.00	3,600.00	3,600.05	3,600.05	7.94	7.95	-149.17	0.83	-29.73	30.48	14.59	15.89	1.918 SF	
3,700.00	3,699.96	3,700.18	3,700.14	8.16	8.17	-147.07	3.33	-28.94	32.00	15.67	16.33	1.960	
3,800.00	3,799.86	3,800.27	3,800.13	8.37	8.40	-143.98	7.50	-27.62	34.60	17.84	16.76	2.065	
3,900.00	3,899.68	3,900.27	3,899.95	8.58	8.62	-140.38	13.33	-25.78	38.38	21.19	17.19	2.232	
4,000.00	3,999.37	4,000.13	3,999.56	8.80	8.85	-137.90	19.92	-23.70	43.50	25.87	17.63	2.467	
4,100.00	4,098.90	4,099.92	4,099.11	9.02	9.07	-137.33	26.50	-21.62	49.95	31.88	18.07	2.764	
4,172.70	4,171.16	4,172.41	4,171.43	9.19	9.23	-137.76	31.29	-20.11	55.45	37.05	18.39	3.015	
4,200.00	4,198.27	4,199.62	4,198.57	9.25	9.29	-138.03	33.09	-19.54	57.64	39.13	18.51	3.114	
4,300.00	4,297.58	4,299.29	4,298.01	9.48	9.52	-138.85	39.67	-17.46	65.68	46.72	18.96	3.465	
4,400.00	4,396.89	4,398.96	4,397.44	9.71	9.75	-139.50	46.25	-15.38	73.73	54.33	19.40	3.800	
4,500.00	4,496.20	4,498.63	4,496.87	9.95	9.97	-140.02	52.82	-13.30	81.79	61.94	19.85	4.120	
4,600.00	4,595.51	4,598.31	4,596.31	10.19	10.20	-140.45	59.40	-11.23	89.85	69.55	20.30	4.425	
4,700.00	4,694.83	4,697.98	4,695.74	10.43	10.43	-140.81	65.98	-9.15	97.92	77.16	20.76	4.717	
4,800.00	4,794.14	4,797.65	4,795.17	10.67	10.66	-141.11	72.56	-7.07	105.99	84.78	21.21	4.996	
4,900.00	4,893.45	4,897.32	4,894.61	10.92	10.89	-141.37	79.14	-4.99	114.06	92.39	21.67	5.263	
5,000.00	4,992.76	4,996.99	4,994.04	11.17	11.13	-141.59	85.72	-2.91	122.14	100.01	22.13	5.518	

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

LEAM Drilling Systems LLC

Anticollision Report

Company: Devon Energy
Project: Lea County, NM (NAD-83)
Reference Site: Fighting Okra 18-19 Fed
Site Error: 0.00 usft
Reference Well: 85H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Plan #1

Local Co-ordinate Reference: Well 85H
TVD Reference: 3369.1' GE + 25' KB @ 3394.10usft
MD Reference: 3369.1' GE + 25' KB @ 3394.10usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDM 5000.1 Multi User Db
Offset TVD Reference: Offset Datum

Offset Design Fighting Okra 18-19 Fed - 6H - OH - Plan #1													Offset Site Error: 0.00 usft
Survey Program: 0-LEAM MWD-HDGM													Offset Well Error: 0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (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
5,100.00	5,092.07	5,096.67	5,093.47	11.42	11.36	-141.79		92.30	-0.83	130.22	107.62	22.60	5.763
5,200.00	5,191.38	5,196.34	5,192.90	11.67	11.59	-141.96		98.88	1.24	138.30	115.24	23.06	5.997
5,300.00	5,290.69	5,296.01	5,292.34	11.93	11.83	-142.12		105.46	3.32	146.37	122.85	23.53	6.222
5,400.00	5,390.01	5,395.68	5,391.77	12.18	12.06	-142.26		112.04	5.40	154.46	130.46	23.99	6.438
5,500.00	5,489.32	5,495.36	5,491.20	12.44	12.29	-142.38		118.62	7.48	162.54	138.08	24.46	6.645
5,600.00	5,588.63	5,595.03	5,590.64	12.70	12.53	-142.50		125.20	9.56	170.62	145.69	24.93	6.844
5,700.00	5,687.94	5,694.70	5,690.07	12.96	12.77	-142.60		131.78	11.64	178.70	153.30	25.40	7.035
5,800.00	5,787.25	5,794.37	5,789.50	13.22	13.00	-142.69		138.36	13.71	186.79	160.91	25.87	7.220
5,900.00	5,886.56	5,894.05	5,888.94	13.48	13.24	-142.78		144.94	15.79	194.87	168.52	26.35	7.397
6,000.00	5,985.88	5,993.72	5,988.37	13.75	13.47	-142.86		151.52	17.87	202.95	176.13	26.82	7.567
6,100.00	6,085.19	6,093.39	6,087.80	14.01	13.71	-142.93		158.10	19.95	211.04	183.74	27.29	7.732
6,200.00	6,184.50	6,193.06	6,187.24	14.28	13.95	-143.00		164.68	22.03	219.12	191.35	27.77	7.891
6,300.00	6,283.81	6,292.73	6,286.67	14.55	14.19	-143.06		171.26	24.11	227.21	198.96	28.25	8.044
6,400.00	6,383.12	6,392.41	6,386.10	14.81	14.42	-143.12		177.84	26.18	235.29	206.57	28.72	8.191
6,500.00	6,482.43	6,492.08	6,485.54	15.08	14.66	-143.18		184.42	28.26	243.38	214.18	29.20	8.334
6,600.00	6,581.75	6,591.75	6,584.97	15.35	14.90	-143.23		190.99	30.34	251.47	221.78	29.68	8.472
6,700.00	6,681.06	6,691.42	6,684.40	15.62	15.14	-143.28		197.57	32.42	259.55	229.39	30.16	8.605
6,800.00	6,780.37	6,791.10	6,783.84	15.90	15.38	-143.32		204.15	34.50	267.64	236.99	30.64	8.734
6,900.00	6,879.68	6,890.77	6,883.27	16.17	15.62	-143.36		210.73	36.57	275.72	244.60	31.13	8.859
7,000.00	6,978.99	6,990.44	6,982.70	16.44	15.86	-143.40		217.31	38.65	283.81	252.20	31.61	8.979
7,100.00	7,078.30	7,090.11	7,082.14	16.71	16.10	-143.44		223.89	40.73	291.90	259.81	32.09	9.096
7,200.00	7,177.61	7,189.79	7,181.57	16.99	16.34	-143.48		230.47	42.81	299.98	267.41	32.57	9.210
7,300.00	7,276.93	7,289.46	7,281.00	17.26	16.58	-143.51		237.05	44.89	308.07	275.01	33.06	9.319
7,400.00	7,376.24	7,389.13	7,380.44	17.54	16.82	-143.54		243.63	46.97	316.16	282.62	33.54	9.426
7,500.00	7,475.55	7,488.80	7,479.87	17.81	17.06	-143.57		250.21	49.04	324.24	290.22	34.03	9.529
7,600.00	7,574.86	7,588.48	7,579.30	18.09	17.30	-143.60		256.79	51.12	332.33	297.82	34.51	9.630
7,700.00	7,674.17	7,688.15	7,678.73	18.37	17.54	-143.63		263.37	53.20	340.42	305.42	35.00	9.727
7,800.00	7,773.48	7,787.82	7,778.17	18.64	17.78	-143.66		269.95	55.28	348.51	313.02	35.48	9.822
7,900.00	7,872.80	7,887.49	7,877.60	18.92	18.02	-143.68		276.53	57.36	356.59	320.62	35.97	9.914
8,000.00	7,972.11	7,987.16	7,977.03	19.20	18.27	-143.71		283.11	59.44	364.68	328.22	36.46	10.003
8,100.00	8,071.42	8,086.84	8,076.47	19.48	18.51	-143.73		289.69	61.51	372.77	335.82	36.94	10.090
8,200.00	8,170.73	8,186.51	8,175.90	19.76	18.75	-143.75		296.27	63.59	380.86	343.42	37.43	10.174
8,300.00	8,270.04	8,286.18	8,275.33	20.04	18.99	-143.77		302.85	65.67	388.94	351.02	37.92	10.257
8,400.00	8,369.35	8,385.85	8,374.77	20.32	19.23	-143.79		309.43	67.75	397.03	358.62	38.41	10.337
8,500.00	8,468.66	8,485.53	8,474.20	20.60	19.48	-143.81		316.01	69.83	405.12	366.22	38.90	10.415
8,600.00	8,567.98	8,585.20	8,573.63	20.88	19.72	-143.83		322.59	71.91	413.21	373.82	39.39	10.491
8,700.00	8,667.29	8,684.87	8,673.07	21.16	19.96	-143.85		329.16	73.98	421.29	381.42	39.88	10.565
8,800.00	8,766.60	8,784.54	8,772.50	21.44	20.20	-143.87		335.74	76.06	429.38	389.01	40.37	10.637
8,900.00	8,865.91	8,884.22	8,871.93	21.72	20.44	-143.88		342.32	78.14	437.47	396.61	40.86	10.707
9,000.00	8,965.22	8,983.89	8,971.37	22.00	20.69	-143.90		348.90	80.22	445.56	404.21	41.35	10.776
9,100.00	9,064.53	9,083.56	9,070.80	22.28	20.93	-143.91		355.48	82.30	453.65	411.81	41.84	10.843
9,200.00	9,163.85	9,183.23	9,170.23	22.57	21.17	-143.93		362.06	84.38	461.73	419.40	42.33	10.908
9,300.00	9,263.16	9,282.90	9,269.67	22.85	21.42	-143.94		368.64	86.45	469.82	427.00	42.82	10.972
9,400.00	9,362.47	9,382.58	9,369.10	23.13	21.66	-143.96		375.22	88.53	477.91	434.60	43.31	11.034
9,500.00	9,461.78	9,482.25	9,468.53	23.41	21.90	-143.97		381.80	90.61	486.00	442.19	43.81	11.095
9,600.00	9,561.09	9,581.92	9,567.97	23.70	22.14	-143.98		388.38	92.69	494.09	449.79	44.30	11.154
9,700.00	9,660.40	9,681.59	9,667.40	23.98	22.39	-144.00		394.96	94.77	502.17	457.38	44.79	11.212
9,800.00	9,759.71	9,781.27	9,766.83	24.26	22.63	-144.01		401.54	96.85	510.26	464.98	45.28	11.269
9,900.00	9,859.03	9,880.94	9,866.27	24.55	22.87	-144.02		408.12	98.92	518.35	472.58	45.77	11.324
10,000.00	9,958.34	9,980.61	9,965.70	24.83	23.12	-144.03		414.70	101.00	526.44	480.17	46.27	11.378
10,100.00	10,057.65	10,080.28	10,065.13	25.11	23.36	-144.04		421.28	103.08	534.53	487.77	46.76	11.431
10,200.00	10,156.96	10,179.96	10,164.56	25.40	23.61	-144.05		427.86	105.16	542.62	495.36	47.25	11.483

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

LEAM Drilling Systems LLC

Anticollision Report

Company: Devon Energy
Project: Lea County, NM (NAD-83)
Reference Site: Fighting Okra 18-19 Fed
Site Error: 0.00 usft
Reference Well: 85H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Plan #1

Local Co-ordinate Reference: Well 85H
TVD Reference: 3369.1' GE + 25' KB @ 3394.10usft
MD Reference: 3369.1' GE + 25' KB @ 3394.10usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDM 5000.1 Multi User Db
Offset TVD Reference: Offset Datum

Offset Design Fighting Okra 18-19 Fed - 6H - OH - Plan #1												Offset Site Error:	0.00 usft
Survey Program: 0-LEAM MWD+HDGM												Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis		Distance		Warning							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,300.00	10,256.27	10,279.63	10,264.00	25.68	23.85	-144.07	434.44	107.24	550.70	502.96	47.75	11.534	
10,400.00	10,355.58	10,379.30	10,363.43	25.97	24.09	-144.08	441.02	109.31	558.79	510.55	48.24	11.583	
10,500.00	10,454.90	10,478.97	10,462.86	26.25	24.34	-144.09	447.60	111.39	566.88	518.14	48.74	11.632	
10,600.00	10,554.21	10,578.64	10,562.30	26.54	24.58	-144.10	454.18	113.47	574.97	525.74	49.23	11.679	
10,700.00	10,653.52	10,677.11	10,660.55	26.82	24.80	-144.13	460.40	115.44	583.12	533.42	49.70	11.732	
10,800.00	10,752.83	10,774.66	10,757.97	27.11	24.99	-144.31	465.12	116.93	591.59	541.46	50.13	11.802	
10,900.00	10,852.14	10,872.05	10,855.31	27.39	25.16	-144.64	468.26	117.92	600.43	549.90	50.53	11.882	
11,000.00	10,951.45	10,969.25	10,952.48	27.68	25.33	-145.11	469.81	118.41	609.67	558.74	50.92	11.973	
11,100.00	11,050.77	11,067.43	11,050.67	27.96	25.50	-145.71	470.00	118.47	619.28	567.97	51.32	12.068	
11,178.62	11,128.84	11,145.51	11,128.74	28.19	25.66	-146.18	470.00	118.47	626.93	575.28	51.65	12.139	
11,200.00	11,150.08	11,166.74	11,149.98	28.24	25.71	-146.32	470.00	118.47	628.98	577.25	51.73	12.158	
11,300.00	11,249.53	11,266.19	11,249.43	28.46	25.92	-146.89	470.00	118.47	637.75	585.62	52.12	12.236	
11,400.00	11,349.15	11,365.81	11,349.05	28.66	26.13	-147.35	470.00	118.47	645.09	592.59	52.51	12.286	
11,500.00	11,448.90	11,465.56	11,448.80	28.86	26.34	-147.71	470.00	118.47	651.00	598.11	52.89	12.308	
11,600.00	11,548.76	11,565.42	11,548.66	29.05	26.56	-147.98	470.00	118.47	655.45	602.17	53.28	12.302	
11,700.00	11,648.70	11,665.36	11,648.60	29.22	26.77	-148.16	470.00	118.47	658.44	604.77	53.66	12.270	
11,800.00	11,748.68	11,765.34	11,748.58	29.39	26.99	-148.25	470.00	118.47	659.94	605.89	54.05	12.210	
11,851.32	11,800.00	11,816.66	11,799.90	29.47	27.10	-88.35	470.00	118.47	660.13	605.89	54.25	12.169	
11,900.00	11,848.68	11,865.34	11,848.58	29.56	27.20	-88.35	470.00	118.47	660.13	605.69	54.44	12.125	
12,000.00	11,948.68	11,965.34	11,948.58	29.75	27.41	-88.35	470.00	118.47	660.13	605.27	54.86	12.032	
12,100.00	12,048.68	12,065.34	12,048.58	29.94	27.63	-88.35	470.00	118.47	660.13	604.85	55.28	11.941	
12,200.00	12,148.68	12,165.34	12,148.58	30.14	27.84	-88.35	470.00	118.47	660.13	604.43	55.70	11.851	
12,300.00	12,248.68	12,265.84	12,249.07	30.33	28.05	-88.37	469.80	118.47	660.13	604.01	56.12	11.763	
12,392.36	12,341.04	12,360.03	12,342.60	30.51	28.18	-89.25	459.62	118.47	659.92	603.52	56.39	11.702	
12,400.00	12,348.68	12,367.64	12,350.06	30.52	28.19	90.63	458.13	118.47	659.90	603.49	56.41	11.699	
12,438.77	12,387.40	12,405.96	12,387.30	30.58	28.22	90.00	449.12	118.47	659.86	603.39	56.47	11.686	
12,450.00	12,398.58	12,416.96	12,397.88	30.59	28.23	89.82	446.08	118.47	659.86	603.38	56.48	11.683	
12,500.00	12,448.05	12,465.50	12,443.75	30.65	28.25	89.02	430.24	118.47	659.96	603.43	56.53	11.675	
12,550.00	12,498.70	12,513.31	12,487.46	30.70	28.27	88.24	410.91	118.47	660.18	603.64	56.55	11.675	
12,600.00	12,544.16	12,560.42	12,528.81	30.73	28.27	87.47	388.36	118.47	660.53	603.98	56.55	11.681	
12,650.00	12,590.08	12,606.90	12,567.65	30.75	28.27	86.72	362.86	118.47	660.97	604.44	56.53	11.693	
12,700.00	12,634.11	12,652.78	12,603.85	30.76	28.26	86.00	334.68	118.47	661.51	605.02	56.50	11.709	
12,750.00	12,675.90	12,700.00	12,638.61	30.75	28.24	85.29	302.75	118.47	662.13	605.67	56.46	11.728	
12,800.00	12,715.15	12,742.96	12,667.87	30.74	28.23	84.66	271.30	118.47	662.80	606.38	56.41	11.749	
12,850.00	12,751.55	12,787.35	12,695.53	30.73	28.22	84.05	236.61	118.47	663.50	607.14	56.37	11.771	
12,900.00	12,784.82	12,831.33	12,720.21	30.70	28.20	83.46	200.22	118.47	664.23	607.90	56.32	11.793	
12,950.00	12,814.72	12,874.94	12,741.86	30.68	28.19	82.96	162.37	118.47	664.95	608.66	56.29	11.813	
13,000.00	12,841.01	12,918.22	12,760.44	30.65	28.19	82.48	123.29	118.47	665.65	609.38	56.27	11.829	
13,050.00	12,863.50	12,961.22	12,775.92	30.62	28.19	82.05	83.19	118.47	666.31	610.04	56.27	11.841	
13,100.00	12,882.01	13,003.97	12,788.29	30.60	28.21	81.68	42.28	118.47	666.92	610.63	56.29	11.848	
13,150.00	12,896.40	13,050.00	12,798.15	30.59	28.24	81.34	-2.67	118.47	667.47	611.13	56.34	11.848	
13,200.00	12,906.57	13,088.88	12,803.65	30.59	28.29	81.10	-41.15	118.47	667.92	611.51	56.40	11.842	
13,250.00	12,912.43	13,131.11	12,806.66	30.61	28.36	80.90	-83.27	118.47	668.28	611.78	56.50	11.828	
13,292.36	12,914.00	13,169.80	12,807.00	30.63	28.43	80.80	-121.96	118.47	668.46	611.85	56.62	11.807	
13,300.00	12,914.00	13,177.44	12,807.00	30.64	28.45	80.80	-129.60	118.47	668.46	611.82	56.64	11.802	
13,400.00	12,914.00	13,277.44	12,807.00	30.78	28.71	80.80	-229.60	118.47	668.46	611.38	57.09	11.709	
13,500.00	12,914.00	13,377.44	12,807.00	31.01	29.05	80.80	-329.60	118.47	668.46	610.76	57.71	11.584	
13,600.00	12,914.00	13,477.44	12,807.00	31.35	29.48	80.80	-429.60	118.47	668.46	609.97	58.50	11.427	
13,700.00	12,914.00	13,577.44	12,807.00	31.78	29.99	80.80	-529.60	118.47	668.46	609.01	59.45	11.243	
13,800.00	12,914.00	13,677.44	12,807.00	32.29	30.58	80.80	-629.60	118.47	668.46	607.89	60.57	11.037	
13,900.00	12,914.00	13,777.44	12,807.00	32.89	31.24	80.80	-729.60	118.47	668.46	606.63	61.83	10.811	
14,000.00	12,914.00	13,877.44	12,807.00	33.57	31.97	80.80	-829.60	118.47	668.46	605.23	63.24	10.571	

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LEAM Drilling Systems LLC

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Well Error: 0.00 usft
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Reference Design: Plan #1

Local Co-ordinate Reference: Well 85H
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Offset Design: Fighting Okra 18-19 Fed - 6H - OH - Plan #1													Offset Site Error: 0.00 usft
Survey Program: 0-LEAM MWD+HDGM													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis			Distance						
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
14,100.00	12,914.00	13,977.44	12,807.00	34.31	32.76	80.80	-929.60	118.47	668.46	603.69	64.77	10.320	
14,200.00	12,914.00	14,077.44	12,807.00	35.11	33.62	80.80	-1,029.60	118.47	668.46	602.03	66.43	10.063	
14,300.00	12,914.00	14,177.44	12,807.00	35.97	34.53	80.80	-1,129.60	118.47	668.46	600.26	68.20	9.802	
14,400.00	12,914.00	14,277.44	12,807.00	36.89	35.49	80.80	-1,229.60	118.47	668.46	598.39	70.08	9.539	
14,500.00	12,914.00	14,377.44	12,807.00	37.85	36.50	80.80	-1,329.60	118.47	668.46	596.42	72.05	9.278	
14,600.00	12,914.00	14,477.44	12,807.00	38.86	37.56	80.80	-1,429.60	118.47	668.46	594.35	74.11	9.020	
14,700.00	12,914.00	14,577.44	12,807.00	39.91	38.65	80.80	-1,529.60	118.47	668.46	592.21	76.25	8.767	
14,800.00	12,914.00	14,677.44	12,807.00	41.00	39.79	80.80	-1,629.60	118.47	668.46	590.00	78.47	8.519	
14,900.00	12,914.00	14,777.44	12,807.00	42.12	40.95	80.80	-1,729.60	118.47	668.46	587.71	80.75	8.278	
15,000.00	12,914.00	14,877.44	12,807.00	43.28	42.15	80.80	-1,829.60	118.47	668.46	585.36	83.10	8.044	
15,100.00	12,914.00	14,977.44	12,807.00	44.46	43.38	80.80	-1,929.60	118.47	668.46	582.95	85.51	7.817	
15,200.00	12,914.00	15,077.44	12,807.00	45.68	44.63	80.80	-2,029.60	118.47	668.46	580.49	87.97	7.599	
15,300.00	12,914.00	15,177.44	12,807.00	46.92	45.90	80.80	-2,129.60	118.47	668.46	577.98	90.48	7.388	
15,400.00	12,914.00	15,277.44	12,807.00	48.18	47.20	80.80	-2,229.60	118.47	668.46	575.43	93.03	7.185	
15,500.00	12,914.00	15,377.44	12,807.00	49.46	48.52	80.80	-2,329.60	118.47	668.46	572.84	95.63	6.990	
15,600.00	12,914.00	15,477.44	12,807.00	50.77	49.86	80.80	-2,429.60	118.47	668.46	570.20	98.26	6.803	
15,700.00	12,914.00	15,577.44	12,807.00	52.09	51.21	80.80	-2,529.60	118.47	668.46	567.53	100.93	6.623	
15,800.00	12,914.00	15,677.44	12,807.00	53.43	52.58	80.80	-2,629.60	118.47	668.46	564.83	103.63	6.451	
15,900.00	12,914.00	15,777.44	12,807.00	54.78	53.97	80.80	-2,729.60	118.47	668.46	562.10	106.36	6.285	
16,000.00	12,914.00	15,877.44	12,807.00	56.15	55.36	80.80	-2,829.60	118.47	668.46	559.35	109.12	6.126	
16,100.00	12,914.00	15,977.44	12,807.00	57.54	56.78	80.80	-2,929.60	118.47	668.46	556.56	111.90	5.974	
16,200.00	12,914.00	16,077.44	12,807.00	58.94	58.20	80.80	-3,029.60	118.47	668.46	553.76	114.71	5.828	
16,300.00	12,914.00	16,177.44	12,807.00	60.34	59.63	80.80	-3,129.60	118.47	668.46	550.93	117.54	5.687	
16,400.00	12,914.00	16,277.44	12,807.00	61.76	61.08	80.80	-3,229.60	118.47	668.46	548.08	120.39	5.553	
16,500.00	12,914.00	16,377.44	12,807.00	63.19	62.53	80.80	-3,329.60	118.47	668.46	545.21	123.25	5.423	
16,600.00	12,914.00	16,477.44	12,807.00	64.63	63.99	80.80	-3,429.60	118.47	668.46	542.32	126.14	5.299	
16,700.00	12,914.00	16,577.44	12,807.00	66.08	65.46	80.80	-3,529.60	118.47	668.46	539.42	129.04	5.180	
16,800.00	12,914.00	16,677.44	12,807.00	67.54	66.94	80.80	-3,629.60	118.47	668.46	536.50	131.96	5.066	
16,900.00	12,914.00	16,777.44	12,807.00	69.01	68.42	80.80	-3,729.60	118.47	668.46	533.57	134.89	4.955	
17,000.00	12,914.00	16,877.44	12,807.00	70.48	69.91	80.80	-3,829.60	118.47	668.46	530.62	137.84	4.850	
17,100.00	12,914.00	16,977.44	12,807.00	71.96	71.41	80.80	-3,929.60	118.47	668.46	527.66	140.80	4.748	
17,200.00	12,914.00	17,077.44	12,807.00	73.44	72.92	80.80	-4,029.60	118.47	668.46	524.69	143.77	4.650	
17,300.00	12,914.00	17,177.44	12,807.00	74.94	74.43	80.80	-4,129.60	118.47	668.46	521.71	146.75	4.555	
17,400.00	12,914.00	17,277.44	12,807.00	76.43	75.94	80.80	-4,229.60	118.47	668.46	518.72	149.75	4.464	
17,500.00	12,914.00	17,377.44	12,807.00	77.94	77.46	80.80	-4,329.60	118.47	668.46	515.72	152.75	4.376	
17,600.00	12,914.00	17,477.44	12,807.00	79.45	78.98	80.80	-4,429.60	118.47	668.46	512.70	155.76	4.292	
17,700.00	12,914.00	17,577.44	12,807.00	80.96	80.51	80.80	-4,529.60	118.47	668.46	509.68	158.78	4.210	
17,800.00	12,914.00	17,677.44	12,807.00	82.48	82.04	80.80	-4,629.60	118.47	668.46	506.65	161.81	4.131	
17,900.00	12,914.00	17,777.44	12,807.00	84.00	83.56	80.80	-4,729.60	118.47	668.46	503.62	164.84	4.055	
18,000.00	12,914.00	17,877.44	12,807.00	85.53	85.12	80.80	-4,829.60	118.47	668.46	500.57	167.89	3.982	
18,100.00	12,914.00	17,977.44	12,807.00	87.06	86.66	80.80	-4,929.60	118.47	668.46	497.52	170.94	3.911	
18,200.00	12,914.00	18,077.44	12,807.00	88.59	88.21	80.80	-5,029.60	118.47	668.46	494.47	174.00	3.842	
18,300.00	12,914.00	18,177.44	12,807.00	90.13	89.76	80.80	-5,129.60	118.47	668.46	491.40	177.06	3.775	
18,400.00	12,914.00	18,277.44	12,807.00	91.67	91.31	80.80	-5,229.60	118.47	668.46	488.33	180.13	3.711	
18,500.00	12,914.00	18,377.44	12,807.00	93.21	92.87	80.80	-5,329.60	118.47	668.46	485.26	183.21	3.649	
18,600.00	12,914.00	18,477.44	12,807.00	94.76	94.42	80.80	-5,429.60	118.47	668.46	482.17	186.29	3.588	
18,700.00	12,914.00	18,577.44	12,807.00	96.31	95.98	80.80	-5,529.60	118.47	668.46	479.09	189.37	3.530	
18,800.00	12,914.00	18,677.44	12,807.00	97.86	97.55	80.80	-5,629.60	118.47	668.46	476.00	192.47	3.473	
18,900.00	12,914.00	18,777.44	12,807.00	99.42	99.11	80.80	-5,729.60	118.47	668.46	472.90	195.56	3.418	
19,000.00	12,914.00	18,877.44	12,807.00	100.98	100.68	80.80	-5,829.60	118.47	668.46	469.80	198.66	3.365	
19,100.00	12,914.00	18,977.44	12,807.00	102.54	102.25	80.80	-5,929.60	118.47	668.46	466.70	201.77	3.313	
19,200.00	12,914.00	19,077.44	12,807.00	104.10	103.82	80.80	-6,029.60	118.47	668.46	463.59	204.87	3.263	

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

LEAM Drilling Systems LLC

Anticollision Report

Company: Devon Energy
Project: Lea County, NM (NAD-83)
Reference Site: Fighting Okra 18-19 Fed
Site Error: 0.00 usft
Reference Well: 85H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Plan #1

Local Co-ordinate Reference: Well 85H
TVD Reference: 3369.1' GE + 25' KB @ 3394.10usft
MD Reference: 3369.1' GE + 25' KB @ 3394.10usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDM 5000.1 Multi User Db
Offset TVD Reference: Offset Datum

Offset Design Fighting Okra 18-19 Fed - 6H - OH - Plan #1													Offset Site Error: 0.00 usft
Survey Program: D-LEAM MWD+HDGM													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
19,300.00	12,914.00	19,177.44	12,807.00	105.67	105.39	80.80	-6,129.60	118.47	668.46	460.48	207.99	3.214	
19,400.00	12,914.00	19,277.44	12,807.00	107.23	106.97	80.80	-6,229.60	118.47	668.46	457.36	211.10	3.167	
19,500.00	12,914.00	19,377.44	12,807.00	108.80	108.55	80.80	-6,329.60	118.47	668.46	454.24	214.22	3.120	
19,600.00	12,914.00	19,477.44	12,807.00	110.37	110.13	80.80	-6,429.60	118.47	668.46	451.12	217.34	3.076	
19,700.00	12,914.00	19,577.44	12,807.00	111.94	111.71	80.80	-6,529.60	118.47	668.46	447.99	220.47	3.032	
19,800.00	12,914.00	19,677.44	12,807.00	113.52	113.29	80.80	-6,629.60	118.47	668.46	444.86	223.60	2.990	
19,900.00	12,914.00	19,777.44	12,807.00	115.09	114.87	80.80	-6,729.60	118.47	668.46	441.73	226.73	2.948	
20,000.00	12,914.00	19,877.44	12,807.00	116.67	116.46	80.80	-6,829.60	118.47	668.46	438.60	229.87	2.908	
20,100.00	12,914.00	19,977.44	12,807.00	118.25	118.04	80.80	-6,929.60	118.47	668.46	435.46	233.01	2.869	
20,200.00	12,914.00	20,077.44	12,807.00	119.83	119.63	80.80	-7,029.60	118.47	668.46	432.32	236.15	2.831	
20,300.00	12,914.00	20,177.44	12,807.00	121.41	121.22	80.80	-7,129.60	118.47	668.46	429.17	239.29	2.794	
20,400.00	12,914.00	20,277.44	12,807.00	123.00	122.81	80.80	-7,229.60	118.47	668.46	426.03	242.43	2.757	
20,500.00	12,914.00	20,377.44	12,807.00	124.58	124.40	80.80	-7,329.60	118.47	668.46	422.88	245.58	2.722	
20,600.00	12,914.00	20,477.44	12,807.00	126.17	125.99	80.80	-7,429.60	118.47	668.46	419.73	248.73	2.687	
20,700.00	12,914.00	20,577.44	12,807.00	127.75	127.58	80.80	-7,529.60	118.47	668.46	416.58	251.88	2.654	
20,800.00	12,914.00	20,677.44	12,807.00	129.34	129.18	80.80	-7,629.60	118.47	668.46	413.43	255.04	2.621	
20,900.00	12,914.00	20,777.44	12,807.00	130.93	130.77	80.80	-7,729.60	118.47	668.46	410.27	258.19	2.589	
21,000.00	12,914.00	20,877.44	12,807.00	132.52	132.37	80.80	-7,829.60	118.47	668.46	407.11	261.35	2.558	
21,100.00	12,914.00	20,977.44	12,807.00	134.11	133.97	80.80	-7,929.60	118.47	668.46	403.95	264.51	2.527	
21,200.00	12,914.00	21,077.44	12,807.00	135.71	135.56	80.80	-8,029.60	118.47	668.46	400.79	267.67	2.497	
21,300.00	12,914.00	21,177.44	12,807.00	137.30	137.16	80.80	-8,129.60	118.47	668.46	397.63	270.84	2.468	
21,400.00	12,914.00	21,277.44	12,807.00	138.90	138.76	80.80	-8,229.60	118.47	668.46	394.46	274.00	2.440	
21,500.00	12,914.00	21,377.44	12,807.00	140.49	140.36	80.80	-8,329.60	118.47	668.46	391.29	277.17	2.412	
21,600.00	12,914.00	21,477.44	12,807.00	142.09	141.97	80.80	-8,429.60	118.47	668.46	388.13	280.34	2.385	
21,700.00	12,914.00	21,577.44	12,807.00	143.68	143.57	80.80	-8,529.60	118.47	668.46	384.96	283.51	2.358	
21,800.00	12,914.00	21,677.44	12,807.00	145.28	145.17	80.80	-8,629.60	118.47	668.46	381.79	286.68	2.332	
21,900.00	12,914.00	21,777.44	12,807.00	146.88	146.77	80.80	-8,729.60	118.47	668.46	378.61	289.85	2.306	
22,000.00	12,914.00	21,877.44	12,807.00	148.48	148.38	80.80	-8,829.60	118.47	668.46	375.44	293.02	2.281	
22,100.00	12,914.00	21,977.44	12,807.00	150.08	149.98	80.80	-8,929.60	118.47	668.46	372.26	296.20	2.257	
22,200.00	12,914.00	22,077.44	12,807.00	151.68	151.59	80.80	-9,029.60	118.47	668.46	369.09	299.38	2.233	
22,300.00	12,914.00	22,177.44	12,807.00	153.28	153.19	80.80	-9,129.60	118.47	668.46	365.91	302.55	2.209	
22,400.00	12,914.00	22,277.44	12,807.00	154.89	154.80	80.80	-9,229.60	118.47	668.46	362.73	305.73	2.186	
22,500.00	12,914.00	22,377.44	12,807.00	156.49	156.41	80.80	-9,329.60	118.47	668.46	359.55	308.91	2.164	
22,600.00	12,914.00	22,477.44	12,807.00	158.09	158.01	80.80	-9,429.60	118.47	668.46	356.37	312.09	2.142	
22,700.00	12,914.00	22,577.44	12,807.00	159.70	159.62	80.80	-9,529.60	118.47	668.46	353.19	315.28	2.120	
22,800.00	12,914.00	22,677.44	12,807.00	161.30	161.23	80.80	-9,629.60	118.47	668.46	350.00	318.46	2.099	
22,867.23	12,914.00	22,744.68	12,807.00	162.38	162.31	80.80	-9,696.83	118.47	668.46	347.86	320.60	2.085	

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
 Project: Lea County, NM (NAD-83)
 Reference Site: Fighting Okra 18-19 Fed
 Site Error: 0.00 usft
 Reference Well: 85H
 Well Error: 0.00 usft
 Reference Wellbore: OH
 Reference Design: Plan #1

Local Co-ordinate Reference: Well 85H
 TVD Reference: 3369.1' GE + 25' KB @ 3394.10usft
 MD Reference: 3369.1' GE + 25' KB @ 3394.10usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Output errors are at: 2.00 sigma
 Database: EDM 5000.1 Multi User Db
 Offset TVD Reference: Offset Datum

Offset Design Fighting Okra 18-19 Fed - 71H - OH - OH												Offset Site Error:	0.00 usft
Survey Program: 166-MWD-ISCWSA, 5236-LEAM MWD+HDGM, 22587-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	
0.00	0.00	0.00	0.00	0.00	0.00	-85.71	293.87	-3,913.40	3,924.43				
100.00	100.00	99.55	99.55	0.08	0.09	-85.71	293.64	-3,913.30	3,924.31	3,924.13	0.18	N/A	
200.00	200.00	255.11	255.10	0.31	0.35	-85.72	292.58	-3,912.24	3,923.71	3,923.04	0.67	5,877.171	
300.00	300.00	387.81	387.76	0.53	0.64	-85.73	291.72	-3,909.33	3,921.42	3,920.23	1.19	3,304.946	
400.00	400.00	495.33	495.25	0.76	0.88	-85.74	291.13	-3,906.54	3,918.78	3,917.14	1.64	2,384.856	
500.00	500.00	581.69	581.58	0.98	1.06	-85.75	290.48	-3,904.42	3,916.28	3,914.23	2.04	1,917.907	
600.00	600.00	665.00	664.87	1.21	1.24	-85.76	289.56	-3,902.67	3,914.11	3,911.68	2.44	1,607.177	
700.00	700.00	728.50	728.35	1.43	1.36	-85.77	288.81	-3,901.78	3,912.64	3,909.86	2.78	1,404.955	
798.93	798.93	789.18	789.03	1.66	1.48	-85.77	288.24	-3,901.53	3,912.16	3,909.03	3.13	1,251.013	
800.00	800.00	789.83	789.69	1.66	1.48	-85.77	288.23	-3,901.53	3,912.16	3,909.03	3.13	1,249.528	
900.00	900.00	864.00	863.85	1.88	1.63	-85.78	287.70	-3,902.02	3,912.70	3,909.19	3.50	1,117.007	
1,000.00	1,000.00	947.44	947.28	2.11	1.80	-85.79	287.38	-3,903.00	3,913.80	3,909.91	3.90	1,004.287	
1,100.00	1,100.00	1,044.01	1,043.85	2.33	2.00	-85.79	287.35	-3,904.08	3,914.92	3,910.60	4.32	906.007	
1,200.00	1,200.00	1,138.43	1,138.26	2.56	2.19	-85.79	287.57	-3,905.25	3,916.17	3,911.43	4.74	825.950	
1,300.00	1,300.00	1,241.47	1,241.29	2.78	2.41	-85.78	288.01	-3,906.57	3,917.47	3,912.29	5.18	755.771	
1,400.00	1,400.00	1,346.97	1,346.78	3.01	2.63	-85.78	288.53	-3,907.78	3,918.66	3,913.03	5.63	695.856	
1,500.00	1,500.00	1,463.19	1,463.00	3.23	2.88	-85.77	289.05	-3,908.79	3,919.56	3,913.45	6.10	642.057	
1,600.00	1,600.00	1,570.17	1,569.97	3.46	3.10	-85.77	289.40	-3,909.35	3,920.09	3,913.54	6.56	597.990	
1,700.00	1,700.00	1,665.49	1,665.29	3.68	3.30	-85.76	289.61	-3,909.88	3,920.67	3,913.69	6.98	561.873	
1,800.00	1,800.00	1,766.31	1,766.11	3.91	3.51	-85.76	289.72	-3,910.54	3,921.33	3,913.91	7.41	529.033	
1,900.00	1,900.00	1,873.35	1,873.15	4.13	3.73	-85.76	289.75	-3,911.09	3,921.85	3,913.99	7.86	498.952	
2,000.00	2,000.00	1,979.77	1,979.56	4.35	3.96	-85.76	289.69	-3,911.47	3,922.20	3,913.89	8.31	471.868	
2,100.00	2,100.00	2,085.92	2,085.71	4.58	4.19	-85.77	289.60	-3,911.68	3,922.39	3,913.62	8.77	447.472	
2,200.00	2,200.00	2,188.35	2,188.14	4.80	4.40	-85.77	289.51	-3,911.76	3,922.46	3,913.26	9.21	426.079	
2,300.00	2,300.00	2,290.54	2,290.34	5.03	4.62	-85.77	289.48	-3,911.79	3,922.49	3,912.84	9.65	406.680	
2,400.00	2,400.00	2,396.11	2,395.91	5.25	4.84	-85.77	289.62	-3,911.70	3,922.41	3,912.32	10.09	388.718	
2,500.00	2,500.00	2,504.19	2,503.98	5.48	5.07	-85.76	290.04	-3,911.42	3,922.18	3,911.64	10.54	372.010	
2,600.00	2,600.00	2,619.67	2,619.47	5.70	5.32	-85.75	290.61	-3,910.74	3,921.63	3,910.61	11.02	355.970	
2,700.00	2,700.00	2,730.15	2,729.94	5.93	5.56	-85.74	291.23	-3,909.69	3,920.72	3,909.24	11.48	341.509	
2,800.00	2,800.00	2,837.51	2,837.28	6.15	5.79	-85.73	291.99	-3,908.44	3,919.62	3,907.68	11.94	328.320	
2,900.00	2,900.00	2,952.27	2,952.03	6.38	6.04	-85.71	292.88	-3,906.79	3,918.24	3,905.83	12.41	315.663	
3,000.00	3,000.00	3,074.27	3,074.01	6.60	6.31	-85.70	293.73	-3,904.50	3,916.44	3,903.53	12.90	303.533	
3,100.00	3,100.00	3,218.20	3,217.88	6.83	6.62	-85.67	295.07	-3,900.50	3,913.73	3,900.29	13.44	291.204	
3,200.00	3,200.00	3,337.40	3,336.98	7.05	6.89	-85.65	296.36	-3,896.17	3,910.18	3,896.26	13.92	280.838	
3,300.00	3,300.00	3,447.67	3,447.17	7.28	7.13	-85.63	297.34	-3,891.74	3,906.24	3,891.86	14.38	271.553	
3,400.00	3,400.00	3,540.53	3,539.95	7.50	7.32	-85.62	298.08	-3,888.02	3,902.31	3,887.51	14.80	263.638	
3,500.00	3,500.00	3,638.56	3,637.90	7.73	7.53	-85.60	298.82	-3,884.27	3,898.55	3,883.32	15.23	255.989	
3,600.00	3,600.00	3,753.83	3,753.07	7.94	7.77	-145.52	299.74	-3,879.59	3,895.28	3,879.59	15.68	248.365	
3,700.00	3,699.96	3,857.08	3,856.22	8.16	7.99	-145.53	300.64	-3,875.07	3,893.14	3,877.03	16.11	241.684	
3,787.80	3,787.68	3,939.89	3,938.95	8.34	8.16	-145.55	301.35	-3,871.53	3,892.53	3,876.06	16.47	236.377 CC	
3,800.00	3,799.86	3,951.40	3,950.45	8.37	8.19	-145.56	301.45	-3,871.04	3,892.54	3,876.03	16.52	235.663 ES	
3,900.00	3,899.68	4,043.46	4,042.43	8.58	8.38	-145.58	302.26	-3,867.26	3,893.55	3,876.63	16.92	230.128	
4,000.00	3,999.37	4,133.71	4,132.60	8.80	8.56	-145.61	303.19	-3,863.75	3,896.23	3,878.91	17.32	225.016	
4,100.00	4,098.90	4,222.15	4,220.98	9.02	8.74	-145.63	304.22	-3,860.53	3,900.61	3,882.90	17.71	220.243	
4,172.70	4,171.16	4,284.97	4,283.76	9.19	8.87	-145.66	304.89	-3,858.43	3,904.91	3,886.91	18.00	216.976	
4,200.00	4,198.27	4,308.55	4,307.32	9.25	8.92	-145.67	305.12	-3,857.68	3,906.71	3,888.61	18.10	215.784	
4,300.00	4,297.58	4,397.76	4,396.49	9.48	9.11	-145.75	305.91	-3,855.05	3,913.53	3,895.02	18.51	211.470	
4,400.00	4,396.89	4,494.54	4,493.23	9.71	9.31	-145.82	306.84	-3,852.32	3,920.49	3,901.57	18.93	207.154	
4,500.00	4,496.20	4,596.07	4,594.71	9.95	9.52	-145.90	307.96	-3,849.50	3,927.52	3,908.16	19.36	202.900	
4,600.00	4,595.51	4,707.99	4,706.58	10.19	9.76	-145.99	308.96	-3,846.16	3,934.33	3,914.52	19.81	198.581	
4,700.00	4,694.83	4,831.91	4,830.43	10.43	10.03	-146.10	309.62	-3,841.97	3,940.75	3,920.46	20.29	194.202	
4,800.00	4,794.14	4,956.47	4,954.89	10.67	10.30	-146.21	309.77	-3,836.88	3,946.42	3,925.65	20.77	189.967	

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

LEAM Drilling Systems LLC

Anticollision Report

Company: Devon Energy
 Project: Lea County, NM (NAD-83)
 Reference Site: Fighting Okra 18-19 Fed
 Site Error: 0.00 usft
 Reference Well: 85H
 Well Error: 0.00 usft
 Reference Wellbore: OH
 Reference Design: Plan #1

Local Co-ordinate Reference: Well 85H
 TVD Reference: 3369.1' GE + 25' KB @ 3394.10usft
 MD Reference: 3369.1' GE + 25' KB @ 3394.10usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Output errors are at: 2.00 sigma
 Database: EDM 5000.1 Multi User Db
 Offset TVD Reference: Offset Datum

Offset Design Fighting Okra 18-19 Fed - 71H - OH - OH												Offset Site Error:	0.00 usft
Survey Program: 166-MWD-ISCWSA, 5236-LEAM MWD+HDGM, 22587-Project												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)					
4,900.00	4,893.45	5,049.13	5,047.47	10.92	10.50	-146.29	309.65	-3,832.96	3,951.95	3,930.75	21.20	186.448	
5,000.00	4,992.76	5,140.53	5,138.79	11.17	10.69	-146.38	309.42	-3,829.26	3,957.66	3,936.06	21.61	183.173	
5,100.00	5,092.07	5,224.19	5,222.38	11.42	10.78	-146.46	309.32	-3,826.13	3,963.71	3,941.78	21.92	180.788	
5,200.00	5,191.38	5,306.34	5,304.49	11.67	10.80	-146.53	309.33	-3,823.40	3,970.18	3,948.01	22.17	179.072	
5,300.00	5,290.69	5,400.47	5,398.58	11.93	10.81	-146.62	309.30	-3,820.59	3,976.99	3,954.59	22.41	177.473	
5,400.00	5,390.01	5,505.56	5,503.62	12.18	10.83	-146.71	309.36	-3,817.41	3,983.79	3,961.14	22.65	175.869	
5,500.00	5,489.32	5,661.43	5,659.37	12.44	10.86	-146.85	309.50	-3,811.23	3,989.57	3,966.67	22.90	174.180	
5,600.00	5,588.63	5,791.23	5,789.02	12.70	10.90	-146.96	309.86	-3,805.05	3,994.71	3,971.55	23.16	172.458	
5,700.00	5,687.94	5,884.86	5,882.52	12.96	10.93	-147.04	309.84	-3,800.11	3,999.30	3,975.88	23.42	170.739	
5,800.00	5,787.25	6,063.23	6,060.55	13.22	11.01	-147.19	310.41	-3,789.14	4,003.00	3,979.29	23.70	168.895	
5,900.00	5,886.56	6,225.07	6,221.85	13.48	11.11	-147.32	310.86	-3,776.12	4,004.73	3,980.74	23.98	166.970	
6,000.00	5,985.88	6,313.20	6,309.67	13.75	11.16	-147.39	311.12	-3,768.60	4,006.10	3,981.83	24.27	165.097	
6,100.00	6,085.19	6,399.51	6,395.69	14.01	11.22	-147.46	311.33	-3,761.58	4,007.86	3,983.31	24.55	163.266	
6,200.00	6,184.50	6,500.41	6,496.26	14.28	11.29	-147.54	311.77	-3,753.49	4,009.76	3,984.92	24.84	161.429	
6,300.00	6,283.81	6,603.98	6,599.49	14.55	11.38	-147.62	312.51	-3,745.07	4,011.57	3,986.43	25.14	159.587	
6,400.00	6,383.12	6,711.44	6,706.59	14.81	11.47	-147.70	313.38	-3,736.26	4,013.32	3,987.88	25.44	157.748	
6,500.00	6,482.43	6,841.85	6,836.50	15.08	11.59	-147.79	314.58	-3,724.94	4,014.61	3,988.85	25.76	155.855	
6,600.00	6,581.75	6,936.67	6,930.91	15.35	11.68	-147.86	315.69	-3,716.32	4,015.49	3,989.43	26.07	154.040	
6,700.00	6,681.06	7,046.73	7,040.50	15.62	11.79	-147.93	317.14	-3,706.26	4,016.33	3,989.94	26.39	152.204	
6,800.00	6,780.37	7,133.00	7,126.42	15.90	11.88	-147.98	318.37	-3,698.48	4,017.30	3,990.60	26.70	150.457	
6,900.00	6,879.68	7,232.93	7,225.94	16.17	11.99	-148.05	319.88	-3,689.64	4,018.45	3,991.42	27.02	148.699	
7,000.00	6,978.99	7,332.08	7,324.69	16.44	12.10	-148.11	321.47	-3,680.79	4,019.54	3,992.18	27.35	146.951	
7,100.00	7,078.30	7,427.29	7,419.51	16.71	12.21	-148.17	322.88	-3,672.38	4,020.71	3,993.03	27.68	145.259	
7,200.00	7,177.61	7,526.48	7,518.31	16.99	12.33	-148.23	324.29	-3,663.67	4,021.94	3,993.93	28.01	143.577	
7,300.00	7,276.93	7,623.37	7,614.81	17.26	12.45	-148.29	325.78	-3,655.20	4,023.22	3,994.86	28.35	141.910	
7,400.00	7,376.24	7,712.75	7,703.86	17.54	12.57	-148.35	327.03	-3,647.55	4,024.68	3,996.00	28.68	140.318	
7,500.00	7,475.55	7,808.41	7,799.17	17.81	12.68	-148.41	328.16	-3,639.56	4,026.35	3,997.33	29.02	138.752	
7,600.00	7,574.86	7,912.72	7,903.11	18.09	12.82	-148.49	329.17	-3,630.78	4,027.95	3,998.59	29.36	137.171	
7,700.00	7,674.17	7,987.00	7,977.13	18.37	12.91	-148.54	329.80	-3,624.63	4,029.74	4,000.05	29.69	135.723	
7,800.00	7,773.48	8,059.32	8,049.24	18.64	13.01	-148.59	330.35	-3,619.11	4,032.19	4,002.18	30.02	134.330	
7,900.00	7,872.80	8,152.38	8,142.08	18.92	13.13	-148.67	330.70	-3,612.72	4,035.34	4,004.98	30.36	132.913	
8,000.00	7,972.11	8,384.72	8,373.59	19.20	13.46	-148.90	328.32	-3,593.37	4,037.30	4,006.47	30.82	130.977	
8,100.00	8,071.42	8,486.45	8,474.75	19.48	13.61	-149.01	325.97	-3,582.95	4,037.04	4,005.85	31.19	129.451	
8,141.78	8,112.91	8,520.47	8,508.58	19.60	13.67	-149.05	325.13	-3,579.52	4,037.00	4,005.67	31.33	128.851	
8,200.00	8,170.73	8,568.14	8,556.01	19.76	13.74	-149.11	323.96	-3,574.81	4,037.08	4,005.54	31.53	128.026	
8,300.00	8,270.04	8,651.00	8,638.47	20.04	13.87	-149.21	322.09	-3,566.90	4,037.55	4,005.67	31.88	126.834	
8,400.00	8,369.35	8,735.45	8,722.54	20.32	14.01	-149.30	320.19	-3,559.17	4,038.44	4,006.20	32.24	125.275	
8,500.00	8,468.66	8,805.63	8,792.44	20.60	14.12	-149.39	318.51	-3,553.12	4,039.88	4,007.31	32.58	124.013	
8,600.00	8,567.98	8,891.43	8,877.95	20.88	14.25	-149.49	316.52	-3,546.31	4,042.00	4,009.07	32.93	122.735	
8,700.00	8,667.29	8,986.66	8,972.86	21.16	14.40	-149.59	314.48	-3,538.80	4,044.21	4,010.91	33.30	121.446	
8,800.00	8,766.60	9,067.49	9,053.43	21.44	14.53	-149.69	312.60	-3,532.65	4,046.72	4,013.06	33.65	120.245	
8,900.00	8,865.91	9,146.19	9,131.92	21.72	14.66	-149.78	310.83	-3,527.15	4,049.83	4,015.83	34.01	119.093	
9,000.00	8,965.22	9,245.80	9,231.27	22.00	14.81	-149.89	308.69	-3,520.36	4,053.16	4,018.78	34.38	117.879	
9,100.00	9,064.53	9,335.98	9,321.23	22.28	14.96	-149.99	307.05	-3,514.27	4,056.57	4,021.81	34.75	116.724	
9,200.00	9,163.85	9,409.00	9,394.10	22.57	15.08	-150.07	305.92	-3,509.70	4,060.48	4,025.38	35.10	115.675	
9,300.00	9,263.16	9,481.63	9,466.62	22.85	15.19	-150.14	304.88	-3,505.64	4,065.07	4,029.62	35.45	114.668	
9,400.00	9,362.47	9,551.47	9,536.36	23.13	15.30	-150.21	303.93	-3,502.22	4,070.37	4,034.57	35.79	113.714	
9,500.00	9,461.78	9,620.16	9,604.99	23.41	15.40	-150.28	303.06	-3,499.37	4,076.43	4,040.29	36.14	112.807	
9,600.00	9,561.09	9,694.00	9,678.78	23.70	15.51	-150.35	302.21	-3,496.90	4,083.25	4,046.77	36.48	111.918	
9,700.00	9,660.40	9,761.26	9,746.02	23.98	15.61	-150.42	301.71	-3,495.12	4,090.79	4,053.97	36.82	111.094	
9,800.00	9,759.71	9,839.17	9,823.91	24.26	15.73	-150.48	301.58	-3,493.53	4,098.96	4,061.78	37.18	110.254	
9,900.00	9,859.03	9,910.24	9,894.97	24.55	15.83	-150.54	301.66	-3,492.42	4,107.65	4,070.13	37.52	109.476	

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

LEAM Drilling Systems LLC

Anticollision Report

Company: Devon Energy
Project: Lea County, NM (NAD-83)
Reference Site: Fighting Okra 18-19 Fed
Site Error: 0.00 usft
Reference Well: 85H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Plan #1

Local Co-ordinate Reference: Well 85H
TVD Reference: 3369.1' GE + 25' KB @ 3394.10usft
MD Reference: 3369.1' GE + 25' KB @ 3394.10usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDM 5000.1 Multi User Db
Offset TVD Reference: Offset Datum

Offset Design											Offset Site Error: 0.00 usft		
Survey Program: 166-MWD-ISCWSA, 5236-LEAM MWD+HDGM, 22587-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
10,000.00	9,958.34	9,978.00	9,962.73	24.83	15.92	-150.59	301.69	-3,492.04	4,117.25	4,079.40	37.86	108.753	
10,100.00	10,057.65	10,111.60	10,096.32	25.11	16.11	-150.69	302.24	-3,490.97	4,126.66	4,088.36	38.30	107.746	
10,200.00	10,156.96	10,277.61	10,262.29	25.40	16.35	-150.80	304.18	-3,488.12	4,135.32	4,096.53	38.79	106.600	
10,300.00	10,256.27	10,358.00	10,342.65	25.68	16.47	-150.85	305.28	-3,486.12	4,143.06	4,103.90	39.16	105.809	
10,400.00	10,355.58	10,424.81	10,409.44	25.97	16.57	-150.89	306.20	-3,484.89	4,151.42	4,111.92	39.50	105.101	
10,500.00	10,454.90	10,499.01	10,483.63	26.25	16.68	-150.93	307.03	-3,484.01	4,160.47	4,120.61	39.85	104.397	
10,600.00	10,554.21	10,547.00	10,531.62	26.54	16.75	-150.97	307.32	-3,483.65	4,170.20	4,130.04	40.16	103.838	
10,700.00	10,653.52	10,613.15	10,597.77	26.82	16.84	-151.03	306.74	-3,483.81	4,180.86	4,140.36	40.49	103.244	
10,800.00	10,752.83	10,642.00	10,626.60	27.11	16.88	-151.06	305.97	-3,484.21	4,192.92	4,152.15	40.76	102.660	
10,900.00	10,852.14	10,737.00	10,721.49	27.39	17.00	-151.19	302.22	-3,486.77	4,205.97	4,164.83	41.14	102.226	
11,000.00	10,951.45	10,786.95	10,771.35	27.68	17.07	-151.26	299.75	-3,488.64	4,219.91	4,178.47	41.44	101.820	
11,100.00	11,050.77	10,925.88	10,909.97	27.96	17.24	-151.47	292.14	-3,493.74	4,234.14	4,192.23	41.90	101.049	
11,178.62	11,128.84	11,008.46	10,992.40	28.19	17.35	-151.59	287.75	-3,496.10	4,244.61	4,202.40	42.22	100.546	
11,200.00	11,150.08	11,022.00	11,005.92	28.24	17.36	-151.62	287.04	-3,496.48	4,247.42	4,205.14	42.28	100.458	
11,300.00	11,249.53	11,116.00	11,099.77	28.46	17.49	-151.80	282.80	-3,499.36	4,259.88	4,217.26	42.62	99.954	
11,400.00	11,349.15	11,194.25	11,177.95	28.66	17.59	-151.92	280.96	-3,502.14	4,271.19	4,228.26	42.93	99.501	
11,500.00	11,448.90	11,363.03	11,346.67	28.86	17.83	-152.03	281.39	-3,506.37	4,279.53	4,236.13	43.40	98.617	
11,600.00	11,548.76	11,438.95	11,422.57	29.05	17.93	-152.09	281.29	-3,508.28	4,286.67	4,242.98	43.69	98.111	
11,700.00	11,648.70	11,527.09	11,510.67	29.22	18.06	-152.13	281.58	-3,510.80	4,292.62	4,248.61	44.01	97.541	
11,800.00	11,748.68	11,616.29	11,599.82	29.39	18.18	-152.17	281.02	-3,513.57	4,297.31	4,252.99	44.32	96.959	
11,851.32	11,800.00	11,665.40	11,648.90	29.47	18.25	-92.28	280.35	-3,515.15	4,299.18	4,254.70	44.49	96.643	
11,900.00	11,848.68	11,711.10	11,694.58	29.56	18.31	-92.29	279.55	-3,516.63	4,300.80	4,256.15	44.65	96.326	
12,000.00	11,948.68	11,804.69	11,788.08	29.75	18.45	-92.31	277.41	-3,519.76	4,304.23	4,259.23	45.00	95.650	
12,100.00	12,048.68	11,927.46	11,910.73	29.94	18.62	-92.36	273.61	-3,523.80	4,307.69	4,262.29	45.41	94.871	
12,200.00	12,148.68	12,040.59	12,023.76	30.14	18.79	-92.41	269.76	-3,526.63	4,310.31	4,264.51	45.80	94.116	
12,300.00	12,248.68	12,127.44	12,110.53	30.33	18.92	-92.45	266.96	-3,528.95	4,313.12	4,266.97	46.15	93.464	
12,392.36	12,341.04	12,200.50	12,183.53	30.51	19.03	-92.47	264.75	-3,531.17	4,316.04	4,269.59	46.46	92.903	
12,400.00	12,348.68	12,206.20	12,189.23	30.52	19.04	87.50	264.57	-3,531.36	4,316.31	4,269.82	46.48	92.861	
12,450.00	12,398.58	12,255.00	12,237.96	30.59	19.11	87.35	262.95	-3,533.07	4,318.01	4,271.36	46.64	92.578	
12,500.00	12,448.05	12,297.49	12,280.39	30.65	19.18	87.27	261.21	-3,534.59	4,319.54	4,272.77	46.78	92.346	
12,550.00	12,496.70	12,332.80	12,315.62	30.70	19.23	87.21	259.13	-3,535.80	4,320.89	4,274.00	46.88	92.162	
12,600.00	12,544.16	12,347.00	12,329.74	30.73	19.25	87.10	257.77	-3,536.34	4,322.33	4,275.39	46.94	92.082	
12,650.00	12,590.08	12,379.00	12,361.36	30.75	19.30	87.05	253.08	-3,537.70	4,323.87	4,276.85	47.02	91.961	
12,700.00	12,634.11	12,379.00	12,361.36	30.76	19.30	86.88	253.08	-3,537.70	4,325.61	4,278.59	47.03	91.981	
12,750.00	12,675.90	12,410.00	12,391.55	30.75	19.35	86.83	246.30	-3,539.45	4,327.57	4,280.49	47.09	91.905	
12,800.00	12,715.15	12,410.00	12,391.55	30.74	19.35	86.63	246.30	-3,539.45	4,329.66	4,282.58	47.08	91.959	
12,850.00	12,751.55	12,410.00	12,391.55	30.73	19.35	86.39	246.30	-3,539.45	4,332.06	4,284.99	47.07	92.027	
12,900.00	12,784.82	12,442.00	12,422.14	30.70	19.40	86.35	237.24	-3,541.88	4,334.59	4,287.46	47.13	91.976	
12,950.00	12,814.72	12,442.00	12,422.14	30.68	19.40	86.09	237.24	-3,541.88	4,337.28	4,290.16	47.12	92.049	
13,000.00	12,841.01	12,464.50	12,443.28	30.65	19.43	85.99	229.80	-3,543.85	4,340.14	4,292.98	47.16	92.028	
13,050.00	12,863.50	12,489.00	12,465.98	30.62	19.47	85.91	220.86	-3,546.10	4,343.10	4,295.89	47.21	91.989	
13,100.00	12,882.01	12,489.00	12,465.98	30.60	19.47	85.60	220.86	-3,546.10	4,346.19	4,298.97	47.22	92.037	
13,150.00	12,896.40	12,489.00	12,465.98	30.59	19.47	85.27	220.86	-3,546.10	4,349.52	4,302.27	47.24	92.071	
13,200.00	12,906.57	12,489.00	12,465.98	30.59	19.47	84.91	220.86	-3,546.10	4,353.06	4,305.79	47.27	92.090	
13,250.00	12,912.43	12,750.35	12,673.83	30.61	19.95	87.14	67.92	-3,568.36	4,355.20	4,307.18	48.02	90.699	
13,292.36	12,914.00	12,774.00	12,688.27	30.63	20.01	87.16	49.26	-3,569.85	4,356.90	4,308.75	48.15	90.484	
13,300.00	12,914.00	12,774.00	12,688.27	30.64	20.01	87.16	49.26	-3,569.85	4,357.20	4,309.04	48.16	90.473	
13,400.00	12,914.00	12,908.74	12,752.44	30.78	20.49	88.01	-68.60	-3,577.71	4,361.65	4,312.70	48.95	89.111	
13,500.00	12,914.00	13,011.00	12,781.76	31.01	21.01	88.39	-166.31	-3,582.09	4,365.19	4,315.40	49.79	87.665	
13,600.00	12,914.00	13,135.71	12,795.29	31.35	21.80	88.57	-290.07	-3,586.70	4,368.62	4,317.60	51.01	85.636	
13,700.00	12,914.00	13,400.00	12,799.42	31.78	23.86	88.63	-554.26	-3,588.74	4,368.39	4,314.69	53.71	81.340	
13,740.18	12,914.00	13,415.51	12,799.22	31.98	24.00	88.62	-569.77	-3,588.72	4,368.31	4,314.26	54.05	80.822	

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

LEAM Drilling Systems LLC

Anticollision Report

Company: Devon Energy
Project: Lea County, NM (NAD-83)
Reference Site: Fighting Okra 18-19 Fed
Site Error: 0.00 usft
Reference Well: 85H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Plan #1

Local Co-ordinate Reference: Well 85H
TVD Reference: 3369.1' GE + 25' KB @ 3394.10usft
MD Reference: 3369.1' GE + 25' KB @ 3394.10usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDM 5000.1 Multi User Db
Offset TVD Reference: Offset Datum

Offset Design Fighting Okra 18-19 Fed - 71H - OH - OH												Offset Site Error:	0.00 usft
Survey Program: 166-MWD-ISCWSA, 5236-LEAM MWD+HDGM, 22587-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
13,800.00	12,914.00	13,457.97	12,798.59	32.29	24.39	88.62	-612.23	-3,588.79	4,368.43	4,313.67	54.76	79.776	
13,900.00	12,914.00	13,520.91	12,797.55	32.89	24.97	88.60	-675.15	-3,589.23	4,369.20	4,313.28	55.92	78.133	
14,000.00	12,914.00	13,590.00	12,797.68	33.57	25.60	88.60	-744.23	-3,590.56	4,371.02	4,313.83	57.20	76.423	
14,100.00	12,914.00	13,635.73	12,798.11	34.31	26.04	88.61	-789.94	-3,591.89	4,373.74	4,315.43	58.31	75.009	
14,200.00	12,914.00	13,685.00	12,798.09	35.11	26.51	88.61	-839.18	-3,593.63	4,377.39	4,317.87	59.51	73.554	
14,300.00	12,914.00	13,735.25	12,797.16	35.97	27.05	88.60	-889.37	-3,595.95	4,382.18	4,321.34	60.84	72.027	
14,400.00	12,914.00	13,971.00	12,792.59	36.89	29.52	88.54	-1,124.77	-3,605.27	4,386.27	4,321.75	64.52	67.983	
14,500.00	12,914.00	14,029.28	12,793.74	37.85	30.17	88.56	-1,183.02	-3,606.46	4,388.62	4,322.55	66.07	66.423	
14,600.00	12,914.00	14,066.00	12,794.08	38.86	30.58	88.56	-1,219.71	-3,608.01	4,392.73	4,325.37	67.36	65.209	
14,700.00	12,914.00	14,399.74	12,791.89	39.91	34.57	88.54	-1,553.22	-3,616.01	4,395.83	4,322.85	72.98	60.233	
14,744.63	12,914.00	14,420.75	12,792.07	40.39	34.82	88.54	-1,574.23	-3,615.95	4,395.71	4,322.03	73.68	59.657	
14,800.00	12,914.00	14,447.00	12,792.32	41.00	35.14	88.54	-1,600.48	-3,616.05	4,395.90	4,321.34	74.56	58.961	
14,900.00	12,914.00	14,447.00	12,792.32	42.12	35.14	88.54	-1,600.48	-3,616.05	4,397.70	4,322.23	75.46	58.276	
15,000.00	12,914.00	14,490.74	12,792.71	43.28	35.68	88.55	-1,644.20	-3,617.13	4,400.78	4,323.74	77.03	57.127	
15,100.00	12,914.00	14,828.00	12,796.72	44.46	39.98	88.60	-1,981.09	-3,625.18	4,405.12	4,321.95	83.16	52.969	
15,200.00	12,914.00	14,867.67	12,798.63	45.68	40.78	88.63	-2,040.71	-3,623.97	4,403.57	4,318.46	85.12	51.735	
15,202.01	12,914.00	14,888.21	12,798.64	45.70	40.79	88.63	-2,041.25	-3,623.97	4,403.57	4,318.42	85.15	51.717	
15,300.00	12,914.00	14,923.00	12,798.71	46.92	41.26	88.63	-2,076.03	-3,624.27	4,404.18	4,317.49	86.70	50.801	
15,400.00	12,914.00	15,181.63	12,796.77	48.18	44.81	88.60	-2,334.58	-3,621.09	4,401.98	4,310.05	91.92	47.887	
15,500.00	12,914.00	15,327.72	12,793.55	49.46	46.87	88.56	-2,480.57	-3,617.19	4,399.50	4,304.11	95.39	46.120	
15,600.00	12,914.00	15,399.00	12,791.56	50.77	47.88	88.53	-2,551.78	-3,614.70	4,396.17	4,298.50	97.68	45.008	
15,700.00	12,914.00	15,445.07	12,789.35	52.09	48.55	88.50	-2,597.78	-3,613.50	4,393.86	4,294.30	99.57	44.130	
15,800.00	12,914.00	15,494.00	12,785.51	53.43	49.26	88.45	-2,646.56	-3,613.13	4,393.09	4,291.58	101.51	43.279	
15,816.96	12,914.00	15,494.00	12,785.51	53.66	49.26	88.45	-2,646.56	-3,613.13	4,393.06	4,291.36	101.70	43.198	
15,900.00	12,914.00	15,546.72	12,780.88	54.78	49.99	88.39	-2,699.08	-3,613.30	4,393.46	4,289.98	103.48	42.457	
16,000.00	12,914.00	15,684.00	12,773.50	56.15	51.84	88.30	-2,836.12	-3,613.62	4,393.90	4,287.08	106.82	41.134	
16,006.87	12,914.00	15,684.00	12,773.50	56.25	51.84	88.30	-2,836.12	-3,613.62	4,393.89	4,287.00	106.90	41.104	
16,100.00	12,914.00	15,719.96	12,772.81	57.54	52.34	88.29	-2,872.08	-3,613.75	4,394.42	4,285.88	108.54	40.486	
16,200.00	12,914.00	15,780.00	12,771.07	58.94	53.18	88.27	-2,932.07	-3,615.38	4,396.81	4,286.14	110.67	39.730	
16,300.00	12,914.00	15,957.08	12,774.80	60.34	55.66	88.32	-3,109.01	-3,618.54	4,398.82	4,283.99	114.83	38.308	
16,400.00	12,914.00	16,005.89	12,776.87	61.76	56.36	88.34	-3,157.78	-3,619.02	4,399.77	4,282.96	116.81	37.665	
16,500.00	12,914.00	16,066.00	12,778.74	63.19	57.22	88.37	-3,217.83	-3,620.69	4,402.23	4,283.23	119.00	36.994	
16,600.00	12,914.00	16,133.92	12,780.44	64.63	58.20	88.39	-3,285.69	-3,623.13	4,405.55	4,284.22	121.33	36.311	
16,700.00	12,914.00	16,211.97	12,781.24	66.08	59.33	88.40	-3,363.67	-3,625.75	4,408.92	4,285.07	123.84	35.601	
16,800.00	12,914.00	16,291.47	12,777.11	67.54	60.47	88.35	-3,443.00	-3,628.94	4,413.05	4,286.67	126.38	34.919	
16,900.00	12,914.00	16,380.63	12,772.23	69.01	61.74	88.29	-3,531.95	-3,632.50	4,417.22	4,288.15	129.07	34.222	
17,000.00	12,914.00	16,447.00	12,768.91	70.48	62.66	88.25	-3,598.16	-3,635.72	4,422.18	4,290.84	131.35	33.668	
17,100.00	12,914.00	16,527.82	12,765.50	71.96	63.78	88.20	-3,678.79	-3,640.15	4,427.76	4,293.89	133.87	33.075	
17,200.00	12,914.00	16,719.97	12,763.47	73.44	66.51	88.18	-3,870.71	-3,648.97	4,432.38	4,293.90	138.47	32.009	
17,300.00	12,914.00	16,797.67	12,763.75	74.94	67.64	88.19	-3,948.35	-3,651.88	4,436.14	4,295.11	141.03	31.455	
17,400.00	12,914.00	16,863.82	12,763.70	76.43	68.62	88.19	-4,014.44	-3,654.81	4,440.58	4,297.20	143.38	30.971	
17,500.00	12,914.00	16,932.29	12,763.17	77.94	69.62	88.18	-4,082.80	-3,658.42	4,445.84	4,300.07	145.77	30.499	
17,600.00	12,914.00	17,072.38	12,763.02	79.45	71.65	88.18	-4,222.71	-3,665.59	4,450.97	4,301.47	149.49	29.774	
17,700.00	12,914.00	17,165.21	12,762.43	80.96	73.00	88.18	-4,315.44	-3,669.80	4,455.54	4,303.20	152.33	29.249	
17,800.00	12,914.00	17,397.00	12,758.61	82.48	76.40	88.13	-4,547.02	-3,678.23	4,459.70	4,301.93	157.77	28.268	
17,900.00	12,914.00	17,461.86	12,758.59	84.00	77.37	88.13	-4,611.87	-3,679.30	4,461.56	4,301.41	160.15	27.859	
18,000.00	12,914.00	17,492.00	12,758.11	85.53	77.82	88.12	-4,641.99	-3,680.22	4,464.88	4,303.02	161.86	27.584	
18,100.00	12,914.00	17,565.72	12,756.42	87.06	78.92	88.10	-4,715.62	-3,683.24	4,469.14	4,304.75	164.39	27.187	
18,200.00	12,914.00	17,707.83	12,754.37	88.59	81.01	88.08	-4,857.57	-3,689.50	4,473.65	4,305.45	168.19	26.598	
18,300.00	12,914.00	17,778.00	12,754.28	90.13	82.03	88.08	-4,927.69	-3,692.19	4,477.59	4,306.95	170.64	26.240	
18,400.00	12,914.00	17,838.75	12,754.42	91.67	82.90	88.08	-4,988.37	-3,695.00	4,482.33	4,309.45	172.88	25.927	
18,500.00	12,914.00	17,873.00	12,754.61	93.21	83.38	88.09	-5,022.57	-3,697.00	4,488.34	4,313.74	174.60	25.706	

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

LEAM Drilling Systems LLC

Anticollision Report

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Project: Lea County, NM (NAD-83)
Reference Site: Fighting Okra 18-19 Fed
Site Error: 0.00 usft
Reference Well: 85H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Plan #1

Local Co-ordinate Reference: Well 85H
TVD Reference: 3369.1' GE + 25' KB @ 3394.10usft
MD Reference: 3369.1' GE + 25' KB @ 3394.10usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDM 5000.1 Multi User Db
Offset TVD Reference: Offset Datum

Offset Design - Fighting Okra 18-19 Fed - 71H - OH - OH													Offset Site Error: 0.00 usft
Survey Program: 166-MWD-ISCWSA, 5236-LEAM MWD+HDGM, 22587-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
18,600.00	12,914.00	17,923.29	12,754.76	94.76	84.11	88.09	-5,072.74	-3,700.57	4,495.58	4,318.96	176.62	25.453	
18,700.00	12,914.00	17,968.00	12,754.53	96.31	84.76	88.09	-5,117.27	-3,704.45	4,504.19	4,325.69	178.50	25.233	
18,800.00	12,914.00	18,206.31	12,759.35	97.86	88.25	88.16	-5,354.92	-3,720.92	4,509.95	4,325.62	184.33	24.467	
18,900.00	12,914.00	18,755.39	12,775.52	99.42	96.53	88.37	-5,903.06	-3,732.72	4,516.22	4,320.65	195.56	23.093	
19,000.00	12,914.00	18,825.00	12,777.78	100.98	97.59	88.40	-5,972.58	-3,729.99	4,512.35	4,314.20	198.15	22.772	
19,100.00	12,914.00	18,882.90	12,777.60	102.54	98.46	88.39	-6,030.44	-3,728.12	4,509.35	4,308.82	200.53	22.487	
19,200.00	12,914.00	19,052.77	12,777.32	104.10	101.06	88.39	-6,200.20	-3,722.94	4,506.28	4,301.50	204.79	22.005	
19,300.00	12,914.00	19,110.00	12,778.03	105.67	101.93	88.40	-6,257.40	-3,721.37	4,503.28	4,296.10	207.18	21.736	
19,400.00	12,914.00	19,205.00	12,779.03	107.23	103.38	88.41	-6,352.36	-3,718.72	4,500.46	4,290.27	210.19	21.411	
19,500.00	12,914.00	19,263.46	12,779.46	108.80	104.27	88.41	-6,410.79	-3,717.07	4,497.86	4,285.27	212.59	21.158	
19,600.00	12,914.00	19,491.00	12,780.53	110.37	107.75	88.42	-6,638.12	-3,708.55	4,493.42	4,275.61	217.81	20.630	
19,700.00	12,914.00	19,586.00	12,780.36	111.94	109.20	88.42	-6,733.01	-3,704.16	4,488.80	4,267.98	220.83	20.327	
19,800.00	12,914.00	19,586.00	12,780.36	113.52	109.20	88.42	-6,733.01	-3,704.16	4,485.38	4,263.09	222.29	20.178	
19,900.00	12,914.00	19,631.16	12,779.79	115.09	109.88	88.41	-6,778.15	-3,703.39	4,483.71	4,259.27	224.44	19.977	
20,000.00	12,914.00	19,873.00	12,779.18	116.67	113.57	88.40	-7,019.81	-3,696.51	4,480.62	4,250.70	229.92	19.487	
20,100.00	12,914.00	19,921.56	12,779.57	118.25	114.31	88.40	-7,068.28	-3,693.76	4,475.97	4,243.77	232.20	19.276	
20,200.00	12,914.00	19,968.00	12,778.60	119.83	115.03	88.39	-7,114.70	-3,693.44	4,474.34	4,239.92	234.42	19.087	
20,285.11	12,914.00	19,968.00	12,778.60	121.18	115.03	88.39	-7,114.70	-3,693.44	4,473.53	4,237.96	235.57	18.990	
20,300.00	12,914.00	19,968.00	12,778.60	121.41	115.03	88.39	-7,114.70	-3,693.44	4,473.56	4,237.79	235.76	18.975	
20,400.00	12,914.00	20,018.77	12,777.16	123.00	115.80	88.37	-7,165.45	-3,694.23	4,474.82	4,236.87	237.96	18.805	
20,500.00	12,914.00	20,115.87	12,775.58	124.58	117.26	88.35	-7,262.52	-3,695.42	4,476.10	4,235.10	241.00	18.573	
20,600.00	12,914.00	20,322.68	12,770.87	126.17	120.41	88.29	-7,469.26	-3,694.87	4,475.36	4,229.32	246.04	18.189	
20,694.53	12,914.00	20,377.56	12,769.94	127.67	121.23	88.28	-7,524.13	-3,694.60	4,474.94	4,226.68	248.26	18.025	
20,700.00	12,914.00	20,380.77	12,769.90	127.75	121.28	88.28	-7,527.34	-3,694.60	4,474.95	4,226.56	248.39	18.016	
20,800.00	12,914.00	20,443.00	12,769.73	129.34	122.19	88.28	-7,589.57	-3,694.93	4,475.46	4,224.68	250.78	17.846	
20,900.00	12,914.00	20,443.00	12,769.73	130.93	122.19	88.28	-7,589.57	-3,694.93	4,477.47	4,225.49	251.98	17.769	
21,000.00	12,914.00	20,495.16	12,769.98	132.52	122.94	88.28	-7,641.71	-3,696.30	4,480.58	4,226.48	254.11	17.633	
21,100.00	12,914.00	20,538.00	12,770.14	134.11	123.56	88.29	-7,684.48	-3,698.66	4,485.70	4,229.68	256.01	17.521	
21,200.00	12,914.00	20,564.55	12,770.18	135.71	123.96	88.29	-7,710.97	-3,700.51	4,492.15	4,234.60	257.55	17.442	
21,300.00	12,914.00	20,633.00	12,769.73	137.30	124.97	88.28	-7,779.22	-3,705.62	4,499.62	4,239.68	259.95	17.310	
21,400.00	12,914.00	21,102.18	12,758.94	138.90	132.03	88.15	-8,247.67	-3,725.07	4,505.77	4,235.43	270.35	16.666	
21,495.94	12,914.00	21,180.06	12,758.84	140.43	133.20	88.15	-8,325.54	-3,724.85	4,505.52	4,232.51	273.01	16.503	
21,500.00	12,914.00	21,183.11	12,758.84	140.49	133.25	88.15	-8,328.59	-3,724.85	4,505.52	4,232.40	273.12	16.497	
21,600.00	12,914.00	21,299.00	12,759.09	142.09	135.00	88.16	-8,444.48	-3,724.62	4,505.31	4,228.81	276.51	16.294	
21,614.89	12,914.00	21,299.00	12,759.09	142.32	135.00	88.16	-8,444.48	-3,724.62	4,505.29	4,228.58	276.71	16.282	
21,700.00	12,914.00	21,338.22	12,759.15	143.68	135.60	88.16	-8,483.70	-3,724.69	4,505.58	4,227.05	278.53	16.176	
21,800.00	12,914.00	21,395.00	12,758.75	145.28	136.47	88.15	-8,540.46	-3,725.96	4,507.52	4,226.68	280.84	16.050	
21,900.00	12,914.00	21,529.45	12,758.67	146.88	138.53	88.15	-8,674.87	-3,729.04	4,510.05	4,225.41	284.63	15.845	
22,000.00	12,914.00	21,655.85	12,759.82	148.48	140.47	88.17	-8,801.26	-3,729.94	4,510.67	4,222.40	288.27	15.647	
22,100.00	12,914.00	21,775.00	12,761.57	150.08	142.31	88.19	-8,920.40	-3,730.19	4,510.78	4,219.02	291.77	15.460	
22,200.00	12,914.00	21,824.36	12,762.64	151.68	143.06	88.20	-8,969.75	-3,730.40	4,511.35	4,217.38	293.97	15.346	
22,300.00	12,914.00	21,870.00	12,763.23	153.28	143.76	88.21	-9,015.37	-3,731.43	4,513.41	4,217.35	296.06	15.245	
22,400.00	12,914.00	21,908.59	12,763.58	154.89	144.33	88.22	-9,053.93	-3,732.80	4,516.73	4,218.78	297.95	15.159	
22,500.00	12,914.00	21,965.00	12,764.14	156.49	145.17	88.22	-9,110.28	-3,735.33	4,521.15	4,220.99	300.16	15.062	
22,600.00	12,914.00	22,017.87	12,764.69	158.09	145.95	88.23	-9,163.07	-3,738.23	4,526.57	4,224.31	302.26	14.976	
22,700.00	12,914.00	22,080.82	12,765.36	159.70	146.87	88.24	-9,225.89	-3,742.26	4,532.91	4,228.37	304.54	14.885	
22,800.00	12,914.00	22,156.00	12,766.22	161.30	147.96	88.26	-9,300.88	-3,747.48	4,539.83	4,232.77	307.06	14.785	
22,867.23	12,914.00	22,193.98	12,766.66	162.38	148.51	88.26	-9,338.75	-3,750.34	4,544.89	4,236.41	308.48	14.733 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
Project: Lea County, NM (NAD-83)
Reference Site: Fighting Okra 18-19 Fed
Site Error: 0.00 usft
Reference Well: 85H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Plan #1

Local Co-ordinate Reference: Well 85H
TVD Reference: 3369.1' GE + 25' KB @ 3394.10usft
MD Reference: 3369.1' GE + 25' KB @ 3394.10usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM 5000.1 Multi User Db
Offset TVD Reference: Offset Datum

Offset Design Fighting Okra 18-19 Fed - 7H - OH - Plan #1													Offset Site Error: 0.00 usft
Survey Program: 0-LEAM MWD+HDGM													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N-S (usft)	+E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	2.60	2.60	0.00	0.00	-86.01	175.58	-2,517.71	2,523.82				
100.00	100.00	102.60	102.60	0.08	0.09	-86.01	175.58	-2,517.71	2,523.82	2,523.65	0.17	N/A	
200.00	200.00	202.60	202.60	0.31	0.31	-86.01	175.58	-2,517.71	2,523.82	2,523.20	0.62	4,044.911	
300.00	300.00	302.60	302.60	0.53	0.54	-86.01	175.58	-2,517.71	2,523.82	2,522.75	1.07	2,351.062	
400.00	400.00	402.60	402.60	0.76	0.76	-86.01	175.58	-2,517.71	2,523.82	2,522.30	1.52	1,657.124	
500.00	500.00	502.60	502.60	0.98	0.99	-86.01	175.58	-2,517.71	2,523.82	2,521.85	1.97	1,279.475	
600.00	600.00	602.60	602.60	1.21	1.21	-86.01	175.58	-2,517.71	2,523.82	2,521.40	2.42	1,042.008	
700.00	700.00	702.60	702.60	1.43	1.44	-86.01	175.58	-2,517.71	2,523.82	2,520.95	2.87	878.888	
800.00	800.00	802.60	802.60	1.66	1.66	-86.01	175.58	-2,517.71	2,523.82	2,520.50	3.32	759.927	
900.00	900.00	902.60	902.60	1.88	1.89	-86.01	175.58	-2,517.71	2,523.82	2,520.05	3.77	669.330	
1,000.00	1,000.00	1,002.60	1,002.60	2.11	2.11	-86.01	175.58	-2,517.71	2,523.82	2,519.60	4.22	598.033	
1,100.00	1,100.00	1,102.60	1,102.60	2.33	2.34	-86.01	175.58	-2,517.71	2,523.82	2,519.16	4.67	540.464	
1,200.00	1,200.00	1,202.60	1,202.60	2.56	2.56	-86.01	175.58	-2,517.71	2,523.82	2,518.71	5.12	493.005	
1,300.00	1,300.00	1,302.60	1,302.60	2.78	2.79	-86.01	175.58	-2,517.71	2,523.82	2,518.26	5.57	453.208	
1,400.00	1,400.00	1,402.60	1,402.60	3.01	3.01	-86.01	175.58	-2,517.71	2,523.82	2,517.81	6.02	419.356	
1,500.00	1,500.00	1,502.60	1,502.60	3.23	3.24	-86.01	175.58	-2,517.71	2,523.82	2,517.36	6.47	390.210	
1,600.00	1,600.00	1,602.60	1,602.60	3.46	3.46	-86.01	175.58	-2,517.71	2,523.82	2,516.91	6.92	364.852	
1,700.00	1,700.00	1,702.60	1,702.60	3.68	3.69	-86.01	175.58	-2,517.71	2,523.82	2,516.46	7.37	342.588	
1,800.00	1,800.00	1,802.60	1,802.60	3.91	3.91	-86.01	175.58	-2,517.71	2,523.82	2,516.01	7.82	322.886	
1,900.00	1,900.00	1,902.60	1,902.60	4.13	4.14	-86.01	175.58	-2,517.71	2,523.82	2,515.56	8.27	305.326	
2,000.00	2,000.00	2,002.60	2,002.60	4.35	4.36	-86.01	175.58	-2,517.71	2,523.82	2,515.11	8.72	289.578	
2,100.00	2,100.00	2,102.60	2,102.60	4.58	4.59	-86.01	175.58	-2,517.71	2,523.82	2,514.66	9.17	275.375	
2,200.00	2,200.00	2,202.60	2,202.60	4.80	4.81	-86.01	175.58	-2,517.71	2,523.82	2,514.21	9.61	262.499	
2,300.00	2,300.00	2,302.60	2,302.60	5.03	5.03	-86.01	175.58	-2,517.71	2,523.82	2,513.76	10.06	250.774	
2,400.00	2,400.00	2,402.60	2,402.60	5.25	5.26	-86.01	175.58	-2,517.71	2,523.82	2,513.31	10.51	240.052	
2,500.00	2,500.00	2,502.60	2,502.60	5.48	5.48	-86.01	175.58	-2,517.71	2,523.82	2,512.86	10.96	230.209	
2,600.00	2,600.00	2,602.60	2,602.60	5.70	5.71	-86.01	175.58	-2,517.71	2,523.82	2,512.41	11.41	221.141	
2,700.00	2,700.00	2,702.60	2,702.60	5.93	5.93	-86.01	175.58	-2,517.71	2,523.82	2,511.96	11.86	212.761	
2,800.00	2,800.00	2,802.60	2,802.60	6.15	6.16	-86.01	175.58	-2,517.71	2,523.82	2,511.51	12.31	204.993	
2,900.00	2,900.00	2,902.60	2,902.60	6.38	6.38	-86.01	175.58	-2,517.71	2,523.82	2,511.06	12.76	197.772	
3,000.00	3,000.00	3,002.60	3,002.60	6.60	6.61	-86.01	175.58	-2,517.71	2,523.82	2,510.61	13.21	191.042	
3,100.00	3,100.00	3,102.60	3,102.60	6.83	6.83	-86.01	175.58	-2,517.71	2,523.82	2,510.16	13.66	184.755	
3,200.00	3,200.00	3,202.60	3,202.60	7.05	7.06	-86.01	175.58	-2,517.71	2,523.82	2,509.72	14.11	178.869	
3,300.00	3,300.00	3,302.60	3,302.60	7.28	7.28	-86.01	175.58	-2,517.71	2,523.82	2,509.27	14.56	173.346	
3,400.00	3,400.00	3,402.60	3,402.60	7.50	7.51	-86.01	175.58	-2,517.71	2,523.82	2,508.82	15.01	168.154	
3,500.00	3,500.00	3,504.25	3,504.25	7.73	7.74	-86.01	175.58	-2,517.71	2,523.82	2,508.36	15.46	163.229	
3,600.00	3,600.00	3,667.86	3,667.83	7.94	8.08	-145.92	176.58	-2,515.46	2,523.22	2,507.20	16.02	157.484	
3,700.00	3,699.96	3,831.39	3,831.20	8.16	8.43	-145.90	179.48	-2,508.96	2,521.54	2,504.99	16.56	152.282	
3,800.00	3,799.86	3,994.76	3,994.15	8.37	8.78	-145.88	184.28	-2,498.21	2,518.79	2,501.71	17.09	147.413	
3,900.00	3,899.68	4,115.76	4,114.62	8.58	9.05	-145.87	188.89	-2,487.87	2,515.54	2,497.99	17.54	143.389	
4,000.00	3,999.37	4,215.74	4,214.14	8.80	9.27	-145.88	192.79	-2,479.14	2,513.58	2,495.61	17.97	139.881	
4,085.15	4,084.13	4,300.88	4,298.89	8.99	9.46	-145.90	196.10	-2,471.70	2,513.06	2,494.72	18.33	137.069 CC	
4,100.00	4,098.90	4,315.73	4,313.67	9.02	9.50	-145.91	196.68	-2,470.40	2,513.08	2,494.68	18.40	136.594	
4,172.70	4,171.16	4,388.42	4,386.02	9.19	9.66	-145.93	199.52	-2,464.05	2,513.61	2,494.90	18.71	134.333	
4,200.00	4,198.27	4,415.71	4,413.19	9.25	9.72	-145.94	200.58	-2,461.66	2,513.96	2,495.13	18.83	133.508	
4,300.00	4,297.58	4,515.68	4,512.70	9.48	9.95	-145.99	204.48	-2,452.93	2,515.23	2,495.96	19.26	130.560	
4,400.00	4,396.89	4,615.65	4,612.21	9.71	10.18	-146.04	208.37	-2,444.19	2,516.50	2,496.79	19.70	127.723	
4,500.00	4,496.20	4,715.62	4,711.73	9.95	10.42	-146.09	212.27	-2,435.46	2,517.77	2,497.62	20.14	124.993	
4,600.00	4,595.51	4,815.59	4,811.24	10.19	10.65	-146.13	216.17	-2,426.72	2,519.04	2,498.45	20.59	122.365	
4,700.00	4,694.83	4,915.57	4,910.75	10.43	10.89	-146.18	220.06	-2,417.98	2,520.32	2,499.28	21.03	119.834	
4,800.00	4,794.14	5,015.54	5,010.26	10.67	11.13	-146.23	223.96	-2,409.25	2,521.59	2,500.11	21.48	117.396	
4,900.00	4,893.45	5,115.51	5,109.77	10.92	11.37	-146.27	227.86	-2,400.51	2,522.87	2,500.94	21.93	115.047	

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

LEAM Drilling Systems LLC

Anticollision Report

Company: Devon Energy
 Project: Lea County, NM (NAD-83)
 Reference Site: Fighting Okra 18-19 Fed
 Site Error: 0.00 usft
 Reference Well: 85H
 Well Error: 0.00 usft
 Reference Wellbore: OH
 Reference Design: Plan #1

Local Co-ordinate Reference: Well 85H
 TVD Reference: 3369.1' GE + 25' KB @ 3394.10usft
 MD Reference: 3369.1' GE + 25' KB @ 3394.10usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Output errors are at: 2.00 sigma
 Database: EDM 5000.1 Multi User Db
 Offset TVD Reference: Offset Datum

Offset Design: Fighting Okra 18-19 Fed - 7H - OH - Plan #1													Offset Site Error: 0.00 usft
Survey Program: 0-LEAM MWD+HDGM													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,992.76	5,215.48	5,209.29	11.17	11.61	-146.32	231.75	-2,391.78	2,524.15	2,501.77	22.38	112.783	
5,100.00	5,092.07	5,315.45	5,308.80	11.42	11.85	-146.37	235.65	-2,383.04	2,525.43	2,502.60	22.83	110.600	
5,200.00	5,191.38	5,415.42	5,408.31	11.67	12.10	-146.41	239.55	-2,374.30	2,526.71	2,503.43	23.29	108.494	
5,300.00	5,290.69	5,515.39	5,507.82	11.93	12.34	-146.46	243.44	-2,365.57	2,528.00	2,504.25	23.75	106.462	
5,400.00	5,390.01	5,615.36	5,607.33	12.18	12.59	-146.51	247.34	-2,356.83	2,529.29	2,505.08	24.20	104.500	
5,500.00	5,489.32	5,715.33	5,706.84	12.44	12.84	-146.55	251.24	-2,348.10	2,530.57	2,505.91	24.66	102.605	
5,600.00	5,588.63	5,815.30	5,806.36	12.70	13.08	-146.60	255.13	-2,339.36	2,531.86	2,506.74	25.12	100.775	
5,700.00	5,687.94	5,915.27	5,905.87	12.96	13.33	-146.65	259.03	-2,330.63	2,533.15	2,507.57	25.59	99.005	
5,800.00	5,787.25	6,015.24	6,005.38	13.22	13.58	-146.69	262.93	-2,321.89	2,534.45	2,508.40	26.05	97.294	
5,900.00	5,886.56	6,115.21	6,104.89	13.48	13.83	-146.74	266.82	-2,313.15	2,535.74	2,509.23	26.51	95.639	
6,000.00	5,985.88	6,215.18	6,204.40	13.75	14.08	-146.79	270.72	-2,304.42	2,537.04	2,510.06	26.98	94.038	
6,100.00	6,085.19	6,315.15	6,303.91	14.01	14.34	-146.83	274.62	-2,295.68	2,538.34	2,510.89	27.45	92.488	
6,200.00	6,184.50	6,415.12	6,403.43	14.28	14.59	-146.88	278.51	-2,286.95	2,539.64	2,511.72	27.91	90.986	
6,300.00	6,283.81	6,515.09	6,502.94	14.55	14.84	-146.93	282.41	-2,278.21	2,540.94	2,512.56	28.38	89.531	
6,400.00	6,383.12	6,615.06	6,602.45	14.81	15.10	-146.97	286.31	-2,269.47	2,542.24	2,513.39	28.85	88.121	
6,500.00	6,482.43	6,715.03	6,701.96	15.08	15.35	-147.02	290.20	-2,260.74	2,543.55	2,514.23	29.32	86.754	
6,600.00	6,581.75	6,815.00	6,801.47	15.35	15.61	-147.06	294.10	-2,252.00	2,544.85	2,515.06	29.79	85.428	
6,700.00	6,681.06	6,914.97	6,900.99	15.62	15.86	-147.11	298.00	-2,243.27	2,546.16	2,515.90	30.26	84.142	
6,800.00	6,780.37	7,014.95	7,000.50	15.90	16.12	-147.16	301.89	-2,234.53	2,547.47	2,516.74	30.73	82.893	
6,900.00	6,879.68	7,114.92	7,100.01	16.17	16.37	-147.20	305.79	-2,225.80	2,548.78	2,517.58	31.20	81.680	
7,000.00	6,978.99	7,214.89	7,199.52	16.44	16.63	-147.25	309.69	-2,217.06	2,550.10	2,518.42	31.68	80.502	
7,100.00	7,078.30	7,314.86	7,299.03	16.71	16.89	-147.29	313.58	-2,208.32	2,551.41	2,519.26	32.15	79.358	
7,200.00	7,177.61	7,414.83	7,398.54	16.99	17.15	-147.34	317.48	-2,199.59	2,552.73	2,520.10	32.62	78.245	
7,300.00	7,276.93	7,514.80	7,498.06	17.26	17.41	-147.39	321.38	-2,190.85	2,554.04	2,520.95	33.10	77.164	
7,400.00	7,376.24	7,614.77	7,597.57	17.54	17.66	-147.43	325.27	-2,182.12	2,555.36	2,521.79	33.57	76.111	
7,500.00	7,475.55	7,714.74	7,697.08	17.81	17.92	-147.48	329.17	-2,173.38	2,556.68	2,522.64	34.05	75.088	
7,600.00	7,574.86	7,814.71	7,796.59	18.09	18.18	-147.52	333.07	-2,164.65	2,558.01	2,523.48	34.53	74.091	
7,700.00	7,674.17	7,914.68	7,896.10	18.37	18.44	-147.57	336.96	-2,155.91	2,559.33	2,524.33	35.00	73.121	
7,800.00	7,773.48	8,014.65	7,995.62	18.64	18.70	-147.61	340.86	-2,147.17	2,560.66	2,525.18	35.48	72.176	
7,900.00	7,872.80	8,114.62	8,095.13	18.92	18.96	-147.66	344.76	-2,138.44	2,561.99	2,526.03	35.95	71.256	
8,000.00	7,972.11	8,214.59	8,194.64	19.20	19.22	-147.70	348.65	-2,129.70	2,563.32	2,526.88	36.43	70.359	
8,100.00	8,071.42	8,314.56	8,294.15	19.48	19.48	-147.75	352.55	-2,120.97	2,564.65	2,527.74	36.91	69.485	
8,200.00	8,170.73	8,414.53	8,393.66	19.76	19.75	-147.80	356.45	-2,112.23	2,565.98	2,528.59	37.39	68.632	
8,300.00	8,270.04	8,514.50	8,493.17	20.04	20.01	-147.84	360.34	-2,103.49	2,567.31	2,529.45	37.87	67.801	
8,400.00	8,369.35	8,614.47	8,592.69	20.32	20.27	-147.89	364.24	-2,094.76	2,568.65	2,530.30	38.34	66.990	
8,500.00	8,468.66	8,714.44	8,692.20	20.60	20.53	-147.93	368.14	-2,086.02	2,569.99	2,531.16	38.82	66.198	
8,600.00	8,567.98	8,814.41	8,791.71	20.88	20.79	-147.98	372.03	-2,077.29	2,571.32	2,532.02	39.30	65.425	
8,700.00	8,667.29	8,914.38	8,891.22	21.16	21.06	-148.02	375.93	-2,068.55	2,572.67	2,532.88	39.78	64.671	
8,800.00	8,766.60	9,014.35	8,990.73	21.44	21.32	-148.07	379.83	-2,059.82	2,574.01	2,533.75	40.26	63.934	
8,900.00	8,865.91	9,114.33	9,090.25	21.72	21.58	-148.11	383.72	-2,051.08	2,575.35	2,534.61	40.74	63.215	
9,000.00	8,965.22	9,214.30	9,189.76	22.00	21.84	-148.16	387.62	-2,042.34	2,576.70	2,535.48	41.22	62.511	
9,100.00	9,064.53	9,314.27	9,289.27	22.28	22.11	-148.20	391.52	-2,033.61	2,578.04	2,536.34	41.70	61.824	
9,200.00	9,163.85	9,414.24	9,388.78	22.57	22.37	-148.25	395.41	-2,024.87	2,579.39	2,537.21	42.18	61.152	
9,300.00	9,263.16	9,514.21	9,488.29	22.85	22.63	-148.29	399.31	-2,016.14	2,580.74	2,538.08	42.66	60.496	
9,400.00	9,362.47	9,614.18	9,587.80	23.13	22.90	-148.34	403.21	-2,007.40	2,582.09	2,538.95	43.14	59.853	
9,500.00	9,461.78	9,714.15	9,687.32	23.41	23.16	-148.38	407.10	-1,998.66	2,583.45	2,539.83	43.62	59.225	
9,600.00	9,561.09	9,814.12	9,786.83	23.70	23.43	-148.43	411.00	-1,989.93	2,584.80	2,540.70	44.10	58.610	
9,700.00	9,660.40	9,914.09	9,886.34	23.98	23.69	-148.47	414.90	-1,981.19	2,586.16	2,541.57	44.58	58.008	
9,800.00	9,759.71	10,014.06	9,985.85	24.26	23.96	-148.52	418.79	-1,972.46	2,587.52	2,542.45	45.06	57.419	
9,900.00	9,859.03	10,114.03	10,085.36	24.55	24.22	-148.56	422.69	-1,963.72	2,588.88	2,543.33	45.55	56.842	
10,000.00	9,958.34	10,214.00	10,184.88	24.83	24.48	-148.60	426.59	-1,954.99	2,590.24	2,544.21	46.03	56.277	
10,100.00	10,057.65	10,313.97	10,284.39	25.11	24.75	-148.65	430.48	-1,946.25	2,591.60	2,545.09	46.51	55.724	

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

LEAM Drilling Systems LLC

Anticollision Report

Company: Devon Energy
Project: Lea County, NM (NAD-83)
Reference Site: Fighting Okra 18-19 Fed
Site Error: 0.00 usft
Reference Well: 85H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Plan #1

Local Co-ordinate Reference: Well 85H
TVD Reference: 3369.1' GE + 25' KB @ 3394.10usft
MD Reference: 3369.1' GE + 25' KB @ 3394.10usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDM 5000.1 Multi User Db
Offset TVD Reference: Offset Datum

Offset Design Fighting Okra 18-19 Fed - 7H - OH - Plan #1													Offset Site Error: 0.00 usft
Survey Program: O-LEAM MWD+HDGM													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N-S (usft)	+E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
10,200.00	10,156.96	10,413.94	10,383.90	25.40	25.01	-148.69	434.38	-1,937.51	2,592.96	2,545.97	46.99	55.182	
10,300.00	10,256.27	10,513.91	10,483.41	25.68	25.28	-148.74	438.28	-1,928.78	2,594.33	2,546.86	47.47	54.651	
10,400.00	10,355.58	10,613.88	10,582.92	25.97	25.54	-148.78	442.17	-1,920.04	2,595.70	2,547.74	47.95	54.131	
10,500.00	10,454.90	10,700.00	10,668.65	26.25	25.77	-148.82	445.52	-1,912.54	2,597.12	2,548.72	48.40	53.655	
10,600.00	10,554.21	10,775.75	10,744.11	26.54	25.92	-148.86	448.18	-1,906.58	2,599.39	2,550.59	48.80	53.264	
10,700.00	10,653.52	10,846.54	10,814.71	26.82	26.06	-148.91	450.30	-1,901.83	2,602.79	2,553.60	49.19	52.917	
10,800.00	10,752.83	10,917.24	10,885.28	27.11	26.20	-148.96	452.06	-1,897.89	2,607.31	2,557.74	49.57	52.603	
10,900.00	10,852.14	11,000.00	10,967.95	27.39	26.35	-149.03	453.66	-1,894.28	2,612.99	2,563.03	49.96	52.301	
11,000.00	10,951.45	11,058.30	11,026.21	27.68	26.46	-149.09	454.51	-1,892.40	2,619.71	2,569.40	50.30	52.078	
11,100.00	11,050.77	11,128.61	11,096.50	27.96	26.58	-149.17	455.20	-1,890.84	2,627.59	2,576.92	50.66	51.863	
11,178.62	11,128.84	11,183.78	11,151.66	28.19	26.67	-149.23	455.50	-1,890.18	2,634.57	2,583.62	50.94	51.717	
11,200.00	11,150.08	11,200.00	11,167.88	28.24	26.70	-149.26	455.54	-1,890.07	2,636.55	2,585.54	51.02	51.682	
11,300.00	11,249.53	11,284.25	11,252.13	28.46	26.85	-149.41	455.58	-1,889.99	2,645.45	2,594.09	51.36	51.510	
11,400.00	11,349.15	11,383.86	11,351.75	28.66	27.05	-149.54	455.58	-1,889.99	2,652.98	2,601.23	51.75	51.262	
11,500.00	11,448.90	11,483.62	11,451.50	28.86	27.25	-149.65	455.58	-1,889.99	2,659.02	2,606.87	52.15	50.990	
11,600.00	11,548.76	11,583.48	11,551.36	29.05	27.45	-149.73	455.58	-1,889.99	2,663.56	2,611.02	52.54	50.697	
11,700.00	11,648.70	11,683.41	11,651.30	29.22	27.65	-149.78	455.58	-1,889.99	2,666.60	2,613.67	52.93	50.383	
11,800.00	11,748.68	11,783.40	11,751.28	29.39	27.85	-149.81	455.58	-1,889.99	2,668.13	2,614.81	53.31	50.048	
11,851.32	11,800.00	11,834.72	11,802.60	29.47	27.95	-89.90	455.58	-1,889.99	2,668.32	2,614.82	53.51	49.868	
11,900.00	11,848.68	11,883.40	11,851.28	29.56	28.05	-89.90	455.58	-1,889.99	2,668.32	2,614.62	53.70	49.687	
12,000.00	11,948.68	11,983.40	11,951.28	29.75	28.25	-89.90	455.58	-1,889.99	2,668.32	2,614.20	54.12	49.304	
12,100.00	12,048.68	12,083.40	12,051.28	29.94	28.46	-89.90	455.58	-1,889.99	2,668.32	2,613.79	54.54	48.927	
12,200.00	12,148.68	12,183.40	12,151.28	30.14	28.66	-89.90	455.58	-1,889.99	2,668.32	2,613.37	54.95	48.555	
12,300.00	12,248.68	12,283.40	12,251.28	30.33	28.86	-89.90	455.58	-1,889.99	2,668.32	2,612.95	55.37	48.188	
12,392.36	12,341.04	12,375.98	12,343.85	30.51	29.04	-89.92	454.64	-1,889.99	2,668.32	2,612.58	55.75	47.866	
12,400.00	12,348.68	12,383.66	12,351.51	30.52	29.05	90.07	454.15	-1,889.99	2,668.32	2,612.55	55.77	47.844	
12,450.00	12,398.58	12,433.73	12,401.24	30.59	29.12	90.01	448.44	-1,889.99	2,668.32	2,612.40	55.92	47.717	
12,455.87	12,404.42	12,439.59	12,407.02	30.60	29.13	90.00	447.48	-1,889.99	2,668.32	2,612.39	55.93	47.704	
12,500.00	12,448.05	12,483.55	12,450.03	30.65	29.19	89.95	438.47	-1,889.99	2,668.32	2,612.28	56.04	47.613	
12,550.00	12,496.70	12,533.13	12,497.55	30.70	29.24	89.88	424.37	-1,889.99	2,668.33	2,612.19	56.14	47.531	
12,600.00	12,544.16	12,582.47	12,543.45	30.73	29.29	89.83	406.33	-1,889.99	2,668.33	2,612.12	56.21	47.468	
12,650.00	12,590.08	12,631.58	12,587.43	30.75	29.33	89.77	384.51	-1,889.99	2,668.34	2,612.07	56.27	47.421	
12,700.00	12,634.11	12,680.47	12,629.20	30.76	29.36	89.71	359.13	-1,889.99	2,668.35	2,612.04	56.31	47.387	
12,750.00	12,675.90	12,729.14	12,668.49	30.75	29.39	89.66	330.41	-1,889.99	2,668.37	2,612.03	56.34	47.361	
12,800.00	12,715.15	12,777.62	12,705.05	30.74	29.42	89.60	298.60	-1,889.99	2,668.38	2,612.02	56.37	47.338	
12,850.00	12,751.55	12,825.92	12,738.67	30.73	29.44	89.56	263.95	-1,889.99	2,668.40	2,612.00	56.40	47.316	
12,900.00	12,784.82	12,874.04	12,769.16	30.70	29.46	89.51	226.73	-1,889.99	2,668.42	2,611.99	56.43	47.288	
12,950.00	12,814.72	12,922.01	12,796.33	30.68	29.48	89.47	187.21	-1,889.99	2,668.44	2,611.96	56.47	47.251	
13,000.00	12,841.01	12,969.84	12,820.03	30.65	29.51	89.43	145.69	-1,889.99	2,668.45	2,611.92	56.53	47.202	
13,050.00	12,863.50	13,017.54	12,840.15	30.62	29.54	89.40	102.46	-1,889.99	2,668.47	2,611.86	56.61	47.135	
13,100.00	12,882.01	13,065.13	12,856.56	30.60	29.59	89.37	57.80	-1,889.99	2,668.48	2,611.77	56.72	47.050	
13,150.00	12,896.40	13,112.62	12,869.19	30.59	29.64	89.34	12.03	-1,889.99	2,668.50	2,611.65	56.85	46.943	
13,200.00	12,906.57	13,160.04	12,877.98	30.59	29.72	89.32	-34.55	-1,889.99	2,668.51	2,611.50	57.00	46.813	
13,250.00	12,912.43	13,207.40	12,882.88	30.61	29.81	89.31	-81.64	-1,889.99	2,668.51	2,611.33	57.19	46.661	
13,292.36	12,914.00	13,247.74	12,884.00	30.63	29.91	89.30	-121.96	-1,889.99	2,668.52	2,611.15	57.37	46.514	
13,300.00	12,914.00	13,255.38	12,884.00	30.64	29.93	89.30	-129.60	-1,889.99	2,668.52	2,611.11	57.41	46.483	
13,400.00	12,914.00	13,355.38	12,884.00	30.78	30.24	89.30	-229.60	-1,889.99	2,668.52	2,610.53	57.99	46.016	
13,500.00	12,914.00	13,455.38	12,884.00	31.01	30.64	89.30	-329.60	-1,889.99	2,668.52	2,609.78	58.74	45.428	
13,600.00	12,914.00	13,555.38	12,884.00	31.35	31.14	89.30	-429.60	-1,889.99	2,668.52	2,608.86	59.66	44.728	
13,700.00	12,914.00	13,655.38	12,884.00	31.78	31.71	89.30	-529.60	-1,889.99	2,668.52	2,607.78	60.74	43.931	
13,800.00	12,914.00	13,755.38	12,884.00	32.29	32.36	89.30	-629.60	-1,889.99	2,668.52	2,606.54	61.98	43.056	
13,900.00	12,914.00	13,855.38	12,884.00	32.89	33.08	89.30	-729.60	-1,889.99	2,668.52	2,605.16	63.36	42.118	

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

LEAM Drilling Systems LLC

Anticollision Report

Company: Devon Energy
Project: Lea County, NM (NAD-83)
Reference Site: Fighting Okra 18-19 Fed
Site Error: 0.00 usft
Reference Well: 85H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Plan #1

Local Co-ordinate Reference: Well 85H
TVD Reference: 3369.1' GE + 25' KB @ 3394.10usft
MD Reference: 3369.1' GE + 25' KB @ 3394.10usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDM 5000.1 Multi User Db
Offset TVD Reference: Offset Datum

Offset Design Fighting Okra 18-19 Fed - 7H - OH - Plan #1													Offset Site Error: 0.00 usft
Survey Program: 0-LEAM MWD-HDGM													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Hightside Toothface (")	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N-S (usft)	+E-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
14,000.00	12,914.00	13,955.38	12,884.00	33.57	33.86	89.30	-829.60	-1,889.99	2,668.52	2,603.65	64.87	41.134	
14,100.00	12,914.00	14,055.38	12,884.00	34.31	34.70	89.30	-929.60	-1,889.99	2,668.52	2,602.00	66.51	40.119	
14,200.00	12,914.00	14,155.38	12,884.00	35.11	35.60	89.30	-1,029.60	-1,889.99	2,668.52	2,600.25	68.27	39.086	
14,300.00	12,914.00	14,255.38	12,884.00	35.97	36.55	89.30	-1,129.60	-1,889.99	2,668.52	2,598.38	70.14	38.045	
14,400.00	12,914.00	14,355.38	12,884.00	36.89	37.55	89.30	-1,229.60	-1,889.99	2,668.52	2,596.41	72.11	37.008	
14,500.00	12,914.00	14,455.38	12,884.00	37.85	38.59	89.30	-1,329.60	-1,889.99	2,668.52	2,594.35	74.17	35.981	
14,600.00	12,914.00	14,555.38	12,884.00	38.86	39.67	89.30	-1,429.60	-1,889.99	2,668.52	2,592.21	76.31	34.970	
14,700.00	12,914.00	14,655.38	12,884.00	39.91	40.78	89.30	-1,529.60	-1,889.99	2,668.52	2,589.99	78.53	33.981	
14,800.00	12,914.00	14,755.38	12,884.00	41.00	41.94	89.30	-1,629.60	-1,889.99	2,668.52	2,587.70	80.82	33.017	
14,900.00	12,914.00	14,855.38	12,884.00	42.12	43.12	89.30	-1,729.60	-1,889.99	2,668.52	2,585.34	83.18	32.082	
15,000.00	12,914.00	14,955.38	12,884.00	43.28	44.33	89.30	-1,829.60	-1,889.99	2,668.52	2,582.92	85.60	31.176	
15,100.00	12,914.00	15,055.38	12,884.00	44.46	45.57	89.30	-1,929.60	-1,889.99	2,668.52	2,580.45	88.07	30.300	
15,200.00	12,914.00	15,155.38	12,884.00	45.68	46.83	89.30	-2,029.60	-1,889.99	2,668.52	2,577.93	90.59	29.457	
15,300.00	12,914.00	15,255.38	12,884.00	46.92	48.11	89.30	-2,129.60	-1,889.99	2,668.52	2,575.36	93.16	28.644	
15,400.00	12,914.00	15,355.38	12,884.00	48.18	49.42	89.30	-2,229.60	-1,889.99	2,668.52	2,572.75	95.77	27.863	
15,500.00	12,914.00	15,455.38	12,884.00	49.46	50.74	89.30	-2,329.60	-1,889.99	2,668.52	2,570.09	98.42	27.112	
15,600.00	12,914.00	15,555.38	12,884.00	50.77	52.08	89.30	-2,429.60	-1,889.99	2,668.52	2,567.41	101.11	26.392	
15,700.00	12,914.00	15,655.38	12,884.00	52.09	53.44	89.30	-2,529.60	-1,889.99	2,668.52	2,564.69	103.83	25.700	
15,800.00	12,914.00	15,755.38	12,884.00	53.43	54.81	89.30	-2,629.60	-1,889.99	2,668.52	2,561.94	106.58	25.037	
15,900.00	12,914.00	15,855.38	12,884.00	54.78	56.20	89.30	-2,729.60	-1,889.99	2,668.52	2,559.16	109.38	24.400	
16,000.00	12,914.00	15,955.38	12,884.00	56.15	57.60	89.30	-2,829.60	-1,889.99	2,668.52	2,556.35	112.17	23.790	
16,100.00	12,914.00	16,055.38	12,884.00	57.54	59.01	89.30	-2,929.60	-1,889.99	2,668.52	2,553.52	115.00	23.204	
16,200.00	12,914.00	16,155.38	12,884.00	58.94	60.43	89.30	-3,029.60	-1,889.99	2,668.52	2,550.66	117.85	22.642	
16,300.00	12,914.00	16,255.38	12,884.00	60.34	61.87	89.30	-3,129.60	-1,889.99	2,668.52	2,547.79	120.73	22.103	
16,400.00	12,914.00	16,355.38	12,884.00	61.76	63.31	89.30	-3,229.60	-1,889.99	2,668.52	2,544.90	123.62	21.586	
16,500.00	12,914.00	16,455.38	12,884.00	63.19	64.76	89.30	-3,329.60	-1,889.99	2,668.52	2,541.98	126.54	21.089	
16,600.00	12,914.00	16,555.38	12,884.00	64.63	66.22	89.30	-3,429.60	-1,889.99	2,668.52	2,539.05	129.47	20.612	
16,700.00	12,914.00	16,655.38	12,884.00	66.08	67.69	89.30	-3,529.60	-1,889.99	2,668.52	2,536.11	132.41	20.153	
16,800.00	12,914.00	16,755.38	12,884.00	67.54	69.17	89.30	-3,629.60	-1,889.99	2,668.52	2,533.15	135.37	19.713	
16,900.00	12,914.00	16,855.38	12,884.00	69.01	70.65	89.30	-3,729.60	-1,889.99	2,668.52	2,530.17	138.35	19.289	
17,000.00	12,914.00	16,955.38	12,884.00	70.48	72.14	89.30	-3,829.60	-1,889.99	2,668.52	2,527.19	141.33	18.881	
17,100.00	12,914.00	17,055.38	12,884.00	71.96	73.64	89.30	-3,929.60	-1,889.99	2,668.52	2,524.19	144.33	18.489	
17,200.00	12,914.00	17,155.38	12,884.00	73.44	75.14	89.30	-4,029.60	-1,889.99	2,668.52	2,521.18	147.34	18.111	
17,300.00	12,914.00	17,255.38	12,884.00	74.94	76.65	89.30	-4,129.60	-1,889.99	2,668.52	2,518.15	150.36	17.747	
17,400.00	12,914.00	17,355.38	12,884.00	76.43	78.16	89.30	-4,229.60	-1,889.99	2,668.52	2,515.12	153.40	17.396	
17,500.00	12,914.00	17,455.38	12,884.00	77.94	79.67	89.30	-4,329.60	-1,889.99	2,668.52	2,512.08	156.44	17.058	
17,600.00	12,914.00	17,555.38	12,884.00	79.45	81.20	89.30	-4,429.60	-1,889.99	2,668.52	2,509.03	159.49	16.732	
17,700.00	12,914.00	17,655.38	12,884.00	80.96	82.72	89.30	-4,529.60	-1,889.99	2,668.52	2,505.97	162.55	16.417	
17,800.00	12,914.00	17,755.38	12,884.00	82.48	84.25	89.30	-4,629.60	-1,889.99	2,668.52	2,502.91	165.61	16.113	
17,900.00	12,914.00	17,855.38	12,884.00	84.00	85.79	89.30	-4,729.60	-1,889.99	2,668.52	2,499.83	168.69	15.819	
18,000.00	12,914.00	17,955.38	12,884.00	85.53	87.32	89.30	-4,829.60	-1,889.99	2,668.52	2,496.75	171.77	15.536	
18,100.00	12,914.00	18,055.38	12,884.00	87.06	88.86	89.30	-4,929.60	-1,889.99	2,668.52	2,493.66	174.86	15.261	
18,200.00	12,914.00	18,155.38	12,884.00	88.59	90.41	89.30	-5,029.60	-1,889.99	2,668.52	2,490.57	177.95	14.996	
18,300.00	12,914.00	18,255.38	12,884.00	90.13	91.95	89.30	-5,129.60	-1,889.99	2,668.52	2,487.47	181.05	14.739	
18,400.00	12,914.00	18,355.38	12,884.00	91.67	93.50	89.30	-5,229.60	-1,889.99	2,668.52	2,484.36	184.16	14.490	
18,500.00	12,914.00	18,455.38	12,884.00	93.21	95.06	89.30	-5,329.60	-1,889.99	2,668.52	2,481.25	187.27	14.249	
18,600.00	12,914.00	18,555.38	12,884.00	94.76	96.61	89.30	-5,429.60	-1,889.99	2,668.52	2,478.13	190.39	14.016	
18,700.00	12,914.00	18,655.38	12,884.00	96.31	98.17	89.30	-5,529.60	-1,889.99	2,668.52	2,475.01	193.51	13.790	
18,800.00	12,914.00	18,755.38	12,884.00	97.86	99.73	89.30	-5,629.60	-1,889.99	2,668.52	2,471.88	196.64	13.571	
18,900.00	12,914.00	18,855.38	12,884.00	99.42	101.29	89.30	-5,729.60	-1,889.99	2,668.52	2,468.75	199.77	13.358	
19,000.00	12,914.00	18,955.38	12,884.00	100.98	102.86	89.30	-5,829.60	-1,889.99	2,668.52	2,465.61	202.91	13.151	
19,100.00	12,914.00	19,055.38	12,884.00	102.54	104.43	89.30	-5,929.60	-1,889.99	2,668.52	2,462.47	206.05	12.951	

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
 Project: Lea County, NM (NAD-83)
 Reference Site: Fighting Okra 18-19 Fed
 Site Error: 0.00 usft
 Reference Well: 85H
 Well Error: 0.00 usft
 Reference Wellbore: OH
 Reference Design: Plan #1

Local Co-ordinate Reference: Well 85H
 TVD Reference: 3369.1' GE + 25' KB @ 3394.10usft
 MD Reference: 3369.1' GE + 25' KB @ 3394.10usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Output errors are at 2.00 sigma
 Database: EDM 5000.1 Multi User Db
 Offset TVD Reference: Offset Datum

Offset Design Fighting Okra 18-19 Fed - 7H - OH - Plan #1													Offset Site Error: 0.00 usft
Survey Program: 0-LEAM MWD+HDGM													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Distance							
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
19,200.00	12,914.00	19,155.38	12,884.00	104.10	106.00	89.30	-6,029.60	-1,889.99	2,668.52	2,459.33	209.19	12.756	
19,300.00	12,914.00	19,255.38	12,884.00	105.67	107.57	89.30	-6,129.60	-1,889.99	2,668.52	2,456.18	212.34	12.567	
19,400.00	12,914.00	19,355.38	12,884.00	107.23	109.14	89.30	-6,229.60	-1,889.99	2,668.52	2,453.03	215.49	12.384	
19,500.00	12,914.00	19,455.38	12,884.00	108.80	110.72	89.30	-6,329.60	-1,889.99	2,668.52	2,449.87	218.64	12.205	
19,600.00	12,914.00	19,555.38	12,884.00	110.37	112.29	89.30	-6,429.60	-1,889.99	2,668.52	2,446.72	221.80	12.031	
19,700.00	12,914.00	19,655.38	12,884.00	111.94	113.87	89.30	-6,529.60	-1,889.99	2,668.52	2,443.56	224.96	11.862	
19,800.00	12,914.00	19,755.38	12,884.00	113.52	115.45	89.30	-6,629.60	-1,889.99	2,668.52	2,440.39	228.13	11.697	
19,900.00	12,914.00	19,855.38	12,884.00	115.09	117.03	89.30	-6,729.60	-1,889.99	2,668.52	2,437.22	231.30	11.537	
20,000.00	12,914.00	19,955.38	12,884.00	116.67	118.61	89.30	-6,829.60	-1,889.99	2,668.52	2,434.05	234.47	11.381	
20,100.00	12,914.00	20,055.38	12,884.00	118.25	120.20	89.30	-6,929.60	-1,889.99	2,668.52	2,430.88	237.64	11.229	
20,200.00	12,914.00	20,155.38	12,884.00	119.83	121.78	89.30	-7,029.60	-1,889.99	2,668.52	2,427.71	240.81	11.081	
20,300.00	12,914.00	20,255.38	12,884.00	121.41	123.37	89.30	-7,129.60	-1,889.99	2,668.52	2,424.53	243.99	10.937	
20,400.00	12,914.00	20,355.38	12,884.00	123.00	124.96	89.30	-7,229.60	-1,889.99	2,668.52	2,421.35	247.17	10.796	
20,500.00	12,914.00	20,455.38	12,884.00	124.58	126.55	89.30	-7,329.60	-1,889.99	2,668.52	2,418.17	250.35	10.659	
20,600.00	12,914.00	20,555.38	12,884.00	126.17	128.14	89.30	-7,429.60	-1,889.99	2,668.52	2,414.98	253.54	10.525	
20,700.00	12,914.00	20,655.38	12,884.00	127.75	129.73	89.30	-7,529.60	-1,889.99	2,668.52	2,411.79	256.72	10.394	
20,800.00	12,914.00	20,755.38	12,884.00	129.34	131.32	89.30	-7,629.60	-1,889.99	2,668.52	2,408.61	259.91	10.267	
20,900.00	12,914.00	20,855.38	12,884.00	130.93	132.91	89.30	-7,729.60	-1,889.99	2,668.52	2,405.42	263.10	10.142	
21,000.00	12,914.00	20,955.38	12,884.00	132.52	134.51	89.30	-7,829.60	-1,889.99	2,668.52	2,402.22	266.30	10.021	
21,100.00	12,914.00	21,055.38	12,884.00	134.11	136.10	89.30	-7,929.60	-1,889.99	2,668.52	2,399.03	269.49	9.902	
21,200.00	12,914.00	21,155.38	12,884.00	135.71	137.70	89.30	-8,029.60	-1,889.99	2,668.52	2,395.83	272.69	9.786	
21,300.00	12,914.00	21,255.38	12,884.00	137.30	139.30	89.30	-8,129.60	-1,889.99	2,668.52	2,392.63	275.89	9.673	
21,400.00	12,914.00	21,355.38	12,884.00	138.90	140.90	89.30	-8,229.60	-1,889.99	2,668.52	2,389.43	279.08	9.562	
21,500.00	12,914.00	21,455.38	12,884.00	140.49	142.49	89.30	-8,329.60	-1,889.99	2,668.52	2,386.23	282.29	9.453	
21,600.00	12,914.00	21,555.38	12,884.00	142.09	144.09	89.30	-8,429.60	-1,889.99	2,668.52	2,383.03	285.49	9.347	
21,700.00	12,914.00	21,655.38	12,884.00	143.68	145.69	89.30	-8,529.60	-1,889.99	2,668.52	2,379.83	288.69	9.243	
21,800.00	12,914.00	21,755.38	12,884.00	145.28	147.30	89.30	-8,629.60	-1,889.99	2,668.52	2,376.62	291.90	9.142	
21,900.00	12,914.00	21,855.38	12,884.00	146.88	148.90	89.30	-8,729.60	-1,889.99	2,668.52	2,373.41	295.10	9.043	
22,000.00	12,914.00	21,955.38	12,884.00	148.48	150.50	89.30	-8,829.60	-1,889.99	2,668.52	2,370.21	298.31	8.945	
22,100.00	12,914.00	22,055.38	12,884.00	150.08	152.10	89.30	-8,929.60	-1,889.99	2,668.52	2,367.00	301.52	8.850	
22,200.00	12,914.00	22,155.38	12,884.00	151.68	153.71	89.30	-9,029.60	-1,889.99	2,668.52	2,363.79	304.73	8.757	
22,300.00	12,914.00	22,255.38	12,884.00	153.28	155.31	89.30	-9,129.60	-1,889.99	2,668.52	2,360.57	307.94	8.666	
22,400.00	12,914.00	22,355.38	12,884.00	154.89	156.92	89.30	-9,229.60	-1,889.99	2,668.52	2,357.36	311.16	8.576	
22,500.00	12,914.00	22,455.38	12,884.00	156.49	158.52	89.30	-9,329.60	-1,889.99	2,668.52	2,354.15	314.37	8.488	
22,600.00	12,914.00	22,555.38	12,884.00	158.09	160.13	89.30	-9,429.60	-1,889.99	2,668.52	2,350.93	317.59	8.402	
22,700.00	12,914.00	22,655.38	12,884.00	159.70	161.74	89.30	-9,529.60	-1,889.99	2,668.52	2,347.71	320.80	8.318	
22,800.00	12,914.00	22,755.38	12,884.00	161.30	163.34	89.30	-9,629.60	-1,889.99	2,668.52	2,344.50	324.02	8.236	
22,867.23	12,914.00	22,822.61	12,884.00	162.38	164.42	89.30	-9,696.83	-1,889.99	2,668.52	2,342.33	326.19	8.181 ES, 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
Project: Lea County, NM (NAD-83)
Reference Site: Fighting Okra 18-19 Fed
Site Error: 0.00 usft
Reference Well: 85H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Plan #1

Local Co-ordinate Reference: Well 85H
TVD Reference: 3369.1' GE + 25' KB @ 3394.10usft
MD Reference: 3369.1' GE + 25' KB @ 3394.10usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDM 5000.1 Multi User Db
Offset TVD Reference: Offset Datum

Offset Design Fighting Okra 18-19 Fed - 84H - OH - Plan #1													Offset Site Error: 0.00 usft
Survey Program: 0-LEAM MWD+HDGM													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	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	0.40	0.40	0.00	0.00	90.00	0.00	29.99	29.99				
100.00	100.00	100.40	100.40	0.08	0.09	90.00	0.00	29.99	29.99	29.82	0.17	176.959	
200.00	200.00	200.40	200.40	0.31	0.31	90.00	0.00	29.99	29.99	29.37	0.62	48.449	
300.00	300.00	300.40	300.40	0.53	0.53	90.00	0.00	29.99	29.99	28.92	1.07	28.066	
400.00	400.00	400.40	400.40	0.76	0.76	90.00	0.00	29.99	29.99	28.47	1.52	19.755	
500.00	500.00	500.40	500.40	0.98	0.98	90.00	0.00	29.99	29.99	28.02	1.97	15.242	
600.00	600.00	600.40	600.40	1.21	1.21	90.00	0.00	29.99	29.99	27.57	2.42	12.407	
700.00	700.00	700.40	700.40	1.43	1.43	90.00	0.00	29.99	29.99	27.12	2.87	10.462	
800.00	800.00	800.40	800.40	1.66	1.66	90.00	0.00	29.99	29.99	26.67	3.32	9.043	
900.00	900.00	900.40	900.40	1.88	1.88	90.00	0.00	29.99	29.99	26.22	3.77	7.964	
1,000.00	1,000.00	1,000.40	1,000.40	2.11	2.11	90.00	0.00	29.99	29.99	25.77	4.22	7.115	
1,100.00	1,100.00	1,100.40	1,100.40	2.33	2.33	90.00	0.00	29.99	29.99	25.33	4.66	6.429	
1,200.00	1,200.00	1,200.40	1,200.40	2.56	2.56	90.00	0.00	29.99	29.99	24.88	5.11	5.864	
1,300.00	1,300.00	1,300.40	1,300.40	2.78	2.78	90.00	0.00	29.99	29.99	24.43	5.56	5.390	
1,400.00	1,400.00	1,400.40	1,400.40	3.01	3.01	90.00	0.00	29.99	29.99	23.98	6.01	4.987	
1,500.00	1,500.00	1,500.40	1,500.40	3.23	3.23	90.00	0.00	29.99	29.99	23.53	6.46	4.640	
1,600.00	1,600.00	1,600.40	1,600.40	3.46	3.46	90.00	0.00	29.99	29.99	23.08	6.91	4.339	
1,700.00	1,700.00	1,700.40	1,700.40	3.68	3.68	90.00	0.00	29.99	29.99	22.63	7.36	4.074	
1,800.00	1,800.00	1,800.40	1,800.40	3.91	3.91	90.00	0.00	29.99	29.99	22.18	7.81	3.839	
1,900.00	1,900.00	1,900.40	1,900.40	4.13	4.13	90.00	0.00	29.99	29.99	21.73	8.26	3.630	
2,000.00	2,000.00	2,000.40	2,000.40	4.35	4.36	90.00	0.00	29.99	29.99	21.28	8.71	3.443	
2,100.00	2,100.00	2,100.40	2,100.40	4.58	4.58	90.00	0.00	29.99	29.99	20.83	9.16	3.274	
2,200.00	2,200.00	2,200.40	2,200.40	4.80	4.81	90.00	0.00	29.99	29.99	20.38	9.61	3.121	
2,300.00	2,300.00	2,300.40	2,300.40	5.03	5.03	90.00	0.00	29.99	29.99	19.93	10.06	2.981	
2,400.00	2,400.00	2,400.40	2,400.40	5.25	5.25	90.00	0.00	29.99	29.99	19.48	10.51	2.854	
2,416.53	2,416.53	2,416.93	2,416.93	5.29	5.29	90.00	0.00	29.99	29.99	19.41	10.58	2.834 CC	
2,500.00	2,500.00	2,500.40	2,500.40	5.48	5.48	90.00	0.00	29.99	29.99	19.03	10.96	2.737 ES	
2,600.00	2,600.00	2,600.00	2,599.99	5.70	5.69	89.39	0.33	30.80	30.80	19.41	11.40	2.703	
2,700.00	2,700.00	2,699.35	2,699.31	5.93	5.90	87.77	1.29	33.21	33.25	21.43	11.82	2.812	
2,800.00	2,800.00	2,798.68	2,798.54	6.15	6.11	85.54	2.90	37.21	37.37	25.12	12.25	3.051	
2,900.00	2,900.00	2,897.82	2,897.50	6.38	6.32	83.14	5.15	42.80	43.20	30.54	12.67	3.410	
3,000.00	3,000.00	2,996.73	2,996.11	6.60	6.54	80.87	8.03	49.95	50.78	37.69	13.09	3.880	
3,100.00	3,100.00	3,095.93	3,094.89	6.83	6.76	78.92	11.45	58.45	59.81	46.30	13.51	4.427	
3,200.00	3,200.00	3,195.49	3,194.01	7.05	6.98	77.46	14.93	67.11	69.05	55.10	13.95	4.950	
3,300.00	3,300.00	3,295.05	3,293.13	7.28	7.21	76.34	18.42	75.78	78.32	63.93	14.39	5.444	
3,400.00	3,400.00	3,394.61	3,392.25	7.50	7.44	75.46	21.90	84.44	87.61	72.79	14.82	5.910	
3,500.00	3,500.00	3,494.17	3,491.37	7.73	7.67	74.75	25.39	93.10	96.92	81.66	15.27	6.349	
3,600.00	3,600.00	3,593.81	3,590.57	7.94	7.91	14.35	28.87	101.78	105.41	89.71	15.70	6.714	
3,700.00	3,699.96	3,693.57	3,689.89	8.16	8.15	14.15	32.37	110.46	112.20	96.08	16.13	6.958	
3,800.00	3,799.86	3,793.44	3,789.32	8.37	8.39	14.18	35.86	119.15	117.31	100.76	16.56	7.086	
3,900.00	3,899.68	3,893.38	3,888.82	8.58	8.63	14.41	39.36	127.84	120.73	103.74	16.99	7.107	
4,000.00	3,999.37	3,993.36	3,988.36	8.80	8.87	14.84	42.86	136.55	122.47	105.05	17.42	7.029	
4,100.00	4,098.90	4,093.35	4,087.91	9.02	9.12	15.48	46.36	145.25	122.53	104.67	17.86	6.861	
4,172.70	4,171.16	4,166.03	4,160.27	9.19	9.29	16.09	48.90	151.57	121.53	103.35	18.18	6.686	
4,200.00	4,198.27	4,193.32	4,187.44	9.25	9.36	16.35	49.86	153.95	120.99	102.69	18.30	6.613	
4,300.00	4,297.58	4,293.28	4,286.96	9.48	9.61	17.29	53.36	162.65	119.04	100.30	18.74	6.354	
4,400.00	4,396.89	4,393.24	4,386.48	9.71	9.86	18.27	56.86	171.34	117.12	97.94	19.18	6.107	
4,500.00	4,496.20	4,493.20	4,486.00	9.95	10.11	19.28	60.36	180.04	115.24	95.61	19.62	5.873	
4,600.00	4,595.51	4,593.16	4,585.52	10.19	10.36	20.32	63.85	188.74	113.39	93.32	20.07	5.650	
4,700.00	4,694.83	4,693.13	4,685.04	10.43	10.61	21.40	67.35	197.44	111.58	91.07	20.52	5.438	
4,800.00	4,794.14	4,793.09	4,784.56	10.67	10.86	22.52	70.85	206.14	109.82	88.85	20.97	5.237	
4,900.00	4,893.45	4,893.05	4,884.08	10.92	11.11	23.66	74.35	214.84	108.09	86.67	21.43	5.045	

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

LEAM Drilling Systems LLC

Anticollision Report

Company: Devon Energy
Project: Lea County, NM (NAD-83)
Reference Site: Fighting Okra 18-19 Fed
Site Error: 0.00 usft
Reference Well: 85H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Plan #1

Local Co-ordinate Reference: Well 85H
TVD Reference: 3369.1' GE + 25' KB @ 3394.10usft
MD Reference: 3369.1' GE + 25' KB @ 3394.10usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDM 5000.1 Multi User Db
Offset TVD Reference: Offset Datum

Offset Design Fighting Okra 18-19 Fed - 84H - OH - Plan #1													Offset Site Error: 0.00 usft
Survey Program: 0-LEAM MWD+HDGM													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Distance		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,000.00	4,992.76	4,993.01	4,983.60	11.17	11.37	24.85	77.85	223.54	106.42	84.53	21.88	4.863	
5,100.00	5,092.07	5,092.97	5,083.12	11.42	11.62	26.07	81.35	232.24	104.78	82.44	22.34	4.689	
5,200.00	5,191.38	5,192.93	5,182.64	11.67	11.88	27.33	84.85	240.94	103.20	80.39	22.81	4.524	
5,300.00	5,290.69	5,292.89	5,282.16	11.93	12.13	28.63	88.35	249.64	101.67	78.39	23.28	4.368	
5,400.00	5,390.01	5,392.85	5,381.68	12.18	12.39	29.97	91.85	258.33	100.20	76.44	23.75	4.218	
5,500.00	5,489.32	5,492.82	5,481.20	12.44	12.65	31.35	95.34	267.03	98.77	74.55	24.23	4.077	
5,600.00	5,588.63	5,592.76	5,580.72	12.70	12.90	32.77	98.84	275.73	97.41	72.70	24.71	3.942	
5,700.00	5,687.94	5,692.74	5,680.24	12.96	13.16	34.22	102.34	284.43	96.11	70.92	25.20	3.814	
5,800.00	5,787.25	5,792.70	5,779.76	13.22	13.42	35.72	105.84	293.13	94.88	69.19	25.69	3.693	
5,900.00	5,886.56	5,892.66	5,879.28	13.48	13.68	37.25	109.34	301.83	93.71	67.52	26.19	3.578	
6,000.00	5,985.88	5,992.62	5,978.81	13.75	13.94	38.82	112.84	310.53	92.61	65.91	26.69	3.470	
6,100.00	6,085.19	6,092.58	6,078.33	14.01	14.20	40.43	116.34	319.23	91.58	64.38	27.20	3.367	
6,200.00	6,184.50	6,192.54	6,177.85	14.28	14.46	42.07	119.84	327.93	90.62	62.90	27.72	3.270	
6,300.00	6,283.81	6,292.51	6,277.37	14.55	14.72	43.75	123.34	336.63	89.74	61.50	28.24	3.178	
6,400.00	6,383.12	6,392.47	6,376.89	14.81	14.98	45.46	126.83	345.32	88.94	60.17	28.77	3.092	
6,500.00	6,482.43	6,492.43	6,476.41	15.08	15.24	47.20	130.33	354.02	88.22	58.91	29.30	3.011	
6,600.00	6,581.75	6,592.39	6,575.93	15.35	15.50	48.96	133.83	362.72	87.58	57.73	29.84	2.935	
6,700.00	6,681.06	6,692.35	6,675.45	15.62	15.76	50.75	137.33	371.42	87.02	56.63	30.39	2.863	
6,800.00	6,780.37	6,792.31	6,774.97	15.90	16.02	52.56	140.83	380.12	86.55	55.61	30.95	2.797	
6,900.00	6,879.68	6,892.27	6,874.49	16.17	16.29	54.39	144.33	388.82	86.17	54.67	31.51	2.735	
7,000.00	6,978.99	6,992.24	6,974.01	16.44	16.55	56.23	147.83	397.52	85.88	53.81	32.07	2.678	
7,100.00	7,078.30	7,092.20	7,073.53	16.71	16.81	58.08	151.33	406.22	85.68	53.03	32.64	2.625	
7,200.00	7,177.61	7,192.16	7,173.05	16.99	17.07	59.94	154.83	414.92	85.57	52.34	33.22	2.576	
7,275.04	7,252.14	7,267.17	7,247.74	17.19	17.27	61.34	157.45	421.44	85.54	51.88	33.66	2.542	
7,300.00	7,276.93	7,292.12	7,272.57	17.26	17.34	61.81	158.33	423.61	85.54	51.74	33.80	2.531	
7,400.00	7,376.24	7,392.08	7,372.09	17.54	17.60	63.67	161.82	432.31	85.61	51.22	34.39	2.490	
7,500.00	7,475.55	7,492.04	7,471.61	17.81	17.86	65.53	165.32	441.01	85.77	50.80	34.97	2.452	
7,600.00	7,574.86	7,592.00	7,571.13	18.09	18.12	67.37	168.82	449.71	86.02	50.45	35.56	2.419	
7,700.00	7,674.17	7,691.96	7,670.66	18.37	18.39	69.21	172.32	458.41	86.35	50.20	36.15	2.388	
7,800.00	7,773.48	7,791.93	7,770.18	18.64	18.65	71.03	175.82	467.11	86.78	50.03	36.75	2.362	
7,900.00	7,872.80	7,891.89	7,869.70	18.92	18.92	72.83	179.32	475.81	87.29	49.95	37.34	2.338	
8,000.00	7,972.11	7,991.85	7,969.22	19.20	19.18	74.61	182.82	484.51	87.89	49.95	37.93	2.317	
8,100.00	8,071.42	8,091.81	8,068.74	19.48	19.44	76.36	186.32	493.21	88.57	50.04	38.52	2.299	
8,200.00	8,170.73	8,191.77	8,168.26	19.76	19.71	78.08	189.82	501.91	89.33	50.21	39.12	2.284	
8,300.00	8,270.04	8,291.73	8,267.78	20.04	19.97	79.77	193.31	510.60	90.17	50.46	39.71	2.271	
8,400.00	8,369.35	8,391.69	8,367.30	20.32	20.24	81.43	196.81	519.30	91.09	50.79	40.29	2.261	
8,500.00	8,468.66	8,491.65	8,466.82	20.60	20.50	83.06	200.31	528.00	92.08	51.20	40.88	2.253	
8,600.00	8,567.98	8,591.62	8,566.34	20.88	20.77	84.65	203.81	536.70	93.15	51.69	41.46	2.247	
8,700.00	8,667.29	8,691.58	8,665.86	21.16	21.03	86.20	207.31	545.40	94.28	52.24	42.04	2.243	
8,800.00	8,766.60	8,791.54	8,765.38	21.44	21.30	87.72	210.81	554.10	95.49	52.87	42.61	2.241	
8,900.00	8,865.91	8,891.50	8,864.90	21.72	21.56	89.19	214.31	562.80	96.75	53.57	43.19	2.240	
9,000.00	8,965.22	8,991.46	8,964.42	22.00	21.83	90.63	217.81	571.50	98.09	54.33	43.76	2.242	
9,100.00	9,064.53	9,091.42	9,063.94	22.28	22.09	92.03	221.31	580.20	99.48	55.16	44.32	2.244	
9,200.00	9,163.85	9,191.38	9,163.46	22.57	22.36	93.39	224.80	588.90	100.93	56.04	44.88	2.249	
9,300.00	9,263.16	9,291.34	9,262.98	22.85	22.62	94.70	228.30	597.59	102.43	56.99	45.44	2.254	
9,400.00	9,362.47	9,391.31	9,362.50	23.13	22.89	95.99	231.80	606.29	103.99	57.99	46.00	2.261	
9,500.00	9,461.78	9,491.27	9,462.03	23.41	23.16	97.23	235.30	614.99	105.59	59.04	46.55	2.268	
9,600.00	9,561.09	9,591.23	9,561.55	23.70	23.42	98.43	238.80	623.69	107.25	60.15	47.10	2.277	
9,700.00	9,660.40	9,691.19	9,661.07	23.98	23.69	99.60	242.30	632.39	108.95	61.31	47.64	2.287	
9,800.00	9,759.71	9,791.15	9,760.59	24.26	23.95	100.73	245.80	641.09	110.69	62.51	48.18	2.297	
9,900.00	9,859.03	9,891.11	9,860.11	24.55	24.22	101.82	249.30	649.79	112.48	63.76	48.72	2.309	
10,000.00	9,958.34	9,991.07	9,959.63	24.83	24.49	102.88	252.80	658.49	114.31	65.05	49.26	2.321	

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

LEAM Drilling Systems LLC

Anticollision Report

Company: Devon Energy
Project: Lea County, NM (NAD-83)
Reference Site: Fighting Okra 18-19 Fed
Site Error: 0.00 usft
Reference Well: 85H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Plan #1

Local Co-ordinate Reference: Well 85H
TVD Reference: 3369.1' GE + 25' KB @ 3394.10usft
MD Reference: 3369.1' GE + 25' KB @ 3394.10usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDM 5000.1 Multi User Db
Offset TVD Reference: Offset Datum

Offset Design Fighting Okra 18-19 Fed - 84H - OH - Plan #1													Offset Site Error: 0.00 usft
Survey Program: 0-LEAM MWD+HDGM													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Distance		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N-S (usft)	+E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,100.00	10,057.65	10,091.03	10,059.15	25.11	24.75	103.91	256.30	667.19	116.17	66.38	49.79	2.333	
10,200.00	10,156.96	10,191.00	10,158.67	25.40	25.02	104.91	259.79	675.88	118.07	67.75	50.32	2.346	
10,300.00	10,256.27	10,290.96	10,258.19	25.68	25.29	105.87	263.29	684.58	120.01	69.15	50.85	2.360	
10,400.00	10,355.58	10,390.92	10,357.71	25.97	25.55	106.80	266.79	693.28	121.97	70.59	51.38	2.374	
10,500.00	10,454.90	10,490.88	10,457.23	26.25	25.82	107.70	270.29	701.98	123.97	72.07	51.90	2.388	
10,600.00	10,554.21	10,590.84	10,556.75	26.54	26.08	108.58	273.79	710.68	126.00	73.57	52.43	2.403	
10,700.00	10,653.52	10,690.80	10,656.27	26.82	26.35	109.42	277.29	719.38	128.06	75.11	52.95	2.419	
10,800.00	10,752.83	10,790.76	10,755.79	27.11	26.62	110.24	280.79	728.08	130.14	76.68	53.47	2.434	
10,900.00	10,852.14	10,890.73	10,855.31	27.39	26.88	111.03	284.29	736.78	132.25	78.27	53.98	2.450	
11,000.00	10,951.45	10,990.69	10,954.83	27.68	27.15	111.80	287.79	745.48	134.39	79.89	54.50	2.466	
11,100.00	11,050.77	11,090.65	11,054.35	27.96	27.42	112.54	291.28	754.18	136.54	81.53	55.01	2.482	
11,178.62	11,128.84	11,168.80	11,132.20	28.19	27.58	113.28	293.86	760.58	138.37	83.00	55.36	2.499	
11,200.00	11,150.08	11,190.03	11,153.36	28.24	27.62	113.54	294.49	762.15	138.90	83.45	55.45	2.505	
11,300.00	11,249.53	11,289.29	11,252.38	28.46	27.82	114.74	297.06	768.54	141.28	85.50	55.79	2.533	
11,400.00	11,349.15	11,388.49	11,351.45	28.66	28.00	115.93	298.99	773.33	143.49	87.39	56.10	2.558	
11,500.00	11,448.90	11,487.64	11,450.53	28.86	28.18	117.12	300.27	776.52	145.53	89.13	56.40	2.580	
11,600.00	11,548.76	11,586.73	11,549.61	29.05	28.34	118.30	300.92	778.12	147.39	90.72	56.67	2.601	
11,700.00	11,648.70	11,686.22	11,649.10	29.22	28.51	119.42	301.00	778.33	149.01	92.06	56.95	2.617	
11,800.00	11,748.68	11,786.20	11,749.08	29.39	28.70	120.01	301.00	778.33	149.88	92.62	57.27	2.617	
11,851.32	11,800.00	11,837.52	11,800.40	29.47	28.80	180.00	301.00	778.33	150.00	92.55	57.45	2.611	
11,900.00	11,848.68	11,886.20	11,849.08	29.56	28.90	180.00	301.00	778.33	150.00	92.37	57.63	2.603	
12,000.00	11,948.68	11,986.20	11,949.08	29.75	29.09	180.00	301.00	778.33	150.00	91.98	58.02	2.585	
12,100.00	12,048.68	12,086.20	12,049.08	29.94	29.29	180.00	301.00	778.33	150.00	91.59	58.41	2.568	
12,106.20	12,054.87	12,092.40	12,055.27	29.95	29.30	180.00	301.00	778.33	150.00	91.56	58.44	2.567	
12,200.00	12,148.68	12,178.28	12,141.15	30.14	29.45	180.00	300.21	778.33	151.00	92.30	58.70	2.573	
12,300.00	12,248.68	12,256.26	12,218.50	30.33	29.56	180.00	290.83	778.33	163.06	104.69	58.37	2.794	
12,392.36	12,341.04	12,324.93	12,285.02	30.51	29.64	180.00	273.95	778.33	185.83	128.22	57.60	3.226	
12,400.00	12,348.68	12,330.42	12,290.24	30.52	29.65	0.00	272.26	778.33	188.13	130.61	57.52	3.271	
12,450.00	12,398.58	12,366.12	12,323.78	30.59	29.68	0.00	260.04	778.33	202.54	145.62	56.92	3.558	
12,500.00	12,448.05	12,400.00	12,354.85	30.65	29.71	0.00	246.54	778.33	215.74	159.61	56.13	3.844	
12,550.00	12,496.70	12,436.45	12,387.32	30.70	29.74	0.00	229.99	778.33	227.68	172.23	55.44	4.106	
12,600.00	12,544.16	12,471.17	12,417.21	30.73	29.76	0.00	212.34	778.33	238.33	183.74	54.59	4.366	
12,650.00	12,590.08	12,500.00	12,441.18	30.75	29.77	0.00	196.32	778.33	247.76	194.50	53.26	4.652	
12,700.00	12,634.11	12,539.94	12,473.00	30.76	29.79	0.00	172.19	778.33	255.66	202.96	52.70	4.852	
12,750.00	12,675.90	12,574.07	12,498.79	30.75	29.80	0.00	149.86	778.33	262.29	210.60	51.69	5.074	
12,800.00	12,715.15	12,608.07	12,523.13	30.74	29.82	0.00	126.12	778.33	267.54	216.88	50.66	5.281	
12,850.00	12,751.55	12,650.00	12,551.13	30.73	29.83	0.00	94.92	778.33	271.57	221.39	50.19	5.411	
12,900.00	12,784.82	12,675.80	12,567.20	30.70	29.84	0.00	74.74	778.33	273.85	225.25	48.60	5.635	
12,950.00	12,814.72	12,709.59	12,586.84	30.68	29.85	0.00	47.25	778.33	274.89	227.29	47.60	5.775	
13,000.00	12,841.01	12,750.00	12,608.15	30.65	29.87	0.00	12.93	778.33	274.63	227.57	47.06	5.836	
13,050.00	12,863.50	12,777.20	12,621.11	30.62	29.88	0.00	-10.98	778.33	272.72	226.97	45.75	5.961	
13,100.00	12,882.01	12,811.06	12,635.64	30.60	29.90	0.00	-41.57	778.33	269.52	224.58	44.95	5.996	
13,150.00	12,896.40	12,850.00	12,650.07	30.59	29.93	0.00	-77.72	778.33	264.99	220.51	44.48	5.957	
13,200.00	12,906.57	12,879.07	12,659.23	30.59	29.96	0.00	-105.31	778.33	258.94	215.27	43.66	5.930	
13,250.00	12,912.43	12,913.28	12,668.19	30.61	30.00	0.00	-138.32	778.33	251.58	208.35	43.22	5.820	
13,292.36	12,914.00	12,942.40	12,674.26	30.63	30.04	0.00	-166.79	778.33	244.28	201.31	42.97	5.685	
13,300.00	12,914.00	12,950.00	12,675.61	30.64	30.05	0.00	-174.28	778.33	242.93	199.94	42.99	5.651	
13,400.00	12,914.00	13,017.98	12,683.20	30.78	30.17	0.00	-241.79	778.33	231.52	188.62	42.90	5.397	
13,500.00	12,914.00	13,105.80	12,684.00	31.01	30.39	0.00	-329.60	778.33	230.40	187.11	43.29	5.322	
13,508.35	12,914.00	13,114.15	12,684.00	31.04	30.41	0.00	-337.94	778.33	230.40	187.08	43.32	5.318	
13,600.00	12,914.00	13,205.80	12,684.00	31.35	30.72	0.00	-429.60	778.33	230.40	186.75	43.65	5.278	
13,700.00	12,914.00	13,305.80	12,684.00	31.78	31.15	0.00	-529.60	778.33	230.40	186.35	44.05	5.230	

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

LEAM Drilling Systems LLC

Anticollision Report

Company: Devon Energy
Project: Lea County, NM (NAD-83)
Reference Site: Fighting Okra 18-19 Fed
Site Error: 0.00 usft
Reference Well: 85H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Plan #1

Local Co-ordinate Reference: Well 85H
TVD Reference: 3369.1' GE + 25' KB @ 3394.10usft
MD Reference: 3369.1' GE + 25' KB @ 3394.10usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDM 5000.1 Multi User Db
Offset TVD Reference: Offset Datum

Offset Design Fighting Okra 18-19 Fed - 84H - OH - Plan #1													Offset Site Error: 0.00 usft
Survey Program: 0-LEAM MWD+HDGM													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	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)					
13,800.00	12,914.00	13,405.80	12,684.00	32.29	31.66	0.00	-629.60	778.33	230.40	185.90	44.50	5.178	
13,900.00	12,914.00	13,505.80	12,684.00	32.89	32.24	0.00	-729.60	778.33	230.40	185.41	44.99	5.121	
14,000.00	12,914.00	13,605.80	12,684.00	33.57	32.91	0.00	-829.60	778.33	230.40	184.88	45.52	5.061	
14,100.00	12,914.00	13,705.80	12,684.00	34.31	33.64	0.00	-929.60	778.33	230.40	184.31	46.09	4.999	
14,200.00	12,914.00	13,805.80	12,684.00	35.11	34.43	0.00	-1,029.60	778.33	230.40	183.69	46.71	4.933	
14,300.00	12,914.00	13,905.80	12,684.00	35.97	35.29	0.00	-1,129.60	778.33	230.40	183.05	47.35	4.865	
14,400.00	12,914.00	14,005.80	12,684.00	36.89	36.19	0.00	-1,229.60	778.33	230.40	182.36	48.04	4.796	
14,500.00	12,914.00	14,105.80	12,684.00	37.85	37.15	0.00	-1,329.60	778.33	230.40	181.64	48.76	4.725	
14,600.00	12,914.00	14,205.80	12,684.00	38.86	38.16	0.00	-1,429.60	778.33	230.40	180.89	49.51	4.653	
14,700.00	12,914.00	14,305.80	12,684.00	39.91	39.20	0.00	-1,529.60	778.33	230.40	180.10	50.30	4.581	
14,800.00	12,914.00	14,405.80	12,684.00	41.00	40.29	0.00	-1,629.60	778.33	230.40	179.29	51.11	4.508	
14,900.00	12,914.00	14,505.80	12,684.00	42.12	41.41	0.00	-1,729.60	778.33	230.40	178.44	51.96	4.435	
15,000.00	12,914.00	14,605.80	12,684.00	43.28	42.57	0.00	-1,829.60	778.33	230.40	177.57	52.83	4.361	
15,100.00	12,914.00	14,705.80	12,684.00	44.46	43.75	0.00	-1,929.60	778.33	230.40	176.68	53.72	4.289	
15,200.00	12,914.00	14,805.80	12,684.00	45.68	44.97	0.00	-2,029.60	778.33	230.40	175.76	54.64	4.216	
15,300.00	12,914.00	14,905.80	12,684.00	46.92	46.21	0.00	-2,129.60	778.33	230.40	174.81	55.59	4.145	
15,400.00	12,914.00	15,005.80	12,684.00	48.18	47.47	0.00	-2,229.60	778.33	230.40	173.84	56.56	4.074	
15,500.00	12,914.00	15,105.80	12,684.00	49.46	48.76	0.00	-2,329.60	778.33	230.40	172.86	57.54	4.004	
15,600.00	12,914.00	15,205.80	12,684.00	50.77	50.06	0.00	-2,429.60	778.33	230.40	171.85	58.55	3.935	
15,700.00	12,914.00	15,305.80	12,684.00	52.09	51.39	0.00	-2,529.60	778.33	230.40	170.82	59.58	3.867	
15,800.00	12,914.00	15,405.80	12,684.00	53.43	52.73	0.00	-2,629.60	778.33	230.40	169.77	60.63	3.800	
15,900.00	12,914.00	15,505.80	12,684.00	54.78	54.09	0.00	-2,729.60	778.33	230.40	168.71	61.69	3.735	
16,000.00	12,914.00	15,605.80	12,684.00	56.15	55.46	0.00	-2,829.60	778.33	230.40	167.63	62.77	3.671	
16,100.00	12,914.00	15,705.80	12,684.00	57.54	56.85	0.00	-2,929.60	778.33	230.40	166.54	63.86	3.608	
16,200.00	12,914.00	15,805.80	12,684.00	58.94	58.25	0.00	-3,029.60	778.33	230.40	165.43	64.97	3.546	
16,300.00	12,914.00	15,905.80	12,684.00	60.34	59.66	0.00	-3,129.60	778.33	230.40	164.31	66.09	3.486	
16,400.00	12,914.00	16,005.80	12,684.00	61.76	61.08	0.00	-3,229.60	778.33	230.40	163.17	67.23	3.427	
16,500.00	12,914.00	16,105.80	12,684.00	63.19	62.51	0.00	-3,329.60	778.33	230.40	162.02	68.38	3.369	
16,600.00	12,914.00	16,205.80	12,684.00	64.63	63.96	0.00	-3,429.60	778.33	230.40	160.86	69.54	3.313	
16,700.00	12,914.00	16,305.80	12,684.00	66.08	65.41	0.00	-3,529.60	778.33	230.40	159.69	70.71	3.258	
16,800.00	12,914.00	16,405.80	12,684.00	67.54	66.87	0.00	-3,629.60	778.33	230.40	158.50	71.90	3.205	
16,900.00	12,914.00	16,505.80	12,684.00	69.01	68.34	0.00	-3,729.60	778.33	230.40	157.31	73.09	3.152	
17,000.00	12,914.00	16,605.80	12,684.00	70.48	69.81	0.00	-3,829.60	778.33	230.40	156.11	74.29	3.101	
17,100.00	12,914.00	16,705.80	12,684.00	71.96	71.29	0.00	-3,929.60	778.33	230.40	154.90	75.50	3.051	
17,200.00	12,914.00	16,805.80	12,684.00	73.44	72.78	0.00	-4,029.60	778.33	230.40	153.67	76.73	3.003	
17,300.00	12,914.00	16,905.80	12,684.00	74.94	74.28	0.00	-4,129.60	778.33	230.40	152.44	77.96	2.956	
17,400.00	12,914.00	17,005.80	12,684.00	76.43	75.78	0.00	-4,229.60	778.33	230.40	151.21	79.19	2.909	
17,500.00	12,914.00	17,105.80	12,684.00	77.94	77.29	0.00	-4,329.60	778.33	230.40	149.96	80.44	2.864	
17,600.00	12,914.00	17,205.80	12,684.00	79.45	78.80	0.00	-4,429.60	778.33	230.40	148.71	81.69	2.820	
17,700.00	12,914.00	17,305.80	12,684.00	80.96	80.31	0.00	-4,529.60	778.33	230.40	147.45	82.95	2.777	
17,800.00	12,914.00	17,405.80	12,684.00	82.48	81.83	0.00	-4,629.60	778.33	230.40	146.18	84.22	2.736	
17,900.00	12,914.00	17,505.80	12,684.00	84.00	83.36	0.00	-4,729.60	778.33	230.40	144.91	85.49	2.695	
18,000.00	12,914.00	17,605.80	12,684.00	85.53	84.89	0.00	-4,829.60	778.33	230.40	143.63	86.77	2.655	
18,100.00	12,914.00	17,705.80	12,684.00	87.06	86.42	0.00	-4,929.60	778.33	230.40	142.34	88.06	2.616	
18,200.00	12,914.00	17,805.80	12,684.00	88.59	87.96	0.00	-5,029.60	778.33	230.40	141.05	89.35	2.579	
18,300.00	12,914.00	17,905.80	12,684.00	90.13	89.50	0.00	-5,129.60	778.33	230.40	139.76	90.64	2.542	
18,400.00	12,914.00	18,005.80	12,684.00	91.67	91.04	0.00	-5,229.60	778.33	230.40	138.46	91.94	2.506	
18,500.00	12,914.00	18,105.80	12,684.00	93.21	92.59	0.00	-5,329.60	778.33	230.40	137.15	93.25	2.471	
18,600.00	12,914.00	18,205.80	12,684.00	94.76	94.13	0.00	-5,429.60	778.33	230.40	135.84	94.56	2.437	
18,700.00	12,914.00	18,305.80	12,684.00	96.31	95.69	0.00	-5,529.60	778.33	230.40	134.52	95.88	2.403	
18,800.00	12,914.00	18,405.80	12,684.00	97.86	97.24	0.00	-5,629.60	778.33	230.40	133.20	97.20	2.370	
18,900.00	12,914.00	18,505.80	12,684.00	99.42	98.80	0.00	-5,729.60	778.33	230.40	131.88	98.52	2.339	

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

LEAM Drilling Systems LLC

Anticollision Report

Company: Devon Energy
 Project: Lea County, NM (NAD-83)
 Reference Site: Fighting Okra 18-19 Fed
 Site Error: 0.00 usft
 Reference Well: 85H
 Well Error: 0.00 usft
 Reference Wellbore: OH
 Reference Design: Plan #1

Local Co-ordinate Reference: Well 85H
 TVD Reference: 3369.1' GE + 25' KB @ 3394.10usft
 MD Reference: 3369.1' GE + 25' KB @ 3394.10usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Output errors are at 2.00 sigma
 Database: EDM 5000.1 Multi User Db
 Offset TVD Reference: Offset Datum

Offset Design Fighting Okra 18-19 Fed - 84H - OH - Plan #1													Offset Site Error: 0.00 usft
Survey Program: 0-LEAM MWD+HDGM													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			Minimum Separation (usft)
19,000.00	12,914.00	18,605.80	12,684.00	100.98	100.36	0.00	-5,829.60	778.33	230.40	130.55	99.85	2.307	
19,100.00	12,914.00	18,705.80	12,684.00	102.54	101.92	0.00	-5,929.60	778.33	230.40	129.22	101.18	2.277	
19,200.00	12,914.00	18,805.80	12,684.00	104.10	103.49	0.00	-6,029.60	778.33	230.40	127.88	102.52	2.247	
19,300.00	12,914.00	18,905.80	12,684.00	105.67	105.05	0.00	-6,129.60	778.33	230.40	126.55	103.85	2.218	
19,400.00	12,914.00	19,005.80	12,684.00	107.23	106.62	0.00	-6,229.60	778.33	230.40	125.20	105.20	2.190	
19,500.00	12,914.00	19,105.80	12,684.00	108.80	108.19	0.00	-6,329.60	778.33	230.40	123.86	106.54	2.163	
19,600.00	12,914.00	19,205.80	12,684.00	110.37	109.76	0.00	-6,429.60	778.33	230.40	122.51	107.89	2.135	
19,700.00	12,914.00	19,305.80	12,684.00	111.94	111.34	0.00	-6,529.60	778.33	230.40	121.16	109.24	2.109	
19,800.00	12,914.00	19,405.80	12,684.00	113.52	112.91	0.00	-6,629.60	778.33	230.40	119.80	110.60	2.083	
19,900.00	12,914.00	19,505.80	12,684.00	115.09	114.49	0.00	-6,729.60	778.33	230.40	118.44	111.96	2.058	
20,000.00	12,914.00	19,605.80	12,684.00	116.67	116.07	0.00	-6,829.60	778.33	230.40	117.08	113.32	2.033	
20,100.00	12,914.00	19,705.80	12,684.00	118.25	117.65	0.00	-6,929.60	778.33	230.40	115.72	114.68	2.009	
20,200.00	12,914.00	19,805.80	12,684.00	119.83	119.23	0.00	-7,029.60	778.33	230.40	114.36	116.04	1.985	
20,300.00	12,914.00	19,905.80	12,684.00	121.41	120.82	0.00	-7,129.60	778.33	230.40	112.99	117.41	1.962	
20,400.00	12,914.00	20,005.80	12,684.00	123.00	122.40	0.00	-7,229.60	778.33	230.40	111.62	118.78	1.940	
20,500.00	12,914.00	20,105.80	12,684.00	124.58	123.99	0.00	-7,329.60	778.33	230.40	110.25	120.15	1.918	
20,600.00	12,914.00	20,205.80	12,684.00	126.17	125.57	0.00	-7,429.60	778.33	230.40	108.87	121.53	1.896	
20,700.00	12,914.00	20,305.80	12,684.00	127.75	127.16	0.00	-7,529.60	778.33	230.40	107.49	122.91	1.875	
20,800.00	12,914.00	20,405.80	12,684.00	129.34	128.75	0.00	-7,629.60	778.33	230.40	106.11	124.29	1.854	
20,900.00	12,914.00	20,505.80	12,684.00	130.93	130.34	0.00	-7,729.60	778.33	230.40	104.73	125.67	1.833	
21,000.00	12,914.00	20,605.80	12,684.00	132.52	131.93	0.00	-7,829.60	778.33	230.40	103.35	127.05	1.813	
21,100.00	12,914.00	20,705.80	12,684.00	134.11	133.53	0.00	-7,929.60	778.33	230.40	101.97	128.43	1.794	
21,200.00	12,914.00	20,805.80	12,684.00	135.71	135.12	0.00	-8,029.60	778.33	230.40	100.58	129.82	1.775	
21,300.00	12,914.00	20,905.80	12,684.00	137.30	136.72	0.00	-8,129.60	778.33	230.40	99.19	131.21	1.756	
21,400.00	12,914.00	21,005.80	12,684.00	138.90	138.31	0.00	-8,229.60	778.33	230.40	97.80	132.60	1.738	
21,500.00	12,914.00	21,105.80	12,684.00	140.49	139.91	0.00	-8,329.60	778.33	230.40	96.41	133.99	1.720	
21,600.00	12,914.00	21,205.80	12,684.00	142.09	141.51	0.00	-8,429.60	778.33	230.40	95.02	135.38	1.702	
21,700.00	12,914.00	21,305.80	12,684.00	143.68	143.10	0.00	-8,529.60	778.33	230.40	93.62	136.78	1.684	
21,800.00	12,914.00	21,405.80	12,684.00	145.28	144.70	0.00	-8,629.60	778.33	230.40	92.23	138.17	1.667	
21,900.00	12,914.00	21,505.80	12,684.00	146.88	146.30	0.00	-8,729.60	778.33	230.40	90.83	139.57	1.651	
22,000.00	12,914.00	21,605.80	12,684.00	148.48	147.90	0.00	-8,829.60	778.33	230.40	89.43	140.97	1.634	
22,100.00	12,914.00	21,705.80	12,684.00	150.08	149.50	0.00	-8,929.60	778.33	230.40	88.03	142.37	1.618	
22,200.00	12,914.00	21,805.80	12,684.00	151.68	151.11	0.00	-9,029.60	778.33	230.40	86.63	143.77	1.603	
22,300.00	12,914.00	21,905.80	12,684.00	153.28	152.71	0.00	-9,129.60	778.33	230.40	85.22	145.18	1.587	
22,400.00	12,914.00	22,005.80	12,684.00	154.89	154.31	0.00	-9,229.60	778.33	230.40	83.82	146.58	1.572	
22,500.00	12,914.00	22,105.80	12,684.00	156.49	155.92	0.00	-9,329.60	778.33	230.40	82.41	147.99	1.557	
22,600.00	12,914.00	22,205.80	12,684.00	158.09	157.52	0.00	-9,429.60	778.33	230.40	81.01	149.39	1.542	
22,700.00	12,914.00	22,305.80	12,684.00	159.70	159.13	0.00	-9,529.60	778.33	230.40	79.60	150.80	1.528	
22,800.00	12,914.00	22,405.80	12,684.00	161.30	160.73	0.00	-9,629.60	778.33	230.40	78.19	152.21	1.514	
22,845.34	12,914.00	22,451.14	12,684.00	162.03	161.46	0.00	-9,674.94	778.33	230.40	77.55	152.85	1.507	
22,867.23	12,914.00	22,473.03	12,684.00	162.38	161.81	0.00	-9,696.83	778.33	230.40	77.24	153.16	1.504 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
 Project: Lea County, NM (NAD-83)
 Reference Site: Fighting Okra 18-19 Fed
 Site Error: 0.00 usft
 Reference Well: 85H
 Well Error: 0.00 usft
 Reference Wellbore: OH
 Reference Design: Plan #1

Local Co-ordinate Reference: Well 85H
 TVD Reference: 3369.1' GE + 25' KB @ 3394.10usft
 MD Reference: 3369.1' GE + 25' KB @ 3394.10usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Output errors are at: 2.00 sigma
 Database: EDM 5000.1 Multi User Db
 Offset TVD Reference: Offset Datum

Offset Design Fighting Okra 18-19 Fed - 86H - OH - Plan #1												Offset Site Error:	0.00 usft
Survey Program: 0-LEAM MWD+HDGM												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	0.00	0.00	0.00	0.00	-18.82	75.65	-25.79	79.94				
100.00	100.00	98.60	98.60	0.08	0.08	-18.82	75.65	-25.79	79.93	79.76	0.17	477.466	
200.00	200.00	198.60	198.60	0.31	0.31	-18.82	75.65	-25.79	79.93	79.31	0.61	129.968	
300.00	300.00	298.60	298.60	0.53	0.53	-18.82	75.65	-25.79	79.93	78.86	1.06	75.083	
400.00	400.00	398.60	398.60	0.76	0.76	-18.82	75.65	-25.79	79.93	78.41	1.51	52.790	
500.00	500.00	498.60	498.60	0.98	0.98	-18.82	75.65	-25.79	79.93	77.96	1.96	40.704	
600.00	600.00	598.60	598.60	1.21	1.20	-18.82	75.65	-25.79	79.93	77.51	2.41	33.122	
700.00	700.00	698.60	698.60	1.43	1.43	-18.82	75.65	-25.79	79.93	77.06	2.86	27.920	
800.00	800.00	798.60	798.60	1.66	1.65	-18.82	75.65	-25.79	79.93	76.61	3.31	24.131	
900.00	900.00	898.60	898.60	1.88	1.88	-18.82	75.65	-25.79	79.93	76.16	3.76	21.247	
1,000.00	1,000.00	998.60	998.60	2.11	2.10	-18.82	75.65	-25.79	79.93	75.71	4.21	18.979	
1,100.00	1,100.00	1,098.60	1,098.60	2.33	2.33	-18.82	75.65	-25.79	79.93	75.26	4.66	17.149	
1,200.00	1,200.00	1,198.60	1,198.60	2.56	2.55	-18.82	75.65	-25.79	79.93	74.81	5.11	15.640	
1,300.00	1,300.00	1,298.60	1,298.60	2.78	2.78	-18.82	75.65	-25.79	79.93	74.37	5.56	14.376	
1,400.00	1,400.00	1,398.60	1,398.60	3.01	3.00	-18.82	75.65	-25.79	79.93	73.92	6.01	13.300	
1,500.00	1,500.00	1,498.60	1,498.60	3.23	3.23	-18.82	75.65	-25.79	79.93	73.47	6.46	12.374	
1,600.00	1,600.00	1,598.60	1,598.60	3.46	3.45	-18.82	75.65	-25.79	79.93	73.02	6.91	11.569	
1,700.00	1,700.00	1,698.60	1,698.60	3.68	3.68	-18.82	75.65	-25.79	79.93	72.57	7.36	10.862	
1,800.00	1,800.00	1,798.60	1,798.60	3.91	3.90	-18.82	75.65	-25.79	79.93	72.12	7.81	10.237	
1,900.00	1,900.00	1,898.60	1,898.60	4.13	4.13	-18.82	75.65	-25.79	79.93	71.67	8.26	9.680	
2,000.00	2,000.00	1,998.60	1,998.60	4.35	4.35	-18.82	75.65	-25.79	79.93	71.22	8.71	9.180	
2,100.00	2,100.00	2,098.60	2,098.60	4.58	4.58	-18.82	75.65	-25.79	79.93	70.77	9.16	8.729	
2,200.00	2,200.00	2,198.60	2,198.60	4.80	4.80	-18.82	75.65	-25.79	79.93	70.32	9.61	8.321	
2,300.00	2,300.00	2,298.60	2,298.60	5.03	5.03	-18.82	75.65	-25.79	79.93	69.87	10.06	7.949	
2,400.00	2,400.00	2,398.60	2,398.60	5.25	5.25	-18.82	75.65	-25.79	79.93	69.42	10.50	7.609	
2,500.00	2,500.00	2,498.60	2,498.60	5.48	5.48	-18.82	75.65	-25.79	79.93	68.97	10.95	7.296	
2,600.00	2,600.00	2,598.91	2,598.90	5.70	5.69	-18.23	75.73	-24.94	79.73	68.34	11.39	6.999	
2,700.00	2,700.00	2,699.16	2,699.12	5.93	5.89	-16.39	75.98	-22.34	79.20	67.38	11.82	6.701	
2,800.00	2,800.00	2,799.29	2,799.16	6.15	6.09	-13.27	76.39	-18.01	78.49	66.24	12.25	6.409	
2,900.00	2,900.00	2,899.24	2,898.92	6.38	6.30	-8.82	76.97	-11.95	77.90	65.22	12.68	6.143	
2,961.08	2,961.08	2,960.18	2,959.68	6.52	6.43	-5.46	77.41	-7.40	77.76	64.81	12.95	6.006	
3,000.00	3,000.00	2,998.95	2,998.32	6.60	6.51	-3.08	77.72	-4.18	77.83	64.71	13.12	5.934	
3,100.00	3,100.00	3,098.50	3,097.45	6.83	6.73	3.57	78.59	4.91	78.75	65.19	13.56	5.809	
3,200.00	3,200.00	3,198.07	3,196.59	7.05	6.95	10.05	79.46	14.09	80.73	66.73	14.00	5.767	
3,300.00	3,300.00	3,297.64	3,295.73	7.28	7.17	16.15	80.34	23.27	83.69	69.25	14.44	5.796	
3,400.00	3,400.00	3,397.21	3,394.88	7.50	7.40	21.78	81.22	32.45	87.54	72.66	14.88	5.882	
3,500.00	3,500.00	3,496.78	3,494.02	7.73	7.63	26.89	82.10	41.63	92.16	76.84	15.32	6.014	
3,600.00	3,600.00	3,596.42	3,593.23	7.94	7.86	-28.65	82.98	50.82	96.68	80.93	15.76	6.135	
3,700.00	3,699.96	3,696.17	3,692.55	8.16	8.10	-25.11	83.86	60.01	100.13	83.94	16.19	6.186	
3,800.00	3,799.86	3,796.02	3,791.97	8.37	8.33	-22.18	84.74	69.22	102.31	85.69	16.62	6.156	
3,900.00	3,899.68	3,895.91	3,891.43	8.58	8.57	-19.70	85.62	78.43	103.11	86.05	17.05	6.046	
4,000.00	3,999.37	3,995.83	3,990.93	8.80	8.81	-17.56	86.50	87.64	102.42	84.93	17.49	5.857	
4,100.00	4,098.90	4,095.75	4,090.42	9.02	9.05	-15.67	87.38	96.85	100.20	82.28	17.93	5.590	
4,172.70	4,171.16	4,168.37	4,162.72	9.19	9.23	-14.40	88.02	103.55	97.60	79.36	18.24	5.349	
4,200.00	4,198.27	4,195.64	4,189.87	9.25	9.30	-13.92	88.26	106.06	96.47	78.10	18.36	5.253	
4,300.00	4,297.58	4,295.51	4,289.31	9.48	9.54	-12.09	89.14	115.27	92.38	73.58	18.80	4.913	
4,400.00	4,396.89	4,395.38	4,388.75	9.71	9.79	-10.10	90.02	124.48	88.40	69.16	19.24	4.594	
4,500.00	4,496.20	4,495.25	4,488.20	9.95	10.04	-7.91	90.90	133.69	84.53	64.85	19.68	4.296	
4,600.00	4,595.51	4,595.12	4,587.64	10.19	10.28	-5.53	91.78	142.90	80.79	60.68	20.11	4.018	
4,700.00	4,694.83	4,694.99	4,687.08	10.43	10.53	-2.91	92.67	152.10	77.21	56.67	20.54	3.759	
4,800.00	4,794.14	4,794.86	4,786.52	10.67	10.78	-0.05	93.55	161.31	73.81	52.84	20.97	3.520	
4,900.00	4,893.45	4,894.73	4,885.96	10.92	11.03	3.08	94.43	170.52	70.61	49.21	21.40	3.300	

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

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Reference Design: Plan #1

Local Co-ordinate Reference: Well 85H
TVD Reference: 3369.1' GE + 25' KB @ 3394.10usft
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Survey Program: 0-LEAM MWD-HDGM													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Distance		Minimum Separation		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,000.00	4,992.76	4,994.60	4,985.40	11.17	11.29	6.49	95.31	179.73	67.63	45.81	21.82	3.099	
5,100.00	5,092.07	5,094.47	5,084.85	11.42	11.54	10.20	96.19	188.93	64.92	42.67	22.25	2.918	
5,200.00	5,191.38	5,194.35	5,184.29	11.67	11.79	14.22	97.07	198.14	62.51	39.82	22.69	2.755	
5,300.00	5,290.69	5,294.22	5,283.73	11.93	12.05	18.54	97.95	207.35	60.43	37.30	23.12	2.613	
5,400.00	5,390.01	5,394.09	5,383.17	12.18	12.30	23.13	98.83	216.56	58.71	35.13	23.58	2.490	
5,500.00	5,489.32	5,493.96	5,482.61	12.44	12.56	27.97	99.71	225.77	57.39	33.35	24.04	2.387	
5,600.00	5,588.63	5,593.83	5,582.05	12.70	12.81	33.00	100.59	234.97	56.50	31.97	24.53	2.303	
5,700.00	5,687.94	5,693.70	5,681.50	12.96	13.07	38.14	101.47	244.18	56.06	31.02	25.04	2.239	
5,746.38	5,734.00	5,740.02	5,727.62	13.08	13.19	40.55	101.88	248.45	56.01	30.73	25.28	2.215 CC	
5,800.00	5,787.25	5,793.57	5,780.94	13.22	13.33	43.33	102.35	253.39	56.08	30.51	25.57	2.193	
5,900.00	5,886.56	5,893.44	5,880.38	13.48	13.58	48.47	103.23	262.60	56.55	30.43	26.12	2.165 ES	
6,000.00	5,985.88	5,993.31	5,979.82	13.75	13.84	53.49	104.11	271.81	57.47	30.78	26.70	2.153 SF	
6,100.00	6,085.19	6,093.18	6,079.26	14.01	14.10	58.31	105.00	281.01	58.82	31.54	27.28	2.156	
6,200.00	6,184.50	6,193.06	6,178.70	14.28	14.36	62.88	105.88	290.22	60.56	32.68	27.88	2.172	
6,300.00	6,283.81	6,292.93	6,278.15	14.55	14.62	67.18	106.76	299.43	62.67	34.19	28.48	2.200	
6,400.00	6,383.12	6,392.80	6,377.59	14.81	14.88	71.17	107.64	308.64	65.11	36.02	29.08	2.239	
6,500.00	6,482.43	6,492.67	6,477.03	15.08	15.14	74.86	108.52	317.84	67.84	38.16	29.68	2.285	
6,600.00	6,581.75	6,592.54	6,576.47	15.35	15.40	78.26	109.40	327.05	70.83	40.55	30.28	2.339	
6,700.00	6,681.06	6,692.41	6,675.91	15.62	15.66	81.37	110.28	336.26	74.05	43.18	30.87	2.399	
6,800.00	6,780.37	6,792.28	6,775.35	15.90	15.92	84.21	111.16	345.47	77.47	46.01	31.46	2.463	
6,900.00	6,879.68	6,892.15	6,874.80	16.17	16.18	86.80	112.04	354.68	81.06	49.02	32.03	2.530	
7,000.00	6,978.99	6,992.02	6,974.24	16.44	16.44	89.18	112.92	363.88	84.80	52.19	32.61	2.601	
7,100.00	7,078.30	7,091.89	7,073.68	16.71	16.70	91.35	113.80	373.09	88.68	55.50	33.18	2.673	
7,200.00	7,177.61	7,191.76	7,173.12	16.99	16.96	93.33	114.68	382.30	92.67	58.93	33.74	2.747	
7,300.00	7,276.93	7,291.64	7,272.56	17.26	17.22	95.15	115.56	391.51	96.77	62.47	34.30	2.821	
7,400.00	7,376.24	7,391.51	7,372.00	17.54	17.49	96.82	116.44	400.72	100.95	66.10	34.86	2.896	
7,500.00	7,475.55	7,491.38	7,471.45	17.81	17.75	98.35	117.33	409.92	105.22	69.81	35.41	2.972	
7,600.00	7,574.86	7,591.25	7,570.89	18.09	18.01	99.77	118.21	419.13	109.55	73.59	35.96	3.047	
7,700.00	7,674.17	7,691.12	7,670.33	18.37	18.27	101.08	119.09	428.34	113.94	77.44	36.50	3.121	
7,800.00	7,773.48	7,790.99	7,769.77	18.64	18.54	102.28	119.97	437.55	118.39	81.34	37.05	3.196	
7,900.00	7,872.80	7,890.86	7,869.21	18.92	18.80	103.41	120.85	446.76	122.89	85.30	37.59	3.269	
8,000.00	7,972.11	7,990.73	7,968.65	19.20	19.06	104.45	121.73	455.96	127.43	89.30	38.14	3.342	
8,100.00	8,071.42	8,090.60	8,068.09	19.48	19.33	105.42	122.61	465.17	132.02	93.34	38.68	3.413	
8,200.00	8,170.73	8,190.47	8,167.54	19.76	19.59	106.32	123.49	474.38	136.63	97.42	39.22	3.484	
8,300.00	8,270.04	8,290.34	8,266.98	20.04	19.85	107.17	124.37	483.59	141.28	101.53	39.75	3.554	
8,400.00	8,369.35	8,390.22	8,366.42	20.32	20.12	107.96	125.25	492.79	145.96	105.66	40.29	3.622	
8,500.00	8,468.66	8,490.09	8,465.86	20.60	20.38	108.70	126.13	502.00	150.66	109.83	40.83	3.690	
8,600.00	8,567.98	8,589.96	8,565.30	20.88	20.64	109.40	127.01	511.21	155.39	114.02	41.37	3.756	
8,700.00	8,667.29	8,689.83	8,664.74	21.16	20.91	110.05	127.89	520.42	160.14	118.23	41.90	3.822	
8,800.00	8,766.60	8,789.70	8,764.19	21.44	21.17	110.67	128.77	529.63	164.90	122.46	42.44	3.886	
8,900.00	8,865.91	8,889.57	8,863.63	21.72	21.44	111.25	129.66	538.83	169.69	126.72	42.97	3.949	
9,000.00	8,965.22	8,989.44	8,963.07	22.00	21.70	111.80	130.54	548.04	174.49	130.98	43.51	4.010	
9,100.00	9,064.53	9,089.31	9,062.51	22.28	21.97	112.33	131.42	557.25	179.31	135.27	44.04	4.071	
9,200.00	9,163.85	9,189.18	9,161.95	22.57	22.23	112.82	132.30	566.46	184.14	139.56	44.58	4.131	
9,300.00	9,263.16	9,289.05	9,261.39	22.85	22.50	113.29	133.18	575.67	188.99	143.87	45.11	4.189	
9,400.00	9,362.47	9,388.92	9,360.84	23.13	22.76	113.73	134.06	584.87	193.84	148.20	45.65	4.247	
9,500.00	9,461.78	9,488.80	9,460.28	23.41	23.03	114.16	134.94	594.08	198.71	152.53	46.18	4.303	
9,600.00	9,561.09	9,588.67	9,559.72	23.70	23.29	114.56	135.82	603.29	203.59	156.87	46.72	4.358	
9,700.00	9,660.40	9,688.54	9,659.16	23.98	23.56	114.95	136.70	612.50	208.48	161.23	47.25	4.412	
9,800.00	9,759.71	9,788.41	9,758.60	24.26	23.82	115.31	137.58	621.71	213.37	165.59	47.78	4.465	
9,900.00	9,859.03	9,888.28	9,858.04	24.55	24.09	115.66	138.46	630.91	218.28	169.96	48.32	4.518	
10,000.00	9,958.34	9,988.15	9,957.49	24.83	24.35	116.00	139.34	640.12	223.19	174.34	48.85	4.569	

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10,100.00	10,057.65	10,088.02	10,056.93	25.11	24.62	116.32	140.22	649.33	228.11	178.73	49.39	4.619	
10,200.00	10,156.96	10,187.89	10,156.37	25.40	24.88	116.63	141.10	658.54	233.04	183.12	49.92	4.668	
10,300.00	10,256.27	10,287.76	10,255.81	25.68	25.15	116.92	141.99	667.74	237.97	187.52	50.45	4.717	
10,400.00	10,355.58	10,387.63	10,355.25	25.97	25.42	117.20	142.87	676.95	242.91	191.92	50.99	4.764	
10,500.00	10,454.90	10,487.50	10,454.69	26.25	25.68	117.47	143.75	686.16	247.86	196.33	51.52	4.811	
10,600.00	10,554.21	10,587.38	10,554.14	26.54	25.95	117.73	144.63	695.37	252.81	200.75	52.06	4.856	
10,700.00	10,653.52	10,687.25	10,653.58	26.82	26.21	117.98	145.51	704.58	257.76	205.17	52.59	4.901	
10,800.00	10,752.83	10,787.12	10,753.02	27.11	26.48	118.22	146.39	713.78	262.72	209.60	53.13	4.945	
10,900.00	10,852.14	10,886.99	10,852.46	27.39	26.74	118.46	147.27	722.99	267.69	214.03	53.66	4.989	
11,000.00	10,951.45	10,986.86	10,951.90	27.68	27.01	118.68	148.15	732.20	272.66	218.46	54.20	5.031	
11,100.00	11,050.77	11,086.42	11,051.09	27.96	27.25	118.92	148.97	740.80	277.68	222.98	54.70	5.077	
11,178.62	11,128.84	11,164.58	11,129.05	28.19	27.40	119.51	149.51	746.36	281.73	226.68	55.05	5.118	
11,200.00	11,150.08	11,185.82	11,150.25	28.24	27.44	119.69	149.63	747.69	282.83	227.70	55.13	5.130	
11,300.00	11,249.53	11,285.15	11,249.44	28.46	27.63	120.50	150.13	752.87	287.60	232.11	55.49	5.183	
11,400.00	11,349.15	11,384.43	11,348.65	28.66	27.80	121.32	150.46	756.34	291.71	235.88	55.83	5.225	
11,500.00	11,448.90	11,483.65	11,447.85	28.86	27.97	122.17	150.63	758.09	295.18	239.03	56.14	5.258	
11,600.00	11,548.76	11,583.15	11,547.36	29.05	28.14	122.99	150.65	758.33	297.98	241.52	56.45	5.278	
11,700.00	11,648.70	11,683.09	11,647.30	29.22	28.33	123.57	150.65	758.33	299.91	243.12	56.79	5.281	
11,800.00	11,748.66	11,783.07	11,747.28	29.39	28.52	123.86	150.65	758.33	300.89	243.76	57.13	5.267	
11,851.32	11,800.00	11,834.39	11,798.60	29.47	28.62	-176.19	150.65	758.33	301.02	243.71	57.31	5.252	
11,900.00	11,848.68	11,883.07	11,847.28	29.56	28.71	-176.19	150.65	758.33	301.02	243.53	57.49	5.236	
12,000.00	11,948.68	11,983.07	11,947.28	29.75	28.90	-176.19	150.65	758.33	301.02	243.14	57.88	5.201	
12,000.14	11,948.81	11,983.21	11,947.41	29.75	28.90	-176.19	150.65	758.33	301.02	243.14	57.88	5.201	
12,100.00	12,048.68	12,083.07	12,014.17	29.94	29.03	-176.21	149.02	758.33	304.44	246.51	57.93	5.255	
12,200.00	12,148.68	12,183.07	12,084.38	30.14	29.14	-176.33	139.33	758.33	318.58	260.85	57.74	5.518	
12,300.00	12,248.68	12,283.07	12,143.84	30.33	29.24	-176.50	123.97	758.33	343.58	286.48	57.10	6.017	
12,392.36	12,341.04	12,375.67	12,193.84	30.51	29.33	-176.69	105.56	758.33	375.48	319.19	56.30	6.670	
12,400.00	12,348.68	12,379.92	12,197.75	30.52	29.33	3.28	103.89	758.33	378.43	322.21	56.22	6.731	
12,450.00	12,398.58	12,427.69	12,222.98	30.59	29.38	3.08	92.29	758.33	396.68	340.99	55.69	7.123	
12,500.00	12,448.05	12,500.00	12,251.58	30.65	29.43	2.91	77.27	758.33	413.15	357.87	55.28	7.474	
12,550.00	12,496.70	12,522.96	12,271.37	30.70	29.46	2.79	65.63	758.33	427.68	373.23	54.45	7.854	
12,600.00	12,544.16	12,550.00	12,294.05	30.73	29.50	2.68	50.92	758.33	440.37	386.63	53.74	8.194	
12,650.00	12,590.08	12,577.94	12,316.74	30.75	29.54	2.59	34.61	758.33	451.16	398.13	53.03	8.507	
12,700.00	12,634.11	12,600.00	12,334.07	30.76	29.58	2.53	20.96	758.33	460.08	408.04	52.04	8.840	
12,750.00	12,675.90	12,632.74	12,358.79	30.75	29.63	2.47	-0.49	758.33	466.94	415.47	51.47	9.072	
12,800.00	12,715.15	12,650.00	12,371.32	30.74	29.66	2.44	-12.36	758.33	472.09	421.86	50.24	9.398	
12,850.00	12,751.55	12,687.43	12,397.23	30.73	29.72	2.42	-39.36	758.33	474.88	425.05	49.83	9.529	
12,900.00	12,784.82	12,714.75	12,415.00	30.70	29.77	2.41	-60.12	758.33	475.89	426.89	49.00	9.711	
12,950.00	12,814.72	12,750.00	12,436.43	30.68	29.83	2.42	-88.10	758.33	475.05	426.55	48.50	9.794	
13,000.00	12,841.01	12,769.41	12,447.48	30.65	29.87	2.44	-104.06	758.33	471.99	424.62	47.37	9.964	
13,050.00	12,863.50	12,800.00	12,463.78	30.62	29.93	2.47	-129.93	758.33	467.10	420.39	46.72	9.999	
13,100.00	12,882.01	12,824.14	12,475.66	30.60	29.98	2.52	-150.95	758.33	460.22	414.37	45.84	10.039	
13,150.00	12,896.40	12,850.00	12,487.39	30.59	30.04	2.59	-173.99	758.33	451.41	406.32	45.09	10.011	
13,200.00	12,908.57	12,879.02	12,499.30	30.59	30.11	2.68	-200.45	758.33	440.66	396.16	44.51	9.901	
13,250.00	12,912.43	12,900.00	12,507.07	30.61	30.17	2.77	-219.94	758.33	428.10	384.36	43.74	9.787	
13,292.36	12,914.00	12,929.91	12,516.90	30.63	30.25	2.89	-248.18	758.33	415.83	372.31	43.51	9.556	
13,300.00	12,914.00	12,934.14	12,518.17	30.64	30.26	2.90	-252.22	758.33	413.53	370.09	43.45	9.518	
13,400.00	12,914.00	12,950.00	12,534.07	30.78	30.47	3.02	-316.09	758.33	388.80	345.90	42.90	9.062	
13,500.00	12,914.00	12,850.00	12,541.18	31.01	30.65	3.08	-365.57	758.33	373.69	331.20	42.49	8.794	
13,600.00	12,914.00	12,914.12	12,544.00	31.35	30.90	3.11	-429.60	758.33	369.14	326.35	42.79	8.626	
13,700.00	12,914.00	13,014.12	12,544.00	31.78	31.37	3.11	-529.60	758.33	369.14	326.00	43.14	8.556	
13,800.00	12,914.00	13,114.12	12,544.00	32.29	31.92	3.11	-629.60	758.33	369.14	325.60	43.54	8.478	

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

LEAM Drilling Systems LLC

Anticollision Report

Company: Devon Energy
 Project: Lea County, NM (NAD-83)
 Reference Site: Fighting Okra 18-19 Fed
 Site Error: 0.00 usft
 Reference Well: 85H
 Well Error: 0.00 usft
 Reference Wellbore: OH
 Reference Design: Plan #1

Local Co-ordinate Reference: Well 85H
 TVD Reference: 3369.1' GE + 25' KB @ 3394.10usft
 MD Reference: 3369.1' GE + 25' KB @ 3394.10usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Output errors are at 2.00 sigma
 Database: EDM 5000.1 Multi User Db
 Offset TVD Reference: Offset Datum

Offset Design Fighting Okra 18-19 Fed - 86H - OH - Plan #1													Offset Site Error: 0.00 usft
Survey Program: O-LEAM MWD+HDGM													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		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)				Between Centres (usft)	Between Ellipses (usft)
13,900.00	12,914.00	13,214.12	12,544.00	32.89	32.54	3.11	-729.60	758.33	369.14	325.15	43.99	8.392	
14,000.00	12,914.00	13,314.12	12,544.00	33.57	33.23	3.11	-829.60	758.33	369.14	324.66	44.48	8.299	
14,100.00	12,914.00	13,414.12	12,544.00	34.31	33.98	3.11	-929.60	758.33	369.14	324.13	45.01	8.201	
14,200.00	12,914.00	13,514.12	12,544.00	35.11	34.80	3.11	-1,029.60	758.33	369.14	323.56	45.58	8.098	
14,300.00	12,914.00	13,614.12	12,544.00	35.97	35.67	3.11	-1,129.60	758.33	369.14	322.94	46.20	7.990	
14,400.00	12,914.00	13,714.12	12,544.00	36.89	36.60	3.11	-1,229.60	758.33	369.14	322.29	46.85	7.879	
14,500.00	12,914.00	13,814.12	12,544.00	37.85	37.57	3.11	-1,329.60	758.33	369.14	321.60	47.54	7.765	
14,600.00	12,914.00	13,914.12	12,544.00	38.86	38.59	3.11	-1,429.60	758.33	369.14	320.88	48.27	7.648	
14,700.00	12,914.00	14,014.12	12,544.00	39.91	39.65	3.11	-1,529.60	758.33	369.14	320.12	49.02	7.530	
14,800.00	12,914.00	14,114.12	12,544.00	41.00	40.75	3.11	-1,629.60	758.33	369.14	319.33	49.82	7.410	
14,900.00	12,914.00	14,214.12	12,544.00	42.12	41.88	3.11	-1,729.60	758.33	369.14	318.51	50.64	7.290	
15,000.00	12,914.00	14,314.12	12,544.00	43.28	43.04	3.11	-1,829.60	758.33	369.14	317.65	51.49	7.170	
15,100.00	12,914.00	14,414.12	12,544.00	44.46	44.24	3.11	-1,929.60	758.33	369.14	316.78	52.37	7.049	
15,200.00	12,914.00	14,514.12	12,544.00	45.68	45.46	3.11	-2,029.60	758.33	369.14	315.87	53.27	6.929	
15,300.00	12,914.00	14,614.12	12,544.00	46.92	46.71	3.11	-2,129.60	758.33	369.14	314.94	54.20	6.810	
15,400.00	12,914.00	14,714.12	12,544.00	48.18	47.98	3.11	-2,229.60	758.33	369.14	313.99	55.16	6.693	
15,500.00	12,914.00	14,814.12	12,544.00	49.46	49.27	3.11	-2,329.60	758.33	369.14	313.01	56.13	6.576	
15,600.00	12,914.00	14,914.12	12,544.00	50.77	50.58	3.11	-2,429.60	758.33	369.14	312.01	57.13	6.461	
15,700.00	12,914.00	15,014.12	12,544.00	52.09	51.91	3.11	-2,529.60	758.33	369.14	310.99	58.15	6.348	
15,800.00	12,914.00	15,114.12	12,544.00	53.43	53.26	3.11	-2,629.60	758.33	369.14	309.95	59.19	6.237	
15,900.00	12,914.00	15,214.12	12,544.00	54.78	54.62	3.11	-2,729.60	758.33	369.14	308.90	60.24	6.127	
16,000.00	12,914.00	15,314.12	12,544.00	56.15	56.00	3.11	-2,829.60	758.33	369.14	307.82	61.32	6.020	
16,100.00	12,914.00	15,414.12	12,544.00	57.54	57.39	3.11	-2,929.60	758.33	369.14	306.73	62.41	5.915	
16,200.00	12,914.00	15,514.12	12,544.00	58.94	58.79	3.11	-3,029.60	758.33	369.14	305.63	63.51	5.812	
16,300.00	12,914.00	15,614.12	12,544.00	60.34	60.21	3.11	-3,129.60	758.33	369.14	304.51	64.63	5.711	
16,400.00	12,914.00	15,714.12	12,544.00	61.76	61.63	3.11	-3,229.60	758.33	369.14	303.37	65.77	5.613	
16,500.00	12,914.00	15,814.12	12,544.00	63.19	63.07	3.11	-3,329.60	758.33	369.14	302.23	66.92	5.517	
16,600.00	12,914.00	15,914.12	12,544.00	64.63	64.51	3.11	-3,429.60	758.33	369.14	301.07	68.08	5.422	
16,700.00	12,914.00	16,014.12	12,544.00	66.08	65.97	3.11	-3,529.60	758.33	369.14	299.89	69.25	5.331	
16,800.00	12,914.00	16,114.12	12,544.00	67.54	67.43	3.11	-3,629.60	758.33	369.14	298.71	70.43	5.241	
16,900.00	12,914.00	16,214.12	12,544.00	69.01	68.90	3.11	-3,729.60	758.33	369.14	297.52	71.63	5.154	
17,000.00	12,914.00	16,314.12	12,544.00	70.48	70.38	3.11	-3,829.60	758.33	369.14	296.31	72.83	5.068	
17,100.00	12,914.00	16,414.12	12,544.00	71.96	71.86	3.11	-3,929.60	758.33	369.14	295.10	74.05	4.985	
17,200.00	12,914.00	16,514.12	12,544.00	73.44	73.35	3.11	-4,029.60	758.33	369.14	293.87	75.27	4.904	
17,300.00	12,914.00	16,614.12	12,544.00	74.94	74.85	3.11	-4,129.60	758.33	369.14	292.64	76.50	4.825	
17,400.00	12,914.00	16,714.12	12,544.00	76.43	76.35	3.11	-4,229.60	758.33	369.14	291.40	77.75	4.748	
17,500.00	12,914.00	16,814.12	12,544.00	77.94	77.86	3.11	-4,329.60	758.33	369.14	290.15	78.99	4.673	
17,600.00	12,914.00	16,914.12	12,544.00	79.45	79.37	3.11	-4,429.60	758.33	369.14	288.89	80.25	4.600	
17,700.00	12,914.00	17,014.12	12,544.00	80.96	80.89	3.11	-4,529.60	758.33	369.14	287.63	81.52	4.528	
17,800.00	12,914.00	17,114.12	12,544.00	82.48	82.41	3.11	-4,629.60	758.33	369.14	286.35	82.79	4.459	
17,900.00	12,914.00	17,214.12	12,544.00	84.00	83.94	3.11	-4,729.60	758.33	369.14	285.08	84.07	4.391	
18,000.00	12,914.00	17,314.12	12,544.00	85.53	85.47	3.11	-4,829.60	758.33	369.14	283.79	85.35	4.325	
18,100.00	12,914.00	17,414.12	12,544.00	87.06	87.00	3.11	-4,929.60	758.33	369.14	282.50	86.64	4.261	
18,200.00	12,914.00	17,514.12	12,544.00	88.59	88.54	3.11	-5,029.60	758.33	369.14	281.20	87.94	4.198	
18,300.00	12,914.00	17,614.12	12,544.00	90.13	90.08	3.11	-5,129.60	758.33	369.14	279.90	89.24	4.137	
18,400.00	12,914.00	17,714.12	12,544.00	91.67	91.62	3.11	-5,229.60	758.33	369.14	278.60	90.55	4.077	
18,500.00	12,914.00	17,814.12	12,544.00	93.21	93.17	3.11	-5,329.60	758.33	369.14	277.28	91.86	4.019	
18,600.00	12,914.00	17,914.12	12,544.00	94.76	94.72	3.11	-5,429.60	758.33	369.14	275.97	93.18	3.962	
18,700.00	12,914.00	18,014.12	12,544.00	96.31	96.27	3.11	-5,529.60	758.33	369.14	274.64	94.50	3.906	
18,800.00	12,914.00	18,114.12	12,544.00	97.86	97.83	3.11	-5,629.60	758.33	369.14	273.32	95.82	3.852	
18,900.00	12,914.00	18,214.12	12,544.00	99.42	99.39	3.11	-5,729.60	758.33	369.14	271.99	97.15	3.800	
19,000.00	12,914.00	18,314.12	12,544.00	100.98	100.95	3.11	-5,829.60	758.33	369.14	270.65	98.49	3.748	

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

LEAM Drilling Systems LLC

Anticollision Report

Company: Devon Energy
 Project: Lea County, NM (NAD-83)
 Reference Site: Fighting Okra 18-19 Fed
 Site Error: 0.00 usft
 Reference Well: 85H
 Well Error: 0.00 usft
 Reference Wellbore: OH
 Reference Design: Plan #1

Local Co-ordinate Reference: Well 85H
 TVD Reference: 3369.1' GE + 25' KB @ 3394.10usft
 MD Reference: 3369.1' GE + 25' KB @ 3394.10usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Output errors are at: 2.00 sigma
 Database: EDM 5000.1 Multi User Db
 Offset TVD Reference: Offset Datum

Offset Design Fighting Okra 18-19 Fed - 86H - OH - Plan #1													Offset Site Error: 0.00 usft
Survey Program: O-LEAM MWD+HDGM													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		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)					
19,100.00	12,914.00	18,414.12	12,544.00	102.54	102.51	3.11	-5,929.60	758.33	369.14	269.31	99.83	3.698	
19,200.00	12,914.00	18,514.12	12,544.00	104.10	104.08	3.11	-6,029.60	758.33	369.14	267.97	101.17	3.649	
19,300.00	12,914.00	18,614.12	12,544.00	105.67	105.64	3.11	-6,129.60	758.33	369.14	266.63	102.52	3.601	
19,400.00	12,914.00	18,714.12	12,544.00	107.23	107.21	3.11	-6,229.60	758.33	369.14	265.28	103.87	3.554	
19,500.00	12,914.00	18,814.12	12,544.00	108.80	108.78	3.11	-6,329.60	758.33	369.14	263.92	105.22	3.508	
19,600.00	12,914.00	18,914.12	12,544.00	110.37	110.36	3.11	-6,429.60	758.33	369.14	262.57	106.58	3.464	
19,700.00	12,914.00	19,014.12	12,544.00	111.94	111.93	3.11	-6,529.60	758.33	369.14	261.21	107.94	3.420	
19,800.00	12,914.00	19,114.12	12,544.00	113.52	113.51	3.11	-6,629.60	758.33	369.14	259.84	109.30	3.377	
19,900.00	12,914.00	19,214.12	12,544.00	115.09	115.08	3.11	-6,729.60	758.33	369.14	258.48	110.66	3.336	
20,000.00	12,914.00	19,314.12	12,544.00	116.67	116.66	3.11	-6,829.60	758.33	369.14	257.11	112.03	3.295	
20,100.00	12,914.00	19,414.12	12,544.00	118.25	118.24	3.11	-6,929.60	758.33	369.14	255.74	113.40	3.255	
20,200.00	12,914.00	19,514.12	12,544.00	119.83	119.83	3.11	-7,029.60	758.33	369.14	254.37	114.78	3.216	
20,300.00	12,914.00	19,614.12	12,544.00	121.41	121.41	3.11	-7,129.60	758.33	369.14	252.99	116.15	3.178	
20,400.00	12,914.00	19,714.12	12,544.00	123.00	123.00	3.11	-7,229.60	758.33	369.14	251.61	117.53	3.141	
20,500.00	12,914.00	19,814.12	12,544.00	124.58	124.58	3.11	-7,329.60	758.33	369.14	250.23	118.91	3.104	
20,600.00	12,914.00	19,914.12	12,544.00	126.17	126.17	3.11	-7,429.60	758.33	369.14	248.85	120.29	3.069	
20,700.00	12,914.00	20,014.12	12,544.00	127.75	127.76	3.11	-7,529.60	758.33	369.14	247.46	121.68	3.034	
20,800.00	12,914.00	20,114.12	12,544.00	129.34	129.35	3.11	-7,629.60	758.33	369.14	246.08	123.07	3.000	
20,900.00	12,914.00	20,214.12	12,544.00	130.93	130.94	3.11	-7,729.60	758.33	369.14	244.69	124.45	2.966	
21,000.00	12,914.00	20,314.12	12,544.00	132.52	132.53	3.11	-7,829.60	758.33	369.14	243.30	125.85	2.933	
21,100.00	12,914.00	20,414.12	12,544.00	134.11	134.13	3.11	-7,929.60	758.33	369.14	241.90	127.24	2.901	
21,200.00	12,914.00	20,514.12	12,544.00	135.71	135.72	3.11	-8,029.60	758.33	369.14	240.51	128.63	2.870	
21,300.00	12,914.00	20,614.12	12,544.00	137.30	137.31	3.11	-8,129.60	758.33	369.14	239.11	130.03	2.839	
21,400.00	12,914.00	20,714.12	12,544.00	138.90	138.91	3.11	-8,229.60	758.33	369.14	237.71	131.43	2.809	
21,500.00	12,914.00	20,814.12	12,544.00	140.49	140.51	3.11	-8,329.60	758.33	369.14	236.31	132.83	2.779	
21,600.00	12,914.00	20,914.12	12,544.00	142.09	142.10	3.11	-8,429.60	758.33	369.14	234.91	134.23	2.750	
21,700.00	12,914.00	21,014.12	12,544.00	143.68	143.70	3.11	-8,529.60	758.33	369.14	233.51	135.63	2.722	
21,800.00	12,914.00	21,114.12	12,544.00	145.28	145.30	3.11	-8,629.60	758.33	369.14	232.10	137.04	2.694	
21,900.00	12,914.00	21,214.12	12,544.00	146.88	146.90	3.11	-8,729.60	758.33	369.14	230.70	138.44	2.666	
22,000.00	12,914.00	21,314.12	12,544.00	148.48	148.50	3.11	-8,829.60	758.33	369.14	229.29	139.85	2.640	
22,100.00	12,914.00	21,414.12	12,544.00	150.08	150.10	3.11	-8,929.60	758.33	369.14	227.88	141.26	2.613	
22,200.00	12,914.00	21,514.12	12,544.00	151.68	151.71	3.11	-9,029.60	758.33	369.14	226.47	142.67	2.587	
22,300.00	12,914.00	21,614.12	12,544.00	153.28	153.31	3.11	-9,129.60	758.33	369.14	225.06	144.08	2.562	
22,400.00	12,914.00	21,714.12	12,544.00	154.89	154.91	3.11	-9,229.60	758.33	369.14	223.65	145.49	2.537	
22,500.00	12,914.00	21,814.12	12,544.00	156.49	156.52	3.11	-9,329.60	758.33	369.14	222.23	146.91	2.513	
22,600.00	12,914.00	21,914.12	12,544.00	158.09	158.12	3.11	-9,429.60	758.33	369.14	220.82	148.32	2.489	
22,700.00	12,914.00	22,014.12	12,544.00	159.70	159.73	3.11	-9,529.60	758.33	369.14	219.40	149.74	2.465	
22,800.00	12,914.00	22,114.12	12,544.00	161.30	161.33	3.11	-9,629.60	758.33	369.14	217.98	151.16	2.442	
22,867.23	12,914.00	22,181.36	12,544.00	162.38	162.41	3.11	-9,696.83	758.33	369.14	217.03	152.11	2.427	

LEAM Drilling Systems LLC

Anticollision Report

Company: Devon Energy
Project: Lea County, NM (NAD-83)
Reference Site: Fighting Okra 18-19 Fed
Site Error: 0.00 usft
Reference Well: 85H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Plan #1

Local Co-ordinate Reference: Well 85H
TVD Reference: 3369.1' GE + 25' KB @ 3394.10usft
MD Reference: 3369.1' GE + 25' KB @ 3394.10usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDM 5000.1 Multi User Db
Offset TVD Reference: Offset Datum

Offset Design Fighting Okra 18-19 Fed - 8H - OH - Plan #1													Offset Site Error: 0.00 usft
Survey Program: 0-LEAM MWD+HDGM													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	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	0.00	0.00	0.00	0.00	-85.09	138.20	-1,607.57	1,613.50				
100.00	100.00	96.10	96.10	0.08	0.08	-85.09	138.20	-1,607.57	1,613.50	1,613.33	0.17	9,761.773	
200.00	200.00	196.10	196.10	0.31	0.30	-85.09	138.20	-1,607.57	1,613.50	1,612.89	0.61	2,647.942	
300.00	300.00	296.10	296.10	0.53	0.53	-85.09	138.20	-1,607.57	1,613.50	1,612.44	1.06	1,523.789	
400.00	400.00	396.10	396.10	0.76	0.75	-85.09	138.20	-1,607.57	1,613.50	1,611.99	1.51	1,069.673	
500.00	500.00	496.10	496.10	0.98	0.97	-85.09	138.20	-1,607.57	1,613.50	1,611.54	1.96	824.081	
600.00	600.00	596.10	596.10	1.21	1.20	-85.09	138.20	-1,607.57	1,613.50	1,611.09	2.41	670.206	
700.00	700.00	696.10	696.10	1.43	1.42	-85.09	138.20	-1,607.57	1,613.50	1,610.64	2.86	564.753	
800.00	800.00	796.10	796.10	1.66	1.65	-85.09	138.20	-1,607.57	1,613.50	1,610.19	3.31	487.973	
900.00	900.00	896.10	896.10	1.88	1.87	-85.09	138.20	-1,607.57	1,613.50	1,609.74	3.76	429.572	
1,000.00	1,000.00	996.10	996.10	2.11	2.10	-85.09	138.20	-1,607.57	1,613.50	1,609.29	4.21	383.655	
1,100.00	1,100.00	1,096.10	1,096.10	2.33	2.32	-85.09	138.20	-1,607.57	1,613.50	1,608.84	4.66	346.607	
1,200.00	1,200.00	1,196.10	1,196.10	2.56	2.55	-85.09	138.20	-1,607.57	1,613.50	1,608.39	5.10	316.084	
1,300.00	1,300.00	1,296.10	1,296.10	2.78	2.77	-85.09	138.20	-1,607.57	1,613.50	1,607.95	5.55	290.501	
1,400.00	1,400.00	1,396.10	1,396.10	3.01	3.00	-85.09	138.20	-1,607.57	1,613.50	1,607.50	6.00	268.750	
1,500.00	1,500.00	1,496.10	1,496.10	3.23	3.22	-85.09	138.20	-1,607.57	1,613.50	1,607.05	6.45	250.029	
1,600.00	1,600.00	1,596.10	1,596.10	3.46	3.45	-85.09	138.20	-1,607.57	1,613.50	1,606.60	6.90	233.746	
1,700.00	1,700.00	1,696.10	1,696.10	3.68	3.67	-85.09	138.20	-1,607.57	1,613.50	1,606.15	7.35	219.454	
1,800.00	1,800.00	1,796.10	1,796.10	3.91	3.90	-85.09	138.20	-1,607.57	1,613.50	1,605.70	7.80	206.810	
1,900.00	1,900.00	1,896.10	1,896.10	4.13	4.12	-85.09	138.20	-1,607.57	1,613.50	1,605.25	8.25	195.543	
2,000.00	2,000.00	1,996.10	1,996.10	4.35	4.35	-85.09	138.20	-1,607.57	1,613.50	1,604.80	8.70	185.440	
2,100.00	2,100.00	2,096.10	2,096.10	4.58	4.57	-85.09	138.20	-1,607.57	1,613.50	1,604.35	9.15	176.330	
2,200.00	2,200.00	2,196.10	2,196.10	4.80	4.80	-85.09	138.20	-1,607.57	1,613.50	1,603.90	9.60	168.073	
2,300.00	2,300.00	2,296.10	2,296.10	5.03	5.02	-85.09	138.20	-1,607.57	1,613.50	1,603.45	10.05	160.555	
2,400.00	2,400.00	2,396.10	2,396.10	5.25	5.25	-85.09	138.20	-1,607.57	1,613.50	1,603.00	10.50	153.681	
2,500.00	2,500.00	2,496.10	2,496.10	5.48	5.47	-85.09	138.20	-1,607.57	1,613.50	1,602.55	10.95	147.371	
2,600.00	2,600.00	2,596.10	2,596.10	5.70	5.69	-85.09	138.20	-1,607.57	1,613.50	1,602.10	11.40	141.559	
2,700.00	2,700.00	2,696.10	2,696.10	5.93	5.92	-85.09	138.20	-1,607.57	1,613.50	1,601.65	11.85	136.187	
2,800.00	2,800.00	2,796.10	2,796.10	6.15	6.14	-85.09	138.20	-1,607.57	1,613.50	1,601.20	12.30	131.209	
2,900.00	2,900.00	2,896.10	2,896.10	6.38	6.37	-85.09	138.20	-1,607.57	1,613.50	1,600.75	12.75	126.582	
3,000.00	3,000.00	2,996.10	2,996.10	6.60	6.59	-85.09	138.20	-1,607.57	1,613.50	1,600.30	13.20	122.270	
3,100.00	3,100.00	3,130.84	3,130.83	6.83	6.88	-85.07	138.57	-1,606.12	1,612.46	1,598.76	13.70	117.668	
3,200.00	3,200.00	3,266.85	3,266.75	7.05	7.16	-85.01	139.75	-1,601.55	1,609.19	1,594.99	14.20	113.350	
3,300.00	3,300.00	3,402.55	3,402.22	7.28	7.45	-84.92	141.73	-1,593.88	1,603.69	1,589.00	14.68	109.212	
3,400.00	3,400.00	3,537.81	3,537.02	7.50	7.74	-84.78	144.50	-1,583.15	1,595.96	1,580.80	15.17	105.233	
3,500.00	3,500.00	3,672.46	3,670.92	7.73	8.04	-84.61	148.05	-1,569.40	1,586.03	1,570.39	15.64	101.402	
3,600.00	3,600.00	3,806.53	3,803.87	7.94	8.34	-144.40	152.35	-1,552.69	1,574.63	1,558.52	16.10	97.782	
3,700.00	3,699.96	3,914.37	3,910.56	8.16	8.60	-144.33	156.26	-1,537.54	1,563.08	1,546.54	16.53	94.541	
3,800.00	3,799.86	4,013.81	4,008.94	8.37	8.85	-144.30	159.89	-1,523.48	1,552.87	1,535.91	16.96	91.565	
3,900.00	3,899.68	4,113.41	4,107.48	8.58	9.10	-144.29	163.52	-1,509.39	1,544.08	1,526.69	17.39	88.798	
4,000.00	3,999.37	4,213.14	4,206.13	8.80	9.35	-144.32	167.16	-1,495.29	1,536.70	1,518.88	17.82	86.227	
4,100.00	4,098.90	4,312.96	4,304.88	9.02	9.61	-144.38	170.80	-1,481.18	1,530.74	1,512.48	18.26	83.839	
4,172.70	4,171.16	4,385.57	4,376.71	9.19	9.80	-144.43	173.45	-1,470.91	1,527.29	1,508.72	18.58	82.211	
4,200.00	4,198.27	4,412.84	4,403.69	9.25	9.88	-144.45	174.45	-1,467.05	1,526.14	1,507.44	18.70	81.619	
4,300.00	4,297.58	4,512.73	4,502.52	9.48	10.14	-144.52	178.09	-1,452.93	1,521.92	1,502.78	19.14	79.505	
4,400.00	4,396.89	4,612.63	4,601.34	9.71	10.41	-144.59	181.73	-1,438.80	1,517.70	1,498.11	19.59	77.474	
4,500.00	4,496.20	4,712.52	4,700.16	9.95	10.69	-144.66	185.38	-1,424.68	1,513.48	1,493.44	20.04	75.523	
4,600.00	4,595.51	4,812.42	4,798.99	10.19	10.96	-144.73	189.02	-1,410.55	1,509.27	1,488.77	20.49	73.647	
4,700.00	4,694.83	4,912.31	4,897.81	10.43	11.24	-144.80	192.66	-1,396.42	1,505.05	1,484.11	20.95	71.844	
4,800.00	4,794.14	5,012.21	4,996.63	10.67	11.52	-144.87	196.31	-1,382.30	1,500.84	1,479.44	21.41	70.110	
4,900.00	4,893.45	5,112.10	5,095.46	10.92	11.81	-144.94	199.95	-1,368.17	1,496.64	1,474.77	21.87	68.442	
5,000.00	4,992.76	5,211.99	5,194.28	11.17	12.09	-145.01	203.59	-1,354.05	1,492.43	1,470.10	22.33	66.837	

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

LEAM Drilling Systems LLC

Anticollision Report

Company: Devon Energy
 Project: Lea County, NM (NAD-83)
 Reference Site: Fighting Okra 18-19 Fed
 Site Error: 0.00 usft
 Reference Well: 85H
 Well Error: 0.00 usft
 Reference Wellbore: OH
 Reference Design: Plan #1

Local Co-ordinate Reference: Well 85H
 TVD Reference: 3369.1' GE + 25' KB @ 3394.10usft
 MD Reference: 3369.1' GE + 25' KB @ 3394.10usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Output errors are at 2.00 sigma
 Database: EDM 5000.1 Multi User Db
 Offset TVD Reference: Offset Datum

Offset Design Fighting Okra 18-19 Fed - 8H - OH - Plan #1												Offset Site Error:	0.00 usft
Survey Program: 0-LEAM MWD+HDGM												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	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)					
5,100.00	5,092.07	5,311.89	5,293.10	11.42	12.38	-145.08	207.24	-1,339.92	1,488.23	1,465.43	22.79	65.291	
5,200.00	5,191.38	5,411.78	5,391.93	11.67	12.67	-145.15	210.88	-1,325.80	1,484.03	1,460.77	23.26	63.802	
5,300.00	5,290.69	5,511.68	5,490.75	11.93	12.96	-145.23	214.52	-1,311.67	1,479.83	1,456.10	23.73	62.367	
5,400.00	5,390.01	5,611.57	5,589.57	12.18	13.25	-145.30	218.17	-1,297.55	1,475.63	1,451.43	24.20	60.984	
5,500.00	5,489.32	5,711.47	5,688.40	12.44	13.55	-145.37	221.81	-1,283.42	1,471.44	1,446.77	24.67	59.651	
5,600.00	5,588.63	5,811.36	5,787.22	12.70	13.84	-145.45	225.46	-1,269.30	1,467.24	1,442.10	25.14	58.364	
5,700.00	5,687.94	5,911.25	5,886.04	12.96	14.14	-145.52	229.10	-1,255.17	1,463.05	1,437.44	25.61	57.122	
5,800.00	5,787.25	6,011.15	5,984.87	13.22	14.44	-145.60	232.74	-1,241.04	1,458.87	1,432.78	26.09	55.922	
5,900.00	5,886.56	6,111.04	6,083.69	13.48	14.74	-145.67	236.39	-1,226.92	1,454.68	1,428.12	26.56	54.764	
6,000.00	5,985.88	6,210.94	6,182.51	13.75	15.04	-145.75	240.03	-1,212.79	1,450.50	1,423.46	27.04	53.644	
6,100.00	6,085.19	6,310.83	6,281.34	14.01	15.34	-145.82	243.67	-1,198.67	1,446.32	1,418.80	27.52	52.561	
6,200.00	6,184.50	6,410.73	6,380.16	14.28	15.64	-145.90	247.32	-1,184.54	1,442.15	1,414.15	28.00	51.513	
6,300.00	6,283.81	6,510.62	6,478.98	14.55	15.95	-145.97	250.96	-1,170.42	1,437.97	1,409.50	28.47	50.500	
6,400.00	6,383.12	6,610.51	6,577.81	14.81	16.25	-146.05	254.60	-1,156.29	1,433.80	1,404.84	28.96	49.518	
6,500.00	6,482.43	6,710.41	6,676.63	15.08	16.56	-146.13	258.25	-1,142.17	1,429.63	1,400.19	29.44	48.568	
6,600.00	6,581.75	6,810.30	6,775.45	15.35	16.86	-146.21	261.89	-1,128.04	1,425.46	1,395.55	29.92	47.647	
6,700.00	6,681.06	6,910.20	6,874.28	15.62	17.17	-146.29	265.53	-1,113.92	1,421.30	1,390.90	30.40	46.754	
6,800.00	6,780.37	7,010.09	6,973.10	15.90	17.48	-146.36	269.18	-1,099.79	1,417.14	1,386.26	30.88	45.889	
6,900.00	6,879.68	7,109.99	7,071.92	16.17	17.78	-146.44	272.82	-1,085.66	1,412.98	1,381.61	31.37	45.049	
7,000.00	6,978.99	7,209.88	7,170.75	16.44	18.09	-146.52	276.46	-1,071.54	1,408.82	1,376.98	31.85	44.234	
7,100.00	7,078.30	7,309.77	7,269.57	16.71	18.40	-146.60	280.11	-1,057.41	1,404.67	1,372.34	32.33	43.444	
7,200.00	7,177.61	7,409.67	7,368.40	16.99	18.71	-146.68	283.75	-1,043.29	1,400.52	1,367.70	32.82	42.676	
7,300.00	7,276.93	7,509.56	7,467.22	17.26	19.02	-146.77	287.40	-1,029.16	1,396.37	1,363.07	33.30	41.930	
7,400.00	7,376.24	7,609.46	7,566.04	17.54	19.33	-146.85	291.04	-1,015.04	1,392.23	1,358.44	33.79	41.204	
7,500.00	7,475.55	7,709.35	7,664.87	17.81	19.64	-146.93	294.68	-1,000.91	1,388.09	1,353.81	34.27	40.500	
7,600.00	7,574.86	7,809.25	7,763.69	18.09	19.96	-147.01	298.33	-986.79	1,383.95	1,349.19	34.76	39.814	
7,700.00	7,674.17	7,909.14	7,862.51	18.37	20.27	-147.10	301.97	-972.66	1,379.81	1,344.57	35.25	39.147	
7,800.00	7,773.48	8,009.03	7,961.34	18.64	20.58	-147.18	305.61	-958.54	1,375.68	1,339.95	35.73	38.499	
7,900.00	7,872.80	8,108.93	8,060.16	18.92	20.89	-147.26	309.26	-944.41	1,371.55	1,335.33	36.22	37.867	
8,000.00	7,972.11	8,208.82	8,158.98	19.20	21.21	-147.35	312.90	-930.29	1,367.42	1,330.72	36.71	37.252	
8,100.00	8,071.42	8,308.72	8,257.81	19.48	21.52	-147.43	316.54	-916.16	1,363.30	1,326.10	37.19	36.653	
8,200.00	8,170.73	8,408.61	8,356.63	19.76	21.83	-147.52	320.19	-902.03	1,359.18	1,321.50	37.68	36.070	
8,300.00	8,270.04	8,508.51	8,455.45	20.04	22.15	-147.61	323.83	-887.91	1,355.06	1,316.89	38.17	35.501	
8,400.00	8,369.35	8,608.40	8,554.28	20.32	22.46	-147.69	327.47	-873.78	1,350.94	1,312.29	38.66	34.947	
8,500.00	8,468.66	8,708.29	8,653.10	20.60	22.78	-147.78	331.12	-859.66	1,346.83	1,307.69	39.15	34.406	
8,600.00	8,567.98	8,808.19	8,751.92	20.88	23.09	-147.87	334.76	-845.53	1,342.72	1,303.09	39.63	33.879	
8,700.00	8,667.29	8,908.08	8,850.75	21.16	23.41	-147.96	338.41	-831.41	1,338.62	1,298.50	40.12	33.364	
8,800.00	8,766.60	9,007.98	8,949.57	21.44	23.73	-148.04	342.05	-817.28	1,334.52	1,293.91	40.61	32.862	
8,900.00	8,865.91	9,107.87	9,048.39	21.72	24.04	-148.13	345.69	-803.16	1,330.42	1,289.32	41.10	32.372	
9,000.00	8,965.22	9,207.77	9,147.22	22.00	24.36	-148.22	349.34	-789.03	1,326.32	1,284.74	41.59	31.893	
9,100.00	9,064.53	9,307.66	9,246.04	22.28	24.67	-148.32	352.98	-774.91	1,322.23	1,280.15	42.07	31.426	
9,200.00	9,163.85	9,407.55	9,344.86	22.57	24.99	-148.41	356.62	-760.78	1,318.14	1,275.58	42.56	30.969	
9,300.00	9,263.16	9,507.45	9,443.69	22.85	25.31	-148.50	360.27	-746.65	1,314.05	1,271.00	43.05	30.523	
9,400.00	9,362.47	9,607.34	9,542.51	23.13	25.63	-148.59	363.91	-732.53	1,309.97	1,266.43	43.54	30.087	
9,500.00	9,461.78	9,707.24	9,641.33	23.41	25.94	-148.68	367.55	-718.40	1,305.89	1,261.86	44.03	29.660	
9,600.00	9,561.09	9,807.13	9,740.16	23.70	26.26	-148.78	371.20	-704.28	1,301.82	1,257.30	44.52	29.243	
9,700.00	9,660.40	9,907.03	9,838.98	23.98	26.58	-148.87	374.84	-690.15	1,297.74	1,252.74	45.01	28.836	
9,800.00	9,759.71	10,006.92	9,937.80	24.26	26.90	-148.97	378.48	-676.03	1,293.68	1,248.18	45.49	28.437	
9,900.00	9,859.03	10,106.81	10,036.63	24.55	27.22	-149.06	382.13	-661.90	1,289.61	1,243.63	45.98	28.046	
10,000.00	9,958.34	10,206.71	10,135.45	24.83	27.53	-149.16	385.77	-647.78	1,285.55	1,239.08	46.47	27.664	
10,100.00	10,057.65	10,306.60	10,234.27	25.11	27.85	-149.25	389.41	-633.65	1,281.49	1,234.53	46.96	27.290	
10,200.00	10,156.96	10,406.50	10,333.10	25.40	28.17	-149.35	393.06	-619.53	1,277.44	1,229.99	47.45	26.924	

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

LEAM Drilling Systems LLC

Anticollision Report

Company: Devon Energy
Project: Lea County, NM (NAD-83)
Reference Site: Fighting Okra 18-19 Fed
Site Error: 0.00 usft
Reference Well: 85H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Plan #1

Local Co-ordinate Reference: Well 85H
TVD Reference: 3369.1' GE + 25' KB @ 3394.10usft
MD Reference: 3369.1' GE + 25' KB @ 3394.10usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDM 5000.1 Multi User Db
Offset TVD Reference: Offset Datum

Offset Design Fighting Okra 18-19 Fed - 8H - OH - Plan #1											Offset Site Error:	0.00 usft
Survey Program: 0-LEAM MWD+HDGM											Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	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)				
10,300.00	10,256.27	10,506.39	10,431.92	25.68	28.49	-149.45	396.70	-605.40	1,273.39	1,225.45	47.93	26.565
10,400.00	10,355.58	10,594.27	10,518.89	25.97	28.75	-149.54	399.84	-593.24	1,269.66	1,221.26	48.40	26.232
10,500.00	10,454.90	10,676.59	10,600.53	26.25	28.94	-149.63	402.50	-582.94	1,267.26	1,218.43	48.83	25.950
10,600.00	10,554.21	10,758.94	10,682.33	26.54	29.13	-149.75	404.86	-573.77	1,266.25	1,217.00	49.26	25.707
10,622.17	10,576.23	10,777.20	10,700.48	26.60	29.17	-149.77	405.34	-571.89	1,266.22	1,216.87	49.35	25.658 CC
10,700.00	10,653.52	10,841.28	10,764.25	26.82	29.31	-149.87	406.93	-565.75	1,266.64	1,216.97	49.67	25.502
10,800.00	10,752.83	10,923.57	10,846.23	27.11	29.48	-150.01	408.70	-558.87	1,268.43	1,218.36	50.07	25.332
10,900.00	10,852.14	11,000.00	10,922.46	27.39	29.63	-150.15	410.09	-553.50	1,271.64	1,221.18	50.45	25.204
11,000.00	10,951.45	11,087.87	11,010.18	27.68	29.79	-150.32	411.37	-548.54	1,276.21	1,225.37	50.85	25.100
11,100.00	11,050.77	11,169.82	11,092.05	27.96	29.94	-150.50	412.26	-545.10	1,282.20	1,230.99	51.22	25.035
11,178.62	11,128.84	11,234.13	11,156.33	28.19	30.04	-150.64	412.75	-543.18	1,287.90	1,236.40	51.50	25.006
11,200.00	11,150.08	11,251.60	11,173.79	28.24	30.07	-150.69	412.85	-542.79	1,289.56	1,237.99	51.57	25.004
11,300.00	11,249.53	11,333.26	11,255.44	28.46	30.20	-150.90	413.16	-541.61	1,297.27	1,245.39	51.88	25.005
11,400.00	11,349.15	11,423.06	11,345.25	28.66	30.35	-151.10	413.20	-541.44	1,304.72	1,252.50	52.21	24.988
11,500.00	11,448.90	11,522.81	11,445.00	28.86	30.52	-151.28	413.20	-541.44	1,310.85	1,258.26	52.59	24.924
11,600.00	11,548.76	11,622.67	11,544.86	29.05	30.70	-151.41	413.20	-541.44	1,315.47	1,262.50	52.97	24.834
11,700.00	11,648.70	11,722.61	11,644.80	29.22	30.88	-151.50	413.20	-541.44	1,318.55	1,265.21	53.35	24.716
11,800.00	11,748.68	11,822.59	11,744.78	29.39	31.06	-151.54	413.20	-541.44	1,320.11	1,266.39	53.72	24.573
11,851.32	11,800.00	11,873.91	11,796.10	29.47	31.15	-91.64	413.20	-541.44	1,320.31	1,266.40	53.91	24.489
11,900.00	11,848.68	11,922.59	11,844.78	29.56	31.24	-91.64	413.20	-541.44	1,320.31	1,266.21	54.11	24.402
12,000.00	11,948.68	12,022.59	11,944.78	29.75	31.42	-91.64	413.20	-541.44	1,320.31	1,265.80	54.51	24.219
12,100.00	12,048.68	12,122.59	12,044.78	29.94	31.60	-91.64	413.20	-541.44	1,320.31	1,265.39	54.92	24.039
12,200.00	12,148.68	12,222.59	12,144.78	30.14	31.78	-91.64	413.20	-541.44	1,320.31	1,264.98	55.33	23.860
12,300.00	12,248.68	12,322.59	12,244.78	30.33	31.96	-91.64	413.20	-541.44	1,320.31	1,264.57	55.75	23.685
12,308.91	12,257.59	12,331.51	12,253.69	30.35	31.97	-91.64	413.20	-541.44	1,320.31	1,264.53	55.78	23.689
12,392.36	12,341.04	12,413.95	12,336.14	30.51	32.12	-91.65	413.00	-541.44	1,320.32	1,264.20	56.12	23.528
12,400.00	12,348.68	12,421.11	12,343.30	30.52	32.13	88.34	412.77	-541.44	1,320.32	1,264.18	56.14	23.518
12,450.00	12,398.58	12,467.93	12,389.95	30.59	32.20	88.29	409.04	-541.44	1,320.36	1,264.07	56.29	23.457
12,500.00	12,448.05	12,514.68	12,436.08	30.65	32.25	88.26	401.53	-541.44	1,320.38	1,263.97	56.41	23.406
12,550.00	12,496.70	12,561.37	12,481.39	30.70	32.31	88.23	390.31	-541.44	1,320.40	1,263.89	56.51	23.364
12,600.00	12,544.16	12,608.04	12,525.61	30.73	32.35	88.22	375.44	-541.44	1,320.41	1,263.81	56.60	23.330
12,650.00	12,590.08	12,654.69	12,568.46	30.75	32.39	88.22	357.02	-541.44	1,320.41	1,263.74	56.66	23.303
12,700.00	12,634.11	12,700.00	12,608.51	30.76	32.42	88.23	335.86	-541.44	1,320.40	1,263.68	56.71	23.281
12,713.23	12,645.40	12,713.71	12,620.29	30.76	32.43	88.24	328.84	-541.44	1,320.39	1,263.67	56.73	23.276
12,750.00	12,675.90	12,748.06	12,649.02	30.75	32.45	88.26	310.04	-541.44	1,320.38	1,263.62	56.76	23.263
12,800.00	12,715.15	12,794.81	12,686.22	30.74	32.48	88.30	281.74	-541.44	1,320.35	1,263.56	56.79	23.248
12,850.00	12,751.55	12,841.63	12,721.04	30.73	32.50	88.35	250.46	-541.44	1,320.32	1,263.49	56.83	23.233
12,900.00	12,784.82	12,888.54	12,753.25	30.70	32.52	88.41	216.37	-541.44	1,320.28	1,263.41	56.87	23.217
12,950.00	12,814.72	12,935.57	12,782.64	30.68	32.54	88.48	179.67	-541.44	1,320.23	1,263.32	56.91	23.197
13,000.00	12,841.01	12,982.73	12,808.98	30.65	32.56	88.57	140.57	-541.44	1,320.18	1,263.21	56.97	23.171
13,050.00	12,863.50	13,030.05	12,832.09	30.62	32.58	88.66	99.30	-541.44	1,320.13	1,263.08	57.05	23.140
13,100.00	12,882.01	13,077.53	12,851.78	30.60	32.62	88.77	56.10	-541.44	1,320.08	1,262.93	57.15	23.099
13,150.00	12,896.40	13,125.21	12,867.88	30.59	32.66	88.88	11.24	-541.44	1,320.02	1,262.75	57.27	23.048
13,200.00	12,906.57	13,173.09	12,880.25	30.59	32.71	89.00	-35.00	-541.44	1,319.97	1,262.55	57.42	22.986
13,250.00	12,912.43	13,221.19	12,888.74	30.61	32.78	89.13	-82.33	-541.44	1,319.92	1,262.32	57.60	22.914
13,292.36	12,914.00	13,262.14	12,892.82	30.63	32.85	89.25	-123.07	-541.44	1,319.88	1,262.10	57.78	22.843
13,300.00	12,914.00	13,269.54	12,893.25	30.64	32.87	89.27	-130.46	-541.44	1,319.88	1,262.06	57.81	22.829
13,347.28	12,914.00	13,315.97	12,894.00	30.69	32.96	89.30	-176.87	-541.44	1,319.87	1,261.81	58.06	22.733
13,400.00	12,914.00	13,368.69	12,894.00	30.78	33.10	89.30	-229.60	-541.44	1,319.87	1,261.51	58.35	22.618
13,500.00	12,914.00	13,468.69	12,894.00	31.01	33.41	89.30	-329.60	-541.44	1,319.87	1,260.81	59.06	22.347
13,600.00	12,914.00	13,568.69	12,894.00	31.35	33.80	89.30	-429.60	-541.44	1,319.87	1,259.93	59.94	22.019
13,700.00	12,914.00	13,668.69	12,894.00	31.78	34.27	89.30	-529.60	-541.44	1,319.87	1,258.89	60.98	21.643

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

LEAM Drilling Systems LLC

Anticollision Report

Company: Devon Energy
 Project: Lea County, NM (NAD-83)
 Reference Site: Fighting Okra 18-19 Fed
 Site Error: 0.00 usft
 Reference Well: 85H
 Well Error: 0.00 usft
 Reference Wellbore: OH
 Reference Design: Plan #1

Local Co-ordinate Reference: Well 85H
 TVD Reference: 3369.1' GE + 25' KB @ 3394.10usft
 MD Reference: 3369.1' GE + 25' KB @ 3394.10usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Output errors are at 2.00 sigma
 Database: EDM 5000.1 Multi User Db
 Offset TVD Reference: Offset Datum

Offset Design Fighting Okra 18-19 Fed - 8H - OH - Plan #1													Offset Site Error: 0.00 usft
Survey Program: 0-LEAM MWD+HDGM													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	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)				Between Centres (usft)	Between Ellipses (usft)
13,800.00	12,914.00	13,768.69	12,894.00	32.29	34.81	89.30	-629.60	-541.44	1,319.87	1,257.69	62.18	21.227	
13,900.00	12,914.00	13,868.69	12,894.00	32.89	35.43	89.30	-729.60	-541.44	1,319.87	1,256.35	63.52	20.779	
14,000.00	12,914.00	13,968.69	12,894.00	33.57	36.11	89.30	-829.60	-541.44	1,319.87	1,254.87	65.00	20.306	
14,100.00	12,914.00	14,068.69	12,894.00	34.31	36.86	89.30	-929.60	-541.44	1,319.87	1,253.26	66.60	19.817	
14,200.00	12,914.00	14,168.69	12,894.00	35.11	37.67	89.30	-1,029.60	-541.44	1,319.87	1,251.54	68.33	19.316	
14,300.00	12,914.00	14,268.69	12,894.00	35.97	38.53	89.30	-1,129.60	-541.44	1,319.87	1,249.70	70.16	18.811	
14,400.00	12,914.00	14,368.69	12,894.00	36.89	39.44	89.30	-1,229.60	-541.44	1,319.87	1,247.77	72.10	18.306	
14,500.00	12,914.00	14,468.69	12,894.00	37.85	40.40	89.30	-1,329.60	-541.44	1,319.87	1,245.74	74.13	17.805	
14,600.00	12,914.00	14,568.69	12,894.00	38.86	41.40	89.30	-1,429.60	-541.44	1,319.87	1,243.62	76.25	17.311	
14,700.00	12,914.00	14,668.69	12,894.00	39.91	42.44	89.30	-1,529.60	-541.44	1,319.87	1,241.43	78.44	16.826	
14,800.00	12,914.00	14,768.69	12,894.00	41.00	43.52	89.30	-1,629.60	-541.44	1,319.87	1,239.16	80.71	16.353	
14,900.00	12,914.00	14,868.69	12,894.00	42.12	44.64	89.30	-1,729.60	-541.44	1,319.87	1,236.82	83.04	15.894	
15,000.00	12,914.00	14,968.69	12,894.00	43.28	45.78	89.30	-1,829.60	-541.44	1,319.87	1,234.43	85.44	15.448	
15,100.00	12,914.00	15,068.69	12,894.00	44.46	46.96	89.30	-1,929.60	-541.44	1,319.87	1,231.98	87.89	15.017	
15,200.00	12,914.00	15,168.69	12,894.00	45.68	48.16	89.30	-2,029.60	-541.44	1,319.87	1,229.47	90.40	14.601	
15,300.00	12,914.00	15,268.69	12,894.00	46.92	49.39	89.30	-2,129.60	-541.44	1,319.87	1,226.92	92.95	14.200	
15,400.00	12,914.00	15,368.69	12,894.00	48.18	50.64	89.30	-2,229.60	-541.44	1,319.87	1,224.32	95.54	13.814	
15,500.00	12,914.00	15,468.69	12,894.00	49.46	51.91	89.30	-2,329.60	-541.44	1,319.87	1,221.69	98.18	13.443	
15,600.00	12,914.00	15,568.69	12,894.00	50.77	53.20	89.30	-2,429.60	-541.44	1,319.87	1,219.02	100.85	13.087	
15,700.00	12,914.00	15,668.69	12,894.00	52.09	54.51	89.30	-2,529.60	-541.44	1,319.87	1,216.31	103.56	12.745	
15,800.00	12,914.00	15,768.69	12,894.00	53.43	55.84	89.30	-2,629.60	-541.44	1,319.87	1,213.57	106.30	12.417	
15,900.00	12,914.00	15,868.69	12,894.00	54.78	57.18	89.30	-2,729.60	-541.44	1,319.87	1,210.80	109.07	12.102	
16,000.00	12,914.00	15,968.69	12,894.00	56.15	58.54	89.30	-2,829.60	-541.44	1,319.87	1,208.01	111.86	11.799	
16,100.00	12,914.00	16,068.69	12,894.00	57.54	59.91	89.30	-2,929.60	-541.44	1,319.87	1,205.19	114.68	11.509	
16,200.00	12,914.00	16,168.69	12,894.00	58.94	61.29	89.30	-3,029.60	-541.44	1,319.87	1,202.35	117.52	11.231	
16,300.00	12,914.00	16,268.69	12,894.00	60.34	62.69	89.30	-3,129.60	-541.44	1,319.87	1,199.48	120.39	10.964	
16,400.00	12,914.00	16,368.69	12,894.00	61.76	64.10	89.30	-3,229.60	-541.44	1,319.87	1,196.60	123.27	10.707	
16,500.00	12,914.00	16,468.69	12,894.00	63.19	65.52	89.30	-3,329.60	-541.44	1,319.87	1,193.69	126.18	10.461	
16,600.00	12,914.00	16,568.69	12,894.00	64.63	66.95	89.30	-3,429.60	-541.44	1,319.87	1,190.77	129.10	10.224	
16,700.00	12,914.00	16,668.69	12,894.00	66.08	68.38	89.30	-3,529.60	-541.44	1,319.87	1,187.83	132.03	9.996	
16,800.00	12,914.00	16,768.69	12,894.00	67.54	69.83	89.30	-3,629.60	-541.44	1,319.87	1,184.88	134.99	9.778	
16,900.00	12,914.00	16,868.69	12,894.00	69.01	71.28	89.30	-3,729.60	-541.44	1,319.87	1,181.92	137.95	9.568	
17,000.00	12,914.00	16,968.69	12,894.00	70.48	72.75	89.30	-3,829.60	-541.44	1,319.87	1,178.94	140.93	9.365	
17,100.00	12,914.00	17,068.69	12,894.00	71.96	74.22	89.30	-3,929.60	-541.44	1,319.87	1,175.94	143.93	9.170	
17,200.00	12,914.00	17,168.69	12,894.00	73.44	75.69	89.30	-4,029.60	-541.44	1,319.87	1,172.94	146.93	8.983	
17,300.00	12,914.00	17,268.69	12,894.00	74.94	77.17	89.30	-4,129.60	-541.44	1,319.87	1,169.92	149.95	8.802	
17,400.00	12,914.00	17,368.69	12,894.00	76.43	78.66	89.30	-4,229.60	-541.44	1,319.87	1,166.90	152.97	8.628	
17,500.00	12,914.00	17,468.69	12,894.00	77.94	80.16	89.30	-4,329.60	-541.44	1,319.87	1,163.86	156.01	8.460	
17,600.00	12,914.00	17,568.69	12,894.00	79.45	81.66	89.30	-4,429.60	-541.44	1,319.87	1,160.82	159.05	8.298	
17,700.00	12,914.00	17,668.69	12,894.00	80.96	83.16	89.30	-4,529.60	-541.44	1,319.87	1,157.76	162.11	8.142	
17,800.00	12,914.00	17,768.69	12,894.00	82.48	84.67	89.30	-4,629.60	-541.44	1,319.87	1,154.70	165.17	7.991	
17,900.00	12,914.00	17,868.69	12,894.00	84.00	86.18	89.30	-4,729.60	-541.44	1,319.87	1,151.63	168.24	7.845	
18,000.00	12,914.00	17,968.69	12,894.00	85.53	87.70	89.30	-4,829.60	-541.44	1,319.87	1,148.55	171.31	7.704	
18,100.00	12,914.00	18,068.69	12,894.00	87.06	89.23	89.30	-4,929.60	-541.44	1,319.87	1,145.47	174.40	7.568	
18,200.00	12,914.00	18,168.69	12,894.00	88.59	90.75	89.30	-5,029.60	-541.44	1,319.87	1,142.38	177.49	7.436	
18,300.00	12,914.00	18,268.69	12,894.00	90.13	92.28	89.30	-5,129.60	-541.44	1,319.87	1,139.28	180.59	7.309	
18,400.00	12,914.00	18,368.69	12,894.00	91.67	93.82	89.30	-5,229.60	-541.44	1,319.87	1,136.18	183.69	7.185	
18,500.00	12,914.00	18,468.69	12,894.00	93.21	95.35	89.30	-5,329.60	-541.44	1,319.87	1,133.07	186.80	7.066	
18,600.00	12,914.00	18,568.69	12,894.00	94.76	96.89	89.30	-5,429.60	-541.44	1,319.87	1,129.96	189.91	6.950	
18,700.00	12,914.00	18,668.69	12,894.00	96.31	98.44	89.30	-5,529.60	-541.44	1,319.87	1,126.84	193.03	6.838	
18,800.00	12,914.00	18,768.69	12,894.00	97.86	99.98	89.30	-5,629.60	-541.44	1,319.87	1,123.72	196.15	6.729	
18,900.00	12,914.00	18,868.69	12,894.00	99.42	101.53	89.30	-5,729.60	-541.44	1,319.87	1,120.59	199.28	6.623	

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

LEAM Drilling Systems LLC

Anticollision Report

Company: Devon Energy
 Project: Lea County, NM (NAD-83)
 Reference Site: Fighting Okra 18-19 Fed
 Site Error: 0.00 usft
 Reference Well: 85H
 Well Error: 0.00 usft
 Reference Wellbore: OH
 Reference Design: Plan #1

Local Co-ordinate Reference: Well 85H
 TVD Reference: 3369.1' GE + 25' KB @ 3394.10usft
 MD Reference: 3369.1' GE + 25' KB @ 3394.10usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Output errors are at: 2.00 sigma
 Database: EDM 5000.1 Multi User Db
 Offset TVD Reference: Offset Datum

Offset Design Fighting Okra 18-19 Fed - 8H - OH - Plan #1													Offset Site Error: 0.00 usft
Survey Program: O-LEAM MWD+HDGM													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore +N/-S (usft)	Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,000.00	12,914.00	18,968.69	12,894.00	100.98	103.08	89.30	-5,829.60	-541.44	1,319.87	1,117.45	202.41	6.521	
19,100.00	12,914.00	19,068.69	12,894.00	102.54	104.64	89.30	-5,929.60	-541.44	1,319.87	1,114.32	205.55	6.421	
19,200.00	12,914.00	19,168.69	12,894.00	104.10	106.19	89.30	-6,029.60	-541.44	1,319.87	1,111.18	208.69	6.324	
19,300.00	12,914.00	19,268.69	12,894.00	105.67	107.75	89.30	-6,129.60	-541.44	1,319.87	1,108.03	211.84	6.231	
19,400.00	12,914.00	19,368.69	12,894.00	107.23	109.31	89.30	-6,229.60	-541.44	1,319.87	1,104.88	214.99	6.139	
19,500.00	12,914.00	19,468.69	12,894.00	108.80	110.87	89.30	-6,329.60	-541.44	1,319.87	1,101.73	218.14	6.051	
19,600.00	12,914.00	19,568.69	12,894.00	110.37	112.44	89.30	-6,429.60	-541.44	1,319.87	1,098.57	221.29	5.964	
19,700.00	12,914.00	19,668.69	12,894.00	111.94	114.01	89.30	-6,529.60	-541.44	1,319.87	1,095.42	224.45	5.880	
19,800.00	12,914.00	19,768.69	12,894.00	113.52	115.57	89.30	-6,629.60	-541.44	1,319.87	1,092.25	227.61	5.799	
19,900.00	12,914.00	19,868.69	12,894.00	115.09	117.15	89.30	-6,729.60	-541.44	1,319.87	1,089.09	230.78	5.719	
20,000.00	12,914.00	19,968.69	12,894.00	116.67	118.72	89.30	-6,829.60	-541.44	1,319.87	1,085.92	233.95	5.642	
20,100.00	12,914.00	20,068.69	12,894.00	118.25	120.29	89.30	-6,929.60	-541.44	1,319.87	1,082.75	237.12	5.566	
20,200.00	12,914.00	20,168.69	12,894.00	119.83	121.87	89.30	-7,029.60	-541.44	1,319.87	1,079.58	240.29	5.493	
20,300.00	12,914.00	20,268.69	12,894.00	121.41	123.44	89.30	-7,129.60	-541.44	1,319.87	1,076.40	243.47	5.421	
20,400.00	12,914.00	20,368.69	12,894.00	123.00	125.02	89.30	-7,229.60	-541.44	1,319.87	1,073.22	246.64	5.351	
20,500.00	12,914.00	20,468.69	12,894.00	124.58	126.60	89.30	-7,329.60	-541.44	1,319.87	1,070.04	249.82	5.283	
20,600.00	12,914.00	20,568.69	12,894.00	126.17	128.18	89.30	-7,429.60	-541.44	1,319.87	1,066.86	253.01	5.217	
20,700.00	12,914.00	20,668.69	12,894.00	127.75	129.77	89.30	-7,529.60	-541.44	1,319.87	1,063.68	256.19	5.152	
20,800.00	12,914.00	20,768.69	12,894.00	129.34	131.35	89.30	-7,629.60	-541.44	1,319.87	1,060.49	259.38	5.089	
20,900.00	12,914.00	20,868.69	12,894.00	130.93	132.94	89.30	-7,729.60	-541.44	1,319.87	1,057.30	262.57	5.027	
21,000.00	12,914.00	20,968.69	12,894.00	132.52	134.52	89.30	-7,829.60	-541.44	1,319.87	1,054.11	265.76	4.966	
21,100.00	12,914.00	21,068.69	12,894.00	134.11	136.11	89.30	-7,929.60	-541.44	1,319.87	1,050.92	268.95	4.907	
21,200.00	12,914.00	21,168.69	12,894.00	135.71	137.70	89.30	-8,029.60	-541.44	1,319.87	1,047.72	272.15	4.850	
21,300.00	12,914.00	21,268.69	12,894.00	137.30	139.29	89.30	-8,129.60	-541.44	1,319.87	1,044.53	275.34	4.794	
21,400.00	12,914.00	21,368.69	12,894.00	138.90	140.88	89.30	-8,229.60	-541.44	1,319.87	1,041.33	278.54	4.739	
21,500.00	12,914.00	21,468.69	12,894.00	140.49	142.47	89.30	-8,329.60	-541.44	1,319.87	1,038.13	281.74	4.685	
21,600.00	12,914.00	21,568.69	12,894.00	142.09	144.06	89.30	-8,429.60	-541.44	1,319.87	1,034.93	284.94	4.632	
21,700.00	12,914.00	21,668.69	12,894.00	143.68	145.65	89.30	-8,529.60	-541.44	1,319.87	1,031.72	288.14	4.581	
21,800.00	12,914.00	21,768.69	12,894.00	145.28	147.25	89.30	-8,629.60	-541.44	1,319.87	1,028.52	291.35	4.530	
21,900.00	12,914.00	21,868.69	12,894.00	146.88	148.84	89.30	-8,729.60	-541.44	1,319.87	1,025.32	294.55	4.481	
22,000.00	12,914.00	21,968.69	12,894.00	148.48	150.44	89.30	-8,829.60	-541.44	1,319.87	1,022.11	297.76	4.433	
22,100.00	12,914.00	22,068.69	12,894.00	150.08	152.04	89.30	-8,929.60	-541.44	1,319.87	1,018.90	300.97	4.385	
22,200.00	12,914.00	22,168.69	12,894.00	151.68	153.64	89.30	-9,029.60	-541.44	1,319.87	1,015.69	304.18	4.339	
22,300.00	12,914.00	22,268.69	12,894.00	153.28	155.23	89.30	-9,129.60	-541.44	1,319.87	1,012.48	307.39	4.294	
22,400.00	12,914.00	22,368.69	12,894.00	154.89	156.83	89.30	-9,229.60	-541.44	1,319.87	1,009.27	310.60	4.249	
22,500.00	12,914.00	22,468.69	12,894.00	156.49	158.43	89.30	-9,329.60	-541.44	1,319.87	1,006.06	313.81	4.206	
22,600.00	12,914.00	22,568.69	12,894.00	158.09	160.03	89.30	-9,429.60	-541.44	1,319.87	1,002.84	317.03	4.163	
22,700.00	12,914.00	22,668.69	12,894.00	159.70	161.63	89.30	-9,529.60	-541.44	1,319.87	999.63	320.24	4.121	
22,800.00	12,914.00	22,768.69	12,894.00	161.30	163.24	89.30	-9,629.60	-541.44	1,319.87	996.41	323.46	4.080	
22,867.23	12,914.00	22,835.93	12,894.00	162.38	164.31	89.30	-9,696.83	-541.44	1,319.87	994.25	325.62	4.053 ES, 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
 Project: Lea County, NM (NAD-83)
 Reference Site: Fighting Okra 18-19 Fed
 Site Error: 0.00 usft
 Reference Well: 85H
 Well Error: 0.00 usft
 Reference Wellbore: OH
 Reference Design: Plan #1

Local Co-ordinate Reference: Well 85H
 TVD Reference: 3369.1' GE + 25' KB @ 3394.10usft
 MD Reference: 3369.1' GE + 25' KB @ 3394.10usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Output errors are at 2.00 sigma
 Database: EDM 5000.1 Multi User Db
 Offset TVD Reference: Offset Datum

Offset Design Fighting Okra 18-19 Fed - Fighting Okra Fed Com 1H (offset) - OH - OH												Offset Site Error:	0.00 usft
Survey Program: 119- VES GyroFlex V2, 9389-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 Centro +N-S (usft)	+E-W (usft)					
0.00	0.00	0.00	0.00	0.00	0.00	-118.26	-2,094.89	-3,897.05	4,424.44				
100.00	100.00	110.58	110.58	0.08	0.08	-118.26	-2,094.87	-3,896.75	4,424.21	4,424.05	0.16	N/A	
200.00	200.00	233.52	233.52	0.31	0.20	-118.27	-2,095.02	-3,895.62	4,423.46	4,422.94	0.52	8,574.399	
300.00	300.00	351.91	351.90	0.53	0.29	-118.28	-2,095.16	-3,893.88	4,422.21	4,421.39	0.82	5,387.273	
400.00	400.00	451.41	451.37	0.76	0.35	-118.29	-2,095.07	-3,892.26	4,420.73	4,419.63	1.10	4,019.519	
500.00	500.00	543.95	543.91	0.98	0.40	-118.30	-2,095.16	-3,890.83	4,419.42	4,418.05	1.37	3,227.443	
600.00	600.00	639.39	639.34	1.21	0.44	-118.31	-2,095.32	-3,889.45	4,418.23	4,416.59	1.64	2,698.909	
700.00	700.00	741.01	740.94	1.43	0.49	-118.32	-2,095.46	-3,888.07	4,417.10	4,415.20	1.91	2,318.115	
800.00	800.00	847.47	847.40	1.66	0.54	-118.33	-2,095.43	-3,886.57	4,415.84	4,413.67	2.17	2,030.593	
900.00	900.00	945.42	945.33	1.88	0.58	-118.34	-2,095.47	-3,885.08	4,414.52	4,412.08	2.44	1,810.566	
1,000.00	1,000.00	1,023.99	1,023.89	2.11	0.61	-118.35	-2,095.63	-3,884.01	4,413.44	4,410.75	2.69	1,640.370	
1,100.00	1,100.00	1,112.42	1,112.32	2.33	0.65	-118.36	-2,096.13	-3,883.19	4,412.87	4,409.93	2.94	1,499.014	
1,200.00	1,200.00	1,222.97	1,222.86	2.56	0.69	-118.37	-2,096.68	-3,882.09	4,412.23	4,409.03	3.20	1,377.487	
1,300.00	1,300.00	1,333.31	1,333.19	2.78	0.74	-118.39	-2,097.30	-3,880.63	4,411.34	4,407.88	3.46	1,273.990	
1,400.00	1,400.00	1,399.17	1,399.05	3.01	0.76	-118.40	-2,097.65	-3,879.90	4,410.66	4,406.95	3.70	1,191.080	
1,424.65	1,424.65	1,413.68	1,413.55	3.06	0.76	-118.40	-2,097.76	-3,879.83	4,410.63	4,406.87	3.76	1,172.517	
1,500.00	1,500.00	1,468.46	1,468.33	3.23	0.78	-118.41	-2,098.27	-3,879.76	4,410.86	4,406.92	3.94	1,119.297	
1,600.00	1,600.00	1,575.94	1,575.81	3.46	0.81	-118.42	-2,099.43	-3,879.67	4,411.30	4,407.12	4.18	1,055.349	
1,700.00	1,700.00	1,679.65	1,679.51	3.68	0.84	-118.44	-2,100.65	-3,879.19	4,411.45	4,407.03	4.42	997.793	
1,800.00	1,800.00	1,773.18	1,773.03	3.91	0.86	-118.45	-2,101.84	-3,878.89	4,411.78	4,407.12	4.66	946.607	
1,900.00	1,900.00	1,874.83	1,874.67	4.13	0.89	-118.47	-2,103.31	-3,878.49	4,412.12	4,407.22	4.90	900.336	
2,000.00	2,000.00	1,985.23	1,985.07	4.35	0.93	-118.49	-2,104.44	-3,878.18	4,412.37	4,407.22	5.14	858.039	
2,100.00	2,100.00	2,087.37	2,087.20	4.58	0.96	-118.50	-2,105.33	-3,877.73	4,412.39	4,407.01	5.38	819.494	
2,200.00	2,200.00	2,190.36	2,190.19	4.80	1.00	-118.51	-2,106.43	-3,877.15	4,412.41	4,406.78	5.63	784.211	
2,300.00	2,300.00	2,312.68	2,312.49	5.03	1.04	-118.53	-2,107.31	-3,876.21	4,412.06	4,406.19	5.88	750.799	
2,400.00	2,400.00	2,407.82	2,407.63	5.25	1.07	-118.54	-2,107.60	-3,875.63	4,411.67	4,405.54	6.12	720.467	
2,500.00	2,500.00	2,580.71	2,580.50	5.48	1.12	-118.55	-2,107.20	-3,873.48	4,410.51	4,404.11	6.39	689.855	
2,600.00	2,600.00	2,685.65	2,685.42	5.70	1.16	-118.56	-2,106.82	-3,871.18	4,408.40	4,401.76	6.65	663.170	
2,700.00	2,700.00	2,822.50	2,822.21	5.93	1.20	-118.58	-2,106.45	-3,867.32	4,405.80	4,398.89	6.91	637.652	
2,800.00	2,800.00	2,930.16	2,929.78	6.15	1.24	-118.61	-2,107.22	-3,862.98	4,402.59	4,395.43	7.16	614.716	
2,900.00	2,900.00	3,023.34	3,022.84	6.38	1.27	-118.66	-2,109.13	-3,858.61	4,399.46	4,392.05	7.41	593.789	
3,000.00	3,000.00	3,130.98	3,130.31	6.60	1.31	-118.73	-2,111.98	-3,853.28	4,396.38	4,388.73	7.66	574.075	
3,100.00	3,100.00	3,277.94	3,277.06	6.83	1.36	-118.80	-2,114.24	-3,845.81	4,392.69	4,384.77	7.92	554.829	
3,200.00	3,200.00	3,390.95	3,389.92	7.05	1.40	-118.83	-2,114.06	-3,840.00	4,388.08	4,379.91	8.17	536.938	
3,300.00	3,300.00	3,494.81	3,493.66	7.28	1.43	-118.86	-2,113.24	-3,835.06	4,383.53	4,375.10	8.43	520.190	
3,400.00	3,400.00	3,582.09	3,580.82	7.50	1.46	-118.88	-2,112.94	-3,830.61	4,378.92	4,370.24	8.68	504.632	
3,500.00	3,500.00	3,670.80	3,669.44	7.73	1.49	-118.90	-2,112.64	-3,826.54	4,374.73	4,365.80	8.93	489.977	
3,600.00	3,600.00	3,776.91	3,775.44	7.94	1.53	-118.84	-2,112.09	-3,821.80	4,371.44	4,362.26	9.18	476.386	
3,700.00	3,699.96	3,881.53	3,879.97	8.16	1.56	-118.85	-2,110.50	-3,817.49	4,369.71	4,360.29	9.42	463.963	
3,748.23	3,748.15	3,927.87	3,926.26	8.26	1.57	-118.85	-2,109.34	-3,815.82	4,369.49	4,359.96	9.53	458.268 CC	
3,800.00	3,799.86	3,975.34	3,973.68	8.37	1.58	-118.84	-2,108.16	-3,814.14	4,369.75	4,360.09	9.66	452.378	
3,900.00	3,899.68	4,056.02	4,054.30	8.58	1.60	-118.84	-2,106.09	-3,811.56	4,371.82	4,361.92	9.90	441.670	
4,000.00	3,999.37	4,136.54	4,134.76	8.80	1.61	-118.82	-2,103.59	-3,809.67	4,376.11	4,365.98	10.14	431.674	
4,100.00	4,098.90	4,211.62	4,209.79	9.02	1.63	-118.81	-2,101.46	-3,808.16	4,382.58	4,372.21	10.38	422.381	
4,172.70	4,171.16	4,257.12	4,255.28	9.19	1.64	-118.80	-2,100.51	-3,807.40	4,388.85	4,378.30	10.55	416.101	
4,200.00	4,198.27	4,281.11	4,279.26	9.25	1.64	-118.80	-2,100.14	-3,807.05	4,391.50	4,380.88	10.61	413.752	
4,300.00	4,297.58	4,368.85	4,366.98	9.48	1.66	-118.80	-2,099.01	-3,805.83	4,401.37	4,390.51	10.86	405.401	
4,400.00	4,396.89	4,542.45	4,540.50	9.71	1.71	-118.81	-2,097.00	-3,801.36	4,410.17	4,399.05	11.12	396.463	
4,500.00	4,496.20	4,659.51	4,657.45	9.95	1.75	-118.84	-2,097.04	-3,796.16	4,418.00	4,406.63	11.37	388.419	
4,600.00	4,595.51	4,754.11	4,751.92	10.19	1.79	-118.89	-2,098.33	-3,791.35	4,425.93	4,414.31	11.62	380.979	
4,700.00	4,694.83	4,801.66	4,799.41	10.43	1.80	-118.92	-2,099.36	-3,789.16	4,434.57	4,422.72	11.85	374.250	
4,800.00	4,794.14	4,868.07	4,865.75	10.67	1.83	-118.96	-2,100.95	-3,786.65	4,444.12	4,432.04	12.08	367.778	

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

LEAM Drilling Systems LLC

Anticollision Report

Company: Devon Energy
Project: Lea County, NM (NAD-83)
Reference Site: Fighting Okra 18-19 Fed
Site Error: 0.00 usft
Reference Well: 85H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Plan #1

Local Co-ordinate Reference: Well 85H
TVD Reference: 3369.1' GE + 25' KB @ 3394.10usft
MD Reference: 3369.1' GE + 25' KB @ 3394.10usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM 5000.1 Multi User Db
Offset TVD Reference: Offset Datum

Offset Design Fighting Okra 18-19 Fed - Fighting Okra Fed Com 1H (offset) - OH - OH													Offset Site Error: 0.00 usft
Survey Program: 119- VES GyroFlex V2, 9389-MWD-ISCWSA													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,900.00	4,893.45	4,966.44	4,964.03	10.92	1.86	-179.00	-2,103.26	-3,783.35	4,454.05	4,441.73	12.32	361.444	
5,000.00	4,992.76	5,078.23	5,075.75	11.17	1.90	-179.05	-2,105.26	-3,779.62	4,463.72	4,451.15	12.57	355.195	
5,100.00	5,092.07	5,167.04	5,164.50	11.42	1.93	-179.09	-2,106.81	-3,776.70	4,473.42	4,460.61	12.81	349.272	
5,200.00	5,191.38	5,263.75	5,261.16	11.67	1.96	-179.13	-2,108.15	-3,774.06	4,483.43	4,470.38	13.05	343.519	
5,300.00	5,290.69	5,364.21	5,361.57	11.93	2.00	-179.16	-2,108.91	-3,770.73	4,493.04	4,479.73	13.30	337.708	
5,400.00	5,390.01	5,458.90	5,456.22	12.18	2.03	-179.18	-2,109.32	-3,768.66	4,502.66	4,489.11	13.55	332.390	
5,500.00	5,489.32	5,530.91	5,528.21	12.44	2.05	-179.20	-2,110.39	-3,767.02	4,513.07	4,499.29	13.79	327.370	
5,600.00	5,588.63	5,653.80	5,651.07	12.70	2.10	-179.23	-2,111.56	-3,764.32	4,523.33	4,509.29	14.04	322.235	
5,700.00	5,687.94	5,735.90	5,733.15	12.96	2.12	-179.25	-2,112.00	-3,762.61	4,533.51	4,519.23	14.28	317.447	
5,800.00	5,787.25	5,803.98	5,801.21	13.22	2.15	-179.27	-2,113.01	-3,761.37	4,544.36	4,529.84	14.52	312.988	
5,900.00	5,886.56	5,904.17	5,901.37	13.48	2.18	-179.30	-2,114.69	-3,759.80	4,555.54	4,540.78	14.76	308.672	
6,000.00	5,985.88	6,016.50	6,013.68	13.75	2.21	-179.33	-2,116.19	-3,758.06	4,566.56	4,551.55	15.00	304.392	
6,100.00	6,085.19	6,124.12	6,121.26	14.01	2.25	-179.36	-2,117.76	-3,755.94	4,577.28	4,562.03	15.25	300.205	
6,200.00	6,184.50	6,205.08	6,202.20	14.28	2.27	-179.39	-2,119.05	-3,754.35	4,588.08	4,572.60	15.49	296.269	
6,300.00	6,283.81	6,271.21	6,268.31	14.55	2.29	-179.41	-2,120.38	-3,753.41	4,599.55	4,583.83	15.72	292.573	
6,400.00	6,383.12	6,393.87	6,390.95	14.81	2.33	-179.44	-2,122.30	-3,752.07	4,611.08	4,595.11	15.96	288.885	
6,500.00	6,482.43	6,498.40	6,495.46	15.08	2.36	-179.46	-2,123.35	-3,750.85	4,622.28	4,606.07	16.20	285.243	
6,600.00	6,581.75	6,586.48	6,583.53	15.35	2.39	-179.48	-2,124.57	-3,749.71	4,633.56	4,617.11	16.44	281.777	
6,700.00	6,681.06	6,680.81	6,677.84	15.62	2.42	-179.50	-2,126.04	-3,748.77	4,645.16	4,628.48	16.68	278.448	
6,800.00	6,780.37	6,802.02	6,799.04	15.90	2.46	-179.53	-2,127.24	-3,747.45	4,656.41	4,639.48	16.93	275.055	
6,900.00	6,879.68	6,883.21	6,880.22	16.17	2.48	-179.54	-2,127.86	-3,746.57	4,667.58	4,650.41	17.17	271.842	
7,000.00	6,978.99	6,949.36	6,946.36	16.44	2.50	-179.56	-2,128.98	-3,745.99	4,679.38	4,661.98	17.41	268.844	
7,100.00	7,078.30	7,024.51	7,021.50	16.71	2.51	-179.57	-2,130.40	-3,746.02	4,691.99	4,674.36	17.63	266.069	
7,200.00	7,177.61	7,138.52	7,135.49	16.99	2.52	-179.59	-2,132.09	-3,746.34	4,704.70	4,686.85	17.86	263.480	
7,300.00	7,276.93	7,250.45	7,247.42	17.26	2.54	-179.60	-2,133.30	-3,746.52	4,717.11	4,699.03	18.08	260.884	
7,400.00	7,376.24	7,366.62	7,363.58	17.54	2.57	-179.62	-2,134.68	-3,745.72	4,728.77	4,710.46	18.32	258.185	
7,500.00	7,475.55	7,482.57	7,479.52	17.81	2.60	-179.64	-2,135.52	-3,745.24	4,740.51	4,721.95	18.56	255.466	
7,600.00	7,574.86	7,592.11	7,589.05	18.09	2.64	-179.65	-2,136.15	-3,744.12	4,751.61	4,732.80	18.81	252.659	
7,700.00	7,674.17	11,910.00	9,813.96	18.37	58.71	-152.72	123.26	-3,841.24	4,749.13	4,680.28	68.85	68.973	
7,800.00	7,773.48	11,915.23	9,814.13	18.64	58.83	-152.65	128.48	-3,841.28	4,714.23	4,644.45	69.78	67.555	
7,900.00	7,872.80	11,936.00	9,814.84	18.92	59.32	-152.38	149.24	-3,841.49	4,681.25	4,610.20	71.05	65.891	
8,000.00	7,972.11	11,936.00	9,814.84	19.20	59.32	-152.38	149.24	-3,841.49	4,650.10	4,578.26	71.84	64.732	
8,100.00	8,071.42	11,936.00	9,814.84	19.48	59.32	-152.38	149.24	-3,841.49	4,620.90	4,548.29	72.61	63.641	
8,200.00	8,170.73	11,936.42	9,814.85	19.76	59.33	-152.38	149.66	-3,841.49	4,593.70	4,520.33	73.37	62.607	
8,300.00	8,270.04	11,948.36	9,815.24	20.04	59.63	-152.22	161.59	-3,841.64	4,568.51	4,494.12	74.40	61.408	
8,400.00	8,369.35	11,959.52	9,815.57	20.32	59.91	-152.08	172.74	-3,841.77	4,545.36	4,469.98	75.38	60.298	
8,500.00	8,468.66	11,969.97	9,815.85	20.60	60.17	-151.95	183.19	-3,841.91	4,524.28	4,447.95	76.33	59.273	
8,600.00	8,567.98	11,979.78	9,816.09	20.88	60.42	-151.82	193.00	-3,842.04	4,505.31	4,428.07	77.24	58.330	
8,700.00	8,667.29	11,989.00	9,816.29	21.16	60.65	-151.70	202.22	-3,842.16	4,488.46	4,410.35	78.11	57.465	
8,800.00	8,766.60	11,997.69	9,816.46	21.44	60.87	-151.59	210.91	-3,842.28	4,473.77	4,394.84	78.94	56.674	
8,900.00	8,865.91	12,005.89	9,816.60	21.72	61.07	-151.48	219.10	-3,842.40	4,461.27	4,381.54	79.73	55.957	
9,000.00	8,965.22	12,013.65	9,816.72	22.00	61.26	-151.38	226.86	-3,842.51	4,450.96	4,370.48	80.47	55.309	
9,100.00	9,064.53	12,020.98	9,816.82	22.28	61.45	-151.29	234.19	-3,842.62	4,442.86	4,361.68	81.18	54.728	
9,200.00	9,163.85	12,027.94	9,816.90	22.57	61.62	-151.20	241.15	-3,842.73	4,437.00	4,355.15	81.84	54.213	
9,300.00	9,263.16	12,038.89	9,817.00	22.85	61.91	-151.06	252.10	-3,842.89	4,433.37	4,350.78	82.59	53.682	
9,400.00	9,362.47	12,052.32	9,817.08	23.13	62.26	-150.88	265.53	-3,843.08	4,431.97	4,348.61	83.37	53.162	
9,412.34	9,374.72	12,053.89	9,817.09	23.16	62.31	-150.86	267.09	-3,843.10	4,431.96	4,348.50	83.46	53.103 ES	
9,500.00	9,461.78	12,064.51	9,817.12	23.41	62.59	-150.73	277.71	-3,843.24	4,432.82	4,348.74	84.08	52.722	
9,600.00	9,561.09	12,075.61	9,817.12	23.70	62.88	-150.58	288.81	-3,843.37	4,435.90	4,351.17	84.73	52.356	
9,700.00	9,660.40	12,085.76	9,817.09	23.98	63.15	-150.45	298.96	-3,843.48	4,441.22	4,355.91	85.31	52.059	
9,800.00	9,759.71	12,095.09	9,817.05	24.26	63.40	-150.33	308.29	-3,843.57	4,448.77	4,362.93	85.84	51.829	
9,900.00	9,859.03	12,103.69	9,816.99	24.55	63.63	-150.22	316.89	-3,843.65	4,458.54	4,372.23	86.30	51.661	

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

LEAM Drilling Systems LLC

Anticollision Report

Company: Devon Energy
Project: Lea County, NM (NAD-83)
Reference Site: Fighting Okra 18-19 Fed
Site Error: 0.00 usft
Reference Well: 85H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Plan #1

Local Co-ordinate Reference: Well 85H
TVD Reference: 3369.1' GE + 25' KB @ 3394.10usft
MD Reference: 3369.1' GE + 25' KB @ 3394.10usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM 5000.1 Multi User Db
Offset TVD Reference: Offset Datum

Offset Design Fighting Okra 18-19 Fed - Fighting Okra Fed Com 1H (offset) - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 119- VES GyroFlex V2, 9389-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)					Between Centres (usft)	Between Ellipses (usft)
10,000.00	9,958.34	12,111.63	9,816.91	24.83	63.84	-150.12	324.83	-3,843.72	4,470.51	4,383.79	86.72	51.550		
10,100.00	10,057.65	12,119.00	9,816.83	25.11	64.03	-150.02	332.20	-3,843.77	4,484.68	4,397.42	87.26	51.392		
10,200.00	10,156.96	12,125.94	9,816.74	25.40	64.22	-149.93	339.14	-3,843.82	4,501.02	4,413.26	87.76	51.288		
10,300.00	10,256.27	12,133.17	9,816.64	25.68	64.42	-149.84	346.37	-3,843.87	4,519.50	4,431.27	88.23	51.225		
10,400.00	10,355.58	12,140.31	9,816.54	25.97	64.61	-149.75	353.51	-3,843.91	4,540.11	4,451.45	88.66	51.208 SF		
10,500.00	10,454.90	12,147.35	9,816.44	26.25	64.80	-149.66	360.55	-3,843.94	4,562.80	4,473.75	89.05	51.237		
10,600.00	10,554.21	12,154.30	9,816.34	26.54	64.99	-149.57	367.49	-3,843.98	4,587.56	4,498.15	89.41	51.310		
10,700.00	10,653.52	12,161.15	9,816.24	26.82	65.17	-149.48	374.35	-3,844.00	4,614.35	4,524.62	89.73	51.426		
10,800.00	10,752.83	12,167.92	9,816.13	27.11	65.36	-149.39	381.11	-3,844.02	4,643.13	4,553.11	90.01	51.582		
10,900.00	10,852.14	12,174.60	9,816.02	27.39	65.54	-149.31	387.79	-3,844.04	4,673.87	4,583.60	90.27	51.778		
11,000.00	10,951.45	12,181.19	9,815.92	27.68	65.72	-149.22	394.38	-3,844.05	4,706.52	4,616.03	90.49	52.012		
11,100.00	11,050.77	12,187.69	9,815.81	27.96	65.89	-149.14	400.88	-3,844.06	4,741.05	4,650.37	90.68	52.283		
11,178.62	11,128.84	12,192.75	9,815.73	28.19	66.03	-149.07	405.94	-3,844.07	4,769.50	4,678.69	90.81	52.521		
11,200.00	11,150.08	12,194.08	9,815.70	28.24	66.07	-149.10	407.27	-3,844.07	4,777.39	4,686.56	90.84	52.592		
11,300.00	11,249.53	12,199.48	9,815.61	28.46	66.21	-149.23	412.67	-3,844.07	4,814.58	4,723.67	90.90	52.963		
11,400.00	11,349.15	12,203.48	9,815.54	28.66	66.32	-149.39	416.67	-3,844.07	4,852.15	4,761.25	90.90	53.376		
11,500.00	11,448.90	12,206.13	9,815.50	28.86	66.39	-149.56	419.32	-3,844.07	4,890.10	4,799.26	90.84	53.830		
11,600.00	11,548.76	12,207.43	9,815.47	29.05	66.43	-149.76	420.62	-3,844.07	4,928.41	4,837.69	90.72	54.324		
11,700.00	11,648.70	12,207.43	9,815.47	29.22	66.43	-149.97	420.62	-3,844.07	4,967.05	4,876.51	90.54	54.858		
11,800.00	11,748.68	12,206.14	9,815.49	29.39	66.40	-150.19	419.33	-3,844.07	5,006.01	4,915.70	90.31	55.431		
11,851.32	11,800.00	12,204.99	9,815.52	29.47	66.36	-90.41	418.18	-3,844.07	5,026.12	4,935.95	90.17	55.740		
11,900.00	11,848.68	12,203.75	9,815.54	29.56	66.33	-90.42	416.93	-3,844.07	5,045.43	4,955.40	90.04	56.036		
12,000.00	11,948.68	12,201.22	9,815.58	29.75	66.26	-90.45	414.41	-3,844.07	5,086.34	4,996.56	89.77	56.657		
12,100.00	12,048.68	12,198.74	9,815.62	29.94	66.19	-90.48	411.93	-3,844.07	5,128.86	5,039.36	89.50	57.306		
12,200.00	12,148.68	12,196.29	9,815.67	30.14	66.13	-90.51	409.48	-3,844.07	5,172.97	5,083.75	89.22	57.981		
12,300.00	12,248.68	12,193.87	9,815.71	30.33	66.06	-90.54	407.06	-3,844.07	5,218.62	5,129.69	88.93	58.683		
12,392.36	12,341.04	12,191.67	9,815.74	30.51	66.00	-90.57	404.86	-3,844.07	5,262.12	5,173.46	88.66	59.353		
12,400.00	12,348.68	12,191.42	9,815.75	30.52	66.00	-89.01	404.61	-3,844.07	5,265.77	5,177.14	88.63	59.411		
12,450.00	12,398.58	12,186.27	9,815.83	30.59	65.86	-86.20	399.47	-3,844.06	5,289.83	5,201.46	88.37	59.862		
12,500.00	12,448.05	12,175.14	9,816.02	30.65	65.55	-83.32	388.33	-3,844.04	5,313.98	5,226.03	87.95	60.423		
12,550.00	12,496.70	12,158.16	9,816.28	30.70	65.09	-80.41	371.35	-3,843.99	5,338.02	5,250.64	87.38	61.091		
12,600.00	12,544.16	12,135.52	9,816.61	30.73	64.48	-77.51	348.72	-3,843.88	5,361.73	5,275.06	86.67	61.865		
12,650.00	12,590.08	12,114.90	9,816.88	30.75	63.93	-74.75	328.10	-3,843.74	5,384.90	5,298.89	86.01	62.607		
12,700.00	12,634.11	12,095.92	9,817.04	30.76	63.42	-72.16	309.12	-3,843.58	5,407.33	5,321.94	85.40	63.320		
12,750.00	12,675.90	12,074.35	9,817.12	30.75	62.85	-69.70	287.55	-3,843.35	5,428.84	5,344.12	84.72	64.076		
12,800.00	12,715.15	12,050.37	9,817.07	30.74	62.21	-67.42	263.57	-3,843.05	5,449.24	5,365.23	84.00	64.869		
12,850.00	12,751.55	12,031.00	9,816.93	30.73	61.70	-65.38	244.21	-3,842.77	5,468.34	5,384.94	83.40	65.571		
12,900.00	12,784.82	12,007.36	9,816.62	30.70	61.11	-63.51	220.57	-3,842.42	5,486.00	5,403.27	82.73	66.311		
12,950.00	12,814.72	11,987.03	9,816.25	30.68	60.60	-61.87	200.25	-3,842.13	5,502.10	5,419.95	82.15	66.975		
13,000.00	12,841.01	11,965.57	9,815.74	30.65	60.06	-60.44	178.79	-3,841.85	5,516.50	5,434.93	81.56	67.634		
13,050.00	12,863.50	11,936.00	9,814.84	30.62	59.32	-59.19	149.24	-3,841.49	5,529.09	5,448.26	80.82	68.409		
13,100.00	12,882.01	11,916.99	9,814.19	30.60	58.87	-58.19	130.24	-3,841.30	5,539.72	5,459.37	80.35	68.946		
13,150.00	12,896.40	11,888.71	9,813.25	30.59	58.20	-57.37	101.98	-3,841.12	5,548.31	5,468.59	79.71	69.603		
13,200.00	12,906.57	11,842.00	9,811.74	30.59	57.10	-56.74	55.29	-3,841.11	5,554.81	5,476.07	78.74	70.547		
13,250.00	12,912.43	11,842.00	9,811.74	30.61	57.10	-56.38	55.29	-3,841.11	5,559.05	5,480.33	78.72	70.622		
13,292.36	12,914.00	11,807.96	9,810.66	30.63	56.26	-56.20	21.27	-3,841.34	5,560.92	5,482.90	78.01	71.280		
13,300.00	12,914.00	11,803.77	9,810.52	30.64	56.16	-56.20	17.08	-3,841.38	5,561.12	5,483.19	77.93	71.360		
13,400.00	12,914.00	11,517.14	9,806.43	30.78	49.34	-56.18	-269.45	-3,843.14	5,563.07	5,490.74	72.33	76.910		
13,500.00	12,914.00	11,433.94	9,807.74	31.01	47.51	-56.19	-352.65	-3,843.50	5,562.54	5,491.56	70.98	78.368		
13,590.98	12,914.00	11,366.00	9,808.87	31.31	46.04	-56.20	-420.58	-3,843.93	5,562.22	5,492.24	69.97	79.491		
13,600.00	12,914.00	11,366.00	9,808.87	31.35	46.04	-56.20	-420.58	-3,843.93	5,562.22	5,492.23	69.99	79.469		
13,700.00	12,914.00	11,312.19	9,809.72	31.78	44.69	-56.21	-474.37	-3,844.68	5,562.65	5,493.48	69.17	80.419		

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

LEAM Drilling Systems LLC

Anticollision Report

Company: Devon Energy
Project: Lea County, NM (NAD-83)
Reference Site: Fighting Okra 18-19 Fed
Site Error: 0.00 usft
Reference Well: 85H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Plan #1

Local Co-ordinate Reference: Well 85H
TVD Reference: 3369.1' GE + 25' KB @ 3394.10usft
MD Reference: 3369.1' GE + 25' KB @ 3394.10usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM 5000.1 Multi User Db
Offset TVD Reference: Offset Datum

Offset Design Fighting Okra 18-19 Fed - Fighting Okra Fed Com 1H (offset) - OH - OH												Offset Site Error: 0.00 usft	
Survey Program: 119- VES GyroFlex V2. 9389-MWD-ISCWSA												Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis		Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)		Separation Factor
13,800.00	12,914.00	11,272.00	9,810.25	32.29	43.69	56.22	-514.55	-3,845.77	5,564.17	5,495.49	68.69	81.009	
13,900.00	12,914.00	11,178.00	9,810.48	32.89	41.35	56.24	-608.51	-3,848.30	5,566.28	5,499.12	67.16	82.884	
14,000.00	12,914.00	10,902.84	9,814.56	33.57	35.55	56.30	-883.58	-3,852.35	5,566.32	5,503.41	62.91	88.480	
14,100.00	12,914.00	10,616.41	9,827.77	34.31	28.25	56.41	-1,169.67	-3,850.99	5,562.80	5,505.27	57.53	96.694	
14,200.00	12,914.00	10,288.69	9,843.72	35.11	20.55	56.45	-1,496.56	-3,834.55	5,554.75	5,502.80	51.95	106.929	
14,300.00	12,914.00	10,232.00	9,845.65	35.97	18.88	56.44	-1,553.06	-3,830.47	5,546.81	5,495.55	51.26	108.203	
14,400.00	12,914.00	10,114.00	9,845.69	36.89	15.63	56.37	-1,670.40	-3,818.63	5,538.31	5,488.96	49.35	112.218	
14,500.00	12,914.00	10,083.00	9,842.81	37.85	14.71	56.32	-1,700.90	-3,813.99	5,530.95	5,481.60	49.36	112.059	
14,600.00	12,914.00	10,083.00	9,842.81	38.86	14.71	56.32	-1,700.90	-3,813.99	5,525.14	5,475.02	50.12	110.228	
14,700.00	12,914.00	10,051.00	9,837.56	39.91	13.76	56.25	-1,732.06	-3,808.95	5,520.90	5,470.73	50.17	110.045	
14,800.00	12,914.00	10,051.00	9,837.56	41.00	13.76	56.25	-1,732.06	-3,808.95	5,518.14	5,467.15	50.99	108.224	
14,900.00	12,914.00	10,051.00	9,837.56	42.12	13.76	56.25	-1,732.06	-3,808.95	5,517.19	5,465.37	51.83	106.456	
14,917.41	12,914.00	10,035.49	9,834.23	42.32	13.31	56.21	-1,747.01	-3,806.51	5,517.02	5,465.40	51.62	106.875	
15,000.00	12,914.00	10,019.00	9,830.11	43.28	12.83	56.16	-1,762.77	-3,803.99	5,517.62	5,465.67	51.95	106.208	
15,100.00	12,914.00	10,019.00	9,830.11	44.46	12.83	56.16	-1,762.77	-3,803.99	5,519.73	5,466.91	52.82	104.496	
15,200.00	12,914.00	10,004.52	9,826.02	45.68	12.42	56.11	-1,776.49	-3,801.82	5,523.50	5,470.11	53.38	103.467	
15,300.00	12,914.00	9,988.00	9,820.81	46.92	11.95	56.05	-1,791.98	-3,799.41	5,528.92	5,475.00	53.91	102.553	
15,400.00	12,914.00	9,988.00	9,820.81	48.18	11.95	56.05	-1,791.98	-3,799.41	5,535.92	5,481.11	54.81	100.997	
15,500.00	12,914.00	9,973.36	9,815.72	49.46	11.55	55.99	-1,805.55	-3,797.33	5,544.54	5,489.14	55.41	100.072	
15,600.00	12,914.00	9,957.00	9,809.50	50.77	11.10	55.93	-1,820.52	-3,795.09	5,554.84	5,498.87	55.97	99.251	
15,700.00	12,914.00	9,957.00	9,809.50	52.09	11.10	55.93	-1,820.52	-3,795.09	5,566.69	5,509.82	56.88	97.875	
15,800.00	12,914.00	9,957.00	9,809.50	53.43	11.10	55.93	-1,820.52	-3,795.09	5,580.31	5,522.53	57.78	96.579	
15,900.00	12,914.00	9,925.00	9,795.77	54.78	10.24	55.78	-1,849.11	-3,790.94	5,595.33	5,537.29	58.04	96.399	
16,000.00	12,914.00	9,925.00	9,795.77	56.15	10.24	55.78	-1,849.11	-3,790.94	5,611.94	5,552.99	58.94	95.209	
16,100.00	12,914.00	9,925.00	9,795.77	57.54	10.24	55.78	-1,849.11	-3,790.94	5,630.27	5,570.44	59.83	94.098	
16,200.00	12,914.00	9,894.00	9,780.62	58.94	9.45	55.63	-1,875.88	-3,787.15	5,650.07	5,589.93	60.14	93.948	
16,300.00	12,914.00	9,894.00	9,780.62	60.34	9.45	55.63	-1,875.88	-3,787.15	5,671.34	5,610.32	61.02	92.944	
16,400.00	12,914.00	9,894.00	9,780.62	61.76	9.45	55.63	-1,875.88	-3,787.15	5,694.28	5,632.39	61.88	92.015	
16,500.00	12,914.00	9,876.76	9,771.47	63.19	9.03	55.54	-1,890.36	-3,785.16	5,718.62	5,656.18	62.44	91.579	
16,600.00	12,914.00	9,862.00	9,763.25	64.63	8.67	55.46	-1,902.51	-3,783.55	5,744.58	5,681.54	63.04	91.128	
16,700.00	12,914.00	9,862.00	9,763.25	66.08	8.67	55.46	-1,902.51	-3,783.55	5,771.97	5,708.10	63.87	90.370	
16,800.00	12,914.00	9,862.00	9,763.25	67.54	8.67	55.46	-1,902.51	-3,783.55	5,800.95	5,736.26	64.69	89.678	
16,900.00	12,914.00	9,831.00	9,744.93	69.01	7.96	55.29	-1,927.34	-3,780.57	5,831.34	5,766.33	65.01	89.697	
17,000.00	12,914.00	9,831.00	9,744.93	70.48	7.96	55.29	-1,927.34	-3,780.57	5,863.02	5,797.21	65.80	89.099	
17,100.00	12,914.00	9,831.00	9,744.93	71.96	7.96	55.29	-1,927.34	-3,780.57	5,896.22	5,829.64	66.58	88.562	
17,200.00	12,914.00	9,831.00	9,744.93	73.44	7.96	55.29	-1,927.34	-3,780.57	5,930.93	5,863.59	67.33	88.082	
17,300.00	12,914.00	9,799.00	9,724.71	74.94	7.25	55.10	-1,952.01	-3,778.04	5,966.85	5,899.22	67.63	88.227	
17,400.00	12,914.00	9,799.00	9,724.71	76.43	7.25	55.10	-1,952.01	-3,778.04	6,004.07	5,935.70	68.36	87.830	
17,500.00	12,914.00	9,799.00	9,724.71	77.94	7.25	55.10	-1,952.01	-3,778.04	6,042.71	5,973.64	69.07	87.485	
17,600.00	12,914.00	9,768.00	9,704.02	79.45	6.60	54.91	-1,974.96	-3,775.70	6,082.54	6,013.15	69.38	87.669	
17,700.00	12,914.00	9,768.00	9,704.02	80.96	6.60	54.91	-1,974.96	-3,775.70	6,123.57	6,053.51	70.06	87.400	
17,800.00	12,914.00	9,753.14	9,693.71	82.48	6.32	54.82	-1,985.59	-3,774.47	6,165.84	6,095.28	70.57	87.376	
17,900.00	12,914.00	9,737.00	9,682.19	84.00	6.01	54.72	-1,996.81	-3,773.02	6,209.34	6,138.29	71.05	87.395	
18,000.00	12,914.00	9,737.00	9,682.19	85.53	6.01	54.72	-1,996.81	-3,773.02	6,254.00	6,182.31	71.69	87.242	
18,100.00	12,914.00	9,705.00	9,658.67	87.06	5.45	54.50	-2,018.26	-3,769.81	6,299.72	6,227.71	72.02	87.477	
18,200.00	12,914.00	9,691.67	9,648.68	88.59	5.23	54.41	-2,026.97	-3,768.36	6,346.51	6,273.99	72.52	87.519	
18,300.00	12,914.00	9,673.00	9,634.53	90.13	4.93	54.28	-2,038.97	-3,766.26	6,394.33	6,321.37	72.96	87.636	
18,400.00	12,914.00	9,673.00	9,634.53	91.67	4.93	54.28	-2,038.97	-3,766.26	6,443.26	6,369.72	73.55	87.609	
18,500.00	12,914.00	9,657.23	9,622.40	93.21	4.70	54.17	-2,048.89	-3,764.47	6,493.21	6,419.21	74.00	87.742	
18,600.00	12,914.00	9,642.00	9,610.48	94.76	4.49	54.06	-2,058.21	-3,762.77	6,544.30	6,469.84	74.46	87.893	
18,700.00	12,914.00	9,642.00	9,610.48	96.31	4.49	54.06	-2,058.21	-3,762.77	6,596.37	6,521.38	74.99	87.959	
18,800.00	12,914.00	9,642.00	9,610.48	97.86	4.49	54.06	-2,058.21	-3,762.77	6,649.54	6,574.03	75.51	88.058	

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

LEAM Drilling Systems LLC

Anticollision Report

Company: Devon Energy
 Project: Lea County, NM (NAD-83)
 Reference Site: Fighting Okra 18-19 Fed
 Site Error: 0.00 usft
 Reference Well: 85H
 Well Error: 0.00 usft
 Reference Wellbore: OH
 Reference Design: Plan #1

Local Co-ordinate Reference: Well 85H
 TVD Reference: 3369.1' GE + 25' KB @ 3394.10usft
 MD Reference: 3369.1' GE + 25' KB @ 3394.10usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Output errors are at: 2.00 sigma
 Database: EDM 5000.1 Multi User Db
 Offset TVD Reference: Offset Datum

Offset Design Fighting Okra 18-19 Fed - Fighting Okra Fed Com 1H (offset) - OH - OH												Offset Site Error:	0.00 usft
Survey Program: 119- VES GyroFloX V2, 9389-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)					
18,900.00	12,914.00	9,642.00	9,610.48	99.42	4.49	54.06	-2,058.21	-3,762.77	6,703.78	6,627.77	76.02	88.188	
19,000.00	12,914.00	9,625.03	9,596.92	100.98	4.30	53.93	-2,068.25	-3,760.91	6,758.84	6,682.42	76.42	88.439	
19,100.00	12,914.00	9,610.00	9,584.67	102.54	4.16	53.82	-2,076.80	-3,759.31	6,815.05	6,738.22	76.83	88.701	
19,200.00	12,914.00	9,610.00	9,584.67	104.10	4.16	53.82	-2,076.80	-3,759.31	6,872.08	6,794.78	77.30	88.907	
19,300.00	12,914.00	9,610.00	9,584.67	105.67	4.16	53.82	-2,076.80	-3,759.31	6,930.08	6,852.34	77.74	89.141	
19,400.00	12,914.00	9,610.00	9,584.67	107.23	4.16	53.82	-2,076.80	-3,759.31	6,989.03	6,910.85	78.18	89.400	
19,500.00	12,914.00	9,610.00	9,584.67	108.80	4.16	53.82	-2,076.80	-3,759.31	7,048.91	6,970.31	78.60	89.685	
19,600.00	12,914.00	9,594.70	9,571.97	110.37	4.05	53.71	-2,085.18	-3,757.74	7,109.50	7,030.54	78.96	90.042	
19,700.00	12,914.00	9,578.00	9,557.86	111.94	3.95	53.58	-2,093.96	-3,756.11	7,171.15	7,091.84	79.31	90.422	
19,800.00	12,914.00	9,578.00	9,557.86	113.52	3.95	53.58	-2,093.96	-3,756.11	7,233.43	7,153.73	79.69	90.767	
19,900.00	12,914.00	9,578.00	9,557.86	115.09	3.95	53.58	-2,093.96	-3,756.11	7,296.55	7,216.48	80.06	91.134	
20,000.00	12,914.00	9,578.00	9,557.86	116.67	3.95	53.58	-2,093.96	-3,756.11	7,360.48	7,280.06	80.42	91.521	
20,100.00	12,914.00	9,578.00	9,557.86	118.25	3.95	53.58	-2,093.96	-3,756.11	7,425.22	7,344.44	80.77	91.928	
20,200.00	12,914.00	9,578.00	9,557.86	119.83	3.95	53.58	-2,093.96	-3,756.11	7,490.72	7,409.62	81.11	92.354	
20,300.00	12,914.00	9,547.00	9,531.12	121.41	3.82	53.35	-2,109.37	-3,753.21	7,556.88	7,475.49	81.39	92.845	
20,400.00	12,914.00	9,547.00	9,531.12	123.00	3.82	53.35	-2,109.37	-3,753.21	7,623.68	7,541.97	81.71	93.301	
20,500.00	12,914.00	9,547.00	9,531.12	124.58	3.82	53.35	-2,109.37	-3,753.21	7,691.20	7,609.18	82.02	93.773	
20,600.00	12,914.00	9,547.00	9,531.12	126.17	3.82	53.35	-2,109.37	-3,753.21	7,759.42	7,677.11	82.32	94.262	
20,700.00	12,914.00	9,547.00	9,531.12	127.75	3.82	53.35	-2,109.37	-3,753.21	7,828.33	7,745.72	82.61	94.767	
20,800.00	12,914.00	9,547.00	9,531.12	129.34	3.82	53.35	-2,109.37	-3,753.21	7,897.89	7,815.01	82.88	95.287	
20,900.00	12,914.00	9,547.00	9,531.12	130.93	3.82	53.35	-2,109.37	-3,753.21	7,968.11	7,884.95	83.16	95.822	
21,000.00	12,914.00	9,530.54	9,516.65	132.52	3.77	53.22	-2,117.09	-3,751.76	8,038.73	7,955.32	83.41	96.372	
21,100.00	12,914.00	9,516.00	9,503.71	134.11	3.73	53.11	-2,123.61	-3,750.60	8,110.19	8,026.53	83.67	96.934	
21,200.00	12,914.00	9,516.00	9,503.71	135.71	3.73	53.11	-2,123.61	-3,750.60	8,182.08	8,098.17	83.91	97.505	
21,300.00	12,914.00	9,516.00	9,503.71	137.30	3.73	53.11	-2,123.61	-3,750.60	8,254.55	8,170.40	84.15	98.088	
21,400.00	12,914.00	9,516.00	9,503.71	138.90	3.73	53.11	-2,123.61	-3,750.60	8,327.59	8,243.21	84.39	98.684	
21,500.00	12,914.00	9,516.00	9,503.71	140.49	3.73	53.11	-2,123.61	-3,750.60	8,401.19	8,316.58	84.61	99.291	
21,600.00	12,914.00	9,516.00	9,503.71	142.09	3.73	53.11	-2,123.61	-3,750.60	8,475.33	8,390.50	84.83	99.909	
21,700.00	12,914.00	9,516.00	9,503.71	143.68	3.73	53.11	-2,123.61	-3,750.60	8,550.00	8,464.95	85.04	100.539	
21,800.00	12,914.00	9,516.00	9,503.71	145.28	3.73	53.11	-2,123.61	-3,750.60	8,625.17	8,539.93	85.25	101.178	
21,900.00	12,914.00	9,516.00	9,503.71	146.88	3.73	53.11	-2,123.61	-3,750.60	8,700.85	8,615.41	85.45	101.828	
22,000.00	12,914.00	9,516.00	9,503.71	148.48	3.73	53.11	-2,123.61	-3,750.60	8,777.02	8,691.38	85.64	102.487	
22,100.00	12,914.00	9,500.59	9,489.81	150.08	3.69	52.99	-2,130.17	-3,749.51	8,853.40	8,767.58	85.84	103.135	
22,200.00	12,914.00	9,484.00	9,474.63	151.68	3.65	52.86	-2,136.81	-3,748.58	8,930.65	8,844.61	86.04	103.794	
22,300.00	12,914.00	9,484.00	9,474.63	153.28	3.65	52.86	-2,136.81	-3,748.58	9,008.05	8,921.83	86.22	104.476	
22,400.00	12,914.00	9,484.00	9,474.63	154.89	3.65	52.86	-2,136.81	-3,748.58	9,085.90	8,999.51	86.40	105.167	
22,500.00	12,914.00	9,484.00	9,474.63	156.49	3.65	52.86	-2,136.81	-3,748.58	9,164.18	9,077.61	86.56	105.866	
22,600.00	12,914.00	9,484.00	9,474.63	158.09	3.65	52.86	-2,136.81	-3,748.58	9,242.87	9,156.15	86.73	106.572	
22,700.00	12,914.00	9,484.00	9,474.63	159.70	3.65	52.86	-2,136.81	-3,748.58	9,321.98	9,235.09	86.89	107.287	
22,800.00	12,914.00	9,484.00	9,474.63	161.30	3.65	52.86	-2,136.81	-3,748.58	9,401.48	9,314.44	87.04	108.008	
22,867.23	12,914.00	9,484.00	9,474.63	162.38	3.65	52.86	-2,136.81	-3,748.58	9,455.15	9,368.00	87.15	108.497	

LEAM Drilling Systems LLC

Anticollision Report

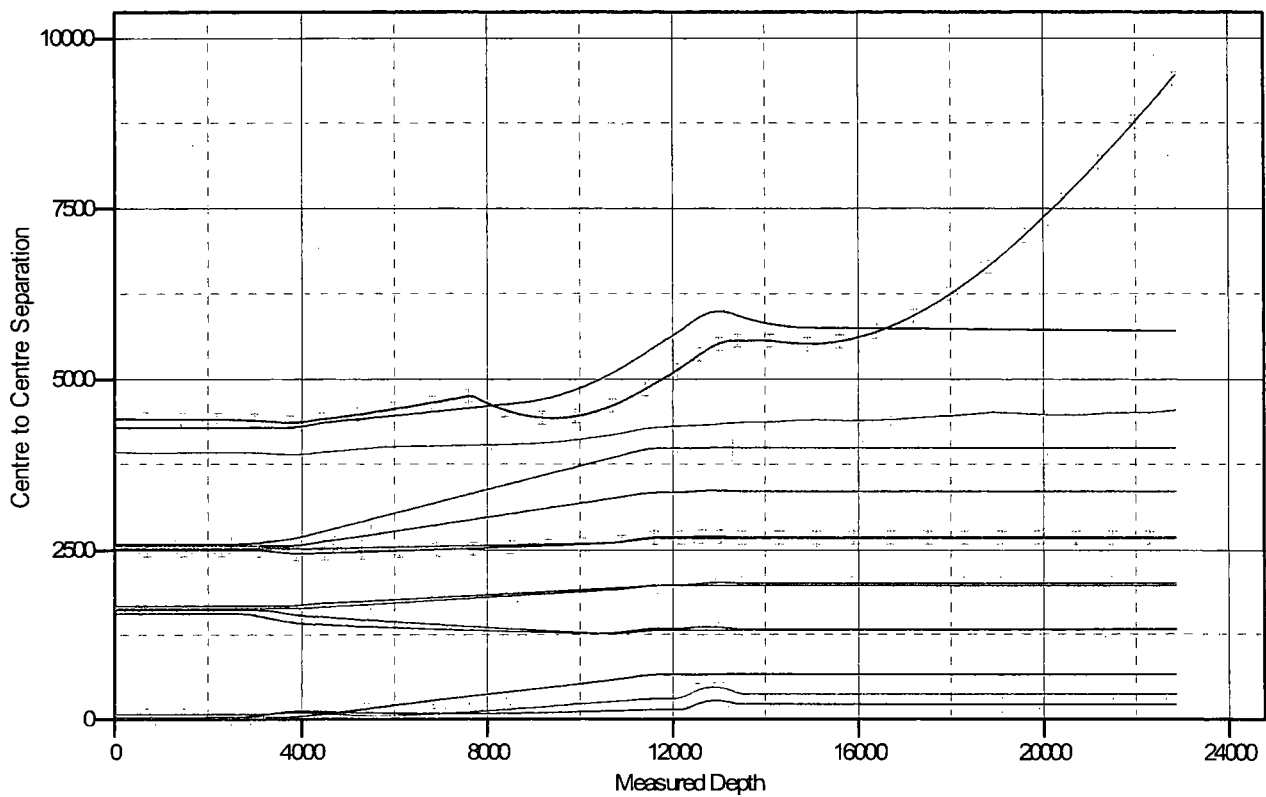
Company: Devon Energy
 Project: Lea County, NM (NAD-83)
 Reference Site: Fighting Okra 18-19 Fed
 Site Error: 0.00 usft
 Reference Well: 85H
 Well Error: 0.00 usft
 Reference Wellbore: OH
 Reference Design: Plan #1

Local Co-ordinate Reference: Well 85H
 TVD Reference: 3369.1' GE + 25' KB @ 3394.10usft
 MD Reference: 3369.1' GE + 25' KB @ 3394.10usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Output errors are at: 2.00 sigma
 Database: EDM 5000.1 Multi User Db
 Offset TVD Reference: Offset Datum

Reference Depths are relative to 3369.1' GE + 25' KB @ 3394.10usft
 Offset Depths are relative to Offset Datum
 Central Meridian is 104° 19' 60.0000 W

Coordinates are relative to: 85H
 Coordinate System is US State Plane 1983, New Mexico Eastern Zone
 Grid Convergence at Surface is: 0.44°

Ladder Plot



LEGEND

- | | | |
|---------------------|---------------------|--|
| 2H, OH, Plan #1 V0 | 41H, OH, Plan #1 V0 | 3H, OH, Plan #1 V0 |
| 15H, OH, Plan #1 V0 | 84H, OH, Plan #1 V0 | 4H, OH, Plan #1 V0 |
| 8H, OH, Plan #1 V0 | 5H, OH, Plan #1 V0 | Fighting Okra Fed Com 1H (offset), OH, OH V0 |
| 7H, OH, Plan #1 V0 | 14H, OH, Plan #1 V0 | 71H, OH, OH V0 |
| 86H, OH, Plan #1 V0 | 6H, OH, Plan #1 V0 | |

LEAM Drilling Systems LLC

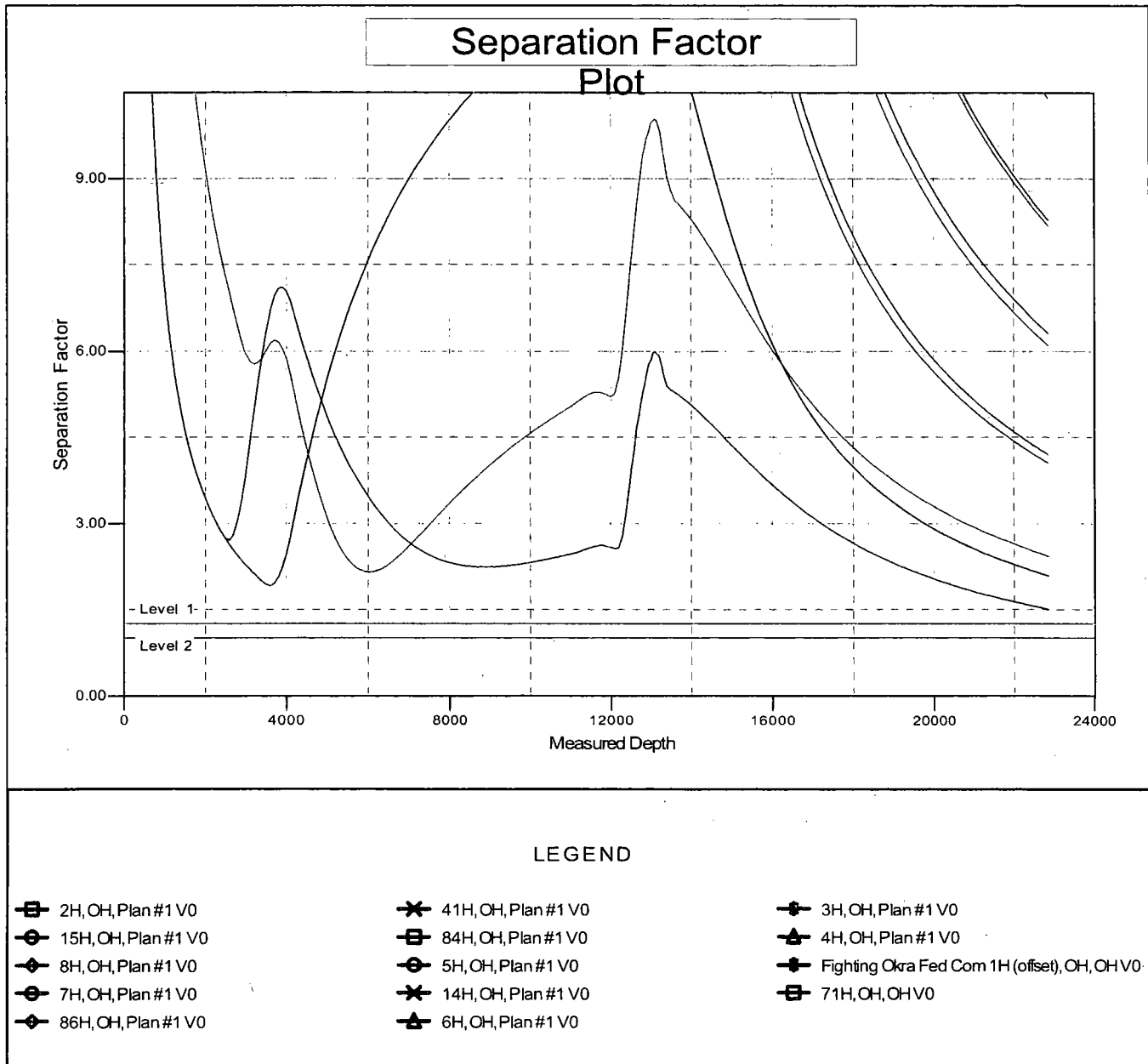
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MD Reference: 3369.1' GE + 25' KB @ 3394.10usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
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Offset TVD Reference: Offset Datum

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 Offset Depths are relative to Offset Datum
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CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation