

DEVON ENERGY

Lea County, NM (NAD-83)

Thistle Unit

122H

OH

Plan: Plan #1

Standard Planning Report

09 September, 2015

HOBBS OCD

AUG 10 2016

RECEIVED

LEAM Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 122H
Company:	DEVON ENERGY	TVD Reference:	3726.5' GL + 23.5' RKB @ 3750.00usft (Original Well Elev)
Project:	Lea County, NM (NAD-83)	MD Reference:	3726.5' GL + 23.5' RKB @ 3750.00usft (Original Well Elev)
Site:	Thistle Unit	North Reference:	Grid
Well:	122H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Project	Lea County, NM (NAD-83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Thistle Unit			
Site Position:		Northing:	468,026.90 usft	Latitude: 32° 17' 3.494 N
From:	Map	Easting:	780,722.56 usft	Longitude: 103° 33' 31.335 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence: 0.41 °

Well	122H				
Well Position	+N/-S	4,494.48 usft	Northing:	472,521.38 usft	Latitude: 32° 17' 48.357 N
	+E/-W	-5,514.22 usft	Easting:	775,208.34 usft	Longitude: 103° 34' 35.197 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	3,750.00 usft	Ground Level: 3,726.50 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2015	9/9/2015	7.24	60.21	48,237

Design	Plan #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	179.58

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9,184.54	0.00	0.00	9,184.54	0.00	0.00	0.00	0.00	0.00	0.00	
9,934.54	90.00	171.80	9,662.01	-472.58	68.10	12.00	12.00	0.00	171.80	
10,453.09	90.00	179.58	9,662.00	-989.27	107.05	1.50	0.00	1.50	90.00	
17,087.86	90.00	179.58	9,662.00	-7,623.86	155.88	0.00	0.00	0.00	0.00	PBHL (TU 122H)

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Site:	Thistle Unit	North Reference:	Grid
Well:	122H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SHL (TU 122H)									
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,393.00	0.00	0.00	1,393.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler									
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,650.00	0.00	0.00	1,650.00	0.00	0.00	0.00	0.00	0.00	0.00
Top Salt									
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00

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4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,948.00	0.00	0.00	4,948.00	0.00	0.00	0.00	0.00	0.00	0.00
Base Salt									
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00
5,213.00	0.00	0.00	5,213.00	0.00	0.00	0.00	0.00	0.00	0.00
Delaware									
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00	0.00	0.00
5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.00	0.00	0.00
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00	0.00	0.00
5,900.00	0.00	0.00	5,900.00	0.00	0.00	0.00	0.00	0.00	0.00
6,000.00	0.00	0.00	6,000.00	0.00	0.00	0.00	0.00	0.00	0.00
6,100.00	0.00	0.00	6,100.00	0.00	0.00	0.00	0.00	0.00	0.00
6,174.00	0.00	0.00	6,174.00	0.00	0.00	0.00	0.00	0.00	0.00
Cherry Cyn									
6,200.00	0.00	0.00	6,200.00	0.00	0.00	0.00	0.00	0.00	0.00
6,300.00	0.00	0.00	6,300.00	0.00	0.00	0.00	0.00	0.00	0.00
6,400.00	0.00	0.00	6,400.00	0.00	0.00	0.00	0.00	0.00	0.00
6,500.00	0.00	0.00	6,500.00	0.00	0.00	0.00	0.00	0.00	0.00
6,600.00	0.00	0.00	6,600.00	0.00	0.00	0.00	0.00	0.00	0.00
6,700.00	0.00	0.00	6,700.00	0.00	0.00	0.00	0.00	0.00	0.00
6,800.00	0.00	0.00	6,800.00	0.00	0.00	0.00	0.00	0.00	0.00
6,900.00	0.00	0.00	6,900.00	0.00	0.00	0.00	0.00	0.00	0.00
7,000.00	0.00	0.00	7,000.00	0.00	0.00	0.00	0.00	0.00	0.00
7,100.00	0.00	0.00	7,100.00	0.00	0.00	0.00	0.00	0.00	0.00
7,200.00	0.00	0.00	7,200.00	0.00	0.00	0.00	0.00	0.00	0.00
7,300.00	0.00	0.00	7,300.00	0.00	0.00	0.00	0.00	0.00	0.00
7,400.00	0.00	0.00	7,400.00	0.00	0.00	0.00	0.00	0.00	0.00
7,500.00	0.00	0.00	7,500.00	0.00	0.00	0.00	0.00	0.00	0.00
7,600.00	0.00	0.00	7,600.00	0.00	0.00	0.00	0.00	0.00	0.00
7,700.00	0.00	0.00	7,700.00	0.00	0.00	0.00	0.00	0.00	0.00
7,800.00	0.00	0.00	7,800.00	0.00	0.00	0.00	0.00	0.00	0.00
7,900.00	0.00	0.00	7,900.00	0.00	0.00	0.00	0.00	0.00	0.00
8,000.00	0.00	0.00	8,000.00	0.00	0.00	0.00	0.00	0.00	0.00
8,100.00	0.00	0.00	8,100.00	0.00	0.00	0.00	0.00	0.00	0.00
8,200.00	0.00	0.00	8,200.00	0.00	0.00	0.00	0.00	0.00	0.00
8,300.00	0.00	0.00	8,300.00	0.00	0.00	0.00	0.00	0.00	0.00
8,400.00	0.00	0.00	8,400.00	0.00	0.00	0.00	0.00	0.00	0.00
8,500.00	0.00	0.00	8,500.00	0.00	0.00	0.00	0.00	0.00	0.00
8,600.00	0.00	0.00	8,600.00	0.00	0.00	0.00	0.00	0.00	0.00
8,700.00	0.00	0.00	8,700.00	0.00	0.00	0.00	0.00	0.00	0.00
8,800.00	0.00	0.00	8,800.00	0.00	0.00	0.00	0.00	0.00	0.00
8,861.00	0.00	0.00	8,861.00	0.00	0.00	0.00	0.00	0.00	0.00
Lwr Brushy									
8,900.00	0.00	0.00	8,900.00	0.00	0.00	0.00	0.00	0.00	0.00

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Site:	Thistle Unit	North Reference:	Grid
Well:	122H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,000.00	0.00	0.00	9,000.00	0.00	0.00	0.00	0.00	0.00	0.00
9,076.00	0.00	0.00	9,076.00	0.00	0.00	0.00	0.00	0.00	0.00
Bone Spring									
9,100.00	0.00	0.00	9,100.00	0.00	0.00	0.00	0.00	0.00	0.00
9,178.00	0.00	0.00	9,178.00	0.00	0.00	0.00	0.00	0.00	0.00
Mid Leonard									
9,184.54	0.00	0.00	9,184.54	0.00	0.00	0.00	0.00	0.00	0.00
KOP 12° DLS									
9,200.00	1.86	171.80	9,200.00	-0.25	0.04	0.25	12.00	12.00	0.00
9,225.00	4.86	171.80	9,224.95	-1.70	0.24	1.70	12.00	12.00	0.00
9,250.00	7.86	171.80	9,249.80	-4.43	0.64	4.44	12.00	12.00	0.00
9,275.00	10.86	171.80	9,274.46	-8.46	1.22	8.46	12.00	12.00	0.00
9,300.00	13.86	171.80	9,298.88	-13.75	1.98	13.76	12.00	12.00	0.00
9,325.00	16.86	171.80	9,322.98	-20.30	2.93	20.32	12.00	12.00	0.00
9,350.00	19.86	171.80	9,346.71	-28.09	4.05	28.12	12.00	12.00	0.00
9,375.00	22.86	171.80	9,369.99	-37.10	5.35	37.14	12.00	12.00	0.00
9,400.00	25.86	171.80	9,392.76	-47.31	6.82	47.35	12.00	12.00	0.00
9,425.00	28.86	171.80	9,414.96	-58.67	8.46	58.74	12.00	12.00	0.00
9,450.00	31.86	171.80	9,436.53	-71.18	10.26	71.25	12.00	12.00	0.00
9,475.00	34.86	171.80	9,457.41	-84.78	12.22	84.87	12.00	12.00	0.00
9,500.00	37.86	171.80	9,477.55	-99.45	14.33	99.55	12.00	12.00	0.00
9,525.00	40.86	171.80	9,496.87	-115.14	16.59	115.26	12.00	12.00	0.00
9,550.00	43.86	171.80	9,515.35	-131.81	18.99	131.94	12.00	12.00	0.00
9,575.00	46.86	171.80	9,532.91	-149.41	21.53	149.56	12.00	12.00	0.00
9,600.00	49.86	171.80	9,549.52	-167.90	24.19	168.07	12.00	12.00	0.00
9,625.00	52.86	171.80	9,565.13	-187.22	26.98	187.42	12.00	12.00	0.00
9,650.00	55.86	171.80	9,579.70	-207.33	29.88	207.54	12.00	12.00	0.00
9,675.00	58.86	171.80	9,593.18	-228.16	32.88	228.40	12.00	12.00	0.00
9,700.00	61.86	171.80	9,605.55	-249.67	35.98	249.92	12.00	12.00	0.00
9,725.00	64.86	171.80	9,616.76	-271.78	39.16	272.06	12.00	12.00	0.00
9,750.00	67.86	171.80	9,626.78	-294.44	42.43	294.75	12.00	12.00	0.00
9,775.00	70.86	171.80	9,635.60	-317.60	45.77	317.92	12.00	12.00	0.00
9,779.33	71.38	171.80	9,637.00	-321.65	46.35	321.99	12.00	12.00	0.00
Lnd B									
9,800.00	73.86	171.80	9,643.17	-341.17	49.16	341.53	12.00	12.00	0.00
9,825.00	76.86	171.80	9,649.49	-365.11	52.61	365.49	12.00	12.00	0.00
9,850.00	79.86	171.80	9,654.54	-389.34	56.11	389.75	12.00	12.00	0.00
9,875.00	82.86	171.80	9,658.30	-413.80	59.63	414.23	12.00	12.00	0.00
9,900.00	85.86	171.80	9,660.76	-438.43	63.18	438.88	12.00	12.00	0.00
9,925.00	88.86	171.80	9,661.91	-463.14	66.74	463.62	12.00	12.00	0.00
9,934.54	90.00	171.80	9,662.01	-472.58	68.10	473.07	12.00	12.00	0.00
LP / Turn									
10,000.00	90.00	172.78	9,662.01	-537.45	76.88	538.00	1.50	0.00	1.50
10,100.00	90.00	174.28	9,662.01	-636.81	88.15	637.44	1.50	0.00	1.50
10,200.00	90.00	175.78	9,662.00	-736.43	96.81	737.12	1.50	0.00	1.50
10,300.00	90.00	177.28	9,662.00	-836.25	102.85	836.98	1.50	0.00	1.50
10,400.00	90.00	178.78	9,662.00	-936.19	106.29	936.94	1.50	0.00	1.50
10,453.09	90.00	179.58	9,662.00	-989.27	107.05	990.03	1.50	0.00	1.50
Hold									
10,500.00	90.00	179.58	9,662.00	-1,036.18	107.39	1,036.94	0.00	0.00	0.00
10,600.00	90.00	179.58	9,662.00	-1,136.18	108.13	1,136.94	0.00	0.00	0.00

LEAM Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 122H
Company:	DEVON ENERGY	TVD Reference:	3726.5' GL + 23.5' RKB @ 3750.00usft (Original Well Elev)
Project:	Lea County, NM (NAD-83)	MD Reference:	3726.5' GL + 23.5' RKB @ 3750.00usft (Original Well Elev)
Site:	Thistle Unit	North Reference:	Grid
Well:	122H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,700.00	90.00	179.58	9,662.00	-1,236.17	108.87	1,236.94	0.00	0.00	0.00
10,800.00	90.00	179.58	9,662.00	-1,336.17	109.60	1,336.94	0.00	0.00	0.00
10,900.00	90.00	179.58	9,662.00	-1,436.17	110.34	1,436.94	0.00	0.00	0.00
11,000.00	90.00	179.58	9,662.00	-1,536.16	111.07	1,536.94	0.00	0.00	0.00
11,100.00	90.00	179.58	9,662.00	-1,636.16	111.81	1,636.94	0.00	0.00	0.00
11,200.00	90.00	179.58	9,662.00	-1,736.16	112.55	1,736.94	0.00	0.00	0.00
11,300.00	90.00	179.58	9,662.00	-1,836.16	113.28	1,836.94	0.00	0.00	0.00
11,400.00	90.00	179.58	9,662.00	-1,936.15	114.02	1,936.94	0.00	0.00	0.00
11,500.00	90.00	179.58	9,662.00	-2,036.15	114.75	2,036.94	0.00	0.00	0.00
11,600.00	90.00	179.58	9,662.00	-2,136.15	115.49	2,136.94	0.00	0.00	0.00
11,700.00	90.00	179.58	9,662.00	-2,236.15	116.23	2,236.94	0.00	0.00	0.00
11,800.00	90.00	179.58	9,662.00	-2,336.14	116.96	2,336.94	0.00	0.00	0.00
11,900.00	90.00	179.58	9,662.00	-2,436.14	117.70	2,436.94	0.00	0.00	0.00
12,000.00	90.00	179.58	9,662.00	-2,536.14	118.43	2,536.94	0.00	0.00	0.00
12,100.00	90.00	179.58	9,662.00	-2,636.13	119.17	2,636.94	0.00	0.00	0.00
12,200.00	90.00	179.58	9,662.00	-2,736.13	119.91	2,736.94	0.00	0.00	0.00
12,300.00	90.00	179.58	9,662.00	-2,836.13	120.64	2,836.94	0.00	0.00	0.00
12,400.00	90.00	179.58	9,662.00	-2,936.13	121.38	2,936.94	0.00	0.00	0.00
12,500.00	90.00	179.58	9,662.00	-3,036.12	122.11	3,036.94	0.00	0.00	0.00
12,600.00	90.00	179.58	9,662.00	-3,136.12	122.85	3,136.94	0.00	0.00	0.00
12,700.00	90.00	179.58	9,662.00	-3,236.12	123.59	3,236.94	0.00	0.00	0.00
12,800.00	90.00	179.58	9,662.00	-3,336.12	124.32	3,336.94	0.00	0.00	0.00
12,900.00	90.00	179.58	9,662.00	-3,436.11	125.06	3,436.94	0.00	0.00	0.00
13,000.00	90.00	179.58	9,662.00	-3,536.11	125.79	3,536.94	0.00	0.00	0.00
13,100.00	90.00	179.58	9,662.00	-3,636.11	126.53	3,636.94	0.00	0.00	0.00
13,200.00	90.00	179.58	9,662.00	-3,736.11	127.27	3,736.94	0.00	0.00	0.00
13,300.00	90.00	179.58	9,662.00	-3,836.10	128.00	3,836.94	0.00	0.00	0.00
13,400.00	90.00	179.58	9,662.00	-3,936.10	128.74	3,936.94	0.00	0.00	0.00
13,500.00	90.00	179.58	9,662.00	-4,036.10	129.47	4,036.94	0.00	0.00	0.00
13,600.00	90.00	179.58	9,662.00	-4,136.09	130.21	4,136.94	0.00	0.00	0.00
13,700.00	90.00	179.58	9,662.00	-4,236.09	130.95	4,236.94	0.00	0.00	0.00
13,800.00	90.00	179.58	9,662.00	-4,336.09	131.68	4,336.94	0.00	0.00	0.00
13,900.00	90.00	179.58	9,662.00	-4,436.09	132.42	4,436.94	0.00	0.00	0.00
14,000.00	90.00	179.58	9,662.00	-4,536.08	133.15	4,536.94	0.00	0.00	0.00
14,100.00	90.00	179.58	9,662.00	-4,636.08	133.89	4,636.94	0.00	0.00	0.00
14,200.00	90.00	179.58	9,662.00	-4,736.08	134.63	4,736.94	0.00	0.00	0.00
14,300.00	90.00	179.58	9,662.00	-4,836.08	135.36	4,836.94	0.00	0.00	0.00
14,400.00	90.00	179.58	9,662.00	-4,936.07	136.10	4,936.94	0.00	0.00	0.00
14,500.00	90.00	179.58	9,662.00	-5,036.07	136.83	5,036.94	0.00	0.00	0.00
14,600.00	90.00	179.58	9,662.00	-5,136.07	137.57	5,136.94	0.00	0.00	0.00
14,700.00	90.00	179.58	9,662.00	-5,236.06	138.31	5,236.94	0.00	0.00	0.00
14,800.00	90.00	179.58	9,662.00	-5,336.06	139.04	5,336.94	0.00	0.00	0.00
14,900.00	90.00	179.58	9,662.00	-5,436.06	139.78	5,436.94	0.00	0.00	0.00
15,000.00	90.00	179.58	9,662.00	-5,536.06	140.51	5,536.94	0.00	0.00	0.00
15,100.00	90.00	179.58	9,662.00	-5,636.05	141.25	5,636.94	0.00	0.00	0.00
15,200.00	90.00	179.58	9,662.00	-5,736.05	141.99	5,736.94	0.00	0.00	0.00
15,300.00	90.00	179.58	9,662.00	-5,836.05	142.72	5,836.94	0.00	0.00	0.00
15,400.00	90.00	179.58	9,662.00	-5,936.05	143.46	5,936.94	0.00	0.00	0.00
15,500.00	90.00	179.58	9,662.00	-6,036.04	144.19	6,036.94	0.00	0.00	0.00
15,600.00	90.00	179.58	9,662.00	-6,136.04	144.93	6,136.94	0.00	0.00	0.00
15,700.00	90.00	179.58	9,662.00	-6,236.04	145.67	6,236.94	0.00	0.00	0.00
15,800.00	90.00	179.58	9,662.00	-6,336.03	146.40	6,336.94	0.00	0.00	0.00

LEAM Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 122H
Company:	DEVON ENERGY	TVD Reference:	3726.5' GL + 23.5' RKB @ 3750.00usft (Original Well Elev)
Project:	Lea County, NM (NAD-83)	MD Reference:	3726.5' GL + 23.5' RKB @ 3750.00usft (Original Well Elev)
Site:	Thistle Unit	North Reference:	Grid
Well:	122H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
15,900.00	90.00	179.58	9,662.00	-6,436.03	147.14	6,436.94	0.00	0.00	0.00
16,000.00	90.00	179.58	9,662.00	-6,536.03	147.87	6,536.94	0.00	0.00	0.00
16,100.00	90.00	179.58	9,662.00	-6,636.03	148.61	6,636.94	0.00	0.00	0.00
16,200.00	90.00	179.58	9,662.00	-6,736.02	149.35	6,736.94	0.00	0.00	0.00
16,300.00	90.00	179.58	9,662.00	-6,836.02	150.08	6,836.94	0.00	0.00	0.00
16,400.00	90.00	179.58	9,662.00	-6,936.02	150.82	6,936.94	0.00	0.00	0.00
16,500.00	90.00	179.58	9,662.00	-7,036.02	151.55	7,036.94	0.00	0.00	0.00
16,600.00	90.00	179.58	9,662.00	-7,136.01	152.29	7,136.94	0.00	0.00	0.00
16,700.00	90.00	179.58	9,662.00	-7,236.01	153.03	7,236.94	0.00	0.00	0.00
16,800.00	90.00	179.58	9,662.00	-7,336.01	153.76	7,336.94	0.00	0.00	0.00
16,900.00	90.00	179.58	9,662.00	-7,436.00	154.50	7,436.94	0.00	0.00	0.00
17,000.00	90.00	179.58	9,662.00	-7,536.00	155.23	7,536.94	0.00	0.00	0.00
17,087.86	90.00	179.58	9,662.00	-7,623.86	155.88	7,624.80	0.00	0.00	0.00
TD - PBHL (TU 122H)									

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SHL (TU 122H) - plan hits target center - Point	0.00	0.00	0.00	0.00	0.00	472,521.38	775,208.34	32° 17' 48.357 N	103° 34' 35.197 W
PBHL (TU 122H) - plan hits target center - Point	0.00	0.00	9,662.00	-7,623.86	155.88	464,897.52	775,364.22	32° 16' 32.907 N	103° 34' 34.008 W

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,393.00	1,393.00	Rustler		0.00		
1,650.00	1,650.00	Top Salt		0.00		
4,948.00	4,948.00	Base Salt		0.00		
5,213.00	5,213.00	Delaware		0.00		
6,174.00	6,174.00	Cherry Cyn		0.00		
8,861.00	8,861.00	Lwr Brushy		0.00		
9,076.00	9,076.00	Bone Spring		0.00		
9,178.00	9,178.00	Mid Leonard		0.00		
9,779.33	9,637.00	Lnd B		0.00		

LEAM Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 122H
Company:	DEVON ENERGY	TVD Reference:	3726.5' GL + 23.5' RKB @ 3750.00usft (Original Well Elev)
Project:	Lea County, NM (NAD-83)	MD Reference:	3726.5' GL + 23.5' RKB @ 3750.00usft (Original Well Elev)
Site:	Thistle Unit	North Reference:	Grid
Well:	122H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
9,184.54	9,184.54	0.00	0.00	KOP 12° DLS
9,934.54	9,662.01	-472.58	68.10	LP / Turn
10,453.09	9,662.00	-989.27	107.05	Hold
17,087.86	9,662.00	-7,623.86	155.88	TD

DEVON ENERGY

Lea County, NM (NAD-83)

Thistle Unit

122H

OH

Plan #1

Anticollision Report

09 September, 2015

LEAM Drilling Systems LLC

Anticollision Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 122H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3728.5' GL + 23.5' RKB @ 3750.00usft (Original Well Elev)
Reference Site:	Thistle Unit	MD Reference:	3728.5' GL + 23.5' RKB @ 3750.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	122H	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
Depth Range:	0.00 to 11,000.00usft
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	9/9/2015
From (usft)	To (usft)	Survey (Wellbore)
0.00	17,087.52	Plan #1 (OH)
Tool Name	Description	
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						
Thistle Unit						
107H - OH - Plan #1	5,066.60	5,066.80	49.98	27.48	2.222	CC
107H - OH - Plan #1	5,100.00	5,100.00	49.98	27.33	2.207	ES, SF
52H - 52H OH - 52H OH	10,900.00	9,521.29	3,897.97	3,861.43	106.673	CC, ES, SF
54H - OH - OH	10,900.00	9,620.11	4,080.37	4,029.54	80.281	CC, ES, SF
60H - OH - OH	9,250.00	16,045.00	2,530.98	2,430.76	25.254	SF
60H - OH - OH	10,900.00	14,647.40	2,144.62	2,069.74	28.643	CC, ES
77H - OH - Plan #1	5,131.41	5,132.31	99.98	77.19	4.387	CC
77H - OH - Plan #1	5,300.00	5,300.72	100.12	76.57	4.252	ES
77H - OH - Plan #1	5,500.00	5,499.80	102.03	77.59	4.175	SF
Thistle Unit (Offsets)						
18H - OH - OH	10,900.00	8,552.00	4,172.55	4,129.77	97.524	CC, ES, SF

Offset Design												Thistle Unit - 107H - OH - Plan #1		Offset Site Error: 0.00 usft	
Survey Program: 0-LEAM MWD-ADJ														Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis		Highside Toolface		Distance		Minimum Separation		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)				
0.00	0.00	0.20	0.20	0.00	0.00	89.60		0.35	49.98	49.98					
100.00	100.00	100.20	100.20	0.09	0.09	89.60		0.35	49.98	49.98	49.81	0.17	289.921		
200.00	200.00	200.20	200.20	0.31	0.31	89.60		0.35	49.98	49.98	49.36	0.82	80.365		
300.00	300.00	300.20	300.20	0.54	0.54	89.60		0.35	49.98	49.98	48.91	1.07	46.648		
400.00	400.00	400.20	400.20	0.76	0.76	89.60		0.35	49.98	49.98	48.46	1.52	32.861		
500.00	500.00	500.20	500.20	0.99	0.99	89.60		0.35	49.98	49.98	48.01	1.97	25.364		
600.00	600.00	600.20	600.20	1.21	1.21	89.60		0.35	49.98	49.98	47.56	2.42	20.653		
700.00	700.00	700.20	700.20	1.43	1.44	89.60		0.35	49.98	49.98	47.11	2.87	17.418		
800.00	800.00	800.20	800.20	1.66	1.66	89.60		0.35	49.98	49.98	46.66	3.32	15.059		
900.00	900.00	900.20	900.20	1.88	1.88	89.60		0.35	49.98	49.98	46.21	3.77	13.262		
1,000.00	1,000.00	1,000.20	1,000.20	2.11	2.11	89.60		0.35	49.98	49.98	45.76	4.22	11.849		
1,100.00	1,100.00	1,100.20	1,100.20	2.33	2.33	89.60		0.35	49.98	49.98	45.31	4.67	10.708		
1,200.00	1,200.00	1,200.20	1,200.20	2.56	2.56	89.60		0.35	49.98	49.98	44.86	5.12	9.767		
1,300.00	1,300.00	1,300.20	1,300.20	2.78	2.78	89.60		0.35	49.98	49.98	44.41	5.57	8.978		

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 122H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3726.5' GL + 23.5' RKB @ 3750.00usft (Original Well Elev)
Reference Site:	Thistle Unit	MD Reference:	3726.5' GL + 23.5' RKB @ 3750.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	122H	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 Thistle Unit - 107H - OH - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-LEAM MWD-ADJ													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							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		
1,400.00	1,400.00	1,400.20	1,400.20	3.01	3.01	89.60	0.35	49.98	49.98	43.96	6.02	8.308		
1,500.00	1,500.00	1,500.20	1,500.20	3.23	3.23	89.60	0.35	49.98	49.98	43.52	6.47	7.730		
1,600.00	1,600.00	1,600.20	1,600.20	3.46	3.46	89.60	0.35	49.98	49.98	43.07	6.92	7.228		
1,700.00	1,700.00	1,700.20	1,700.20	3.68	3.68	89.60	0.35	49.98	49.98	42.62	7.36	6.786		
1,800.00	1,800.00	1,800.20	1,800.20	3.91	3.91	89.60	0.35	49.98	49.98	42.17	7.81	6.396		
1,900.00	1,900.00	1,900.20	1,900.20	4.13	4.13	89.60	0.35	49.98	49.98	41.72	8.26	6.048		
2,000.00	2,000.00	2,000.20	2,000.20	4.36	4.36	89.60	0.35	49.98	49.98	41.27	8.71	5.736		
2,100.00	2,100.00	2,100.20	2,100.20	4.58	4.58	89.60	0.35	49.98	49.98	40.82	9.16	5.455		
2,200.00	2,200.00	2,200.20	2,200.20	4.81	4.81	89.60	0.35	49.98	49.98	40.37	9.61	5.200		
2,300.00	2,300.00	2,300.20	2,300.20	5.03	5.03	89.60	0.35	49.98	49.98	39.92	10.06	4.967		
2,400.00	2,400.00	2,400.20	2,400.20	5.26	5.26	89.60	0.35	49.98	49.98	39.47	10.51	4.755		
2,500.00	2,500.00	2,500.20	2,500.20	5.48	5.48	89.60	0.35	49.98	49.98	39.02	10.96	4.560		
2,600.00	2,600.00	2,600.20	2,600.20	5.71	5.71	89.60	0.35	49.98	49.98	38.57	11.41	4.380		
2,700.00	2,700.00	2,700.20	2,700.20	5.93	5.93	89.60	0.35	49.98	49.98	38.12	11.86	4.214		
2,800.00	2,800.00	2,800.20	2,800.20	6.15	6.16	89.60	0.35	49.98	49.98	37.67	12.31	4.060		
2,900.00	2,900.00	2,900.20	2,900.20	6.38	6.38	89.60	0.35	49.98	49.98	37.22	12.76	3.917		
3,000.00	3,000.00	3,000.20	3,000.20	6.60	6.60	89.60	0.35	49.98	49.98	36.77	13.21	3.784		
3,100.00	3,100.00	3,100.20	3,100.20	6.83	6.83	89.60	0.35	49.98	49.98	36.32	13.66	3.659		
3,200.00	3,200.00	3,200.20	3,200.20	7.05	7.05	89.60	0.35	49.98	49.98	35.87	14.11	3.543		
3,300.00	3,300.00	3,300.20	3,300.20	7.28	7.28	89.60	0.35	49.98	49.98	35.42	14.56	3.433		
3,400.00	3,400.00	3,400.20	3,400.20	7.50	7.50	89.60	0.35	49.98	49.98	34.97	15.01	3.331		
3,500.00	3,500.00	3,500.20	3,500.20	7.73	7.73	89.60	0.35	49.98	49.98	34.52	15.46	3.234		
3,600.00	3,600.00	3,600.20	3,600.20	7.95	7.95	89.60	0.35	49.98	49.98	34.08	15.91	3.142		
3,700.00	3,700.00	3,700.20	3,700.20	8.18	8.18	89.60	0.35	49.98	49.98	33.63	16.36	3.056		
3,800.00	3,800.00	3,800.20	3,800.20	8.40	8.40	89.60	0.35	49.98	49.98	33.18	16.81	2.974		
3,900.00	3,900.00	3,900.20	3,900.20	8.63	8.63	89.60	0.35	49.98	49.98	32.73	17.25	2.897		
4,000.00	4,000.00	4,000.20	4,000.20	8.85	8.85	89.60	0.35	49.98	49.98	32.28	17.70	2.823		
4,100.00	4,100.00	4,100.20	4,100.20	9.08	9.08	89.60	0.35	49.98	49.98	31.83	18.15	2.753		
4,200.00	4,200.00	4,200.20	4,200.20	9.30	9.30	89.60	0.35	49.98	49.98	31.38	18.60	2.687		
4,300.00	4,300.00	4,300.20	4,300.20	9.53	9.53	89.60	0.35	49.98	49.98	30.93	19.05	2.623		
4,400.00	4,400.00	4,400.20	4,400.20	9.75	9.75	89.60	0.35	49.98	49.98	30.48	19.50	2.563		
4,500.00	4,500.00	4,500.20	4,500.20	9.98	9.98	89.60	0.35	49.98	49.98	30.03	19.95	2.505		
4,600.00	4,600.00	4,600.20	4,600.20	10.20	10.20	89.60	0.35	49.98	49.98	29.58	20.40	2.450		
4,700.00	4,700.00	4,700.20	4,700.20	10.43	10.43	89.60	0.35	49.98	49.98	29.13	20.85	2.397		
4,800.00	4,800.00	4,800.20	4,800.20	10.65	10.65	89.60	0.35	49.98	49.98	28.68	21.30	2.346		
4,900.00	4,900.00	4,900.20	4,900.20	10.87	10.88	89.60	0.35	49.98	49.98	28.23	21.75	2.298		
5,000.00	5,000.00	5,000.20	5,000.20	11.10	11.10	89.60	0.35	49.98	49.98	27.78	22.20	2.251		
5,066.80	5,066.80	5,066.80	5,066.80	11.25	11.25	89.60	0.35	49.98	49.98	27.48	22.50	2.222 CC		
5,100.00	5,100.00	5,100.00	5,100.00	11.32	11.32	89.60	0.35	49.98	49.98	27.33	22.65	2.207 ES, SF		
5,200.00	5,200.00	5,198.44	5,198.42	11.55	11.53	89.61	0.35	51.67	51.70	26.62	23.08	2.240		
5,300.00	5,300.00	5,298.35	5,298.27	11.77	11.73	89.64	0.35	55.16	55.19	26.09	23.50	2.348		
5,400.00	5,400.00	5,398.29	5,398.15	12.00	11.93	89.66	0.35	58.65	58.68	25.54	23.92	2.453		
5,500.00	5,500.00	5,498.23	5,498.03	12.22	12.13	89.68	0.35	62.13	62.17	25.00	24.35	2.554		
5,600.00	5,600.00	5,598.17	5,597.91	12.45	12.33	89.69	0.35	65.62	65.66	24.46	24.77	2.651		
5,700.00	5,700.00	5,698.11	5,697.79	12.67	12.53	89.71	0.35	69.11	69.15	23.92	25.19	2.745		
5,800.00	5,800.00	5,798.05	5,797.66	12.90	12.74	89.72	0.35	72.60	72.64	23.40	25.62	2.835		
5,900.00	5,900.00	5,897.99	5,897.54	13.12	12.94	89.74	0.35	76.08	76.13	22.88	26.05	2.923		
6,000.00	6,000.00	5,897.93	5,897.42	13.35	13.15	89.75	0.35	79.57	79.62	22.37	26.47	3.008		
6,100.00	6,100.00	6,097.87	6,097.30	13.57	13.36	89.76	0.35	83.06	83.11	21.86	26.90	3.090		
6,200.00	6,200.00	6,197.81	6,197.18	13.80	13.56	89.77	0.35	86.55	86.60	21.35	27.33	3.169		
6,300.00	6,300.00	6,297.75	6,297.06	14.02	13.77	89.78	0.35	90.04	90.09	20.84	27.76	3.246		

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)

Local Co-ordinate Reference: Well 122H
TVD Reference: 3726.5' GL + 23.5' RKB @ 3750.00usft
(Original Well Elev)

Reference Site: Thistle Unit

MD Reference: 3726.5' GL + 23.5' RKB @ 3750.00usft
(Original Well Elev)

Site Error: 0.00 usft

North Reference: Grid

Reference Well: 122H

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 Thistle Unit - 107H - OH - Plan #1													Offset Site Error: 0.00 usft
Survey Program: 0-LEAM MWD-ADJ													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N-S (usft)	+E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
6,400.00	6,400.00	6,397.88	6,398.93	14.25	13.98	89.79	0.35	93.52	93.58	65.39	28.19	3.320	
6,500.00	6,500.00	6,497.82	6,498.81	14.47	14.19	89.79	0.35	97.01	97.07	68.45	28.82	3.382	
6,600.00	6,600.00	6,600.18	6,599.34	14.70	14.40	89.80	0.35	99.28	99.28	70.23	29.05	3.418	
6,700.00	6,700.00	6,701.04	6,700.20	14.92	14.59	89.80	0.35	99.42	99.42	69.95	29.47	3.374	
6,800.00	6,800.00	6,801.04	6,800.20	15.15	14.82	89.80	0.35	99.42	99.42	69.50	29.92	3.323	
6,900.00	6,900.00	6,901.04	6,900.20	15.37	15.04	89.80	0.35	99.42	99.42	69.06	30.37	3.274	
7,000.00	7,000.00	7,001.04	7,000.20	15.59	15.26	89.80	0.35	99.42	99.42	68.61	30.82	3.226	
7,100.00	7,100.00	7,101.04	7,100.20	15.82	15.49	89.80	0.35	99.42	99.42	68.16	31.26	3.180	
7,200.00	7,200.00	7,201.04	7,200.20	16.04	15.71	89.80	0.35	99.42	99.42	67.71	31.71	3.135	
7,300.00	7,300.00	7,301.04	7,300.20	16.27	15.93	89.80	0.35	99.42	99.42	67.26	32.16	3.091	
7,400.00	7,400.00	7,401.04	7,400.20	16.49	16.16	89.80	0.35	99.42	99.42	66.81	32.61	3.049	
7,500.00	7,500.00	7,501.04	7,500.20	16.72	16.38	89.80	0.35	99.42	99.42	66.37	33.06	3.008	
7,600.00	7,600.00	7,601.04	7,600.20	16.94	16.60	89.80	0.35	99.42	99.42	65.92	33.50	2.967	
7,700.00	7,700.00	7,701.04	7,700.20	17.17	16.83	89.80	0.35	99.42	99.42	65.47	33.95	2.928	
7,800.00	7,800.00	7,801.04	7,800.20	17.39	17.05	89.80	0.35	99.42	99.42	65.02	34.40	2.890	
7,900.00	7,900.00	7,901.04	7,900.20	17.62	17.27	89.80	0.35	99.42	99.42	64.57	34.85	2.853	
8,000.00	8,000.00	8,001.04	8,000.20	17.84	17.50	89.80	0.35	99.42	99.42	64.12	35.30	2.817	
8,100.00	8,100.00	8,101.04	8,100.20	18.07	17.72	89.80	0.35	99.42	99.42	63.67	35.75	2.781	
8,200.00	8,200.00	8,201.04	8,200.20	18.29	17.94	89.80	0.35	99.42	99.42	63.23	36.20	2.747	
8,300.00	8,300.00	8,301.04	8,300.20	18.52	18.17	89.80	0.35	99.42	99.42	62.78	36.64	2.713	
8,400.00	8,400.00	8,401.04	8,400.20	18.74	18.39	89.80	0.35	99.42	99.42	62.33	37.09	2.680	
8,500.00	8,500.00	8,501.04	8,500.20	18.97	18.62	89.80	0.35	99.42	99.42	61.88	37.54	2.648	
8,600.00	8,600.00	8,601.04	8,600.20	19.19	18.84	89.80	0.35	99.42	99.42	61.43	37.99	2.617	
8,700.00	8,700.00	8,701.04	8,700.20	19.42	19.06	89.80	0.35	99.42	99.42	60.98	38.44	2.586	
8,800.00	8,800.00	8,801.04	8,800.20	19.64	19.29	89.80	0.35	99.42	99.42	60.53	38.89	2.557	
8,900.00	8,900.00	8,901.04	8,900.20	19.87	19.51	89.80	0.35	99.42	99.42	60.09	39.34	2.527	
9,000.00	9,000.00	9,001.04	9,000.20	20.09	19.73	89.80	0.35	99.42	99.42	59.64	39.79	2.499	
9,100.00	9,100.00	9,101.04	9,100.20	20.31	19.96	89.80	0.35	99.42	99.42	59.19	40.23	2.471	
9,184.54	9,184.54	9,185.58	9,184.74	20.50	20.15	89.80	0.35	99.42	99.42	58.81	40.61	2.448	
9,200.00	9,200.00	9,201.04	9,200.20	20.54	20.18	-82.15	0.35	99.42	99.39	58.71	40.68	2.443	
9,225.00	9,224.95	9,225.99	9,225.15	20.58	20.24	-83.01	0.35	99.42	99.20	58.42	40.77	2.433	
9,250.00	9,249.80	9,250.83	9,250.00	20.62	20.29	-84.62	0.35	99.42	98.90	58.03	40.87	2.420	
9,275.00	9,274.46	9,275.50	9,274.66	20.66	20.35	-86.98	0.35	99.42	98.80	57.63	40.97	2.407	
9,299.76	9,298.64	9,299.68	9,298.84	20.70	20.40	-90.00	0.35	99.42	98.45	57.39	41.06	2.398	
9,300.00	9,298.88	9,299.92	9,299.08	20.71	20.40	-90.03	0.35	99.42	98.45	57.39	41.06	2.398	
9,325.00	9,322.98	9,324.02	9,323.18	20.75	20.46	-93.71	0.35	99.42	98.66	57.53	41.15	2.398	
9,350.00	9,346.71	9,347.75	9,346.91	20.79	20.51	-97.91	0.35	99.42	99.52	58.31	41.21	2.415	
9,375.00	9,369.99	9,371.03	9,370.19	20.83	20.56	-102.48	0.35	99.42	101.26	60.03	41.23	2.456	
9,400.00	9,392.76	9,393.80	9,392.96	20.87	20.61	-107.24	0.35	99.42	104.15	62.98	41.17	2.530	
9,425.00	9,414.96	9,416.00	9,415.16	20.91	20.66	-112.01	0.35	99.42	108.44	67.43	41.01	2.644	
9,450.00	9,436.53	9,437.57	9,436.73	20.95	20.71	-116.61	0.35	99.42	114.31	73.57	40.74	2.806	
9,475.00	9,457.41	9,458.45	9,457.61	21.00	20.76	-120.91	0.35	99.42	121.87	81.52	40.35	3.021	
9,500.00	9,477.55	9,478.58	9,477.75	21.04	20.80	-124.79	0.35	99.42	131.15	91.30	39.85	3.291	
9,525.00	9,496.87	9,497.91	9,497.07	21.09	20.85	-128.22	0.35	99.42	142.12	102.86	39.26	3.620	
9,550.00	9,515.35	9,516.39	9,515.55	21.15	20.89	-131.15	0.35	99.42	154.71	116.10	38.81	4.007	
9,575.00	9,532.91	9,538.75	9,537.91	21.21	20.93	-134.61	0.10	99.42	168.65	130.89	37.76	4.466	
9,600.00	9,549.52	9,565.17	9,564.28	21.28	20.98	-138.35	-1.48	99.43	183.22	146.48	36.74	4.987	
9,625.00	9,565.13	9,593.23	9,592.14	21.35	21.03	-141.79	-4.75	99.46	198.16	162.53	35.63	5.561	
9,650.00	9,579.70	9,623.22	9,621.66	21.43	21.08	-145.00	-10.05	99.50	213.33	178.86	34.47	6.189	
9,675.00	9,593.18	9,655.51	9,652.99	21.52	21.14	-148.02	-17.82	99.56	228.57	195.32	33.25	6.874	

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

LEAM Drilling Systems LLC

Anticollision Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 122H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3726.5' GL + 23.5' RKB @ 3750.00usft (Original Well Elev)
Reference Site:	Thistle Unit	MD Reference:	3726.5' GL + 23.5' RKB @ 3750.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	122H	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 Thistle Unit - 107H - OH - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-LEAM MWD-ADJ													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							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		
9,700.00	9,605.55	9,690.51	9,686.28	21.61	21.20	-150.91	-26.61	99.84	243.73	211.73	32.01	7.615		
9,725.00	9,616.76	9,726.77	9,721.85	21.72	21.27	-153.09	-43.15	99.74	258.65	227.91	30.75	8.413		
9,750.00	9,626.78	9,770.90	9,759.12	21.83	21.34	-156.40	-62.38	99.89	273.15	243.66	29.49	9.262		
9,775.00	9,635.80	9,817.80	9,798.49	21.95	21.43	-159.03	-87.47	100.07	287.01	258.74	28.28	10.151		
9,800.00	9,643.17	9,869.66	9,839.25	22.07	21.53	-161.60	-119.81	100.31	299.97	272.85	27.13	11.059		
9,825.00	9,649.49	9,927.84	9,880.33	22.21	21.66	-164.10	-160.96	100.62	311.73	285.65	26.08	11.954		
9,850.00	9,654.54	9,992.71	9,919.88	22.35	21.85	-166.52	-212.33	101.00	321.92	296.75	25.17	12.789		
9,875.00	9,658.30	10,064.42	9,955.00	22.51	22.12	-168.85	-274.76	101.46	330.15	305.70	24.45	13.505		
9,900.00	9,660.76	10,142.35	9,982.13	22.67	22.47	-171.06	-347.72	102.00	335.99	312.06	23.93	14.038		
9,925.00	9,661.91	10,224.87	9,997.54	22.83	22.93	-173.14	-426.68	102.60	339.09	315.44	23.66	14.333		
9,934.54	9,662.01	10,257.05	9,998.72	22.90	23.13	-173.90	-460.78	102.84	339.50	315.88	23.62	14.375		
10,000.00	9,662.01	10,333.53	10,000.00	23.36	23.66	-175.54	-537.25	103.40	338.83	315.11	23.72	14.284		
10,100.00	9,662.01	10,432.97	10,000.00	24.14	24.43	-177.30	-636.69	104.14	338.17	314.13	24.04	14.067		
10,200.00	9,662.00	10,532.85	10,000.00	25.03	25.31	-178.63	-736.37	104.88	337.89	313.38	24.51	13.787		
10,300.00	9,662.00	10,632.51	10,000.00	26.01	26.30	-179.53	-836.23	105.62	337.81	312.72	25.09	13.464		
10,400.00	9,662.00	10,732.47	10,000.00	27.08	27.37	-179.99	-936.18	106.36	337.79	312.04	25.76	13.115		
10,403.49	9,662.00	10,735.96	10,000.00	27.12	27.41	-180.00	-939.68	106.38	337.79	312.01	25.78	13.102		
10,453.09	9,662.00	10,785.56	10,000.00	27.67	27.97	179.95	-989.28	106.75	337.79	311.66	26.14	12.924		
10,500.00	9,662.00	10,832.47	10,000.00	28.21	28.52	179.95	-1,036.18	107.10	337.79	311.31	26.49	12.752		
10,600.00	9,662.00	10,932.47	10,000.00	29.39	29.73	179.95	-1,136.18	107.84	337.79	310.51	27.28	12.382		
10,700.00	9,662.00	11,032.47	10,000.00	30.83	31.01	179.95	-1,236.17	108.58	337.79	309.67	28.13	12.010		
10,800.00	9,662.00	11,132.47	10,000.00	31.93	32.34	179.95	-1,336.17	109.32	337.79	308.77	29.02	11.640		
10,900.00	9,662.00	11,232.47	10,000.00	33.28	33.72	179.95	-1,436.17	110.06	337.79	307.83	29.96	11.274		

LEAM Drilling Systems LLC

Anticollision Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 122H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3726.5' GL + 23.5' RKB @ 3750.00usft (Original Well Elev)
Reference Site:	Thistle Unit	MD Reference:	3726.5' GL + 23.5' RKB @ 3750.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	122H	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 Thistle Unit - 52H - 52H OH - 52H OH													Offset Site Error:	0.00 usft
Survey Program: 125- VES GyroFlex V2, 10603-LEAM MWD+HDGM, 15720-Project													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)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-168.47	-5,212.73	-1,063.78	5,320.30					
100.00	100.00	117.86	117.86	0.09	0.10	-168.47	-5,212.22	-1,063.22	5,319.84	5,319.86	0.18	N/A		
200.00	200.00	219.25	219.24	0.31	0.20	-168.48	-5,211.34	-1,061.99	5,318.75	5,318.24	0.51	N/A		
300.00	300.00	313.21	313.19	0.54	0.27	-168.49	-5,210.61	-1,060.88	5,317.75	5,316.95	0.80	6,676.486		
400.00	400.00	419.87	419.83	0.76	0.33	-168.50	-5,209.76	-1,059.64	5,316.74	5,315.86	1.08	4,913.931		
500.00	500.00	501.13	501.09	0.99	0.37	-168.51	-5,209.14	-1,058.56	5,315.75	5,314.40	1.35	3,943.510		
600.00	600.00	595.09	595.04	1.21	0.42	-168.52	-5,208.65	-1,057.67	5,315.04	5,313.43	1.62	3,288.617		
700.00	700.00	666.61	666.56	1.43	0.45	-168.53	-5,208.53	-1,057.25	5,314.75	5,312.88	1.87	2,844.134		
800.00	800.00	788.34	788.29	1.66	0.51	-168.53	-5,208.45	-1,056.47	5,314.58	5,312.44	2.14	2,486.033		
900.00	900.00	882.17	882.11	1.88	0.55	-168.54	-5,208.18	-1,055.83	5,314.16	5,311.76	2.40	2,216.146		
1,000.00	1,000.00	977.36	977.30	2.11	0.59	-168.54	-5,207.95	-1,055.40	5,313.83	5,311.18	2.66	1,999.548		
1,100.00	1,100.00	1,070.19	1,070.12	2.33	0.61	-168.54	-5,207.65	-1,055.93	5,313.63	5,310.72	2.91	1,825.550		
1,200.00	1,200.00	1,176.48	1,176.42	2.56	0.63	-168.53	-5,207.30	-1,056.60	5,313.43	5,310.27	3.17	1,678.275		
1,300.00	1,300.00	1,289.58	1,289.51	2.78	0.66	-168.53	-5,206.87	-1,056.84	5,313.10	5,309.88	3.43	1,550.399		
1,400.00	1,400.00	1,401.30	1,401.23	3.01	0.69	-168.52	-5,205.92	-1,057.59	5,312.40	5,308.72	3.68	1,441.719		
1,500.00	1,500.00	1,503.30	1,503.21	3.23	0.71	-168.50	-5,204.89	-1,059.00	5,311.68	5,307.75	3.94	1,349.552		
1,600.00	1,600.00	1,597.48	1,597.38	3.46	0.73	-168.48	-5,203.89	-1,060.41	5,310.94	5,306.76	4.18	1,269.610		
1,700.00	1,700.00	1,699.96	1,699.86	3.68	0.75	-168.46	-5,202.91	-1,061.96	5,310.31	5,305.88	4.43	1,198.229		
1,800.00	1,800.00	1,801.53	1,801.40	3.91	0.77	-168.45	-5,201.91	-1,063.15	5,309.58	5,304.90	4.68	1,134.343		
1,900.00	1,900.00	1,887.07	1,886.92	4.13	0.79	-168.44	-5,201.13	-1,064.32	5,308.97	5,304.04	4.92	1,078.181		
2,000.00	2,000.00	1,989.01	1,988.84	4.36	0.82	-168.41	-5,200.33	-1,066.09	5,308.54	5,303.37	5.17	1,027.034		
2,100.00	2,100.00	2,097.99	2,097.81	4.58	0.84	-168.39	-5,199.34	-1,067.76	5,307.97	5,302.55	5.42	980.092		
2,200.00	2,200.00	2,174.74	2,174.55	4.81	0.86	-168.38	-5,198.78	-1,068.78	5,307.52	5,301.87	5.66	938.502		
2,300.00	2,300.00	2,285.16	2,284.96	5.03	0.89	-168.36	-5,198.16	-1,070.42	5,307.27	5,301.38	5.90	899.730		
2,400.00	2,400.00	2,380.33	2,380.11	5.26	0.91	-168.35	-5,197.49	-1,072.03	5,306.92	5,300.78	6.14	864.338		
2,500.00	2,500.00	2,485.62	2,485.39	5.48	0.94	-168.33	-5,196.78	-1,073.52	5,306.55	5,300.16	6.38	831.335		
2,600.00	2,600.00	2,573.20	2,572.96	5.71	0.96	-168.32	-5,196.29	-1,074.58	5,306.24	5,299.62	6.62	801.193		
2,700.00	2,700.00	2,675.21	2,674.96	5.93	0.99	-168.30	-5,195.76	-1,076.04	5,306.03	5,299.17	6.86	773.088		
2,800.00	2,800.00	2,787.41	2,787.14	6.15	1.02	-168.28	-5,195.09	-1,077.73	5,305.75	5,298.65	7.11	746.532		
2,900.00	2,900.00	2,903.94	2,903.66	6.38	1.06	-168.27	-5,194.08	-1,078.46	5,305.02	5,297.86	7.36	721.012		
3,000.00	3,000.00	3,006.00	3,005.72	6.60	1.09	-168.27	-5,193.23	-1,078.73	5,304.26	5,296.65	7.61	697.123		
3,100.00	3,100.00	3,134.84	3,134.56	6.83	1.12	-168.27	-5,191.96	-1,078.26	5,303.23	5,295.36	7.87	673.884		
3,200.00	3,200.00	3,233.17	3,232.88	7.05	1.15	-168.27	-5,190.79	-1,077.43	5,301.89	5,293.77	8.12	652.732		
3,300.00	3,300.00	3,340.91	3,340.60	7.28	1.17	-168.28	-5,189.45	-1,076.51	5,300.51	5,292.13	8.38	632.623		
3,400.00	3,400.00	3,448.31	3,447.99	7.50	1.20	-168.29	-5,187.95	-1,075.45	5,298.93	5,290.30	8.63	613.666		
3,500.00	3,500.00	3,552.04	3,551.70	7.73	1.23	-168.29	-5,186.37	-1,074.83	5,297.32	5,288.43	8.89	595.830		
3,600.00	3,600.00	3,643.83	3,643.48	7.95	1.25	-168.30	-5,184.92	-1,074.13	5,295.63	5,286.49	9.14	579.191		
3,700.00	3,700.00	3,720.64	3,720.28	8.18	1.27	-168.30	-5,184.03	-1,073.56	5,294.34	5,284.95	9.39	563.761		
3,800.00	3,800.00	3,801.92	3,801.56	8.40	1.29	-168.30	-5,183.36	-1,073.16	5,293.43	5,283.79	9.64	549.085		
3,900.00	3,900.00	3,888.75	3,888.38	8.63	1.32	-168.30	-5,182.66	-1,073.03	5,292.84	5,282.95	9.89	535.084		
4,000.00	4,000.00	4,000.04	3,999.67	8.85	1.35	-168.30	-5,182.13	-1,072.78	5,292.14	5,281.99	10.15	521.444		
4,100.00	4,100.00	4,071.61	4,071.24	9.08	1.37	-168.31	-5,181.96	-1,072.00	5,291.69	5,281.29	10.39	509.262		
4,140.14	4,140.14	4,103.22	4,102.84	9.17	1.37	-168.32	-5,182.06	-1,071.31	5,291.64	5,281.16	10.49	504.645		
4,200.00	4,200.00	4,146.54	4,146.13	9.30	1.37	-168.34	-5,182.46	-1,069.70	5,291.74	5,281.11	10.63	497.966		
4,300.00	4,300.00	4,258.36	4,257.70	9.53	1.38	-168.42	-5,184.27	-1,062.52	5,292.04	5,281.17	10.87	486.986		
4,400.00	4,400.00	4,332.22	4,331.32	9.75	1.38	-168.48	-5,185.70	-1,056.77	5,292.38	5,281.27	11.10	476.683		
4,500.00	4,500.00	4,416.28	4,415.13	9.98	1.38	-168.55	-5,187.62	-1,050.61	5,293.15	5,281.81	11.34	466.886		
4,600.00	4,600.00	4,511.24	4,509.80	10.20	1.39	-168.63	-5,189.99	-1,043.52	5,294.12	5,282.55	11.57	457.399		
4,700.00	4,700.00	4,585.55	4,583.87	10.43	1.40	-168.70	-5,191.99	-1,037.88	5,295.30	5,283.49	11.81	448.445		
4,800.00	4,800.00	4,654.34	4,652.43	10.65	1.40	-168.75	-5,194.28	-1,032.84	5,297.12	5,285.08	12.04	439.944		
4,900.00	4,900.00	4,786.15	4,783.93	10.87	1.41	-168.85	-5,198.61	-1,024.91	5,299.26	5,286.98	12.28	431.628		

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

LEAM Drilling Systems LLC

Anticollision Report

Company: DEVON ENERGY
Project: Lea County, NM (NAD-83)

Reference Site: Thistle Unit

Site Error: 0.00 usft

Reference Well: 122H

Well Error: 0.00 usft

Reference Wellbore: OH

Reference Design: Plan #1

Local Co-ordinate Reference:

TVD Reference: 3726.5' GL + 23.5' RKB @ 3750.00usft
(Original Well Elev)

MD Reference: 3726.5' GL + 23.5' RKB @ 3750.00usft
(Original Well Elev)

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

Database: EDM 5000.1 Single User Db

Offset TVD Reference: Offset Datum

Offset Design Thistle Unit - 52H - 52H OH - 52H OH													Offset Site Error: 0.00 usft
Survey Program: 125- VES GyroFlex V2, 10603-LEAM MWD+HDGM, 15720-Project													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance		Minimum	Separation	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)	Separation (usft)	Factor	
5,000.00	5,000.00	4,986.63	4,984.13	11.10	1.43	-168.96	-5,201.85	-1,014.83	5,299.77	5,287.24	12.53	423.070	
5,100.00	5,100.00	5,092.18	5,089.54	11.32	1.44	-169.02	-5,202.07	-1,009.49	5,299.18	5,286.41	12.77	415.025	
5,200.00	5,200.00	5,173.26	5,170.50	11.55	1.46	-169.07	-5,202.63	-1,005.16	5,298.84	5,285.84	13.01	407.437	
5,300.00	5,300.00	5,278.00	5,273.10	11.77	1.47	-169.12	-5,203.56	-999.76	5,298.74	5,285.50	13.24	400.057	
5,400.00	5,400.00	5,387.05	5,384.00	12.00	1.49	-169.19	-5,204.28	-994.00	5,298.40	5,284.91	13.49	392.887	
5,499.88	5,499.88	5,465.53	5,462.38	12.22	1.50	-169.23	-5,204.84	-990.02	5,298.16	5,284.44	13.72	386.111	
5,500.00	5,500.00	5,465.78	5,462.62	12.22	1.50	-169.23	-5,204.84	-990.00	5,298.16	5,284.44	13.72	386.090	
5,600.00	5,600.00	5,569.93	5,566.63	12.45	1.52	-169.29	-5,205.87	-984.70	5,296.18	5,284.22	13.96	379.477	
5,700.00	5,700.00	5,687.89	5,684.42	12.67	1.54	-169.36	-5,206.73	-978.33	5,297.89	5,283.66	14.20	372.987	
5,800.00	5,800.00	5,775.93	5,772.32	12.90	1.56	-169.41	-5,207.35	-973.51	5,297.57	5,283.13	14.44	366.824	
5,839.57	5,839.57	5,806.29	5,802.64	12.99	1.57	-169.43	-5,207.83	-971.85	5,297.53	5,283.00	14.53	364.471	
5,900.00	5,900.00	5,856.85	5,853.12	13.12	1.58	-169.46	-5,208.21	-969.10	5,297.61	5,282.94	14.68	360.931	
6,000.00	6,000.00	5,992.14	5,988.22	13.35	1.60	-169.54	-5,209.23	-962.02	5,297.38	5,282.46	14.92	355.008	
6,100.00	6,100.00	6,112.55	6,108.50	13.57	1.63	-169.60	-5,209.55	-956.37	5,296.80	5,281.64	15.17	349.262	
6,200.00	6,200.00	6,200.54	6,196.40	13.80	1.65	-169.64	-5,209.49	-952.47	5,295.96	5,280.55	15.40	343.790	
6,300.00	6,300.00	6,291.73	6,287.50	14.02	1.67	-169.68	-5,209.77	-948.49	5,295.47	5,279.82	15.64	338.511	
6,400.00	6,400.00	6,426.85	6,422.49	14.25	1.71	-169.74	-5,209.82	-942.88	5,294.75	5,278.86	15.89	333.216	
6,500.00	6,500.00	6,527.78	6,523.32	14.47	1.73	-169.79	-5,209.46	-938.21	5,293.82	5,277.49	16.13	328.136	
6,600.00	6,600.00	6,628.53	6,623.98	14.70	1.76	-169.84	-5,209.06	-933.69	5,292.43	5,276.05	16.37	323.203	
6,700.00	6,700.00	6,718.60	6,713.95	14.92	1.78	-169.88	-5,208.91	-929.47	5,291.43	5,274.82	16.62	318.470	
6,800.00	6,800.00	6,840.20	6,835.40	15.15	1.82	-169.94	-5,208.34	-923.53	5,290.08	5,273.22	16.86	313.737	
6,900.00	6,900.00	6,957.89	6,952.95	15.37	1.85	-170.00	-5,207.66	-918.02	5,288.72	5,271.62	17.11	309.131	
7,000.00	7,000.00	7,049.95	7,044.94	15.59	1.88	-170.04	-5,206.88	-914.25	5,286.98	5,269.63	17.35	304.704	
7,100.00	7,100.00	7,130.56	7,125.47	15.82	1.90	-170.08	-5,206.16	-910.88	5,285.62	5,268.03	17.59	300.474	
7,200.00	7,200.00	7,218.06	7,212.90	16.04	1.93	-170.11	-5,205.87	-907.28	5,284.58	5,266.75	17.83	296.372	
7,300.00	7,300.00	7,320.62	7,315.38	16.27	1.96	-170.16	-5,205.82	-903.17	5,283.85	5,265.58	18.07	292.351	
7,400.00	7,400.00	7,453.63	7,448.27	16.49	2.00	-170.22	-5,204.90	-897.51	5,282.41	5,264.09	18.32	288.315	
7,500.00	7,500.00	7,548.13	7,542.68	16.72	2.03	-170.26	-5,203.91	-893.55	5,280.87	5,262.11	18.57	284.435	
7,600.00	7,600.00	7,624.94	7,619.42	16.94	2.05	-170.29	-5,203.31	-890.32	5,279.24	5,260.44	18.80	280.745	
7,700.00	7,700.00	7,709.80	7,704.20	17.17	2.08	-170.33	-5,203.16	-886.85	5,278.36	5,259.32	19.04	277.177	
7,800.00	7,800.00	7,813.99	7,808.33	17.39	2.11	-170.37	-5,202.98	-882.98	5,277.57	5,258.28	19.28	273.662	
7,900.00	7,900.00	7,901.06	7,895.34	17.62	2.14	-170.40	-5,202.82	-879.88	5,276.80	5,257.27	19.52	270.279	
8,000.00	8,000.00	8,010.81	8,005.02	17.84	2.17	-170.44	-5,202.78	-875.84	5,276.15	5,256.39	19.77	266.940	
8,100.00	8,100.00	8,100.51	8,094.64	18.07	2.20	-170.48	-5,202.69	-872.46	5,275.43	5,255.43	20.00	263.719	
8,200.00	8,200.00	8,191.72	8,185.80	18.29	2.23	-170.52	-5,202.76	-869.17	5,274.92	5,254.67	20.24	260.592	
8,300.00	8,300.00	8,299.81	8,293.83	18.52	2.26	-170.55	-5,202.73	-865.75	5,274.37	5,253.88	20.48	257.499	
8,400.00	8,400.00	8,393.77	8,387.76	18.74	2.29	-170.58	-5,202.63	-863.23	5,273.82	5,253.10	20.72	254.502	
8,500.00	8,500.00	8,470.33	8,464.29	18.97	2.31	-170.60	-5,202.80	-861.30	5,273.61	5,252.85	20.96	251.648	
8,516.16	8,516.16	8,487.73	8,481.69	19.00	2.32	-170.61	-5,202.87	-860.84	5,273.61	5,252.61	20.99	251.186	
8,600.00	8,600.00	8,571.44	8,565.38	19.19	2.34	-170.63	-5,203.21	-858.79	5,273.61	5,252.42	21.19	248.843	
8,633.48	8,633.48	8,602.26	8,596.18	19.27	2.35	-170.64	-5,203.31	-858.10	5,273.59	5,252.32	21.27	247.925	
8,700.00	8,700.00	8,659.55	8,653.46	19.42	2.37	-170.65	-5,203.57	-856.84	5,273.65	5,252.23	21.43	246.131	
8,800.00	8,800.00	8,755.82	8,749.71	19.64	2.39	-170.67	-5,204.12	-854.86	5,273.88	5,252.22	21.66	243.493	
8,900.00	8,900.00	8,831.62	8,825.49	19.87	2.41	-170.69	-5,204.68	-853.51	5,274.33	5,252.44	21.89	240.968	
9,000.00	9,000.00	8,941.67	8,935.52	20.09	2.43	-170.71	-5,205.83	-851.63	5,275.10	5,252.98	22.12	238.508	
9,100.00	9,100.00	9,036.13	9,029.97	20.31	2.46	-170.73	-5,206.56	-850.15	5,275.82	5,253.27	22.35	236.091	
9,184.54	9,184.54	9,104.86	9,098.69	20.50	2.47	-170.74	-5,207.27	-849.03	5,276.26	5,253.72	22.54	234.114	
9,200.00	9,200.00	9,117.14	9,110.98	20.54	2.47	17.46	-5,207.42	-848.84	5,276.17	5,253.64	22.52	234.266	
9,225.00	9,224.95	9,145.45	9,139.27	20.58	2.48	17.50	-5,207.79	-848.41	5,275.04	5,252.18	22.85	230.805	
9,250.00	9,249.80	9,160.17	9,153.99	20.62	2.48	17.59	-5,207.99	-848.19	5,272.66	5,249.33	23.33	225.964	

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

LEAM Drilling Systems LLC

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Offset TVD Reference: Offset Datum

Offset Design Thistle Unit - 52H - 52H OH - 52H OH													Offset Site Error: 0.00 usft
Survey Program: 125- VES GyroFlex V2, 10603-LEAM MWD+HDGM, 15720-Project													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis			Distance				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)
9,275.00	9,274.46	9,185.78	9,179.58	20.86	2.49	17.74	-5,208.34	-847.83	5,269.06	5,245.17	23.88	220.604	
9,300.00	9,298.88	9,211.14	9,204.95	20.71	2.49	17.93	-5,208.67	-847.50	5,264.22	5,239.76	24.46	215.243	
9,325.00	9,322.98	9,236.19	9,230.00	20.75	2.50	18.18	-5,208.99	-847.20	5,258.17	5,233.14	25.03	210.111	
9,350.00	9,346.71	9,258.10	9,251.90	20.79	2.50	18.49	-5,209.27	-846.96	5,250.91	5,225.34	25.57	205.336	
9,375.00	9,369.99	9,279.21	9,273.00	20.83	2.50	18.86	-5,209.54	-846.77	5,242.50	5,216.41	26.09	200.936	
9,400.00	9,362.76	9,299.87	9,293.66	20.87	2.50	19.30	-5,209.81	-846.61	5,232.93	5,206.36	26.58	196.911	
9,425.00	9,414.96	9,320.02	9,313.82	20.91	2.51	19.81	-5,210.07	-846.50	5,222.25	5,195.23	27.02	193.248	
9,450.00	9,436.53	9,340.05	9,333.84	20.95	2.51	20.40	-5,210.34	-846.42	5,210.48	5,183.05	27.43	189.923	
9,475.00	9,457.41	9,360.34	9,354.13	21.00	2.51	21.08	-5,210.61	-846.35	5,197.65	5,169.84	27.81	186.903	
9,500.00	9,477.55	9,379.92	9,373.70	21.04	2.51	21.87	-5,210.87	-846.30	5,183.80	5,155.85	28.15	184.176	
9,525.00	9,496.87	9,398.74	9,392.52	21.09	2.51	22.77	-5,211.12	-846.26	5,168.95	5,140.51	28.45	181.714	
9,550.00	9,515.35	9,416.74	9,410.52	21.15	2.51	23.81	-5,211.37	-846.23	5,153.16	5,124.45	28.71	179.487	
9,575.00	9,532.91	9,427.33	9,421.11	21.21	2.51	24.96	-5,211.51	-846.22	5,136.48	5,107.55	28.93	177.578	
9,600.00	9,549.52	9,427.33	9,421.11	21.28	2.51	26.23	-5,211.51	-846.22	5,118.98	5,089.90	29.08	176.020	
9,625.00	9,565.13	9,451.17	9,444.95	21.35	2.51	27.84	-5,211.87	-846.21	5,100.63	5,071.33	29.29	174.135	
9,650.00	9,579.70	9,460.16	9,453.94	21.43	2.51	29.60	-5,212.02	-846.21	5,081.56	5,052.12	29.44	172.599	
9,675.00	9,593.18	9,468.53	9,462.31	21.52	2.51	31.63	-5,212.17	-846.22	5,061.81	5,032.23	29.58	171.112	
9,700.00	9,605.55	9,476.26	9,470.03	21.61	2.51	34.00	-5,212.32	-846.23	5,041.42	5,011.70	29.72	169.650	
9,725.00	9,616.76	9,483.31	9,477.08	21.72	2.51	36.76	-5,212.46	-846.25	5,020.43	4,990.59	29.85	168.213	
9,750.00	9,626.78	9,489.67	9,483.44	21.83	2.51	39.98	-5,212.59	-846.26	4,998.92	4,968.96	29.96	166.840	
9,775.00	9,635.60	9,495.32	9,489.09	21.95	2.51	43.77	-5,212.71	-846.28	4,979.93	4,946.88	30.05	165.641	
9,800.00	9,643.17	9,500.24	9,494.01	22.07	2.51	48.22	-5,212.82	-846.30	4,954.52	4,924.46	30.06	164.824	
9,825.00	9,649.49	9,521.29	9,515.05	22.21	2.51	53.81	-5,213.32	-846.38	4,931.81	4,901.85	29.95	164.645	
9,850.00	9,654.54	9,521.29	9,515.05	22.35	2.51	59.84	-5,213.32	-846.38	4,908.73	4,879.15	29.58	165.929	
9,875.00	9,658.30	9,521.29	9,515.05	22.51	2.51	66.73	-5,213.32	-846.38	4,885.43	4,856.54	28.89	169.133	
9,900.00	9,660.76	9,521.29	9,515.05	22.67	2.51	74.44	-5,213.32	-846.38	4,861.96	4,834.17	27.79	174.984	
9,925.00	9,661.91	9,521.29	9,515.05	22.83	2.51	82.76	-5,213.32	-846.38	4,838.38	4,812.01	26.37	183.472	
9,934.54	9,662.01	9,521.29	9,515.05	22.90	2.51	86.03	-5,213.32	-846.38	4,829.37	4,803.51	25.86	186.724	
10,000.00	9,662.01	9,521.29	9,515.05	23.36	2.51	85.83	-5,213.32	-846.38	4,767.41	4,741.05	26.35	180.897	
10,100.00	9,662.01	9,521.29	9,515.05	24.14	2.51	85.48	-5,213.32	-846.38	4,672.23	4,645.05	27.18	171.873	
10,200.00	9,662.00	9,521.29	9,515.05	25.03	2.51	85.07	-5,213.32	-846.38	4,576.47	4,548.34	28.13	162.692	
10,300.00	9,662.00	9,521.29	9,515.05	26.01	2.51	84.58	-5,213.32	-846.38	4,480.16	4,450.98	29.18	153.546	
10,400.00	9,662.00	9,521.29	9,515.05	27.08	2.51	84.00	-5,213.32	-846.38	4,383.32	4,353.00	30.32	144.577	
10,453.09	9,662.00	9,521.29	9,515.05	27.67	2.51	83.64	-5,213.32	-846.38	4,331.70	4,300.74	30.96	139.922	
10,500.00	9,662.00	9,521.29	9,515.05	28.21	2.51	83.64	-5,213.32	-846.38	4,286.05	4,254.58	31.49	136.103	
10,600.00	9,662.00	9,521.29	9,515.05	29.39	2.51	83.64	-5,213.32	-846.38	4,188.82	4,156.15	32.67	128.234	
10,700.00	9,662.00	9,521.29	9,515.05	30.63	2.51	83.64	-5,213.32	-846.38	4,091.72	4,057.82	33.90	120.687	
10,800.00	9,662.00	9,521.29	9,515.05	31.93	2.51	83.64	-5,213.32	-846.38	3,994.77	3,959.57	35.20	113.495	
10,900.00	9,662.00	9,521.29	9,515.05	33.28	2.51	83.64	-5,213.32	-846.38	3,897.97	3,861.43	36.54	106.673 CC, 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: Thistle Unit

Site Error: 0.00 usft

Reference Well: 122H

Well Error: 0.00 usft

Reference Wellbore: OH

Reference Design: Plan #1

Local Co-ordinate Reference: Well 122H

TVD Reference: 3726.5' GL + 23.5' RKB @ 3750.00usft
(Original Well Elev)

MD Reference: 3726.5' GL + 23.5' RKB @ 3750.00usft
(Original Well Elev)

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

Database: EDM 5000.1 Single User Db

Offset TVD Reference: Offset Datum

Offset Design Thistle Unit - 54H - OH - OH													Offset Site Error: 0.00 usft
Survey Program: 176-MWD-ISCWSA, 1469-LEAM MWD+HDGM, 15627-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)				Between Centres (usft)	Between Ellipses (usft)
0.00	0.00	0.00	0.00	0.00	0.00	165.88	-5,216.47	1,312.53	5,379.12				
100.00	100.00	93.90	93.90	0.09	0.09	165.87	-5,216.26	1,312.71	5,378.93	5,378.76	0.18	N/A	
200.00	200.00	227.16	227.16	0.31	0.28	165.88	-5,215.26	1,313.39	5,378.35	5,377.75	0.59	9,102.523	
300.00	300.00	348.41	348.40	0.54	0.54	165.88	-5,213.77	1,313.31	5,377.12	5,376.04	1.08	4,996.364	
400.00	400.00	440.82	440.80	0.76	0.73	165.88	-5,212.56	1,313.22	5,375.83	5,374.34	1.49	3,604.531	
500.00	500.00	522.89	522.86	0.99	0.89	165.86	-5,211.68	1,313.21	5,374.78	5,372.90	1.88	2,860.176	
600.00	600.00	624.80	624.76	1.21	1.11	165.85	-5,210.74	1,313.35	5,373.93	5,371.61	2.32	2,320.714	
700.00	700.00	714.74	714.70	1.43	1.29	165.85	-5,209.94	1,313.49	5,373.10	5,370.37	2.73	1,969.266	
800.00	800.00	798.90	798.86	1.66	1.46	165.85	-5,209.50	1,313.30	5,372.53	5,369.41	3.12	1,720.399	
900.00	900.00	890.03	889.99	1.88	1.66	165.86	-5,209.34	1,312.83	5,372.24	5,368.70	3.54	1,516.521	
1,000.00	1,000.00	985.69	985.65	2.11	1.86	165.86	-5,209.25	1,312.28	5,372.01	5,368.04	3.97	1,352.976	
1,100.00	1,100.00	1,078.41	1,078.37	2.33	2.06	165.87	-5,209.32	1,311.56	5,371.89	5,367.49	4.39	1,222.486	
1,200.00	1,200.00	1,186.84	1,186.79	2.56	2.29	165.88	-5,209.51	1,310.42	5,371.81	5,366.96	4.85	1,108.089	
1,300.00	1,300.00	1,292.00	1,291.94	2.78	2.51	165.89	-5,209.54	1,309.15	5,371.54	5,366.24	5.29	1,014.781	
1,400.00	1,400.00	1,387.23	1,387.16	3.01	2.82	165.91	-5,209.60	1,307.88	5,371.27	5,365.65	5.63	954.884	
1,500.00	1,500.00	1,483.55	1,483.48	3.23	2.71	165.92	-5,209.74	1,306.68	5,371.11	5,365.16	5.95	903.316	
1,600.00	1,600.00	1,591.22	1,591.14	3.46	2.74	165.93	-5,209.79	1,305.52	5,370.90	5,364.69	6.20	865.916	
1,700.00	1,700.00	1,691.62	1,691.54	3.68	2.79	165.94	-5,209.70	1,304.58	5,370.58	5,364.11	6.47	829.575	
1,800.00	1,800.00	1,788.42	1,788.33	3.91	2.84	165.95	-5,209.66	1,303.69	5,370.32	5,363.57	6.75	795.297	
1,900.00	1,900.00	1,882.04	1,881.94	4.13	2.92	165.96	-5,209.69	1,302.88	5,370.14	5,363.09	7.05	761.869	
1,980.36	1,980.36	1,956.25	1,956.16	4.31	2.98	165.96	-5,209.77	1,302.40	5,370.09	5,362.80	7.29	736.427	
2,000.00	2,000.00	1,974.39	1,974.30	4.36	2.99	165.97	-5,209.79	1,302.31	5,370.10	5,362.74	7.35	730.467	
2,100.00	2,100.00	2,071.93	2,071.83	4.58	3.09	165.97	-5,209.96	1,301.92	5,370.16	5,362.49	7.68	699.619	
2,200.00	2,200.00	2,172.03	2,171.93	4.81	3.20	165.97	-5,210.09	1,301.69	5,370.24	5,362.23	8.01	670.389	
2,300.00	2,300.00	2,270.54	2,270.44	5.03	3.33	165.97	-5,210.19	1,301.60	5,370.32	5,361.96	8.36	642.451	
2,400.00	2,400.00	2,368.57	2,368.47	5.26	3.45	165.97	-5,210.31	1,301.63	5,370.44	5,361.73	8.71	616.464	
2,500.00	2,500.00	2,468.07	2,467.97	5.48	3.59	165.97	-5,210.43	1,301.71	5,370.58	5,361.51	9.07	592.126	
2,600.00	2,600.00	2,567.84	2,567.74	5.71	3.72	165.97	-5,210.58	1,301.73	5,370.73	5,361.30	9.43	569.574	
2,700.00	2,700.00	2,669.84	2,669.74	5.93	3.86	165.97	-5,210.73	1,301.70	5,370.86	5,361.07	9.79	548.422	
2,800.00	2,800.00	2,772.02	2,771.93	6.15	4.00	165.98	-5,210.85	1,301.60	5,370.95	5,360.79	10.16	528.702	
2,900.00	2,900.00	2,874.30	2,874.20	6.38	4.15	165.98	-5,210.96	1,301.38	5,371.00	5,360.47	10.54	509.746	
3,000.00	3,000.00	2,975.07	2,974.97	6.60	4.31	165.98	-5,211.07	1,300.99	5,371.02	5,360.10	10.92	492.038	
3,100.00	3,100.00	3,071.09	3,071.00	6.83	4.47	165.99	-5,211.19	1,300.72	5,371.07	5,359.77	11.30	475.340	
3,200.00	3,200.00	3,168.84	3,168.74	7.05	4.63	165.99	-5,211.33	1,300.64	5,371.19	5,359.50	11.69	459.569	
3,300.00	3,300.00	3,271.44	3,271.34	7.28	4.81	165.99	-5,211.46	1,300.57	5,371.30	5,359.21	12.09	444.347	
3,400.00	3,400.00	3,371.85	3,371.75	7.50	4.96	165.99	-5,211.56	1,300.45	5,371.37	5,358.88	12.49	430.152	
3,500.00	3,500.00	3,469.22	3,469.13	7.73	5.15	165.99	-5,211.68	1,300.36	5,371.47	5,358.58	12.88	416.908	
3,600.00	3,600.00	3,565.27	3,565.17	7.95	5.33	165.99	-5,211.84	1,300.35	5,371.62	5,358.34	13.28	404.441	
3,700.00	3,700.00	3,659.81	3,659.71	8.18	5.50	165.99	-5,212.10	1,300.26	5,371.87	5,358.19	13.68	392.687	
3,800.00	3,800.00	3,759.83	3,759.73	8.40	5.68	166.00	-5,212.49	1,300.08	5,372.20	5,358.11	14.09	381.340	
3,900.00	3,900.00	3,866.32	3,866.22	8.63	5.88	166.00	-5,212.80	1,299.85	5,372.43	5,357.93	14.51	370.333	
4,000.00	4,000.00	3,962.41	3,962.31	8.85	6.05	166.00	-5,213.05	1,299.60	5,372.62	5,357.71	14.91	360.343	
4,100.00	4,100.00	4,053.47	4,053.37	9.08	6.22	166.01	-5,213.44	1,299.27	5,372.95	5,357.65	15.30	351.074	
4,200.00	4,200.00	4,143.36	4,143.26	9.30	6.40	166.01	-5,214.00	1,298.91	5,373.46	5,357.76	15.70	342.255	
4,300.00	4,300.00	4,232.48	4,232.37	9.53	6.57	166.01	-5,214.69	1,298.75	5,374.17	5,358.07	16.10	333.865	
4,400.00	4,400.00	4,314.54	4,314.43	9.75	6.73	166.02	-5,215.46	1,298.85	5,375.11	5,358.63	16.48	326.137	
4,500.00	4,500.00	4,388.90	4,388.78	9.98	6.87	166.01	-5,216.37	1,299.45	5,376.49	5,359.63	16.85	319.042	
4,600.00	4,600.00	4,467.00	4,466.86	10.20	7.03	166.00	-5,217.56	1,300.69	5,378.35	5,361.12	17.23	312.147	
4,700.00	4,700.00	4,564.76	4,564.59	10.43	7.22	165.99	-5,219.19	1,302.64	5,380.44	5,362.79	17.65	304.917	
4,800.00	4,800.00	4,672.15	4,671.94	10.65	7.42	165.97	-5,220.85	1,304.66	5,382.40	5,364.32	18.08	297.773	
4,900.00	4,900.00	4,751.00	4,750.76	10.87	7.58	165.95	-5,222.05	1,306.61	5,384.49	5,366.04	18.45	291.793	

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

LEAM Drilling Systems LLC

Anticollision Report

Company: DEVON ENERGY
Project: Lea County, NM (NAD-83)

Reference Site: Thistle Unit

Site Error: 0.00 usft

Reference Well: 122H

Well Error: 0.00 usft

Reference Wellbore: OH

Reference Design: Plan #1

Local Co-ordinate Reference: Well 122H
TVD Reference: 3726.5' GL + 23.5' RKB @ 3750.00usft
(Original Well Elev)

MD Reference: 3726.5' GL + 23.5' RKB @ 3750.00usft
(Original Well Elev)

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

Database: EDM 5000.1 Single User Db

Offset TVD Reference: Offset Datum

Offset Design Thistle Unit - 54H - OH - OH												Offset Site Error: 0.00 usft	
Survey Program: 176-MWD-ISCWSA, 1469-LEAM MWD+HDGM, 15627-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 Tooface (")	Offset Wellbore Centre +N-S (usft)	+E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)		Separation Factor
5,000.00	5,000.00	4,824.58	4,824.29	11.10	7.72	165.93	-5,223.35	1,309.08	5,387.03	5,368.20	18.83	286.158	
5,100.00	5,100.00	4,929.99	4,929.60	11.32	7.93	165.89	-5,225.46	1,313.05	5,389.89	5,370.63	19.26	279.882	
5,200.00	5,200.00	5,097.56	5,097.10	11.55	8.26	165.86	-5,227.57	1,317.21	5,391.54	5,371.73	19.81	272.210	
5,300.00	5,300.00	5,191.38	5,190.90	11.77	8.44	165.84	-5,228.63	1,318.91	5,393.08	5,372.86	20.22	266.781	
5,400.00	5,400.00	5,300.75	5,300.26	12.00	8.66	165.83	-5,229.89	1,320.56	5,394.57	5,373.91	20.66	261.158	
5,500.00	5,500.00	5,402.00	5,401.48	12.22	8.86	165.81	-5,230.90	1,322.26	5,395.94	5,374.86	21.08	255.948	
5,600.00	5,600.00	5,482.31	5,481.76	12.45	9.02	165.79	-5,231.61	1,324.53	5,397.49	5,376.02	21.47	251.404	
5,700.00	5,700.00	5,558.45	5,557.83	12.67	9.18	165.76	-5,232.32	1,327.76	5,399.45	5,377.60	21.85	247.119	
5,800.00	5,800.00	5,632.88	5,632.12	12.90	9.33	165.72	-5,233.05	1,332.17	5,401.87	5,379.84	22.23	243.026	
5,900.00	5,900.00	5,730.47	5,729.39	13.12	9.53	165.64	-5,233.92	1,339.95	5,404.71	5,382.05	22.65	238.578	
6,000.00	6,000.00	5,862.36	5,860.77	13.35	9.85	165.51	-5,234.17	1,352.43	5,406.91	5,383.71	23.19	233.142	
6,100.00	6,100.00	5,990.06	5,988.13	13.57	10.07	165.42	-5,233.82	1,361.01	5,408.60	5,384.96	23.64	228.818	
6,200.00	6,200.00	6,106.32	6,104.05	13.80	10.31	165.33	-5,233.32	1,369.92	5,410.12	5,386.02	24.10	224.475	
6,300.00	6,300.00	6,239.82	6,237.21	14.02	10.58	165.23	-5,232.27	1,379.25	5,411.14	5,386.54	24.60	219.942	
6,400.00	6,400.00	6,334.27	6,331.45	14.25	10.78	165.17	-5,231.32	1,385.52	5,411.87	5,386.84	25.03	216.244	
6,500.00	6,500.00	6,424.04	6,421.00	14.47	10.97	165.10	-5,230.52	1,391.74	5,412.79	5,387.34	25.44	212.755	
6,600.00	6,600.00	6,503.89	6,500.83	14.70	11.14	165.04	-5,229.93	1,397.56	5,413.97	5,388.13	25.84	209.530	
6,700.00	6,700.00	6,580.86	6,577.37	14.92	11.31	164.98	-5,229.61	1,403.51	5,415.57	5,389.34	26.23	206.460	
6,800.00	6,800.00	6,668.45	6,664.67	15.15	11.50	164.90	-5,229.50	1,410.67	5,417.57	5,390.92	26.65	203.319	
6,900.00	6,900.00	6,778.53	6,774.39	15.37	11.74	164.81	-5,229.34	1,419.54	5,419.53	5,392.42	27.11	199.914	
7,000.00	7,000.00	6,870.42	6,866.00	15.59	11.94	164.74	-5,229.15	1,426.75	5,421.41	5,393.88	27.53	196.898	
7,100.00	7,100.00	6,950.43	6,945.75	15.82	12.12	164.67	-5,229.24	1,433.11	5,423.82	5,395.69	27.93	194.163	
7,200.00	7,200.00	7,036.46	7,031.50	16.04	12.30	164.60	-5,229.63	1,440.04	5,426.20	5,397.85	28.35	191.427	
7,300.00	7,300.00	7,142.73	7,137.45	16.27	12.54	164.52	-5,230.21	1,448.31	5,428.80	5,400.00	28.80	188.474	
7,400.00	7,400.00	7,250.60	7,245.03	16.49	12.77	164.44	-5,230.79	1,456.23	5,431.29	5,402.02	29.26	185.596	
7,500.00	7,500.00	7,360.21	7,354.39	16.72	13.01	164.37	-5,231.34	1,463.70	5,433.61	5,403.88	29.73	182.786	
7,600.00	7,600.00	7,464.51	7,458.46	16.94	13.24	164.30	-5,231.77	1,470.58	5,435.79	5,405.61	30.18	180.116	
7,700.00	7,700.00	7,568.93	7,560.61	17.17	13.47	164.23	-5,231.97	1,477.92	5,437.93	5,407.30	30.63	177.544	
7,800.00	7,800.00	7,668.18	7,661.60	17.39	13.69	164.15	-5,232.12	1,485.22	5,440.04	5,408.96	31.08	175.056	
7,900.00	7,900.00	7,766.00	7,759.21	17.62	13.90	164.09	-5,232.44	1,491.56	5,442.13	5,410.61	31.52	172.680	
8,000.00	8,000.00	7,862.88	7,855.91	17.84	14.12	164.03	-5,232.92	1,497.41	5,444.27	5,412.32	31.95	170.388	
8,100.00	8,100.00	7,955.00	7,947.87	18.07	14.32	163.98	-5,233.54	1,502.81	5,446.53	5,414.15	32.38	168.216	
8,200.00	8,200.00	8,049.84	8,042.56	18.29	14.53	163.93	-5,234.37	1,508.06	5,448.91	5,416.10	32.81	166.075	
8,300.00	8,300.00	8,145.00	8,137.59	18.52	14.74	163.88	-5,235.44	1,512.95	5,451.42	5,418.18	33.24	163.991	
8,400.00	8,400.00	8,253.92	8,246.39	18.74	14.97	163.83	-5,236.78	1,518.00	5,453.90	5,420.19	33.70	161.827	
8,500.00	8,500.00	8,360.10	8,352.47	18.97	15.20	163.79	-5,238.04	1,522.36	5,456.18	5,422.02	34.16	159.746	
8,600.00	8,600.00	8,453.33	8,445.63	19.19	15.40	163.76	-5,239.29	1,525.82	5,458.50	5,423.92	34.58	157.853	
8,700.00	8,700.00	8,549.87	8,542.10	19.42	15.61	163.73	-5,240.79	1,529.09	5,460.94	5,425.93	35.01	155.978	
8,800.00	8,800.00	8,656.14	8,648.30	19.64	15.84	163.71	-5,242.47	1,532.39	5,463.33	5,427.87	35.46	154.061	
8,900.00	8,900.00	8,760.00	8,752.11	19.87	16.06	163.68	-5,244.08	1,535.34	5,465.62	5,429.71	35.91	152.214	
9,000.00	9,000.00	8,861.30	8,853.36	20.09	16.27	163.66	-5,245.72	1,537.86	5,467.87	5,431.52	36.35	150.436	
9,100.00	9,100.00	8,968.51	8,960.54	20.31	16.50	163.64	-5,247.48	1,540.22	5,470.06	5,433.27	36.80	148.655	
9,184.54	9,184.54	9,062.37	9,054.36	20.50	16.70	163.63	-5,248.88	1,542.19	5,471.77	5,434.59	37.18	147.156	
9,200.00	9,200.00	9,079.54	9,071.52	20.54	16.73	-8.18	-5,249.12	1,542.54	5,471.82	5,434.61	37.21	147.058	
9,225.00	9,224.95	9,109.66	9,101.64	20.58	16.80	-8.20	-5,249.53	1,543.15	5,470.84	5,433.60	37.24	146.919	
9,250.00	9,249.80	9,140.91	9,132.88	20.62	16.86	-8.25	-5,249.93	1,543.73	5,468.54	5,431.34	37.20	147.020	
9,275.00	9,274.46	9,171.95	9,163.91	20.66	16.93	-8.32	-5,250.30	1,544.25	5,464.92	5,427.84	37.08	147.368	
9,300.00	9,298.88	9,202.70	9,194.66	20.71	16.99	-8.43	-5,250.65	1,544.71	5,460.00	5,423.10	36.90	147.964	
9,325.00	9,322.98	9,233.06	9,225.01	20.75	17.05	-8.56	-5,250.98	1,545.12	5,453.79	5,417.14	36.65	148.808	
9,350.00	9,348.71	9,262.95	9,254.90	20.79	17.12	-8.72	-5,251.28	1,545.47	5,448.31	5,409.97	36.33	149.903	

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 122H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3726.5' GL + 23.5' RKB @ 3750.00usft (Original Well Elev)
Reference Site:	Thistle Unit	MD Reference:	3726.5' GL + 23.5' RKB @ 3750.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	122H	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 Thistle Unit - 54H - OH - OH													Offset Site Error: 0.00 usft
Survey Program: 176-MWD-ISCWSA, 1469-LEAM MWD+HDGM, 15627-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	
9,375.00	9,369.99	9,289.10	9,281.05	20.83	17.17	-8.91	-5,251.53	1,545.75	5,437.58	5,401.63	35.94	151.276	
9,400.00	9,392.76	9,310.94	9,302.89	20.87	17.22	-9.13	-5,251.74	1,545.96	5,427.65	5,392.16	35.49	152.938	
9,425.00	9,414.96	9,332.26	9,324.20	20.91	17.26	-9.39	-5,251.95	1,546.16	5,416.56	5,381.58	34.98	154.857	
9,450.00	9,436.53	9,352.99	9,344.93	20.95	17.30	-9.69	-5,252.16	1,546.35	5,404.32	5,369.91	34.42	157.034	
9,475.00	9,457.41	9,373.08	9,365.02	21.00	17.35	-10.04	-5,252.37	1,546.52	5,390.99	5,357.18	33.81	159.484	
9,500.00	9,477.55	9,392.47	9,384.41	21.04	17.39	-10.44	-5,252.58	1,546.68	5,376.58	5,343.42	33.16	162.143	
9,525.00	9,498.87	9,411.12	9,403.05	21.09	17.43	-10.91	-5,252.79	1,546.82	5,361.15	5,328.67	32.48	165.054	
9,550.00	9,515.35	9,428.96	9,420.90	21.15	17.46	-11.45	-5,253.00	1,546.96	5,344.73	5,312.95	31.78	168.175	
9,575.00	9,532.91	9,445.96	9,437.89	21.21	17.50	-12.08	-5,253.19	1,547.08	5,327.38	5,296.31	31.07	171.468	
9,600.00	9,549.52	9,462.06	9,453.99	21.28	17.53	-12.81	-5,253.39	1,547.19	5,309.12	5,278.76	30.36	174.873	
9,625.00	9,565.13	9,480.88	9,472.81	21.35	17.57	-13.68	-5,253.61	1,547.31	5,290.02	5,260.34	29.68	178.246	
9,650.00	9,579.70	9,500.83	9,492.55	21.43	17.61	-14.72	-5,253.83	1,547.43	5,270.11	5,241.07	29.04	181.472	
9,675.00	9,593.18	9,518.90	9,510.82	21.52	17.65	-15.97	-5,254.02	1,547.53	5,249.46	5,220.99	28.47	184.395	
9,700.00	9,605.55	9,535.64	9,527.57	21.61	17.68	-17.47	-5,254.18	1,547.62	5,228.11	5,200.11	28.00	186.750	
9,725.00	9,616.76	9,550.82	9,542.75	21.72	17.72	-19.32	-5,254.32	1,547.69	5,206.13	5,178.47	27.67	188.181	
9,750.00	9,626.78	9,564.39	9,556.32	21.83	17.74	-21.62	-5,254.43	1,547.74	5,183.59	5,156.05	27.54	188.214	
9,775.00	9,635.60	9,576.33	9,568.25	21.95	17.77	-24.54	-5,254.52	1,547.79	5,160.34	5,132.84	27.71	186.259	
9,800.00	9,643.17	9,586.60	9,578.53	22.07	17.79	-28.35	-5,254.60	1,547.82	5,137.06	5,108.78	28.28	181.851	
9,825.00	9,649.49	9,595.19	9,587.11	22.21	17.81	-33.41	-5,254.66	1,547.85	5,113.21	5,083.79	29.42	173.793	
9,850.00	9,654.54	9,602.08	9,594.00	22.35	17.82	-40.34	-5,254.71	1,547.87	5,089.05	5,057.73	31.32	162.491	
9,875.00	9,658.30	9,607.25	9,599.17	22.51	17.83	-49.99	-5,254.74	1,547.89	5,064.66	5,030.57	34.09	148.568	
9,900.00	9,660.76	9,610.70	9,602.62	22.67	17.84	-63.29	-5,254.76	1,547.90	5,040.10	5,002.67	37.43	134.643	
9,925.00	9,661.91	9,612.43	9,604.35	22.83	17.84	-80.40	-5,254.77	1,547.90	5,015.44	4,975.38	40.06	125.194	
9,934.54	9,662.01	9,612.63	9,604.56	22.90	17.84	-87.57	-5,254.77	1,547.90	5,006.02	4,965.56	40.47	123.706	
10,000.00	9,662.01	9,613.18	9,605.11	23.36	17.84	-87.84	-5,254.78	1,547.91	4,941.47	4,900.54	40.93	120.728	
10,100.00	9,662.01	9,614.01	9,605.93	24.14	17.85	-88.16	-5,254.78	1,547.91	4,843.30	4,801.59	41.71	116.118	
10,200.00	9,662.00	9,614.82	9,606.74	25.03	17.85	-88.40	-5,254.79	1,547.91	4,745.76	4,703.16	42.59	111.418	
10,300.00	9,662.00	9,615.61	9,607.53	26.01	17.85	-88.59	-5,254.79	1,547.91	4,648.94	4,605.37	43.57	106.703	
10,400.00	9,662.00	9,616.39	9,608.31	27.08	17.85	-88.75	-5,254.80	1,547.91	4,552.97	4,508.35	44.62	102.042	
10,453.09	9,662.00	9,616.79	9,608.72	27.67	17.85	-88.82	-5,254.80	1,547.92	4,502.41	4,457.20	45.20	99.606	
10,500.00	9,662.00	9,617.15	9,609.07	28.21	17.85	-88.83	-5,254.80	1,547.92	4,457.88	4,412.14	45.74	97.463	
10,600.00	9,662.00	9,617.90	9,609.82	29.39	17.85	-88.86	-5,254.81	1,547.92	4,363.13	4,316.21	46.92	92.986	
10,700.00	9,662.00	9,618.64	9,610.57	30.63	17.86	-88.89	-5,254.81	1,547.92	4,268.81	4,220.44	48.17	88.617	
10,800.00	9,662.00	9,619.38	9,611.30	31.93	17.86	-88.92	-5,254.81	1,547.92	4,174.35	4,124.88	49.47	84.377	
10,900.00	9,662.00	9,620.11	9,612.03	33.28	17.86	-88.95	-5,254.82	1,547.92	4,080.37	4,029.54	50.83	80.281 CC, 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)

Local Co-ordinate Reference: Well 122H
TVD Reference: 3726.5' GL + 23.5' RKB @ 3750.00usft
(Original Well Elev)

Reference Site: Thistle Unit

MD Reference: 3726.5' GL + 23.5' RKB @ 3750.00usft
(Original Well Elev)

Site Error: 0.00 usft

North Reference: Grid

Reference Well: 122H

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 Thistle Unit - 60H - OH - OH														Offset Site Error: 0.00 usft
Survey Program: 154- VES GyroFlex V2, 1527-LEAM MWD+HDGM, 16045-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	165.36	-5,216.08	1,362.49	5,391.14					
100.00	100.00	56.79	56.79	0.09	0.04	165.36	-5,216.18	1,362.53	5,391.23	5,391.10	0.13	N/A		
200.00	200.00	131.21	131.21	0.31	0.10	165.36	-5,216.59	1,362.72	5,391.83	5,391.42	0.41	N/A		
300.00	300.00	213.05	213.04	0.54	0.18	165.36	-5,217.37	1,363.07	5,392.85	5,392.14	0.71	7,580.765		
400.00	400.00	334.80	334.78	0.76	0.27	165.36	-5,218.73	1,363.10	5,393.97	5,392.94	1.03	5,249.238		
500.00	500.00	446.19	446.16	0.99	0.33	165.38	-5,219.80	1,361.77	5,394.60	5,393.28	1.31	4,109.016		
600.00	600.00	537.92	537.88	1.21	0.37	165.39	-5,220.67	1,360.79	5,395.24	5,393.66	1.58	3,412.212		
700.00	700.00	647.76	647.71	1.43	0.43	165.40	-5,221.66	1,359.70	5,395.86	5,394.01	1.85	2,911.464		
800.00	800.00	757.39	757.34	1.66	0.47	165.41	-5,222.35	1,358.98	5,396.31	5,394.19	2.12	2,542.936		
900.00	900.00	864.44	864.39	1.88	0.52	165.42	-5,222.72	1,358.68	5,396.57	5,394.18	2.39	2,259.707		
1,000.00	1,000.00	961.92	961.87	2.11	0.56	165.42	-5,223.01	1,358.44	5,396.80	5,394.15	2.65	2,037.188		
1,100.00	1,100.00	1,068.36	1,068.31	2.33	0.61	165.43	-5,223.38	1,358.12	5,397.06	5,394.15	2.91	1,854.420		
1,200.00	1,200.00	1,167.22	1,167.16	2.56	0.64	165.43	-5,223.85	1,357.51	5,397.17	5,394.01	3.18	1,705.586		
1,300.00	1,300.00	1,273.10	1,273.03	2.78	0.68	165.45	-5,224.15	1,356.24	5,397.32	5,393.90	3.42	1,579.198		
1,400.00	1,400.00	1,391.26	1,391.17	3.01	0.72	165.47	-5,224.56	1,354.13	5,397.21	5,393.55	3.67	1,471.413		
1,500.00	1,500.00	1,505.84	1,505.74	3.23	0.76	165.49	-5,224.86	1,352.26	5,396.80	5,392.88	3.92	1,375.952		
1,600.00	1,600.00	1,617.25	1,617.14	3.46	0.85	165.50	-5,224.21	1,350.69	5,396.15	5,391.90	4.25	1,269.975		
1,700.00	1,700.00	1,726.19	1,726.06	3.68	0.96	165.52	-5,223.68	1,349.01	5,395.29	5,390.70	4.59	1,174.188		
1,800.00	1,800.00	1,820.60	1,820.46	3.91	1.10	165.53	-5,223.22	1,347.53	5,394.42	5,389.46	4.97	1,086.247		
1,900.00	1,900.00	1,906.00	1,905.85	4.13	1.23	165.55	-5,222.87	1,346.23	5,393.66	5,388.34	5.32	1,013.264		
2,000.00	2,000.00	1,999.05	1,998.89	4.36	1.39	165.56	-5,222.64	1,345.01	5,393.10	5,387.38	5.72	943.522		
2,100.00	2,100.00	2,095.00	2,094.84	4.58	1.56	165.57	-5,222.61	1,344.10	5,392.83	5,386.72	6.11	882.074		
2,200.00	2,200.00	2,179.36	2,179.19	4.81	1.73	165.57	-5,222.68	1,343.57	5,392.73	5,386.23	6.51	828.722		
2,293.67	2,293.67	2,270.13	2,269.97	5.02	1.91	165.58	-5,222.73	1,343.26	5,392.71	5,385.81	6.90	781.637		
2,300.00	2,300.00	2,276.27	2,276.10	5.03	1.92	165.58	-5,222.74	1,343.25	5,392.71	5,385.78	6.93	778.646		
2,400.00	2,400.00	2,380.52	2,380.35	5.26	2.13	165.58	-5,222.74	1,343.13	5,392.68	5,385.31	7.36	732.216		
2,500.00	2,500.00	2,483.91	2,483.75	5.48	2.34	165.58	-5,222.62	1,343.08	5,392.56	5,384.76	7.80	691.167		
2,596.95	2,596.95	2,573.42	2,573.25	5.70	2.52	165.58	-5,222.56	1,343.06	5,392.49	5,384.29	8.20	657.623		
2,600.00	2,600.00	2,576.23	2,576.07	5.71	2.53	165.58	-5,222.56	1,343.06	5,392.49	5,384.28	8.21	656.620		
2,700.00	2,700.00	2,669.42	2,669.25	5.93	2.71	165.58	-5,222.64	1,343.03	5,392.57	5,383.94	8.62	625.279		
2,800.00	2,800.00	2,773.97	2,773.80	6.15	2.92	165.58	-5,222.76	1,342.95	5,392.66	5,383.60	9.05	595.591		
2,900.00	2,900.00	2,878.09	2,877.92	6.38	3.12	165.58	-5,222.80	1,342.81	5,392.66	5,383.18	9.49	568.524		
3,000.00	3,000.00	2,981.01	2,980.84	6.60	3.33	165.58	-5,222.78	1,342.66	5,392.60	5,382.88	9.92	543.640		
3,100.00	3,100.00	3,077.21	3,077.04	6.83	3.52	165.58	-5,222.73	1,342.53	5,392.52	5,382.18	10.34	521.494		
3,105.94	3,105.94	3,082.40	3,082.24	6.84	3.54	165.58	-5,222.73	1,342.52	5,392.52	5,382.16	10.36	520.286		
3,200.00	3,200.00	3,164.73	3,164.56	7.05	3.70	165.59	-5,222.85	1,342.41	5,392.62	5,381.88	10.74	501.880		
3,300.00	3,300.00	3,258.73	3,258.56	7.28	3.90	165.59	-5,223.20	1,342.28	5,392.94	5,381.78	11.16	483.151		
3,400.00	3,400.00	3,369.63	3,369.46	7.50	4.12	165.59	-5,223.52	1,342.05	5,393.17	5,381.55	11.61	464.422		
3,500.00	3,500.00	3,472.96	3,472.79	7.73	4.33	165.59	-5,223.66	1,341.77	5,393.23	5,381.18	12.05	447.531		
3,600.00	3,600.00	3,570.85	3,570.69	7.95	4.54	165.60	-5,223.79	1,341.61	5,393.32	5,380.84	12.48	432.130		
3,700.00	3,700.00	3,663.69	3,663.52	8.18	4.73	165.60	-5,223.95	1,341.52	5,393.47	5,380.57	12.90	418.145		
3,800.00	3,800.00	3,753.81	3,753.64	8.40	4.92	165.60	-5,224.29	1,341.39	5,393.80	5,380.49	13.31	405.244		
3,900.00	3,900.00	3,856.31	3,856.14	8.63	5.13	165.60	-5,224.81	1,341.23	5,394.24	5,380.49	13.75	392.265		
4,000.00	4,000.00	3,974.93	3,974.75	8.85	5.37	165.60	-5,224.99	1,341.37	5,394.42	5,380.20	14.22	379.398		
4,100.00	4,100.00	4,074.61	4,074.44	9.08	5.58	165.60	-5,224.96	1,341.55	5,394.44	5,379.79	14.65	368.244		
4,200.00	4,200.00	4,174.00	4,173.83	9.30	5.79	165.60	-5,225.05	1,341.42	5,394.49	5,379.41	15.08	357.747		
4,300.00	4,300.00	4,253.61	4,253.44	9.53	5.95	165.60	-5,225.26	1,341.38	5,394.74	5,379.27	15.47	348.764		
4,400.00	4,400.00	4,334.14	4,333.96	9.75	6.12	165.60	-5,225.88	1,341.70	5,395.34	5,379.48	15.86	340.204		
4,500.00	4,500.00	4,415.78	4,415.60	9.98	6.29	165.59	-5,226.31	1,342.41	5,396.30	5,380.04	16.26	331.966		
4,600.00	4,600.00	4,498.03	4,497.84	10.20	6.46	165.59	-5,227.12	1,343.53	5,397.59	5,380.93	16.66	324.080		
4,700.00	4,700.00	4,615.66	4,615.44	10.43	6.71	165.57	-5,228.33	1,345.76	5,399.10	5,381.97	17.13	315.198		

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

LEAM Drilling Systems LLC

Anticollision Report

Company: DEVON ENERGY
Project: Lea County, NM (NAD-83)

Reference Site: Thistle Unit

Site Error: 0.00 usft

Reference Well: 122H

Well Error: 0.00 usft

Reference Wellbore: OH

Reference Design: Plan #1

Local Co-ordinate Reference:

TVD Reference: 3726.5' GL + 23.5' RKB @ 3750.00usft
(Original Well Elev)

MD Reference: 3726.5' GL + 23.5' RKB @ 3750.00usft
(Original Well Elev)

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

Database: EDM 5000.1 Single User Db

Offset TVD Reference: Offset Datum

Offset Design Thistle Unit - 60H - OH - OH													Offset Site Error: 0.00 usft
Survey Program: 154- VES GyroFlex V2, 1527-LEAM MWD+HDGM, 16045-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	
4,800.00	4,800.00	4,764.22	4,763.96	10.85	7.03	165.53	-5,228.20	1,349.32	5,399.53	5,381.86	17.87	305.607	
4,900.00	4,900.00	4,836.00	4,835.70	10.87	7.18	165.51	-5,228.05	1,351.50	5,400.06	5,382.02	18.04	299.260	
5,000.00	5,000.00	5,091.06	5,090.64	11.10	7.71	165.43	-5,224.69	1,358.02	5,399.51	5,380.71	18.80	287.251	
5,100.00	5,100.00	5,163.55	5,163.10	11.32	7.85	165.42	-5,222.99	1,358.90	5,397.57	5,378.40	19.17	281.568	
5,200.00	5,200.00	5,238.02	5,237.56	11.55	8.01	165.40	-5,221.72	1,359.93	5,396.25	5,376.70	19.55	276.025	
5,300.00	5,300.00	5,327.45	5,326.96	11.77	8.20	165.38	-5,220.39	1,361.49	5,395.25	5,375.28	19.96	270.248	
5,400.00	5,400.00	5,490.86	5,490.23	12.00	8.55	165.32	-5,216.76	1,366.86	5,394.06	5,373.52	20.54	262.601	
5,500.00	5,500.00	5,639.41	5,638.27	12.22	8.87	165.20	-5,209.95	1,376.99	5,391.28	5,370.19	21.09	255.666	
5,600.00	5,600.00	5,736.28	5,734.74	12.45	9.07	165.11	-5,205.02	1,384.32	5,388.29	5,366.77	21.52	250.371	
5,700.00	5,700.00	5,829.31	5,827.34	12.67	9.27	165.02	-5,200.26	1,391.82	5,385.42	5,363.47	21.95	245.374	
5,800.00	5,800.00	5,916.74	5,914.35	12.90	9.47	164.93	-5,195.82	1,399.27	5,382.71	5,360.34	22.37	240.666	
5,900.00	5,900.00	6,000.06	5,997.25	13.12	9.66	164.84	-5,191.79	1,406.52	5,380.30	5,357.53	22.78	236.213	
6,000.00	6,000.00	6,087.02	6,083.78	13.35	9.85	164.75	-5,187.82	1,414.21	5,378.20	5,355.01	23.20	231.864	
6,100.00	6,100.00	6,164.00	6,162.91	13.57	10.07	92.03	-60.97	1,719.63	5,294.05	5,200.04	94.00	56.317	
6,200.00	6,200.00	6,240.00	6,240.91	13.80	10.27	92.03	-60.97	1,719.63	5,199.56	5,105.35	94.23	55.181	
6,300.00	6,300.00	6,316.00	6,316.91	14.02	10.47	92.03	-60.97	1,719.63	5,105.32	5,010.87	94.45	54.051	
6,400.00	6,400.00	6,392.00	6,392.91	14.25	10.67	92.03	-60.97	1,719.63	5,011.28	4,916.61	94.68	52.930	
6,500.00	6,500.00	6,468.00	6,468.91	14.47	10.87	92.03	-60.97	1,719.63	4,917.48	4,822.58	94.90	51.816	
6,600.00	6,600.00	6,544.00	6,544.91	14.70	11.07	92.03	-60.97	1,719.63	4,823.93	4,728.81	95.13	50.710	
6,700.00	6,700.00	6,620.00	6,620.91	14.92	11.27	92.03	-60.97	1,719.63	4,730.65	4,635.29	95.35	49.612	
6,800.00	6,800.00	6,696.00	6,696.91	15.15	11.47	92.03	-60.97	1,719.63	4,637.64	4,542.06	95.58	48.523	
6,900.00	6,900.00	6,772.00	6,772.91	15.37	11.67	92.03	-60.97	1,719.63	4,544.93	4,449.13	95.80	47.441	
7,000.00	7,000.00	6,848.00	6,848.91	15.59	11.87	92.03	-60.97	1,719.63	4,452.53	4,356.51	96.03	46.368	
7,100.00	7,100.00	6,924.00	6,924.91	15.82	12.07	92.03	-60.97	1,719.63	4,360.47	4,264.22	96.25	45.303	
7,200.00	7,200.00	7,000.00	7,000.91	16.04	12.27	92.03	-60.97	1,719.63	4,268.77	4,172.29	96.48	44.247	
7,300.00	7,300.00	7,076.00	7,076.91	16.27	12.47	92.03	-60.97	1,719.63	4,177.45	4,080.75	96.70	43.200	
7,400.00	7,400.00	7,152.00	7,152.91	16.49	12.67	92.03	-60.97	1,719.63	4,086.53	3,989.61	96.93	42.162	
7,500.00	7,500.00	7,228.00	7,228.91	16.72	12.87	92.03	-60.97	1,719.63	3,996.05	3,898.90	97.15	41.133	
7,600.00	7,600.00	7,304.00	7,304.91	16.94	13.07	92.03	-60.97	1,719.63	3,906.04	3,808.66	97.38	40.113	
7,700.00	7,700.00	7,380.00	7,380.91	17.17	13.27	92.03	-60.97	1,719.63	3,816.52	3,718.92	97.60	39.104	
7,800.00	7,800.00	7,456.00	7,456.91	17.39	13.47	92.03	-60.97	1,719.63	3,727.53	3,629.70	97.82	38.104	
7,900.00	7,900.00	7,532.00	7,532.91	17.62	13.67	92.03	-60.97	1,719.63	3,639.11	3,541.06	98.05	37.115	
8,000.00	8,000.00	7,608.00	7,608.91	17.84	13.87	92.03	-60.97	1,719.63	3,551.31	3,453.04	98.27	36.137	
8,100.00	8,100.00	7,684.00	7,684.91	18.07	14.07	92.03	-60.97	1,719.63	3,464.18	3,365.66	98.50	35.170	
8,200.00	8,200.00	7,760.00	7,760.91	18.29	14.27	92.03	-60.97	1,719.63	3,377.75	3,279.03	98.72	34.214	
8,300.00	8,300.00	7,836.00	7,836.91	18.52	14.47	92.03	-60.97	1,719.63	3,292.09	3,193.14	98.95	33.271	
8,400.00	8,400.00	7,912.00	7,912.91	18.74	14.67	92.03	-60.97	1,719.63	3,207.26	3,108.09	99.17	32.340	
8,500.00	8,500.00	7,988.00	7,988.91	18.97	14.87	92.03	-60.97	1,719.63	3,123.34	3,023.94	99.40	31.423	
8,600.00	8,600.00	8,064.00	8,064.91	19.19	15.07	92.03	-60.97	1,719.63	3,040.38	2,940.76	99.62	30.519	
8,700.00	8,700.00	8,140.00	8,140.91	19.42	15.27	92.03	-60.97	1,719.63	2,958.48	2,858.63	99.85	29.630	
8,800.00	8,800.00	8,216.00	8,216.91	19.64	15.47	92.03	-60.97	1,719.63	2,877.72	2,777.65	100.07	28.756	
8,900.00	8,900.00	8,292.00	8,292.91	19.87	15.67	92.03	-60.97	1,719.63	2,798.20	2,697.91	100.30	27.899	
9,000.00	9,000.00	8,368.00	8,368.91	20.09	15.87	92.03	-60.97	1,719.63	2,720.04	2,619.52	100.52	27.059	
9,100.00	9,100.00	8,444.00	8,444.91	20.31	16.07	92.03	-60.97	1,719.63	2,643.35	2,542.60	100.75	26.238	
9,184.54	9,184.54	8,520.00	8,520.91	20.50	16.27	92.03	-60.97	1,719.63	2,579.76	2,478.82	100.94	25.558	
9,200.00	9,200.00	8,596.00	8,596.91	20.54	16.47	-81.82	-60.97	1,719.63	2,568.24	2,467.01	101.23	25.370	
9,225.00	9,224.95	8,672.00	8,672.91	20.58	16.67	-85.15	-60.97	1,719.63	2,549.59	2,448.74	100.85	25.281	
9,250.00	9,249.80	8,748.00	8,748.91	20.62	16.87	-88.49	-60.97	1,719.63	2,530.98	2,430.76	100.22	25.254 SF	
9,275.00	9,274.46	8,824.00	8,824.91	20.66	17.07	-91.80	-60.97	1,719.63	2,512.46	2,413.10	99.36	25.267	
9,300.00	9,298.88	8,900.00	8,900.91	20.71	17.27	-95.05	-60.97	1,719.63	2,494.08	2,395.79	98.29	25.376	

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 122H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3726.5' GL + 23.5' RKB @ 3750.00usft (Original Well Elev)
Reference Site:	Thistle Unit	MD Reference:	3726.5' GL + 23.5' RKB @ 3750.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	122H	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 Thistle Unit - 60H - OH - OH														Offset Site Error:	0.00 usft
Survey Program: 154- VES GyroFlex V2, 1527-LEAM MWD+HDGM, 16045-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		
9,325.00	9,322.98	16,045.00	11,082.91	20.75	80.87	-98.21	-60.97	1,719.63	2,475.89	2,378.85	97.04	25.515			
9,350.00	9,346.71	16,045.00	11,082.91	20.79	80.87	-101.26	-60.97	1,719.63	2,457.95	2,382.30	95.65	25.597			
9,375.00	9,369.99	16,040.00	11,083.12	20.83	80.87	-104.03	-65.96	1,719.32	2,440.31	2,346.04	94.27	25.886			
9,400.00	9,392.76	16,028.92	11,083.61	20.87	80.87	-106.53	-77.01	1,718.64	2,423.00	2,330.00	93.00	26.055			
9,425.00	9,414.96	16,016.71	11,084.14	20.91	80.87	-108.88	-89.18	1,717.90	2,406.03	2,314.29	91.73	26.228			
9,450.00	9,436.53	16,003.40	11,084.73	20.95	80.87	-111.08	-102.44	1,717.06	2,389.45	2,298.97	90.47	26.410			
9,475.00	9,457.41	15,988.24	11,085.39	21.00	80.80	-113.11	-117.57	1,716.15	2,373.29	2,284.00	89.29	26.579			
9,500.00	9,477.55	15,969.78	11,086.17	21.04	80.52	-114.98	-135.97	1,715.03	2,357.58	2,269.59	87.99	26.793			
9,525.00	9,496.87	15,950.24	11,086.96	21.09	80.22	-116.71	-155.46	1,713.83	2,342.34	2,255.58	86.76	26.997			
9,550.00	9,515.35	15,929.67	11,087.75	21.15	79.91	-118.33	-175.98	1,712.57	2,327.60	2,241.99	85.61	27.188			
9,575.00	9,532.91	15,909.09	11,088.50	21.21	79.60	-119.84	-196.51	1,711.32	2,313.38	2,228.83	84.55	27.362			
9,600.00	9,549.52	15,888.81	11,089.19	21.28	79.30	-121.26	-216.74	1,710.10	2,299.73	2,216.16	83.58	27.517			
9,625.00	9,565.13	15,867.74	11,089.85	21.35	78.99	-122.58	-237.76	1,708.86	2,286.88	2,203.99	82.69	27.654			
9,650.00	9,579.70	15,845.94	11,090.49	21.43	78.67	-123.80	-259.51	1,707.62	2,274.24	2,192.36	81.88	27.775			
9,675.00	9,593.18	15,823.47	11,091.09	21.52	78.34	-124.93	-281.95	1,706.36	2,262.45	2,181.30	81.16	27.878			
9,700.00	9,605.55	15,805.89	11,091.54	21.61	78.09	-126.01	-299.49	1,705.41	2,251.36	2,170.82	80.54	27.953			
9,725.00	9,616.76	15,787.93	11,092.01	21.72	77.83	-126.99	-317.42	1,704.46	2,241.02	2,161.01	80.01	28.010			
9,750.00	9,626.78	15,769.53	11,092.52	21.83	77.56	-127.89	-335.79	1,703.53	2,231.45	2,151.90	79.55	28.050			
9,775.00	9,635.60	15,750.75	11,093.05	21.95	77.29	-128.70	-354.54	1,702.61	2,222.68	2,143.51	79.17	28.073			
9,800.00	9,643.17	15,729.00	11,093.69	22.07	76.97	-129.43	-376.26	1,701.59	2,214.73	2,135.89	78.84	28.090			
9,825.00	9,649.49	15,709.67	11,094.25	22.21	76.68	-130.09	-395.56	1,700.73	2,207.81	2,129.01	78.60	28.087			
9,850.00	9,654.54	15,687.07	11,094.86	22.35	76.34	-130.66	-418.13	1,699.78	2,201.32	2,122.94	78.39	28.082			
9,875.00	9,658.30	15,664.29	11,095.42	22.51	75.99	-131.20	-440.89	1,698.89	2,195.86	2,117.64	78.24	28.068			
9,900.00	9,660.76	15,641.37	11,095.94	22.67	75.65	-131.66	-463.78	1,698.06	2,191.30	2,113.15	78.15	28.039			
9,925.00	9,661.91	15,617.24	11,096.43	22.83	75.28	-132.05	-487.89	1,697.25	2,187.60	2,109.49	78.11	28.007			
9,934.54	9,662.01	15,607.78	11,096.61	22.90	75.14	-132.19	-497.35	1,696.95	2,186.42	2,108.31	78.10	27.994			
10,000.00	9,662.01	15,542.66	11,097.53	23.36	74.15	-132.32	-562.44	1,695.13	2,179.15	2,101.42	77.72	28.038			
10,100.00	9,662.01	15,443.99	11,098.37	24.14	72.87	-132.48	-661.07	1,692.85	2,169.67	2,092.46	77.21	28.100			
10,200.00	9,662.00	15,332.08	11,098.67	25.03	71.03	-132.63	-772.96	1,690.44	2,161.87	2,085.24	76.63	28.211			
10,300.00	9,662.00	15,229.23	11,098.75	26.01	69.55	-132.73	-875.78	1,687.78	2,155.56	2,079.31	76.26	28.267			
10,400.00	9,662.00	15,134.53	11,100.03	27.08	68.18	-132.82	-970.41	1,684.56	2,151.45	2,075.46	75.99	28.312			
10,453.09	9,662.00	15,069.14	11,100.69	27.67	67.23	-132.88	-1,035.76	1,682.28	2,149.90	2,074.21	75.69	28.405			
10,500.00	9,662.00	15,034.63	11,100.86	28.21	66.75	-132.91	-1,070.26	1,681.20	2,148.75	2,073.06	75.69	28.390			
10,600.00	9,662.00	14,963.77	11,101.59	29.39	65.75	-132.96	-1,141.10	1,679.71	2,147.35	2,071.59	75.75	28.346			
10,700.00	9,662.00	14,861.64	11,103.21	30.63	64.31	-133.04	-1,243.19	1,677.77	2,146.50	2,071.01	75.50	28.432			
10,800.00	9,662.00	14,764.43	11,105.78	31.93	62.90	-133.15	-1,340.33	1,675.13	2,145.77	2,070.48	75.29	28.500			
10,900.00	9,662.00	14,647.40	11,107.97	33.28	61.17	-133.26	-1,457.30	1,672.07	2,144.62	2,069.74	74.87	28.643 CC, ES			

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

LEAM Drilling Systems LLC

Anticollision Report

Company: DEVON ENERGY
Project: Lea County, NM (NAD-83)

Reference Site: Thistle Unit

Site Error: 0.00 usft

Reference Well: 122H

Well Error: 0.00 usft

Reference Wellbore: OH

Reference Design: Plan #1

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Output errors are at

Database:

Offset TVD Reference:

Well 122H

3726.5' GL + 23.5' RKB @ 3750.00usft
(Original Well Elev)

3726.5' GL + 23.5' RKB @ 3750.00usft
(Original Well Elev)

Grid

Minimum Curvature

2.00 sigma

EDM 5000.1 Single User Db

Offset Datum

Offset Design Thistle Unit - 77H - OH - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-LEAM MWD-ADJ													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		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	89.63	0.65	99.98	99.98					
100.00	100.00	100.90	100.90	0.09	0.09	89.63	0.65	99.98	99.98	99.81	0.17	574.712		
200.00	200.00	200.90	200.90	0.31	0.31	89.63	0.65	99.98	99.98	99.36	0.62	160.356		
300.00	300.00	300.90	300.90	0.54	0.54	89.63	0.65	99.98	99.98	98.91	1.07	93.177		
400.00	400.00	400.90	400.90	0.76	0.76	89.63	0.65	99.98	99.98	98.46	1.52	65.967		
500.00	500.00	500.90	500.90	0.99	0.99	89.63	0.65	99.98	99.98	98.01	1.97	50.898		
600.00	600.00	600.90	600.90	1.21	1.21	89.63	0.65	99.98	99.98	97.56	2.42	41.287		
700.00	700.00	700.90	700.90	1.43	1.44	89.63	0.65	99.98	99.98	97.11	2.87	34.823		
800.00	800.00	800.90	800.90	1.66	1.66	89.63	0.65	99.98	99.98	96.66	3.32	30.109		
900.00	900.00	900.90	900.90	1.88	1.89	89.63	0.65	99.98	99.98	96.21	3.77	26.519		
1,000.00	1,000.00	1,000.90	1,000.90	2.11	2.11	89.63	0.65	99.98	99.98	95.76	4.22	23.694		
1,100.00	1,100.00	1,100.90	1,100.90	2.33	2.34	89.63	0.65	99.98	99.98	95.31	4.67	21.413		
1,200.00	1,200.00	1,200.90	1,200.90	2.56	2.56	89.63	0.65	99.98	99.98	94.86	5.12	19.532		
1,300.00	1,300.00	1,300.90	1,300.90	2.78	2.79	89.63	0.65	99.98	99.98	94.41	5.57	17.955		
1,400.00	1,400.00	1,400.90	1,400.90	3.01	3.01	89.63	0.65	99.98	99.98	93.96	6.02	16.614		
1,500.00	1,500.00	1,500.90	1,500.90	3.23	3.23	89.63	0.65	99.98	99.98	93.51	6.47	15.459		
1,600.00	1,600.00	1,600.90	1,600.90	3.46	3.46	89.63	0.65	99.98	99.98	93.07	6.92	14.455		
1,700.00	1,700.00	1,700.90	1,700.90	3.68	3.68	89.63	0.65	99.98	99.98	92.62	7.37	13.573		
1,800.00	1,800.00	1,800.90	1,800.90	3.91	3.91	89.63	0.65	99.98	99.98	92.17	7.82	12.792		
1,900.00	1,900.00	1,900.90	1,900.90	4.13	4.13	89.63	0.65	99.98	99.98	91.72	8.27	12.096		
2,000.00	2,000.00	2,000.90	2,000.90	4.36	4.36	89.63	0.65	99.98	99.98	91.27	8.72	11.472		
2,100.00	2,100.00	2,100.90	2,100.90	4.58	4.58	89.63	0.65	99.98	99.98	90.82	9.16	10.910		
2,200.00	2,200.00	2,200.90	2,200.90	4.81	4.81	89.63	0.65	99.98	99.98	90.37	9.61	10.399		
2,300.00	2,300.00	2,300.90	2,300.90	5.03	5.03	89.63	0.65	99.98	99.98	89.92	10.06	9.935		
2,400.00	2,400.00	2,400.90	2,400.90	5.26	5.26	89.63	0.65	99.98	99.98	89.47	10.51	9.510		
2,500.00	2,500.00	2,500.90	2,500.90	5.48	5.48	89.63	0.65	99.98	99.98	89.02	10.96	9.120		
2,600.00	2,600.00	2,600.90	2,600.90	5.71	5.71	89.63	0.65	99.98	99.98	88.57	11.41	8.761		
2,700.00	2,700.00	2,700.90	2,700.90	5.93	5.93	89.63	0.65	99.98	99.98	88.12	11.86	8.429		
2,800.00	2,800.00	2,800.90	2,800.90	6.15	6.16	89.63	0.65	99.98	99.98	87.67	12.31	8.121		
2,900.00	2,900.00	2,900.90	2,900.90	6.38	6.38	89.63	0.65	99.98	99.98	87.22	12.76	7.835		
3,000.00	3,000.00	3,000.90	3,000.90	6.60	6.61	89.63	0.65	99.98	99.98	86.77	13.21	7.568		
3,100.00	3,100.00	3,100.90	3,100.90	6.83	6.83	89.63	0.65	99.98	99.98	86.32	13.66	7.319		
3,200.00	3,200.00	3,200.90	3,200.90	7.05	7.06	89.63	0.65	99.98	99.98	85.87	14.11	7.086		
3,300.00	3,300.00	3,300.90	3,300.90	7.28	7.28	89.63	0.65	99.98	99.98	85.42	14.56	6.867		
3,400.00	3,400.00	3,400.90	3,400.90	7.50	7.51	89.63	0.65	99.98	99.98	84.97	15.01	6.662		
3,500.00	3,500.00	3,500.90	3,500.90	7.73	7.73	89.63	0.65	99.98	99.98	84.52	15.46	6.468		
3,600.00	3,600.00	3,600.90	3,600.90	7.95	7.95	89.63	0.65	99.98	99.98	84.07	15.91	6.285		
3,700.00	3,700.00	3,700.90	3,700.90	8.18	8.18	89.63	0.65	99.98	99.98	83.62	16.36	6.112		
3,800.00	3,800.00	3,800.90	3,800.90	8.40	8.40	89.63	0.65	99.98	99.98	83.18	16.81	5.949		
3,900.00	3,900.00	3,900.90	3,900.90	8.63	8.63	89.63	0.65	99.98	99.98	82.73	17.26	5.794		
4,000.00	4,000.00	4,000.90	4,000.90	8.85	8.85	89.63	0.65	99.98	99.98	82.28	17.71	5.647		
4,100.00	4,100.00	4,100.90	4,100.90	9.08	9.08	89.63	0.65	99.98	99.98	81.83	18.16	5.507		
4,200.00	4,200.00	4,200.90	4,200.90	9.30	9.30	89.63	0.65	99.98	99.98	81.38	18.60	5.374		
4,300.00	4,300.00	4,300.90	4,300.90	9.53	9.53	89.63	0.65	99.98	99.98	80.93	19.05	5.247		
4,400.00	4,400.00	4,400.90	4,400.90	9.75	9.75	89.63	0.65	99.98	99.98	80.48	19.50	5.126		
4,500.00	4,500.00	4,500.90	4,500.90	9.98	9.98	89.63	0.65	99.98	99.98	80.03	19.95	5.011		
4,600.00	4,600.00	4,600.90	4,600.90	10.20	10.20	89.63	0.65	99.98	99.98	79.58	20.40	4.900		
4,700.00	4,700.00	4,700.90	4,700.90	10.43	10.43	89.63	0.65	99.98	99.98	79.13	20.85	4.795		
4,800.00	4,800.00	4,800.90	4,800.90	10.65	10.65	89.63	0.65	99.98	99.98	78.68	21.30	4.694		
4,900.00	4,900.00	4,900.90	4,900.90	10.87	10.88	89.63	0.65	99.98	99.98	78.23	21.75	4.597		
5,000.00	5,000.00	5,000.90	5,000.90	11.10	11.10	89.63	0.65	99.98	99.98	77.78	22.20	4.503		

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)

Local Co-ordinate Reference: Well 122H
TVD Reference: 3726.5' GL + 23.5' RKB @ 3750.00usft
(Original Well Elev)

Reference Site: Thistle Unit

MD Reference: 3726.5' GL + 23.5' RKB @ 3750.00usft
(Original Well Elev)

Site Error: 0.00 usft

North Reference: Grid

Reference Well: 122H

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 Thistle Unit - 77H - OH - Plan #1														Offset Site Error: 0.00 usft
Survey Program: 0-LEAM MWD-ADJ														Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toothface (")	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	5,100.00	5,100.90	5,100.90	11.32	11.33	89.63	0.65	99.98	99.98	77.33	22.85	4.414		
5,131.41	5,131.41	5,132.31	5,132.31	11.39	11.40	89.55	0.79	99.98	99.98	77.19	22.79	4.387 CC		
5,200.00	5,200.00	5,200.88	5,200.87	11.55	11.55	88.86	1.98	99.97	99.99	76.89	23.10	4.329		
5,300.00	5,300.00	5,300.72	5,300.63	11.77	11.78	88.61	5.92	99.94	100.12	76.57	23.55	4.252 ES		
5,400.00	5,400.00	5,400.29	5,399.98	12.00	12.00	82.90	12.45	99.89	100.87	76.68	23.99	4.196		
5,500.00	5,500.00	5,499.80	5,499.13	12.22	12.22	78.13	20.98	99.83	102.03	77.59	24.44	4.175 SF		
5,600.00	5,600.00	5,599.42	5,598.37	12.45	12.45	73.44	29.66	99.77	104.11	79.22	24.89	4.183		
5,700.00	5,700.00	5,699.04	5,697.61	12.67	12.67	68.97	38.34	99.70	106.87	81.53	25.34	4.218		
5,800.00	5,800.00	5,798.66	5,796.85	12.90	12.90	64.74	47.02	99.64	110.25	84.46	25.79	4.275		
5,900.00	5,900.00	5,898.28	5,896.09	13.12	13.12	60.78	55.71	99.58	114.20	87.95	26.25	4.351		
6,000.00	6,000.00	5,997.90	5,995.33	13.35	13.35	57.10	64.39	99.51	118.86	91.96	26.70	4.444		
6,100.00	6,100.00	5,997.52	5,994.57	13.57	13.59	53.69	73.07	99.45	123.57	96.41	27.16	4.550		
6,200.00	6,200.00	5,997.14	5,993.81	13.80	13.82	50.56	81.75	99.39	128.88	101.27	27.61	4.668		
6,300.00	6,300.00	5,996.76	5,992.05	14.02	14.05	47.88	90.44	99.32	134.55	106.49	28.07	4.794		
6,400.00	6,400.00	5,996.38	5,992.29	14.25	14.29	45.04	99.12	99.28	140.54	112.01	28.52	4.927		
6,500.00	6,500.00	5,996.00	5,991.53	14.47	14.53	42.82	107.80	99.19	146.79	117.81	28.98	5.066		
6,600.00	6,600.00	5,995.62	5,990.77	14.70	14.77	40.40	116.48	99.13	153.29	123.86	29.43	5.208		
6,700.00	6,700.00	5,995.24	5,990.01	14.92	15.00	38.36	125.16	99.07	160.00	130.11	29.89	5.353		
6,800.00	6,800.00	5,994.86	5,989.25	15.15	15.24	36.49	133.85	99.00	166.89	136.55	30.34	5.500		
6,900.00	6,900.00	5,994.48	5,988.49	15.37	15.49	34.77	142.53	98.94	173.95	143.15	30.80	5.648		
7,000.00	7,000.00	5,994.10	5,987.73	15.59	15.73	33.18	151.21	98.88	181.15	149.89	31.26	5.796		
7,100.00	7,100.00	5,993.72	5,986.98	15.82	15.97	31.72	159.89	98.81	188.48	156.77	31.71	5.944		
7,200.00	7,200.00	5,993.34	5,986.22	16.04	16.21	30.36	168.57	98.75	195.92	163.75	32.17	6.091		
7,300.00	7,300.00	5,992.96	5,985.46	16.27	16.46	29.11	177.26	98.69	203.46	170.84	32.62	6.237		
7,400.00	7,400.00	5,992.57	5,984.70	16.49	16.70	27.94	185.94	98.62	211.10	178.02	33.08	6.382		
7,500.00	7,500.00	5,992.19	5,983.94	16.72	16.94	26.89	194.39	98.56	218.39	184.87	33.52	6.515		
7,600.00	7,600.00	5,991.81	5,983.18	16.94	17.14	26.18	200.42	98.52	223.49	189.56	33.93	6.588		
7,700.00	7,700.00	5,991.43	5,982.42	17.17	17.32	25.82	203.55	98.49	226.15	191.82	34.33	6.587		
7,800.00	7,800.00	5,991.05	5,981.66	17.39	17.51	25.77	204.03	98.49	226.55	191.81	34.74	6.521		
7,900.00	7,900.00	5,990.67	5,980.90	17.62	17.73	25.77	204.03	98.49	226.55	191.36	35.19	6.438		
8,000.00	8,000.00	5,990.29	5,980.14	17.84	17.95	25.77	204.03	98.49	226.55	190.92	35.64	6.357		
8,100.00	8,100.00	5,989.91	5,979.38	18.07	18.17	25.77	204.03	98.49	226.55	190.47	36.08	6.278		
8,200.00	8,200.00	5,989.53	5,978.62	18.29	18.39	25.77	204.03	98.49	226.55	190.02	36.53	6.202		
8,300.00	8,300.00	5,989.15	5,977.86	18.52	18.61	25.77	204.03	98.49	226.55	189.57	36.98	6.126		
8,400.00	8,400.00	5,988.77	5,977.10	18.74	18.83	25.77	204.03	98.49	226.55	189.13	37.43	6.053		
8,500.00	8,500.00	5,988.39	5,976.34	18.97	19.05	25.77	204.03	98.49	226.55	188.68	37.87	5.982		
8,600.00	8,600.00	5,988.01	5,975.58	19.19	19.27	25.77	204.03	98.49	226.55	188.23	38.32	5.912		
8,700.00	8,700.00	5,987.63	5,974.82	19.42	19.49	25.77	204.03	98.49	226.55	187.78	38.77	5.844		
8,800.00	8,800.00	5,987.25	5,974.06	19.64	19.71	25.77	204.03	98.49	226.55	187.34	39.22	5.777		
8,900.00	8,900.00	5,986.87	5,973.30	19.87	19.93	25.77	204.03	98.49	226.55	186.89	39.67	5.712		
9,000.00	9,000.00	5,986.49	5,972.54	20.09	20.16	25.77	204.03	98.49	226.55	186.44	40.11	5.648		
9,100.00	9,100.00	5,986.11	5,971.78	20.31	20.38	25.77	204.03	98.49	226.55	185.99	40.56	5.586		
9,184.54	9,184.54	5,985.34	5,971.02	20.50	20.56	25.77	204.03	98.49	226.55	185.61	40.94	5.534		
9,200.00	9,200.00	5,984.96	5,970.26	20.54	20.60	-146.05	204.03	98.49	226.76	185.80	40.96	5.536		
9,225.00	9,224.95	5,984.58	5,969.50	20.58	20.65	-146.18	204.03	98.49	227.98	187.00	40.98	5.563		
9,250.00	9,249.80	5,984.20	5,968.74	20.62	20.71	-146.41	204.03	98.49	230.28	189.34	40.94	5.625		
9,275.00	9,274.48	5,983.82	5,967.98	20.66	20.76	-146.73	204.03	98.49	233.89	192.85	40.84	5.722		
9,300.00	9,298.88	5,983.44	5,967.22	20.71	20.82	-147.13	204.03	98.49	238.20	197.53	40.87	5.856		
9,325.00	9,322.98	5,983.06	5,966.46	20.75	20.87	-147.80	204.03	98.49	243.84	203.39	40.45	6.029		
9,350.00	9,346.71	5,982.68	5,965.70	20.79	20.92	-148.11	204.03	98.49	250.60	210.44	40.15	6.241		

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

LEAM Drilling Systems LLC

Anticollision Report

Company: DEVON ENERGY
 Project: Lea County, NM (NAD-83)
 Reference Site: Thistle Unit
 Site Error: 0.00 usft
 Reference Well: 122H
 Well Error: 0.00 usft
 Reference Wellbore: OH
 Reference Design: Plan #1

Local Co-ordinate Reference: Well 122H
 TVD Reference: 3726.5' GL + 23.5' RKB @ 3750.00usft
 (Original Well Elev)
 MD Reference: 3726.5' GL + 23.5' RKB @ 3750.00usft
 (Original Well Elev)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Output errors are at 2.00 sigma
 Database: EDM 5000.1 Single User Db
 Offset TVD Reference: Offset Datum

Offset Design Thistle Unit - 77H - OH - Plan #1													Offset Site Error: 0.00 usft
Survey Program: 0-LEAM MWD-ADJ													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis			Distance				Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N-S (usft)	+E-W (usft)	Between Centres (usft)	Between Ellipses (usft)		Minimum Separation (usft)	Separation Factor
9,375.00	9,369.99	9,379.35	9,370.89	20.83	20.97	-148.64	204.03	98.49	258.49	218.70	39.80	6.495	
9,400.00	9,392.76	9,402.12	9,393.66	20.87	21.02	-149.17	204.03	98.49	267.53	228.15	39.38	6.794	
9,425.00	9,414.96	9,424.32	9,415.86	20.91	21.07	-149.68	204.03	98.49	277.70	238.80	38.90	7.138	
9,450.00	9,438.53	9,445.89	9,437.43	20.95	21.12	-150.16	204.03	98.49	289.00	250.63	38.37	7.532	
9,475.00	9,457.41	9,466.77	9,458.31	21.00	21.17	-150.58	204.03	98.49	301.42	263.63	37.79	7.976	
9,500.00	9,477.55	9,486.90	9,478.45	21.04	21.21	-150.93	204.03	98.49	314.93	277.76	37.17	8.472	
9,525.00	9,496.87	9,506.23	9,497.77	21.09	21.25	-151.18	204.03	98.49	329.50	292.98	36.52	9.022	
9,550.00	9,515.35	9,524.70	9,516.25	21.15	21.29	-151.33	204.03	98.49	345.11	309.26	35.85	9.625	
9,575.00	9,532.91	9,542.27	9,533.81	21.21	21.33	-151.35	204.03	98.49	361.72	326.53	35.18	10.281	
9,600.00	9,549.52	9,558.88	9,550.42	21.28	21.37	-151.23	204.03	98.49	379.27	344.75	34.53	10.985	
9,625.00	9,565.13	9,574.49	9,566.03	21.35	21.41	-150.93	204.03	98.49	397.73	363.82	33.91	11.730	
9,650.00	9,579.70	9,589.06	9,580.60	21.43	21.44	-150.42	204.03	98.49	417.04	383.89	33.35	12.504	
9,675.00	9,593.18	9,602.54	9,594.08	21.52	21.47	-149.88	204.03	98.49	437.14	404.25	32.89	13.291	
9,700.00	9,605.55	9,614.91	9,606.45	21.61	21.49	-148.83	204.03	98.49	457.98	425.41	32.57	14.063	
9,725.00	9,616.76	9,626.12	9,617.66	21.72	21.52	-147.21	204.03	98.49	479.49	447.07	32.42	14.788	
9,750.00	9,626.78	9,636.14	9,627.88	21.83	21.54	-145.32	204.03	98.49	501.61	469.08	32.53	15.421	
9,775.00	9,635.60	9,644.95	9,636.50	21.95	21.56	-142.81	204.03	98.49	524.28	491.33	32.95	15.909	
9,800.00	9,643.17	9,652.53	9,644.07	22.07	21.58	-139.48	204.03	98.49	547.43	513.83	33.79	16.199	
9,825.00	9,649.49	9,658.85	9,650.39	22.21	21.59	-135.01	204.03	98.49	570.98	535.83	35.15	16.244	
9,850.00	9,654.54	9,663.90	9,655.44	22.35	21.60	-128.97	204.03	98.49	594.88	557.78	37.10	16.033	
9,875.00	9,658.30	9,667.65	9,659.20	22.51	21.61	-120.77	204.03	98.49	619.05	579.43	39.62	15.625	
9,900.00	9,660.76	9,670.11	9,661.66	22.67	21.62	-109.81	204.03	98.49	643.42	601.09	42.33	15.199	
9,925.00	9,661.91	9,671.27	9,662.81	22.83	21.62	-95.91	204.03	98.49	667.92	623.66	44.27	15.088	
9,934.54	9,662.01	9,671.36	9,662.91	22.90	21.62	-90.00	204.03	98.49	677.29	632.78	44.51	15.215	
10,000.00	9,662.01	9,671.36	9,662.91	23.36	21.62	-90.00	204.03	98.49	741.79	696.82	44.98	16.493	
10,100.00	9,662.01	9,671.36	9,662.91	24.14	21.62	-90.00	204.03	98.49	840.90	795.15	45.75	18.378	
10,200.00	9,662.00	9,671.36	9,662.90	25.03	21.62	-90.00	204.03	98.49	940.46	893.82	46.64	20.165	
10,300.00	9,662.00	11,446.80	10,603.00	26.01	27.94	-179.80	-836.22	106.12	940.10	912.83	27.26	34.484	
10,400.00	9,662.00	11,546.76	10,603.00	27.08	28.99	-179.97	-936.18	106.85	940.09	912.13	27.96	33.622	
10,433.18	9,662.00	11,579.94	10,603.00	27.45	29.36	-179.99	-969.36	107.09	940.09	911.89	28.21	33.330	
10,453.09	9,662.00	11,599.85	10,603.00	27.67	29.58	-179.99	-989.27	107.24	940.09	911.74	28.35	33.158	
10,500.00	9,662.00	11,646.76	10,603.00	28.21	30.13	-179.99	-1,036.18	107.58	940.09	911.37	28.72	32.736	
10,600.00	9,662.00	11,746.76	10,603.00	29.39	31.32	-179.99	-1,136.17	108.31	940.09	910.56	29.53	31.837	
10,700.00	9,662.00	11,846.76	10,603.00	30.83	32.58	-179.99	-1,236.17	109.05	940.09	909.70	30.39	30.935	
10,800.00	9,662.00	11,946.76	10,603.00	31.93	33.89	-179.99	-1,336.17	109.78	940.09	908.80	31.30	30.039	
10,900.00	9,662.00	12,046.76	10,603.00	33.28	35.24	-179.99	-1,436.17	110.51	940.09	907.85	32.24	29.156	

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

LEAM Drilling Systems LLC

Anticollision Report

Company: DEVON ENERGY
Project: Lea County, NM (NAD-83)

Reference Site: Thistle Unit

Site Error: 0.00 usft

Reference Well: 122H

Well Error: 0.00 usft

Reference Wellbore: OH

Reference Design: Plan #1

Local Co-ordinate Reference: Well 122H

TVD Reference: 3726.5' GL + 23.5' RKB @ 3750.00usft
(Original Well Elev)

MD Reference: 3726.5' GL + 23.5' RKB @ 3750.00usft
(Original Well Elev)

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

Database: EDM 5000.1 Single User Db

Offset TVD Reference: Offset Datum

Offset Design Thistle Unit (Offsets) - 18H - OH - OH														Offset Site Error: 0.00 usft
Survey Program: 100-ISCWSA-GYRO-3, 8360-MWD-ISCWSA														Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore +N-S (usft)	Centre +E-W (usft)						
0.00	0.00	0.00	0.00	0.00	0.00	-165.01	-5,183.16	-1,388.04	5,365.97					
100.00	100.00	86.57	86.57	0.09	0.05	-165.01	-5,183.09	-1,388.07	5,365.75	5,365.62	0.13	N/A		
173.60	173.60	129.53	129.53	0.25	0.12	-165.01	-5,182.95	-1,388.18	5,365.83	5,365.26	0.37	N/A		
200.00	200.00	150.00	150.00	0.31	0.16	-165.01	-5,182.98	-1,388.22	5,365.66	5,365.20	0.46	N/A		
300.00	300.00	260.17	260.17	0.54	0.35	-165.00	-5,182.79	-1,388.49	5,365.56	5,364.68	0.88	6,089.868		
311.14	311.14	268.14	268.14	0.56	0.36	-165.00	-5,182.78	-1,388.51	5,365.56	5,364.64	0.92	5,832.086		
400.00	400.00	352.23	352.22	0.76	0.51	-165.00	-5,182.81	-1,388.87	5,365.68	5,364.41	1.27	4,237.083		
500.00	500.00	435.86	435.85	0.99	0.65	-164.99	-5,182.75	-1,389.28	5,365.76	5,364.12	1.64	3,277.658		
600.00	600.00	531.79	531.78	1.21	0.82	-164.99	-5,183.06	-1,389.79	5,366.21	5,364.18	2.03	2,844.167		
700.00	700.00	632.37	632.36	1.43	1.00	-164.99	-5,183.37	-1,390.28	5,366.63	5,364.20	2.43	2,208.465		
800.00	800.00	738.69	738.69	1.66	1.18	-164.98	-5,183.69	-1,390.78	5,367.05	5,364.21	2.84	1,899.320		
900.00	900.00	854.31	854.30	1.88	1.39	-164.98	-5,183.73	-1,391.31	5,367.19	5,363.93	3.27	1,642.633		
1,000.00	1,000.00	966.66	966.65	2.11	1.58	-164.97	-5,183.49	-1,391.81	5,367.10	5,363.41	3.69	1,455.241		
1,061.03	1,061.03	1,018.04	1,018.03	2.25	1.67	-164.97	-5,183.34	-1,392.14	5,367.03	5,363.12	3.91	1,370.914		
1,100.00	1,100.00	1,049.40	1,049.39	2.33	1.73	-164.96	-5,183.30	-1,392.39	5,367.07	5,363.01	4.06	1,322.828		
1,200.00	1,200.00	1,138.30	1,138.28	2.56	1.88	-164.95	-5,183.36	-1,393.32	5,367.41	5,362.97	4.44	1,209.584		
1,300.00	1,300.00	1,228.02	1,228.00	2.78	2.04	-164.94	-5,183.54	-1,394.31	5,367.87	5,363.05	4.82	1,113.899		
1,400.00	1,400.00	1,323.44	1,323.41	3.01	2.21	-164.93	-5,183.85	-1,395.39	5,368.48	5,363.27	5.21	1,030.294		
1,500.00	1,500.00	1,438.11	1,438.07	3.23	2.41	-164.92	-5,184.01	-1,396.89	5,368.95	5,363.31	5.64	952.653		
1,600.00	1,600.00	1,540.84	1,540.79	3.46	2.59	-164.90	-5,183.91	-1,398.55	5,369.27	5,363.23	6.04	888.945		
1,700.00	1,700.00	1,647.08	1,647.01	3.68	2.78	-164.88	-5,183.82	-1,400.30	5,369.63	5,363.16	6.45	832.444		
1,800.00	1,800.00	1,743.17	1,743.08	3.91	2.95	-164.87	-5,183.54	-1,401.90	5,369.78	5,362.94	6.84	784.709		
1,900.00	1,900.00	1,849.80	1,849.70	4.13	3.13	-164.85	-5,183.25	-1,403.60	5,369.93	5,362.68	7.25	740.267		
2,000.00	2,000.00	1,958.48	1,958.37	4.36	3.32	-164.83	-5,182.89	-1,405.27	5,370.02	5,362.35	7.67	700.258		
2,100.00	2,100.00	2,073.81	2,073.69	4.58	3.53	-164.81	-5,182.26	-1,406.66	5,369.80	5,361.71	8.09	663.376		
2,200.00	2,200.00	2,180.04	2,179.91	4.81	3.71	-164.80	-5,181.51	-1,407.68	5,369.37	5,360.87	8.50	631.337		
2,300.00	2,300.00	2,279.24	2,279.11	5.03	3.89	-164.79	-5,180.81	-1,408.59	5,368.93	5,360.03	8.90	603.073		
2,400.00	2,400.00	2,380.16	2,380.02	5.26	4.06	-164.78	-5,180.05	-1,409.61	5,368.47	5,359.17	9.30	577.035		
2,500.00	2,500.00	2,478.25	2,478.10	5.48	4.23	-164.76	-5,179.39	-1,410.73	5,368.11	5,358.42	9.70	553.635		
2,600.00	2,600.00	2,578.71	2,578.55	5.71	4.41	-164.75	-5,178.65	-1,411.85	5,367.70	5,357.60	10.10	531.464		
2,700.00	2,700.00	2,683.96	2,683.79	5.93	4.60	-164.74	-5,177.79	-1,413.06	5,367.22	5,356.71	10.51	510.752		
2,800.00	2,800.00	2,794.18	2,794.00	6.15	4.79	-164.72	-5,176.79	-1,414.29	5,366.63	5,355.70	10.93	491.187		
2,900.00	2,900.00	2,895.68	2,895.49	6.38	4.97	-164.71	-5,175.77	-1,415.27	5,365.92	5,354.59	11.33	473.688		
3,000.00	3,000.00	3,008.08	3,007.88	6.60	5.16	-164.69	-5,174.46	-1,416.29	5,365.02	5,353.27	11.75	456.628		
3,100.00	3,100.00	3,133.11	3,132.89	6.83	5.38	-164.68	-5,172.89	-1,417.28	5,363.88	5,351.69	12.19	439.927		
3,200.00	3,200.00	3,267.54	3,267.29	7.05	5.62	-164.66	-5,170.14	-1,418.06	5,362.22	5,349.57	12.65	423.801		
3,300.00	3,300.00	3,407.71	3,407.42	7.28	5.86	-164.65	-5,166.62	-1,418.30	5,359.87	5,346.74	13.12	408.440		
3,400.00	3,400.00	3,600.08	3,599.68	7.50	6.20	-164.65	-5,159.75	-1,416.42	5,356.13	5,342.45	13.68	391.424		
3,500.00	3,500.00	3,711.12	3,710.57	7.73	6.40	-164.66	-5,154.95	-1,414.45	5,351.49	5,337.39	14.10	379.482		
3,600.00	3,600.00	3,784.92	3,784.29	7.95	6.53	-164.66	-5,151.79	-1,413.04	5,346.89	5,332.44	14.46	369.888		
3,700.00	3,700.00	3,849.30	3,848.62	8.18	6.64	-164.67	-5,149.50	-1,411.92	5,342.99	5,328.20	14.79	361.202		
3,800.00	3,800.00	3,939.20	3,938.46	8.40	6.80	-164.67	-5,146.63	-1,410.63	5,339.53	5,324.35	15.17	351.891		
3,900.00	3,900.00	4,030.81	4,030.02	8.63	6.97	-164.68	-5,143.73	-1,409.42	5,336.13	5,320.57	15.56	342.971		
4,000.00	4,000.00	4,121.20	4,120.36	8.85	7.13	-164.68	-5,141.12	-1,408.20	5,333.00	5,317.06	15.94	334.543		
4,100.00	4,100.00	4,218.91	4,218.03	9.08	7.30	-164.69	-5,138.47	-1,406.72	5,329.98	5,313.64	16.34	326.263		
4,200.00	4,200.00	4,312.25	4,311.30	9.30	7.46	-164.71	-5,136.29	-1,404.18	5,327.01	5,310.28	16.72	318.528		
4,300.00	4,300.00	4,387.09	4,386.08	9.53	7.59	-164.74	-5,135.17	-1,400.78	5,324.36	5,307.28	17.08	311.754		
4,400.00	4,400.00	4,468.80	4,467.82	9.75	7.73	-164.79	-5,134.57	-1,395.96	5,322.10	5,304.85	17.45	305.069		
4,500.00	4,500.00	4,549.80	4,548.46	9.98	7.87	-164.84	-5,134.41	-1,390.88	5,320.25	5,302.44	17.81	298.702		
4,600.00	4,600.00	4,629.10	4,627.80	10.20	8.01	-164.90	-5,134.48	-1,385.76	5,318.67	5,300.49	18.17	292.650		
4,700.00	4,700.00	4,705.95	4,704.26	10.43	8.14	-164.95	-5,135.10	-1,380.38	5,317.61	5,299.08	18.53	286.928		

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

LEAM Drilling Systems LLC

Anticollision Report

Company: DEVON ENERGY
Project: Lea County, NM (NAD-83)

Reference Site: Thistle Unit

Site Error: 0.00 usft

Reference Well: 122H

Well Error: 0.00 usft

Reference Wellbore: OH

Reference Design: Plan #1

Local Co-ordinate Reference:

TVD Reference: 3726.5' GL + 23.5' RKB @ 3750.00usft
(Original Well Elev)

MD Reference: 3726.5' GL + 23.5' RKB @ 3750.00usft
(Original Well Elev)

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

Database: EDM 5000.1 Single User Db

Offset TVD Reference: Offset Datum

Offset Design Thistle Unit (Offsets) - 18H - OH - OH														Offset Site Error: 0.00 usft
Survey Program: 100-ISCWSA-GYRO-3, 6350-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		
4,800.00	4,800.00	4,792.77	4,790.81	10.85	8.29	-165.03	-5,136.26	-1,373.82	5,316.87	5,297.96	18.91	281.178		
4,900.00	4,900.00	4,881.98	4,879.09	10.87	8.44	-165.11	-5,137.71	-1,366.18	5,316.30	5,297.01	19.29	275.599		
4,979.30	4,979.30	4,938.79	4,936.30	11.05	8.54	-165.16	-5,138.81	-1,361.51	5,316.12	5,296.55	19.57	271.679		
5,000.00	5,000.00	4,955.84	4,953.10	11.10	8.57	-165.17	-5,139.16	-1,360.23	5,316.13	5,296.49	19.84	270.628		
5,100.00	5,100.00	5,048.10	5,045.32	11.32	8.73	-165.25	-5,140.89	-1,353.84	5,316.18	5,296.15	20.03	265.405		
5,200.00	5,200.00	5,136.43	5,135.46	11.55	8.89	-165.31	-5,142.61	-1,348.25	5,316.45	5,296.04	20.41	260.436		
5,300.00	5,300.00	5,234.57	5,231.47	11.77	9.05	-165.36	-5,144.29	-1,343.81	5,316.93	5,296.12	20.81	255.534		
5,400.00	5,400.00	5,324.65	5,321.44	12.00	9.21	-165.41	-5,145.98	-1,339.46	5,317.45	5,296.26	21.19	250.943		
5,500.00	5,500.00	5,426.27	5,422.94	12.22	9.39	-165.46	-5,147.77	-1,334.96	5,318.16	5,296.56	21.59	246.288		
5,600.00	5,600.00	5,517.33	5,513.91	12.45	9.55	-165.51	-5,149.41	-1,331.17	5,318.86	5,296.88	21.98	242.009		
5,700.00	5,700.00	5,615.80	5,612.10	12.67	9.72	-165.55	-5,151.27	-1,327.40	5,319.73	5,297.36	22.38	237.749		
5,800.00	5,800.00	5,717.43	5,713.83	12.90	9.90	-165.60	-5,153.11	-1,323.51	5,320.54	5,297.76	22.78	233.570		
5,900.00	5,900.00	5,814.15	5,810.47	13.12	10.07	-165.64	-5,154.87	-1,320.00	5,321.40	5,298.22	23.17	229.628		
6,000.00	6,000.00	5,919.78	5,916.00	13.35	10.25	-165.68	-5,156.66	-1,316.42	5,322.19	5,298.61	23.58	225.866		
6,100.00	6,100.00	6,009.38	6,005.58	13.57	10.41	-165.71	-5,158.07	-1,313.82	5,323.01	5,299.04	23.97	222.101		
6,200.00	6,200.00	6,113.13	6,109.28	13.80	10.59	-165.74	-5,159.75	-1,311.13	5,323.94	5,299.57	24.37	218.430		
6,300.00	6,300.00	6,214.94	6,211.05	14.02	10.77	-165.77	-5,161.27	-1,308.70	5,324.81	5,300.03	24.78	214.907		
6,400.00	6,400.00	6,349.65	6,345.71	14.25	11.01	-165.81	-5,162.99	-1,305.61	5,325.52	5,300.28	25.24	211.010		
6,494.65	6,494.65	6,456.50	6,452.53	14.46	11.20	-165.84	-5,163.58	-1,303.19	5,325.49	5,299.85	25.64	207.719		
6,500.00	6,500.00	6,456.50	6,452.53	14.47	11.20	-165.84	-5,163.58	-1,303.19	5,325.49	5,299.84	25.65	207.622		
6,600.00	6,600.00	6,535.53	6,531.54	14.70	11.33	-165.85	-5,164.13	-1,301.47	5,325.66	5,299.85	26.01	204.730		
6,700.00	6,700.00	6,610.75	6,606.73	14.92	11.47	-165.87	-5,165.09	-1,299.90	5,326.39	5,300.02	26.37	201.988		
6,800.00	6,800.00	6,711.81	6,707.78	15.15	11.64	-165.90	-5,166.73	-1,297.70	5,327.43	5,300.66	26.77	198.992		
6,900.00	6,900.00	6,820.26	6,816.17	15.37	11.83	-165.93	-5,168.20	-1,295.43	5,328.24	5,301.05	27.19	195.983		
7,000.00	7,000.00	6,915.38	6,911.27	15.59	12.00	-165.95	-5,169.42	-1,293.70	5,329.04	5,301.46	27.58	193.229		
7,100.00	7,100.00	7,005.55	7,001.43	15.82	12.16	-165.97	-5,170.84	-1,292.34	5,329.98	5,302.02	27.96	190.617		
7,200.00	7,200.00	7,095.70	7,091.56	16.04	12.32	-165.98	-5,171.99	-1,291.14	5,331.12	5,302.78	28.34	188.082		
7,300.00	7,300.00	7,194.65	7,190.49	16.27	12.49	-166.00	-5,173.59	-1,289.92	5,332.39	5,303.64	28.74	185.519		
7,400.00	7,400.00	7,284.31	7,280.13	16.49	12.65	-166.01	-5,175.04	-1,288.94	5,333.69	5,304.57	29.13	183.131		
7,500.00	7,500.00	7,374.77	7,370.57	16.72	12.81	-166.03	-5,176.73	-1,287.96	5,335.25	5,305.74	29.51	180.803		
7,600.00	7,600.00	7,474.41	7,470.18	16.94	12.99	-166.04	-5,178.67	-1,286.95	5,336.89	5,306.98	29.91	178.442		
7,700.00	7,700.00	7,577.81	7,573.36	17.17	13.17	-166.06	-5,180.68	-1,285.70	5,338.49	5,308.17	30.31	176.104		
7,800.00	7,800.00	7,681.09	7,676.81	17.39	13.35	-166.08	-5,182.69	-1,284.20	5,340.02	5,309.30	30.72	173.823		
7,900.00	7,900.00	7,770.17	7,765.86	17.62	13.51	-166.10	-5,184.44	-1,282.94	5,341.80	5,310.50	31.10	171.742		
8,000.00	8,000.00	7,869.51	7,865.17	17.84	13.68	-166.12	-5,186.61	-1,281.46	5,343.36	5,311.85	31.50	169.619		
8,100.00	8,100.00	7,977.72	7,973.34	18.07	13.87	-166.14	-5,188.82	-1,279.91	5,345.00	5,313.08	31.92	167.464		
8,200.00	8,200.00	8,079.53	8,075.12	18.29	14.05	-166.16	-5,190.79	-1,278.46	5,346.54	5,314.22	32.32	165.419		
8,300.00	8,300.00	8,194.98	8,190.55	18.52	14.26	-166.18	-5,192.80	-1,276.97	5,347.92	5,315.17	32.75	163.300		
8,400.00	8,400.00	8,292.58	8,288.13	18.74	14.43	-166.20	-5,194.31	-1,276.01	5,349.18	5,316.04	33.15	161.387		
8,500.00	8,500.00	8,329.70	8,325.24	18.97	14.50	-166.20	-5,194.87	-1,275.76	5,350.86	5,317.42	33.43	160.038		
8,600.00	8,600.00	8,360.00	8,355.52	19.19	14.52	-166.21	-5,195.88	-1,275.45	5,353.92	5,320.09	33.83	158.252		
8,700.00	8,700.00	8,360.00	8,355.52	19.42	14.52	-166.21	-5,195.88	-1,275.45	5,356.82	5,324.56	34.06	157.345		
8,800.00	8,800.00	8,392.00	8,387.44	19.64	14.53	-166.22	-5,197.98	-1,274.56	5,364.71	5,330.42	34.29	156.473		
8,900.00	8,900.00	8,406.47	8,401.84	19.87	14.53	-166.23	-5,199.28	-1,273.92	5,372.39	5,337.88	34.51	155.662		
9,000.00	9,000.00	8,424.00	8,419.24	20.09	14.53	-166.25	-5,201.20	-1,272.98	5,381.65	5,346.91	34.74	154.905		
9,100.00	9,100.00	8,443.21	8,438.23	20.31	14.53	-166.27	-5,203.69	-1,271.59	5,392.42	5,357.44	34.97	154.190		
9,184.54	9,184.54	8,456.00	8,450.83	20.50	14.53	-166.29	-5,205.53	-1,270.38	5,402.64	5,367.47	35.17	153.630		
9,200.00	9,200.00	8,456.00	8,450.83	20.54	14.53	21.84	-5,205.53	-1,270.38	5,404.41	5,369.39	35.02	154.338		
9,225.00	9,224.95	8,456.00	8,450.83	20.58	14.53	21.75	-5,205.53	-1,270.38	5,406.38	5,371.15	35.23	153.475		
9,250.00	9,249.80	8,456.00	8,450.83	20.62	14.53	21.71	-5,205.53	-1,270.38	5,407.25	5,371.88	35.38	152.848		

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 122H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3726.5' GL + 23.5' RKB @ 3750.00usft (Original Well Elev)
Reference Site:	Thistle Unit	MD Reference:	3726.5' GL + 23.5' RKB @ 3750.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	122H	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 Thistle Unit (Offsets) - 18H - OH - OH														Offset Site Error:	0.00 usft
Survey Program: 100-ISCWSA-GYRO-3, 8360-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)							
9,275.00	9,274.46	8,456.00	8,450.83	20.66	14.53	21.72	-5,205.53	-1,270.38	5,407.03	5,371.57	35.46	152.498			
9,300.00	9,298.88	8,471.15	8,465.89	20.71	14.53	21.77	-5,208.00	-1,268.77	5,405.50	5,370.03	35.47	152.406			
9,325.00	9,322.98	8,488.00	8,482.13	20.75	14.53	21.87	-5,211.19	-1,266.89	5,403.18	5,367.77	35.41	152.578			
9,350.00	9,346.71	8,488.00	8,482.13	20.79	14.53	22.04	-5,211.19	-1,266.89	5,399.52	5,364.23	35.29	153.006			
9,375.00	9,369.99	8,488.00	8,482.13	20.83	14.53	22.26	-5,211.19	-1,266.89	5,394.77	5,359.87	35.10	153.685			
9,400.00	9,392.76	8,488.00	8,482.13	20.87	14.53	22.53	-5,211.19	-1,266.89	5,388.95	5,354.10	34.86	154.606			
9,425.00	9,414.96	8,488.00	8,482.13	20.91	14.53	22.86	-5,211.19	-1,266.89	5,382.07	5,347.52	34.55	155.761			
9,450.00	9,436.53	8,488.00	8,482.13	20.95	14.53	23.26	-5,211.19	-1,266.89	5,374.15	5,339.95	34.20	157.134			
9,475.00	9,457.41	8,488.00	8,482.13	21.00	14.53	23.71	-5,211.19	-1,266.89	5,365.20	5,331.39	33.81	158.708			
9,500.00	9,477.55	8,488.00	8,482.13	21.04	14.53	24.24	-5,211.19	-1,266.89	5,355.23	5,321.86	33.37	160.458			
9,525.00	9,496.87	8,488.00	8,482.13	21.09	14.53	24.85	-5,211.19	-1,266.89	5,344.28	5,311.37	32.92	162.348			
9,550.00	9,515.35	8,488.00	8,482.13	21.15	14.53	25.54	-5,211.19	-1,266.89	5,332.37	5,299.92	32.45	164.330			
9,575.00	9,532.91	8,488.00	8,482.13	21.21	14.53	26.33	-5,211.19	-1,266.89	5,319.52	5,287.54	31.98	166.342			
9,600.00	9,549.52	8,488.00	8,482.13	21.28	14.53	27.22	-5,211.19	-1,266.89	5,305.78	5,274.23	31.53	168.302			
9,625.00	9,565.13	8,488.00	8,482.13	21.35	14.53	28.23	-5,211.19	-1,266.89	5,291.12	5,260.02	31.11	170.105			
9,650.00	9,579.70	8,502.99	8,496.27	21.43	14.54	29.42	-5,214.37	-1,265.16	5,275.42	5,244.86	30.76	171.507			
9,675.00	9,593.18	8,504.30	8,497.91	21.52	14.54	30.73	-5,214.77	-1,264.95	5,259.08	5,228.60	30.48	172.560			
9,700.00	9,605.55	8,520.00	8,512.98	21.61	14.54	32.27	-5,218.71	-1,262.94	5,242.16	5,211.83	30.32	172.875			
9,725.00	9,616.76	8,520.00	8,512.98	21.72	14.54	33.95	-5,218.71	-1,262.94	5,224.26	5,193.98	30.27	172.569			
9,750.00	9,626.78	8,520.00	8,512.98	21.83	14.54	35.86	-5,218.71	-1,262.94	5,205.67	5,175.30	30.37	171.382			
9,775.00	9,635.60	8,520.00	8,512.98	21.95	14.54	38.03	-5,218.71	-1,262.94	5,186.44	5,155.80	30.85	169.233			
9,800.00	9,643.17	8,520.00	8,512.98	22.07	14.54	40.51	-5,218.71	-1,262.94	5,166.82	5,135.52	31.10	168.115			
9,825.00	9,649.49	8,520.00	8,512.98	22.21	14.54	43.32	-5,218.71	-1,262.94	5,146.25	5,114.50	31.75	162.108			
9,850.00	9,654.54	8,520.00	8,512.98	22.35	14.54	46.54	-5,218.71	-1,262.94	5,125.38	5,092.81	32.57	157.382			
9,875.00	9,658.30	8,520.00	8,512.98	22.51	14.54	50.20	-5,218.71	-1,262.94	5,104.06	5,070.52	33.54	152.186			
9,900.00	9,660.76	8,520.00	8,512.98	22.67	14.54	54.36	-5,218.71	-1,262.94	5,082.35	5,047.73	34.82	146.823			
9,925.00	9,661.91	8,520.00	8,512.98	22.83	14.54	59.05	-5,218.71	-1,262.94	5,060.29	5,024.56	35.73	141.830			
9,934.54	9,662.01	8,520.00	8,512.98	22.90	14.54	60.99	-5,218.71	-1,262.94	5,051.80	5,015.86	36.14	139.766			
10,000.00	9,662.01	8,520.00	8,512.98	23.36	14.54	80.02	-5,218.71	-1,262.94	4,993.26	4,956.88	36.37	137.279			
10,100.00	9,662.01	8,520.00	8,512.98	24.14	14.54	58.44	-5,218.71	-1,262.94	4,903.32	4,866.58	36.74	133.472			
10,200.00	9,662.00	8,520.00	8,512.98	25.03	14.54	56.73	-5,218.71	-1,262.94	4,812.80	4,775.68	37.12	129.660			
10,300.00	9,662.00	8,520.00	8,512.98	26.01	14.54	54.87	-5,218.71	-1,262.94	4,721.72	4,684.23	37.49	125.950			
10,400.00	9,662.00	8,520.00	8,512.98	27.08	14.54	52.85	-5,218.71	-1,262.94	4,630.13	4,592.31	37.82	122.435			
10,453.09	9,662.00	8,520.00	8,512.98	27.87	14.54	51.71	-5,218.71	-1,262.94	4,581.30	4,543.34	37.96	120.877			
10,500.00	9,662.00	8,534.18	8,526.45	28.21	14.54	52.01	-5,222.68	-1,260.98	4,537.94	4,499.44	38.50	117.855			
10,600.00	9,662.00	8,537.66	8,529.72	29.39	14.54	52.09	-5,223.71	-1,260.47	4,446.07	4,406.58	39.49	112.589			
10,700.00	9,662.00	8,552.00	8,543.16	30.83	14.55	52.39	-5,228.22	-1,258.27	4,354.85	4,314.03	40.82	107.215			
10,800.00	9,662.00	8,552.00	8,543.16	31.93	14.55	52.39	-5,228.22	-1,258.27	4,283.40	4,221.72	41.88	102.290			
10,900.00	9,662.00	8,552.00	8,543.16	33.28	14.55	52.39	-5,228.22	-1,258.27	4,172.55	4,129.77	42.78	97.524 CC, ES, SF			

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

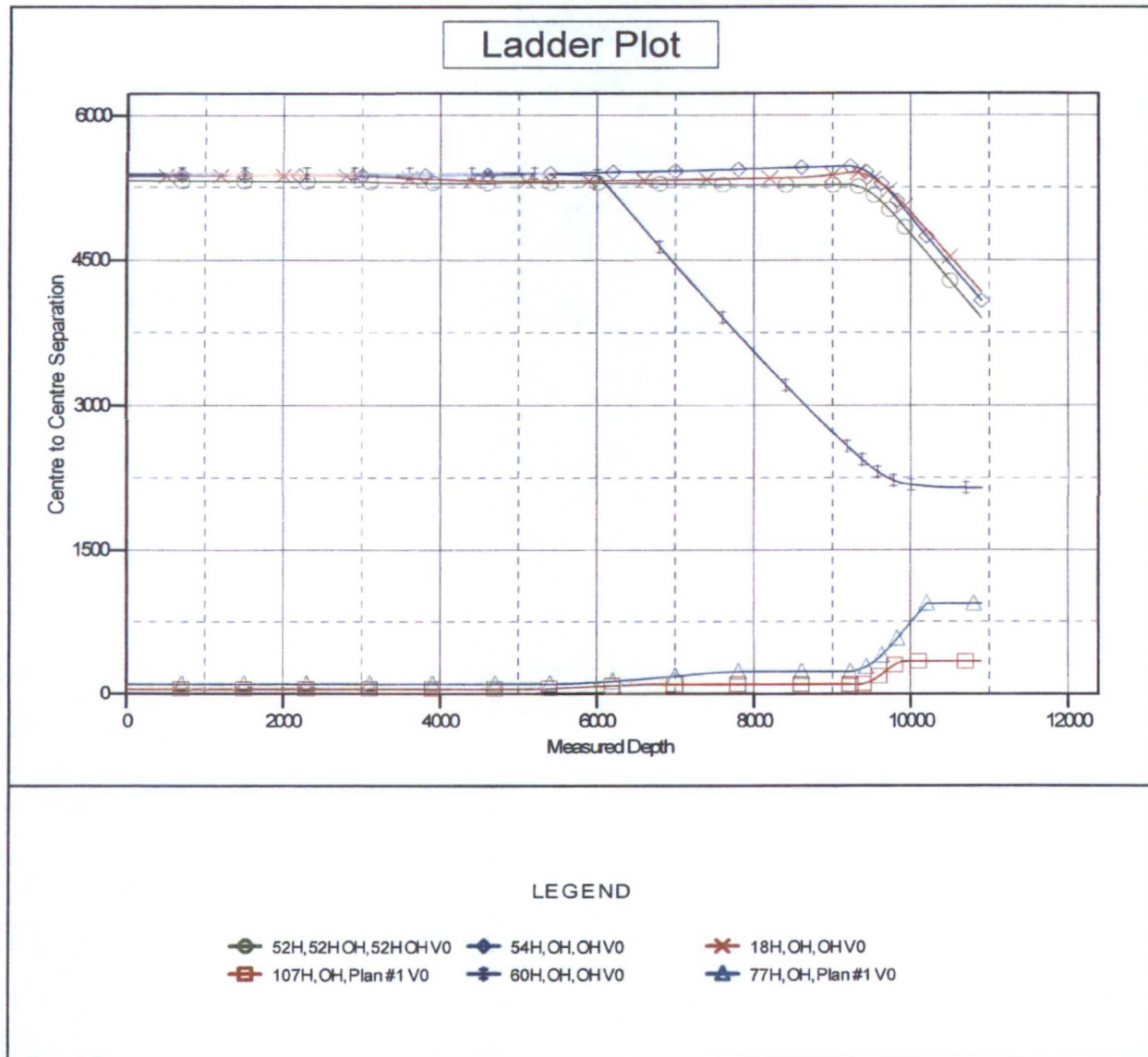
LEAM Drilling Systems LLC

Anticollision Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 122H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3726.5' GL + 23.5' RKB @ 3750.00usft (Original Well Elev)
Reference Site:	Thistle Unit	MD Reference:	3726.5' GL + 23.5' RKB @ 3750.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	122H	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 3726.5' GL + 23.5' RKB @ 3750.00us
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: 122H
Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Grid Convergence at Surface is: 0.40°



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

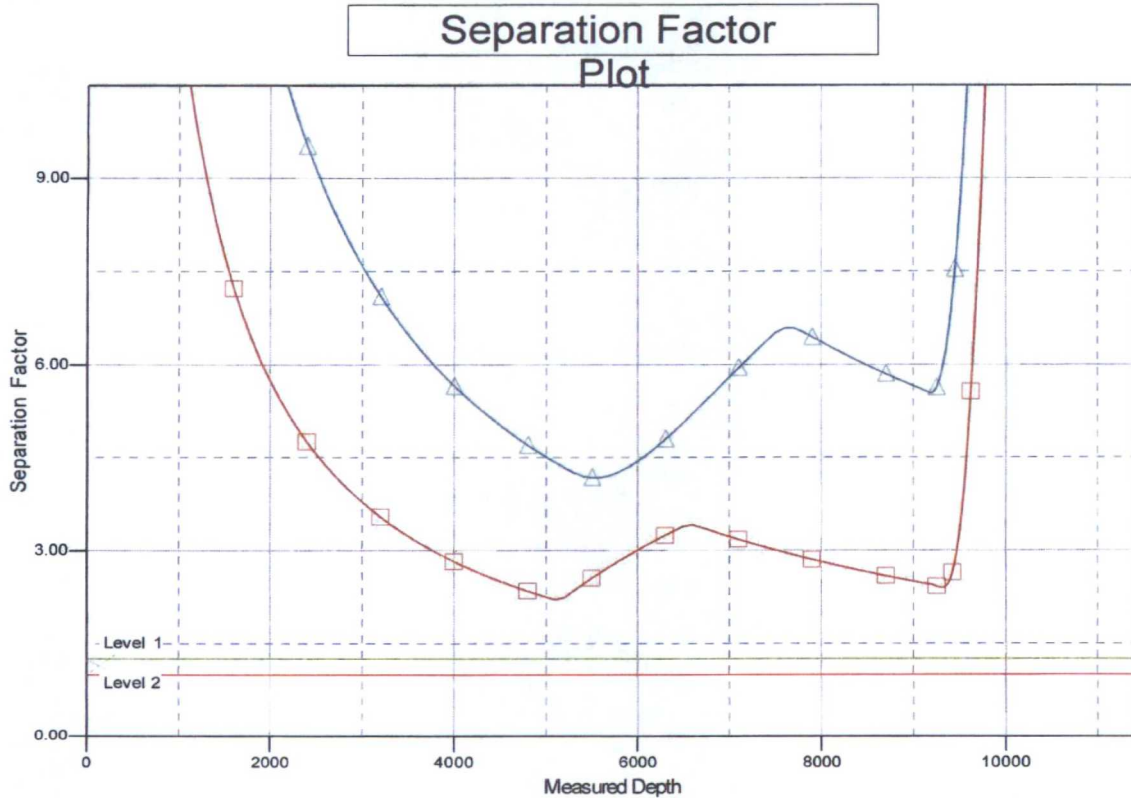
LEAM Drilling Systems LLC

Anticollision Report

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Well Error:	0.00 usft	Output errors are at	2.00 sigma
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Reference Depths are relative to 3726.5' GL + 23.5' RKB @ 3750.00us
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: 122H
Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Grid Convergence at Surface is: 0.40°



LEGEND

- 52H, 52H OH, 52H OH V0
- 54H, OH, OH V0
- 18H, OH, OH V0
- 107H, OH, Plan #1 V0
- 60H, OH, OH V0
- 77H, OH, Plan #1 V0

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