



Devon Energy
Thistle Unit 107H
Plan #1
Lea County, NM

HOBBS OCD

AUG 10 2016



RECEIVED



Azimuths to Grid North
True North: -0.41°
Magnetic North: 6.84°

Magnetic Field
Strength: 48237.4snT
Dip Angle: 60.21°
Date: 9/9/2015
Model: BGGM2015

DESIGN TARGET DETAILS					
Name	TVD	+N/-S	+E/-W	Northing	Easting
SHL (TU 107H)	0.00	0.00	0.00	472521.73	775258.32
PBHL (TU 107H)	10000.00	-7624.21	105.90	464897.52	775364.22

SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5100.00	0.00	0.00	5100.00	0.00	0.00	0.00	0.00	0.00	
5200.00	2.00	90.00	5199.98	0.00	1.75	2.00	90.00	0.01	
6500.00	2.00	90.00	6499.19	0.00	47.11	0.00	0.00	0.35	
6633.33	0.00	0.00	6632.49	0.00	49.44	1.50	180.00	0.36	
9523.37	0.00	0.00	9522.53	0.00	49.44	0.00	0.00	0.36	
10273.37	90.00	179.58	10000.00	-477.45	52.98	12.00	179.58	477.83	
17420.33	90.00	179.58	10000.00	-7624.21	105.90	0.00	0.00	7624.78	

PROJECT DETAILS:		Lea County, NM
Geodetic System:	US State Plane 1983	
Datum:	North American Datum 1983	
Ellipsoid:	GRS 1980	
Zone:	New Mexico Eastern Zone	
System Datum:	Mean Sea Level	

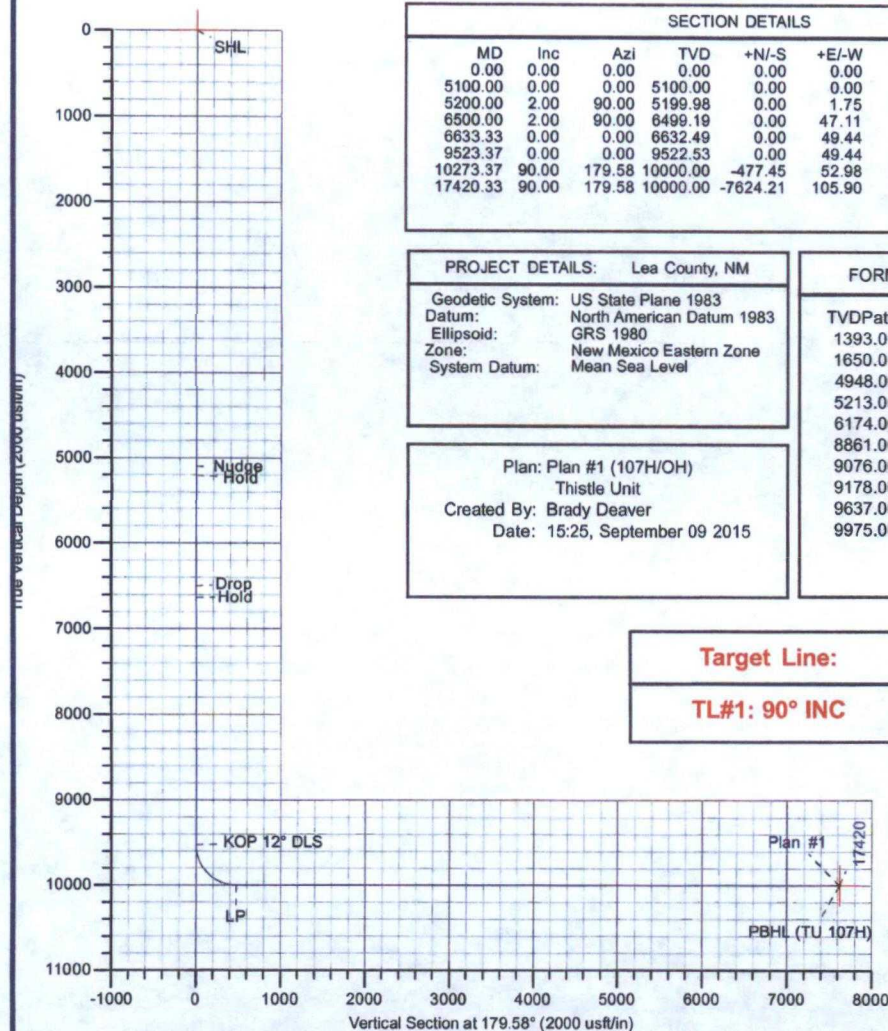
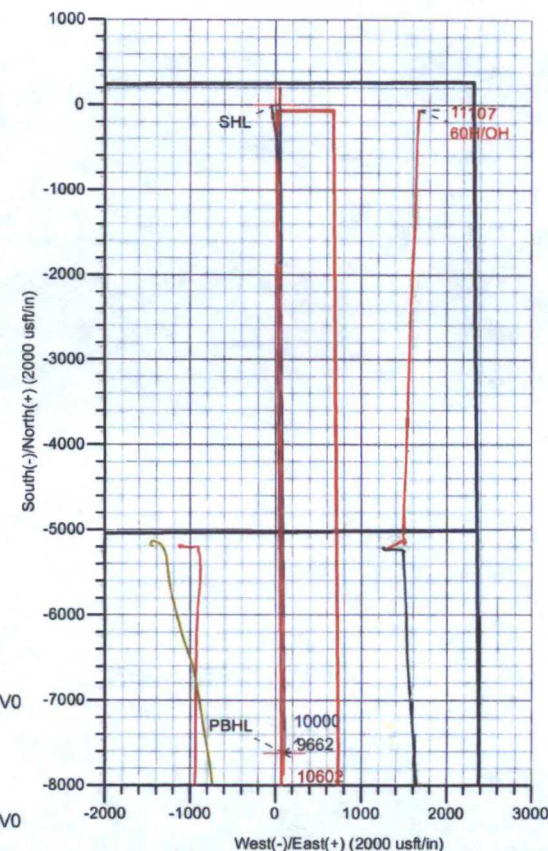
FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
1393.00	1393.00	Rustler
1650.00	1650.00	Top Salt
4948.00	4948.00	Base Salt
5213.00	5213.03	Delaware
6174.00	6174.61	Cherry Cyn
8861.00	8861.84	Lwr Brushy
9076.00	9076.84	Bone Spring
9178.00	9178.84	Mid Leonard
9637.00	9638.97	Lnd B
9975.00	10118.19	Lnd C

Plan: Plan #1 (107H/OH)
Thistle Unit
Created By: Brady Deaver
Date: 15:25, September 09 2015

Target Line:
TL#1: 90° INC

LEGEND

- 122H, OH, Plan #1 V0
- ✗ 66H, OH, OH V0
- ✗ 52H, 52H OH, 52H OH V0
- 77H, OH, Plan #1 V0
- ✗ 60H, OH, OH V0
- ✗ 54H, OH, OH V0
- 51H, 51H OH, 51H OH V0
- 2, 2 OH, 2 OH V0
- ◇ 18H, OH, OH V0
- Plan #1



HOBBS OCD

AUG 10 2016

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DEVON ENERGY

Lea County, NM (NAD-83)

Thistle Unit

107H

OH

Plan: Plan #1

Standard Planning Report

09 September, 2015

LEAM Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 107H
Company:	DEVON ENERGY	TVD Reference:	3726.7 @ 3750.20usft (Original Well Elev)
Project:	Lea County, NM (NAD-83)	MD Reference:	3726.7 @ 3750.20usft (Original Well Elev)
Site:	Thistle Unit	North Reference:	Grid
Well:	107H	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
From:	Map	Easting:	780,722.56 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 17' 3.494 N
		Longitude:	103° 33' 31.335 W
		Grid Convergence:	0.41 °

Well	107H		
Well Position	+N/-S	4,494.83 usft	Northing:
	+E/-W	-5,464.24 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	3,750.20 usft
		Latitude:	32° 17' 48.357 N
		Longitude:	103° 34' 34.615 W
		Ground Level:	3,726.70 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination (°)
	BGGM2015	9/9/2015	7.24
		Dip Angle (°)	60.21
		Field Strength (nT)	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)
	0.00	0.00	0.00
			Direction (°)
			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	
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	2.00	90.00	5,199.98	0.00	1.75	2.00	2.00	0.00	90.00	
6,500.00	2.00	90.00	6,499.19	0.00	47.11	0.00	0.00	0.00	0.00	
6,633.33	0.00	0.00	6,632.49	0.00	49.44	1.50	-1.50	0.00	180.00	
9,523.37	0.00	0.00	9,522.53	0.00	49.44	0.00	0.00	0.00	0.00	
10,273.37	90.00	179.58	10,000.00	-477.45	52.98	12.00	12.00	23.94	179.58	
17,420.33	90.00	179.58	10,000.00	-7,624.21	105.90	0.00	0.00	0.00	0.00	PBHL (TU 107H)

LEAM Drilling Systems LLC

Planning Report

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Company:	DEVON ENERGY	TVD Reference:	3726.7 @ 3750.20usft (Original Well Elev)
Project:	Lea County, NM (NAD-83)	MD Reference:	3726.7 @ 3750.20usft (Original Well Elev)
Site:	Thistle Unit	North Reference:	Grid
Well:	107H	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 107H)									
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
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00

LEAM Drilling Systems LLC

Planning Report

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Site:	Thistle Unit	North Reference:	Grid
Well:	107H	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)
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
Nudge									
5,200.00	2.00	90.00	5,199.98	0.00	1.75	0.01	2.00	2.00	0.00
Hold									
5,213.03	2.00	90.00	5,213.00	0.00	2.20	0.02	0.00	0.00	0.00
Delaware									
5,300.00	2.00	90.00	5,299.92	0.00	5.24	0.04	0.00	0.00	0.00
5,400.00	2.00	90.00	5,399.86	0.00	8.73	0.06	0.00	0.00	0.00
5,500.00	2.00	90.00	5,499.80	0.00	12.22	0.09	0.00	0.00	0.00
5,600.00	2.00	90.00	5,599.74	0.00	15.70	0.12	0.00	0.00	0.00
5,700.00	2.00	90.00	5,699.68	0.00	19.19	0.14	0.00	0.00	0.00
5,800.00	2.00	90.00	5,799.61	0.00	22.68	0.17	0.00	0.00	0.00
5,900.00	2.00	90.00	5,899.55	0.00	26.17	0.19	0.00	0.00	0.00
6,000.00	2.00	90.00	5,999.49	0.00	29.66	0.22	0.00	0.00	0.00
6,100.00	2.00	90.00	6,099.43	0.00	33.15	0.24	0.00	0.00	0.00
6,174.61	2.00	90.00	6,174.00	0.00	35.76	0.26	0.00	0.00	0.00
Cherry Cyn									
6,200.00	2.00	90.00	6,199.37	0.00	36.64	0.27	0.00	0.00	0.00
6,300.00	2.00	90.00	6,299.31	0.00	40.13	0.29	0.00	0.00	0.00
6,400.00	2.00	90.00	6,399.25	0.00	43.62	0.32	0.00	0.00	0.00
6,500.00	2.00	90.00	6,499.19	0.00	47.11	0.35	0.00	0.00	0.00
Drop									
6,600.00	0.50	90.00	6,599.16	0.00	49.30	0.36	1.50	-1.50	0.00
6,633.33	0.00	0.00	6,632.49	0.00	49.44	0.36	1.50	-1.50	0.00
Hold									
6,700.00	0.00	0.00	6,699.16	0.00	49.44	0.36	0.00	0.00	0.00
6,800.00	0.00	0.00	6,799.16	0.00	49.44	0.36	0.00	0.00	0.00
6,900.00	0.00	0.00	6,899.16	0.00	49.44	0.36	0.00	0.00	0.00
7,000.00	0.00	0.00	6,999.16	0.00	49.44	0.36	0.00	0.00	0.00
7,100.00	0.00	0.00	7,099.16	0.00	49.44	0.36	0.00	0.00	0.00
7,200.00	0.00	0.00	7,199.16	0.00	49.44	0.36	0.00	0.00	0.00
7,300.00	0.00	0.00	7,299.16	0.00	49.44	0.36	0.00	0.00	0.00
7,400.00	0.00	0.00	7,399.16	0.00	49.44	0.36	0.00	0.00	0.00
7,500.00	0.00	0.00	7,499.16	0.00	49.44	0.36	0.00	0.00	0.00
7,600.00	0.00	0.00	7,599.16	0.00	49.44	0.36	0.00	0.00	0.00
7,700.00	0.00	0.00	7,699.16	0.00	49.44	0.36	0.00	0.00	0.00
7,800.00	0.00	0.00	7,799.16	0.00	49.44	0.36	0.00	0.00	0.00
7,900.00	0.00	0.00	7,899.16	0.00	49.44	0.36	0.00	0.00	0.00
8,000.00	0.00	0.00	7,999.16	0.00	49.44	0.36	0.00	0.00	0.00
8,100.00	0.00	0.00	8,099.16	0.00	49.44	0.36	0.00	0.00	0.00
8,200.00	0.00	0.00	8,199.16	0.00	49.44	0.36	0.00	0.00	0.00
8,300.00	0.00	0.00	8,299.16	0.00	49.44	0.36	0.00	0.00	0.00
8,400.00	0.00	0.00	8,399.16	0.00	49.44	0.36	0.00	0.00	0.00
8,500.00	0.00	0.00	8,499.16	0.00	49.44	0.36	0.00	0.00	0.00
8,600.00	0.00	0.00	8,599.16	0.00	49.44	0.36	0.00	0.00	0.00
8,700.00	0.00	0.00	8,699.16	0.00	49.44	0.36	0.00	0.00	0.00
8,800.00	0.00	0.00	8,799.16	0.00	49.44	0.36	0.00	0.00	0.00
8,861.84	0.00	0.00	8,861.00	0.00	49.44	0.36	0.00	0.00	0.00

LEAM Drilling Systems LLC

Planning Report

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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)
Lwr Brushy									
8,900.00	0.00	0.00	8,899.16	0.00	49.44	0.36	0.00	0.00	0.00
9,000.00	0.00	0.00	8,999.16	0.00	49.44	0.36	0.00	0.00	0.00
9,076.84	0.00	0.00	9,076.00	0.00	49.44	0.36	0.00	0.00	0.00
Bone Spring									
9,100.00	0.00	0.00	9,099.16	0.00	49.44	0.36	0.00	0.00	0.00
9,178.84	0.00	0.00	9,178.00	0.00	49.44	0.36	0.00	0.00	0.00
Mid Leonard									
9,200.00	0.00	0.00	9,199.16	0.00	49.44	0.36	0.00	0.00	0.00
9,300.00	0.00	0.00	9,299.16	0.00	49.44	0.36	0.00	0.00	0.00
9,400.00	0.00	0.00	9,399.16	0.00	49.44	0.36	0.00	0.00	0.00
9,500.00	0.00	0.00	9,499.16	0.00	49.44	0.36	0.00	0.00	0.00
9,523.37	0.00	0.00	9,522.53	0.00	49.44	0.36	0.00	0.00	0.00
KOP 12" DLS									
9,525.00	0.20	179.58	9,524.16	0.00	49.44	0.37	12.00	12.00	0.00
9,550.00	3.20	179.58	9,549.15	-0.74	49.45	1.10	12.00	12.00	0.00
9,575.00	6.20	179.58	9,574.06	-2.79	49.46	3.15	12.00	12.00	0.00
9,600.00	9.20	179.58	9,598.83	-6.14	49.49	6.50	12.00	12.00	0.00
9,625.00	12.20	179.58	9,623.40	-10.77	49.52	11.14	12.00	12.00	0.00
9,638.97	13.87	179.58	9,637.00	-13.92	49.54	14.29	12.00	12.00	0.00
Lnd B									
9,650.00	15.20	179.58	9,647.68	-16.69	49.56	17.06	12.00	12.00	0.00
9,675.00	18.20	179.58	9,671.63	-23.87	49.62	24.24	12.00	12.00	0.00
9,700.00	21.20	179.58	9,695.16	-32.30	49.68	32.66	12.00	12.00	0.00
9,725.00	24.20	179.58	9,718.22	-41.94	49.75	42.31	12.00	12.00	0.00
9,750.00	27.20	179.58	9,740.75	-52.78	49.83	53.14	12.00	12.00	0.00
9,775.00	30.20	179.58	9,762.67	-64.78	49.92	65.15	12.00	12.00	0.00
9,800.00	33.20	179.58	9,783.94	-77.92	50.02	78.28	12.00	12.00	0.00
9,825.00	36.20	179.58	9,804.50	-92.14	50.12	92.51	12.00	12.00	0.00
9,850.00	39.20	179.58	9,824.28	-107.43	50.24	107.79	12.00	12.00	0.00
9,875.00	42.20	179.58	9,843.23	-123.73	50.36	124.09	12.00	12.00	0.00
9,900.00	45.20	179.58	9,861.30	-140.99	50.49	141.36	12.00	12.00	0.00
9,925.00	48.20	179.58	9,878.45	-159.18	50.62	159.55	12.00	12.00	0.00
9,950.00	51.20	179.58	9,894.62	-178.25	50.76	178.61	12.00	12.00	0.00
9,975.00	54.20	179.58	9,909.77	-198.13	50.91	198.50	12.00	12.00	0.00
10,000.00	57.20	179.58	9,923.85	-218.78	51.06	219.15	12.00	12.00	0.00
10,025.00	60.20	179.58	9,936.84	-240.14	51.22	240.50	12.00	12.00	0.00
10,050.00	63.20	179.58	9,948.69	-262.14	51.38	262.51	12.00	12.00	0.00
10,075.00	66.20	179.58	9,959.38	-284.74	51.55	285.11	12.00	12.00	0.00
10,100.00	69.20	179.58	9,968.87	-307.87	51.72	308.24	12.00	12.00	0.00
10,118.19	71.38	179.58	9,975.00	-324.99	51.85	325.36	12.00	12.00	0.00
Lnd C									
10,125.00	72.20	179.58	9,977.13	-331.46	51.90	331.83	12.00	12.00	0.00
10,150.00	75.20	179.58	9,984.15	-355.45	52.07	355.82	12.00	12.00	0.00
10,175.00	78.20	179.58	9,989.90	-379.78	52.25	380.15	12.00	12.00	0.00
10,200.00	81.20	179.58	9,994.37	-404.37	52.44	404.74	12.00	12.00	0.00
10,225.00	84.20	179.58	9,997.55	-429.16	52.62	429.54	12.00	12.00	0.00
10,250.00	87.20	179.58	9,999.43	-454.09	52.80	454.46	12.00	12.00	0.00
10,273.37	90.00	179.58	10,000.00	-477.45	52.98	477.83	12.00	12.00	0.00
LP									
10,300.00	90.00	179.58	10,000.00	-504.08	53.17	504.45	0.00	0.00	0.00
10,400.00	90.00	179.58	10,000.00	-604.07	53.91	604.45	0.00	0.00	0.00
10,500.00	90.00	179.58	10,000.00	-704.07	54.66	704.45	0.00	0.00	0.00

LEAM Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 107H
Company:	DEVON ENERGY	TVD Reference:	3726.7 @ 3750.20usft (Original Well Elev)
Project:	Lea County, NM (NAD-83)	MD Reference:	3726.7 @ 3750.20usft (Original Well Elev)
Site:	Thistle Unit	North Reference:	Grid
Well:	107H	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)
10,600.00	90.00	179.58	10,000.00	-804.07	55.40	804.45	0.00	0.00	0.00
10,700.00	90.00	179.58	10,000.00	-904.07	56.14	904.45	0.00	0.00	0.00
10,800.00	90.00	179.58	10,000.00	-1,004.06	56.88	1,004.45	0.00	0.00	0.00
10,900.00	90.00	179.58	10,000.00	-1,104.06	57.62	1,104.45	0.00	0.00	0.00
11,000.00	90.00	179.58	10,000.00	-1,204.06	58.36	1,204.45	0.00	0.00	0.00
11,100.00	90.00	179.58	10,000.00	-1,304.06	59.10	1,304.45	0.00	0.00	0.00
11,200.00	90.00	179.58	10,000.00	-1,404.05	59.84	1,404.45	0.00	0.00	0.00
11,300.00	90.00	179.58	10,000.00	-1,504.05	60.58	1,504.45	0.00	0.00	0.00
11,400.00	90.00	179.58	10,000.00	-1,604.05	61.32	1,604.45	0.00	0.00	0.00
11,500.00	90.00	179.58	10,000.00	-1,704.04	62.06	1,704.45	0.00	0.00	0.00
11,600.00	90.00	179.58	10,000.00	-1,804.04	62.80	1,804.45	0.00	0.00	0.00
11,700.00	90.00	179.58	10,000.00	-1,904.04	63.54	1,904.45	0.00	0.00	0.00
11,800.00	90.00	179.58	10,000.00	-2,004.04	64.28	2,004.45	0.00	0.00	0.00
11,900.00	90.00	179.58	10,000.00	-2,104.03	65.02	2,104.45	0.00	0.00	0.00
12,000.00	90.00	179.58	10,000.00	-2,204.03	65.76	2,204.45	0.00	0.00	0.00
12,100.00	90.00	179.58	10,000.00	-2,304.03	66.50	2,304.45	0.00	0.00	0.00
12,200.00	90.00	179.58	10,000.00	-2,404.03	67.24	2,404.45	0.00	0.00	0.00
12,300.00	90.00	179.58	10,000.00	-2,504.02	67.98	2,504.45	0.00	0.00	0.00
12,400.00	90.00	179.58	10,000.00	-2,604.02	68.72	2,604.45	0.00	0.00	0.00
12,500.00	90.00	179.58	10,000.00	-2,704.02	69.47	2,704.45	0.00	0.00	0.00
12,600.00	90.00	179.58	10,000.00	-2,804.01	70.21	2,804.45	0.00	0.00	0.00
12,700.00	90.00	179.58	10,000.00	-2,904.01	70.95	2,904.45	0.00	0.00	0.00
12,800.00	90.00	179.58	10,000.00	-3,004.01	71.69	3,004.45	0.00	0.00	0.00
12,900.00	90.00	179.58	10,000.00	-3,104.01	72.43	3,104.45	0.00	0.00	0.00
13,000.00	90.00	179.58	10,000.00	-3,204.00	73.17	3,204.45	0.00	0.00	0.00
13,100.00	90.00	179.58	10,000.00	-3,304.00	73.91	3,304.45	0.00	0.00	0.00
13,200.00	90.00	179.58	10,000.00	-3,404.00	74.65	3,404.45	0.00	0.00	0.00
13,300.00	90.00	179.58	10,000.00	-3,504.00	75.39	3,504.45	0.00	0.00	0.00
13,400.00	90.00	179.58	10,000.00	-3,603.99	76.13	3,604.45	0.00	0.00	0.00
13,500.00	90.00	179.58	10,000.00	-3,703.99	76.87	3,704.45	0.00	0.00	0.00
13,600.00	90.00	179.58	10,000.00	-3,803.99	77.61	3,804.45	0.00	0.00	0.00
13,700.00	90.00	179.58	10,000.00	-3,903.98	78.35	3,904.45	0.00	0.00	0.00
13,800.00	90.00	179.58	10,000.00	-4,003.98	79.09	4,004.45	0.00	0.00	0.00
13,900.00	90.00	179.58	10,000.00	-4,103.98	79.83	4,104.45	0.00	0.00	0.00
14,000.00	90.00	179.58	10,000.00	-4,203.98	80.57	4,204.45	0.00	0.00	0.00
14,100.00	90.00	179.58	10,000.00	-4,303.97	81.31	4,304.45	0.00	0.00	0.00
14,200.00	90.00	179.58	10,000.00	-4,403.97	82.05	4,404.45	0.00	0.00	0.00
14,300.00	90.00	179.58	10,000.00	-4,503.97	82.79	4,504.45	0.00	0.00	0.00
14,400.00	90.00	179.58	10,000.00	-4,603.97	83.53	4,604.45	0.00	0.00	0.00
14,500.00	90.00	179.58	10,000.00	-4,703.96	84.28	4,704.45	0.00	0.00	0.00
14,600.00	90.00	179.58	10,000.00	-4,803.96	85.02	4,804.45	0.00	0.00	0.00
14,700.00	90.00	179.58	10,000.00	-4,903.96	85.76	4,904.45	0.00	0.00	0.00
14,800.00	90.00	179.58	10,000.00	-5,003.95	86.50	5,004.45	0.00	0.00	0.00
14,900.00	90.00	179.58	10,000.00	-5,103.95	87.24	5,104.45	0.00	0.00	0.00
15,000.00	90.00	179.58	10,000.00	-5,203.95	87.98	5,204.45	0.00	0.00	0.00
15,100.00	90.00	179.58	10,000.00	-5,303.95	88.72	5,304.45	0.00	0.00	0.00
15,200.00	90.00	179.58	10,000.00	-5,403.94	89.46	5,404.45	0.00	0.00	0.00
15,300.00	90.00	179.58	10,000.00	-5,503.94	90.20	5,504.45	0.00	0.00	0.00
15,400.00	90.00	179.58	10,000.00	-5,603.94	90.94	5,604.45	0.00	0.00	0.00
15,500.00	90.00	179.58	10,000.00	-5,703.94	91.68	5,704.45	0.00	0.00	0.00
15,600.00	90.00	179.58	10,000.00	-5,803.93	92.42	5,804.45	0.00	0.00	0.00
15,700.00	90.00	179.58	10,000.00	-5,903.93	93.16	5,904.45	0.00	0.00	0.00
15,800.00	90.00	179.58	10,000.00	-6,003.93	93.90	6,004.45	0.00	0.00	0.00
15,900.00	90.00	179.58	10,000.00	-6,103.92	94.64	6,104.45	0.00	0.00	0.00

LEAM Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 107H
Company:	DEVON ENERGY	TVD Reference:	3726.7 @ 3750.20usft (Original Well Elev)
Project:	Lea County, NM (NAD-83)	MD Reference:	3726.7 @ 3750.20usft (Original Well Elev)
Site:	Thistle Unit	North Reference:	Grid
Well:	107H	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)	
16,000.00	90.00	179.58	10,000.00	-6,203.92	95.38	6,204.45	0.00	0.00	0.00	
16,100.00	90.00	179.58	10,000.00	-6,303.92	96.12	6,304.45	0.00	0.00	0.00	
16,200.00	90.00	179.58	10,000.00	-6,403.92	96.86	6,404.45	0.00	0.00	0.00	
16,300.00	90.00	179.58	10,000.00	-6,503.91	97.60	6,504.45	0.00	0.00	0.00	
16,400.00	90.00	179.58	10,000.00	-6,603.91	98.34	6,604.45	0.00	0.00	0.00	
16,500.00	90.00	179.58	10,000.00	-6,703.91	99.08	6,704.45	0.00	0.00	0.00	
16,600.00	90.00	179.58	10,000.00	-6,803.91	99.83	6,804.45	0.00	0.00	0.00	
16,700.00	90.00	179.58	10,000.00	-6,903.90	100.57	6,904.45	0.00	0.00	0.00	
16,800.00	90.00	179.58	10,000.00	-7,003.90	101.31	7,004.45	0.00	0.00	0.00	
16,900.00	90.00	179.58	10,000.00	-7,103.90	102.05	7,104.45	0.00	0.00	0.00	
17,000.00	90.00	179.58	10,000.00	-7,203.89	102.79	7,204.45	0.00	0.00	0.00	
17,100.00	90.00	179.58	10,000.00	-7,303.89	103.53	7,304.45	0.00	0.00	0.00	
17,200.00	90.00	179.58	10,000.00	-7,403.89	104.27	7,404.45	0.00	0.00	0.00	
17,300.00	90.00	179.58	10,000.00	-7,503.89	105.01	7,504.45	0.00	0.00	0.00	
17,400.00	90.00	179.58	10,000.00	-7,603.88	105.75	7,604.45	0.00	0.00	0.00	
17,420.33	90.00	179.58	10,000.00	-7,624.21	105.90	7,624.78	0.00	0.00	0.00	
TD - PBHL (TU 107H)										

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
SHL (TU 107H)	0.00	0.00	0.00	0.00	0.00	472,521.73	775,258.32	32° 17' 48.357 N	103° 34' 34.615 W
- plan hits target center									
- Point									
PBHL (TU 107H)	0.00	0.00	10,000.00	-7,624.21	105.90	464,897.52	775,364.22	32° 16' 32.907 N	103° 34' 34.008 W
- plan hits target center									
- Point									

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		
5,213.03	5,213.00	Delaware		0.00		
6,174.61	6,174.00	Cherry Cyn		0.00		
8,861.84	8,861.00	Lwr Brushy		0.00		
9,076.84	9,076.00	Bone Spring		0.00		
9,178.84	9,178.00	Mid Leonard		0.00		
9,638.97	9,637.00	Lnd B		0.00		
10,118.19	9,975.00	Lnd C		0.00		

LEAM Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 107H
Company:	DEVON ENERGY	TVD Reference:	3726.7 @ 3750.20usft (Original Well Elev)
Project:	Lea County, NM (NAD-83)	MD Reference:	3726.7 @ 3750.20usft (Original Well Elev)
Site:	Thistle Unit	North Reference:	Grid
Well:	107H	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)		
5,100.00	5,100.00	0.00	0.00	Nudge	
5,200.00	5,199.98	0.00	1.75	Hold	
6,500.00	6,499.19	0.00	47.11	Drop	
6,633.33	6,632.49	0.00	49.44	Hold	
9,523.37	9,522.53	0.00	49.44	KOP 12" DLS	
10,273.37	10,000.00	-477.45	52.98	LP	
17,420.33	10,000.00	-7,624.21	105.90	TD	

DEVON ENERGY

Lea County, NM (NAD-83)

Thistle Unit

107H

OH

Plan #1

Anticollision Report

09 September, 2015

LEAM Drilling Systems LLC

Anticollision Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 107H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3726.7 @ 3750.20usft (Original Well Elev)
Reference Site:	Thistle Unit	MD Reference:	3726.7 @ 3750.20usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	107H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Reference	Plan #1		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	ISCWSA
Depth Range:	0.00 to 11,000.00usft	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 9,999.98 usft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program	Date 9/9/2015			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	17,420.29	Plan #1 (OH)	LEAM MWD-ADJ	MWD - Standard

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Thistle Unit						
122H - OH - Plan #1	5,100.00	5,099.80	49.98	27.33	2.207	CC, ES, SF
51H - 51H OH - 51H OH	10,900.00	9,887.25	4,834.18	4,802.90	154.544	CC, ES, SF
52H - 52H OH - 52H OH	10,900.00	9,800.80	4,232.87	4,199.50	126.824	CC, ES, SF
54H - OH - OH	10,900.00	9,936.38	4,396.77	4,349.22	92.477	CC, ES, SF
60H - OH - OH	9,625.00	16,045.00	2,197.24	2,097.31	21.988	SF
60H - OH - OH	10,900.00	14,985.50	1,933.65	1,852.07	23.702	CC, ES
66H - OH - OH	10,900.00	17,110.00	7,619.69	7,473.46	52.108	CC, ES, SF
77H - OH - Plan #1	5,447.70	5,447.32	42.66	18.54	1.769	CC, ES
77H - OH - Plan #1	5,500.00	5,499.39	42.94	18.60	1.764	SF
Thistle Unit (Offsets)						
18H - OH - OH	10,900.00	8,584.00	4,568.77	4,531.48	122.523	CC, ES, SF
2 - 2 OH - 2 OH	10,900.00	10,394.00	6,127.98	6,072.27	110.000	CC, ES, SF

Offset Design Thistle Unit - 122H - 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		
0.00	0.00	0.00	0.00	0.00	0.00	-90.40	-0.35	-49.98	49.98					
100.00	100.00	99.80	99.80	0.09	0.09	-90.40	-0.35	-49.98	49.98	49.81	0.17	290.970		
200.00	200.00	199.80	199.80	0.31	0.31	-90.40	-0.35	-49.98	49.98	49.36	0.62	80.481		
300.00	300.00	299.80	299.80	0.54	0.54	-90.40	-0.35	-49.98	49.98	48.91	1.07	46.687		
400.00	400.00	399.80	399.80	0.76	0.76	-90.40	-0.35	-49.98	49.98	48.46	1.52	32.880		
500.00	500.00	499.80	499.80	0.99	0.98	-90.40	-0.35	-49.98	49.98	48.01	1.97	25.376		
600.00	600.00	599.80	599.80	1.21	1.21	-90.40	-0.35	-49.98	49.98	47.56	2.42	20.661		
700.00	700.00	699.80	699.80	1.43	1.43	-90.40	-0.35	-49.98	49.98	47.11	2.87	17.423		
800.00	800.00	799.80	799.80	1.66	1.66	-90.40	-0.35	-49.98	49.98	46.66	3.32	15.063		
900.00	900.00	899.80	899.80	1.88	1.88	-90.40	-0.35	-49.98	49.98	46.21	3.77	13.266		
1,000.00	1,000.00	999.80	999.80	2.11	2.11	-90.40	-0.35	-49.98	49.98	45.76	4.22	11.852		
1,100.00	1,100.00	1,099.80	1,099.80	2.33	2.33	-90.40	-0.35	-49.98	49.98	45.31	4.67	10.710		
1,200.00	1,200.00	1,199.80	1,199.80	2.56	2.56	-90.40	-0.35	-49.98	49.98	44.86	5.12	9.769		
1,300.00	1,300.00	1,299.80	1,299.80	2.78	2.78	-90.40	-0.35	-49.98	49.98	44.42	5.57	8.980		
1,400.00	1,400.00	1,399.80	1,399.80	3.01	3.01	-90.40	-0.35	-49.98	49.98	43.97	6.02	8.309		

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 107H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3726.7 @ 3750.20usft (Original Well Elev)
Reference Site:	Thistle Unit	MD Reference:	3726.7 @ 3750.20usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	107H	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 - 122H - 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		
1,500.00	1,500.00	1,499.80	1,499.80	3.23	3.23	-90.40	-0.35	-49.98	49.98	43.52	6.46	7.731		
1,600.00	1,600.00	1,599.80	1,599.80	3.46	3.46	-90.40	-0.35	-49.98	49.98	43.07	6.91	7.228		
1,700.00	1,700.00	1,699.80	1,699.80	3.68	3.68	-90.40	-0.35	-49.98	49.98	42.62	7.36	6.787		
1,800.00	1,800.00	1,799.80	1,799.80	3.91	3.91	-90.40	-0.35	-49.98	49.98	42.17	7.81	6.397		
1,900.00	1,900.00	1,899.80	1,899.80	4.13	4.13	-90.40	-0.35	-49.98	49.98	41.72	8.26	6.049		
2,000.00	2,000.00	1,999.80	1,999.80	4.36	4.36	-90.40	-0.35	-49.98	49.98	41.27	8.71	5.737		
2,100.00	2,100.00	2,099.80	2,099.80	4.58	4.58	-90.40	-0.35	-49.98	49.98	40.82	9.16	5.455		
2,200.00	2,200.00	2,199.80	2,199.80	4.81	4.81	-90.40	-0.35	-49.98	49.98	40.37	9.61	5.200		
2,300.00	2,300.00	2,299.80	2,299.80	5.03	5.03	-90.40	-0.35	-49.98	49.98	39.92	10.06	4.968		
2,400.00	2,400.00	2,399.80	2,399.80	5.26	5.26	-90.40	-0.35	-49.98	49.98	39.47	10.51	4.755		
2,500.00	2,500.00	2,499.80	2,499.80	5.48	5.48	-90.40	-0.35	-49.98	49.98	39.02	10.96	4.560		
2,600.00	2,600.00	2,599.80	2,599.80	5.71	5.70	-90.40	-0.35	-49.98	49.98	38.57	11.41	4.381		
2,700.00	2,700.00	2,699.80	2,699.80	5.93	5.93	-90.40	-0.35	-49.98	49.98	38.12	11.86	4.215		
2,800.00	2,800.00	2,799.80	2,799.80	6.15	6.15	-90.40	-0.35	-49.98	49.98	37.67	12.31	4.061		
2,900.00	2,900.00	2,899.80	2,899.80	6.38	6.38	-90.40	-0.35	-49.98	49.98	37.22	12.76	3.918		
3,000.00	3,000.00	2,999.80	2,999.80	6.60	6.60	-90.40	-0.35	-49.98	49.98	36.77	13.21	3.784		
3,100.00	3,100.00	3,099.80	3,099.80	6.83	6.83	-90.40	-0.35	-49.98	49.98	36.32	13.66	3.660		
3,200.00	3,200.00	3,199.80	3,199.80	7.05	7.05	-90.40	-0.35	-49.98	49.98	35.87	14.11	3.543		
3,300.00	3,300.00	3,299.80	3,299.80	7.28	7.28	-90.40	-0.35	-49.98	49.98	35.42	14.56	3.434		
3,400.00	3,400.00	3,399.80	3,399.80	7.50	7.50	-90.40	-0.35	-49.98	49.98	34.98	15.01	3.331		
3,500.00	3,500.00	3,499.80	3,499.80	7.73	7.73	-90.40	-0.35	-49.98	49.98	34.53	15.46	3.234		
3,600.00	3,600.00	3,599.80	3,599.80	7.95	7.95	-90.40	-0.35	-49.98	49.98	34.08	15.91	3.142		
3,700.00	3,700.00	3,699.80	3,699.80	8.18	8.18	-90.40	-0.35	-49.98	49.98	33.63	16.35	3.056		
3,800.00	3,800.00	3,799.80	3,799.80	8.40	8.40	-90.40	-0.35	-49.98	49.98	33.18	16.80	2.974		
3,900.00	3,900.00	3,899.80	3,899.80	8.63	8.63	-90.40	-0.35	-49.98	49.98	32.73	17.25	2.897		
4,000.00	4,000.00	3,999.80	3,999.80	8.85	8.85	-90.40	-0.35	-49.98	49.98	32.28	17.70	2.823		
4,100.00	4,100.00	4,099.80	4,099.80	9.08	9.08	-90.40	-0.35	-49.98	49.98	31.83	18.15	2.753		
4,200.00	4,200.00	4,199.80	4,199.80	9.30	9.30	-90.40	-0.35	-49.98	49.98	31.38	18.60	2.687		
4,300.00	4,300.00	4,299.80	4,299.80	9.53	9.53	-90.40	-0.35	-49.98	49.98	30.93	19.05	2.623		
4,400.00	4,400.00	4,399.80	4,399.80	9.75	9.75	-90.40	-0.35	-49.98	49.98	30.48	19.50	2.563		
4,500.00	4,500.00	4,499.80	4,499.80	9.98	9.98	-90.40	-0.35	-49.98	49.98	30.03	19.95	2.505		
4,600.00	4,600.00	4,599.80	4,599.80	10.20	10.20	-90.40	-0.35	-49.98	49.98	29.58	20.40	2.450		
4,700.00	4,700.00	4,699.80	4,699.80	10.43	10.42	-90.40	-0.35	-49.98	49.98	29.13	20.85	2.397		
4,800.00	4,800.00	4,799.80	4,799.80	10.65	10.65	-90.40	-0.35	-49.98	49.98	28.68	21.30	2.347		
4,900.00	4,900.00	4,899.80	4,899.80	10.87	10.87	-90.40	-0.35	-49.98	49.98	28.23	21.75	2.298		
5,000.00	5,000.00	4,999.80	4,999.80	11.10	11.10	-90.40	-0.35	-49.98	49.98	27.78	22.20	2.252		
5,100.00	5,100.00	5,099.80	5,099.80	11.32	11.32	-90.40	-0.35	-49.98	49.98	27.33	22.65	2.207 CC, ES, SF		
5,200.00	5,199.98	5,199.78	5,199.78	11.54	11.55	179.61	-0.35	-49.98	51.73	26.66	23.07	2.242		
5,300.00	5,299.92	5,299.72	5,299.72	11.73	11.77	179.64	-0.35	-49.98	55.22	31.73	23.49	2.351		
5,400.00	5,399.86	5,399.66	5,399.66	11.93	12.00	179.66	-0.35	-49.98	58.71	34.79	23.91	2.455		
5,500.00	5,499.80	5,499.60	5,499.60	12.13	12.22	179.68	-0.35	-49.98	62.20	37.86	24.33	2.556		
5,600.00	5,599.74	5,599.54	5,599.54	12.34	12.45	179.69	-0.35	-49.98	65.69	40.93	24.76	2.653		
5,700.00	5,699.68	5,699.48	5,699.48	12.54	12.67	179.71	-0.35	-49.98	69.18	43.99	25.18	2.747		
5,800.00	5,799.61	5,799.41	5,799.41	12.74	12.90	179.72	-0.35	-49.98	72.67	47.06	25.61	2.838		
5,900.00	5,899.55	5,899.35	5,899.35	12.95	13.12	179.74	-0.35	-49.98	76.16	50.12	26.03	2.925		
6,000.00	5,999.49	5,999.29	5,999.29	13.15	13.35	179.75	-0.35	-49.98	79.65	53.18	26.46	3.010		
6,100.00	6,099.43	6,099.23	6,099.23	13.36	13.57	179.76	-0.35	-49.98	83.14	56.25	26.89	3.092		
6,200.00	6,199.37	6,199.17	6,199.17	13.57	13.79	179.77	-0.35	-49.98	86.63	59.31	27.32	3.171		
6,300.00	6,299.31	6,299.11	6,299.11	13.78	14.02	179.78	-0.35	-49.98	90.12	62.37	27.75	3.248		
6,400.00	6,399.25	6,399.05	6,399.05	13.98	14.24	179.79	-0.35	-49.98	93.61	65.43	28.18	3.322		
6,500.00	6,499.19	6,498.99	6,498.99	14.19	14.47	179.79	-0.35	-49.98	97.10	68.49	28.61	3.394		
6,600.00	6,599.16	6,598.96	6,598.96	14.40	14.69	179.80	-0.35	-49.98	99.28	70.23	29.05	3.418		

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 107H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3726.7 @ 3750.20usft (Original Well Elev)
Reference Site:	Thistle Unit	MD Reference:	3726.7 @ 3750.20usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	107H	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 - 122H - OH - Plan #1													Offset Site Error:	0.00 usft
Survey Program: O-LEAM MWD-ADJ													Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis		Distance		Minimum		Separation		Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
6,633.33	6,632.49	6,632.29	6,632.29	14.46	14.77	-90.20	-0.35	-49.98	99.42	70.24	29.18	3.407		
6,700.00	6,699.16	6,698.96	6,698.96	14.59	14.92	-90.20	-0.35	-49.98	99.42	69.96	29.47	3.374		
6,800.00	6,799.16	6,798.96	6,798.96	14.81	15.14	-90.20	-0.35	-49.98	99.42	69.51	29.91	3.324		
6,900.00	6,899.16	6,898.96	6,898.96	15.04	15.37	-90.20	-0.35	-49.98	99.42	69.06	30.38	3.275		
7,000.00	6,999.16	6,998.96	6,998.96	15.26	15.59	-90.20	-0.35	-49.98	99.42	68.61	30.81	3.227		
7,100.00	7,099.16	7,098.96	7,098.96	15.48	15.82	-90.20	-0.35	-49.98	99.42	68.16	31.26	3.181		
7,200.00	7,199.16	7,198.96	7,198.96	15.71	16.04	-90.20	-0.35	-49.98	99.42	67.71	31.71	3.136		
7,300.00	7,299.16	7,298.96	7,298.96	15.93	16.27	-90.20	-0.35	-49.98	99.42	67.27	32.16	3.092		
7,400.00	7,399.16	7,398.96	7,398.96	16.15	16.49	-90.20	-0.35	-49.98	99.42	66.82	32.60	3.049		
7,500.00	7,499.16	7,498.96	7,498.96	16.38	16.72	-90.20	-0.35	-49.98	99.42	66.37	33.05	3.008		
7,600.00	7,599.16	7,598.96	7,598.96	16.60	16.94	-90.20	-0.35	-49.98	99.42	65.92	33.50	2.968		
7,700.00	7,699.16	7,698.96	7,698.96	16.82	17.17	-90.20	-0.35	-49.98	99.42	65.47	33.95	2.929		
7,800.00	7,799.16	7,798.96	7,798.96	17.05	17.39	-90.20	-0.35	-49.98	99.42	65.02	34.40	2.890		
7,900.00	7,899.16	7,898.96	7,898.96	17.27	17.62	-90.20	-0.35	-49.98	99.42	64.58	34.85	2.853		
8,000.00	7,999.16	7,998.96	7,998.96	17.49	17.84	-90.20	-0.35	-49.98	99.42	64.13	35.29	2.817		
8,100.00	8,099.16	8,098.96	8,098.96	17.72	18.06	-90.20	-0.35	-49.98	99.42	63.68	35.74	2.782		
8,200.00	8,199.16	8,198.96	8,198.96	17.94	18.29	-90.20	-0.35	-49.98	99.42	63.23	36.19	2.747		
8,300.00	8,299.16	8,298.96	8,298.96	18.17	18.51	-90.20	-0.35	-49.98	99.42	62.78	36.64	2.713		
8,400.00	8,399.16	8,398.96	8,398.96	18.39	18.74	-90.20	-0.35	-49.98	99.42	62.33	37.09	2.681		
8,500.00	8,499.16	8,498.96	8,498.96	18.61	18.96	-90.20	-0.35	-49.98	99.42	61.88	37.54	2.649		
8,600.00	8,599.16	8,598.96	8,598.96	18.84	19.19	-90.20	-0.35	-49.98	99.42	61.44	37.99	2.617		
8,700.00	8,699.16	8,698.96	8,698.96	19.06	19.41	-90.20	-0.35	-49.98	99.42	60.99	38.43	2.587		
8,800.00	8,799.16	8,798.96	8,798.96	19.28	19.64	-90.20	-0.35	-49.98	99.42	60.54	38.88	2.557		
8,900.00	8,899.16	8,898.96	8,898.96	19.51	19.86	-90.20	-0.35	-49.98	99.42	60.09	39.33	2.528		
9,000.00	8,999.16	8,998.96	8,998.96	19.73	20.09	-90.20	-0.35	-49.98	99.42	59.64	39.78	2.499		
9,100.00	9,099.16	9,098.96	9,098.96	19.96	20.31	-90.20	-0.35	-49.98	99.42	59.19	40.23	2.471		
9,200.00	9,199.16	9,199.39	9,199.38	20.18	20.53	-90.33	-0.58	-49.95	99.39	58.72	40.67	2.444		
9,299.68	9,298.84	9,299.70	9,298.64	20.40	20.70	-98.20	-14.04	-48.01	98.45	57.39	41.06	2.398		
9,300.00	9,299.16	9,300.07	9,298.94	20.40	20.71	-98.24	-14.12	-48.00	98.45	57.39	41.06	2.398		
9,400.00	9,399.16	9,391.37	9,384.96	20.63	20.86	-115.29	-44.00	-43.69	103.95	62.51	41.44	2.508		
9,500.00	9,499.16	9,469.07	9,452.53	20.85	20.99	-133.02	-81.81	-38.24	128.60	66.78	41.82	3.075		
9,523.37	9,522.53	9,485.18	9,465.70	20.90	21.01	-136.49	-90.98	-36.92	137.63	95.73	41.90	3.285		
9,525.00	9,524.16	9,486.27	9,466.59	20.91	21.02	43.64	-91.82	-36.83	138.30	96.39	41.91	3.300		
9,550.00	9,549.15	9,502.97	9,479.88	20.95	21.05	39.47	-101.61	-35.39	148.80	106.85	41.95	3.547		
9,575.00	9,574.06	9,519.45	9,492.66	20.99	21.08	35.81	-111.92	-33.90	159.54	117.81	41.93	3.805		
9,600.00	9,598.83	9,535.75	9,504.93	21.04	21.12	32.61	-122.54	-32.37	170.39	128.55	41.84	4.073		
9,625.00	9,623.40	9,550.00	9,515.35	21.08	21.15	30.03	-132.16	-30.99	181.24	139.58	41.86	4.351		
9,650.00	9,647.88	9,567.86	9,527.99	21.13	21.19	27.33	-144.64	-29.19	191.97	150.57	41.40	4.637		
9,675.00	9,671.83	9,583.88	9,538.79	21.17	21.23	25.14	-156.08	-27.54	202.54	161.49	41.05	4.934		
9,700.00	9,695.16	9,600.00	9,549.52	21.22	21.28	23.15	-168.25	-25.79	212.91	172.29	40.82	5.241		
9,725.00	9,718.22	9,614.96	9,558.99	21.28	21.32	21.48	-179.71	-24.13	223.01	182.90	40.11	5.560		
9,750.00	9,740.75	9,630.42	9,568.38	21.31	21.37	19.94	-191.87	-22.38	232.81	193.29	39.52	5.890		
9,775.00	9,762.67	9,645.79	9,577.32	21.35	21.42	18.55	-204.24	-20.60	242.29	203.42	38.86	6.235		
9,800.00	9,783.94	9,661.05	9,585.80	21.40	21.47	17.30	-216.80	-18.79	251.41	213.28	38.13	6.593		
9,825.00	9,804.50	9,675.00	9,593.18	21.44	21.52	16.24	-228.51	-17.10	260.16	222.82	37.34	6.967		
9,850.00	9,824.28	9,691.34	9,601.40	21.49	21.58	15.15	-242.50	-15.09	268.51	232.02	36.49	7.358		
9,875.00	9,843.23	9,706.37	9,608.52	21.54	21.64	14.21	-255.80	-13.20	276.45	240.86	35.59	7.767		
9,900.00	9,861.30	9,725.00	9,616.76	21.59	21.72	13.20	-272.13	-10.82	284.00	249.36	34.65	8.197		
9,925.00	9,878.45	9,736.24	9,621.41	21.65	21.77	12.56	-282.25	-9.36	291.04	257.37	33.88	8.642		
9,950.00	9,894.82	9,750.00	9,626.78	21.72	21.83	11.88	-294.79	-7.55	297.67	264.99	32.68	9.108		
9,975.00	9,909.77	9,765.88	9,632.53	21.80	21.90	11.17	-309.45	-5.44	303.84	272.17	31.87	9.593		
10,000.00	9,923.85	9,780.63	9,637.41	21.88	21.98	10.55	-323.22	-3.45	309.54	278.88	30.66	10.095		

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: 107H
 Well Error: 0.00 usft
 Reference Wellbore: OH
 Reference Design: Plan #1

Local Co-ordinate Reference: Well 107H
 TVD Reference: 3726.7 @ 3750.20usft (Original Well Elev)
 MD Reference: 3726.7 @ 3750.20usft (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 - 122H - 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)			
10,025.00	9,936.84	9,800.00	9,843.17	21.96	22.07	9.82	-341.52	-0.82	314.82	285.16	29.65	10.617	
10,050.00	9,948.69	9,810.01	9,845.86	22.06	22.13	9.43	-351.07	0.56	319.50	290.81	28.69	11.138	
10,075.00	9,959.38	9,825.00	9,849.49	22.16	22.21	8.91	-365.46	2.63	323.75	296.00	27.75	11.667	
10,100.00	9,968.87	9,839.26	9,852.53	22.27	22.29	8.45	-379.25	4.62	327.50	300.63	26.87	12.189	
10,125.00	9,977.13	9,850.00	9,854.54	22.39	22.35	8.10	-389.69	6.13	330.79	304.72	26.07	12.691	
10,150.00	9,984.15	9,868.41	9,857.43	22.51	22.47	7.57	-407.88	8.72	333.50	308.16	25.34	13.161	
10,175.00	9,989.90	9,882.95	9,859.22	22.64	22.56	7.17	-421.97	10.78	335.73	311.01	24.73	13.578	
10,200.00	9,994.37	9,900.00	9,860.76	22.78	22.67	6.73	-436.78	13.20	337.48	313.24	24.23	13.927	
10,225.00	9,997.55	9,912.00	9,861.47	22.93	22.75	6.43	-450.63	14.91	338.67	314.79	23.88	14.182	
10,250.00	9,999.43	9,925.00	9,861.91	23.08	22.83	6.11	-463.49	16.76	339.37	315.70	23.67	14.337	
10,273.37	10,000.00	9,943.90	9,862.01	23.23	22.96	5.67	-482.20	19.44	339.49	315.88	23.61	14.378	
10,300.00	10,000.00	9,970.08	9,862.01	23.41	23.15	5.11	-508.14	23.03	339.16	315.51	23.65	14.340	
10,400.00	10,000.00	10,068.80	9,862.01	24.15	23.90	3.22	-606.13	34.93	336.33	314.41	23.92	14.145	
10,500.00	10,000.00	10,168.04	9,862.01	25.00	24.74	1.75	-704.92	44.34	337.95	313.61	24.34	13.883	
10,600.00	10,000.00	10,267.66	9,862.00	25.96	25.69	0.71	-804.30	51.20	337.82	312.93	24.89	13.572	
10,700.00	10,000.00	10,367.54	9,862.00	27.00	26.73	0.11	-904.09	55.48	337.79	312.26	25.53	13.230	
10,736.46	10,000.00	10,403.99	9,862.00	27.41	27.12	0.00	-940.52	56.39	337.79	312.01	25.79	13.100	
10,800.00	10,000.00	10,467.53	9,862.00	28.13	27.84	-0.05	-1,004.06	57.18	337.79	311.55	26.24	12.872	
10,900.00	10,000.00	10,567.53	9,862.00	29.32	29.01	-0.05	-1,104.06	57.91	337.79	310.78	27.02	12.503	

LEAM Drilling Systems LLC

Anticollision Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 107H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3726.7 @ 3750.20usft (Original Well Elev)
Reference Site:	Thistle Unit	MD Reference:	3726.7 @ 3750.20usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	107H	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 - 51H - 51H OH - 51H OH												Offset Site Error:	0.00 usft
Survey Program: 100- VES GyroFlex V2. 10532-LEAM MWD+HDGM, 15636-Project												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-154.70	-5,242.62	-2,478.33	5,799.05				
100.00	100.00	74.38	74.38	0.09	0.05	-154.70	-5,242.54	-2,478.26	5,798.81	5,798.88	0.13	N/A	
200.00	200.00	160.91	160.91	0.31	0.14	-154.70	-5,242.40	-2,478.04	5,798.57	5,798.12	0.45	N/A	
213.01	213.01	170.80	170.80	0.34	0.15	-154.70	-5,242.41	-2,478.01	5,798.57	5,798.07	0.49	N/A	
300.00	300.00	251.72	251.72	0.54	0.22	-154.70	-5,242.60	-2,477.81	5,798.66	5,797.90	0.76	7,613.720	
400.00	400.00	354.03	354.03	0.76	0.29	-154.71	-5,242.84	-2,477.47	5,798.73	5,797.68	1.05	5,496.853	
500.00	500.00	450.48	450.48	0.99	0.35	-154.71	-5,243.10	-2,477.11	5,798.82	5,797.48	1.34	4,343.395	
600.00	600.00	550.74	550.74	1.21	0.40	-154.72	-5,243.46	-2,476.71	5,798.97	5,797.36	1.61	3,610.349	
700.00	700.00	648.23	648.23	1.43	0.43	-154.71	-5,243.47	-2,476.94	5,799.07	5,797.21	1.86	3,112.363	
800.00	800.00	748.87	748.86	1.66	0.46	-154.71	-5,243.53	-2,477.30	5,799.29	5,797.17	2.12	2,740.556	
900.00	900.00	855.49	855.48	1.88	0.49	-154.71	-5,243.41	-2,477.73	5,799.35	5,796.98	2.37	2,446.417	
1,000.00	1,000.00	951.35	951.35	2.11	0.51	-154.70	-5,243.27	-2,478.16	5,799.41	5,798.79	2.62	2,211.092	
1,100.00	1,100.00	1,042.34	1,042.33	2.33	0.54	-154.70	-5,243.09	-2,478.92	5,799.59	5,798.72	2.87	2,018.055	
1,200.00	1,200.00	1,135.03	1,135.02	2.56	0.57	-154.69	-5,243.04	-2,479.79	5,799.94	5,798.82	3.13	1,855.479	
1,300.00	1,300.00	1,244.47	1,244.45	2.78	0.60	-154.68	-5,242.96	-2,480.88	5,800.31	5,798.92	3.38	1,714.460	
1,400.00	1,400.00	1,355.42	1,355.39	3.01	0.64	-154.67	-5,242.58	-2,481.90	5,800.38	5,798.74	3.64	1,592.784	
1,500.00	1,500.00	1,456.91	1,456.88	3.23	0.67	-154.66	-5,242.12	-2,482.95	5,800.42	5,798.53	3.90	1,488.042	
1,600.00	1,600.00	1,554.21	1,554.17	3.46	0.70	-154.64	-5,241.60	-2,484.10	5,800.44	5,798.29	4.15	1,396.843	
1,700.00	1,700.00	1,644.78	1,644.73	3.68	0.73	-154.63	-5,241.12	-2,485.39	5,800.58	5,798.17	4.41	1,316.418	
1,800.00	1,800.00	1,757.02	1,756.96	3.91	0.76	-154.61	-5,240.63	-2,487.04	5,800.82	5,798.16	4.67	1,243.024	
1,878.54	1,878.54	1,835.12	1,835.04	4.08	0.79	-154.60	-5,240.00	-2,488.16	5,800.74	5,795.87	4.87	1,191.559	
1,900.00	1,900.00	1,850.14	1,850.06	4.13	0.79	-154.60	-5,239.90	-2,488.41	5,800.75	5,795.83	4.92	1,178.720	
2,000.00	2,000.00	1,935.20	1,935.11	4.36	0.82	-154.58	-5,239.48	-2,490.02	5,801.11	5,795.94	5.17	1,121.338	
2,100.00	2,100.00	2,032.86	2,032.74	4.58	0.85	-154.56	-5,238.88	-2,491.96	5,801.41	5,795.98	5.43	1,068.482	
2,200.00	2,200.00	2,105.80	2,105.67	4.81	0.88	-154.55	-5,238.72	-2,493.49	5,802.10	5,796.42	5.68	1,021.921	
2,300.00	2,300.00	2,238.84	2,238.68	5.03	0.92	-154.52	-5,238.17	-2,496.29	5,802.61	5,796.66	5.95	976.009	
2,400.00	2,400.00	2,346.60	2,346.41	5.26	0.96	-154.50	-5,237.48	-2,498.47	5,802.90	5,796.70	6.21	935.135	
2,500.00	2,500.00	2,453.21	2,453.00	5.48	0.99	-154.48	-5,236.68	-2,500.44	5,803.00	5,796.54	6.47	897.540	
2,600.00	2,600.00	2,565.37	2,565.14	5.71	1.03	-154.45	-5,235.71	-2,502.50	5,803.04	5,796.31	6.73	862.585	
2,700.00	2,700.00	2,666.92	2,666.67	5.93	1.06	-154.43	-5,234.63	-2,504.31	5,802.84	5,795.86	6.99	830.625	
2,800.00	2,800.00	2,765.66	2,765.59	6.15	1.10	-154.41	-5,233.63	-2,506.11	5,802.72	5,795.48	7.24	801.037	
2,900.00	2,900.00	2,867.09	2,866.80	6.38	1.13	-154.39	-5,232.60	-2,507.91	5,802.57	5,795.07	7.50	773.394	
2,987.05	2,987.05	2,945.16	2,944.85	6.58	1.16	-154.38	-5,231.91	-2,509.15	5,802.48	5,794.75	7.72	751.166	
3,000.00	3,000.00	2,955.92	2,955.61	6.60	1.16	-154.38	-5,231.83	-2,509.33	5,802.48	5,794.72	7.76	747.999	
3,100.00	3,100.00	3,046.08	3,045.76	6.83	1.19	-154.36	-5,231.22	-2,510.93	5,802.63	5,794.62	8.01	724.201	
3,200.00	3,200.00	3,153.38	3,153.03	7.05	1.23	-154.34	-5,230.42	-2,513.06	5,802.82	5,794.55	8.27	701.376	
3,300.00	3,300.00	3,253.17	3,252.80	7.28	1.26	-154.32	-5,229.60	-2,514.81	5,802.84	5,794.31	8.53	680.126	
3,400.00	3,400.00	3,351.71	3,351.33	7.50	1.29	-154.30	-5,229.00	-2,516.39	5,802.99	5,794.20	8.79	660.172	
3,500.00	3,500.00	3,457.53	3,457.14	7.73	1.33	-154.29	-5,228.40	-2,517.74	5,803.03	5,793.98	9.05	641.164	
3,600.00	3,600.00	3,558.83	3,558.43	7.95	1.36	-154.27	-5,227.69	-2,519.22	5,803.03	5,793.72	9.31	623.309	
3,700.00	3,700.00	3,661.68	3,661.26	8.18	1.40	-154.25	-5,226.82	-2,520.82	5,802.90	5,793.33	9.58	606.012	
3,800.00	3,800.00	3,763.25	3,762.82	8.40	1.43	-154.24	-5,225.97	-2,521.31	5,802.44	5,792.61	9.83	590.108	
3,900.00	3,900.00	3,879.43	3,879.00	8.63	1.46	-154.24	-5,225.22	-2,521.98	5,802.04	5,791.96	10.09	575.107	
4,000.00	4,000.00	3,962.48	3,962.04	8.85	1.49	-154.23	-5,224.69	-2,522.59	5,801.80	5,791.46	10.34	561.059	
4,100.00	4,100.00	4,074.32	4,073.88	9.08	1.53	-154.22	-5,224.15	-2,523.57	5,801.76	5,791.15	10.60	547.212	
4,200.00	4,200.00	4,188.79	4,188.35	9.30	1.56	-154.21	-5,223.58	-2,524.09	5,801.46	5,790.60	10.86	534.300	
4,300.00	4,300.00	4,271.90	4,271.45	9.53	1.59	-154.20	-5,223.18	-2,524.56	5,801.31	5,790.19	11.12	521.887	
4,400.00	4,400.00	4,374.89	4,374.24	9.75	1.61	-154.20	-5,222.77	-2,524.74	5,801.02	5,789.66	11.36	510.455	
4,500.00	4,500.00	4,480.79	4,480.34	9.98	1.62	-154.20	-5,222.55	-2,524.39	5,800.70	5,789.11	11.59	500.359	
4,600.00	4,600.00	4,569.31	4,568.86	10.20	1.61	-154.21	-5,222.52	-2,523.81	5,800.38	5,788.57	11.81	491.182	
4,700.00	4,700.00	4,698.55	4,698.10	10.43	1.59	-154.22	-5,222.53	-2,522.79	5,800.08	5,788.06	12.02	482.617	
4,800.00	4,800.00	4,779.81	4,779.35	10.65	1.58	-154.23	-5,222.67	-2,521.49	5,799.54	5,787.31	12.23	474.093	

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: 107H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Plan #1

Local Co-ordinate Reference: Well 107H
TVD Reference: 3726.7 @ 3750.20usft (Original Well Elev)
MD Reference: 3726.7 @ 3750.20usft (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 - 51H - 51H OH - 51H OH												Offset Site Error: 0.00 usft	
Survey Program: 100- VES GyroFlex V2, 10532-LEAM MWD+HDGM, 15636-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
4,900.00	4,900.00	4,914.17	4,913.68	10.87	1.57	-154.26	-5,223.07	-2,518.72	5,798.93	5,786.48	12.44	466.080	
5,000.00	5,000.00	5,003.50	5,002.98	11.10	1.56	-154.27	-5,223.22	-2,516.63	5,798.06	5,785.40	12.66	458.087	
5,100.00	5,100.00	5,102.99	5,102.44	11.32	1.55	-154.30	-5,223.51	-2,514.26	5,797.29	5,784.42	12.87	450.400	
5,172.96	5,172.95	5,195.34	5,194.76	11.48	1.54	115.70	-5,223.83	-2,512.01	5,797.01	5,784.27	12.73	455.268	
5,200.00	5,199.98	5,222.80	5,222.22	11.54	1.54	115.70	-5,223.81	-2,511.36	5,797.06	5,784.27	12.79	453.127	
5,300.00	5,299.92	5,319.36	5,318.75	11.73	1.53	115.71	-5,223.54	-2,509.06	5,797.48	5,784.48	13.00	445.825	
5,400.00	5,399.86	5,417.32	5,416.68	11.93	1.53	115.72	-5,223.81	-2,506.67	5,798.00	5,784.79	13.22	438.715	
5,500.00	5,499.80	5,530.53	5,529.86	12.13	1.52	115.73	-5,223.41	-2,503.88	5,798.27	5,784.84	13.43	431.700	
5,600.00	5,599.74	5,616.18	5,615.49	12.34	1.52	115.74	-5,223.26	-2,502.09	5,798.72	5,785.07	13.64	424.992	
5,700.00	5,699.68	5,743.42	5,742.70	12.54	1.51	115.76	-5,222.88	-2,499.17	5,798.95	5,785.09	13.86	418.263	
5,766.74	5,766.37	5,812.89	5,812.14	12.67	1.51	115.76	-5,222.51	-2,497.48	5,798.94	5,784.93	14.01	413.914	
5,800.00	5,799.61	5,838.44	5,837.68	12.74	1.51	115.77	-5,222.39	-2,496.86	5,798.96	5,784.88	14.08	411.820	
5,900.00	5,899.55	5,919.91	5,919.13	12.95	1.51	115.77	-5,222.26	-2,494.93	5,799.29	5,784.99	14.30	405.624	
6,000.00	5,899.49	6,016.89	6,015.89	13.15	1.51	115.79	-5,222.14	-2,492.80	5,799.74	5,785.23	14.52	399.542	
6,100.00	6,099.43	6,100.00	6,099.18	13.36	1.51	115.80	-5,222.21	-2,491.00	5,800.40	5,785.67	14.73	393.685	
6,200.00	6,199.37	6,211.76	6,210.91	13.57	1.51	115.81	-5,222.39	-2,488.48	5,801.08	5,786.12	14.96	387.886	
6,300.00	6,299.31	6,306.64	6,305.77	13.78	1.51	115.82	-5,222.45	-2,486.43	5,801.72	5,786.54	15.18	382.284	
6,400.00	6,399.25	6,406.04	6,405.14	13.98	1.51	115.83	-5,222.62	-2,484.19	5,802.40	5,787.01	15.40	376.817	
6,500.00	6,499.19	6,506.02	6,505.09	14.19	1.51	115.84	-5,222.86	-2,481.80	5,803.10	5,787.48	15.62	371.490	
6,600.00	6,599.16	6,624.54	6,623.58	14.40	1.52	115.83	-5,222.95	-2,478.98	5,803.09	5,787.25	15.84	366.380	
6,633.33	6,632.49	6,669.02	6,668.05	14.46	1.52	-154.18	-5,222.82	-2,477.98	5,802.74	5,786.83	15.91	364.800	
6,700.00	6,699.16	6,734.82	6,733.83	14.59	1.52	-154.19	-5,222.47	-2,476.59	5,801.80	5,785.75	16.05	361.494	
6,800.00	6,799.16	6,818.09	6,817.08	14.81	1.53	-154.20	-5,222.25	-2,474.86	5,800.85	5,784.37	16.29	356.191	
6,900.00	6,899.16	6,920.84	6,919.82	15.04	1.54	-154.22	-5,222.03	-2,472.83	5,799.61	5,783.08	16.52	350.984	
7,000.00	6,999.16	7,031.75	7,030.71	15.26	1.55	-154.23	-5,221.41	-2,471.10	5,798.42	5,781.66	16.77	345.859	
7,100.00	7,099.16	7,135.10	7,134.04	15.48	1.56	-154.24	-5,220.72	-2,469.36	5,797.09	5,780.08	17.01	340.881	
7,200.00	7,199.16	7,232.97	7,231.89	15.71	1.57	-154.26	-5,220.19	-2,467.57	5,795.81	5,778.56	17.25	336.068	
7,300.00	7,299.16	7,326.54	7,325.44	15.93	1.58	-154.27	-5,219.73	-2,465.69	5,794.49	5,777.01	17.48	331.403	
7,400.00	7,399.16	7,400.00	7,398.89	16.15	1.59	-154.29	-5,219.72	-2,464.16	5,793.57	5,775.85	17.72	326.974	
7,500.00	7,499.16	7,519.57	7,518.43	16.38	1.60	-154.31	-5,219.79	-2,461.53	5,792.66	5,774.70	17.96	322.549	
7,600.00	7,599.16	7,600.00	7,598.84	16.60	1.61	-154.33	-5,219.84	-2,459.66	5,791.73	5,773.54	18.19	318.326	
7,700.00	7,699.16	7,689.82	7,688.63	16.82	1.62	-154.35	-5,220.18	-2,457.55	5,791.05	5,772.62	18.43	314.229	
7,800.00	7,799.16	7,775.63	7,774.41	17.05	1.62	-154.37	-5,220.73	-2,455.57	5,790.63	5,771.96	18.66	310.274	
7,900.00	7,899.16	7,876.71	7,875.47	17.27	1.63	-154.39	-5,221.52	-2,453.27	5,790.35	5,771.46	18.90	306.405	
8,000.00	7,999.16	7,978.42	7,977.14	17.49	1.64	-154.42	-5,222.28	-2,450.88	5,790.01	5,770.88	19.13	302.623	
8,100.00	8,099.16	8,085.55	8,084.25	17.72	1.66	-154.44	-5,222.94	-2,448.51	5,789.61	5,770.24	19.37	298.914	
8,200.00	8,199.16	8,174.92	8,173.60	17.94	1.67	-154.46	-5,223.38	-2,446.76	5,789.21	5,769.61	19.60	295.327	
8,300.00	8,299.16	8,263.98	8,262.64	18.17	1.68	-154.47	-5,223.92	-2,444.25	5,789.02	5,769.19	19.84	291.847	
8,356.62	8,355.78	8,314.93	8,313.58	18.29	1.68	-154.48	-5,224.31	-2,444.36	5,789.00	5,769.03	19.97	289.922	
8,400.00	8,399.16	8,353.78	8,352.43	18.39	1.69	-154.49	-5,224.84	-2,443.70	5,789.01	5,768.95	20.07	288.471	
8,500.00	8,499.16	8,452.90	8,451.53	18.61	1.70	-154.51	-5,225.55	-2,442.09	5,789.14	5,768.84	20.30	285.175	
8,600.00	8,599.16	8,558.27	8,556.88	18.84	1.71	-154.53	-5,226.44	-2,440.32	5,789.17	5,768.84	20.53	281.938	
8,636.82	8,635.98	8,595.96	8,594.57	18.92	1.72	-154.54	-5,226.75	-2,439.65	5,789.17	5,768.55	20.62	280.764	
8,700.00	8,699.16	8,647.89	8,646.49	19.06	1.72	-154.54	-5,227.21	-2,438.77	5,789.22	5,768.46	20.76	278.799	
8,800.00	8,799.16	8,734.36	8,732.94	19.28	1.73	-154.56	-5,228.12	-2,437.54	5,789.55	5,768.56	21.00	275.758	
8,900.00	8,899.16	8,824.92	8,823.49	19.51	1.74	-154.57	-5,229.14	-2,436.35	5,790.01	5,768.79	21.22	272.804	
9,000.00	8,999.16	8,903.89	8,902.25	19.73	1.75	-154.59	-5,230.16	-2,435.63	5,790.78	5,769.33	21.45	269.951	
9,100.00	9,099.16	9,000.00	8,998.55	19.96	1.76	-154.60	-5,231.42	-2,434.94	5,791.65	5,769.98	21.68	267.169	
9,200.00	9,199.16	9,085.84	9,084.38	20.18	1.76	-154.61	-5,232.61	-2,434.46	5,792.69	5,770.79	21.90	264.463	
9,300.00	9,299.16	9,167.95	9,166.48	20.40	1.77	-154.61	-5,233.95	-2,434.35	5,794.11	5,771.98	22.13	261.843	
9,400.00	9,399.16	9,266.95	9,265.46	20.63	1.77	-154.62	-5,235.65	-2,434.52	5,795.73	5,773.38	22.35	259.287	
9,500.00	9,499.16	9,400.00	9,398.50	20.85	1.78	-154.63	-5,237.54	-2,434.22	5,796.88	5,774.30	22.58	256.726	

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 107H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3726.7 @ 3750.20usft (Original Well Elev)
Reference Site:	Thistle Unit	MD Reference:	3726.7 @ 3750.20usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	107H	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

Thistle Unit - 51H - 51H OH - 51H OH													Offset Site Error:	0.00 usft
Survey Program: 100- VES GyroFlex V2, 10532-LEAM MWD+HDGM, 15636-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)						
9,523.37	9,522.53	9,427.84	9,426.34	20.90	1.78	-154.63	-5,237.88	-2,434.00	5,797.05	5,774.42	22.63	256.128		
9,525.00	9,524.16	9,428.81	9,427.30	20.91	1.78	25.79	-5,237.89	-2,434.00	5,797.06	5,774.43	22.64	256.071		
9,550.00	9,549.15	9,443.80	9,442.09	20.95	1.78	25.61	-5,238.10	-2,433.91	5,796.66	5,773.77	22.88	253.310		
9,575.00	9,574.06	9,458.36	9,456.85	20.99	1.79	25.90	-5,238.33	-2,433.84	5,795.12	5,771.76	23.36	248.110		
9,600.00	9,598.83	9,473.05	9,471.54	21.04	1.79	26.04	-5,238.58	-2,433.79	5,792.44	5,768.51	23.94	241.988		
9,625.00	9,623.40	9,500.00	9,498.48	21.08	1.79	26.27	-5,239.09	-2,433.75	5,788.67	5,764.11	24.56	235.888		
9,650.00	9,647.68	9,500.00	9,498.48	21.13	1.79	26.54	-5,239.09	-2,433.75	5,783.75	5,758.58	25.16	229.842		
9,675.00	9,671.63	9,524.04	9,522.52	21.17	1.79	26.90	-5,239.59	-2,433.72	5,777.72	5,751.95	25.77	224.200		
9,700.00	9,695.16	9,544.69	9,543.17	21.22	1.79	27.34	-5,240.03	-2,433.68	5,770.59	5,744.24	26.35	219.012		
9,725.00	9,718.22	9,564.97	9,563.44	21.26	1.79	27.86	-5,240.50	-2,433.62	5,762.36	5,735.47	26.89	214.291		
9,750.00	9,740.75	9,584.82	9,583.29	21.31	1.80	28.47	-5,240.96	-2,433.55	5,753.06	5,725.66	27.40	209.934		
9,775.00	9,762.67	9,606.29	9,604.75	21.35	1.80	29.18	-5,241.49	-2,433.46	5,742.72	5,714.84	27.88	205.980		
9,800.00	9,783.94	9,634.51	9,632.95	21.40	1.80	30.01	-5,242.18	-2,433.30	5,731.35	5,703.01	28.33	202.289		
9,825.00	9,804.50	9,661.79	9,660.23	21.44	1.80	30.97	-5,242.82	-2,433.13	5,718.95	5,690.21	28.75	198.944		
9,850.00	9,824.28	9,686.07	9,686.51	21.49	1.81	32.05	-5,243.42	-2,432.93	5,705.58	5,676.46	29.12	195.920		
9,875.00	9,843.23	9,711.24	9,709.67	21.54	1.81	33.28	-5,243.93	-2,432.75	5,691.28	5,661.82	29.45	193.225		
9,900.00	9,861.30	9,731.62	9,730.04	21.59	1.81	34.66	-5,244.37	-2,432.58	5,676.09	5,646.35	29.74	190.830		
9,925.00	9,878.45	9,750.97	9,749.39	21.65	1.81	36.21	-5,244.78	-2,432.43	5,660.06	5,630.07	30.00	188.694		
9,950.00	9,894.62	9,769.25	9,767.66	21.72	1.82	37.97	-5,245.15	-2,432.29	5,643.25	5,613.04	30.21	186.799		
9,975.00	9,909.77	9,786.40	9,784.81	21.80	1.82	39.95	-5,245.50	-2,432.16	5,625.70	5,595.31	30.39	185.143		
10,000.00	9,923.85	9,800.00	9,798.40	21.88	1.82	42.16	-5,245.77	-2,432.07	5,607.45	5,576.94	30.51	183.766		
10,025.00	9,936.84	9,814.01	9,812.41	21.96	1.82	44.66	-5,246.05	-2,431.97	5,588.57	5,557.97	30.60	182.635		
10,050.00	9,948.69	9,825.06	9,823.46	22.06	1.82	47.45	-5,246.27	-2,431.89	5,569.11	5,538.49	30.62	181.853		
10,075.00	9,959.36	9,835.09	9,833.49	22.16	1.82	50.58	-5,246.47	-2,431.82	5,549.13	5,518.56	30.58	181.479		
10,100.00	9,968.87	9,844.05	9,842.45	22.27	1.83	54.07	-5,246.65	-2,431.76	5,528.69	5,496.25	30.44	181.648		
10,125.00	9,977.13	9,851.93	9,850.32	22.39	1.83	57.95	-5,246.81	-2,431.71	5,507.83	5,477.66	30.17	182.546		
10,150.00	9,984.15	9,858.70	9,857.09	22.51	1.83	62.22	-5,246.95	-2,431.66	5,486.62	5,456.86	29.75	184.410		
10,175.00	9,989.90	9,864.34	9,862.72	22.64	1.83	66.89	-5,247.07	-2,431.63	5,465.11	5,435.97	29.14	187.526		
10,200.00	9,994.37	9,868.83	9,867.22	22.78	1.83	71.92	-5,247.16	-2,431.60	5,443.37	5,415.05	28.32	192.198		
10,225.00	9,997.55	9,872.16	9,870.55	22.93	1.83	77.26	-5,247.23	-2,431.58	5,421.46	5,394.17	27.29	198.650		
10,250.00	9,999.43	9,874.32	9,872.71	23.08	1.83	82.81	-5,247.28	-2,431.56	5,399.43	5,373.31	26.13	206.652		
10,273.37	10,000.00	9,875.28	9,873.67	23.23	1.83	88.09	-5,247.30	-2,431.56	5,378.79	5,353.57	25.22	213.279		
10,300.00	10,000.00	9,875.79	9,874.17	23.41	1.83	88.10	-5,247.31	-2,431.55	5,355.29	5,329.89	25.40	210.879		
10,400.00	10,000.00	9,877.68	9,876.07	24.15	1.83	88.14	-5,247.35	-2,431.54	5,267.27	5,241.14	26.13	201.573		
10,500.00	10,000.00	9,879.59	9,877.97	25.00	1.83	88.19	-5,247.39	-2,431.53	5,179.69	5,152.71	26.98	191.990		
10,600.00	10,000.00	9,881.49	9,879.88	25.96	1.83	88.23	-5,247.43	-2,431.52	5,092.57	5,064.64	27.93	182.344		
10,700.00	10,000.00	9,883.41	9,881.79	27.00	1.83	88.27	-5,247.47	-2,431.51	5,005.93	4,976.96	28.97	172.807		
10,800.00	10,000.00	9,885.33	9,883.71	28.13	1.83	88.32	-5,247.51	-2,431.50	4,919.79	4,889.70	30.09	163.509		
10,900.00	10,000.00	9,887.25	9,885.64	29.32	1.83	88.36	-5,247.55	-2,431.48	4,834.18	4,802.90	31.28	154.544 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: 107H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Plan #1

Local Co-ordinate Reference: Well 107H
TVD Reference: 3726.7 @ 3750.20usft (Original Well Elev)
MD Reference: 3726.7 @ 3750.20usft (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		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-167.94	-5,213.08	-1,113.78	5,330.86				
100.00	100.00	118.38	118.38	0.09	0.10	-167.94	-5,212.57	-1,113.20	5,330.40	5,330.23	0.17	N/A	
200.00	200.00	219.25	219.24	0.31	0.20	-167.96	-5,211.69	-1,111.97	5,329.29	5,328.79	0.50	N/A	
300.00	300.00	313.21	313.19	0.54	0.27	-167.97	-5,210.98	-1,110.86	5,328.29	5,327.50	0.79	8,733.805	
400.00	400.00	420.31	420.28	0.76	0.33	-167.98	-5,210.11	-1,109.81	5,327.27	5,326.19	1.08	4,953.111	
500.00	500.00	501.13	501.09	0.99	0.37	-167.99	-5,209.49	-1,108.54	5,326.27	5,324.93	1.34	3,972.252	
600.00	600.00	595.09	595.04	1.21	0.42	-168.00	-5,209.00	-1,107.65	5,325.56	5,323.95	1.81	3,310.526	
700.00	700.00	666.67	666.61	1.43	0.45	-168.00	-5,208.88	-1,107.23	5,325.26	5,323.40	1.87	2,855.239	
800.00	800.00	788.51	788.45	1.66	0.51	-168.01	-5,208.80	-1,106.45	5,325.08	5,322.94	2.14	2,485.987	
900.00	900.00	882.26	882.20	1.88	0.55	-168.01	-5,208.53	-1,105.81	5,324.66	5,322.25	2.40	2,214.769	
1,000.00	1,000.00	977.28	977.22	2.11	0.59	-168.02	-5,208.30	-1,105.38	5,324.33	5,321.67	2.66	1,998.688	
1,100.00	1,100.00	1,069.32	1,069.28	2.33	0.61	-168.01	-5,208.01	-1,105.90	5,324.13	5,321.22	2.91	1,829.803	
1,200.00	1,200.00	1,178.17	1,178.10	2.56	0.63	-168.00	-5,207.65	-1,106.58	5,323.94	5,320.79	3.15	1,690.511	
1,300.00	1,300.00	1,289.08	1,289.01	2.78	0.66	-168.00	-5,207.22	-1,106.82	5,323.62	5,320.22	3.39	1,569.070	
1,400.00	1,400.00	1,400.59	1,400.52	3.01	0.68	-167.99	-5,206.28	-1,107.56	5,322.92	5,319.29	3.64	1,463.847	
1,500.00	1,500.00	1,502.31	1,502.22	3.23	0.71	-167.97	-5,205.25	-1,108.96	5,322.22	5,318.34	3.88	1,372.453	
1,600.00	1,600.00	1,596.60	1,596.49	3.46	0.73	-167.96	-5,204.24	-1,110.38	5,321.49	5,317.37	4.12	1,291.951	
1,700.00	1,700.00	1,699.07	1,698.95	3.68	0.75	-167.94	-5,203.27	-1,111.93	5,320.87	5,316.51	4.36	1,219.694	
1,800.00	1,800.00	1,800.74	1,800.61	3.91	0.77	-167.92	-5,202.27	-1,113.12	5,320.16	5,315.55	4.61	1,154.829	
1,900.00	1,900.00	1,886.23	1,886.08	4.13	0.79	-167.91	-5,201.49	-1,114.29	5,319.56	5,314.71	4.85	1,097.038	
2,000.00	2,000.00	1,987.86	1,987.70	4.36	0.82	-167.89	-5,200.69	-1,116.05	5,319.15	5,314.05	5.10	1,043.929	
2,100.00	2,100.00	2,097.05	2,096.88	4.58	0.84	-167.87	-5,199.70	-1,117.72	5,318.59	5,313.24	5.34	995.247	
2,200.00	2,200.00	2,174.07	2,173.89	4.81	0.86	-167.86	-5,199.14	-1,118.75	5,318.15	5,312.57	5.59	952.051	
2,300.00	2,300.00	2,263.92	2,263.71	5.03	0.89	-167.84	-5,198.52	-1,120.38	5,317.92	5,312.09	5.84	911.068	
2,400.00	2,400.00	2,380.33	2,380.11	5.26	0.91	-167.82	-5,197.84	-1,122.01	5,317.59	5,311.50	6.09	873.822	
2,500.00	2,500.00	2,484.93	2,484.70	5.48	0.94	-167.80	-5,197.13	-1,123.49	5,317.23	5,310.89	6.34	839.164	
2,600.00	2,600.00	2,572.36	2,572.12	5.71	0.96	-167.79	-5,196.64	-1,124.55	5,316.83	5,310.35	6.58	807.622	
2,700.00	2,700.00	2,674.20	2,673.94	5.93	0.99	-167.77	-5,196.12	-1,126.01	5,316.74	5,309.90	6.84	777.856	
2,800.00	2,800.00	2,786.28	2,786.00	6.15	1.02	-167.75	-5,195.44	-1,127.70	5,316.47	5,309.38	7.09	749.918	
2,900.00	2,900.00	2,903.57	2,903.29	6.38	1.06	-167.74	-5,194.44	-1,128.43	5,315.75	5,308.41	7.34	724.021	
3,000.00	3,000.00	3,005.76	3,005.48	6.60	1.09	-167.74	-5,193.58	-1,128.71	5,314.99	5,307.40	7.59	700.490	
3,100.00	3,100.00	3,135.05	3,134.77	6.83	1.12	-167.74	-5,192.30	-1,128.24	5,313.96	5,306.13	7.83	678.607	
3,200.00	3,200.00	3,233.42	3,233.13	7.05	1.15	-167.75	-5,191.14	-1,127.41	5,312.62	5,304.56	8.06	658.739	
3,300.00	3,300.00	3,341.20	3,340.89	7.28	1.17	-167.75	-5,189.80	-1,126.48	5,311.23	5,302.93	8.30	639.906	
3,400.00	3,400.00	3,448.53	3,448.21	7.50	1.20	-167.76	-5,188.30	-1,125.43	5,309.65	5,301.11	8.54	622.045	
3,500.00	3,500.00	3,552.17	3,551.83	7.73	1.23	-167.76	-5,186.72	-1,124.81	5,308.04	5,299.26	8.77	605.059	
3,600.00	3,600.00	3,643.99	3,643.64	7.95	1.25	-167.77	-5,185.27	-1,124.11	5,306.34	5,297.33	9.01	589.086	
3,700.00	3,700.00	3,720.74	3,720.38	8.18	1.27	-167.77	-5,184.38	-1,123.54	5,305.04	5,295.80	9.24	574.085	
3,800.00	3,800.00	3,801.89	3,801.53	8.40	1.29	-167.77	-5,183.71	-1,123.14	5,304.13	5,294.66	9.47	559.837	
3,900.00	3,900.00	3,888.51	3,888.15	8.63	1.32	-167.78	-5,183.22	-1,123.01	5,303.54	5,293.83	9.71	546.188	
4,000.00	4,000.00	4,000.11	3,999.74	8.85	1.35	-167.78	-5,182.48	-1,122.76	5,302.84	5,292.89	9.95	533.006	
4,100.00	4,100.00	4,071.61	4,071.24	9.08	1.37	-167.78	-5,182.31	-1,121.98	5,302.38	5,292.20	10.18	520.887	
4,144.26	4,144.26	4,107.15	4,106.76	9.18	1.37	-167.79	-5,182.44	-1,121.17	5,302.33	5,292.05	10.28	515.747	
4,200.00	4,200.00	4,148.07	4,147.65	9.30	1.37	-167.81	-5,182.83	-1,119.61	5,302.41	5,292.00	10.41	509.431	
4,300.00	4,300.00	4,259.53	4,258.86	9.53	1.38	-167.89	-5,184.64	-1,112.41	5,302.64	5,292.00	10.64	498.297	
4,400.00	4,400.00	4,334.80	4,333.89	9.75	1.38	-167.96	-5,186.11	-1,108.56	5,302.92	5,292.05	10.87	487.778	
4,500.00	4,500.00	4,419.37	4,418.21	9.98	1.38	-168.03	-5,188.05	-1,100.36	5,303.84	5,292.53	11.10	477.647	
4,600.00	4,600.00	4,514.78	4,513.32	10.20	1.39	-168.11	-5,190.43	-1,093.23	5,304.54	5,293.20	11.34	467.905	
4,700.00	4,700.00	4,587.81	4,586.11	10.43	1.40	-168.17	-5,192.41	-1,087.69	5,305.66	5,294.09	11.57	458.608	
4,800.00	4,800.00	4,657.20	4,655.28	10.65	1.40	-168.23	-5,194.73	-1,082.62	5,307.43	5,295.63	11.80	449.730	
4,900.00	4,900.00	4,795.96	4,793.72	10.87	1.41	-168.32	-5,199.20	-1,074.36	5,309.49	5,297.45	12.04	440.898	
5,000.00	5,000.00	4,991.89	4,989.38	11.10	1.43	-168.43	-5,202.03	-1,064.55	5,309.91	5,297.61	12.29	431.906	

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: 107H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Plan #1

Local Co-ordinate Reference: Well 107H
TVD Reference: 3726.7 @ 3750.20usft (Original Well Elev)
MD Reference: 3726.7 @ 3750.20usft (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			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N-S (usft)	+E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,100.00	5,100.00	5,094.40	5,091.76	11.32	1.44	-188.49	-5,202.43	-1,059.35	5,309.27	5,296.74	12.53	423.558	
5,153.18	5,153.17	5,138.01	5,135.31	11.44	1.45	101.49	-5,202.70	-1,057.02	5,309.12	5,296.24	12.88	412.088	
5,200.00	5,199.98	5,175.26	5,172.50	11.54	1.46	101.48	-5,202.99	-1,055.04	5,309.24	5,296.25	12.99	408.815	
5,300.00	5,299.92	5,278.96	5,276.08	11.73	1.47	101.46	-5,203.93	-1,049.59	5,309.78	5,296.58	13.20	402.329	
5,400.00	5,399.86	5,387.05	5,384.00	11.93	1.49	101.44	-5,204.63	-1,043.98	5,310.07	5,296.66	13.41	395.957	
5,500.00	5,499.80	5,467.79	5,464.83	12.13	1.50	101.42	-5,205.21	-1,039.88	5,310.47	5,296.85	13.62	389.870	
5,600.00	5,599.74	5,573.31	5,570.01	12.34	1.52	101.40	-5,206.25	-1,034.50	5,311.12	5,297.29	13.84	383.887	
5,700.00	5,699.68	5,690.84	5,687.36	12.54	1.54	101.38	-5,207.09	-1,028.15	5,311.44	5,297.39	14.05	377.968	
5,800.00	5,799.61	5,778.53	5,774.93	12.74	1.56	101.36	-5,207.72	-1,023.35	5,311.75	5,297.48	14.27	372.296	
5,900.00	5,899.55	5,856.85	5,853.12	12.95	1.58	101.34	-5,208.56	-1,019.08	5,312.41	5,297.93	14.48	366.841	
6,000.00	5,999.49	5,995.41	5,991.48	13.15	1.60	101.31	-5,209.60	-1,011.84	5,312.77	5,298.06	14.70	361.306	
6,100.00	6,099.43	6,116.75	6,112.69	13.36	1.63	101.29	-5,209.89	-1,006.16	5,312.79	5,297.86	14.93	355.903	
6,200.00	6,199.37	6,202.81	6,198.67	13.57	1.65	101.29	-5,209.85	-1,002.35	5,312.57	5,297.42	15.15	350.728	
6,202.13	6,201.50	6,204.43	6,200.28	13.57	1.65	101.29	-5,209.85	-1,002.28	5,312.57	5,297.42	15.15	350.820	
6,300.00	6,299.31	6,294.77	6,290.54	13.78	1.67	101.28	-5,210.13	-998.34	5,312.69	5,297.33	15.37	345.703	
6,400.00	6,399.25	6,430.04	6,425.69	13.98	1.71	101.26	-5,210.16	-992.52	5,312.57	5,296.97	15.60	340.639	
6,500.00	6,499.19	6,531.31	6,526.85	14.19	1.73	101.26	-5,209.80	-988.03	5,312.04	5,296.22	15.82	335.750	
6,600.00	6,599.16	6,531.41	6,526.85	14.40	1.76	101.22	-5,209.39	-983.54	5,311.20	5,295.16	16.04	331.160	
6,633.33	6,632.49	6,658.88	6,654.29	14.46	1.77	-168.80	-5,209.32	-982.28	5,310.83	5,294.73	16.11	329.744	
6,700.00	6,699.16	6,724.84	6,719.97	14.59	1.79	-168.83	-5,209.25	-979.16	5,310.15	5,293.90	16.25	326.803	
6,800.00	6,799.16	6,843.45	6,838.65	14.81	1.82	-168.89	-5,208.67	-973.35	5,308.70	5,292.21	16.49	321.929	
6,900.00	6,899.16	6,963.08	6,958.14	15.04	1.85	-168.95	-5,207.96	-967.78	5,307.24	5,290.51	16.73	317.170	
7,000.00	6,999.16	7,052.37	7,047.35	15.26	1.88	-168.98	-5,207.01	-964.13	5,305.44	5,288.47	16.97	312.603	
7,100.00	7,099.16	7,133.11	7,128.02	15.48	1.90	-169.02	-5,206.50	-960.76	5,304.01	5,286.80	17.21	308.228	
7,200.00	7,199.16	7,220.82	7,215.66	15.71	1.93	-169.06	-5,206.21	-957.15	5,302.90	5,285.46	17.44	303.987	
7,300.00	7,299.16	7,324.11	7,318.87	15.93	1.96	-169.10	-5,205.96	-953.00	5,301.90	5,284.22	17.68	299.833	
7,400.00	7,399.16	7,457.41	7,452.04	16.15	2.00	-169.16	-5,205.22	-947.33	5,300.57	5,282.64	17.93	295.673	
7,500.00	7,499.16	7,548.13	7,542.68	16.38	2.03	-169.20	-5,204.26	-943.53	5,298.76	5,280.59	18.17	291.677	
7,600.00	7,599.16	7,642.09	7,636.55	16.60	2.06	-169.24	-5,203.62	-939.58	5,297.30	5,278.90	18.41	287.818	
7,700.00	7,699.16	7,712.42	7,706.82	16.82	2.08	-169.27	-5,203.51	-936.73	5,296.32	5,277.69	18.64	284.166	
7,800.00	7,799.16	7,816.71	7,811.04	17.05	2.11	-169.31	-5,203.32	-932.86	5,295.46	5,276.59	18.88	280.537	
7,900.00	7,899.16	7,903.20	7,897.47	17.27	2.14	-169.34	-5,203.17	-929.79	5,294.83	5,275.52	19.11	277.042	
8,000.00	7,999.16	8,014.05	8,008.25	17.49	2.17	-169.39	-5,203.12	-925.70	5,293.92	5,274.57	19.35	273.595	
8,100.00	8,099.16	8,102.89	8,097.02	17.72	2.20	-169.42	-5,203.04	-922.35	5,293.13	5,273.55	19.58	270.269	
8,200.00	8,199.16	8,193.87	8,187.95	17.94	2.23	-169.46	-5,203.12	-919.07	5,292.55	5,272.74	19.82	267.039	
8,300.00	8,299.16	8,299.81	8,293.83	18.17	2.26	-169.49	-5,203.08	-915.73	5,291.94	5,271.89	20.06	263.852	
8,400.00	8,399.16	8,393.77	8,387.76	18.39	2.29	-169.52	-5,202.98	-913.21	5,291.35	5,271.06	20.29	260.759	
8,500.00	8,499.16	8,471.58	8,465.54	18.61	2.31	-169.54	-5,203.15	-911.24	5,291.10	5,270.57	20.52	257.804	
8,600.00	8,599.16	8,572.74	8,566.67	18.84	2.34	-169.57	-5,203.57	-908.74	5,291.05	5,270.30	20.76	254.908	
8,648.18	8,647.34	8,615.92	8,609.84	18.94	2.35	-169.58	-5,203.72	-907.78	5,291.02	5,270.16	20.87	253.546	
8,700.00	8,699.16	8,660.54	8,654.45	19.06	2.37	-169.59	-5,203.93	-906.79	5,291.06	5,270.07	20.99	252.104	
8,800.00	8,799.16	8,756.60	8,750.49	19.28	2.39	-169.61	-5,204.47	-904.83	5,291.25	5,270.03	21.22	249.377	
8,900.00	8,899.16	8,832.15	8,826.02	19.51	2.41	-169.63	-5,205.03	-903.48	5,291.66	5,270.22	21.44	246.760	
9,000.00	8,999.16	8,942.38	8,936.23	19.73	2.44	-169.65	-5,206.18	-901.59	5,292.40	5,270.73	21.67	244.214	
9,100.00	9,099.16	9,036.65	9,030.48	19.96	2.46	-169.66	-5,206.92	-900.12	5,292.89	5,270.99	21.90	241.710	
9,200.00	9,199.16	9,117.54	9,111.36	20.18	2.47	-169.68	-5,207.78	-898.82	5,293.64	5,271.52	22.12	239.289	
9,300.00	9,299.16	9,212.30	9,206.11	20.40	2.49	-169.70	-5,209.04	-897.47	5,294.69	5,272.35	22.35	236.951	
9,400.00	9,399.16	9,305.40	9,299.19	20.63	2.50	-169.71	-5,210.23	-896.56	5,295.78	5,273.22	22.57	234.687	
9,500.00	9,499.16	9,399.40	9,393.18	20.85	2.51	-169.71	-5,211.48	-896.24	5,297.03	5,274.25	22.78	232.502	
9,523.37	9,522.53	9,421.85	9,415.63	20.90	2.51	-169.72	-5,211.79	-896.20	5,297.34	5,274.50	22.83	232.000	
9,525.00	9,524.16	9,423.41	9,417.19	20.91	2.51	10.71	-5,211.81	-896.20	5,297.36	5,274.52	22.83	232.004	
9,550.00	9,549.15	9,427.33	9,421.11	20.95	2.51	10.72	-5,211.86	-896.20	5,297.00	5,273.92	23.08	229.503	

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	Local Co-ordinate Reference:	Well 107H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3726.7 @ 3750.20usft (Original Well Elev)
Reference Site:	Thistle Unit	MD Reference:	3726.7 @ 3750.20usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	107H	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	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore Centre	Between	Between	Minimum	Separation	Warning
Depth	Depth	Depth	Depth	Reference	Offset	Toolface	+N-S	Centres	Ellipses	Separation	Factor	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)		
9,575.00	9,574.06	9,454.53	9,448.31	20.99	2.51	10.75	-5,212.27	-896.19	5,295.36	5,271.78	23.57	224.625
9,600.00	9,598.83	9,469.27	9,463.04	21.04	2.51	10.82	-5,212.54	-896.20	5,292.50	5,268.32	24.19	218.826
9,625.00	9,623.40	9,483.90	9,477.67	21.08	2.51	10.92	-5,212.82	-896.23	5,288.43	5,263.59	24.84	212.920
9,650.00	9,647.68	9,498.39	9,492.16	21.13	2.51	11.05	-5,213.13	-896.27	5,283.13	5,257.64	25.49	207.260
9,675.00	9,671.83	9,521.29	9,515.05	21.17	2.51	11.22	-5,213.67	-896.36	5,276.65	5,250.51	26.13	201.901
9,700.00	9,695.16	9,521.29	9,515.05	21.22	2.51	11.41	-5,213.67	-896.36	5,268.96	5,242.24	26.72	197.190
9,725.00	9,718.22	9,540.76	9,534.51	21.26	2.50	11.66	-5,214.17	-896.47	5,260.10	5,232.81	27.30	192.710
9,750.00	9,740.75	9,554.39	9,548.14	21.31	2.50	11.94	-5,214.55	-896.57	5,250.11	5,222.28	27.82	188.701
9,775.00	9,762.67	9,567.71	9,561.46	21.35	2.50	12.27	-5,214.94	-896.69	5,238.99	5,210.88	28.31	185.083
9,800.00	9,783.94	9,580.68	9,574.42	21.40	2.50	12.65	-5,215.34	-896.82	5,226.78	5,198.03	28.75	181.828
9,825.00	9,804.50	9,593.26	9,586.99	21.44	2.50	13.09	-5,215.74	-896.97	5,213.51	5,184.37	29.14	178.911
9,850.00	9,824.28	9,615.25	9,608.97	21.49	2.50	13.62	-5,216.49	-897.27	5,199.22	5,169.71	29.52	176.145
9,875.00	9,843.23	9,615.25	9,608.97	21.54	2.50	14.18	-5,216.49	-897.27	5,183.91	5,154.12	29.79	174.010
9,900.00	9,861.30	9,631.18	9,624.89	21.59	2.50	14.86	-5,217.06	-897.50	5,167.86	5,137.59	30.07	171.857
9,925.00	9,878.45	9,644.21	9,637.90	21.65	2.49	15.65	-5,217.54	-897.70	5,150.49	5,120.18	30.30	169.965
9,950.00	9,894.62	9,656.58	9,650.25	21.72	2.49	16.56	-5,218.01	-897.88	5,132.44	5,101.94	30.50	168.264
9,975.00	9,909.77	9,668.22	9,661.89	21.80	2.49	17.63	-5,218.46	-898.05	5,113.56	5,082.89	30.67	166.720
10,000.00	9,923.85	9,679.15	9,672.81	21.88	2.49	18.88	-5,218.89	-898.20	5,093.90	5,063.09	30.82	165.294
10,025.00	9,936.84	9,689.31	9,682.96	21.96	2.49	20.35	-5,219.30	-898.35	5,073.52	5,042.57	30.95	163.943
10,050.00	9,948.69	9,709.21	9,702.84	22.06	2.49	22.19	-5,220.13	-898.64	5,052.48	5,021.37	31.11	162.405
10,075.00	9,959.38	9,709.21	9,702.84	22.16	2.49	24.26	-5,220.13	-898.64	5,030.79	4,999.59	31.20	161.233
10,100.00	9,968.87	9,719.42	9,713.04	22.27	2.49	26.89	-5,220.55	-898.78	5,008.55	4,977.21	31.35	159.775
10,125.00	9,977.13	9,731.55	9,725.16	22.39	2.48	30.18	-5,221.06	-898.94	4,985.81	4,954.29	31.52	158.193
10,150.00	9,984.15	9,742.04	9,735.64	22.51	2.48	34.33	-5,221.49	-899.07	4,962.61	4,930.93	31.68	156.632
10,175.00	9,989.99	9,750.87	9,744.47	22.64	2.48	39.62	-5,221.85	-899.18	4,939.04	4,907.25	31.80	155.328
10,200.00	9,994.37	9,758.02	9,751.61	22.78	2.48	46.43	-5,222.14	-899.26	4,915.16	4,883.42	31.74	154.861
10,225.00	9,997.55	9,763.47	9,757.06	22.93	2.48	55.21	-5,222.36	-899.32	4,891.03	4,859.76	31.26	156.454
10,250.00	9,999.43	9,767.23	9,760.81	23.08	2.48	66.28	-5,222.51	-899.36	4,866.71	4,836.75	29.97	162.405
10,273.37	10,000.00	9,769.19	9,762.77	23.23	2.48	78.57	-5,222.59	-899.39	4,843.88	4,816.15	27.73	174.679
10,300.00	10,000.00	9,770.57	9,764.15	23.41	2.48	78.64	-5,222.64	-899.40	4,817.84	4,789.95	27.89	172.757
10,400.00	10,000.00	9,775.72	9,769.30	24.15	2.48	78.93	-5,222.85	-899.45	4,720.09	4,691.54	28.56	165.290
10,500.00	10,000.00	9,780.83	9,774.40	25.00	2.48	79.22	-5,223.05	-899.51	4,622.44	4,593.10	29.34	157.562
10,600.00	10,000.00	9,785.89	9,779.46	25.96	2.48	79.50	-5,223.25	-899.56	4,524.86	4,494.66	30.22	149.732
10,700.00	10,000.00	9,790.91	9,784.47	27.00	2.48	79.78	-5,223.44	-899.60	4,427.43	4,398.24	31.19	141.934
10,800.00	10,000.00	9,795.87	9,789.43	28.13	2.48	80.06	-5,223.64	-899.65	4,330.09	4,297.84	32.25	134.272
10,900.00	10,000.00	9,800.80	9,794.35	29.32	2.48	80.34	-5,223.83	-899.69	4,232.87	4,199.50	33.38	126.824 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 107H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3726.7 @ 3750.20usft (Original Well Elev)
Reference Site:	Thistle Unit	MD Reference:	3726.7 @ 3750.20usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	107H	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							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N-S (usft)	+E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	166.40	-5,216.82	1,262.55	5,367.48				
100.00	100.00	93.88	93.88	0.09	0.09	166.39	-5,216.61	1,262.73	5,367.30	5,367.12	0.18	N/A	
200.00	200.00	227.05	227.04	0.31	0.28	166.38	-5,215.62	1,263.41	5,366.70	5,366.11	0.59	9,091.872	
300.00	300.00	348.12	348.11	0.54	0.54	166.38	-5,214.12	1,263.33	5,365.47	5,364.40	1.07	4,991.675	
400.00	400.00	440.42	440.40	0.76	0.73	166.38	-5,212.91	1,263.24	5,364.18	5,362.69	1.49	3,597.664	
500.00	500.00	522.73	522.70	0.99	0.89	166.38	-5,212.03	1,263.23	5,363.13	5,361.25	1.88	2,853.151	
600.00	600.00	624.75	624.72	1.21	1.11	166.37	-5,211.09	1,263.37	5,362.27	5,359.96	2.32	2,314.442	
700.00	700.00	714.54	714.50	1.43	1.29	166.37	-5,210.29	1,263.51	5,361.44	5,358.71	2.73	1,964.189	
800.00	800.00	796.57	796.54	1.66	1.48	166.37	-5,209.85	1,263.32	5,360.87	5,357.75	3.12	1,716.145	
900.00	900.00	889.58	889.54	1.88	1.66	166.37	-5,209.69	1,262.85	5,360.58	5,357.04	3.54	1,512.989	
1,000.00	1,000.00	985.20	985.15	2.11	1.86	166.38	-5,209.60	1,262.31	5,360.36	5,356.39	3.97	1,349.997	
1,100.00	1,100.00	1,077.79	1,077.75	2.33	2.06	166.39	-5,209.67	1,261.58	5,360.24	5,355.85	4.39	1,219.995	
1,200.00	1,200.00	1,185.99	1,185.94	2.56	2.29	166.40	-5,209.86	1,260.45	5,360.17	5,355.33	4.85	1,108.056	
1,300.00	1,300.00	1,291.82	1,291.76	2.78	2.51	166.41	-5,209.89	1,259.17	5,359.92	5,354.82	5.29	1,012.749	
1,400.00	1,400.00	1,386.43	1,386.36	3.01	2.62	166.43	-5,209.95	1,257.91	5,359.66	5,354.04	5.63	952.612	
1,500.00	1,500.00	1,482.70	1,482.63	3.23	2.71	166.44	-5,210.09	1,256.71	5,359.51	5,353.56	5.95	900.744	
1,600.00	1,600.00	1,590.47	1,590.39	3.46	2.74	166.45	-5,210.14	1,255.54	5,359.31	5,353.10	6.21	863.530	
1,700.00	1,700.00	1,690.98	1,690.90	3.68	2.79	166.46	-5,210.05	1,254.61	5,359.00	5,352.53	6.48	827.376	
1,800.00	1,800.00	1,787.77	1,787.69	3.91	2.84	166.47	-5,210.01	1,253.72	5,358.75	5,351.99	6.76	793.248	
1,900.00	1,900.00	1,881.50	1,881.41	4.13	2.91	166.48	-5,210.04	1,252.91	5,358.57	5,351.52	7.05	759.971	
1,977.19	1,977.19	1,952.89	1,952.79	4.31	2.98	166.48	-5,210.11	1,252.44	5,358.53	5,351.25	7.28	735.591	
2,000.00	2,000.00	1,973.98	1,973.88	4.36	2.99	166.48	-5,210.14	1,252.33	5,358.54	5,351.18	7.35	728.686	
2,100.00	2,100.00	2,071.57	2,071.48	4.58	3.09	166.49	-5,210.30	1,251.94	5,358.61	5,350.93	7.68	697.950	
2,200.00	2,200.00	2,171.75	2,171.65	4.81	3.20	166.49	-5,210.44	1,251.71	5,358.68	5,350.67	8.01	668.804	
2,300.00	2,300.00	2,270.32	2,270.23	5.03	3.33	166.49	-5,210.54	1,251.62	5,358.76	5,350.40	8.36	640.938	
2,400.00	2,400.00	2,368.41	2,368.32	5.26	3.45	166.49	-5,210.66	1,251.65	5,358.88	5,350.17	8.71	615.011	
2,500.00	2,500.00	2,467.89	2,467.80	5.48	3.59	166.49	-5,210.78	1,251.73	5,359.03	5,349.95	9.07	590.739	
2,600.00	2,600.00	2,567.64	2,567.54	5.71	3.72	166.49	-5,210.93	1,251.75	5,359.17	5,349.74	9.43	568.248	
2,700.00	2,700.00	2,669.60	2,669.51	5.93	3.86	166.49	-5,211.08	1,251.72	5,359.31	5,349.51	9.79	547.157	
2,800.00	2,800.00	2,771.75	2,771.66	6.15	4.00	166.49	-5,211.20	1,251.62	5,359.40	5,349.24	10.16	527.494	
2,900.00	2,900.00	2,873.94	2,873.84	6.38	4.15	166.50	-5,211.31	1,251.40	5,359.45	5,348.92	10.54	508.596	
3,000.00	3,000.00	2,974.69	2,974.59	6.60	4.31	166.50	-5,211.42	1,251.01	5,359.47	5,348.55	10.92	490.938	
3,100.00	3,100.00	3,070.82	3,070.72	6.83	4.47	166.50	-5,211.54	1,250.74	5,359.52	5,348.22	11.30	474.275	
3,200.00	3,200.00	3,168.61	3,168.52	7.05	4.63	166.51	-5,211.68	1,250.66	5,359.65	5,347.96	11.69	458.540	
3,300.00	3,300.00	3,271.19	3,271.09	7.28	4.81	166.51	-5,211.81	1,250.59	5,359.76	5,347.67	12.09	443.356	
3,400.00	3,400.00	3,371.60	3,371.51	7.50	4.98	166.51	-5,211.91	1,250.47	5,359.82	5,347.34	12.49	429.194	
3,500.00	3,500.00	3,469.01	3,468.91	7.73	5.15	166.51	-5,212.03	1,250.40	5,359.93	5,347.04	12.89	415.979	
3,600.00	3,600.00	3,565.06	3,564.96	7.95	5.33	166.51	-5,212.19	1,250.37	5,360.08	5,346.80	13.28	403.543	
3,700.00	3,700.00	3,659.55	3,659.45	8.18	5.50	166.51	-5,212.45	1,250.28	5,360.33	5,346.65	13.68	391.820	
3,800.00	3,800.00	3,759.50	3,759.40	8.40	5.68	166.51	-5,212.83	1,250.11	5,360.66	5,346.57	14.09	380.504	
3,900.00	3,900.00	3,865.98	3,865.88	8.63	5.88	166.52	-5,213.15	1,249.88	5,360.90	5,346.39	14.51	369.525	
4,000.00	4,000.00	3,962.08	3,961.98	8.85	6.05	166.52	-5,213.40	1,249.62	5,361.09	5,346.18	14.91	359.561	
4,100.00	4,100.00	4,053.09	4,052.99	9.08	6.22	166.53	-5,213.79	1,249.29	5,361.42	5,346.12	15.30	350.317	
4,200.00	4,200.00	4,143.04	4,142.94	9.30	6.40	166.53	-5,214.35	1,248.93	5,361.94	5,346.24	15.70	341.518	
4,300.00	4,300.00	4,232.27	4,232.16	9.53	6.57	166.53	-5,215.04	1,248.77	5,362.65	5,346.55	16.10	333.144	
4,400.00	4,400.00	4,314.55	4,314.44	9.75	6.73	166.53	-5,215.81	1,248.87	5,363.59	5,347.10	16.48	325.422	
4,500.00	4,500.00	4,389.19	4,389.07	9.98	6.87	166.53	-5,216.72	1,249.47	5,364.96	5,348.11	16.85	318.326	
4,600.00	4,600.00	4,467.00	4,466.86	10.20	7.03	166.52	-5,217.91	1,250.71	5,366.81	5,349.58	17.23	311.451	
4,700.00	4,700.00	4,565.66	4,565.49	10.43	7.22	166.50	-5,219.55	1,252.88	5,368.89	5,351.25	17.65	304.194	
4,800.00	4,800.00	4,672.79	4,672.58	10.65	7.42	166.49	-5,221.21	1,254.70	5,370.84	5,352.76	18.08	297.070	
4,900.00	4,900.00	4,751.00	4,750.76	10.87	7.58	166.47	-5,222.40	1,256.63	5,372.92	5,354.46	18.46	291.115	
5,000.00	5,000.00	4,825.75	4,825.46	11.10	7.73	166.45	-5,223.72	1,259.14	5,375.43	5,356.60	18.83	285.444	

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 107H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3726.7 @ 3750.20usft (Original Well Elev)
Reference Site:	Thistle Unit	MD Reference:	3726.7 @ 3750.20usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	107H	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							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,100.00	4,931.90	4,931.51	11.32	7.94	166.41	-5,225.84	1,263.14	5,378.26	5,359.00	19.27	279.153	
5,200.00	5,199.98	5,098.24	5,097.78	11.54	8.26	76.37	-5,227.92	1,267.25	5,379.47	5,359.88	19.79	271.824	
5,300.00	5,299.92	5,192.10	5,191.82	11.73	8.44	76.39	-5,228.99	1,268.94	5,380.18	5,360.01	20.17	266.710	
5,400.00	5,399.86	5,301.21	5,300.71	11.93	8.66	76.42	-5,230.25	1,270.59	5,380.83	5,360.25	20.59	261.368	
5,500.00	5,499.80	5,402.00	5,401.48	12.13	8.86	76.44	-5,231.25	1,272.28	5,381.37	5,360.38	20.99	256.406	
5,600.00	5,599.74	5,483.78	5,483.22	12.34	9.02	76.45	-5,231.97	1,274.60	5,382.08	5,360.73	21.35	252.034	
5,700.00	5,699.88	5,560.72	5,560.09	12.54	9.18	76.44	-5,232.69	1,277.90	5,383.18	5,361.47	21.71	247.912	
5,800.00	5,799.81	5,636.21	5,635.44	12.74	9.34	76.42	-5,233.44	1,282.42	5,384.73	5,362.66	22.07	243.953	
5,900.00	5,899.55	5,739.36	5,738.28	12.95	9.55	76.38	-5,234.33	1,290.71	5,386.85	5,364.16	22.49	239.514	
6,000.00	5,999.49	5,888.55	5,886.94	13.15	9.86	76.30	-5,234.50	1,302.95	5,387.86	5,364.86	23.00	234.235	
6,100.00	6,099.43	5,998.26	5,994.31	13.36	10.08	76.25	-5,234.15	1,311.51	5,388.60	5,365.17	23.43	230.000	
6,200.00	6,199.37	6,113.74	6,111.44	13.57	10.32	76.20	-5,233.62	1,320.48	5,389.16	5,365.29	23.86	225.701	
6,300.00	6,299.31	6,246.54	6,243.92	13.78	10.60	76.15	-5,232.55	1,329.71	5,389.21	5,364.85	24.36	221.231	
6,400.00	6,399.25	6,339.15	6,336.31	13.98	10.79	76.12	-5,231.62	1,335.87	5,388.99	5,364.23	24.76	217.612	
6,466.84	6,466.05	6,399.44	6,396.46	14.13	10.92	76.10	-5,231.08	1,340.03	5,388.95	5,363.92	25.03	215.285	
6,500.00	6,499.19	6,429.34	6,426.29	14.19	10.98	76.09	-5,230.82	1,342.14	5,388.96	5,363.80	25.16	214.151	
6,600.00	6,599.16	6,508.87	6,505.60	14.40	11.15	76.05	-5,230.26	1,347.95	5,389.51	5,363.98	25.54	211.039	
6,633.33	6,632.49	6,534.66	6,531.32	14.46	11.21	166.04	-5,230.13	1,349.92	5,389.93	5,364.27	25.66	210.065	
6,700.00	6,699.16	6,586.20	6,582.70	14.59	11.32	165.99	-5,229.95	1,353.96	5,390.97	5,365.07	25.90	208.121	
6,800.00	6,799.16	6,676.28	6,672.47	14.81	11.52	165.92	-5,229.85	1,361.33	5,392.85	5,366.53	26.32	204.885	
6,900.00	6,899.16	6,786.05	6,781.89	15.04	11.76	165.83	-5,229.67	1,370.15	5,394.66	5,367.88	26.78	201.428	
7,000.00	6,999.16	6,875.89	6,871.45	15.26	11.95	165.75	-5,229.50	1,377.20	5,396.42	5,369.22	27.20	198.396	
7,100.00	7,099.16	6,955.99	6,951.30	15.48	12.13	165.69	-5,229.61	1,383.57	5,398.52	5,370.92	27.60	195.615	
7,200.00	7,199.16	7,043.80	7,038.82	15.71	12.32	165.62	-5,230.02	1,390.65	5,400.97	5,372.96	28.01	192.808	
7,300.00	7,299.16	7,149.81	7,144.32	15.93	12.55	165.53	-5,230.60	1,398.85	5,403.43	5,374.97	28.47	189.816	
7,400.00	7,399.16	7,257.17	7,251.58	16.15	12.79	165.45	-5,231.17	1,406.71	5,405.79	5,376.86	28.92	186.898	
7,500.00	7,499.16	7,368.20	7,360.36	16.38	13.03	165.38	-5,231.72	1,414.11	5,407.98	5,378.60	29.38	184.053	
7,600.00	7,599.16	7,470.49	7,464.42	16.60	13.25	165.31	-5,232.14	1,421.02	5,410.05	5,380.22	29.83	181.341	
7,700.00	7,699.16	7,573.52	7,567.18	16.82	13.48	165.24	-5,232.33	1,428.43	5,412.07	5,381.78	30.28	178.721	
7,800.00	7,799.16	7,673.98	7,667.39	17.05	13.70	165.16	-5,232.48	1,435.63	5,414.05	5,383.33	30.73	176.206	
7,900.00	7,899.16	7,773.90	7,767.09	17.27	13.92	165.10	-5,232.82	1,442.06	5,416.03	5,384.86	31.17	173.768	
8,000.00	7,999.16	7,867.45	7,860.47	17.49	14.13	165.04	-5,233.30	1,447.70	5,418.08	5,386.49	31.60	171.483	
8,100.00	8,099.16	7,955.00	7,947.87	17.72	14.32	164.99	-5,233.89	1,452.83	5,420.25	5,388.24	32.01	169.332	
8,200.00	8,199.16	8,053.81	8,046.52	17.94	14.54	164.94	-5,234.76	1,458.31	5,422.55	5,390.10	32.45	167.115	
8,300.00	8,299.16	8,147.00	8,139.59	18.17	14.74	164.89	-5,235.82	1,463.07	5,424.98	5,392.11	32.87	165.023	
8,400.00	8,399.16	8,257.57	8,250.03	18.39	14.98	164.84	-5,237.18	1,468.18	5,427.38	5,394.04	33.34	162.811	
8,500.00	8,499.16	8,362.72	8,355.08	18.61	15.21	164.80	-5,238.43	1,472.48	5,429.59	5,395.81	33.78	160.711	
8,600.00	8,599.16	8,455.65	8,447.94	18.84	15.41	164.77	-5,239.67	1,475.92	5,431.86	5,397.65	34.21	158.794	
8,700.00	8,699.16	8,552.18	8,544.40	19.06	15.61	164.74	-5,241.18	1,479.18	5,434.25	5,399.62	34.64	156.894	
8,800.00	8,799.16	8,658.16	8,650.33	19.28	15.84	164.71	-5,242.85	1,482.47	5,436.60	5,401.51	35.09	154.954	
8,900.00	8,899.16	8,761.63	8,753.73	19.51	16.06	164.69	-5,244.46	1,485.40	5,438.84	5,403.31	35.53	153.085	
9,000.00	8,999.16	8,862.57	8,854.64	19.73	16.28	164.67	-5,246.09	1,487.91	5,441.06	5,405.09	35.97	151.286	
9,100.00	9,099.16	8,969.71	8,961.73	19.96	16.50	164.65	-5,247.85	1,490.28	5,443.22	5,406.81	36.41	149.482	
9,200.00	9,199.16	9,080.64	9,072.63	20.18	16.74	164.63	-5,249.48	1,492.58	5,445.20	5,408.33	36.87	147.689	
9,300.00	9,299.16	9,204.34	9,196.30	20.40	16.99	164.61	-5,251.02	1,494.78	5,446.96	5,409.51	37.35	145.834	
9,400.00	9,399.16	9,317.25	9,309.19	20.63	17.23	164.60	-5,252.15	1,496.04	5,448.12	5,410.31	37.81	144.100	
9,500.00	9,499.16	9,412.47	9,404.41	20.85	17.43	164.60	-5,253.16	1,496.85	5,449.37	5,411.14	38.23	142.542	
9,523.37	9,522.53	9,434.73	9,426.66	20.90	17.48	164.59	-5,253.41	1,497.02	5,449.67	5,411.34	38.33	142.183	
9,525.00	9,524.16	9,436.28	9,428.21	20.91	17.48	-14.98	-5,253.43	1,497.03	5,449.69	5,411.36	38.33	142.174	
9,550.00	9,549.15	9,460.08	9,452.01	20.95	17.53	-15.00	-5,253.71	1,497.20	5,449.31	5,410.92	38.39	141.944	
9,575.00	9,574.08	9,490.35	9,482.28	20.99	17.59	-15.05	-5,254.07	1,497.39	5,447.66	5,409.26	38.39	141.885	
9,600.00	9,598.83	9,523.70	9,515.63	21.04	17.66	-15.16	-5,254.42	1,497.58	5,444.71	5,406.37	38.34	142.017	

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 107H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3726.7 @ 3750.20usft (Original Well Elev)
Reference Site:	Thistle Unit	MD Reference:	3726.7 @ 3750.20usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	107H	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	
9,625.00	9,623.40	9,556.78	9,548.71	21.08	17.73	-15.31	-5,254.72	1,497.73	5,440.48	5,402.28	38.22	142.362	
9,650.00	9,647.88	9,589.48	9,581.41	21.13	17.80	-15.52	-5,254.97	1,497.85	5,434.97	5,396.94	38.03	142.917	
9,675.00	9,671.83	9,621.71	9,613.64	21.17	17.86	-15.77	-5,255.18	1,497.95	5,428.20	5,390.42	37.78	143.678	
9,700.00	9,695.16	9,653.38	9,645.30	21.22	17.93	-16.08	-5,255.34	1,498.01	5,420.19	5,382.72	37.47	144.641	
9,725.00	9,718.22	9,674.29	9,666.21	21.28	17.97	-16.44	-5,255.43	1,498.05	5,410.99	5,373.90	37.09	145.886	
9,750.00	9,740.75	9,693.43	9,685.35	21.31	18.01	-16.86	-5,255.53	1,498.08	5,400.85	5,363.99	36.86	147.332	
9,775.00	9,762.87	9,712.07	9,704.00	21.35	18.05	-17.35	-5,255.64	1,498.11	5,389.20	5,353.02	36.18	148.959	
9,800.00	9,783.94	9,730.18	9,722.10	21.40	18.08	-17.91	-5,255.75	1,498.15	5,376.86	5,341.00	35.87	150.749	
9,825.00	9,804.50	9,747.70	9,739.62	21.44	18.12	-18.58	-5,255.87	1,498.19	5,363.08	5,327.96	35.13	152.679	
9,850.00	9,824.28	9,764.58	9,756.50	21.49	18.16	-19.30	-5,256.00	1,498.23	5,348.49	5,313.92	34.57	154.715	
9,875.00	9,843.23	9,780.78	9,772.70	21.54	18.19	-20.15	-5,256.13	1,498.27	5,332.93	5,298.92	34.01	156.809	
9,900.00	9,861.30	9,798.28	9,788.18	21.59	18.22	-21.14	-5,256.26	1,498.31	5,316.44	5,282.98	33.46	158.897	
9,925.00	9,878.45	9,810.97	9,802.89	21.65	18.25	-22.27	-5,256.39	1,498.35	5,299.06	5,266.13	32.94	160.892	
9,950.00	9,894.82	9,824.87	9,816.79	21.72	18.28	-23.58	-5,256.53	1,498.39	5,280.85	5,248.39	32.46	162.881	
9,975.00	9,909.77	9,848.00	9,837.92	21.80	18.32	-25.14	-5,256.74	1,498.45	5,261.86	5,229.77	32.09	163.992	
10,000.00	9,923.85	9,850.74	9,842.66	21.88	18.33	-26.87	-5,256.79	1,498.47	5,242.11	5,210.34	31.77	165.010	
10,025.00	9,936.84	9,863.75	9,855.66	21.96	18.36	-28.98	-5,256.93	1,498.50	5,221.89	5,190.07	31.62	165.138	
10,050.00	9,948.89	9,875.85	9,867.57	22.06	18.38	-31.42	-5,257.06	1,498.52	5,200.83	5,168.98	31.65	164.294	
10,075.00	9,959.38	9,886.43	9,878.34	22.16	18.40	-34.35	-5,257.18	1,498.53	5,179.00	5,147.08	31.92	162.263	
10,100.00	9,968.87	9,896.04	9,887.95	22.27	18.42	-37.85	-5,257.28	1,498.53	5,156.86	5,124.40	32.46	158.885	
10,125.00	9,977.13	9,904.46	9,896.37	22.39	18.44	-42.05	-5,257.38	1,498.52	5,134.26	5,100.95	33.31	154.117	
10,150.00	9,984.15	9,911.86	9,903.57	22.51	18.46	-47.12	-5,257.47	1,498.52	5,111.27	5,076.76	34.51	148.106	
10,175.00	9,989.90	9,917.82	9,909.53	22.64	18.47	-53.20	-5,257.54	1,498.51	5,087.96	5,051.94	36.02	141.246	
10,200.00	9,994.37	9,922.33	9,914.24	22.78	18.48	-60.45	-5,257.59	1,498.50	5,064.39	5,026.65	37.74	134.194	
10,225.00	9,997.55	9,925.76	9,917.67	22.93	18.49	-68.88	-5,257.63	1,498.50	5,040.81	5,001.18	39.44	127.812	
10,250.00	9,999.43	9,927.91	9,919.83	23.08	18.49	-78.35	-5,257.66	1,498.49	5,016.71	4,975.92	40.78	123.004	
10,273.37	10,000.00	9,928.76	9,920.67	23.23	18.49	-87.77	-5,257.67	1,498.49	4,994.30	4,952.87	41.43	120.550	
10,300.00	10,000.00	9,929.08	9,920.99	23.41	18.49	-87.78	-5,257.67	1,498.49	4,968.76	4,927.16	41.61	119.421	
10,400.00	10,000.00	9,930.28	9,922.19	24.15	18.49	-87.83	-5,257.69	1,498.49	4,872.96	4,830.61	42.35	115.059	
10,500.00	10,000.00	9,931.49	9,923.40	25.00	18.50	-87.88	-5,257.70	1,498.48	4,777.33	4,734.13	43.21	110.564	
10,600.00	10,000.00	9,932.70	9,924.62	25.96	18.50	-87.93	-5,257.72	1,498.48	4,681.89	4,637.72	44.17	106.004	
10,700.00	10,000.00	9,933.92	9,925.83	27.00	18.50	-87.98	-5,257.73	1,498.48	4,586.84	4,541.42	45.22	101.439	
10,800.00	10,000.00	9,935.15	9,927.06	28.13	18.50	-88.03	-5,257.75	1,498.48	4,491.59	4,445.25	46.34	96.918	
10,900.00	10,000.00	9,936.38	9,928.29	29.32	18.51	-88.08	-5,257.76	1,498.47	4,396.77	4,349.22	47.54	92.477 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 107H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3726.7 @ 3750.20usft (Original Well Elev)
Reference Site:	Thistle Unit	MD Reference:	3726.7 @ 3750.20usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	107H	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	165.88	-5,216.43	1,312.51	5,379.07				
100.00	100.00	56.69	56.69	0.09	0.04	165.88	-5,216.52	1,312.55	5,379.15	5,379.03	0.13	N/A	
200.00	200.00	131.18	131.18	0.31	0.10	165.88	-5,216.94	1,312.74	5,379.75	5,379.35	0.41	N/A	
300.00	300.00	213.09	213.08	0.54	0.18	165.87	-5,217.72	1,313.09	5,380.78	5,380.07	0.70	7,653.260	
400.00	400.00	333.83	333.82	0.76	0.27	165.88	-5,219.07	1,313.13	5,381.89	5,380.88	1.01	5,307.065	
500.00	500.00	445.42	445.39	0.99	0.33	165.89	-5,220.15	1,311.80	5,382.54	5,381.24	1.30	4,145.667	
600.00	600.00	537.21	537.18	1.21	0.37	165.91	-5,221.01	1,310.82	5,383.19	5,381.62	1.57	3,435.911	
700.00	700.00	647.01	646.98	1.43	0.42	165.92	-5,222.00	1,309.73	5,383.82	5,381.98	1.84	2,926.312	
800.00	800.00	756.93	756.88	1.66	0.47	165.93	-5,222.70	1,309.00	5,384.28	5,382.17	2.11	2,551.733	
900.00	900.00	864.12	864.07	1.88	0.52	165.93	-5,223.07	1,308.70	5,384.54	5,382.17	2.38	2,265.571	
1,000.00	1,000.00	961.62	961.58	2.11	0.56	165.94	-5,223.38	1,308.46	5,384.77	5,382.13	2.64	2,041.255	
1,100.00	1,100.00	1,067.89	1,067.83	2.33	0.61	165.94	-5,223.73	1,308.14	5,385.04	5,382.13	2.90	1,855.699	
1,200.00	1,200.00	1,168.62	1,168.56	2.56	0.84	165.95	-5,224.00	1,307.54	5,385.16	5,381.99	3.16	1,702.076	
1,300.00	1,300.00	1,272.03	1,271.97	2.78	0.88	165.96	-5,224.49	1,306.27	5,385.32	5,381.89	3.43	1,570.704	
1,400.00	1,400.00	1,389.97	1,389.88	3.01	0.72	165.98	-5,224.91	1,304.17	5,385.23	5,381.54	3.69	1,458.088	
1,500.00	1,500.00	1,504.79	1,504.69	3.23	0.75	166.00	-5,224.91	1,302.29	5,384.84	5,380.88	3.96	1,360.658	
1,600.00	1,600.00	1,616.22	1,616.11	3.46	0.85	166.02	-5,224.56	1,300.72	5,384.19	5,379.91	4.28	1,257.955	
1,700.00	1,700.00	1,725.25	1,725.12	3.68	0.96	166.04	-5,224.04	1,299.04	5,383.35	5,378.73	4.62	1,165.146	
1,800.00	1,800.00	1,819.69	1,819.55	3.91	1.10	166.05	-5,223.57	1,297.58	5,382.50	5,377.51	4.99	1,079.283	
1,900.00	1,900.00	1,906.00	1,905.85	4.13	1.23	166.06	-5,223.22	1,296.25	5,381.75	5,376.40	5.34	1,007.404	
2,000.00	2,000.00	1,998.40	1,998.24	4.36	1.39	166.07	-5,222.99	1,295.04	5,381.19	5,375.46	5.73	939.003	
2,100.00	2,100.00	2,095.00	2,094.84	4.58	1.56	166.08	-5,222.96	1,294.12	5,380.93	5,374.81	6.13	878.207	
2,200.00	2,200.00	2,178.92	2,178.76	4.81	1.73	166.09	-5,223.03	1,293.59	5,380.84	5,374.32	6.52	825.537	
2,290.84	2,290.84	2,266.90	2,266.74	5.01	1.90	166.09	-5,223.08	1,293.29	5,380.82	5,373.92	6.90	780.281	
2,300.00	2,300.00	2,275.99	2,275.83	5.03	1.92	166.09	-5,223.09	1,293.27	5,380.82	5,373.88	6.94	775.885	
2,400.00	2,400.00	2,380.26	2,380.10	5.26	2.13	166.09	-5,223.09	1,293.15	5,380.79	5,373.41	7.37	729.788	
2,500.00	2,500.00	2,483.72	2,483.56	5.48	2.34	166.09	-5,222.97	1,293.10	5,380.67	5,372.86	7.81	688.981	
2,596.98	2,596.98	2,573.25	2,573.08	5.70	2.52	166.09	-5,222.91	1,293.08	5,380.60	5,372.40	8.21	655.613	
2,600.00	2,600.00	2,576.03	2,575.87	5.71	2.53	166.09	-5,222.91	1,293.08	5,380.60	5,372.38	8.22	654.626	
2,700.00	2,700.00	2,669.19	2,669.02	5.93	2.71	166.09	-5,222.99	1,293.05	5,380.68	5,372.05	8.63	623.447	
2,800.00	2,800.00	2,773.70	2,773.54	6.15	2.91	166.10	-5,223.11	1,292.97	5,380.77	5,371.71	9.06	593.908	
2,900.00	2,900.00	2,877.81	2,877.64	6.38	3.12	166.10	-5,223.15	1,292.83	5,380.77	5,371.28	9.49	566.965	
3,000.00	3,000.00	2,980.73	2,980.57	6.60	3.33	166.10	-5,223.13	1,292.68	5,380.72	5,370.79	9.92	542.184	
3,100.00	3,100.00	3,076.97	3,076.81	6.83	3.52	166.10	-5,223.08	1,292.55	5,380.63	5,370.29	10.34	520.122	
3,105.67	3,105.67	3,081.94	3,081.77	6.84	3.53	166.10	-5,223.08	1,292.54	5,380.63	5,370.27	10.37	518.973	
3,200.00	3,200.00	3,164.50	3,164.33	7.05	3.70	166.10	-5,223.20	1,292.43	5,380.74	5,369.99	10.75	500.583	
3,300.00	3,300.00	3,258.42	3,258.25	7.28	3.89	166.10	-5,223.54	1,292.30	5,381.06	5,369.89	11.17	481.931	
3,400.00	3,400.00	3,369.27	3,369.10	7.50	4.12	166.11	-5,223.86	1,292.07	5,381.29	5,369.67	11.62	463.276	
3,500.00	3,500.00	3,472.65	3,472.49	7.73	4.33	166.11	-5,224.01	1,291.79	5,381.36	5,369.30	12.05	446.439	
3,600.00	3,600.00	3,570.60	3,570.44	7.95	4.54	166.11	-5,224.14	1,291.63	5,381.44	5,368.96	12.48	431.085	
3,700.00	3,700.00	3,663.46	3,663.29	8.18	4.73	166.11	-5,224.30	1,291.54	5,381.60	5,368.70	12.90	417.143	
3,800.00	3,800.00	3,753.55	3,753.38	8.40	4.92	166.12	-5,224.64	1,291.41	5,381.93	5,368.62	13.31	404.284	
3,900.00	3,900.00	3,858.05	3,857.88	8.63	5.13	166.12	-5,225.15	1,291.25	5,382.37	5,368.62	13.75	391.342	
4,000.00	4,000.00	3,974.86	3,974.68	8.85	5.37	166.12	-5,225.34	1,291.39	5,382.55	5,368.33	14.22	378.500	
4,100.00	4,100.00	4,074.43	4,074.26	9.08	5.58	166.12	-5,225.31	1,291.57	5,382.57	5,367.92	14.65	367.382	
4,200.00	4,200.00	4,174.00	4,173.83	9.30	5.79	166.12	-5,225.40	1,291.44	5,382.62	5,367.54	15.08	356.903	
4,300.00	4,300.00	4,253.52	4,253.34	9.53	5.95	166.12	-5,225.61	1,291.40	5,382.87	5,367.39	15.47	347.948	
4,400.00	4,400.00	4,334.23	4,334.05	9.75	6.12	166.12	-5,226.03	1,291.72	5,383.47	5,367.61	15.86	339.401	
4,500.00	4,500.00	4,416.07	4,415.89	9.98	6.29	166.11	-5,226.66	1,292.43	5,384.42	5,368.16	16.26	331.170	
4,600.00	4,600.00	4,498.53	4,498.34	10.20	6.46	166.10	-5,227.47	1,293.55	5,385.70	5,369.04	16.66	323.289	
4,700.00	4,700.00	4,617.31	4,617.09	10.43	6.71	166.08	-5,228.69	1,295.84	5,387.19	5,370.06	17.14	314.374	
4,800.00	4,800.00	4,765.00	4,764.74	10.65	7.03	166.04	-5,228.55	1,299.36	5,387.59	5,369.92	17.67	304.827	

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: 107H
 Well Error: 0.00 usft
 Reference Wellbore: OH
 Reference Design: Plan #1

Local Co-ordinate Reference: Well 107H
 TVD Reference: 3726.7 @ 3750.20usft (Original Well Elev)
 MD Reference: 3726.7 @ 3750.20usft (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 Tooface (")	Offset Wellbore Centre +N-S (usft)	+E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
4,900.00	4,900.00	4,838.00	4,835.70	10.87	7.18	166.02	-5,228.40	1,301.52	5,388.11	5,370.06	18.05	298.520	
5,000.00	5,000.00	5,091.54	5,091.12	11.10	7.71	165.95	-5,225.03	1,308.05	5,387.50	5,368.70	18.80	286.533	
5,100.00	5,100.00	5,163.81	5,163.38	11.32	7.85	165.93	-5,223.33	1,308.92	5,385.54	5,366.37	19.17	280.875	
5,200.00	5,199.98	5,238.51	5,238.05	11.54	8.01	75.97	-5,222.06	1,309.96	5,383.79	5,364.25	19.54	275.596	
5,300.00	5,299.92	5,328.37	5,327.88	11.73	8.20	75.98	-5,220.73	1,311.53	5,381.92	5,362.00	19.92	270.130	
5,400.00	5,399.86	5,498.87	5,498.22	11.93	8.58	75.97	-5,216.89	1,317.23	5,379.83	5,359.35	20.49	262.813	
5,500.00	5,499.80	5,643.81	5,642.88	12.13	8.88	75.90	-5,210.08	1,327.34	5,376.08	5,355.08	21.00	255.950	
5,600.00	5,599.74	5,740.87	5,739.11	12.34	9.08	75.85	-5,205.14	1,334.68	5,372.14	5,350.72	21.42	250.849	
5,700.00	5,699.68	5,834.23	5,832.24	12.54	9.29	75.79	-5,200.36	1,342.25	5,368.31	5,346.48	21.82	246.008	
5,800.00	5,799.61	5,921.53	5,919.11	12.74	9.48	75.73	-5,195.93	1,349.70	5,364.63	5,342.41	22.22	241.440	
5,900.00	5,899.55	6,005.15	6,002.31	12.95	9.67	75.68	-5,191.91	1,356.99	5,361.25	5,338.64	22.61	237.099	
6,000.00	5,999.49	6,093.08	6,089.79	13.15	9.86	75.62	-5,187.91	1,364.76	5,358.16	5,335.15	23.01	232.830	
6,100.00	6,099.43	6,184.00	6,180.91	13.36	10.07	2.40	-61.32	1,869.65	5,268.36	5,174.21	94.16	55.953	
6,200.00	6,199.37	6,274.00	6,271.91	13.57	10.27	2.40	-61.32	1,869.65	5,172.37	5,078.01	94.36	54.815	
6,300.00	6,299.31	6,364.00	6,361.91	13.78	10.47	2.40	-61.32	1,869.65	5,076.52	4,981.96	94.57	53.683	
6,400.00	6,399.25	6,454.00	6,451.91	13.98	10.67	2.40	-61.32	1,869.65	4,980.84	4,886.07	94.77	52.557	
6,500.00	6,499.19	6,544.00	6,541.91	14.19	10.87	2.40	-61.32	1,869.65	4,885.34	4,790.36	94.98	51.437	
6,600.00	6,599.16	6,634.00	6,631.91	14.40	11.07	2.22	-61.32	1,869.65	4,790.42	4,695.23	95.19	50.324	
6,633.33	6,632.49	6,664.00	6,661.91	14.46	11.12	92.17	-61.32	1,869.65	4,759.02	4,663.78	95.26	49.957	
6,700.00	6,699.16	6,754.00	6,751.91	14.59	11.27	92.17	-61.32	1,869.65	4,696.40	4,601.00	95.40	49.231	
6,800.00	6,799.16	6,844.00	6,841.91	14.81	11.47	92.17	-61.32	1,869.65	4,602.68	4,507.08	95.62	48.136	
6,900.00	6,899.16	6,934.00	6,931.91	15.04	11.67	92.17	-61.32	1,869.65	4,509.22	4,413.38	95.84	47.049	
7,000.00	6,999.16	7,024.00	7,021.91	15.26	11.87	92.17	-61.32	1,869.65	4,416.06	4,319.99	96.07	45.969	
7,100.00	7,099.16	7,114.00	7,111.91	15.48	12.07	92.17	-61.32	1,869.65	4,323.20	4,226.91	96.29	44.898	
7,200.00	7,199.16	7,204.00	7,201.91	15.71	12.27	92.17	-61.32	1,869.65	4,230.86	4,134.15	96.51	43.836	
7,300.00	7,299.16	7,294.00	7,291.91	15.93	12.47	92.17	-61.32	1,869.65	4,138.48	4,041.74	96.74	42.781	
7,400.00	7,399.16	7,384.00	7,381.91	16.15	12.67	92.17	-61.32	1,869.65	4,046.86	3,949.70	96.96	41.736	
7,500.00	7,499.16	7,474.00	7,471.91	16.38	12.87	92.17	-61.32	1,869.65	3,955.24	3,858.06	97.18	40.699	
7,600.00	7,599.16	7,564.00	7,561.91	16.60	13.07	92.17	-61.32	1,869.65	3,864.25	3,766.84	97.41	39.671	
7,700.00	7,699.16	7,654.00	7,651.91	16.82	13.27	92.17	-61.32	1,869.65	3,773.71	3,676.08	97.63	38.653	
7,800.00	7,799.16	7,644.00	7,641.91	17.05	13.47	92.17	-61.32	1,869.65	3,683.66	3,585.80	97.85	37.644	
7,900.00	7,899.16	7,634.00	7,631.91	17.27	13.67	92.17	-61.32	1,869.65	3,594.14	3,496.06	98.08	36.646	
8,000.00	7,999.16	7,624.00	7,621.91	17.49	13.87	92.17	-61.32	1,869.65	3,505.18	3,406.88	98.30	35.657	
8,100.00	8,099.16	7,614.00	7,611.91	17.72	14.07	92.17	-61.32	1,869.65	3,416.83	3,318.31	98.53	34.680	
8,200.00	8,199.16	7,604.00	7,601.91	17.94	14.27	92.17	-61.32	1,869.65	3,329.15	3,230.40	98.75	33.713	
8,300.00	8,299.16	7,594.00	7,591.91	18.17	14.47	92.17	-61.32	1,869.65	3,242.17	3,143.20	98.97	32.758	
8,400.00	8,399.16	7,584.00	7,581.91	18.39	14.67	92.17	-61.32	1,869.65	3,155.97	3,056.78	99.20	31.815	
8,500.00	8,499.16	7,574.00	7,571.91	18.61	14.87	92.17	-61.32	1,869.65	3,070.61	2,971.19	99.42	30.885	
8,600.00	8,599.16	7,564.00	7,561.91	18.84	15.07	92.17	-61.32	1,869.65	2,986.15	2,886.51	99.64	29.968	
8,700.00	8,699.16	7,554.00	7,551.91	19.06	15.27	92.17	-61.32	1,869.65	2,902.68	2,802.82	99.87	29.065	
8,800.00	8,799.16	7,544.00	7,541.91	19.28	15.47	92.17	-61.32	1,869.65	2,820.29	2,720.20	100.09	28.177	
8,900.00	8,899.16	7,534.00	7,531.91	19.51	15.67	92.17	-61.32	1,869.65	2,739.07	2,638.76	100.32	27.304	
9,000.00	8,999.16	7,524.00	7,521.91	19.73	15.87	92.17	-61.32	1,869.65	2,659.13	2,558.59	100.54	26.449	
9,100.00	9,099.16	7,514.00	7,511.91	19.96	16.07	92.17	-61.32	1,869.65	2,580.59	2,479.83	100.76	25.610	
9,200.00	9,199.16	7,504.00	7,501.91	20.18	16.27	92.17	-61.32	1,869.65	2,503.58	2,402.60	100.99	24.791	
9,300.00	9,299.16	7,494.00	7,491.91	20.40	16.47	92.17	-61.32	1,869.65	2,428.25	2,327.04	101.21	23.992	
9,400.00	9,399.16	7,484.00	7,481.91	20.63	16.67	92.17	-61.32	1,869.65	2,354.76	2,253.32	101.44	23.214	
9,500.00	9,499.16	7,474.00	7,471.91	20.85	16.87	92.17	-61.32	1,869.65	2,283.28	2,181.82	101.66	22.460	
9,523.37	9,522.53	7,464.00	7,461.91	20.90	16.92	92.17	-61.32	1,869.65	2,268.88	2,165.17	101.71	22.287	
9,525.00	9,524.16	7,454.00	7,451.91	20.91	16.93	-87.60	-61.32	1,869.65	2,265.74	2,164.05	101.69	22.280	
9,550.00	9,549.15	7,444.00	7,441.91	20.95	16.97	-90.51	-61.32	1,869.65	2,248.34	2,146.82	101.51	22.148	
9,575.00	9,574.06	7,434.00	7,431.91	20.99	17.01	-93.37	-61.32	1,869.65	2,231.08	2,129.94	101.15	22.058	

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

LEAM Drilling Systems LLC

Anticollision Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 107H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3726.7 @ 3750.20usft (Original Well Elev)
Reference Site:	Thistle Unit	MD Reference:	3726.7 @ 3750.20usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	107H	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		Minimum Separation		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
9,800.00	9,598.83	16,045.00	11,082.91	21.04	80.87	-96.15	-61.32	1,869.65	2,214.03	2,113.42	100.61	22.006	
9,825.00	9,623.40	16,045.00	11,082.91	21.08	80.87	-98.85	-61.32	1,869.65	2,197.24	2,097.31	99.93	21.988 SF	
9,850.00	9,647.88	16,045.00	11,082.91	21.13	80.87	-101.44	-61.32	1,869.65	2,180.76	2,081.64	99.12	22.001	
9,875.00	9,671.83	16,045.00	11,082.91	21.17	80.87	-103.91	-61.32	1,869.65	2,164.63	2,066.42	98.21	22.040	
9,900.00	9,695.16	16,036.67	11,083.27	21.22	80.87	-106.01	-69.62	1,869.14	2,148.91	2,051.52	97.38	22.066	
9,925.00	9,718.22	16,026.05	11,083.74	21.26	80.87	-107.93	-80.21	1,868.49	2,133.60	2,037.02	96.58	22.092	
9,950.00	9,740.75	16,014.28	11,084.25	21.31	80.87	-109.71	-91.97	1,867.77	2,118.74	2,022.96	95.78	22.121	
9,975.00	9,762.87	16,001.34	11,084.82	21.35	80.87	-111.35	-104.85	1,866.98	2,104.35	2,009.37	94.99	22.154	
9,999.00	9,783.94	15,986.43	11,085.47	21.40	80.77	-112.84	-119.73	1,866.06	2,090.48	1,996.29	94.19	22.194	
9,925.00	9,804.50	15,969.03	11,086.20	21.44	80.50	-114.19	-137.07	1,865.00	2,077.13	1,983.85	93.27	22.270	
9,850.00	9,824.28	15,950.54	11,086.95	21.49	80.22	-115.42	-155.51	1,863.87	2,064.31	1,971.92	92.39	22.343	
9,875.00	9,843.23	15,931.00	11,087.70	21.54	79.93	-116.54	-175.00	1,862.67	2,052.06	1,960.51	91.55	22.414	
9,900.00	9,861.30	15,911.18	11,088.42	21.59	79.63	-117.58	-194.77	1,861.46	2,040.39	1,949.63	90.76	22.481	
9,925.00	9,878.45	15,891.71	11,089.09	21.65	79.34	-118.55	-214.19	1,860.29	2,029.33	1,939.31	90.02	22.543	
9,950.00	9,894.62	15,871.45	11,089.74	21.72	79.05	-119.44	-234.41	1,859.10	2,018.89	1,929.57	89.33	22.602	
9,975.00	9,909.77	15,850.44	11,090.36	21.80	78.74	-120.24	-255.38	1,857.89	2,009.10	1,920.42	88.68	22.656	
10,000.00	9,923.85	15,828.73	11,090.95	21.88	78.42	-120.96	-277.04	1,856.67	1,999.96	1,911.89	88.07	22.708	
10,025.00	9,936.84	15,809.75	11,091.44	21.96	78.15	-121.66	-295.99	1,855.63	1,991.51	1,903.98	87.53	22.752	
10,050.00	9,948.69	15,791.41	11,091.92	22.06	77.88	-122.29	-314.29	1,854.66	1,983.79	1,896.74	87.04	22.791	
10,075.00	9,959.38	15,772.59	11,092.43	22.16	77.60	-122.85	-333.08	1,853.70	1,976.81	1,890.20	86.60	22.826	
10,100.00	9,968.87	15,753.35	11,092.98	22.27	77.32	-123.34	-352.29	1,852.75	1,970.59	1,884.37	86.21	22.857	
10,125.00	9,977.13	15,729.00	11,093.69	22.39	76.97	-123.74	-376.61	1,851.61	1,965.14	1,879.31	85.83	22.895	
10,150.00	9,984.15	15,712.20	11,094.18	22.51	76.72	-124.13	-393.38	1,850.66	1,960.44	1,874.89	85.55	22.916	
10,175.00	9,989.90	15,689.91	11,094.78	22.64	76.38	-124.43	-415.65	1,849.91	1,956.51	1,871.25	85.27	22.945	
10,200.00	9,994.37	15,667.41	11,095.35	22.78	76.04	-124.88	-438.12	1,849.02	1,953.35	1,868.32	85.03	22.973	
10,225.00	9,997.55	15,644.76	11,095.87	22.93	75.70	-124.88	-460.75	1,848.20	1,950.96	1,866.12	84.83	22.997	
10,250.00	9,999.43	15,621.29	11,096.35	23.08	75.34	-125.03	-484.20	1,847.40	1,949.33	1,864.66	84.67	23.022	
10,273.37	10,000.00	15,598.56	11,096.77	23.23	75.00	-125.12	-506.92	1,846.69	1,948.51	1,863.96	84.55	23.046	
10,300.00	10,000.00	15,572.86	11,097.16	23.41	74.61	-125.14	-532.80	1,845.94	1,947.95	1,863.61	84.34	23.096	
10,400.00	10,000.00	15,474.60	11,098.15	24.15	73.13	-125.22	-630.83	1,843.54	1,945.93	1,862.30	83.63	23.269	
10,500.00	10,000.00	15,368.32	11,098.68	25.00	71.55	-125.29	-737.08	1,841.25	1,943.85	1,860.92	82.93	23.439	
10,600.00	10,000.00	15,258.92	11,098.68	25.96	69.98	-125.34	-846.45	1,838.64	1,941.30	1,858.97	82.33	23.580	
10,700.00	10,000.00	15,164.48	11,099.51	27.00	68.61	-125.43	-940.84	1,835.67	1,938.64	1,856.88	81.96	23.654	
10,800.00	10,000.00	15,064.04	11,100.71	28.13	67.16	-125.53	-1,041.25	1,832.13	1,935.86	1,854.28	81.58	23.731	
10,900.00	10,000.00	14,965.50	11,101.31	29.32	66.06	-125.59	-1,119.72	1,830.09	1,933.65	1,852.07	81.58	23.702 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: 107H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Plan #1

Local Co-ordinate Reference: Well 107H
TVD Reference: 3726.7 @ 3750.20usft (Original Well Elev)
MD Reference: 3726.7 @ 3750.20usft (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 - 66H - OH - OH														Offset Site Error: 0.00 usft
Survey Program: 89-MWD-ISCWSA, 5014-LEAM MWD+HDGM, 17110-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	17,110.00	9,859.74	10.85	117.19	155.16	-7,831.83	3,626.27	9,950.33	9,832.57	117.76	84.499		
4,900.00	4,900.00	17,110.00	9,859.74	10.87	117.19	155.16	-7,831.83	3,626.27	9,900.94	9,782.96	117.98	83.919		
5,000.00	5,000.00	17,110.00	9,859.74	11.10	117.19	155.16	-7,831.83	3,626.27	9,852.33	9,734.12	118.21	83.348		
5,100.00	5,100.00	17,110.00	9,859.74	11.32	117.19	155.16	-7,831.83	3,626.27	9,804.49	9,686.05	118.43	82.786		
5,200.00	5,199.98	17,110.00	9,859.74	11.54	117.19	66.14	-7,831.83	3,626.27	9,756.80	9,638.30	60.50	161.269		
5,300.00	5,299.92	17,110.00	9,859.74	11.73	117.19	66.14	-7,831.83	3,626.27	9,709.27	9,591.57	60.70	156.961		
5,400.00	5,399.86	17,110.00	9,859.74	11.93	117.19	66.14	-7,831.83	3,626.27	9,662.55	9,544.85	60.90	158.671		
5,500.00	5,499.80	17,110.00	9,859.74	12.13	117.19	66.14	-7,831.83	3,626.27	9,616.63	9,555.54	61.10	157.400		
5,600.00	5,599.74	17,110.00	9,859.74	12.34	117.19	66.14	-7,831.83	3,626.27	9,571.55	9,510.25	61.30	156.148		
5,700.00	5,699.68	17,110.00	9,859.74	12.54	117.19	66.14	-7,831.83	3,626.27	9,527.30	9,465.80	61.50	154.915		
5,800.00	5,799.61	17,110.00	9,859.74	12.74	117.19	66.14	-7,831.83	3,626.27	9,483.89	9,422.19	61.70	153.702		
5,900.00	5,899.55	17,110.00	9,859.74	12.95	117.19	66.14	-7,831.83	3,626.27	9,441.35	9,379.44	61.91	152.507		
6,000.00	5,999.49	17,110.00	9,859.74	13.15	117.19	66.14	-7,831.83	3,626.27	9,399.68	9,337.57	62.11	151.333		
6,100.00	6,099.43	17,110.00	9,859.74	13.36	117.19	66.14	-7,831.83	3,626.27	9,358.89	9,296.57	62.32	150.178		
6,200.00	6,199.37	17,110.00	9,859.74	13.57	117.19	66.14	-7,831.83	3,626.27	9,319.00	9,256.47	62.53	149.044		
6,300.00	6,299.31	17,110.00	9,859.74	13.78	117.19	66.14	-7,831.83	3,626.27	9,280.01	9,217.28	62.73	147.929		
6,400.00	6,399.25	17,110.00	9,859.74	13.98	117.19	66.14	-7,831.83	3,626.27	9,241.94	9,179.00	62.94	146.835		
6,500.00	6,499.19	17,110.00	9,859.74	14.19	117.19	66.14	-7,831.83	3,626.27	9,204.80	9,141.85	63.15	145.761		
6,600.00	6,599.16	17,110.00	9,859.74	14.40	117.19	65.82	-7,831.83	3,626.27	9,169.10	9,104.77	64.32	142.544		
6,633.33	6,632.49	17,110.00	9,859.74	14.46	117.19	155.45	-7,831.83	3,626.27	9,157.63	9,093.66	63.97	143.159		
6,700.00	6,699.16	17,110.00	9,859.74	14.59	117.19	155.45	-7,831.83	3,626.27	9,135.14	9,071.03	64.10	142.511		
6,800.00	6,799.16	17,110.00	9,859.74	14.81	117.19	155.45	-7,831.83	3,626.27	9,102.21	9,037.88	64.32	141.505		
6,900.00	6,899.16	17,110.00	9,859.74	15.04	117.19	155.45	-7,831.83	3,626.27	9,070.26	9,005.71	64.55	140.520		
7,000.00	6,999.16	17,110.00	9,859.74	15.26	117.19	155.45	-7,831.83	3,626.27	9,039.31	8,974.53	64.77	139.556		
7,100.00	7,099.16	17,110.00	9,859.74	15.48	117.19	155.45	-7,831.83	3,626.27	9,009.36	8,944.36	64.99	138.618		
7,200.00	7,199.16	17,110.00	9,859.74	15.71	117.19	155.45	-7,831.83	3,626.27	8,980.42	8,915.20	65.22	137.700		
7,300.00	7,299.16	17,110.00	9,859.74	15.93	117.19	155.45	-7,831.83	3,626.27	8,952.51	8,887.07	65.44	136.803		
7,400.00	7,399.16	17,110.00	9,859.74	16.15	117.19	155.45	-7,831.83	3,626.27	8,925.63	8,859.96	65.66	135.928		
7,500.00	7,499.16	17,110.00	9,859.74	16.38	117.19	155.45	-7,831.83	3,626.27	8,899.79	8,833.90	65.89	135.075		
7,600.00	7,599.16	17,110.00	9,859.74	16.60	117.19	155.45	-7,831.83	3,626.27	8,875.00	8,808.89	66.11	134.244		
7,700.00	7,699.16	17,110.00	9,859.74	16.82	117.19	155.45	-7,831.83	3,626.27	8,851.28	8,784.95	66.33	133.434		
7,800.00	7,799.16	17,110.00	9,859.74	17.05	117.19	155.45	-7,831.83	3,626.27	8,828.62	8,762.07	66.56	132.645		
7,900.00	7,899.16	17,110.00	9,859.74	17.27	117.19	155.45	-7,831.83	3,626.27	8,807.04	8,740.26	66.78	131.878		
8,000.00	7,999.16	17,110.00	9,859.74	17.49	117.19	155.45	-7,831.83	3,626.27	8,786.55	8,719.55	67.01	131.132		
8,100.00	8,099.16	17,110.00	9,859.74	17.72	117.19	155.45	-7,831.83	3,626.27	8,767.15	8,699.92	67.23	130.407		
8,200.00	8,199.16	17,110.00	9,859.74	17.94	117.19	155.45	-7,831.83	3,626.27	8,748.85	8,681.40	67.45	129.703		
8,300.00	8,299.16	17,110.00	9,859.74	18.17	117.19	155.45	-7,831.83	3,626.27	8,731.66	8,663.96	67.68	129.021		
8,400.00	8,399.16	17,110.00	9,859.74	18.39	117.19	155.45	-7,831.83	3,626.27	8,715.58	8,647.68	67.90	128.359		
8,500.00	8,499.16	17,110.00	9,859.74	18.61	117.19	155.45	-7,831.83	3,626.27	8,700.62	8,632.49	68.12	127.718		
8,600.00	8,599.16	17,110.00	9,859.74	18.84	117.19	155.45	-7,831.83	3,626.27	8,686.78	8,618.43	68.35	127.097		
8,700.00	8,699.16	17,110.00	9,859.74	19.06	117.19	155.45	-7,831.83	3,626.27	8,674.08	8,605.50	68.57	126.497		
8,800.00	8,799.16	17,110.00	9,859.74	19.28	117.19	155.45	-7,831.83	3,626.27	8,662.51	8,593.71	68.80	125.917		
8,900.00	8,899.16	17,110.00	9,859.74	19.51	117.19	155.45	-7,831.83	3,626.27	8,652.08	8,583.06	69.02	125.358		
9,000.00	8,999.16	17,110.00	9,859.74	19.73	117.19	155.45	-7,831.83	3,626.27	8,642.80	8,573.55	69.24	124.818		
9,100.00	9,099.16	17,110.00	9,859.74	19.96	117.19	155.45	-7,831.83	3,626.27	8,634.66	8,565.19	69.47	124.299		
9,200.00	9,199.16	17,110.00	9,859.74	20.18	117.19	155.45	-7,831.83	3,626.27	8,627.68	8,557.99	69.69	123.799		
9,300.00	9,299.16	17,110.00	9,859.74	20.40	117.19	155.45	-7,831.83	3,626.27	8,621.85	8,551.93	69.91	123.320		
9,400.00	9,399.16	17,110.00	9,859.74	20.63	117.19	155.45	-7,831.83	3,626.27	8,617.17	8,547.04	70.14	122.859		
9,500.00	9,499.16	17,110.00	9,859.74	20.85	117.19	155.45	-7,831.83	3,626.27	8,613.66	8,543.30	70.36	122.418		
9,523.37	9,522.53	17,110.00	9,859.74	20.90	117.19	155.45	-7,831.83	3,626.27	8,613.01	8,542.59	70.41	122.318		
9,525.00	9,524.16	17,110.00	9,859.74	20.91	117.19	-24.12	-7,831.83	3,626.27	8,612.96	8,541.83	71.13	121.084		
9,550.00	9,549.15	17,110.00	9,859.74	20.95	117.19	-24.19	-7,831.83	3,626.27	8,611.66	8,540.53	71.13	121.062		

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 107H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3726.7 @ 3750.20usft (Original Well Elev)
Reference Site:	Thistle Unit	MD Reference:	3726.7 @ 3750.20usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	107H	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 - 66H - OH - OH												Offset Site Error:	0.00 usft
Survey Program: 89-MWD-ISCWSA, 5014-LEAM MWD+HDGM, 17110-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	
9,575.00	9,574.08	17,110.00	9,859.74	20.99	117.19	-24.31	-7,831.83	3,826.27	8,609.24	8,537.91	71.33	120.698	
9,600.00	9,598.83	17,110.00	9,859.74	21.04	117.19	-24.48	-7,831.83	3,826.27	8,605.71	8,534.00	71.72	119.997	
9,625.00	9,623.40	17,110.00	9,859.74	21.08	117.19	-24.72	-7,831.83	3,826.27	8,601.08	8,528.79	72.29	118.977	
9,650.00	9,647.68	17,110.00	9,859.74	21.13	117.19	-25.02	-7,831.83	3,826.27	8,595.35	8,522.30	73.05	117.859	
9,675.00	9,671.63	17,110.00	9,859.74	21.17	117.19	-25.38	-7,831.83	3,826.27	8,588.54	8,514.55	73.99	116.076	
9,700.00	9,695.16	17,110.00	9,859.74	21.22	117.19	-25.81	-7,831.83	3,826.27	8,580.67	8,505.57	75.10	114.260	
9,725.00	9,718.22	17,110.00	9,859.74	21.26	117.19	-26.31	-7,831.83	3,826.27	8,571.75	8,495.39	76.36	112.248	
9,750.00	9,740.75	17,110.00	9,859.74	21.31	117.19	-26.89	-7,831.83	3,826.27	8,561.81	8,484.03	77.78	110.072	
9,775.00	9,762.67	17,110.00	9,859.74	21.35	117.19	-27.56	-7,831.83	3,826.27	8,550.87	8,471.52	79.35	107.764	
9,800.00	9,783.94	17,110.00	9,859.74	21.40	117.19	-28.33	-7,831.83	3,826.27	8,538.96	8,457.90	81.05	105.348	
9,825.00	9,804.50	17,110.00	9,859.74	21.44	117.19	-29.19	-7,831.83	3,826.27	8,526.10	8,443.19	82.90	102.847	
9,850.00	9,824.28	17,110.00	9,859.74	21.49	117.19	-30.17	-7,831.83	3,826.27	8,512.32	8,427.43	84.89	100.276	
9,875.00	9,843.23	17,110.00	9,859.74	21.54	117.19	-31.28	-7,831.83	3,826.27	8,497.67	8,410.64	87.02	97.646	
9,900.00	9,861.30	17,110.00	9,859.74	21.59	117.19	-32.54	-7,831.83	3,826.27	8,482.16	8,392.85	89.32	94.965	
9,925.00	9,878.45	17,110.00	9,859.74	21.65	117.19	-33.95	-7,831.83	3,826.27	8,465.86	8,374.07	91.78	92.237	
9,950.00	9,894.62	17,110.00	9,859.74	21.72	117.19	-35.55	-7,831.83	3,826.27	8,448.78	8,354.34	94.44	89.464	
9,975.00	9,909.77	17,110.00	9,859.74	21.80	117.19	-37.36	-7,831.83	3,826.27	8,430.98	8,333.68	97.30	86.647	
10,000.00	9,923.85	17,110.00	9,859.74	21.88	117.19	-39.40	-7,831.83	3,826.27	8,412.50	8,312.10	100.40	83.791	
10,025.00	9,936.84	17,110.00	9,859.74	21.96	117.19	-41.72	-7,831.83	3,826.27	8,393.39	8,289.64	103.75	80.902	
10,050.00	9,948.99	17,110.00	9,859.74	22.06	117.19	-44.34	-7,831.83	3,826.27	8,373.69	8,266.32	107.36	77.994	
10,075.00	9,959.38	17,110.00	9,859.74	22.16	117.19	-47.30	-7,831.83	3,826.27	8,353.45	8,242.20	111.25	75.088	
10,100.00	9,968.87	17,110.00	9,859.74	22.27	117.19	-50.66	-7,831.83	3,826.27	8,332.73	8,217.35	115.38	72.217	
10,125.00	9,977.13	17,110.00	9,859.74	22.39	117.19	-54.44	-7,831.83	3,826.27	8,311.58	8,191.87	119.71	69.428	
10,150.00	9,984.15	17,110.00	9,859.74	22.51	117.19	-58.67	-7,831.83	3,826.27	8,290.06	8,165.92	124.14	66.781	
10,175.00	9,989.90	17,110.00	9,859.74	22.64	117.19	-63.39	-7,831.83	3,826.27	8,268.21	8,139.72	128.49	64.347	
10,200.00	9,994.37	17,110.00	9,859.74	22.78	117.19	-68.58	-7,831.83	3,826.27	8,246.10	8,113.54	132.56	62.207	
10,225.00	9,997.55	17,110.00	9,859.74	22.93	117.19	-74.20	-7,831.83	3,826.27	8,223.79	8,087.74	136.05	60.445	
10,250.00	9,999.43	17,110.00	9,859.74	23.08	117.19	-80.17	-7,831.83	3,826.27	8,201.34	8,062.65	138.69	59.138	
10,273.37	10,000.00	17,110.00	9,859.74	23.23	117.19	-85.97	-7,831.83	3,826.27	8,180.27	8,040.13	140.14	58.371	
10,300.00	10,000.00	17,110.00	9,859.74	23.41	117.19	-85.97	-7,831.83	3,826.27	8,158.25	8,015.93	140.32	58.126	
10,400.00	10,000.00	17,110.00	9,859.74	24.15	117.19	-85.97	-7,831.83	3,826.27	8,066.21	7,925.15	141.06	57.183	
10,500.00	10,000.00	17,110.00	9,859.74	25.00	117.19	-85.97	-7,831.83	3,826.27	7,976.39	7,834.48	141.91	56.206	
10,600.00	10,000.00	17,110.00	9,859.74	25.96	117.19	-85.97	-7,831.83	3,826.27	7,886.83	7,743.96	142.87	55.204	
10,700.00	10,000.00	17,110.00	9,859.74	27.00	117.19	-85.97	-7,831.83	3,826.27	7,797.52	7,653.61	143.91	54.183	
10,800.00	10,000.00	17,110.00	9,859.74	28.13	117.19	-85.97	-7,831.83	3,826.27	7,708.47	7,563.43	145.03	53.149	
10,900.00	10,000.00	17,110.00	9,859.74	29.32	117.19	-85.97	-7,831.83	3,826.27	7,619.69	7,473.46	146.23	52.108 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 107H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3726.7 @ 3750.20usft (Original Well Elev)
Reference Site:	Thistle Unit	MD Reference:	3726.7 @ 3750.20usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	107H	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		Distance		Warning								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.70	0.70	0.00	0.00	89.66	0.30	50.00	50.00					
100.00	100.00	100.70	100.70	0.09	0.09	89.66	0.30	50.00	50.00	49.83	0.17	288.157		
200.00	200.00	200.70	200.70	0.31	0.31	89.66	0.30	50.00	50.00	49.38	0.62	80.252		
300.00	300.00	300.70	300.70	0.54	0.54	89.66	0.30	50.00	50.00	48.93	1.07	46.617		
400.00	400.00	400.70	400.70	0.76	0.76	89.66	0.30	50.00	50.00	48.48	1.52	32.850		
500.00	500.00	500.70	500.70	0.99	0.99	89.66	0.30	50.00	50.00	48.03	1.97	25.360		
600.00	600.00	600.70	600.70	1.21	1.21	89.66	0.30	50.00	50.00	47.58	2.42	20.651		
700.00	700.00	700.70	700.70	1.43	1.44	89.66	0.30	50.00	50.00	47.13	2.87	17.418		
800.00	800.00	800.70	800.70	1.66	1.66	89.66	0.30	50.00	50.00	46.68	3.32	15.059		
900.00	900.00	900.70	900.70	1.88	1.89	89.66	0.30	50.00	50.00	46.23	3.77	13.264		
1,000.00	1,000.00	1,000.70	1,000.70	2.11	2.11	89.66	0.30	50.00	50.00	45.78	4.22	11.850		
1,100.00	1,100.00	1,100.70	1,100.70	2.33	2.34	89.66	0.30	50.00	50.00	45.33	4.67	10.709		
1,200.00	1,200.00	1,200.70	1,200.70	2.56	2.56	89.66	0.30	50.00	50.00	44.88	5.12	9.789		
1,300.00	1,300.00	1,300.70	1,300.70	2.78	2.78	89.66	0.30	50.00	50.00	44.43	5.57	8.980		
1,400.00	1,400.00	1,400.70	1,400.70	3.01	3.01	89.66	0.30	50.00	50.00	43.98	6.02	8.309		
1,500.00	1,500.00	1,500.70	1,500.70	3.23	3.23	89.66	0.30	50.00	50.00	43.53	6.47	7.732		
1,600.00	1,600.00	1,600.70	1,600.70	3.46	3.46	89.66	0.30	50.00	50.00	43.08	6.92	7.229		
1,700.00	1,700.00	1,700.70	1,700.70	3.68	3.68	89.66	0.30	50.00	50.00	42.63	7.37	6.788		
1,800.00	1,800.00	1,800.70	1,800.70	3.91	3.91	89.66	0.30	50.00	50.00	42.19	7.82	6.398		
1,900.00	1,900.00	1,900.70	1,900.70	4.13	4.13	89.66	0.30	50.00	50.00	41.74	8.27	6.050		
2,000.00	2,000.00	2,000.70	2,000.70	4.36	4.36	89.66	0.30	50.00	50.00	41.29	8.71	5.738		
2,100.00	2,100.00	2,100.70	2,100.70	4.58	4.58	89.66	0.30	50.00	50.00	40.84	9.16	5.456		
2,200.00	2,200.00	2,200.70	2,200.70	4.81	4.81	89.66	0.30	50.00	50.00	40.39	9.61	5.201		
2,300.00	2,300.00	2,300.70	2,300.70	5.03	5.03	89.66	0.30	50.00	50.00	39.94	10.06	4.969		
2,400.00	2,400.00	2,400.70	2,400.70	5.26	5.26	89.66	0.30	50.00	50.00	39.49	10.51	4.756		
2,500.00	2,500.00	2,500.70	2,500.70	5.48	5.48	89.66	0.30	50.00	50.00	39.04	10.96	4.561		
2,600.00	2,600.00	2,600.70	2,600.70	5.71	5.71	89.66	0.30	50.00	50.00	38.59	11.41	4.382		
2,700.00	2,700.00	2,700.70	2,700.70	5.93	5.93	89.66	0.30	50.00	50.00	38.14	11.86	4.215		
2,800.00	2,800.00	2,800.70	2,800.70	6.15	6.16	89.66	0.30	50.00	50.00	37.69	12.31	4.062		
2,900.00	2,900.00	2,900.70	2,900.70	6.38	6.38	89.66	0.30	50.00	50.00	37.24	12.76	3.918		
3,000.00	3,000.00	3,000.70	3,000.70	6.60	6.61	89.66	0.30	50.00	50.00	36.79	13.21	3.785		
3,100.00	3,100.00	3,100.70	3,100.70	6.83	6.83	89.66	0.30	50.00	50.00	36.34	13.66	3.661		
3,200.00	3,200.00	3,200.70	3,200.70	7.05	7.06	89.66	0.30	50.00	50.00	35.89	14.11	3.544		
3,300.00	3,300.00	3,300.70	3,300.70	7.28	7.28	89.66	0.30	50.00	50.00	35.44	14.56	3.434		
3,400.00	3,400.00	3,400.70	3,400.70	7.50	7.50	89.66	0.30	50.00	50.00	34.99	15.01	3.332		
3,500.00	3,500.00	3,500.70	3,500.70	7.73	7.73	89.66	0.30	50.00	50.00	34.54	15.46	3.235		
3,600.00	3,600.00	3,600.70	3,600.70	7.95	7.95	89.66	0.30	50.00	50.00	34.09	15.91	3.143		
3,700.00	3,700.00	3,700.70	3,700.70	8.18	8.18	89.66	0.30	50.00	50.00	33.64	16.36	3.057		
3,800.00	3,800.00	3,800.70	3,800.70	8.40	8.40	89.66	0.30	50.00	50.00	33.19	16.81	2.975		
3,900.00	3,900.00	3,900.70	3,900.70	8.63	8.63	89.66	0.30	50.00	50.00	32.75	17.26	2.898		
4,000.00	4,000.00	4,000.70	4,000.70	8.85	8.85	89.66	0.30	50.00	50.00	32.30	17.71	2.824		
4,100.00	4,100.00	4,100.70	4,100.70	9.08	9.08	89.66	0.30	50.00	50.00	31.85	18.15	2.754		
4,200.00	4,200.00	4,200.70	4,200.70	9.30	9.30	89.66	0.30	50.00	50.00	31.40	18.60	2.688		
4,300.00	4,300.00	4,300.70	4,300.70	9.53	9.53	89.66	0.30	50.00	50.00	30.95	19.05	2.624		
4,400.00	4,400.00	4,400.70	4,400.70	9.75	9.75	89.66	0.30	50.00	50.00	30.50	19.50	2.564		
4,500.00	4,500.00	4,500.70	4,500.70	9.98	9.98	89.66	0.30	50.00	50.00	30.05	19.95	2.506		
4,600.00	4,600.00	4,600.70	4,600.70	10.20	10.20	89.66	0.30	50.00	50.00	29.60	20.40	2.451		
4,700.00	4,700.00	4,700.70	4,700.70	10.43	10.43	89.66	0.30	50.00	50.00	29.15	20.85	2.398		
4,800.00	4,800.00	4,800.70	4,800.70	10.65	10.65	89.66	0.30	50.00	50.00	28.70	21.30	2.347		
4,900.00	4,900.00	4,900.70	4,900.70	10.87	10.88	89.66	0.30	50.00	50.00	28.25	21.75	2.299		
5,000.00	5,000.00	5,000.70	5,000.70	11.10	11.10	89.66	0.30	50.00	50.00	27.80	22.20	2.252		
5,100.00	5,100.00	5,100.70	5,100.70	11.32	11.33	89.66	0.30	50.00	50.00	27.35	22.65	2.208		

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: 107H
 Well Error: 0.00 usft
 Reference Wellbore: OH
 Reference Design: Plan #1

Local Co-ordinate Reference: Well 107H
 TVD Reference: 3726.7 @ 3750.20usft (Original Well Elev)
 MD Reference: 3726.7 @ 3750.20usft (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		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
							+N-S (usft)	+E-W (usft)							
5,200.00	5,199.98	5,200.66	5,200.65	11.54	11.55	-1.93		1.63	49.99	48.27	25.20	23.07	2.092		
5,300.00	5,299.92	5,300.44	5,300.34	11.73	11.77	-7.09		5.56	49.96	45.07	21.58	23.49	1.919		
5,400.00	5,399.86	5,400.00	5,399.69	11.93	12.00	-16.34		12.07	49.91	42.93	19.02	23.91	1.796		
5,447.70	5,447.53	5,447.32	5,446.85	12.03	12.11	-22.11		16.05	49.88	42.86	16.54	24.11	1.769 CC, ES		
5,500.00	5,499.80	5,499.39	5,498.72	12.13	12.22	-28.86		20.59	49.85	42.94	18.80	24.34	1.764 SF		
5,600.00	5,599.74	5,598.95	5,597.90	12.34	12.45	-40.80		29.27	49.79	45.00	20.23	24.77	1.817		
5,700.00	5,699.68	5,698.51	5,697.08	12.54	12.67	-51.09		37.95	49.72	48.81	23.62	25.20	1.937		
5,800.00	5,799.61	5,798.06	5,796.25	12.74	12.89	-59.83		46.62	49.66	54.02	28.39	25.63	2.108		
5,900.00	5,899.55	5,897.62	5,895.43	12.95	13.12	-66.91		55.30	49.60	60.25	34.19	28.06	2.312		
6,000.00	5,999.49	5,997.18	5,994.61	13.15	13.35	-72.60		63.98	49.53	67.22	40.73	28.49	2.537		
6,100.00	6,099.43	6,096.73	6,093.79	13.36	13.58	-77.18		72.65	49.47	74.73	47.81	28.93	2.775		
6,200.00	6,199.37	6,196.29	6,192.96	13.57	13.82	-80.92		81.33	49.41	82.83	55.27	27.36	3.020		
6,300.00	6,299.31	6,295.85	6,292.14	13.78	14.05	-83.99		90.01	49.34	90.82	63.03	27.79	3.268		
6,400.00	6,399.25	6,395.40	6,391.32	13.98	14.29	-86.55		98.68	49.28	99.22	71.00	28.22	3.515		
6,500.00	6,499.19	6,494.96	6,490.50	14.19	14.52	-88.70		107.36	49.22	107.79	79.13	28.66	3.761		
6,600.00	6,599.16	6,594.55	6,589.71	14.40	14.76	-90.03		116.04	49.15	116.48	87.40	29.09	4.005		
6,633.33	6,632.49	6,627.76	6,622.79	14.46	14.84	-0.15		118.93	49.13	119.39	90.16	29.22	4.085		
6,700.00	6,699.16	6,694.17	6,688.95	14.59	15.00	-0.16		124.72	49.09	125.20	95.69	29.51	4.243		
6,800.00	6,799.16	6,793.79	6,788.19	14.81	15.24	-0.18		133.40	49.02	133.91	103.96	29.96	4.470		
6,900.00	6,899.16	6,893.41	6,887.43	15.04	15.48	-0.19		142.09	48.96	142.63	112.22	30.41	4.691		
7,000.00	6,999.16	6,993.03	6,986.67	15.28	15.73	-0.21		150.77	48.90	151.34	120.49	30.85	4.905		
7,100.00	7,099.16	7,092.65	7,085.91	15.48	15.97	-0.22		159.45	48.83	160.06	128.76	31.30	5.113		
7,200.00	7,199.16	7,192.27	7,185.15	15.71	16.21	-0.23		168.13	48.77	168.78	137.02	31.75	5.315		
7,300.00	7,299.16	7,291.89	7,284.39	15.93	16.46	-0.24		176.81	48.71	177.49	145.29	32.20	5.511		
7,400.00	7,399.16	7,391.51	7,383.63	16.15	16.70	-0.25		185.50	48.64	186.21	153.55	32.66	5.702		
7,500.00	7,499.16	7,494.23	7,486.00	16.38	16.94	-0.25		193.97	48.58	194.46	161.37	33.09	5.876		
7,600.00	7,599.16	7,599.50	7,591.10	16.60	17.13	-0.26		200.02	48.54	200.21	166.72	33.50	5.977		
7,700.00	7,699.16	7,705.04	7,696.58	16.82	17.32	-0.26		203.18	48.51	203.21	169.31	33.90	5.994		
7,800.00	7,799.16	7,808.32	7,799.86	17.05	17.51	-0.26		203.68	48.51	203.68	169.37	34.31	5.936		
7,900.00	7,899.16	7,908.32	7,899.86	17.27	17.73	-0.26		203.68	48.51	203.68	168.92	34.76	5.860		
8,000.00	7,999.16	8,008.32	7,999.86	17.49	17.95	-0.26		203.68	48.51	203.68	168.47	35.21	5.785		
8,100.00	8,099.16	8,108.32	8,099.86	17.72	18.17	-0.26		203.68	48.51	203.68	168.03	35.65	5.713		
8,200.00	8,199.16	8,208.32	8,199.86	17.94	18.39	-0.26		203.68	48.51	203.68	167.58	36.10	5.642		
8,300.00	8,299.16	8,308.32	8,299.86	18.17	18.61	-0.26		203.68	48.51	203.68	167.13	36.55	5.573		
8,400.00	8,399.16	8,408.32	8,399.86	18.39	18.83	-0.26		203.68	48.51	203.68	166.68	37.00	5.505		
8,500.00	8,499.16	8,508.32	8,499.86	18.61	19.05	-0.26		203.68	48.51	203.68	166.24	37.44	5.440		
8,600.00	8,599.16	8,608.32	8,599.86	18.84	19.27	-0.26		203.68	48.51	203.68	165.79	37.89	5.375		
8,700.00	8,699.16	8,708.32	8,699.86	19.06	19.49	-0.26		203.68	48.51	203.68	165.34	38.34	5.313		
8,800.00	8,799.16	8,808.32	8,799.86	19.28	19.71	-0.26		203.68	48.51	203.68	164.89	38.79	5.251		
8,900.00	8,899.16	8,908.32	8,899.86	19.51	19.93	-0.26		203.68	48.51	203.68	164.44	39.23	5.191		
9,000.00	8,999.16	9,008.32	8,999.86	19.73	20.15	-0.26		203.68	48.51	203.68	164.00	39.68	5.133		
9,100.00	9,099.16	9,108.32	9,099.86	19.96	20.37	-0.26		203.68	48.51	203.68	163.55	40.13	5.075		
9,200.00	9,199.16	9,208.32	9,199.86	20.18	20.59	-0.26		203.68	48.51	203.68	163.10	40.58	5.019		
9,300.00	9,299.16	9,308.32	9,299.86	20.40	20.82	-0.26		203.68	48.51	203.68	162.65	41.03	4.965		
9,400.00	9,399.16	9,408.32	9,399.86	20.63	21.04	-0.26		203.68	48.51	203.68	162.20	41.47	4.911		
9,500.00	9,499.16	9,508.32	9,499.86	20.85	21.26	-0.26		203.68	48.51	203.68	161.76	41.92	4.859		
9,523.37	9,522.53	9,531.69	9,523.23	20.90	21.31	-0.26		203.68	48.51	203.68	161.65	42.03	4.846		
9,525.00	9,524.16	9,533.32	9,524.86	20.91	21.31	-179.84		203.68	48.51	203.68	161.65	42.03	4.846		
9,550.00	9,549.15	9,558.30	9,549.85	20.95	21.37	-179.84		203.68	48.51	204.42	162.35	42.07	4.859		
9,575.00	9,574.06	9,583.22	9,574.76	20.99	21.42	-179.84		203.68	48.51	206.47	164.45	42.02	4.914		
9,600.00	9,598.83	9,607.99	9,599.53	21.04	21.48	-179.84		203.68	48.51	209.81	167.93	41.89	5.009		
9,625.00	9,623.40	9,632.55	9,624.10	21.08	21.53	-179.84		203.68	48.51	214.45	172.78	41.67	5.147		

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: 107H
 Well Error: 0.00 usft
 Reference Wellbore: OH
 Reference Design: Plan #1

Local Co-ordinate Reference: Well 107H
 TVD Reference: 3726.7 @ 3750.20usft (Original Well Elev)
 MD Reference: 3726.7 @ 3750.20usft (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		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)					
9,550.00	9,547.68	9,556.84	9,548.38	21.13	21.59	-179.84	203.68	48.51	220.37	179.00	41.37	5.327	
9,575.00	9,571.63	9,580.78	9,572.33	21.17	21.64	-179.85	203.68	48.51	227.55	186.56	40.99	5.552	
9,700.00	9,695.16	9,704.32	9,695.86	21.22	21.69	-179.85	203.68	48.51	235.98	195.45	40.53	5.822	
9,725.00	9,718.22	9,727.38	9,718.92	21.26	21.74	-179.85	203.68	48.51	245.82	205.82	40.00	6.141	
9,750.00	9,740.75	9,749.90	9,741.45	21.31	21.79	-179.86	203.68	48.51	256.46	217.07	39.39	6.510	
9,775.00	9,762.67	9,771.83	9,763.37	21.35	21.84	-179.86	203.68	48.51	268.46	229.74	38.72	6.934	
9,800.00	9,783.94	9,793.10	9,784.64	21.40	21.89	-179.86	203.68	48.51	281.80	243.61	37.98	7.414	
9,825.00	9,804.50	9,813.65	9,805.20	21.44	21.93	-179.86	203.68	48.51	295.82	258.63	37.19	7.954	
9,850.00	9,824.28	9,833.43	9,824.98	21.49	21.98	-179.86	203.68	48.51	311.11	274.76	36.34	8.560	
9,875.00	9,843.23	9,852.38	9,843.93	21.54	22.02	-179.86	203.68	48.51	327.41	291.95	35.45	9.235	
9,900.00	9,861.30	9,870.46	9,862.00	21.59	22.06	-179.86	203.68	48.51	344.88	310.15	34.53	9.983	
9,925.00	9,878.45	9,887.60	9,879.15	21.65	22.10	-179.86	203.68	48.51	362.87	329.30	33.57	10.810	
9,950.00	9,894.62	9,903.77	9,895.32	21.72	22.13	-179.86	203.68	48.51	381.93	349.34	32.59	11.719	
9,975.00	9,909.77	9,918.92	9,910.47	21.80	22.17	-179.86	203.68	48.51	401.81	370.21	31.61	12.713	
10,000.00	9,923.85	9,933.01	9,924.55	21.88	22.20	-179.86	203.68	48.51	422.46	391.84	30.62	13.796	
10,025.00	9,936.84	9,946.00	9,937.54	21.96	22.23	-179.85	203.68	48.51	443.82	414.17	29.65	14.966	
10,050.00	9,948.69	9,957.85	9,949.39	22.06	22.25	-179.84	203.68	48.51	465.83	437.11	28.72	16.222	
10,075.00	9,959.38	9,968.54	9,960.08	22.16	22.28	-179.83	203.68	48.51	488.43	460.61	27.82	17.557	
10,100.00	9,968.87	9,978.02	9,969.57	22.27	22.30	-179.82	203.68	48.51	511.55	484.57	26.98	18.958	
10,125.00	9,977.13	9,986.29	9,977.83	22.39	22.32	-179.80	203.68	48.51	535.15	508.92	26.22	20.406	
10,150.00	9,984.15	9,993.30	9,984.85	22.51	22.33	-179.77	203.68	48.51	559.14	533.58	25.56	21.877	
10,175.00	9,989.90	9,999.06	9,990.60	22.64	22.35	-179.72	203.68	48.51	583.46	558.46	25.00	23.339	
10,200.00	9,994.37	10,003.53	9,995.07	22.78	22.36	-179.65	203.68	48.51	608.06	583.49	24.57	24.753	
10,225.00	9,997.55	11,039.37	10,603.00	22.93	24.59	-179.95	-429.16	53.15	604.74	578.60	26.14	23.135	
10,250.00	9,999.43	11,064.30	10,603.00	23.08	24.74	-179.95	-454.08	53.33	602.87	576.79	26.08	23.119	
10,273.37	10,000.00	11,087.66	10,603.00	23.23	24.88	-179.95	-477.45	53.50	602.30	576.15	26.15	23.033	
10,273.37	10,000.00	11,087.66	10,603.00	23.23	24.88	-179.95	-477.45	53.50	602.30	576.15	26.15	23.033	
10,300.00	10,000.00	11,114.29	10,603.00	23.41	25.06	-179.95	-504.07	53.70	602.30	576.04	26.26	22.938	
10,400.00	10,000.00	11,214.29	10,603.00	24.15	25.81	-179.95	-604.07	54.43	602.30	575.59	26.71	22.549	
10,500.00	10,000.00	11,314.29	10,603.00	25.00	26.66	-179.95	-704.07	55.16	602.30	575.06	27.24	22.114	
10,600.00	10,000.00	11,414.29	10,603.00	25.96	27.61	-179.95	-804.07	55.90	602.30	574.47	27.83	21.643	
10,700.00	10,000.00	11,514.29	10,603.00	27.00	28.64	-179.95	-904.06	56.63	602.30	573.81	28.49	21.144	
10,800.00	10,000.00	11,614.29	10,603.00	28.13	29.75	-179.95	-1,004.06	57.36	602.30	573.10	29.20	20.625	
10,900.00	10,000.00	11,714.29	10,603.00	29.32	30.92	-179.95	-1,104.06	58.10	602.30	572.32	29.97	20.095	

LEAM Drilling Systems LLC

Anticollision Report

Company: DEVON ENERGY
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 MD Reference: 3726.7 @ 3750.20usft (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		Distance		Warning							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N-S (usft)	Offset Wellbore Centre +E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	0.00	0.00	0.00	0.00	-164.49	-5,183.51	-1,438.02	5,379.46				
100.00	100.00	66.27	66.27	0.09	0.05	-164.49	-5,183.44	-1,438.05	5,379.23	5,379.10	0.13	N/A	
173.77	173.77	129.44	129.44	0.25	0.12	-164.49	-5,183.30	-1,438.16	5,379.12	5,378.75	0.37	N/A	
200.00	200.00	150.00	150.00	0.31	0.16	-164.49	-5,183.31	-1,438.20	5,379.15	5,378.68	0.47	N/A	
300.00	300.00	259.93	259.93	0.54	0.35	-164.49	-5,183.14	-1,438.47	5,379.05	5,378.17	0.88	6,101.345	
310.96	310.96	267.76	267.76	0.56	0.36	-164.49	-5,183.13	-1,438.49	5,379.04	5,378.12	0.92	5,847.169	
400.00	400.00	351.67	351.67	0.76	0.51	-164.49	-5,183.16	-1,438.85	5,379.17	5,377.90	1.27	4,245.670	
500.00	500.00	435.59	435.59	0.99	0.85	-164.48	-5,183.10	-1,439.25	5,379.25	5,377.62	1.84	3,282.628	
600.00	600.00	531.42	531.42	1.21	0.82	-164.48	-5,183.41	-1,439.77	5,379.71	5,377.68	2.03	2,848.723	
700.00	700.00	632.01	632.01	1.43	1.00	-164.47	-5,183.71	-1,440.26	5,380.14	5,377.70	2.43	2,212.460	
800.00	800.00	738.23	738.22	1.66	1.18	-164.47	-5,184.04	-1,440.76	5,380.55	5,377.71	2.84	1,892.998	
900.00	900.00	853.89	853.88	1.88	1.39	-164.46	-5,184.08	-1,441.29	5,380.70	5,377.43	3.27	1,645.587	
1,000.00	1,000.00	966.26	966.25	2.11	1.58	-164.46	-5,183.84	-1,441.79	5,380.81	5,376.92	3.69	1,457.547	
1,060.04	1,060.04	1,016.85	1,016.84	2.24	1.67	-164.45	-5,183.69	-1,442.11	5,380.55	5,376.64	3.92	1,374.280	
1,100.00	1,100.00	1,049.40	1,049.39	2.33	1.73	-164.45	-5,183.65	-1,442.37	5,380.59	5,376.52	4.06	1,324.583	
1,200.00	1,200.00	1,137.45	1,137.43	2.56	1.88	-164.44	-5,183.73	-1,443.29	5,380.94	5,376.50	4.44	1,211.583	
1,300.00	1,300.00	1,227.24	1,227.22	2.78	2.04	-164.43	-5,183.89	-1,444.28	5,381.40	5,376.58	4.82	1,115.693	
1,400.00	1,400.00	1,322.45	1,322.42	3.01	2.21	-164.42	-5,184.20	-1,445.36	5,382.02	5,376.81	5.21	1,032.037	
1,500.00	1,500.00	1,437.15	1,437.11	3.23	2.41	-164.41	-5,184.36	-1,446.86	5,382.50	5,376.88	5.64	954.207	
1,600.00	1,600.00	1,539.78	1,539.72	3.46	2.59	-164.39	-5,184.26	-1,448.51	5,382.84	5,376.80	6.05	890.367	
1,700.00	1,700.00	1,645.58	1,645.51	3.68	2.77	-164.37	-5,184.17	-1,450.26	5,383.21	5,376.76	6.46	833.839	
1,800.00	1,800.00	1,742.28	1,742.20	3.91	2.94	-164.35	-5,183.89	-1,451.86	5,383.38	5,376.53	6.85	785.855	
1,900.00	1,900.00	1,844.79	1,844.70	4.13	3.12	-164.34	-5,183.61	-1,453.49	5,383.55	5,376.29	7.25	742.055	
2,000.00	2,000.00	1,956.90	1,956.79	4.36	3.32	-164.32	-5,183.24	-1,455.23	5,383.65	5,375.98	7.68	701.331	
2,100.00	2,100.00	2,072.54	2,072.42	4.58	3.52	-164.30	-5,182.62	-1,456.62	5,383.45	5,375.35	8.10	664.305	
2,200.00	2,200.00	2,179.32	2,179.19	4.81	3.71	-164.28	-5,181.87	-1,457.66	5,383.03	5,374.52	8.52	632.117	
2,300.00	2,300.00	2,278.60	2,278.47	5.03	3.88	-164.26	-5,181.16	-1,458.56	5,382.60	5,373.68	8.91	603.788	
2,400.00	2,400.00	2,379.58	2,379.44	5.26	4.06	-164.26	-5,180.41	-1,459.58	5,382.15	5,372.83	9.32	577.696	
2,500.00	2,500.00	2,475.42	2,475.27	5.48	4.23	-164.25	-5,179.75	-1,460.70	5,381.80	5,372.09	9.71	554.284	
2,600.00	2,600.00	2,578.05	2,577.89	5.71	4.41	-164.24	-5,179.00	-1,461.82	5,381.40	5,371.28	10.11	532.063	
2,700.00	2,700.00	2,683.30	2,683.13	5.93	4.59	-164.22	-5,178.15	-1,463.03	5,380.93	5,370.40	10.52	511.320	
2,800.00	2,800.00	2,793.45	2,793.28	6.15	4.79	-164.21	-5,177.14	-1,464.26	5,380.35	5,369.41	10.94	491.738	
2,900.00	2,900.00	2,894.94	2,894.75	6.38	4.98	-164.19	-5,176.13	-1,465.25	5,379.66	5,368.31	11.34	474.221	
3,000.00	3,000.00	3,007.37	3,007.17	6.60	5.16	-164.18	-5,174.82	-1,466.26	5,378.77	5,367.01	11.77	457.145	
3,100.00	3,100.00	3,132.34	3,132.12	6.83	5.38	-164.16	-5,173.06	-1,467.26	5,377.64	5,365.43	12.21	440.438	
3,200.00	3,200.00	3,266.90	3,266.65	7.05	5.62	-164.15	-5,170.50	-1,468.04	5,375.99	5,363.32	12.67	424.299	
3,300.00	3,300.00	3,407.57	3,407.27	7.28	5.86	-164.14	-5,166.98	-1,468.28	5,373.65	5,360.51	13.14	408.899	
3,400.00	3,400.00	3,600.70	3,600.28	7.50	6.20	-164.14	-5,160.07	-1,466.39	5,369.91	5,356.20	13.71	391.780	
3,500.00	3,500.00	3,711.93	3,711.38	7.73	6.40	-164.14	-5,155.26	-1,464.41	5,365.26	5,351.13	14.13	379.756	
3,600.00	3,600.00	3,785.33	3,784.70	7.95	6.53	-164.15	-5,152.12	-1,463.01	5,360.66	5,346.18	14.48	370.129	
3,700.00	3,700.00	3,849.30	3,848.62	8.18	6.84	-164.15	-5,149.85	-1,461.90	5,356.76	5,341.94	14.82	361.423	
3,800.00	3,800.00	3,939.70	3,938.96	8.40	6.80	-164.16	-5,146.96	-1,460.60	5,353.29	5,338.09	15.21	352.050	
3,900.00	3,900.00	4,031.15	4,030.36	8.63	6.97	-164.16	-5,144.07	-1,459.39	5,349.89	5,334.30	15.59	343.098	
4,000.00	4,000.00	4,121.60	4,120.76	8.85	7.13	-164.17	-5,141.46	-1,458.18	5,346.75	5,330.78	15.98	334.638	
4,100.00	4,100.00	4,219.60	4,218.71	9.08	7.30	-164.17	-5,138.80	-1,456.69	5,343.73	5,327.36	16.38	326.319	
4,200.00	4,200.00	4,313.46	4,312.51	9.30	7.46	-164.19	-5,136.61	-1,454.11	5,340.74	5,323.97	16.77	318.557	
4,300.00	4,300.00	4,389.00	4,387.96	9.53	7.80	-164.23	-5,135.50	-1,450.66	5,338.07	5,320.95	17.12	311.774	
4,400.00	4,400.00	4,471.01	4,469.83	9.75	7.74	-164.27	-5,134.91	-1,445.80	5,335.77	5,318.28	17.49	305.108	
4,500.00	4,500.00	4,549.80	4,548.46	9.98	7.87	-164.33	-5,134.76	-1,440.86	5,333.88	5,316.03	17.85	298.842	
4,600.00	4,600.00	4,631.03	4,629.52	10.20	8.01	-164.38	-5,134.84	-1,435.61	5,332.25	5,314.03	18.21	292.771	
4,700.00	4,700.00	4,708.86	4,707.16	10.43	8.15	-164.44	-5,135.49	-1,430.14	5,331.14	5,312.57	18.57	287.056	
4,800.00	4,800.00	4,796.32	4,794.35	10.65	8.30	-164.51	-5,136.66	-1,423.31	5,330.34	5,311.39	18.95	281.327	

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: 107H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Plan #1

Local Co-ordinate Reference: Well 107H
TVD Reference: 3726.7 @ 3750.20usft (Original Well Elev)
MD Reference: 3726.7 @ 3750.20usft (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		Distance		Warning								
Measured Depth (usft)	Vertical (usft)	Measured Depth (usft)	Vertical (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		
4,900.00	4,900.00	4,885.17	4,882.87	10.87	8.45	-164.59	-5,138.12	-1,415.89	5,329.70	5,310.37	19.32	275.797		
5,000.00	5,000.00	4,959.86	4,957.30	11.10	8.58	-164.66	-5,139.60	-1,409.89	5,329.47	5,309.79	19.68	270.835		
5,062.08	5,062.08	5,021.29	5,018.57	11.24	8.68	-164.71	-5,140.75	-1,405.55	5,329.43	5,309.51	19.92	267.499		
5,100.00	5,100.00	5,050.71	5,047.93	11.32	8.74	-164.73	-5,141.29	-1,403.66	5,329.47	5,309.41	20.06	265.888		
5,200.00	5,198.98	5,140.51	5,137.54	11.54	8.89	105.21	-5,143.00	-1,398.11	5,330.14	5,309.74	20.40	261.259		
5,300.00	5,299.92	5,236.85	5,233.75	11.73	9.06	105.19	-5,144.68	-1,393.49	5,331.48	5,310.71	20.77	256.709		
5,400.00	5,399.86	5,326.43	5,323.22	11.93	9.21	105.18	-5,146.24	-1,389.35	5,332.88	5,311.75	21.12	252.446		
5,500.00	5,499.80	5,428.58	5,425.23	12.13	9.39	105.16	-5,148.16	-1,384.84	5,334.44	5,312.94	21.50	248.062		
5,600.00	5,598.74	5,519.13	5,515.72	12.34	9.55	105.15	-5,149.79	-1,381.08	5,336.01	5,314.15	21.87	244.043		
5,700.00	5,698.68	5,517.89	5,514.38	12.54	9.72	105.14	-5,151.66	-1,377.30	5,337.75	5,315.51	22.24	239.994		
5,800.00	5,798.61	5,719.56	5,715.96	12.74	9.90	105.13	-5,153.50	-1,373.41	5,339.41	5,316.79	22.62	236.013		
5,900.00	5,898.55	5,816.77	5,813.09	12.95	10.07	105.13	-5,155.27	-1,369.89	5,341.13	5,318.13	23.00	232.234		
6,000.00	5,998.49	5,821.89	5,818.14	13.15	10.26	105.12	-5,157.04	-1,366.33	5,342.78	5,319.39	23.39	228.430		
6,100.00	6,098.43	6,010.93	6,007.12	13.36	10.41	105.13	-5,158.44	-1,363.75	5,344.46	5,320.71	23.75	225.011		
6,200.00	6,198.37	6,114.50	6,110.85	13.57	10.60	105.13	-5,160.12	-1,361.07	5,346.26	5,322.12	24.14	221.457		
6,300.00	6,298.31	6,216.13	6,212.24	13.78	10.77	105.14	-5,161.84	-1,358.65	5,348.00	5,323.47	24.53	218.037		
6,400.00	6,398.25	6,351.64	6,347.70	13.98	11.01	105.15	-5,163.35	-1,355.54	5,349.57	5,324.60	24.97	214.201		
6,500.00	6,498.19	6,456.50	6,452.53	14.19	11.20	105.16	-5,163.93	-1,353.17	5,350.42	5,325.05	25.37	210.914		
6,600.00	6,598.16	6,536.23	6,532.24	14.40	11.33	105.17	-5,164.49	-1,351.43	5,351.12	5,325.41	25.71	208.138		
6,633.33	6,632.49	6,552.10	6,548.11	14.46	11.36	-164.83	-5,164.66	-1,351.10	5,351.35	5,325.55	25.80	207.426		
6,700.00	6,698.16	6,611.58	6,607.57	14.59	11.47	-164.84	-5,165.45	-1,349.86	5,351.85	5,325.81	26.04	205.555		
6,800.00	6,798.16	6,713.17	6,709.12	14.81	11.65	-164.87	-5,167.10	-1,347.65	5,352.85	5,326.41	26.44	202.472		
6,900.00	6,898.16	6,821.20	6,817.12	15.04	11.84	-164.90	-5,168.57	-1,345.40	5,353.61	5,326.76	26.85	199.389		
7,000.00	6,998.16	6,915.93	6,911.82	15.26	12.00	-164.92	-5,169.78	-1,343.67	5,354.37	5,327.13	27.24	196.568		
7,100.00	7,098.16	7,005.87	7,001.74	15.48	12.16	-164.94	-5,170.99	-1,342.31	5,355.29	5,327.67	27.62	193.891		
7,200.00	7,198.16	7,095.92	7,091.78	15.71	12.32	-164.95	-5,172.35	-1,341.11	5,356.39	5,328.39	28.00	191.292		
7,300.00	7,298.16	7,194.75	7,190.58	15.93	12.49	-164.97	-5,173.94	-1,339.90	5,357.63	5,329.23	28.40	188.864		
7,400.00	7,398.16	7,284.35	7,280.17	16.15	12.65	-164.98	-5,175.39	-1,338.91	5,358.91	5,330.13	28.78	186.215		
7,500.00	7,498.16	7,374.75	7,370.54	16.38	12.81	-165.00	-5,177.08	-1,337.94	5,360.44	5,331.28	29.16	183.829		
7,600.00	7,598.16	7,474.44	7,470.21	16.60	12.99	-165.01	-5,179.02	-1,336.93	5,362.06	5,332.50	29.56	181.408		
7,700.00	7,698.16	7,577.98	7,573.71	16.82	13.17	-165.03	-5,181.04	-1,335.68	5,363.62	5,333.66	29.96	179.007		
7,800.00	7,798.16	7,681.45	7,677.17	17.05	13.35	-165.05	-5,183.04	-1,334.17	5,365.12	5,334.75	30.37	176.668		
7,900.00	7,898.16	7,770.53	7,766.22	17.27	13.51	-165.07	-5,184.80	-1,332.91	5,366.67	5,335.92	30.75	174.535		
8,000.00	7,998.16	7,869.92	7,865.57	17.49	13.68	-165.09	-5,186.97	-1,331.43	5,368.39	5,337.24	31.15	172.358		
8,100.00	8,098.16	7,976.18	7,973.80	17.72	13.86	-165.11	-5,189.18	-1,329.88	5,370.00	5,338.44	31.56	170.149		
8,200.00	8,198.16	8,079.80	8,075.40	17.94	14.06	-165.13	-5,191.15	-1,328.44	5,371.50	5,339.54	31.96	168.055		
8,300.00	8,298.16	8,195.16	8,190.72	18.17	14.26	-165.16	-5,193.16	-1,326.95	5,372.86	5,340.47	32.39	165.886		
8,400.00	8,398.16	8,292.30	8,287.85	18.39	14.43	-165.17	-5,194.85	-1,325.99	5,374.09	5,341.31	32.78	163.930		
8,500.00	8,498.16	8,329.70	8,325.24	18.61	14.50	-165.17	-5,195.22	-1,325.74	5,375.74	5,342.67	33.07	162.546		
8,600.00	8,598.16	8,360.00	8,355.52	18.84	14.52	-165.18	-5,196.23	-1,325.43	5,378.77	5,345.29	33.48	160.856		
8,700.00	8,698.16	8,360.00	8,355.52	19.06	14.52	-165.18	-5,196.23	-1,325.43	5,383.43	5,349.72	33.70	159.727		
8,800.00	8,798.16	8,392.00	8,387.44	19.28	14.53	-165.19	-5,198.33	-1,324.54	5,389.46	5,355.53	33.93	158.831		
8,900.00	8,898.16	8,407.05	8,402.41	19.51	14.53	-165.21	-5,199.69	-1,323.88	5,397.08	5,362.92	34.16	157.997		
9,000.00	8,998.16	8,424.00	8,419.24	19.73	14.53	-165.22	-5,201.55	-1,322.98	5,406.27	5,371.88	34.39	157.218		
9,100.00	9,098.16	8,456.00	8,450.83	19.96	14.53	-165.26	-5,205.88	-1,320.36	5,416.99	5,382.36	34.62	156.462		
9,200.00	9,198.16	8,456.00	8,450.83	20.18	14.53	-165.26	-5,205.88	-1,320.36	5,429.07	5,394.22	34.85	155.803		
9,300.00	9,298.16	8,472.02	8,466.54	20.40	14.53	-165.28	-5,208.50	-1,318.66	5,442.74	5,407.66	35.08	155.163		
9,400.00	9,398.16	8,488.00	8,482.13	20.63	14.53	-165.31	-5,211.54	-1,316.87	5,458.07	5,422.76	35.31	154.578		
9,500.00	9,498.16	8,488.00	8,482.13	20.85	14.53	-165.31	-5,211.54	-1,316.87	5,474.97	5,439.44	35.53	154.079		
9,523.37	9,522.53	8,488.00	8,482.13	20.90	14.53	-165.31	-5,211.54	-1,316.87	5,479.18	5,443.59	35.59	153.971		
9,525.00	9,524.16	8,488.00	8,482.13	20.91	14.53	15.11	-5,211.54	-1,316.87	5,479.47	5,444.06	35.41	154.754		
9,550.00	9,549.15	8,488.00	8,482.13	20.95	14.53	14.98	-5,211.54	-1,316.87	5,483.38	5,447.87	35.51	154.405		

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 107H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3726.7 @ 3750.20usft (Original Well Elev)
Reference Site:	Thistle Unit	MD Reference:	3726.7 @ 3750.20usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	107H	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		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	
9,575.00	9,574.06	8,488.00	8,482.13	20.99	14.53	14.90	-5,211.54	-1,316.87	5,486.15	5,450.44	35.71	153.842	
9,600.00	9,598.83	8,488.00	8,482.13	21.04	14.53	14.85	-5,211.54	-1,316.87	5,487.77	5,451.94	35.83	153.175	
9,625.00	9,623.40	8,503.02	8,496.88	21.08	14.54	14.81	-5,214.82	-1,315.09	5,488.01	5,452.14	35.87	152.994	
9,650.00	9,647.68	8,505.26	8,498.84	21.13	14.54	14.83	-5,215.35	-1,314.81	5,487.25	5,451.41	35.84	153.099	
9,675.00	9,671.83	8,520.00	8,512.98	21.17	14.54	14.88	-5,219.06	-1,312.92	5,485.50	5,449.76	35.74	153.486	
9,700.00	9,695.16	8,520.00	8,512.98	21.22	14.54	14.97	-5,219.06	-1,312.92	5,482.38	5,448.81	35.57	154.149	
9,725.00	9,718.22	8,520.00	8,512.98	21.26	14.54	15.11	-5,219.06	-1,312.92	5,478.12	5,442.80	35.32	155.091	
9,750.00	9,740.75	8,520.00	8,512.98	21.31	14.54	15.28	-5,219.06	-1,312.92	5,472.73	5,437.72	35.01	156.311	
9,775.00	9,762.67	8,520.00	8,512.98	21.35	14.54	15.50	-5,219.06	-1,312.92	5,466.22	5,431.58	34.84	157.808	
9,800.00	9,783.94	8,520.00	8,512.98	21.40	14.54	15.76	-5,219.06	-1,312.92	5,458.61	5,424.40	34.21	159.578	
9,825.00	9,804.50	8,520.00	8,512.98	21.44	14.54	16.06	-5,219.06	-1,312.92	5,449.90	5,416.18	33.72	161.616	
9,850.00	9,824.28	8,520.00	8,512.98	21.49	14.54	16.42	-5,219.06	-1,312.92	5,440.13	5,406.94	33.19	163.913	
9,875.00	9,843.23	8,520.00	8,512.98	21.54	14.54	16.83	-5,219.06	-1,312.92	5,429.31	5,396.70	32.62	166.452	
9,900.00	9,861.30	8,520.00	8,512.98	21.59	14.54	17.30	-5,219.06	-1,312.92	5,417.47	5,385.45	32.02	169.210	
9,925.00	9,878.45	8,520.00	8,512.98	21.65	14.54	17.85	-5,219.06	-1,312.92	5,404.63	5,373.23	31.40	172.148	
9,950.00	9,894.82	8,520.00	8,512.98	21.72	14.54	18.47	-5,219.06	-1,312.92	5,390.81	5,360.04	30.77	175.210	
9,975.00	9,909.77	8,520.00	8,512.98	21.80	14.54	19.17	-5,219.06	-1,312.92	5,376.05	5,345.91	30.15	178.317	
10,000.00	9,923.85	8,534.76	8,526.99	21.88	14.54	20.00	-5,223.20	-1,310.88	5,360.18	5,330.81	29.57	181.268	
10,025.00	9,936.84	8,536.54	8,528.67	21.96	14.54	20.93	-5,223.73	-1,310.62	5,343.59	5,314.56	29.03	184.063	
10,050.00	9,948.89	8,552.00	8,543.16	22.06	14.55	22.03	-5,228.57	-1,308.25	5,326.34	5,297.76	28.58	186.345	
10,075.00	9,959.38	8,552.00	8,543.16	22.16	14.55	23.27	-5,228.57	-1,308.25	5,308.08	5,279.85	28.22	188.066	
10,100.00	9,968.87	8,552.00	8,543.16	22.27	14.55	24.70	-5,228.57	-1,308.25	5,289.06	5,261.06	28.00	188.875	
10,125.00	9,977.13	8,552.00	8,543.16	22.39	14.55	26.36	-5,228.57	-1,308.25	5,269.34	5,241.39	27.95	188.501	
10,150.00	9,984.15	8,552.00	8,543.16	22.51	14.55	28.29	-5,228.57	-1,308.25	5,248.96	5,220.85	28.11	186.716	
10,175.00	9,989.90	8,552.00	8,543.16	22.64	14.55	30.57	-5,228.57	-1,308.25	5,227.97	5,199.46	28.51	183.379	
10,200.00	9,994.37	8,552.00	8,543.16	22.78	14.55	33.27	-5,228.57	-1,308.25	5,206.43	5,177.26	29.17	178.483	
10,225.00	9,997.55	8,552.00	8,543.16	22.93	14.55	36.48	-5,228.57	-1,308.25	5,184.37	5,154.26	30.11	172.178	
10,250.00	9,999.43	8,552.00	8,543.16	23.08	14.55	40.33	-5,228.57	-1,308.25	5,161.87	5,130.54	31.33	164.767	
10,273.37	10,000.00	8,552.00	8,543.16	23.23	14.55	44.85	-5,228.57	-1,308.25	5,140.47	5,107.78	32.70	157.223	
10,300.00	10,000.00	8,552.00	8,543.16	23.41	14.55	44.85	-5,228.57	-1,308.25	5,115.92	5,083.10	32.82	155.881	
10,400.00	10,000.00	8,552.00	8,543.16	24.15	14.55	44.85	-5,228.57	-1,308.25	5,023.93	4,990.58	33.34	150.878	
10,500.00	10,000.00	8,552.00	8,543.16	25.00	14.55	44.85	-5,228.57	-1,308.25	4,932.24	4,898.29	33.95	145.284	
10,600.00	10,000.00	8,552.00	8,543.16	25.96	14.55	44.85	-5,228.57	-1,308.25	4,840.88	4,806.25	34.63	139.777	
10,700.00	10,000.00	8,552.00	8,543.16	27.00	14.55	44.85	-5,228.57	-1,308.25	4,749.87	4,714.48	35.39	134.230	
10,800.00	10,000.00	8,567.25	8,557.26	28.13	14.56	44.88	-5,233.81	-1,305.72	4,656.96	4,622.68	36.30	128.336	
10,900.00	10,000.00	8,584.00	8,572.49	29.32	14.56	45.14	-5,240.10	-1,302.73	4,568.77	4,531.48	37.29	122.523 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: 107H
 Well Error: 0.00 usft
 Reference Wellbore: OH
 Reference Design: Plan #1

Local Co-ordinate Reference: Well 107H
 TVD Reference: 3726.7 @ 3750.20usft (Original Well Elev)
 MD Reference: 3726.7 @ 3750.20usft (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) - 2 - 2 OH - 2 OH														Offset Site Error: 0.00 usft
Survey Program: 300-NS-GYRO-MS														Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Minimum Separation (usft)	Separation Factor	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N-S (usft)	+E-W (usft)						
0.00	0.00	0.00	0.00	0.00	0.00	-162.34	-7,021.05	-2,235.55	7,368.65					
100.00	100.00	39.87	39.87	0.09	0.05	-162.34	-7,021.04	-2,235.55	7,368.36	7,368.22	0.14	N/A		
200.00	200.00	151.24	151.24	0.31	0.20	-162.34	-7,020.88	-2,235.55	7,368.22	7,367.71	0.51	N/A		
300.00	300.00	262.62	262.62	0.54	0.35	-162.34	-7,020.55	-2,235.55	7,367.94	7,367.05	0.88	8,333.710		
400.00	400.00	395.08	395.08	0.76	0.65	-162.34	-7,019.78	-2,235.55	7,367.40	7,365.99	1.41	5,221.513		
500.00	500.00	538.18	538.17	0.99	1.03	-162.33	-7,018.14	-2,235.55	7,366.30	7,364.29	2.02	3,854.328		
600.00	600.00	658.30	658.27	1.21	1.35	-162.33	-7,016.14	-2,235.55	7,364.70	7,362.14	2.56	2,877.271		
700.00	700.00	758.28	758.24	1.43	1.62	-162.32	-7,014.39	-2,235.55	7,363.04	7,359.99	3.05	2,414.043		
800.00	800.00	858.27	858.21	1.66	1.88	-162.32	-7,012.65	-2,235.55	7,361.38	7,357.84	3.54	2,079.156		
900.00	900.00	958.25	958.18	1.88	2.15	-162.31	-7,010.90	-2,235.55	7,359.72	7,355.89	4.03	1,825.763		
1,000.00	1,000.00	1,058.24	1,058.15	2.11	2.41	-162.31	-7,009.16	-2,235.55	7,358.05	7,353.53	4.52	1,627.345		
1,100.00	1,100.00	1,158.22	1,158.11	2.33	2.68	-162.31	-7,007.41	-2,235.55	7,356.39	7,351.38	5.01	1,467.756		
1,200.00	1,200.00	1,258.21	1,258.08	2.56	2.94	-162.30	-7,005.67	-2,235.55	7,354.73	7,349.23	5.50	1,338.615		
1,300.00	1,300.00	1,358.19	1,358.05	2.78	3.21	-162.30	-7,003.92	-2,235.55	7,353.07	7,347.07	5.99	1,228.942		
1,400.00	1,400.00	1,458.17	1,458.02	3.01	3.48	-162.29	-7,002.18	-2,235.55	7,351.40	7,344.92	6.48	1,133.862		
1,500.00	1,500.00	1,558.16	1,557.99	3.23	3.74	-162.29	-7,000.43	-2,235.55	7,349.74	7,342.77	6.97	1,053.876		
1,600.00	1,600.00	1,658.15	1,655.01	3.46	4.00	-162.29	-6,998.75	-2,235.55	7,348.09	7,340.83	7.46	985.443		
1,700.00	1,700.00	1,749.52	1,749.33	3.68	4.25	-162.28	-6,997.18	-2,235.55	7,346.50	7,338.57	7.93	926.182		
1,800.00	1,800.00	1,843.85	1,843.64	3.91	4.50	-162.28	-6,995.69	-2,235.55	7,345.00	7,336.59	8.41	873.631		
1,900.00	1,900.00	1,938.18	1,937.96	4.13	4.75	-162.27	-6,994.27	-2,235.55	7,343.57	7,334.88	8.88	826.713		
2,000.00	2,000.00	2,032.51	2,032.29	4.36	5.00	-162.27	-6,992.93	-2,235.55	7,342.22	7,332.86	9.36	784.569		
2,100.00	2,100.00	2,127.56	2,127.33	4.58	5.25	-162.27	-6,991.66	-2,235.55	7,340.94	7,331.10	9.84	746.366		
2,200.00	2,200.00	2,222.55	2,227.31	4.81	5.52	-162.27	-6,990.35	-2,235.55	7,339.69	7,329.37	10.33	710.800		
2,300.00	2,300.00	2,327.54	2,327.29	5.03	5.79	-162.26	-6,989.04	-2,235.55	7,338.45	7,327.83	10.82	678.459		
2,400.00	2,400.00	2,427.53	2,427.27	5.26	6.05	-162.26	-6,987.73	-2,235.55	7,337.20	7,325.89	11.31	648.924		
2,500.00	2,500.00	2,527.53	2,527.26	5.48	6.32	-162.26	-6,986.42	-2,235.55	7,335.95	7,324.15	11.80	621.844		
2,600.00	2,600.00	2,627.52	2,627.24	5.71	6.58	-162.25	-6,985.12	-2,235.55	7,334.71	7,322.42	12.29	596.925		
2,700.00	2,700.00	2,727.53	2,737.24	5.93	6.88	-162.25	-6,983.82	-2,235.55	7,333.41	7,320.81	12.80	572.717		
2,800.00	2,800.00	2,851.52	2,851.22	6.15	7.18	-162.25	-6,981.85	-2,235.55	7,331.93	7,318.60	13.33	549.936		
2,900.00	2,900.00	2,965.51	2,965.19	6.38	7.48	-162.24	-6,979.85	-2,235.55	7,330.26	7,316.40	13.86	528.877		
3,000.00	3,000.00	3,079.49	3,079.15	6.60	7.78	-162.24	-6,977.62	-2,235.55	7,328.40	7,314.01	14.39	509.350		
3,100.00	3,100.00	3,188.37	3,188.00	6.83	8.07	-162.23	-6,975.29	-2,235.55	7,326.36	7,311.46	14.90	491.638		
3,200.00	3,200.00	3,288.34	3,287.95	7.05	8.34	-162.22	-6,973.11	-2,235.55	7,324.28	7,308.89	15.39	475.632		
3,300.00	3,300.00	3,388.32	3,387.91	7.28	8.61	-162.22	-6,970.93	-2,235.55	7,322.21	7,306.32	15.88	461.002		
3,400.00	3,400.00	3,478.14	3,477.71	7.50	8.84	-162.21	-6,969.03	-2,235.55	7,320.20	7,303.85	16.35	447.806		
3,500.00	3,500.00	3,567.36	3,566.91	7.73	9.08	-162.21	-6,967.29	-2,235.55	7,318.33	7,301.52	16.81	435.388		
3,600.00	3,600.00	3,657.85	3,657.39	7.95	9.32	-162.21	-6,965.65	-2,235.55	7,316.61	7,299.34	17.27	423.560		
3,700.00	3,700.00	3,757.84	3,757.36	8.18	9.59	-162.20	-6,963.91	-2,235.55	7,314.95	7,297.18	17.76	411.771		
3,800.00	3,800.00	3,857.82	3,857.33	8.40	9.85	-162.20	-6,962.16	-2,235.55	7,313.29	7,295.03	18.26	400.616		
3,900.00	3,900.00	3,960.99	3,960.48	8.63	10.13	-162.19	-6,960.35	-2,235.55	7,311.61	7,292.86	18.75	389.867		
4,000.00	4,000.00	4,066.88	4,066.35	8.85	10.41	-162.19	-6,958.41	-2,235.55	7,309.87	7,290.61	19.26	379.527		
4,100.00	4,100.00	4,172.77	4,172.23	9.08	10.69	-162.18	-6,956.38	-2,235.55	7,308.04	7,288.28	19.77	369.714		
4,200.00	4,200.00	4,278.66	4,278.09	9.30	10.97	-162.18	-6,954.25	-2,235.55	7,306.14	7,285.86	20.27	360.387		
4,300.00	4,300.00	4,384.55	4,383.95	9.53	11.25	-162.17	-6,952.04	-2,235.55	7,304.15	7,283.37	20.78	351.511		
4,400.00	4,400.00	4,482.47	4,481.83	9.75	11.67	-162.16	-6,949.25	-2,235.55	7,301.94	7,280.51	21.42	340.826		
4,500.00	4,500.00	4,578.99	4,578.28	9.98	12.04	-162.15	-6,943.65	-2,235.55	7,298.68	7,276.67	22.01	331.568		
4,600.00	4,600.00	4,798.31	4,795.51	10.20	12.35	-162.14	-6,939.44	-2,235.55	7,295.27	7,272.72	22.55	323.515		
4,700.00	4,700.00	4,865.00	4,864.16	10.43	12.53	-162.14	-6,936.81	-2,235.55	7,291.72	7,268.76	22.96	317.613		
4,800.00	4,800.00	4,981.87	4,980.95	10.65	12.85	-162.13	-6,932.45	-2,235.55	7,288.11	7,264.62	23.49	310.214		
4,900.00	4,900.00	5,082.94	5,081.97	10.87	13.06	-162.12	-6,929.69	-2,235.55	7,284.88	7,260.95	23.93	304.369		
5,000.00	5,000.00	5,144.03	5,143.02	11.10	13.28	-162.11	-6,927.16	-2,235.55	7,281.90	7,257.53	24.38	298.744		
5,100.00	5,100.00	5,225.13	5,224.08	11.32	13.49	-162.11	-6,924.84	-2,235.55	7,279.19	7,254.37	24.82	293.330		

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: 107H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Plan #1

Local Co-ordinate Reference: Well 107H
TVD Reference: 3726.7 @ 3750.20usft (Original Well Elev)
MD Reference: 3726.7 @ 3750.20usft (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) - 2 - 2 OH - 2 OH												Offset Site Error:	0.00 usft
Survey Program: 300-NS-GYRO-MS												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance		Minimum Separation		Separation Factor		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)		
5,200.00	5,199.98	5,308.22	5,305.15	11.54	13.71	107.94	-8,922.75	-2,235.55	7,277.27	7,252.04	25.23	288.478	
5,300.00	5,299.92	5,387.29	5,386.20	11.73	13.93	107.97	-8,920.88	-2,235.55	7,276.15	7,250.51	25.84	283.781	
5,400.00	5,399.86	5,515.00	5,513.88	11.93	14.27	108.01	-8,918.37	-2,235.55	7,275.47	7,249.29	26.18	277.917	
5,500.00	5,499.80	5,557.47	5,556.34	12.13	14.38	108.02	-8,917.63	-2,235.55	7,274.66	7,248.17	26.49	274.600	
5,600.00	5,599.74	5,657.39	5,656.25	12.34	14.64	108.05	-8,915.99	-2,235.55	7,274.08	7,247.12	26.96	269.822	
5,700.00	5,699.68	5,757.32	5,756.16	12.54	14.91	108.08	-8,914.14	-2,235.55	7,273.50	7,246.08	27.43	265.196	
5,800.00	5,799.61	5,857.24	5,856.07	12.74	15.18	108.11	-8,912.40	-2,235.55	7,272.93	7,245.03	27.90	260.715	
5,900.00	5,899.55	5,957.16	5,955.98	12.95	15.44	108.14	-8,910.66	-2,235.55	7,272.35	7,243.99	28.37	256.374	
6,000.00	5,999.49	6,057.09	6,055.89	13.15	15.71	108.17	-8,908.91	-2,235.55	7,271.78	7,242.95	28.84	252.167	
6,100.00	6,099.43	6,157.01	6,155.80	13.36	15.97	108.20	-8,907.17	-2,235.55	7,271.21	7,241.90	29.31	248.087	
6,200.00	6,199.37	6,256.94	6,255.71	13.57	16.24	108.23	-8,905.42	-2,235.55	7,270.65	7,240.86	29.78	244.129	
6,300.00	6,299.31	6,356.86	6,355.61	13.78	16.50	108.27	-8,903.68	-2,235.55	7,270.08	7,239.83	30.26	240.289	
6,400.00	6,399.25	6,456.78	6,455.52	13.98	16.77	108.30	-8,901.94	-2,235.55	7,269.52	7,238.79	30.73	236.562	
6,500.00	6,499.19	6,553.46	6,552.18	14.19	17.03	108.32	-8,900.26	-2,235.55	7,268.97	7,237.77	31.20	233.007	
6,600.00	6,599.16	6,647.97	6,646.69	14.40	17.28	108.33	-8,898.69	-2,235.55	7,268.08	7,236.43	31.65	229.854	
6,633.33	6,632.49	6,679.49	6,678.20	14.46	17.36	-161.67	-8,898.19	-2,235.55	7,267.62	7,235.83	31.79	228.597	
6,700.00	6,699.16	6,742.52	6,741.22	14.59	17.53	-161.67	-8,897.20	-2,235.55	7,266.63	7,234.54	32.09	226.427	
6,800.00	6,799.16	6,837.07	6,835.76	14.81	17.78	-161.67	-8,895.78	-2,235.55	7,265.20	7,232.64	32.57	223.087	
6,900.00	6,899.16	6,931.82	6,930.30	15.04	18.03	-161.66	-8,894.44	-2,235.55	7,263.85	7,230.81	33.04	219.845	
7,000.00	6,999.16	7,026.96	7,025.64	15.26	18.28	-161.66	-8,893.16	-2,235.55	7,262.58	7,229.06	33.52	216.882	
7,100.00	7,099.16	7,133.87	7,132.33	15.48	18.57	-161.66	-8,891.70	-2,235.55	7,261.28	7,227.26	34.02	213.418	
7,200.00	7,199.16	7,240.37	7,239.02	15.71	18.85	-161.65	-8,890.14	-2,235.55	7,259.90	7,225.37	34.53	210.247	
7,300.00	7,299.16	7,347.07	7,345.71	15.93	19.13	-161.65	-8,888.48	-2,235.55	7,258.42	7,223.38	35.04	207.165	
7,400.00	7,399.16	7,453.77	7,452.39	16.15	19.42	-161.64	-8,886.71	-2,235.55	7,256.84	7,221.30	35.54	204.168	
7,500.00	7,499.16	7,560.43	7,559.04	16.38	19.70	-161.64	-8,884.84	-2,235.55	7,255.18	7,219.13	36.05	201.253	
7,600.00	7,599.16	7,667.07	7,665.66	16.60	19.99	-161.63	-8,882.87	-2,235.55	7,253.42	7,216.87	36.56	198.416	
7,700.00	7,699.16	7,773.71	7,772.28	16.82	20.27	-161.63	-8,880.79	-2,235.55	7,251.58	7,214.51	37.06	195.654	
7,800.00	7,799.16	7,880.35	7,878.89	17.05	20.55	-161.62	-8,878.61	-2,235.55	7,249.64	7,212.07	37.57	192.964	
7,900.00	7,899.16	7,979.00	7,977.52	17.27	20.81	-161.62	-8,876.50	-2,235.55	7,247.61	7,209.55	38.06	190.449	
8,000.00	7,999.16	8,080.49	8,078.99	17.49	21.08	-161.61	-8,874.33	-2,235.55	7,245.58	7,207.03	38.55	187.960	
8,100.00	8,099.16	8,174.91	8,173.39	17.72	21.34	-161.61	-8,872.39	-2,235.55	7,243.63	7,204.61	39.02	185.625	
8,200.00	8,199.16	8,269.34	8,267.80	17.94	21.59	-161.60	-8,870.53	-2,235.55	7,241.76	7,202.26	39.50	183.349	
8,300.00	8,299.16	8,363.77	8,362.22	18.17	21.84	-161.60	-8,868.74	-2,235.55	7,239.96	7,199.99	39.97	181.128	
8,400.00	8,399.16	8,458.21	8,456.64	18.39	22.09	-161.60	-8,867.03	-2,235.55	7,238.24	7,197.80	40.45	178.961	
8,500.00	8,499.16	8,564.14	8,562.55	18.61	22.37	-161.59	-8,865.14	-2,235.55	7,236.55	7,195.60	40.95	176.712	
8,600.00	8,599.16	8,675.62	8,674.01	18.84	22.67	-161.59	-8,862.97	-2,235.55	7,234.70	7,193.23	41.47	174.453	
8,700.00	8,699.16	8,787.10	8,785.46	19.06	22.96	-161.58	-8,860.62	-2,235.55	7,232.70	7,190.71	41.99	172.246	
8,800.00	8,799.16	8,898.58	8,896.90	19.28	23.26	-161.57	-8,858.08	-2,235.55	7,230.54	7,188.03	42.51	170.089	
8,900.00	8,899.16	9,010.02	9,008.33	19.51	23.56	-161.57	-8,855.36	-2,235.55	7,228.22	7,185.19	43.03	167.980	
9,000.00	8,999.16	9,121.47	9,119.74	19.73	23.85	-161.56	-8,852.45	-2,235.55	7,225.75	7,182.20	43.55	165.919	
9,100.00	9,099.16	9,232.91	9,231.13	19.96	24.15	-161.55	-8,849.35	-2,235.55	7,223.11	7,179.04	44.07	163.902	
9,200.00	9,199.16	9,344.34	9,342.51	20.18	24.45	-161.54	-8,846.07	-2,235.55	7,220.31	7,175.72	44.59	161.928	
9,300.00	9,299.16	9,451.28	9,449.19	20.40	25.19	-161.51	-8,834.27	-2,235.55	7,216.37	7,170.83	45.55	158.432	
9,400.00	9,399.16	9,524.31	9,521.45	20.63	26.00	-161.46	-8,812.77	-2,235.55	7,209.64	7,163.07	46.58	154.790	
9,500.00	9,499.16	10,142.53	10,138.67	20.85	26.59	-161.41	-8,791.91	-2,235.55	7,200.45	7,153.07	47.38	151.972	
9,523.37	9,522.53	10,160.28	10,156.32	20.90	26.64	-161.40	-8,790.09	-2,235.55	7,198.18	7,150.70	47.48	151.605	
9,525.00	9,524.16	10,161.51	10,157.55	20.91	26.64	19.03	-8,789.97	-2,235.55	7,198.02	7,150.53	47.48	151.588	
9,550.00	9,549.15	10,180.42	10,176.36	20.95	26.69	19.16	-8,788.04	-2,235.55	7,194.91	7,147.42	47.49	151.496	
9,575.00	9,574.06	10,206.00	10,201.81	20.99	26.76	19.35	-8,785.47	-2,235.55	7,190.80	7,143.19	47.42	151.647	
9,600.00	9,598.83	10,206.00	10,201.81	21.04	26.76	19.57	-8,785.47	-2,235.55	7,185.11	7,137.94	47.18	152.305	
9,625.00	9,623.40	10,206.00	10,201.81	21.08	26.76	19.85	-8,785.47	-2,235.55	7,178.51	7,131.67	46.84	153.257	
9,650.00	9,647.66	10,237.82	10,233.48	21.13	26.85	20.21	-8,782.35	-2,235.55	7,170.66	7,124.17	46.49	154.232	

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: 107H
 Well Error: 0.00 usft
 Reference Wellbore: OH
 Reference Design: Plan #1

Local Co-ordinate Reference: Well 107H
 TVD Reference: 3726.7 @ 3750.20usft (Original Well Elev)
 MD Reference: 3726.7 @ 3750.20usft (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) - 2 - 2 OH - 2 OH														Offset Site Error: 0.00 usft
Survey Program: 300-NS-GYRO-MS														Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,875.00	9,871.83	10,249.53	10,245.14	21.17	26.88	20.83	-6,781.24	-2,235.55	7,161.75	7,115.74	46.01	155.668		
9,700.00	9,695.16	10,261.00	10,256.55	21.22	26.91	21.11	-6,780.17	-2,235.55	7,151.75	7,106.31	45.44	157.395		
9,725.00	9,718.22	10,272.19	10,267.99	21.26	26.94	21.67	-6,779.15	-2,235.55	7,140.67	7,095.87	44.80	159.405		
9,750.00	9,740.75	10,297.00	10,292.41	21.31	27.01	22.33	-6,778.94	-2,235.55	7,128.58	7,084.45	44.12	161.560		
9,775.00	9,762.87	10,297.00	10,292.41	21.35	27.01	23.05	-6,778.94	-2,235.55	7,115.42	7,072.08	43.34	164.184		
9,800.00	9,783.94	10,297.00	10,292.41	21.40	27.01	23.87	-6,778.94	-2,235.55	7,101.32	7,058.80	42.52	167.028		
9,825.00	9,804.50	10,322.05	10,317.36	21.44	27.07	24.87	-6,774.77	-2,235.55	7,086.24	7,044.51	41.74	169.779		
9,850.00	9,824.28	10,336.19	10,331.45	21.49	27.11	25.98	-6,773.56	-2,235.55	7,070.26	7,029.33	40.94	172.707		
9,875.00	9,843.23	10,349.64	10,344.85	21.54	27.15	27.25	-6,772.42	-2,235.55	7,053.41	7,013.24	40.17	175.593		
9,900.00	9,861.30	10,362.37	10,357.54	21.59	27.18	28.71	-6,771.34	-2,235.55	7,035.73	6,996.27	39.47	178.273		
9,925.00	9,878.45	10,374.35	10,369.47	21.65	27.21	30.39	-6,770.33	-2,235.55	7,017.28	6,978.41	38.87	180.534		
9,950.00	9,894.62	10,394.00	10,389.06	21.72	27.27	32.37	-6,768.70	-2,235.55	6,998.10	6,959.64	38.46	181.966		
9,975.00	9,909.77	10,394.00	10,389.06	21.80	27.27	34.53	-6,768.70	-2,235.55	6,978.23	6,940.04	38.19	182.728		
10,000.00	9,923.85	10,394.00	10,389.06	21.88	27.27	37.04	-6,768.70	-2,235.55	6,957.75	6,919.57	38.18	182.224		
10,025.00	9,936.84	10,394.00	10,389.06	21.96	27.27	39.94	-6,768.70	-2,235.55	6,936.72	6,898.23	38.49	180.201		
10,050.00	9,948.69	10,394.00	10,389.06	22.06	27.27	43.32	-6,768.70	-2,235.55	6,915.19	6,876.02	39.17	176.528		
10,075.00	9,959.38	10,419.22	10,414.20	22.16	27.33	47.57	-6,766.65	-2,235.55	6,893.14	6,852.71	40.42	170.520		
10,100.00	9,968.87	10,423.52	10,418.48	22.27	27.35	52.26	-6,766.30	-2,235.55	6,870.74	6,828.80	41.94	163.827		
10,125.00	9,977.13	10,427.12	10,422.07	22.39	27.36	57.88	-6,766.02	-2,235.55	6,848.01	6,804.24	43.77	156.455		
10,150.00	9,984.15	10,430.01	10,424.95	22.51	27.36	63.87	-6,765.79	-2,235.55	6,825.01	6,779.24	45.77	149.124		
10,175.00	9,989.90	10,432.18	10,427.12	22.64	27.37	70.82	-6,765.62	-2,235.55	6,801.80	6,754.10	47.70	142.602		
10,200.00	9,994.37	10,433.62	10,428.55	22.78	27.37	78.42	-6,765.51	-2,235.55	6,778.45	6,729.18	49.27	137.581		
10,225.00	9,997.55	10,434.33	10,429.25	22.93	27.38	86.43	-6,765.45	-2,235.55	6,755.02	6,704.82	50.20	134.566		
10,250.00	9,999.43	10,434.28	10,429.21	23.08	27.38	94.54	-6,765.46	-2,235.55	6,731.57	6,681.25	50.31	133.796		
10,273.37	10,000.00	10,433.57	10,428.50	23.23	27.37	101.91	-6,765.51	-2,235.55	6,709.68	6,660.01	49.68	135.063		
10,300.00	10,000.00	10,432.38	10,427.31	23.41	27.37	101.89	-6,765.81	-2,235.55	6,684.80	6,634.95	49.85	134.090		
10,400.00	10,000.00	10,427.87	10,422.81	24.15	27.36	101.78	-6,765.96	-2,235.55	6,591.49	6,540.90	50.59	130.304		
10,500.00	10,000.00	10,423.30	10,418.26	25.00	27.35	101.67	-6,766.32	-2,235.55	6,496.36	6,446.93	51.43	126.358		
10,600.00	10,000.00	10,418.66	10,413.64	25.96	27.33	101.57	-6,766.69	-2,235.55	6,405.44	6,353.07	52.37	122.309		
10,700.00	10,000.00	10,394.00	10,389.06	27.00	27.27	100.99	-6,768.70	-2,235.55	6,312.78	6,259.36	53.42	118.164		
10,800.00	10,000.00	10,394.00	10,389.06	28.13	27.27	100.99	-6,768.70	-2,235.55	6,220.26	6,165.73	54.53	114.068		
10,900.00	10,000.00	10,394.00	10,389.06	29.32	27.27	100.99	-6,768.70	-2,235.55	6,127.98	6,072.27	55.71	110.000 CC, ES, SF		

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

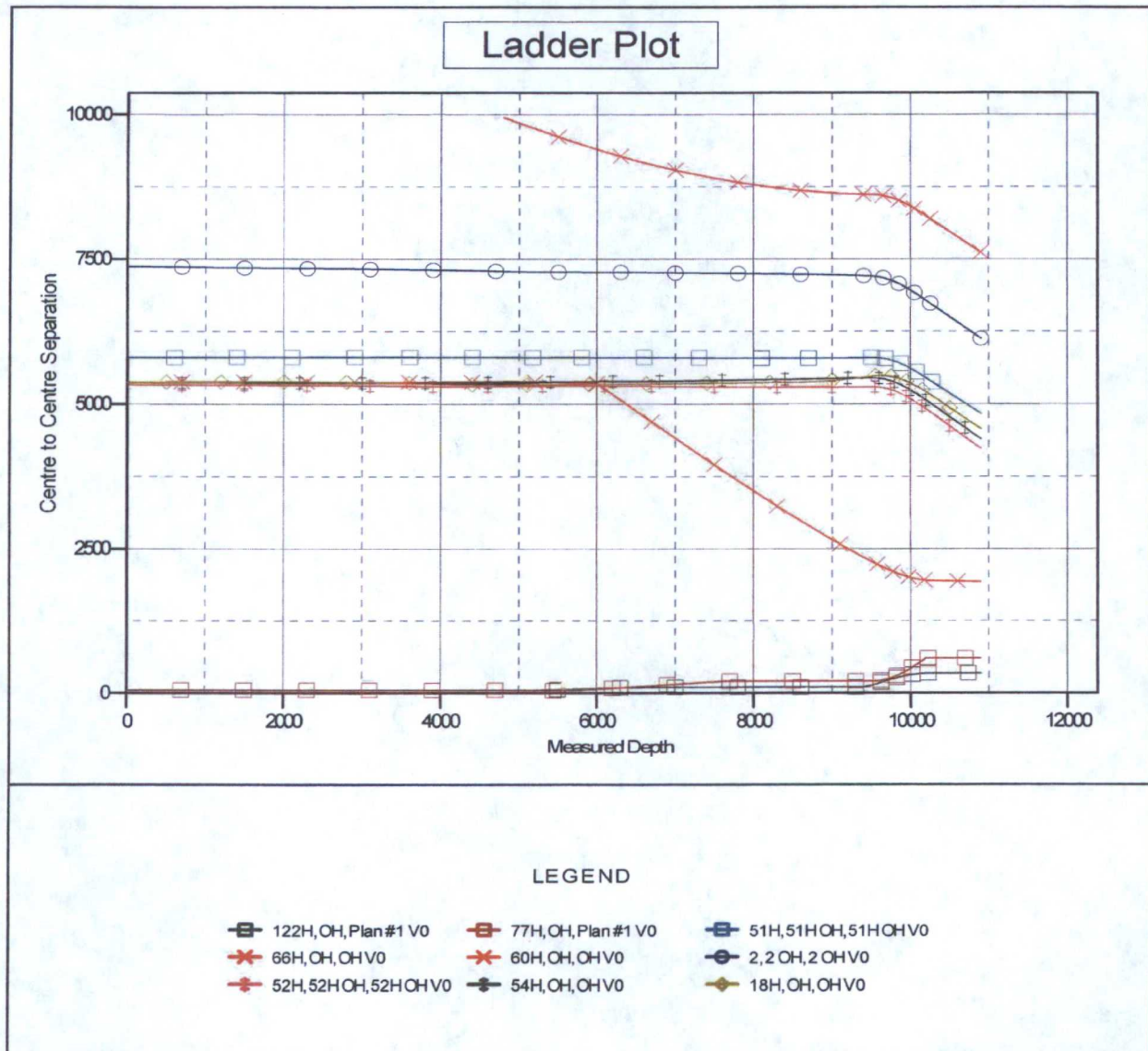
LEAM Drilling Systems LLC

Anticollision Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 107H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3726.7 @ 3750.20usft (Original Well Elev)
Reference Site:	Thistle Unit	MD Reference:	3726.7 @ 3750.20usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	107H	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 3726.7 @ 3750.20usft (Original Well E
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: 107H
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

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 107H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3726.7 @ 3750.20usft (Original Well Elev)
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Reference Depths are relative to 3726.7 @ 3750.20usft (Original Well E
Offset Depths are relative to Offset Datum
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Coordinates are relative to: 107H
Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Grid Convergence at Surface is: 0.40°

