



DEVON ENERGY

Lea County, NM (NAD-83)
Bell Lake 24 Fed
7H

OH
Plan #1

Anticollision Report

02 November, 2015



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LEAM Drilling Systems LLC

Anticollision Report



Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 7H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3554.2' GL + 25' RKB @ 3579.20usft
Reference Site:	Bell Lake 24 Fed	MD Reference:	3554.2' GL + 25' RKB @ 3579.20usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	7H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

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

Survey Tool Program		Date 11/2/2015		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	15,621.77	Plan #1 (OH)	LEAM MWD-ADJ	MWD - Standard

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Bell Lake 24 Fed						
3H (offset) - OH - OH	15,416.36	15,785.23	651.94	482.42	3.846	CC, ES
3H (offset) - OH - OH	15,500.00	15,793.00	655.95	484.83	3.833	SF

Bell Lake 24 Fed - 3H (offset) - OH - OH										Offset Site Error: 0.00 usft			
Survey Program: 140-VES GyroFlex V2, 4980-MWD-ISCWSA										Offset Well Error: 0.00 usft			
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-104.93	-203.41	-763.07	789.72				
100.00	100.00	103.88	103.88	0.08	0.08	-104.89	-202.87	-762.94	789.46	789.30	0.16	4,896.221	
200.00	200.00	205.73	205.72	0.31	0.18	-104.81	-201.56	-762.56	788.78	788.30	0.48	1,652.492	
300.00	300.00	305.81	305.79	0.53	0.26	-104.73	-200.39	-762.08	788.01	787.23	0.78	1,013.145	
400.00	400.00	405.51	405.49	0.76	0.32	-104.67	-199.34	-761.59	787.27	786.21	1.06	742.608	
500.00	500.00	505.87	505.84	0.98	0.37	-104.61	-198.44	-761.06	786.53	785.19	1.33	589.211	
600.00	600.00	605.04	605.00	1.21	0.42	-104.53	-197.20	-760.64	785.80	784.20	1.60	490.238	
700.00	700.00	704.65	704.60	1.43	0.47	-104.47	-196.13	-760.26	785.17	783.30	1.87	420.405	
800.00	800.00	804.19	804.13	1.66	0.52	-104.40	-195.07	-759.94	784.59	782.46	2.13	368.466	
900.00	900.00	902.47	902.41	1.88	0.56	-104.34	-194.22	-759.73	784.17	781.78	2.39	328.353	
1,000.00	1,000.00	1,005.40	1,005.34	2.11	0.60	-104.32	-193.86	-759.20	783.58	780.93	2.65	295.622	
1,100.00	1,100.00	1,102.85	1,102.79	2.33	0.63	-104.33	-193.78	-758.74	783.10	780.19	2.91	268.882	
1,200.00	1,200.00	1,204.53	1,204.47	2.56	0.66	-104.34	-193.82	-758.12	782.52	779.35	3.17	246.531	
1,300.00	1,300.00	1,302.24	1,302.17	2.78	0.68	-104.38	-194.28	-757.62	782.14	778.71	3.43	228.046	
1,400.00	1,400.00	1,403.13	1,403.06	3.01	0.70	-104.43	-194.81	-757.09	781.76	778.08	3.68	212.155	
1,500.00	1,500.00	1,502.13	1,502.06	3.23	0.73	-104.45	-195.00	-756.63	781.36	777.42	3.94	198.300	
1,600.00	1,600.00	1,601.30	1,601.23	3.46	0.75	-104.51	-195.68	-756.29	781.20	777.00	4.19	186.389	
1,700.00	1,700.00	1,701.57	1,701.50	3.68	0.77	-104.56	-196.39	-755.85	780.95	776.51	4.44	175.893	
1,800.00	1,800.00	1,800.19	1,800.11	3.91	0.78	-104.61	-196.89	-755.58	780.82	776.13	4.69	166.599	
1,900.00	1,900.00	1,902.98	1,902.90	4.13	0.81	-104.66	-197.57	-755.29	780.71	775.78	4.93	158.201	
2,000.00	2,000.00	2,002.07	2,001.98	4.35	0.83	-104.70	-197.94	-754.71	780.24	775.06	5.18	150.485	
2,057.07	2,057.07	2,056.96	2,056.87	4.48	0.84	-104.72	-198.20	-754.56	780.16	774.84	5.32	146.517	
2,100.00	2,100.00	2,098.29	2,098.21	4.58	0.85	-104.74	-198.47	-754.54	780.21	774.78	5.43	143.739	
2,200.00	2,200.00	2,199.96	2,199.88	4.80	0.87	-104.79	-199.23	-754.54	780.40	774.73	5.67	137.675	
2,300.00	2,300.00	2,301.72	2,301.63	5.03	0.89	-104.82	-199.63	-754.28	780.25	774.33	5.92	131.868	

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



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Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore:	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Bell Lake 24 Fed - 3H (offset) - OH - OH												Offset Site Error:	0.00 usft
Survey Program: 140-VES GyroFlex V2: 4980-MWD-ISCWSA												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	-E/+W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
2,388.85	2,388.85	2,388.74	2,388.65	5.23	0.91	-104.84	-199.74	-754.12	780.13	773.99	6.14	127.129	
2,400.00	2,400.00	2,399.80	2,399.51	5.25	0.92	-104.84	-199.77	-754.11	780.13	773.98	6.16	128.583	
2,500.00	2,500.00	2,500.10	2,500.01	5.48	0.94	-104.85	-200.00	-754.08	780.15	773.74	6.41	121.775	
2,512.78	2,512.78	2,512.67	2,512.58	5.51	0.94	-104.85	-200.01	-754.07	780.15	773.71	6.44	121.197	
2,600.00	2,600.00	2,597.97	2,597.88	5.70	0.96	-104.87	-200.22	-754.13	780.26	773.61	6.64	117.424	
2,700.00	2,700.00	2,698.48	2,698.39	5.93	0.97	-104.90	-200.83	-754.24	780.47	773.60	6.88	113.484	
2,800.00	2,800.00	2,799.41	2,799.32	6.15	0.98	-104.91	-200.83	-754.30	780.58	773.47	7.11	109.806	
2,900.00	2,900.00	2,898.87	2,898.78	6.38	1.00	-104.93	-201.18	-754.33	780.70	773.35	7.34	106.333	
3,000.00	3,000.00	3,001.08	3,000.99	6.60	1.02	-104.98	-201.75	-754.20	780.72	773.14	7.58	102.974	
3,100.00	3,100.00	3,102.97	3,102.87	6.83	1.05	-105.02	-202.28	-753.66	780.34	772.51	7.83	99.709	
3,200.00	3,200.00	3,201.87	3,201.77	7.05	1.07	-105.07	-202.87	-753.25	780.09	772.02	8.07	96.661	
3,300.00	3,300.00	3,303.32	3,303.22	7.28	1.10	-105.12	-203.37	-752.73	779.72	771.41	8.32	93.761	
3,400.00	3,400.00	3,402.51	3,402.40	7.50	1.13	-105.16	-203.83	-752.16	779.29	770.73	8.56	91.021	
3,500.00	3,500.00	3,502.32	3,502.22	7.73	1.16	-105.22	-204.57	-751.69	779.03	770.23	8.81	88.472	
3,600.00	3,600.00	3,603.02	3,602.90	7.95	1.19	-105.28	-205.21	-751.12	778.66	769.61	9.05	86.044	
3,700.00	3,700.00	3,702.88	3,702.77	8.18	1.22	-105.35	-205.97	-750.50	778.26	768.97	9.29	83.745	
3,800.00	3,800.00	3,802.44	3,802.31	8.40	1.25	-105.41	-206.71	-749.93	777.90	768.37	9.54	81.573	
3,900.00	3,900.00	3,902.64	3,902.52	8.63	1.28	-105.46	-207.30	-749.43	777.58	767.80	9.78	79.505	
4,000.00	4,000.00	4,002.55	4,002.43	8.85	1.32	-105.51	-207.78	-748.93	777.23	767.20	10.02	77.530	
4,100.00	4,100.00	4,099.94	4,099.81	9.07	1.34	-105.56	-208.45	-748.56	777.04	766.77	10.27	75.696	
4,200.00	4,200.00	4,200.74	4,200.60	9.30	1.37	-105.63	-209.34	-748.28	777.01	766.51	10.50	73.978	
4,300.00	4,300.00	4,308.45	4,308.31	9.52	1.41	-105.71	-210.27	-747.34	776.40	765.66	10.75	72.242	
4,400.00	4,400.00	4,412.79	4,412.62	9.75	1.44	-105.83	-211.42	-745.49	774.99	764.00	10.99	70.487	
4,500.00	4,500.00	4,514.26	4,514.06	9.97	1.47	-105.99	-212.96	-743.20	773.24	762.00	11.24	68.786	
4,600.00	4,600.00	4,615.47	4,615.21	10.20	1.50	-106.20	-215.10	-740.55	771.31	759.83	11.49	67.151	
4,700.00	4,700.00	4,716.01	4,715.67	10.42	1.54	-106.44	-217.70	-737.66	769.27	757.54	11.73	65.580	
4,800.00	4,800.00	4,816.02	4,815.61	10.65	1.57	-106.69	-220.30	-734.72	767.20	755.23	11.97	64.073	
4,900.00	4,900.00	4,915.43	4,914.94	10.87	1.60	-106.93	-222.76	-731.87	765.17	752.95	12.22	62.602	
5,000.00	5,000.00	5,012.00	5,011.46	11.10	1.62	-107.13	-224.79	-729.29	763.24	750.76	12.48	61.179	
5,100.00	5,100.00	5,106.00	5,105.42	11.32	1.65	-107.33	-227.03	-727.60	762.22	749.47	12.74	59.815	
5,124.27	5,124.27	5,124.29	5,123.70	11.38	1.66	-107.37	-227.55	-727.44	762.20	749.39	12.81	59.493	
5,200.00	5,200.00	5,197.55	5,196.93	11.55	1.71	-107.53	-229.80	-726.96	762.36	749.32	13.04	58.474	
5,300.00	5,300.00	5,295.22	5,294.57	11.77	1.80	-107.71	-232.04	-726.73	762.89	749.53	13.36	57.083	
5,400.00	5,400.00	5,395.20	5,394.52	12.00	1.91	-107.85	-234.05	-726.80	763.57	749.86	13.72	55.667	
5,500.00	5,500.00	5,493.30	5,492.61	12.22	2.03	-107.97	-235.80	-727.09	764.40	750.32	14.08	54.286	
5,600.00	5,600.00	5,593.33	5,592.62	12.45	2.17	-108.10	-237.77	-727.41	765.31	750.86	14.45	52.967	
5,700.00	5,700.00	5,690.94	5,690.20	12.67	2.30	-108.25	-240.04	-727.81	766.44	751.81	14.82	51.705	
5,800.00	5,800.00	5,790.39	5,789.62	12.90	2.46	-108.41	-242.45	-728.34	767.70	752.48	15.22	50.442	
5,900.00	5,900.00	5,888.89	5,888.10	13.12	2.64	-108.55	-244.67	-729.09	769.14	753.52	15.63	49.224	
6,000.00	6,000.00	5,988.66	5,987.84	13.35	2.82	-108.67	-246.73	-730.04	770.70	754.66	16.04	48.057	
6,100.00	6,100.00	6,088.93	6,088.09	13.57	3.00	-108.78	-248.64	-731.00	772.21	755.76	16.45	46.942	
6,200.00	6,200.00	6,187.98	6,187.11	13.80	3.18	-108.88	-250.37	-732.04	773.78	756.91	16.87	45.879	
6,300.00	6,300.00	6,287.23	6,286.34	14.02	3.37	-108.98	-252.13	-733.23	775.49	758.20	17.28	44.866	
6,400.00	6,400.00	6,388.83	6,387.92	14.24	3.57	-109.07	-253.93	-734.42	777.17	759.47	17.70	43.900	
6,500.00	6,500.00	6,491.43	6,490.49	14.47	3.75	-109.21	-256.12	-735.13	778.52	760.41	18.12	42.978	
6,600.00	6,600.00	6,589.46	6,588.50	14.69	3.94	-109.34	-258.16	-735.70	779.76	761.23	18.53	42.087	
6,700.00	6,700.00	6,689.10	6,688.11	14.92	4.13	-109.48	-260.55	-736.48	781.30	762.35	18.95	41.234	
6,800.00	6,800.00	6,789.02	6,787.98	15.14	4.32	-109.69	-263.73	-736.93	782.79	763.42	19.36	40.423	
6,900.00	6,900.00	6,888.23	6,887.13	15.37	4.51	-109.91	-267.10	-737.35	784.34	764.56	19.78	39.645	
7,000.00	7,000.00	6,986.00	6,984.84	15.59	4.71	-110.14	-270.57	-737.91	786.09	765.88	20.21	38.895	
7,100.00	7,100.00	7,084.35	7,083.11	15.82	4.92	-110.36	-274.11	-738.71	788.11	767.46	20.65	38.171	
7,200.00	7,200.00	7,182.84	7,181.54	16.04	5.13	-110.58	-277.70	-739.70	790.32	769.24	21.08	37.485	

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Survey Program: 140-VES GyroFlex V2.4880-MWD-ISCWSA													Offset Well Error: 0.00 usft
Reference	Offset	Semi Major Axis		Distance		Warning							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre ±N/S (usft)	±E/W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
7,300.00	7,300.00	7,283.43	7,282.06	16.27	5.34	-110.80	-281.38	-740.78	792.62	771.10	21.52	36.833	
7,400.00	7,400.00	7,388.47	7,387.01	16.49	5.55	-111.06	-285.41	-741.33	794.48	772.52	21.98	36.185	
7,500.00	7,500.00	7,487.71	7,486.18	16.72	5.76	-111.31	-289.35	-741.58	796.15	773.76	22.39	35.558	
7,600.00	7,600.00	7,587.93	7,586.32	16.94	5.97	-111.57	-293.28	-741.89	797.87	775.04	22.83	34.943	
7,700.00	7,700.00	7,689.06	7,687.38	17.17	6.19	-111.82	-297.09	-742.12	799.48	776.20	23.27	34.353	
7,800.00	7,800.00	7,789.25	7,787.50	17.39	6.40	-112.05	-300.73	-742.31	801.01	777.30	23.71	33.785	
7,900.00	7,900.00	7,889.14	7,887.33	17.62	6.61	-112.28	-304.25	-742.55	802.56	778.41	24.15	33.232	
8,000.00	8,000.00	7,989.83	7,987.96	17.84	6.83	-112.49	-307.51	-742.87	804.09	779.50	24.59	32.700	
8,100.00	8,100.00	8,090.65	8,088.73	18.07	7.04	-112.69	-310.70	-743.09	805.50	780.48	25.02	32.190	
8,200.00	8,200.00	8,190.43	8,188.47	18.29	7.24	-112.89	-313.86	-743.24	806.88	781.42	25.45	31.699	
8,300.00	8,300.00	8,289.04	8,287.02	18.52	7.45	-113.11	-317.25	-743.39	808.35	782.47	25.89	31.228	
8,400.00	8,400.00	8,387.34	8,385.26	18.74	7.66	-113.32	-320.58	-743.76	810.04	783.72	26.32	30.773	
8,500.00	8,500.00	8,487.24	8,485.10	18.96	7.88	-113.53	-324.01	-744.27	811.87	785.11	26.76	30.340	
8,600.00	8,600.00	8,586.74	8,584.54	19.19	8.09	-113.73	-327.38	-744.78	813.70	786.51	27.19	29.922	
8,700.00	8,700.00	8,686.75	8,684.49	19.41	8.30	-113.93	-330.73	-745.28	815.48	787.85	27.64	29.508	
8,800.00	8,800.00	8,790.48	8,788.17	19.64	8.52	-114.13	-333.96	-745.54	817.01	788.93	28.07	29.106	
8,900.00	8,900.00	8,888.10	8,885.75	19.86	8.72	-114.32	-337.02	-745.86	818.59	790.08	28.50	28.720	
9,000.00	9,000.00	8,991.43	8,989.04	20.09	8.95	-114.47	-339.69	-746.30	820.05	791.10	28.95	28.327	
9,100.00	9,100.00	9,087.79	9,085.38	20.31	9.15	-114.57	-341.64	-747.08	821.62	792.24	29.38	27.965	
9,200.00	9,200.00	9,187.08	9,184.65	20.54	9.37	-114.63	-343.04	-748.32	823.34	793.52	29.82	27.613	
9,300.00	9,300.00	9,280.79	9,278.34	20.76	9.57	-114.64	-344.09	-750.18	825.61	795.37	30.24	27.303	
9,400.00	9,400.00	9,379.73	9,377.24	20.99	9.77	-114.65	-345.37	-752.52	828.30	797.63	30.67	27.011	
9,500.00	9,500.00	9,482.58	9,480.05	21.21	9.98	-114.71	-347.24	-754.64	830.93	799.84	31.09	26.723	
9,600.00	9,600.00	9,581.47	9,578.91	21.44	10.18	-114.78	-349.06	-756.11	833.05	801.53	31.52	26.431	
9,700.00	9,700.00	9,689.35	9,686.74	21.66	10.37	-114.85	-351.23	-758.34	836.38	804.46	31.93	26.197	
9,800.00	9,800.00	9,784.49	9,781.78	21.89	10.58	-114.92	-353.93	-761.61	840.69	808.34	32.35	25.984	
9,900.00	9,900.00	9,888.92	9,886.10	22.11	10.81	-114.99	-356.75	-765.42	845.14	812.34	32.80	25.765	
10,000.00	10,000.00	9,972.45	9,969.57	22.34	11.03	-115.00	-358.48	-768.59	848.62	815.37	33.24	25.529	
10,100.00	10,100.00	10,080.33	10,077.38	22.56	11.25	-115.06	-360.74	-771.67	852.12	818.44	33.69	25.296	
10,200.00	10,200.00	10,207.00	10,204.01	22.79	11.51	-115.23	-363.61	-771.62	853.01	818.84	34.17	24.966	
10,287.70	10,287.70	10,289.25	10,286.23	22.98	11.68	-115.37	-365.38	-770.37	852.63	818.09	34.54	24.688	
10,300.00	10,300.00	10,302.00	10,298.98	23.01	11.71	-115.40	-365.67	-770.27	852.66	818.07	34.59	24.650	
10,400.00	10,400.00	10,407.85	10,404.80	23.24	11.93	-115.56	-367.72	-769.03	852.44	817.40	35.04	24.328	
10,470.96	10,470.96	10,473.82	10,470.76	23.39	12.06	-115.62	-368.49	-768.45	852.23	816.90	35.34	24.117	
10,500.00	10,500.00	10,500.82	10,497.76	23.46	12.12	-115.63	-368.66	-768.41	852.27	816.81	35.46	24.035	
10,532.04	10,532.04	10,532.89	10,529.83	23.53	12.19	-115.63	-368.68	-768.51	852.38	816.78	35.60	23.945	
10,550.00	10,550.00	10,556.17	10,553.10	23.57	12.23	-114.06	-367.99	-768.85	852.49	816.82	35.67	23.897	
10,600.00	10,599.84	10,947.23	10,918.04	23.68	12.77	-109.91	-249.14	-737.65	842.28	805.92	36.36	23.163	
10,650.00	10,649.17	11,068.30	10,998.61	23.80	12.99	-106.85	-160.15	-726.14	823.86	787.20	36.66	22.474	
10,700.00	10,697.61	11,162.63	11,039.89	23.91	13.30	-103.72	-75.75	-721.29	804.15	767.10	37.05	21.704	
10,750.00	10,744.78	11,194.75	11,048.98	24.02	13.44	-103.62	-44.95	-721.19	786.50	749.25	37.25	21.114	
10,800.00	10,790.34	11,235.13	11,056.55	24.12	13.65	-102.69	-5.33	-722.41	771.33	733.80	37.53	20.551	
10,850.00	10,833.93	11,284.18	11,060.38	24.22	13.95	-100.89	43.49	-724.76	758.38	720.43	37.95	19.985	
10,900.00	10,875.22	11,319.48	11,060.15	24.33	14.18	-99.70	78.74	-726.63	747.73	709.43	38.31	19.520	
10,950.00	10,913.91	11,349.72	11,059.53	24.46	14.41	-98.65	108.93	-728.28	739.83	701.16	38.67	19.130	
11,000.00	10,949.68	11,382.12	11,058.83	24.60	14.67	-97.33	141.27	-730.09	734.53	695.42	39.10	18.784	
11,050.00	10,982.28	11,417.35	11,058.04	24.75	14.96	-95.79	176.43	-732.16	731.51	691.93	39.59	18.478	
11,100.00	11,011.45	11,459.05	11,057.05	24.93	15.32	-93.94	218.05	-734.66	730.35	690.17	40.18	18.176	
11,121.77	11,023.02	11,478.89	11,056.54	25.01	15.50	-93.09	237.84	-735.78	730.25	689.78	40.47	18.044	
11,150.00	11,036.97	11,505.29	11,055.82	25.12	15.74	-92.00	264.20	-737.21	730.40	689.55	40.84	17.883	
11,200.00	11,058.65	11,553.53	11,054.94	25.34	16.21	-90.22	312.36	-739.62	731.21	689.67	41.54	17.603	
11,250.00	11,078.32	11,604.78	11,055.23	25.58	16.70	-88.71	363.56	-741.92	732.35	690.08	42.27	17.325	

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



LEAM Drilling Systems LLC
Anticollision Report



Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 7H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3554.2' GL + 25' RKB @ 3579.20usft
Reference Site:	Bell Lake 24 Fed	MD Reference:	3554.2' GL + 25' RKB @ 3579.20usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	7H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

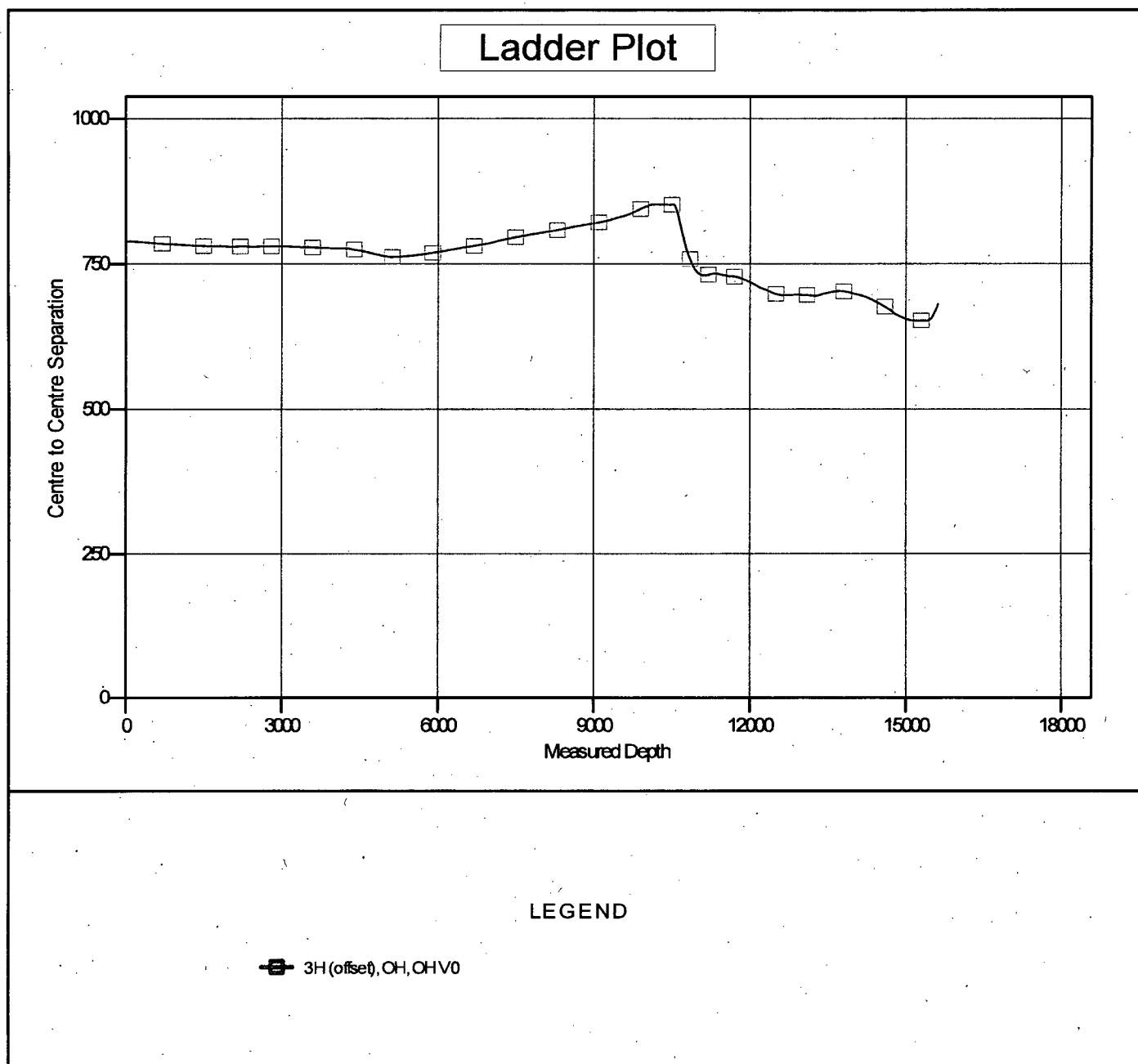
Offset Design Bell Lake 24 Fed - 3H (offset) - OH - OH														Offset Site Error
Survey Program: 140-VES GyroFlex V2: 4880-MWD-ISCWSA														0.00 usft
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (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		
11,300.00	11,089.85	11,662.87	11,056.64	25.85	17.30	-87.50	421.60	-743.98	733.23	690.06	43.18	16.982		
11,350.00	11,099.14	11,721.89	11,058.88	26.14	17.95	-86.80	480.58	-745.32	733.41	689.23	44.19	16.599		
11,400.00	11,104.10	11,780.96	11,062.04	26.45	18.64	-86.65	539.54	-746.97	732.77	687.59	45.18	16.220		
11,432.04	11,105.00	11,813.84	11,064.15	26.66	19.04	-86.82	572.35	-746.09	731.96	686.22	45.75	16.000		
11,500.00	11,105.00	11,878.54	11,068.29	27.14	19.86	-87.13	636.92	-746.49	730.35	683.40	46.95	15.554		
11,600.00	11,105.00	11,969.85	11,072.88	27.94	21.09	-87.49	728.10	-747.71	728.79	679.80	48.99	14.876		
11,700.00	11,105.00	12,067.35	11,074.73	28.83	22.48	-87.63	825.56	-749.69	728.08	676.81	51.28	14.199		
11,800.00	11,105.00	12,183.57	11,074.01	29.80	24.17	-87.57	941.77	-750.83	726.43	672.49	53.94	13.468		
11,900.00	11,105.00	12,291.42	11,072.53	30.86	25.76	-87.44	1,049.61	-749.86	722.92	666.34	56.58	12.778		
12,000.00	11,105.00	12,393.86	11,070.63	31.99	27.32	-87.27	1,152.02	-748.42	718.95	659.70	59.25	12.134		
12,100.00	11,105.00	12,501.20	11,069.07	33.17	28.96	-87.13	1,259.31	-746.06	714.16	652.10	62.07	11.507		
12,200.00	11,105.00	12,593.55	11,068.21	34.42	30.36	-87.04	1,351.63	-743.61	708.94	644.23	64.71	10.956		
12,300.00	11,105.00	12,687.82	11,068.51	35.72	31.80	-87.05	1,445.89	-743.10	705.69	638.26	67.44	10.465		
12,400.00	11,105.00	12,792.08	11,068.84	37.06	33.41	-87.06	1,550.15	-741.63	701.60	631.21	70.38	9.968		
12,500.00	11,105.00	12,884.24	11,069.49	38.44	34.84	-87.10	1,642.30	-740.79	698.00	624.80	73.20	9.535		
12,600.00	11,105.00	12,969.26	11,069.19	39.86	36.20	-87.07	1,727.31	-741.28	695.97	620.00	75.97	9.161		
12,626.56	11,105.00	12,990.69	11,068.87	40.25	36.55	-87.04	1,748.73	-741.75	695.86	619.15	76.70	9.072		
12,700.00	11,105.00	13,062.30	11,067.15	41.31	37.72	-86.90	1,820.29	-743.95	696.25	617.32	78.93	8.821		
12,785.98	11,105.00	13,149.79	11,064.29	42.59	39.16	-86.66	1,907.71	-745.83	695.95	614.33	81.62	8.526		
12,800.00	11,105.00	13,161.83	11,063.81	42.80	39.36	-86.62	1,919.74	-746.14	695.97	613.94	82.03	8.485		
12,900.00	11,105.00	13,261.29	11,058.79	44.31	41.00	-86.21	2,019.02	-749.34	696.85	611.70	85.15	8.184		
13,000.00	11,105.00	13,366.63	11,052.29	45.84	42.73	-85.68	2,124.14	-751.39	696.56	608.21	88.35	7.884		
13,100.00	11,105.00	13,470.28	11,047.58	47.39	44.41	-85.28	2,227.66	-753.26	696.07	604.52	91.54	7.604		
13,200.00	11,105.00	13,573.55	11,043.79	48.96	46.10	-84.96	2,330.85	-754.51	694.93	600.17	94.76	7.334		
13,251.01	11,105.00	13,615.37	11,043.23	49.78	46.78	-84.91	2,372.65	-755.19	694.49	598.25	96.24	7.216		
13,300.00	11,105.00	13,651.68	11,043.13	50.56	47.37	-84.91	2,408.95	-756.48	694.94	597.34	97.60	7.120		
13,400.00	11,105.00	13,745.00	11,044.14	52.16	48.89	-85.01	2,502.11	-761.80	697.82	597.09	100.73	6.928		
13,500.00	11,105.00	13,850.05	11,046.65	53.79	50.62	-85.23	2,606.98	-767.30	700.19	596.08	104.11	6.726		
13,600.00	11,105.00	13,954.20	11,050.02	55.42	52.37	-85.52	2,710.96	-772.20	701.96	594.45	107.51	6.529		
13,700.00	11,105.00	14,060.18	11,051.45	57.07	54.17	-85.65	2,816.84	-776.27	703.04	592.08	110.97	6.336		
13,800.00	11,105.00	14,175.29	11,050.57	58.73	56.13	-85.57	2,931.92	-778.73	702.57	588.00	114.57	6.132		
13,900.00	11,105.00	14,276.50	11,050.73	60.39	57.82	-85.58	3,033.12	-779.85	701.01	583.09	117.92	5.945		
14,000.00	11,105.00	14,380.40	11,051.70	62.07	59.56	-85.64	3,137.02	-780.52	698.92	577.58	121.34	5.760		
14,100.00	11,105.00	14,481.20	11,052.59	63.76	61.26	-85.70	3,237.82	-781.07	696.75	572.02	124.72	5.586		
14,200.00	11,105.00	14,585.99	11,053.51	65.45	63.03	-85.76	3,342.60	-780.95	693.91	565.72	128.19	5.413		
14,300.00	11,105.00	14,694.50	11,054.63	67.16	64.87	-85.83	3,451.10	-780.20	690.51	558.78	131.73	5.242		
14,400.00	11,105.00	14,798.16	11,055.59	68.87	66.61	-85.88	3,554.73	-777.97	685.83	550.45	135.18	5.072		
14,500.00	11,105.00	14,896.57	11,056.79	70.58	68.23	-85.95	3,653.11	-776.01	680.90	542.38	138.52	4.916		
14,600.00	11,105.00	15,000.13	11,058.66	72.30	69.96	-86.08	3,756.63	-773.89	676.08	534.11	141.98	4.762		
14,700.00	11,105.00	15,108.33	11,061.50	74.03	71.80	-86.29	3,864.75	-770.71	670.32	524.76	145.56	4.605		
14,800.00	11,105.00	15,203.00	11,063.99	75.76	73.41	-86.47	3,959.33	-767.35	663.98	515.06	148.92	4.459		
14,900.00	11,105.00	15,288.53	11,065.31	77.50	74.84	-86.56	4,044.83	-765.51	659.14	507.04	152.10	4.334		
15,000.00	11,105.00	15,391.57	11,065.44	79.24	76.59	-86.56	4,147.86	-764.63	655.62	500.04	155.58	4.214		
15,100.00	11,105.00	15,476.74	11,065.34	80.99	78.02	-86.53	4,233.03	-764.48	652.80	494.05	158.75	4.112		
15,182.49	11,105.00	15,548.28	11,065.74	82.43	79.22	-86.57	4,304.54	-765.82	652.12	490.73	161.39	4.041		
15,200.00	11,105.00	15,563.49	11,065.84	82.74	79.47	-86.57	4,319.76	-766.26	652.15	490.20	161.95	4.027		
15,300.00	11,105.00	15,667.42	11,065.95	84.49	81.23	-86.59	4,423.64	-769.33	652.44	486.98	165.46	3.943		
15,400.00	11,105.00	15,768.87	11,065.00	86.24	82.98	-86.50	4,525.06	-771.54	652.02	483.07	168.95	3.859		
15,416.36	11,105.00	15,785.23	11,064.84	86.53	83.27	-86.49	4,541.41	-771.89	651.94	482.42	169.52	3.846 CC, ES		
15,500.00	11,105.00	15,793.00	11,064.76	88.00	83.40	-86.48	4,549.19	-772.05	655.95	484.83	171.12	3.833 SF		
15,600.00	11,105.00	15,793.00	11,064.76	89.77	83.40	-86.48	4,549.19	-772.05	674.40	501.53	172.88	3.901		
15,621.77	11,105.00	15,793.00	11,064.76	90.15	83.40	-86.48	4,549.19	-772.05	680.31	507.05	173.26	3.926		

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

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 7H
Project:	Lea County, NM, (NAD-83)	TVD Reference:	3554.2' GL + 25' RKB @ 3579.20usft
Reference Site:	Bell Lake 24 Fed	MD Reference:	3554.2' GL + 25' RKB @ 3579.20usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	7H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to 3554.2' GL + 25' RKB @ 3579.20usft
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: 7H
Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Grid Convergence at Surface is: 0.38°





Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 7H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3554.2' GL + 25' RKB @ 3579.20usft
Reference Site:	Bell Lake 24 Fed	MD Reference:	3554.2' GL + 25' RKB @ 3579.20usft
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Reference Wellbore:	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to 3554.2' GL + 25' RKB @ 3579.20usft

Coordinates are relative to: 7H

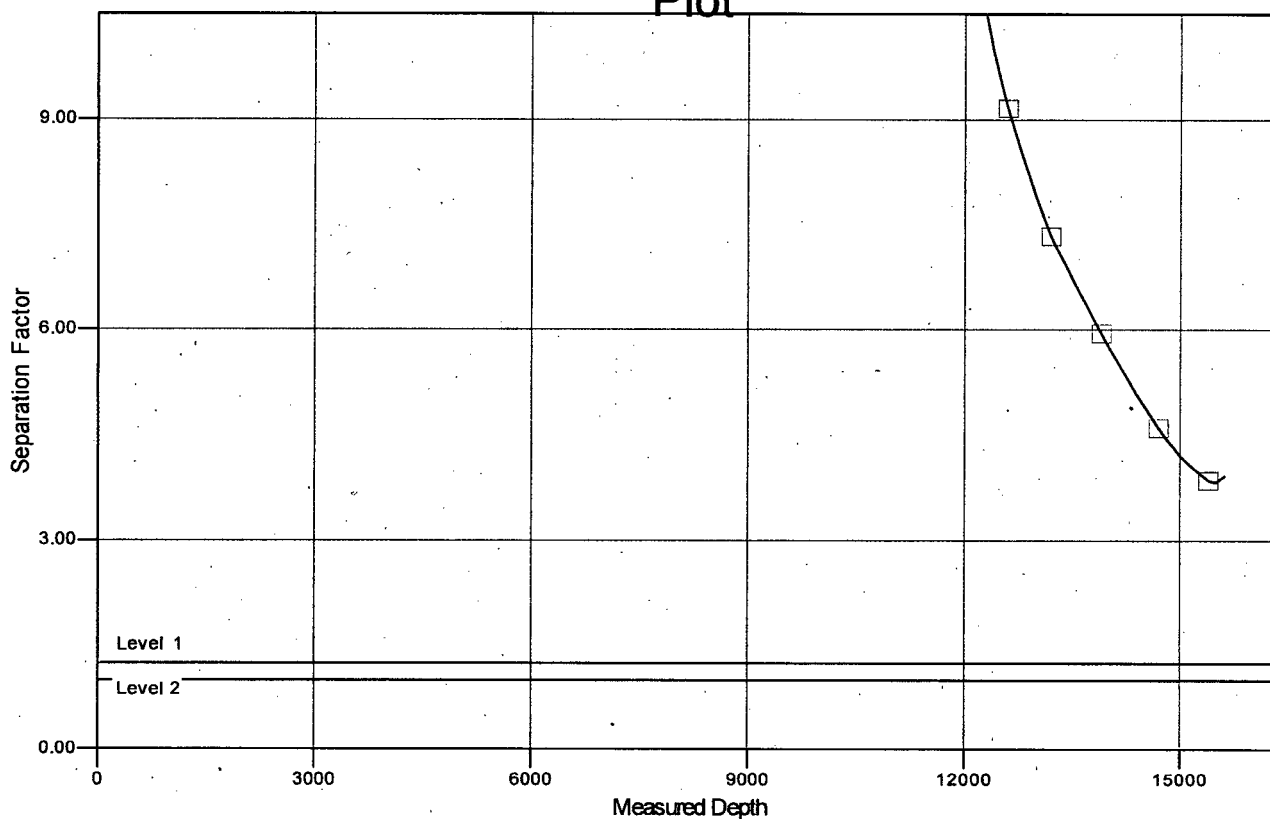
Offset Depths are relative to Offset Datum

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

Central Meridian is 104° 20' 0.000 W

Grid Convergence at Surface is: 0.38°

Separation Factor Plot



LEGEND

—□— 3H(offset), OH, OH V0