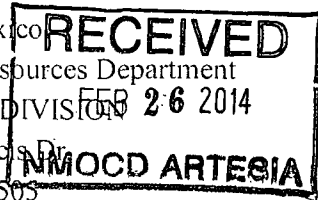


District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (505) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505



Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office
 AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-42102	² Pool Code 96144	³ Pool Name Carlsbad; Bone Spring, East
⁴ Property Code 38927	⁵ Property Name LONE TREE DRAW 13 STATE COM	
⁸ OGRID No. 6137	⁹ Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.	⁶ Well Number 9H
		⁷ Elevation 3152.2

¹⁰ Surface Location

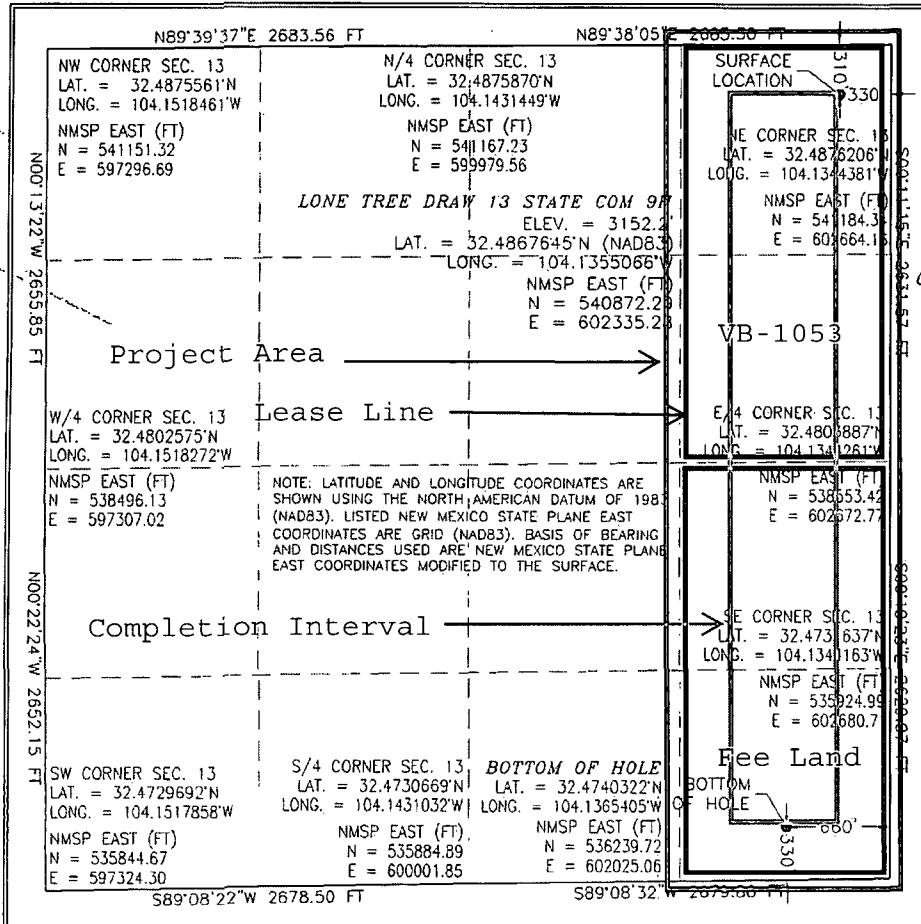
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	13	21 S	27 E		310	NORTH	330	EAST	EDDY

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	13	21 S	27 E		330	SOUTH	660	EAST	EDDY

¹² Dedicated Acres 160.00	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
---	-------------------------------	----------------------------------	-------------------------

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



¹⁷ OPERATOR CERTIFICATION
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order previously entered by the division.

Linda Good 2/25/2014
Signature Date

Linda Good
Printed Name

linda.good@dvn.com
E-mail Address

¹⁸ SURVEYOR CERTIFICATION
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

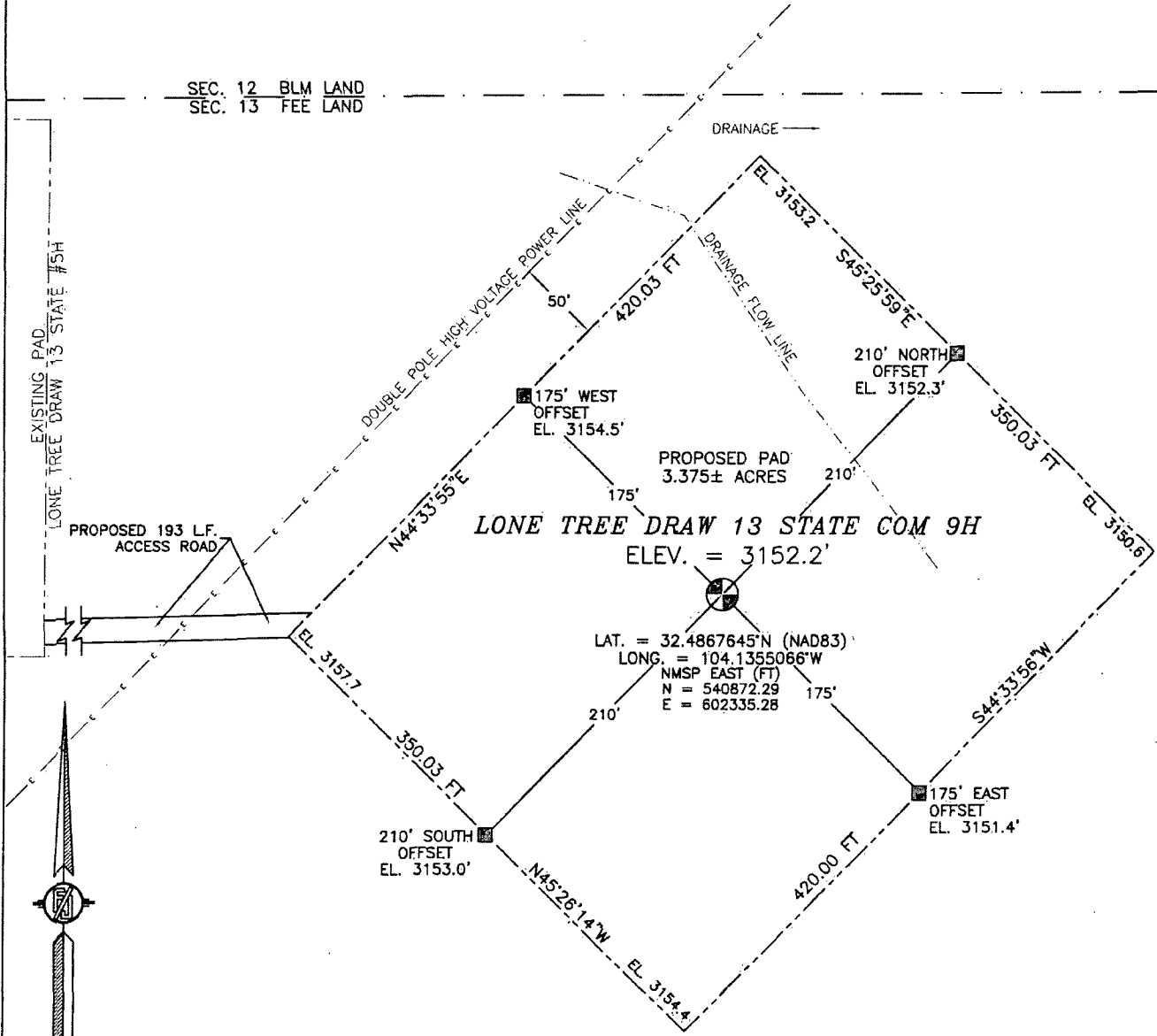
SEPTEMBER 26, 2013
Date of Survey

Filimon E. Jaramillo
Signature and Seal of Professional Surveyor

Certificate Number: FILIMON E. JARAMILLO, PLS 12797
SURVEY NO. 2188

**SECTION 13, TOWNSHIP 21 SOUTH, RANGE 27 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
SITE MAP**

SEC. 12 BLM LAND
SEC. 13 FEE LAND



LAT. = 32.4867645°N (NAD83)
 LONG. = 104.1355066°W
 NMSP EAST (FT)
 N = 540872.29
 E = 602335.28

NOTE: LATITUDE AND LONGITUDE COORDINATES ARE SHOWN USING THE NORTH AMERICAN DATUM OF 1983 (NAD83). LISTED NEW MEXICO STATE PLANE EAST COORDINATES ARE GRID (NAD83). BASIS OF BEARING AND DISTANCES USED ARE NEW MEXICO STATE PLANE EAST COORDINATES MODIFIED TO THE SURFACE.

010 50 100 200

SCALE 1" = 100'
 DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF CR 206 (ILLINOIS CAMP) AND SR 200 (GEORGE SHOUP, RELIEF ROUTE) GO NORTH ON CR 206 1.3 MILES TO CR 800 (RAINS ROAD) ON THE RIGHT (EAST) GO DOWN CR 600 2.1 MILES (RAMBO BOOSTER) PAVEMENT ENDS CONTINUE EAST AT 2.3 MILES CALICHE ROAD TO THE RIGHT (EAST) ACROSS FROM A GRAVEL PIT GO RIGHT ON CALICHE ROAD 2.75 MILES TO BEND IN THE ROAD TO THE NORTH ABOUT 880 FT. THE ROAD BEND RIGHT GO EAST 0.9 MILES TO PAD FOR LONE TREE DRAW 13 STATE #5H FROM THE SE. CORNER OF EXISTING PAD GO 193 LF. TO SW. CORNER OF PAD

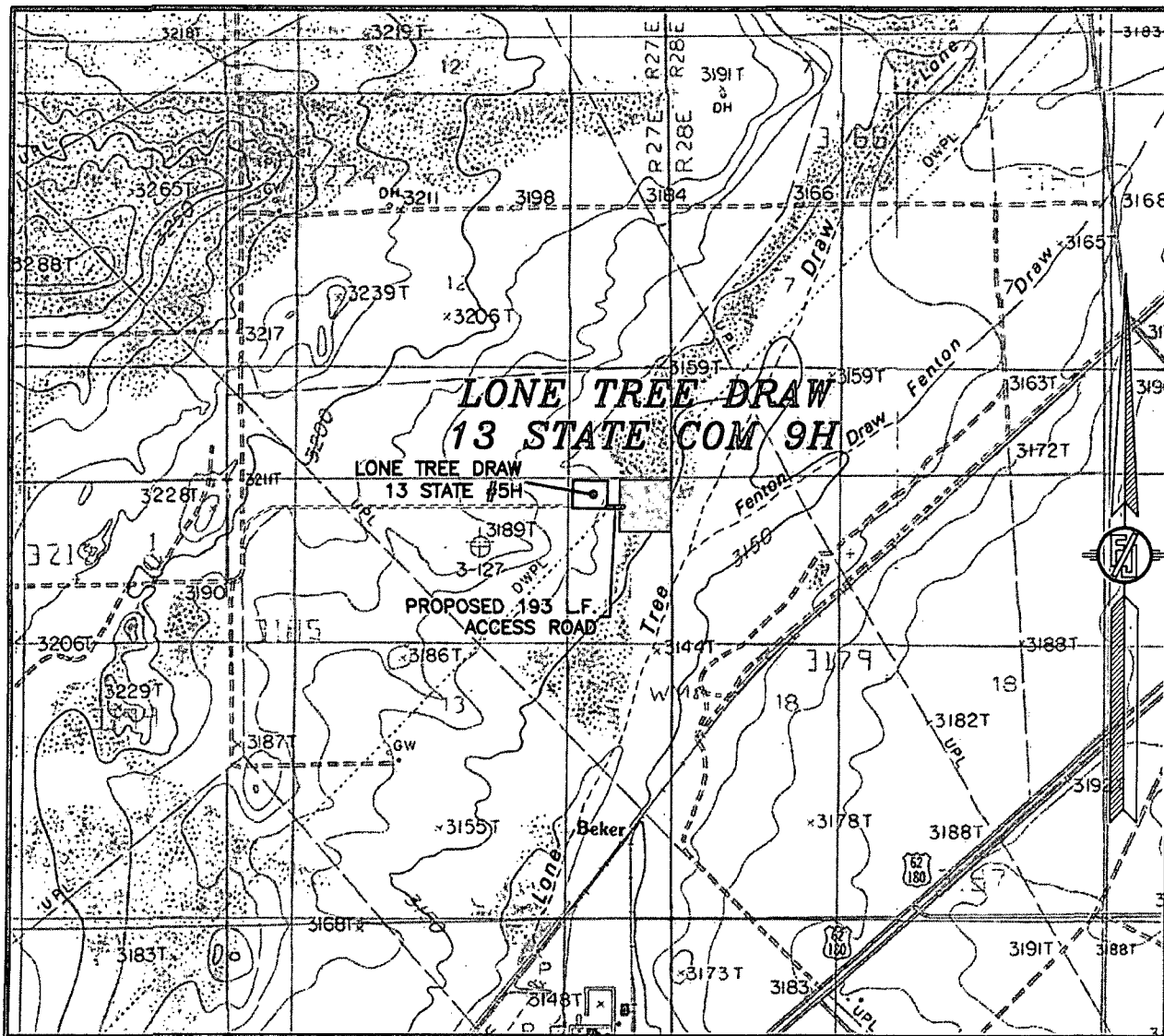
**DEVON ENERGY PRODUCTION COMPANY, L.P.
LONE TREE DRAW 13 STATE COM 9H
LOCATED 310 FT. FROM THE NORTH LINE
AND 330 FT. FROM THE EAST LINE OF
SECTION 13, TOWNSHIP 21 SOUTH,
RANGE 27 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO**

SEPTEMBER 26, 2013

SURVEY NO. 2188

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

SECTION 13, TOWNSHIP 21 SOUTH, RANGE 27 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO
 LOCATION VERIFICATION MAP



USGS QUAD MAP:
 CARLSBAD EAST

NOT TO SCALE

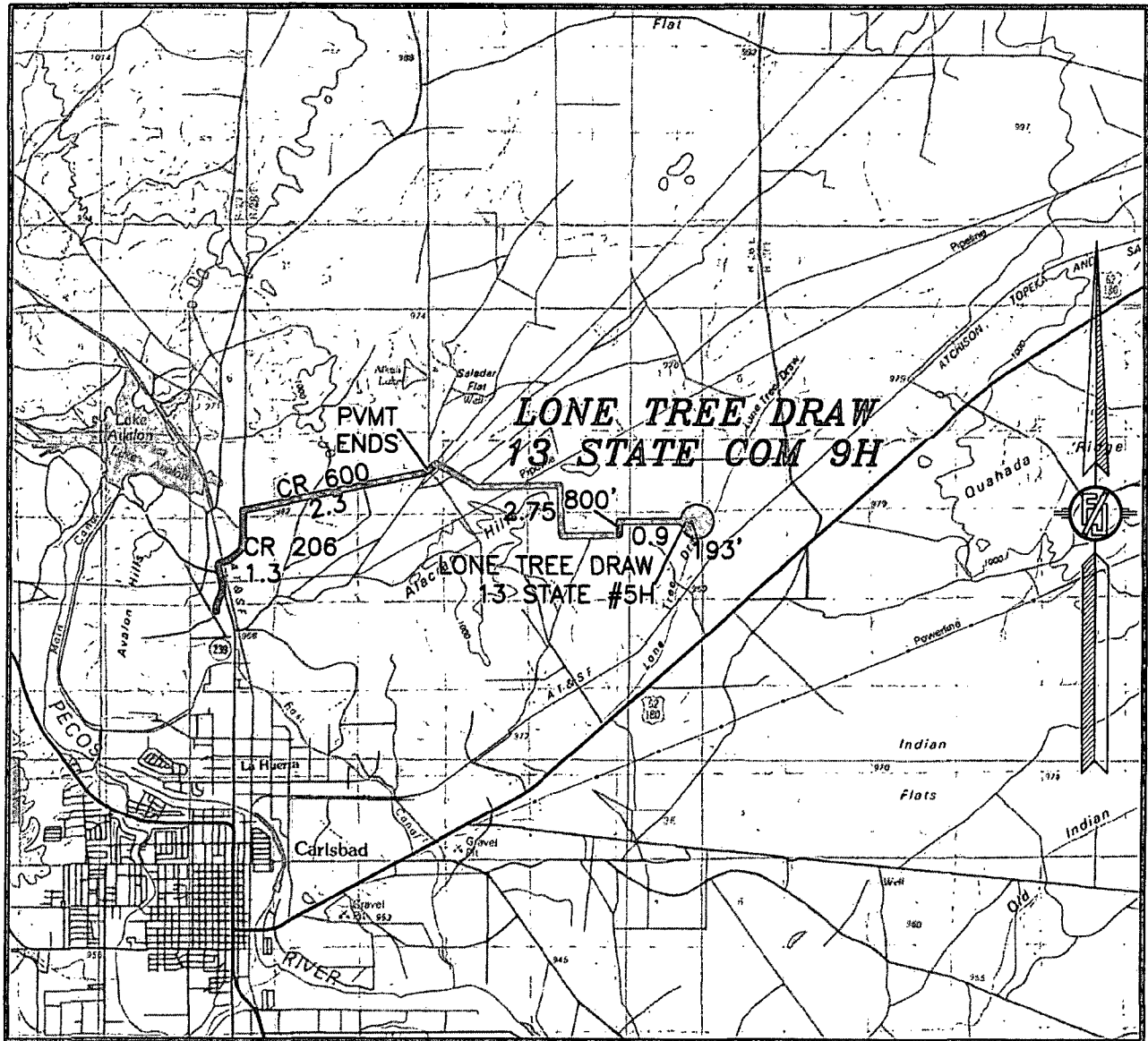
DEVON ENERGY PRODUCTION COMPANY, L.P.
 LONE TREE DRAW 13 STATE COM 9H
 LOCATED 310 FT. FROM THE NORTH LINE
 AND 330 FT. FROM THE EAST LINE OF
 SECTION 13, TOWNSHIP 21 SOUTH,
 RANGE 27 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO

SEPTEMBER 26, 2013

SURVEY NO. 2188

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

SECTION 13, TOWNSHIP 21 SOUTH, RANGE 27 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO
 VICINITY MAP



DISTANCES IN MILES

NOT TO SCALE

DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF CR 206 (ILLINOIS CAMP) AND SR 200 (GEORGE SHOUP, RELIEF ROUTE) GO NORTH ON CR 206 1.3 MILES TO CR 600 (RAINS ROAD) ON THE RIGHT (EAST) GO DOWN CR 600 2.1 MILES (RAMBO BOOSTER) PAVEMENT ENDS CONTINUE EAST AT 2.3 MILES CALICHE ROAD TO THE RIGHT (EAST) ACROSS FROM A GRAVEL PIT GO RIGHT ON CALICHE ROAD 2.75 MILES TO BEND IN THE ROAD TO THE NORTH ABOUT 880 FT. THE ROAD BEND RIGHT GO EAST 0.9 MILES TO PAD FOR LONE TREE DRAW 13 STATE #5H FROM THE SE. CORNER OF EXISTING PAD GO 193 L.F. TO SW. CORNER OF PAD

**DEVON ENERGY PRODUCTION COMPANY, L.P.
 LONE TREE DRAW 13 STATE COM 9H**

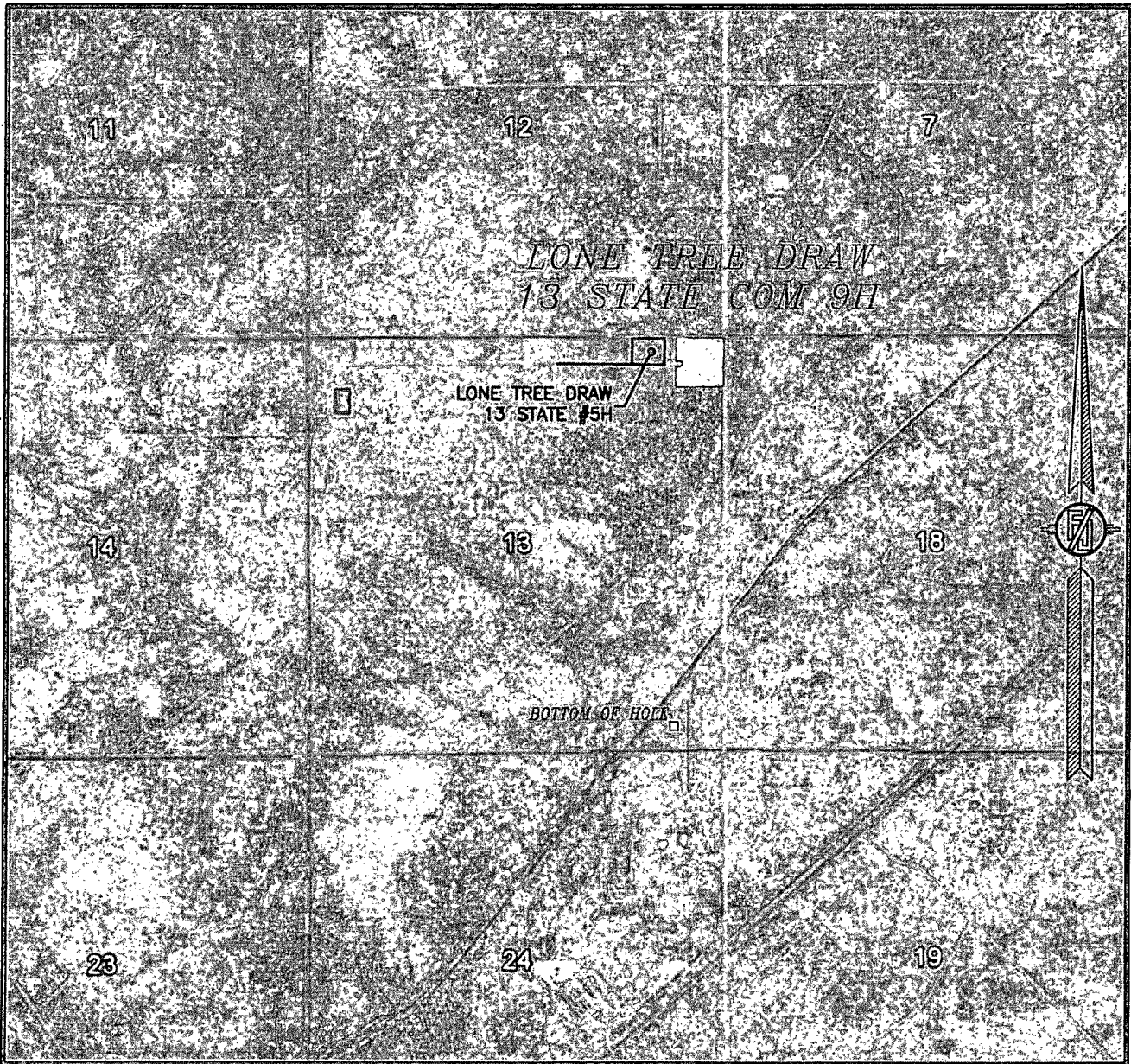
LOCATED 310 FT. FROM THE NORTH LINE
 AND 330 FT. FROM THE EAST LINE OF
 SECTION 13, TOWNSHIP 21 SOUTH,
 RANGE 27 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO

SEPTEMBER 26, 2013

SURVEY NO. 2188

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

SECTION 13, TOWNSHIP 21 SOUTH, RANGE 27 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
AERIAL PHOTO



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
APRIL 2013

DEVON ENERGY PRODUCTION COMPANY, L.P.
LONE TREE DRAW 13 STATE COM 9H
LOCATED 310 FT. FROM THE NORTH LINE
AND 330 FT. FROM THE EAST LINE OF
SECTION 13, TOWNSHIP 21 SOUTH,
RANGE 27 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

SEPTEMBER 26, 2013

SURVEY NO. 2188

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

DRILLING PROGRAM

Devon Energy Production Company, L.P.
Lone Tree Draw 13 State Com 9H

1. **Geologic Name of Surface Formation:** Quaternary

2. **Estimated Tops of Geological Markers & Depths of Anticipated FW, Oil, or Gas:**

a. Fresh Water	200'		
b. Rustler	710'	Barren	
c. Salado	835'	Barren	
d. Tansil Dolomite	2410'	Barren	
e. Yates	2540'	Barren	
f. Seven Rivers	2780'	Barren	
g. Queen	3415'	Barren	
h. San Andres	4225'	Barren	
i. Delaware	4905'	Oil	
j. Bone Spring	6850'	Oil	
k. 1 st Bone Spring SS	8130'	Oil	
l. 2 nd Bone Spring Lime	8375'	Oil	
m. 2 nd Bone Spring	8860'	Oil	
Total Depth	9030' TVD	13873' MD	10327' PH

3. Pressure Control Equipment:

A 3M 13-5/8" BOP system (Double Ram and Annular preventer) will be installed and tested prior to drilling out the surface casing shoe. The BOP system used to drill the intermediate hole will be tested per BLM Onshore Oil and Gas Order 2.

A 3M 13-5/8" BOP system (Double Ram and Annular preventer) will be installed and tested prior to drilling out the intermediate casing shoe. The BOP system used to drill the production hole will be tested per BLM Onshore Oil and Gas Order 2.

The pipe rams will be operated and checked each 24 hour period and each time the drill pipe is out of the hole. These tests will be logged in the daily driller's log. A 2" kill line and 3" choke line will be incorporated into the drilling spool below the ram BOP. In addition to the rams and annular preventer, additional BOP accessories include a kelly cock, floor safety valve, choke lines, and choke manifold rated at 3,000 psi WP.

Devon requests a variance to use a flexible line with flanged ends between the BOP and the choke manifold (choke line); **if an H&P rig drills this well. Otherwise no flex line is needed.** The line will be kept as straight as possible with minimal turns.

Auxiliary Well Control and Monitoring Equipment:

- a. A Kelly cock will be in the drill string at all times.
- b. A full opening drill pipe stabbing valve having the appropriate connections will be on the rig floor at all times.

4. Casing Program:

Hole Size	Hole Interval	Casing OD	Casing Interval	Weight (lb/ft)	Collar	Grade	Collapse Design Factor	Burst Design Factor	Tension Design Factor
17-1/2"	0 - 300'	13-3/8"	0 - 300'	48	STC	H-40	5.48	12.32	37.57
12-1/4"	300-2775'	9-5/8"	0-2775'	36	LTC	HCK-55	1.78	2.74	4.68
8-3/4"	2775-12187'	5-1/2"	0-12187'	17	BTC	P-110	2.35	2.92	4.29

Casing Notes:

- An 8-3/4" pilot hole will be drilled to 9257' and plugged back to KOP (for volumes and TOC see cement table)
- All casing is new and API approved

Maximum Lateral TVD: 7791'

5. Proposed mud Circulations System:

Depth	Mud Weight	Viscosity	Fluid Loss	Type System
0-300'	8.4-9.0	30-34	N/C	FW
300-2775'	9.8-10.0	28-32	N/C	Brine
2775-12187'	8.6-9.0	28-32	N/C	FW

The necessary mud products for weight addition and fluid loss control will be on location at all times. Visual mud monitoring equipment will be in place to detect volume changes indicating loss or gain of circulating fluid volume. If abnormal pressures are encountered, electronic/mechanical mud monitoring equipment will be installed.

6. Cementing Table:

String	Number of sx	Weight lbs/gal	Water Volume g/sx	Yield cf/sx	Stage; Lead/Tail	Slurry Description
13-3/8" Surface	350	14.8	6.32	1.33	Tail	Class C Cement + 63.5% Fresh Water
9-5/8" Intermediate Single Stage	500	12.9	9.81	1.85	Lead	(65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sack Poly-E-Flake + 70.9 % Fresh Water
	430	14.8	6.32	1.33	Tail	Class C Cement + 0.125 lbs/sack Poly-E-Flake + 63.5% Fresh Water
9-5/8" Intermediate 2-Stage Option	160	12.9	9.81	1.85	Lead	(65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sack Poly-E-Flake + 70.9 % Fresh Water
	220	14.8	6.32	1.33	Tail	Class C Cement + 0.125 lbs/sack Poly-E-Flake + 63.5% Fresh Water
	DV Tool @ 1750ft					
	550	13.7	8.66	1.67	Tail	Class C Cement + 0.4% BWOC LAP-1 + 0.2% BWOC HR-601 + 0.2 lb/sk D-Air 5000 + 4% BWOC Bentonite + 69.3% Fresh Water
Pilot Hole Plug Back	870	15.6	5.39	1.19	Plug Cement	Class H Cement + 0.2% Halad-9 + 0.2% HR-601 + 60.5 % Fresh Water
5-1/2" Production Casing Single Stage	570	11.0	15.23	2.71	Lead	Tuned Light Blend + 0.125 lb/sk Pol-E-Flake + 76.3% Fresh Water
	1300	14.5	5.38	1.22	Tail	(50:50) Class H Cement: Poz (Fly Ash) + 1 lb/sk Sodium Chloride + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% bwoc HR-601 + 2% bwoc Bentonite + 58.8% Fresh Water
5-1/2" Production Casing 2-Stage Option	440	12.5	10.86	1.96	Lead	(65:35) Class H Cement: Poz (Fly Ash) + 6% BWOC Bentonite + 0.25% BWOC HR-601 + 0.125 lbs/sack Poly-E-Flake + 74.1 % Fresh Water
	1300	14.5	5.38	1.22	Tail	(50:50) Class H Cement: Poz (Fly Ash) + 1 lb/sk Sodium Chloride + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% bwoc HR-601 + 2% bwoc Bentonite + 58.8% Fresh Water
	DV Tool @ 4500ft					
	230	11.9	12.89	2.26	Lead	(50:50) Class H Cement: Poz (Fly Ash) + 10% BWOC Bentonite + 1 lb/sk of Kol-Seal + 0.3% BWOC HR-601 + 0.5lb/sk D-Air 5000 + 76.4% Fresh Water
	120	14.8	6.32	1.33	Tail	Class C Cement + 0.125 lbs/sack Poly-E-Flake + 63.5% Fresh Water

TOC for all Strings:

Surface	@	0'
Intermediate	@	0'
Production	@	2775'

Notes:

- Cement volumes Surface 100%, Intermediate 75%, Production based on at least 25% excess
- Actual cement volumes will be adjusted based on fluid caliper and caliper log data
- If lost circulation is encountered while drilling the production and/or the intermediate wellbores, a DV tool will be installed a minimum of 50' below the previous casing shoe and of 200' above the current shoe. If the DV tool has to be moved, the cement volumes will be adjusted proportionately.

DEVON ENERGY

Project: Eddy County, NM (NAD-83)
 Site: Lone Tree Draw "13" State
 Well: 9H
 Wellbore: OH
 Design: Plan #1 Draft 1



Azimuths to Grid North
 True North: -0.11°
 Magnetic North: 7.56°
 Magnetic Field
 Strength: 48431.8snT
 Dip Angle: 60.25°
 Date: 01/15/2014
 Model: BGGM2013



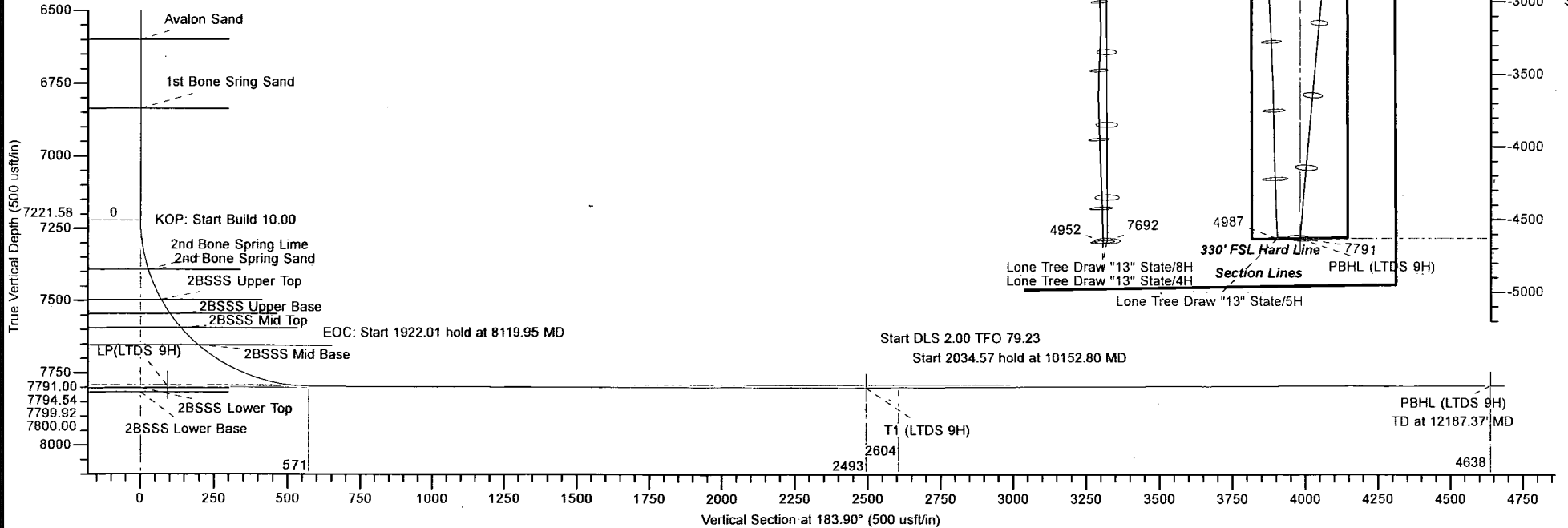
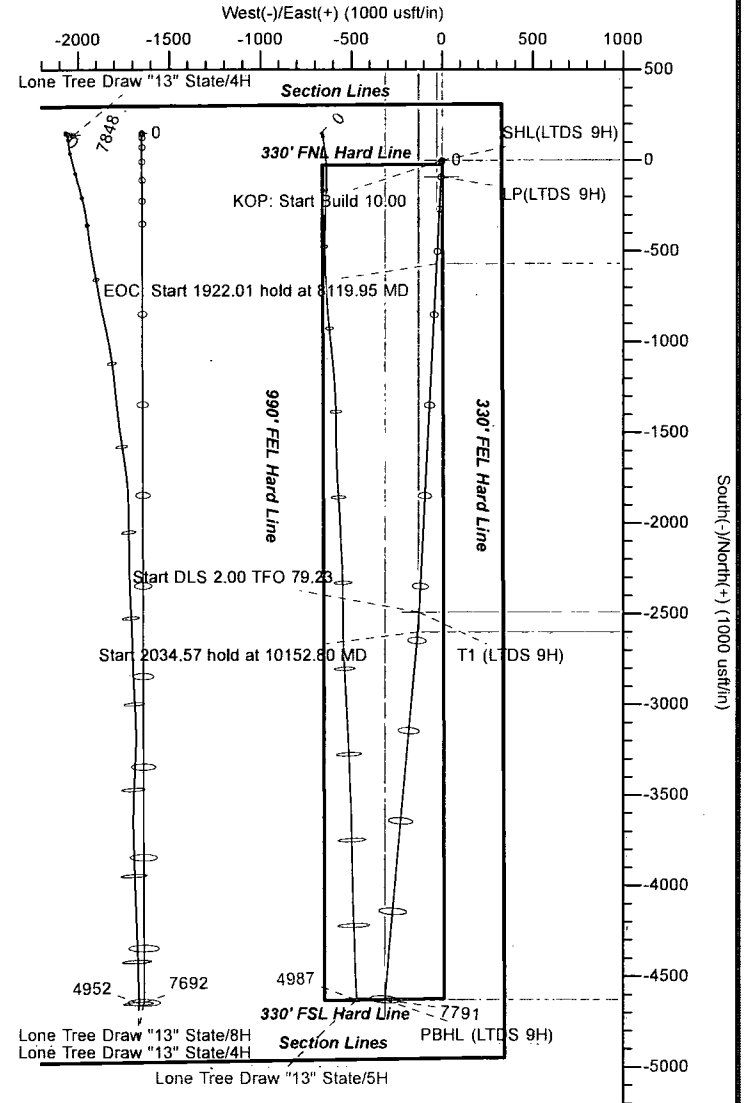
PROJECT DETAILS: Eddy County, NM (NAD-83)
 Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: New Mexico Eastern Zone

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
SHL(LTDS 9H)	0.00	0.00	0.00	540872.29	602335.28	32° 29' 12.352 N	104° 8' 7.824 W
PBHL (LTDS 9H)	7791.00	-4627.16	-315.54	536245.13	602019.74	32° 28' 26.569 N	104° 8' 11.608 W
LP(LTDS 9H)	7793.00	-90.08	-4.81	540782.21	602330.47	32° 29' 11.461 N	104° 8' 7.882 W
T1 (LTDS 9H)	7800.00	-2490.10	-126.99	538382.19	602208.29	32° 28' 47.714 N	104° 8' 9.360 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	7221.58	0.00	0.00	7221.58	0.00	0.00	0.00	0.00	0.00	KOP: Start Build 10.00
3	8119.95	89.84	182.92	7794.54	-570.59	-29.10	10.00	182.92	571.24	EOC: Start 1922.01 hold at 8119.95 MD
4	10041.96	89.84	182.92	7800.00	-2490.09	-127.01	0.00	0.00	2492.97	Start DLS 2.00 TFO 79.23
5	10152.80	90.25	185.10	7799.92	-2600.65	-134.76	2.00	79.23	2603.79	Start 2034.57 hold at 10152.80 MD
6	12187.37	90.25	185.10	7791.00	-4627.16	-315.54	0.00	0.00	4637.90	TD at 12187.37 MD



LEAM DRILLING SYSTEMS LLC
 2010 East Davis, Conroe, Texas 57301
 Phone: 936/756-7577, Fax 936/756-7595

Plan: Plan #1 Draft 1 (9H/OH)
 Lone Tree Draw "13" State
 Created By: Heber Claros Date: 13:44, January 15 2014
 Date: _____ Date: _____
 Approved: _____ Date: _____

Leam Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 9H
Company:	DEVON ENERGY	TVD Reference:	GE 3152' + KB 26' @ 3178.00usft (Original Well Elev)
Project:	Eddy County, NM (NAD-83)	MD Reference:	GE 3152' + KB 26' @ 3178.00usft (Original Well Elev)
Site:	Lone Tree Draw "13" State	North Reference:	Grid
Well:	9H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1 Draft 1		

Project Eddy 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 Lone Tree Draw "13" State			
Site Position:	Northing:	541,005.87 usft	Latitude: 32° 29' 13.750 N
From: Map	Easting:	598,047.12 usft	Longitude: 104° 8' 57.887 W
Position Uncertainty:	0.00 usft	Slot Radius: 13-3/16 "	Grid Convergence: 0.10 °

Well 9H			
Well Position	+N/-S	-133.58 usft	Northing: 540,872.29 usft
	+E/-W	4,288.16 usft	Easting: 602,335.28 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft
		Ground Level:	3,152.00 usft

Wellbore OH					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2013	01/15/14	7.67	60.25	48,432

Design Plan #1 Draft 1				
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	7,791.00	0.00	0.00	183.90

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	
7,221.58	0.00	0.00	7,221.58	0.00	0.00	0.00	0.00	0.00	0.00	
8,119.95	89.84	182.92	7,794.54	-570.59	-29.10	10.00	10.00	0.00	182.92	
10,041.96	89.84	182.92	7,800.00	-2,490.09	-127.01	0.00	0.00	0.00	0.00	T1 (LTDS 9H)
10,152.80	90.25	185.10	7,799.92	-2,600.65	-134.76	2.00	0.37	1.96	79.23	
12,187.37	90.25	185.10	7,791.00	-4,627.16	-315.54	0.00	0.00	0.00	0.00	PBHL (LTDS 9H)

Leam Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 9H
Company:	DEVON ENERGY	TVD Reference:	GE 3152' + KB 26' @ 3178.00usft (Original Well Elev)
Project:	Eddy County, NM (NAD-83)	MD Reference:	GE 3152' + KB 26' @ 3178.00usft (Original Well Elev)
Site:	Lone Tree Draw "13" State	North Reference:	Grid
Well:	9H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1 Draft 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)	
7,221.58	0.00	0.00	7,221.58	0.00	0.00	0.00	0.00	0.00	0.00	
KOP: Start Build 10.00										
7,250.00	2.84	182.92	7,249.99	-0.70	-0.04	0.70	10.00	10.00	0.00	
7,300.00	7.84	182.92	7,299.76	-5.35	-0.27	5.36	10.00	10.00	0.00	
7,350.00	12.84	182.92	7,348.93	-14.31	-0.73	14.33	10.00	10.00	0.00	
7,394.62	17.30	182.92	7,392.00	-25.90	-1.32	25.93	10.00	10.00	0.00	
2nd Bone Spring Lime - 2nd Bone Spring Sand										
7,400.00	17.84	182.92	7,397.13	-27.52	-1.40	27.55	10.00	10.00	0.00	
7,450.00	22.84	182.92	7,444.00	-44.87	-2.29	44.93	10.00	10.00	0.00	
7,500.00	27.84	182.92	7,489.17	-66.24	-3.38	66.32	10.00	10.00	0.00	
7,508.89	28.73	182.92	7,497.00	-70.45	-3.59	70.53	10.00	10.00	0.00	
2BSSS Upper Top										
7,550.00	32.84	182.92	7,532.31	-91.46	-4.67	91.56	10.00	10.00	0.00	
7,565.24	34.37	182.92	7,545.00	-99.88	-5.09	99.99	10.00	10.00	0.00	
2BSSS Upper Base										
7,600.00	37.84	182.92	7,573.08	-120.33	-6.14	120.47	10.00	10.00	0.00	
7,626.99	40.54	182.92	7,594.00	-137.37	-7.01	137.53	10.00	10.00	0.00	
2BSSS Mid Top										
7,650.00	42.84	182.92	7,611.18	-152.65	-7.79	152.82	10.00	10.00	0.00	
7,700.00	47.84	182.92	7,646.31	-188.16	-9.60	188.37	10.00	10.00	0.00	
7,710.06	48.85	182.92	7,653.00	-195.67	-9.98	195.89	10.00	10.00	0.00	
2BSSS Mid Base										
7,716.49	49.49	182.92	7,657.20	-200.52	-10.23	200.76	10.00	10.00	0.00	
LP(LTDS 9H)										
7,750.00	52.84	182.92	7,678.21	-226.59	-11.56	226.85	10.00	10.00	0.00	
7,800.00	57.84	182.92	7,706.64	-267.65	-13.65	267.96	10.00	10.00	0.00	
7,850.00	62.84	182.92	7,731.37	-311.03	-15.86	311.39	10.00	10.00	0.00	
7,900.00	67.84	182.92	7,752.22	-356.40	-18.18	356.81	10.00	10.00	0.00	
7,950.00	72.84	182.92	7,769.04	-403.41	-20.58	403.87	10.00	10.00	0.00	
8,000.00	77.84	182.92	7,781.69	-451.70	-23.04	452.22	10.00	10.00	0.00	
8,050.00	82.84	182.92	7,790.07	-500.91	-25.55	501.49	10.00	10.00	0.00	
8,100.00	87.84	182.92	7,794.13	-550.67	-28.09	551.30	10.00	10.00	0.00	
8,119.95	89.84	182.92	7,794.54	-570.59	-29.10	571.24	10.00	10.00	0.00	
EOC: Start 1922.01 hold at 8119.95 MD										
8,200.00	89.84	182.92	7,794.76	-650.53	-33.18	651.28	0.00	0.00	0.00	
8,300.00	89.84	182.92	7,795.05	-750.40	-38.28	751.27	0.00	0.00	0.00	
8,400.00	89.84	182.92	7,795.33	-850.27	-43.37	851.25	0.00	0.00	0.00	
8,500.00	89.84	182.92	7,795.62	-950.14	-48.46	951.24	0.00	0.00	0.00	
8,600.00	89.84	182.92	7,795.90	-1,050.01	-53.56	1,051.22	0.00	0.00	0.00	
8,700.00	89.84	182.92	7,796.19	-1,149.88	-58.65	1,151.21	0.00	0.00	0.00	
8,800.00	89.84	182.92	7,796.47	-1,249.75	-63.75	1,251.19	0.00	0.00	0.00	
8,900.00	89.84	182.92	7,796.75	-1,349.62	-68.84	1,351.18	0.00	0.00	0.00	
9,000.00	89.84	182.92	7,797.04	-1,449.49	-73.94	1,451.16	0.00	0.00	0.00	
9,100.00	89.84	182.92	7,797.32	-1,549.36	-79.03	1,551.15	0.00	0.00	0.00	
9,200.00	89.84	182.92	7,797.61	-1,649.23	-84.12	1,651.13	0.00	0.00	0.00	
9,300.00	89.84	182.92	7,797.89	-1,749.10	-89.22	1,751.12	0.00	0.00	0.00	
9,400.00	89.84	182.92	7,798.18	-1,848.97	-94.31	1,851.10	0.00	0.00	0.00	
9,500.00	89.84	182.92	7,798.46	-1,948.84	-99.41	1,951.09	0.00	0.00	0.00	
9,600.00	89.84	182.92	7,798.75	-2,048.71	-104.50	2,051.07	0.00	0.00	0.00	
9,700.00	89.84	182.92	7,799.03	-2,148.58	-109.59	2,151.06	0.00	0.00	0.00	
9,800.00	89.84	182.92	7,799.32	-2,248.45	-114.69	2,251.04	0.00	0.00	0.00	

Leam Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 9H
Company:	DEVON ENERGY	TVD Reference:	GE 3152' + KB 26' @ 3178.00usft (Original Well Elev)
Project:	Eddy County, NM (NAD-83)	MD Reference:	GE 3152' + KB 26' @ 3178.00usft (Original Well Elev)
Site:	Lone Tree Draw "13" State	North Reference:	Grid
Well:	9H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1 Draft 1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
9,900.00	89.84	182.92	7,799.60	-2,348.32	-119.78	2,351.03	0.00	0.00	0.00	
10,000.00	89.84	182.92	7,799.88	-2,448.19	-124.88	2,451.01	0.00	0.00	0.00	
10,041.96	89.84	182.92	7,800.00	-2,490.09	-127.01	2,492.97	0.00	0.00	0.00	
Start DLS 2.00 TFO 79.23 - T1 (LTDS 9H)										
10,100.00	90.05	184.06	7,800.06	-2,548.02	-130.55	2,551.00	2.00	0.37	1.96	
10,152.80	90.25	185.10	7,799.92	-2,600.65	-134.76	2,603.79	2.00	0.37	1.96	
Start 2034.57 hold at 10152.80 MD										
10,200.00	90.25	185.10	7,799.71	-2,647.67	-138.96	2,650.99	0.00	0.00	0.00	
10,300.00	90.25	185.10	7,799.27	-2,747.27	-147.84	2,750.96	0.00	0.00	0.00	
10,400.00	90.25	185.10	7,798.83	-2,846.87	-156.73	2,850.94	0.00	0.00	0.00	
10,500.00	90.25	185.10	7,798.40	-2,946.48	-165.61	2,950.92	0.00	0.00	0.00	
10,600.00	90.25	185.10	7,797.96	-3,046.08	-174.50	3,050.90	0.00	0.00	0.00	
10,700.00	90.25	185.10	7,797.52	-3,145.69	-183.38	3,150.87	0.00	0.00	0.00	
10,800.00	90.25	185.10	7,797.08	-3,245.29	-192.27	3,250.85	0.00	0.00	0.00	
10,900.00	90.25	185.10	7,796.64	-3,344.89	-201.15	3,350.83	0.00	0.00	0.00	
11,000.00	90.25	185.10	7,796.20	-3,444.50	-210.04	3,450.81	0.00	0.00	0.00	
11,100.00	90.25	185.10	7,795.77	-3,544.10	-218.92	3,550.78	0.00	0.00	0.00	
11,200.00	90.25	185.10	7,795.33	-3,643.70	-227.81	3,650.76	0.00	0.00	0.00	
11,300.00	90.25	185.10	7,794.89	-3,743.31	-236.69	3,750.74	0.00	0.00	0.00	
11,400.00	90.25	185.10	7,794.45	-3,842.91	-245.58	3,850.71	0.00	0.00	0.00	
11,500.00	90.25	185.10	7,794.01	-3,942.51	-254.47	3,950.69	0.00	0.00	0.00	
11,600.00	90.25	185.10	7,793.57	-4,042.12	-263.35	4,050.67	0.00	0.00	0.00	
11,700.00	90.25	185.10	7,793.14	-4,141.72	-272.24	4,150.65	0.00	0.00	0.00	
11,800.00	90.25	185.10	7,792.70	-4,241.32	-281.12	4,250.62	0.00	0.00	0.00	
11,900.00	90.25	185.10	7,792.26	-4,340.93	-290.01	4,350.60	0.00	0.00	0.00	
12,000.00	90.25	185.10	7,791.82	-4,440.53	-298.89	4,450.58	0.00	0.00	0.00	
12,100.00	90.25	185.10	7,791.38	-4,540.13	-307.78	4,550.55	0.00	0.00	0.00	
12,187.37	90.25	185.10	7,791.00	-4,627.16	-315.54	4,637.90	0.00	0.00	0.00	
TD at 12187.37 MD - PBHL (LTDS 9H)										

Design Targets										
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
SHL(LTDS 9H) - plan misses target center by 7221.58usft at 7221.58usft MD (7221.58 TVD, 0.00 N, 0.00 E) - Point	0.00	0.00	0.00	0.00	0.00	540,872.29	602,335.28	32° 29' 12.352 N	104° 8' 7.824 W	
PBHL (LTDS 9H) - plan hits target center - Point	0.00	0.00	7,791.00	-4,627.16	-315.54	536,245.13	602,019.74	32° 28' 26.569 N	104° 8' 11.608 W	
LP(LTDS 9H) - plan misses target center by 175.12usft at 7716.49usft MD (7657.20 TVD, -200.52 N, -10.23 E) - Point	0.00	0.00	7,793.00	-90.08	-4.81	540,782.21	602,330.48	32° 29' 11.461 N	104° 8' 7.882 W	
T1 (LTDS 9H) - plan misses target center by 0.02usft at 10041.96usft MD (7800.00 TVD, -2490.09 N, -127.01 E) - Point	0.00	0.00	7,800.00	-2,490.10	-126.99	538,382.20	602,208.29	32° 28' 47.714 N	104° 8' 9.360 W	

Leam Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 9H
Company:	DEVON ENERGY	TVD Reference:	GE 3152' + KB 26' @ 3178.00usft (Original Well Elev)
Project:	Eddy County, NM (NAD-83)	MD Reference:	GE 3152' + KB 26' @ 3178.00usft (Original Well Elev)
Site:	Lone Tree Draw "13" State	North Reference:	Grid
Well:	9H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1 Draft 1		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
0.00	0.00	Rustler		0.01		
327.00	327.00	Top Salt		0.01		
457.00	457.00	Base Salt		0.01		
643.00	643.00	Tansil		0.01		
777.00	777.00	Yates		0.01		
887.00	887.00	Seven Rivers		0.01		
2,677.00	2,677.00	Capitan		0.01		
2,740.00	2,740.00	Base of Capitan		0.01		
5,203.00	5,203.00	Delaware		0.01		
5,413.00	5,413.00	Lower Brushy Canyon		0.01		
5,556.00	5,556.00	Bone Spring Lime		0.01		
6,599.00	6,599.00	Avalon Sand		0.01		
6,837.00	6,837.00	1st Bone Spring Sand		0.01		
7,394.62	7,392.00	2nd Bone Spring Lime		0.01		
7,394.62	7,392.00	2nd Bone Spring Sand		0.01		
7,508.89	7,497.00	2BSSS Upper Top		0.01		
7,565.24	7,545.00	2BSSS Upper Base		0.01		
7,626.99	7,594.00	2BSSS Mid Top		0.01		
7,710.06	7,653.00	2BSSS Mid Base		0.01		

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
7,221.58	7,221.58	0.00	0.00	KOP: Start Build 10.00	
8,119.95	7,794.54	-570.59	-29.10	EOC: Start 1922.01 hold at 8119.95 MD	
10,041.96	7,800.00	-2,490.09	-127.01	Start DLS 2.00 TFO 79.23	
10,152.80	7,799.92	-2,600.65	-134.76	Start 2034.57 hold at 10152.80 MD	
12,187.37	7,791.00	-4,627.16	-315.54	TD at 12187.37' MD	

DEVON ENERGY

Eddy County, NM (NAD-83)
Lone Tree Draw "13" State
9H

OH
Plan #1 Draft 1

Anticollision Report

15 January, 2014

Leam Drilling Systems LLC
Anticollision Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 9H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3152' + KB 26' @ 3178.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3152' + KB 26' @ 3178.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	9H	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 Draft 1	Offset TVD Reference:	Reference Datum

Reference	Plan #1 Draft 1		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 10,000.00 usft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program	Date	01/15/14		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	12,187.37	Plan #1 Draft 1 (OH)	LEAM MWD-ADJ	MWD - Standard

Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Lone Tree Draw "13" State						
2H - OH - OH	4,518.02	4,562.99	4,233.67	4,213.17	206.591	CC, ES
2H - OH - OH	12,187.37	9,306.80	5,200.94	5,058.03	36.392	SF
2H - Pilot - Pilot	6,017.47	6,058.37	4,226.70	4,200.02	158.417	CC
2H - Pilot - Pilot	6,100.00	6,127.92	4,226.84	4,199.88	156.818	ES
2H - Pilot - Pilot	12,187.37	6,978.42	6,211.89	6,114.41	63.724	SF
4H - OH - OH	4,947.57	5,214.58	1,981.62	1,958.18	84.530	CC, ES
4H - OH - OH	12,187.37	9,523.07	3,141.43	3,046.45	33.078	SF
4H - Pilot - Pilot	7,532.57	7,617.35	2,040.92	2,011.06	68.330	CC
4H - Pilot - Pilot	7,550.00	7,629.24	2,040.97	2,011.05	68.207	ES
4H - Pilot - Pilot	12,187.37	7,876.00	5,063.06	4,964.08	51.149	SF
5H - OH - OH	4,888.91	4,952.38	639.15	619.86	33.132	CC, ES
5H - OH - OH	5,000.00	4,999.16	646.11	626.22	32.490	SF
6H - OH - Plan #1 Draft 1	12,187.37	12,370.13	4,039.57	3,864.99	23.139	CC, ES, SF
7H - OH - OH	12,187.37	12,424.21	2,997.73	2,829.79	17.850	CC, ES, SF
8H - OH - Plan #1	12,187.37	12,283.73	1,323.71	1,150.52	7.643	CC, ES, SF
Lone Tree Draw Offsets						
Lone Tree #1 - OH - OH	10,785.17	7,787.06	2,915.58	2,837.79	37.481	CC
Lone Tree #1 - OH - OH	10,800.00	7,786.89	2,915.62	2,837.58	37.358	ES
Lone Tree #1 - OH - OH	12,187.37	7,771.34	3,235.20	3,132.80	31.593	SF
Lone Tree Draw 13 State #3H - OH - OH	921.65	947.75	3,210.45	3,206.18	751.313	CC
Lone Tree Draw 13 State #3H - OH - OH	1,000.00	1,008.41	3,210.68	3,206.07	697.061	ES
Lone Tree Draw 13 State #3H - OH - OH	12,187.37	9,420.29	4,127.77	3,998.08	31.828	SF

Offset Design	Lone Tree Draw "13" State - 2H - OH - OH										Offset Site Error:	0.00 usft	
Survey Program:	80-NS-GYRO-MS, 4361-LEAM MWD, 9485-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	43.85	3.85	0.00	0.04	-88.22	133.57	-4,288.14	4,290.22				
100.00	100.00	148.81	108.81	0.08	0.25	-88.22	133.50	-4,287.97	4,290.06	4,289.72	0.34	N/A	
200.00	200.00	253.89	213.88	0.31	0.53	-88.22	133.37	-4,287.70	4,289.80	4,288.96	0.84	5,100.722	
300.00	300.00	356.76	316.76	0.53	0.81	-88.22	133.21	-4,287.34	4,289.44	4,288.10	1.34	3,204.092	

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 9H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3152' + KB 26' @ 3178.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3152' + KB 26' @ 3178.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	9H	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 Draft 1	Offset TVD Reference:	Reference Datum

Offset-Design Lone Tree Draw "13" State - 2H - OH - OH											Offset Site Error:	0.00 usft	
Survey Program: 80-NS-GYRO-MS: 4361-LEAM MWD, 9485-Project											Offset Well Error:	0.00 usft	
Reference		Offset		Semi Major Axis		Highside Tooface (")	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)			
400.00	400.00	465.66	425.65	0.76	1.10	-88.22	132.96	-4,286.81	4,288.95	4,287.09	1.85	2,315.271	
500.00	500.00	574.79	534.79	0.98	1.38	-88.23	132.57	-4,286.06	4,288.25	4,285.88	2.37	1,811.914	
600.00	600.00	684.85	644.84	1.21	1.68	-88.23	132.05	-4,285.04	4,287.31	4,284.43	2.88	1,487.222	
700.00	700.00	794.35	754.33	1.43	1.96	-88.25	131.13	-4,283.81	4,286.16	4,282.77	3.40	1,262.253	
800.00	800.00	910.60	870.56	1.66	2.27	-88.26	129.91	-4,282.18	4,284.73	4,280.80	3.93	1,091.168	
900.00	900.00	1,021.20	981.14	1.88	2.56	-88.28	128.52	-4,280.24	4,282.94	4,278.50	4.44	963.755	
1,000.00	1,000.00	1,124.98	1,084.88	2.11	2.84	-88.30	126.91	-4,278.27	4,281.00	4,276.06	4.94	866.242	
1,100.00	1,100.00	1,228.16	1,188.02	2.33	3.11	-88.33	124.88	-4,276.28	4,279.01	4,273.57	5.44	787.196	
1,200.00	1,200.00	1,341.52	1,301.31	2.56	3.40	-88.37	121.71	-4,273.77	4,276.71	4,270.75	5.95	718.419	
1,300.00	1,300.00	1,434.43	1,394.15	2.78	3.64	-88.41	118.94	-4,271.73	4,274.42	4,268.01	6.42	666.136	
1,400.00	1,400.00	1,524.93	1,484.60	3.01	3.87	-88.44	116.36	-4,269.89	4,272.31	4,265.43	6.87	621.431	
1,500.00	1,500.00	1,618.41	1,578.04	3.23	4.12	-88.47	114.18	-4,268.25	4,270.49	4,263.14	7.34	581.593	
1,600.00	1,600.00	1,729.28	1,688.87	3.45	4.41	-88.49	112.23	-4,266.03	4,268.43	4,260.57	7.86	543.048	
1,700.00	1,700.00	1,818.02	1,775.59	3.68	4.64	-88.51	111.11	-4,264.35	4,266.47	4,258.15	8.32	513.102	
1,800.00	1,800.00	1,899.07	1,858.63	3.90	4.86	-88.52	110.34	-4,263.10	4,264.93	4,256.17	8.76	486.873	
1,900.00	1,900.00	1,993.66	1,953.21	4.13	5.11	-88.53	109.63	-4,261.88	4,263.62	4,254.38	9.23	461.690	
2,000.00	2,000.00	2,094.60	2,054.13	4.35	5.38	-88.53	108.97	-4,260.68	4,262.41	4,252.69	9.73	438.231	
2,100.00	2,100.00	2,206.83	2,166.35	4.58	5.67	-88.55	107.97	-4,259.07	4,260.95	4,250.70	10.25	415.763	
2,200.00	2,200.00	2,308.84	2,268.34	4.80	5.94	-88.56	107.04	-4,257.47	4,259.36	4,248.62	10.74	396.457	
2,300.00	2,300.00	2,406.27	2,365.76	5.03	6.20	-88.57	106.18	-4,255.94	4,257.77	4,246.55	11.23	379.275	
2,400.00	2,400.00	2,500.18	2,459.65	5.25	6.45	-88.58	105.50	-4,254.57	4,256.30	4,244.60	11.70	363.832	
2,500.00	2,500.00	2,597.02	2,556.48	5.48	6.71	-88.59	104.90	-4,253.28	4,254.95	4,242.77	12.18	349.381	
2,600.00	2,600.00	2,695.44	2,654.89	5.70	6.97	-88.60	104.22	-4,252.00	4,253.64	4,240.97	12.66	335.897	
2,700.00	2,700.00	2,797.57	2,757.01	5.93	7.24	-88.61	103.48	-4,250.69	4,252.33	4,239.18	13.16	323.153	
2,800.00	2,800.00	2,905.78	2,865.20	6.15	7.52	-88.62	102.57	-4,249.17	4,250.91	4,237.24	13.67	310.950	
2,900.00	2,900.00	3,000.07	2,959.48	6.38	7.77	-88.63	101.79	-4,247.79	4,249.43	4,235.28	14.15	300.412	
3,000.00	3,000.00	3,098.52	3,057.92	6.60	8.03	-88.64	101.15	-4,246.45	4,248.05	4,233.42	14.63	290.369	
3,100.00	3,100.00	3,209.94	3,169.33	6.83	8.32	-88.64	100.61	-4,244.81	4,246.57	4,231.42	15.14	280.410	
3,200.00	3,200.00	3,319.67	3,278.04	7.05	8.60	-88.65	100.33	-4,242.85	4,244.77	4,229.12	15.64	271.325	
3,300.00	3,300.00	3,410.65	3,370.01	7.28	8.82	-88.64	100.35	-4,241.22	4,242.98	4,226.89	16.09	263.729	
3,400.00	3,400.00	3,494.12	3,453.46	7.50	9.01	-88.64	100.55	-4,240.02	4,241.55	4,225.04	16.51	256.984	
3,500.00	3,500.00	3,590.51	3,549.85	7.73	9.22	-88.64	100.89	-4,238.83	4,240.32	4,223.38	16.94	250.303	
3,600.00	3,600.00	3,682.79	3,642.12	7.95	9.41	-88.63	101.39	-4,237.82	4,239.24	4,221.89	17.35	244.328	
3,700.00	3,700.00	3,779.75	3,739.07	8.17	9.58	-88.62	102.21	-4,236.87	4,238.28	4,220.54	17.74	238.854	
3,800.00	3,800.00	3,875.50	3,834.81	8.40	9.73	-88.60	103.23	-4,236.02	4,237.42	4,219.30	18.12	233.861	
3,900.00	3,900.00	3,974.84	3,934.14	8.62	9.89	-88.59	104.21	-4,235.16	4,236.58	4,218.07	18.50	228.972	
4,000.00	4,000.00	4,064.84	4,024.14	8.85	10.03	-88.58	105.03	-4,234.54	4,235.91	4,217.04	18.87	224.483	
4,100.00	4,100.00	4,163.76	4,123.05	9.07	10.18	-88.57	105.89	-4,233.95	4,235.34	4,216.09	19.25	220.064	
4,200.00	4,200.00	4,258.36	4,217.65	9.30	10.32	-88.56	106.67	-4,233.48	4,234.87	4,215.25	19.61	215.920	
4,300.00	4,300.00	4,380.85	4,340.03	9.52	10.45	-88.58	104.62	-4,232.81	4,234.29	4,214.32	19.97	212.070	
4,400.00	4,400.00	4,447.53	4,406.22	9.75	10.46	-88.70	95.81	-4,232.66	4,233.75	4,213.55	20.20	209.637	
4,500.00	4,500.00	4,550.00	4,505.69	9.97	10.49	-89.03	72.01	-4,233.07	4,233.68	4,213.24	20.45	207.070	
4,518.02	4,518.02	4,562.99	4,518.02	10.01	10.49	-89.08	67.93	-4,233.12	4,233.67	4,213.17	20.49	206.591 CC, ES	
4,600.00	4,600.00	4,613.00	4,564.60	10.20	10.52	-89.33	49.76	-4,233.56	4,233.99	4,213.27	20.72	204.384	
4,700.00	4,700.00	4,665.60	4,611.88	10.42	10.57	-89.64	26.76	-4,234.42	4,235.42	4,214.41	21.01	201.612	
4,800.00	4,800.00	4,712.17	4,652.03	10.65	10.64	-89.96	3.21	-4,235.62	4,238.21	4,216.89	21.32	198.821	
4,900.00	4,900.00	4,771.00	4,699.53	10.87	10.78	-90.42	-31.38	-4,237.40	4,242.26	4,220.56	21.69	195.550	
5,000.00	5,000.00	4,802.00	4,722.71	11.10	10.88	-90.70	-51.93	-4,238.41	4,247.79	4,225.76	22.03	192.849	
5,100.00	5,100.00	4,833.00	4,744.74	11.32	11.00	-91.00	-73.69	-4,239.78	4,255.28	4,232.90	22.38	190.164	
5,200.00	5,200.00	4,833.00	4,744.74	11.55	11.00	-91.00	-73.69	-4,239.78	4,264.79	4,242.19	22.60	188.694	
5,300.00	5,300.00	4,865.00	4,766.38	11.77	11.14	-91.31	-97.18	-4,241.80	4,276.34	4,253.36	22.97	186.137	

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 9H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3152' + KB 26' @ 3178.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3152' + KB 26' @ 3178.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	9H	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 Draft 1	Offset TVD Reference:	Reference Datum

Offset Design													Offset Site Error:	0.00 usft
Lone Tree Draw "13" State - 2H - OH - OH													Offset Well Error:	0.00 usft
Survey Program: 80-NS-GYRO-MS, 4361-LEAM MWD, 9485-Project														
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 Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,400.00	5,400.00	4,855.00	4,766.38	12.00	11.14	-91.31	-97.18	-4,241.80	4,289.96	4,266.77	23.20	184.921		
5,500.00	5,500.00	4,897.00	4,786.43	12.22	11.30	-91.65	-121.97	-4,244.44	4,305.73	4,282.14	23.59	182.500		
5,600.00	5,600.00	4,897.00	4,786.43	12.45	11.30	-91.65	-121.97	-4,244.44	4,323.43	4,299.61	23.82	181.521		
5,700.00	5,700.00	4,897.00	4,786.43	12.67	11.30	-91.65	-121.97	-4,244.44	4,343.35	4,319.31	24.04	180.652		
5,800.00	5,800.00	4,928.00	4,804.14	12.89	11.48	-91.99	-147.22	-4,247.54	4,365.20	4,340.75	24.45	178.517		
5,900.00	5,900.00	4,938.25	4,809.66	13.12	11.55	-92.10	-155.78	-4,248.63	4,388.08	4,364.33	24.75	177.370		
6,000.00	6,000.00	4,960.00	4,820.83	13.34	11.69	-92.35	-174.31	-4,250.86	4,414.82	4,389.71	25.11	175.793		
6,100.00	6,100.00	4,978.53	4,829.83	13.57	11.83	-92.56	-190.40	-4,252.73	4,442.45	4,416.97	25.47	174.393		
6,200.00	6,200.00	4,991.00	4,835.63	13.79	11.92	-92.71	-201.37	-4,254.02	4,471.99	4,446.21	25.79	173.405		
6,300.00	6,300.00	5,005.17	4,841.95	14.02	12.03	-92.88	-213.96	-4,255.49	4,503.43	4,477.30	26.13	172.366		
6,400.00	6,400.00	5,023.00	4,849.48	14.24	12.18	-93.09	-230.01	-4,257.36	4,536.75	4,510.26	26.49	171.238		
6,500.00	6,500.00	5,023.00	4,849.48	14.47	12.18	-93.09	-230.01	-4,257.36	4,571.90	4,545.18	26.72	171.112		
6,600.00	6,600.00	5,023.00	4,849.48	14.69	12.18	-93.09	-230.01	-4,257.36	4,608.94	4,582.00	26.94	171.060		
6,700.00	6,700.00	5,054.00	4,861.09	14.92	12.45	-93.47	-258.57	-4,260.61	4,647.72	4,620.28	27.44	169.400		
6,800.00	6,800.00	5,054.00	4,861.09	15.14	12.45	-93.47	-258.57	-4,260.61	4,688.18	4,660.52	27.66	169.486		
6,900.00	6,900.00	5,054.00	4,861.09	15.37	12.45	-93.47	-258.57	-4,260.61	4,730.41	4,702.53	27.89	169.635		
7,000.00	7,000.00	5,054.00	4,861.09	15.59	12.45	-93.47	-258.57	-4,260.61	4,774.37	4,746.26	28.11	169.842		
7,100.00	7,100.00	5,054.00	4,861.09	15.82	12.45	-93.47	-258.57	-4,260.61	4,820.00	4,791.65	28.34	170.105		
7,200.00	7,200.00	5,068.48	4,865.77	16.04	12.59	-93.65	-272.18	-4,262.15	4,867.09	4,838.40	28.70	169.612		
7,221.58	7,221.58	5,069.36	4,866.04	16.09	12.60	-93.67	-273.01	-4,262.24	4,877.48	4,848.73	28.75	169.638		
7,250.00	7,249.99	5,070.59	4,866.41	16.15	12.61	81.85	-274.18	-4,262.38	4,891.19	4,862.50	28.69	170.483		
7,300.00	7,299.76	5,086.00	4,870.79	16.23	12.76	78.97	-288.86	-4,264.06	4,915.30	4,886.43	28.87	170.278		
7,350.00	7,348.93	5,086.00	4,870.79	16.32	12.76	76.36	-288.86	-4,264.06	4,938.88	4,910.00	28.88	171.007		
7,400.00	7,397.13	5,086.00	4,870.79	16.40	12.76	73.85	-288.86	-4,264.06	4,961.95	4,933.04	28.91	171.623		
7,450.00	7,444.00	5,086.00	4,870.79	16.49	12.76	71.46	-288.86	-4,264.06	4,984.34	4,955.39	28.95	172.152		
7,500.00	7,489.17	5,086.00	4,870.79	16.57	12.76	69.21	-288.86	-4,264.06	5,005.89	4,976.92	28.97	172.820		
7,550.00	7,532.31	5,086.00	4,870.79	16.66	12.76	67.12	-288.86	-4,264.06	5,026.44	4,997.50	28.94	173.656		
7,600.00	7,573.08	5,102.40	4,874.96	16.77	12.92	65.08	-304.61	-4,265.89	5,045.72	5,016.71	29.02	173.878		
7,650.00	7,611.18	5,117.00	4,878.36	16.91	13.07	63.26	-318.71	-4,267.54	5,063.73	5,034.69	29.04	174.352		
7,700.00	7,646.31	5,117.00	4,878.36	17.07	13.07	61.71	-318.71	-4,267.54	5,080.22	5,051.29	28.93	175.604		
7,750.00	7,678.21	5,117.00	4,878.36	17.26	13.07	60.34	-318.71	-4,267.54	5,095.20	5,066.39	28.81	176.871		
7,800.00	7,706.64	5,132.93	4,881.72	17.48	13.24	59.09	-334.17	-4,269.37	5,108.40	5,079.58	28.82	177.226		
7,850.00	7,731.37	5,149.00	4,884.69	17.74	13.42	58.05	-349.86	-4,271.26	5,119.91	5,091.04	28.87	177.336		
7,900.00	7,752.22	5,149.00	4,884.69	18.03	13.42	57.22	-349.86	-4,271.26	5,129.47	5,100.64	28.83	177.912		
7,950.00	7,769.04	5,149.00	4,884.69	18.36	13.42	56.57	-349.86	-4,271.26	5,137.18	5,108.32	28.86	178.022		
8,000.00	7,781.69	5,181.00	4,889.50	18.73	13.78	56.08	-381.27	-4,274.97	5,142.82	5,113.56	29.27	175.719		
8,050.00	7,790.07	5,181.00	4,889.50	19.13	13.78	55.78	-381.27	-4,274.97	5,146.38	5,116.90	29.48	174.586		
8,100.00	7,794.13	5,202.08	4,891.98	19.56	14.03	55.68	-402.07	-4,277.31	5,147.86	5,117.85	30.01	171.558		
8,119.95	7,794.54	5,212.00	4,892.98	19.74	14.15	55.69	-411.89	-4,278.35	5,147.85	5,117.58	30.27	170.092		
8,200.00	7,794.76	5,244.00	4,895.58	20.51	14.54	55.72	-443.61	-4,281.66	5,147.59	5,116.33	31.26	164.687		
8,201.52	7,794.77	5,244.00	4,895.58	20.53	14.54	55.72	-443.61	-4,281.66	5,147.59	5,116.32	31.27	164.615		
8,300.00	7,795.05	5,244.00	4,895.58	21.58	14.54	55.72	-443.61	-4,281.66	5,148.53	5,116.37	32.16	160.110		
8,400.00	7,795.33	5,260.22	4,896.33	22.73	14.74	55.73	-459.71	-4,283.38	5,151.16	5,117.84	33.32	154.612		
8,500.00	7,795.62	5,275.00	4,896.47	23.97	14.93	55.74	-474.40	-4,285.06	5,155.59	5,121.06	34.53	149.302		
8,600.00	7,795.90	5,275.00	4,896.47	25.28	14.93	55.74	-474.40	-4,285.06	5,161.75	5,126.10	35.65	144.806		
8,700.00	7,796.19	5,332.26	4,895.14	26.65	15.65	55.75	-531.19	-4,292.23	5,169.33	5,131.90	37.43	138.093		
8,800.00	7,796.47	5,899.08	4,900.67	28.07	23.39	55.97	-1,094.42	-4,349.65	5,174.82	5,129.50	45.32	114.190		
8,900.00	7,796.75	6,058.00	4,904.84	29.54	25.74	56.00	-1,253.08	-4,357.67	5,173.65	5,125.08	48.57	106.524		
9,000.00	7,797.04	6,101.55	4,906.30	31.04	26.42	56.01	-1,296.64	-4,359.82	5,171.90	5,121.48	50.42	102.568		
9,100.00	7,797.32	6,152.00	4,907.46	32.57	27.19	56.03	-1,346.89	-4,362.92	5,171.46	5,119.07	52.40	98.699		

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 9H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3152' + KB 26' @ 3178.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3152' + KB 26' @ 3178.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	9H	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 Draft 1	Offset TVD Reference:	Reference Datum

Offset Design Lone Tree Draw "13" State - 2H - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 80-INS-GYRO-MS, 4361-LEAM MWD, 9485-Project													Offset Well Error:	0.00 usft
Reference	Offset		Semi Major Axis		Highside Tooface (")	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)	
9,107.80	7,797.35	6,152.00	4,907.46	32.69	27.19	56.03	-1,346.89	-4,362.92	5,171.46	5,118.96	52.50	98.503		
9,200.00	7,797.61	6,152.00	4,907.46	34.13	27.19	56.03	-1,346.89	-4,362.92	5,172.28	5,118.54	53.73	96.258		
9,300.00	7,797.89	6,190.89	4,907.79	35.72	27.82	56.03	-1,385.67	-4,365.88	5,174.42	5,118.79	55.63	93.019		
9,400.00	7,798.18	6,247.00	4,907.05	37.32	28.72	56.04	-1,441.51	-4,371.28	5,178.53	5,120.75	57.78	89.632		
9,500.00	7,798.46	6,625.00	4,906.81	38.95	34.76	56.05	-1,818.60	-4,394.17	5,179.15	5,114.89	64.26	80.596		
9,600.00	7,798.75	6,662.26	4,907.11	40.59	35.37	56.05	-1,855.82	-4,395.66	5,178.11	5,111.93	66.18	78.243		
9,614.70	7,798.79	6,666.52	4,907.13	40.83	35.44	56.05	-1,860.18	-4,395.88	5,178.07	5,111.63	66.45	77.026		
9,700.00	7,799.03	6,719.00	4,907.22	42.25	36.29	56.05	-1,912.45	-4,399.17	5,178.68	5,110.30	68.38	75.732		
9,800.00	7,799.32	6,719.00	4,907.22	43.91	36.29	56.05	-1,912.45	-4,399.17	5,180.14	5,110.33	69.81	74.200		
9,900.00	7,799.60	6,797.02	4,907.25	45.59	37.57	56.07	-1,990.22	-4,405.41	5,182.71	5,110.37	72.34	71.641		
10,000.00	7,799.88	6,864.74	4,907.36	47.28	38.69	56.08	-2,057.69	-4,411.36	5,185.86	5,111.11	74.75	69.375		
10,041.96	7,800.00	6,892.64	4,907.29	48.00	39.15	56.09	-2,085.47	-4,413.89	5,187.37	5,111.61	75.76	68.473		
10,100.00	7,800.06	6,985.13	4,906.98	48.94	40.88	56.11	-2,177.59	-4,422.16	5,188.94	5,111.00	77.93	66.581		
10,152.80	7,799.92	7,033.46	4,906.85	49.77	41.48	56.12	-2,225.74	-4,426.25	5,189.10	5,109.75	79.35	65.393		
10,200.00	7,799.71	7,085.44	4,906.87	50.54	42.01	56.12	-2,257.59	-4,429.04	5,188.98	5,108.51	80.47	64.484		
10,216.56	7,799.64	7,076.66	4,906.82	50.82	42.20	56.12	-2,268.77	-4,430.03	5,188.97	5,108.10	80.87	64.164		
10,300.00	7,799.27	7,098.00	4,906.73	52.24	42.55	56.12	-2,290.03	-4,431.95	5,189.36	5,106.97	82.39	62.982		
10,400.00	7,798.83	7,156.71	4,906.04	53.96	43.55	56.12	-2,348.46	-4,437.65	5,190.66	5,105.95	84.72	61.270		
10,500.00	7,798.40	7,193.00	4,905.23	55.68	44.17	56.11	-2,384.53	-4,441.55	5,193.25	5,106.53	86.72	59.884		
10,600.00	7,797.96	7,287.00	4,902.69	57.40	45.77	56.11	-2,477.89	-4,452.19	5,196.54	5,106.97	88.57	58.015		
10,700.00	7,797.52	7,350.30	4,900.78	59.13	46.86	56.10	-2,540.72	-4,459.57	5,200.28	5,108.29	91.99	56.534		
10,800.00	7,797.08	7,646.55	4,900.16	60.86	51.75	56.16	-2,834.95	-4,493.59	5,202.11	5,104.39	97.72	53.237		
10,900.00	7,796.64	7,740.61	4,902.44	62.60	53.30	56.20	-2,928.38	-4,504.15	5,202.47	5,101.90	100.57	51.728		
11,000.00	7,796.20	7,808.85	4,904.29	64.34	54.44	56.23	-2,996.13	-4,512.13	5,203.10	5,100.02	103.08	50.476		
11,100.00	7,795.77	7,878.10	4,906.03	66.09	55.60	56.26	-3,064.82	-4,520.79	5,204.45	5,098.84	105.61	49.278		
11,200.00	7,795.33	7,969.55	4,908.49	67.84	57.14	56.31	-3,155.47	-4,532.54	5,206.05	5,097.56	108.40	47.986		
11,300.00	7,794.89	8,045.00	4,910.51	69.59	58.41	56.35	-3,230.21	-4,542.73	5,208.15	5,097.01	111.14	46.862		
11,400.00	7,794.45	8,152.71	4,913.53	71.35	60.21	56.42	-3,336.86	-4,557.50	5,210.41	5,096.14	114.27	45.566		
11,500.00	7,794.01	8,366.76	4,916.71	73.11	63.76	56.49	-3,548.46	-4,581.93	5,211.56	5,092.64	118.92	43.826		
11,511.01	7,793.96	8,372.15	4,916.72	73.30	63.85	56.49	-3,554.82	-4,582.43	5,211.55	5,092.39	119.16	43.735		
11,600.00	7,793.57	8,423.00	4,916.46	74.87	64.71	56.49	-3,605.44	-4,587.23	5,211.65	5,090.70	121.25	42.987		
11,700.00	7,793.14	8,569.85	4,914.16	76.63	67.17	56.47	-3,750.75	-4,599.50	5,212.15	5,087.31	124.84	41.750		
11,800.00	7,792.70	8,802.00	4,912.74	78.40	71.11	56.43	-3,983.40	-4,614.58	5,209.56	5,079.90	129.66	40.179		
11,900.00	7,792.26	8,802.00	4,912.74	80.16	71.11	56.43	-3,983.40	-4,614.58	5,207.82	5,076.64	131.18	39.698		
12,000.00	7,791.82	8,865.05	4,912.56	81.93	72.19	56.43	-4,048.27	-4,619.30	5,206.88	5,073.25	133.63	38.966		
12,100.00	7,791.38	9,244.96	4,918.62	83.71	78.61	56.48	-4,424.89	-4,647.88	5,205.46	5,064.78	140.67	37.006		
12,187.37	7,791.00	9,306.80	4,922.05	85.25	79.66	56.49	-4,486.58	-4,651.34	5,200.94	5,058.03	142.91	36.392 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 9H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3152' + KB 26' @ 3178.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3152' + KB 26' @ 3178.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	9H	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 Draft 1	Offset TVD Reference:	Reference Datum

Offset Design													Offset Site Error:	0.00 usft
Lone Tree Draw "13" State - 2H - Pilot - Pilot													Offset Well Error:	0.00 usft
Survey Program: 80-NS-GYRO-MS														
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 Tooface (")	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	43.85	3.85	0.00	0.04	-88.22	133.57	-4,288.14	4,290.22					
100.00	100.00	148.81	108.81	0.08	0.25	-88.22	133.50	-4,287.97	4,290.06	4,289.72	0.34	N/A		
200.00	200.00	253.89	213.88	0.31	0.53	-88.22	133.37	-4,287.70	4,289.80	4,288.96	0.84	5,100.721		
300.00	300.00	356.76	316.76	0.53	0.81	-88.22	133.21	-4,287.34	4,289.44	4,288.10	1.34	3,204.092		
400.00	400.00	465.66	425.65	0.76	1.10	-88.22	132.96	-4,286.81	4,288.95	4,287.09	1.85	2,315.272		
500.00	500.00	574.79	534.79	0.98	1.38	-88.23	132.57	-4,286.06	4,288.25	4,285.88	2.37	1,811.916		
600.00	600.00	684.85	644.84	1.21	1.68	-88.23	132.05	-4,285.04	4,287.31	4,284.43	2.88	1,487.224		
700.00	700.00	794.35	754.33	1.43	1.96	-88.25	131.13	-4,283.81	4,286.16	4,282.77	3.40	1,282.257		
800.00	800.00	910.60	870.56	1.66	2.27	-88.26	129.91	-4,282.18	4,284.73	4,280.80	3.93	1,091.173		
900.00	900.00	1,021.20	981.14	1.88	2.56	-88.28	128.52	-4,280.24	4,282.94	4,278.50	4.44	963.761		
1,000.00	1,000.00	1,124.98	1,084.88	2.11	2.84	-88.30	126.91	-4,278.27	4,281.00	4,276.06	4.94	866.250		
1,100.00	1,100.00	1,228.16	1,188.02	2.33	3.11	-88.33	124.88	-4,276.28	4,279.01	4,273.57	5.44	787.206		
1,200.00	1,200.00	1,341.52	1,301.31	2.56	3.40	-88.37	121.71	-4,273.77	4,276.71	4,270.75	5.95	718.432		
1,300.00	1,300.00	1,434.43	1,394.15	2.78	3.64	-88.41	118.94	-4,271.73	4,274.42	4,268.01	6.42	666.151		
1,400.00	1,400.00	1,524.93	1,484.60	3.01	3.87	-88.44	116.36	-4,269.89	4,272.31	4,265.43	6.87	621.447		
1,500.00	1,500.00	1,618.41	1,578.04	3.23	4.12	-88.47	114.18	-4,268.25	4,270.49	4,263.14	7.34	581.610		
1,600.00	1,600.00	1,729.28	1,688.87	3.45	4.41	-88.49	112.23	-4,266.03	4,268.43	4,260.57	7.86	543.064		
1,700.00	1,700.00	1,816.02	1,775.59	3.68	4.64	-88.51	111.11	-4,264.35	4,266.47	4,258.15	8.31	513.118		
1,800.00	1,800.00	1,899.07	1,858.63	3.90	4.86	-88.52	110.34	-4,263.10	4,264.93	4,256.17	8.76	486.888		
1,900.00	1,900.00	1,983.66	1,953.21	4.13	5.11	-88.53	109.63	-4,261.88	4,263.62	4,254.38	9.23	461.704		
2,000.00	2,000.00	2,094.60	2,054.13	4.35	5.38	-88.53	108.97	-4,260.68	4,262.41	4,252.69	9.73	438.244		
2,100.00	2,100.00	2,206.83	2,166.35	4.58	5.67	-88.55	107.97	-4,259.07	4,260.95	4,250.70	10.25	415.775		
2,200.00	2,200.00	2,308.84	2,268.34	4.80	5.94	-88.56	107.04	-4,257.47	4,259.36	4,248.62	10.74	396.468		
2,300.00	2,300.00	2,406.27	2,365.76	5.03	6.20	-88.57	106.18	-4,255.94	4,257.77	4,246.55	11.23	379.286		
2,400.00	2,400.00	2,500.18	2,459.65	5.25	6.45	-88.58	105.50	-4,254.57	4,256.30	4,244.60	11.70	363.843		
2,500.00	2,500.00	2,597.02	2,556.48	5.48	6.71	-88.59	104.90	-4,253.28	4,254.95	4,242.77	12.18	349.390		
2,600.00	2,600.00	2,695.44	2,654.89	5.70	6.97	-88.60	104.22	-4,252.00	4,253.64	4,240.97	12.66	335.906		
2,700.00	2,700.00	2,797.57	2,757.01	5.93	7.24	-88.61	103.48	-4,250.69	4,252.33	4,239.18	13.16	323.162		
2,800.00	2,800.00	2,905.78	2,865.20	6.15	7.52	-88.62	102.57	-4,249.17	4,250.91	4,237.24	13.67	310.958		
2,900.00	2,900.00	3,000.07	2,959.48	6.38	7.77	-88.63	101.79	-4,247.79	4,249.43	4,235.28	14.14	300.420		
3,000.00	3,000.00	3,098.52	3,057.92	6.60	8.03	-88.64	101.15	-4,246.45	4,248.05	4,233.42	14.63	290.377		
3,100.00	3,100.00	3,209.94	3,169.33	6.83	8.32	-88.64	100.61	-4,244.81	4,246.57	4,231.42	15.14	280.417		
3,200.00	3,200.00	3,319.87	3,279.04	7.05	8.60	-88.65	100.33	-4,242.85	4,244.77	4,229.12	15.64	271.331		
3,300.00	3,300.00	3,410.65	3,370.01	7.28	8.82	-88.64	100.35	-4,241.22	4,242.98	4,226.89	16.09	263.736		
3,400.00	3,400.00	3,494.12	3,453.46	7.50	9.01	-88.64	100.55	-4,240.02	4,241.55	4,225.04	16.50	256.991		
3,500.00	3,500.00	3,590.51	3,549.85	7.73	9.22	-88.64	100.89	-4,238.83	4,240.32	4,223.38	16.94	250.309		
3,600.00	3,600.00	3,682.79	3,642.12	7.95	9.41	-88.63	101.39	-4,237.82	4,239.24	4,221.89	17.35	244.334		
3,700.00	3,700.00	3,778.75	3,739.07	8.17	9.58	-88.62	102.21	-4,236.87	4,238.28	4,220.54	17.74	238.859		
3,800.00	3,800.00	3,875.50	3,834.81	8.40	9.73	-88.60	103.23	-4,236.02	4,237.42	4,219.30	18.12	233.866		
3,900.00	3,900.00	3,974.84	3,934.14	8.62	9.89	-88.59	104.21	-4,235.16	4,236.58	4,218.07	18.50	228.977		
4,000.00	4,000.00	4,064.84	4,024.14	8.85	10.03	-88.58	105.03	-4,234.54	4,235.91	4,217.04	18.87	224.487		
4,100.00	4,100.00	4,163.76	4,123.05	9.07	10.18	-88.57	105.89	-4,233.95	4,235.34	4,216.09	19.25	220.068		
4,200.00	4,200.00	4,258.36	4,217.65	9.30	10.32	-88.56	106.67	-4,233.48	4,234.87	4,215.25	19.61	215.924		
4,300.00	4,300.00	4,356.88	4,316.17	9.52	10.47	-88.55	107.49	-4,233.07	4,234.47	4,214.49	19.98	211.922		
4,400.00	4,400.00	4,458.96	4,416.24	9.75	10.62	-88.53	108.27	-4,232.67	4,234.09	4,213.73	20.36	207.994		
4,500.00	4,500.00	4,556.66	4,515.94	9.97	10.77	-88.52	109.04	-4,232.26	4,233.70	4,212.96	20.74	204.164		
4,600.00	4,600.00	4,653.10	4,612.37	10.20	10.92	-88.51	109.79	-4,231.92	4,233.36	4,212.25	21.11	200.544		
4,700.00	4,700.00	4,747.51	4,706.78	10.42	11.05	-88.50	110.49	-4,231.68	4,233.13	4,211.66	21.47	197.180		
4,800.00	4,800.00	4,842.50	4,801.77	10.65	11.17	-88.49	111.22	-4,231.58	4,233.04	4,211.23	21.81	194.063		
4,900.00	4,900.00	4,943.39	4,902.65	10.87	11.30	-88.48	112.15	-4,231.52	4,233.01	4,210.85	22.16	191.034		
5,000.00	5,000.00	5,059.79	5,019.05	11.10	11.45	-88.46	113.66	-4,231.25	4,232.82	4,210.27	22.54	187.765		

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 9H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3152' + KB 26' @ 3178.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3152' + KB 26' @ 3178.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	9H	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 Draft 1	Offset TVD Reference:	Reference Datum

Offset Design											Offset Site Error:	0.00 usft	
Lone Tree Draw "13" State - 2H - Pilot - Pilot											Offset Well Error:	0.00 usft	
Survey Program: 80-NS-GYRO-MS													
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (")	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,100.00	5,173.52	5,132.76	11.32	11.64	-88.43	115.63	-4,230.46	4,232.17	4,209.21	22.96	184.361	
5,200.00	5,200.00	5,277.42	5,236.63	11.55	11.83	-88.41	117.67	-4,229.52	4,231.31	4,207.95	23.37	181.089	
5,300.00	5,300.00	5,371.92	5,331.11	11.77	12.00	-88.38	119.54	-4,228.75	4,230.55	4,206.80	23.76	178.073	
5,400.00	5,400.00	5,462.09	5,421.26	12.00	12.15	-88.36	121.30	-4,228.21	4,230.00	4,205.87	24.13	175.268	
5,500.00	5,500.00	5,564.63	5,523.78	12.22	12.32	-88.33	123.34	-4,227.60	4,229.47	4,204.94	24.54	172.384	
5,600.00	5,600.00	5,658.78	5,617.92	12.45	12.49	-88.31	124.84	-4,227.11	4,228.99	4,204.06	24.93	169.641	
5,700.00	5,700.00	5,773.92	5,733.05	12.67	12.74	-88.29	125.81	-4,226.33	4,228.33	4,202.92	25.40	166.446	
5,800.00	5,800.00	5,869.66	5,828.78	12.89	12.97	-88.30	125.68	-4,225.63	4,227.59	4,201.74	25.85	163.525	
5,900.00	5,900.00	5,961.35	5,920.47	13.12	13.15	-88.31	124.87	-4,225.09	4,226.98	4,200.72	26.27	160.936	
6,000.00	6,000.00	6,043.93	6,003.04	13.34	13.29	-88.32	123.81	-4,224.89	4,226.70	4,200.08	26.62	158.759	
6,017.47	6,017.47	6,058.37	6,017.48	13.38	13.31	-88.32	123.60	-4,224.89	4,226.70	4,200.02	26.68	158.417	CC
6,100.00	6,100.00	6,127.92	6,087.02	13.57	13.39	-88.34	122.60	-4,225.04	4,226.84	4,199.88	26.95	156.818	ES
6,200.00	6,200.00	6,203.74	6,162.83	13.79	13.46	-88.35	121.56	-4,225.53	4,227.45	4,200.20	27.24	155.169	
6,300.00	6,300.00	6,285.87	6,224.85	14.02	13.49	-88.36	120.87	-4,226.34	4,228.73	4,201.23	27.50	153.746	
6,400.00	6,400.00	6,325.99	6,285.05	14.24	13.52	-88.37	120.54	-4,227.73	4,231.01	4,203.25	27.76	152.439	
6,500.00	6,500.00	6,411.42	6,370.45	14.47	13.55	-88.38	119.71	-4,230.25	4,233.93	4,205.92	28.01	151.164	
6,600.00	6,600.00	6,538.80	6,497.76	14.69	13.62	-88.41	117.34	-4,233.73	4,236.59	4,208.29	28.31	149.672	
6,700.00	6,700.00	6,655.12	6,614.01	14.92	13.71	-88.45	114.57	-4,236.51	4,238.93	4,210.32	28.62	148.125	
6,800.00	6,800.00	6,772.94	6,731.79	15.14	13.80	-88.48	112.34	-4,238.63	4,240.67	4,211.73	28.94	146.541	
6,900.00	6,900.00	6,848.07	6,806.89	15.37	13.86	-88.50	111.11	-4,240.03	4,242.51	4,213.29	29.22	145.177	
7,000.00	7,000.00	6,931.63	6,890.41	15.59	13.92	-88.52	109.68	-4,242.15	4,244.96	4,215.48	29.51	143.844	
7,100.00	7,100.00	6,978.42	6,937.18	15.82	13.96	-88.53	108.94	-4,243.38	4,247.90	4,218.13	29.77	142.689	
7,200.00	7,200.00	6,978.42	6,937.18	16.04	13.96	-88.53	108.94	-4,243.38	4,252.91	4,222.92	30.00	141.787	
7,221.58	7,221.58	6,978.42	6,937.18	16.09	13.96	-88.53	108.94	-4,243.38	4,254.30	4,224.26	30.04	141.604	
7,250.00	7,249.99	6,978.42	6,937.18	16.15	13.96	88.35	108.94	-4,243.38	4,256.27	4,226.18	30.10	141.413	
7,300.00	7,299.76	6,978.42	6,937.18	16.23	13.96	87.97	108.94	-4,243.38	4,260.11	4,229.93	30.18	141.167	
7,350.00	7,348.93	6,978.42	6,937.18	16.32	13.96	87.54	108.94	-4,243.38	4,264.37	4,234.11	30.26	140.946	
7,400.00	7,397.13	6,978.42	6,937.18	16.40	13.96	87.07	108.94	-4,243.38	4,269.02	4,238.89	30.33	140.743	
7,450.00	7,444.00	6,978.42	6,937.18	16.49	13.96	86.57	108.94	-4,243.38	4,274.04	4,243.63	30.41	140.549	
7,500.00	7,489.17	6,978.42	6,937.18	16.57	13.96	86.04	108.94	-4,243.38	4,279.37	4,248.88	30.48	140.350	
7,550.00	7,532.31	6,978.42	6,937.18	16.66	13.96	85.47	108.94	-4,243.38	4,284.98	4,254.40	30.58	140.130	
7,600.00	7,573.08	6,978.42	6,937.18	16.77	13.96	84.89	108.94	-4,243.38	4,290.83	4,260.15	30.68	139.874	
7,650.00	7,611.18	6,978.42	6,937.18	16.91	13.96	84.28	108.94	-4,243.38	4,296.96	4,266.07	30.79	139.563	
7,700.00	7,646.31	6,978.42	6,937.18	17.07	13.96	83.66	108.94	-4,243.38	4,303.03	4,272.11	30.92	139.181	
7,750.00	7,678.21	6,978.42	6,937.18	17.26	13.96	83.04	108.94	-4,243.38	4,309.30	4,278.23	31.07	138.771	
7,800.00	7,706.64	6,978.42	6,937.18	17.48	13.96	82.40	108.94	-4,243.38	4,315.61	4,284.37	31.24	138.140	
7,850.00	7,731.37	6,978.42	6,937.18	17.74	13.96	81.77	108.94	-4,243.38	4,321.92	4,290.48	31.44	137.454	
7,900.00	7,752.22	6,978.42	6,937.18	18.03	13.96	81.15	108.94	-4,243.38	4,328.19	4,296.51	31.67	136.646	
7,950.00	7,769.04	6,978.42	6,937.18	18.36	13.96	80.54	108.94	-4,243.38	4,334.35	4,302.41	31.94	135.710	
8,000.00	7,781.69	6,978.42	6,937.18	18.73	13.96	79.94	108.94	-4,243.38	4,340.37	4,308.13	32.24	134.646	
8,050.00	7,790.07	6,978.42	6,937.18	19.13	13.96	79.36	108.94	-4,243.38	4,346.20	4,313.63	32.57	133.458	
8,100.00	7,794.13	6,978.42	6,937.18	19.56	13.96	78.81	108.94	-4,243.38	4,351.80	4,318.87	32.93	132.154	
8,119.95	7,794.54	6,978.42	6,937.18	19.74	13.96	78.59	108.94	-4,243.38	4,353.96	4,320.88	33.08	131.604	
8,200.00	7,794.76	6,978.42	6,937.18	20.51	13.96	78.59	108.94	-4,243.38	4,363.26	4,329.42	33.84	128.936	
8,300.00	7,795.05	6,978.42	6,937.18	21.58	13.96	78.59	108.94	-4,243.38	4,376.91	4,342.02	34.88	125.471	
8,400.00	7,795.33	6,978.42	6,937.18	22.73	13.96	78.59	108.94	-4,243.38	4,392.79	4,356.77	36.02	121.950	
8,500.00	7,795.62	6,978.42	6,937.18	23.97	13.96	78.59	108.94	-4,243.38	4,410.88	4,373.65	37.24	118.446	
8,600.00	7,795.90	6,978.42	6,937.18	25.28	13.96	78.59	108.94	-4,243.38	4,431.16	4,392.64	38.53	115.016	
8,700.00	7,796.19	6,978.42	6,937.18	26.65	13.96	78.59	108.94	-4,243.38	4,453.59	4,413.72	39.87	111.696	
8,800.00	7,796.47	6,978.42	6,937.18	28.07	13.96	78.59	108.94	-4,243.38	4,478.14	4,436.88	41.27	108.513	

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' 9H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3152' + KB 26' @ 3178.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3152' + KB 26' @ 3178.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	9H	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 Draft 1	Offset TVD Reference:	Reference Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 80-NS-GYRO-MS													Offset Well Error:	0.00 usft
Reference: Lone Tree Draw "13" State - 2H - Pilot - Pilot														
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
				Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
8,900.00	7,796.75	6,978.42	6,937.18	29.54	13.96	78.59	108.94	-4,243.38	4,504.78	4,462.08	42.71	105.481		
9,000.00	7,797.04	6,978.42	6,937.18	31.04	13.96	78.59	108.94	-4,243.38	4,533.47	4,489.29	44.18	102.607		
9,100.00	7,797.32	6,978.42	6,937.18	32.57	13.96	78.59	108.94	-4,243.38	4,564.17	4,518.48	45.69	99.894		
9,200.00	7,797.61	6,978.42	6,937.18	34.13	13.96	78.59	108.94	-4,243.38	4,596.84	4,549.61	47.23	97.339		
9,300.00	7,797.89	6,978.42	6,937.18	35.72	13.96	78.59	108.94	-4,243.38	4,631.44	4,582.65	48.78	94.938		
9,400.00	7,798.18	6,978.42	6,937.18	37.32	13.96	78.59	108.94	-4,243.38	4,667.92	4,617.56	50.36	92.685		
9,500.00	7,798.46	6,978.42	6,937.18	38.95	13.96	78.59	108.94	-4,243.38	4,706.25	4,654.29	51.96	90.573		
9,600.00	7,798.75	6,978.42	6,937.18	40.59	13.96	78.59	108.94	-4,243.38	4,746.38	4,692.80	53.57	88.593		
9,700.00	7,799.03	6,978.42	6,937.18	42.25	13.96	78.59	108.94	-4,243.38	4,788.25	4,733.05	55.20	86.739		
9,800.00	7,799.32	6,978.42	6,937.18	43.91	13.96	78.59	108.94	-4,243.38	4,831.84	4,775.00	56.84	85.002		
9,800.00	7,799.60	6,978.42	6,937.18	45.58	13.96	78.59	108.94	-4,243.38	4,877.08	4,818.59	58.50	83.376		
10,000.00	7,799.88	6,978.42	6,937.18	47.28	13.96	78.59	108.94	-4,243.38	4,923.95	4,863.79	60.16	81.851		
10,041.96	7,800.00	6,978.42	6,937.18	48.00	13.96	78.59	108.94	-4,243.38	4,944.08	4,883.22	60.86	81.241		
10,100.00	7,800.06	6,978.42	6,937.18	48.94	13.96	78.60	108.94	-4,243.38	4,971.86	4,910.08	61.78	80.478		
10,152.80	7,799.92	6,978.42	6,937.18	49.77	13.96	78.61	108.94	-4,243.38	4,996.69	4,934.12	62.57	79.858		
10,200.00	7,799.71	6,978.42	6,937.18	50.54	13.96	78.61	108.94	-4,243.38	5,018.88	4,955.55	63.33	79.251		
10,300.00	7,799.27	6,978.42	6,937.18	52.24	13.96	78.61	108.94	-4,243.38	5,067.01	5,002.00	65.01	77.946		
10,400.00	7,798.83	6,978.42	6,937.18	53.96	13.96	78.61	108.94	-4,243.38	5,116.64	5,049.95	66.69	76.721		
10,500.00	7,798.40	6,978.42	6,937.18	55.68	13.96	78.61	108.94	-4,243.38	5,167.73	5,099.35	68.38	75.571		
10,600.00	7,797.96	6,978.42	6,937.18	57.40	13.96	78.61	108.94	-4,243.38	5,220.24	5,150.16	70.08	74.491		
10,700.00	7,797.52	6,978.42	6,937.18	59.13	13.96	78.61	108.94	-4,243.38	5,274.12	5,202.34	71.78	73.476		
10,800.00	7,797.08	6,978.42	6,937.18	60.86	13.96	78.61	108.94	-4,243.38	5,329.33	5,255.85	73.49	72.521		
10,900.00	7,796.64	6,978.42	6,937.18	62.60	13.96	78.61	108.94	-4,243.38	5,385.84	5,310.64	75.20	71.623		
11,000.00	7,796.20	6,978.42	6,937.18	64.34	13.96	78.61	108.94	-4,243.38	5,443.59	5,366.68	76.91	70.777		
11,100.00	7,795.77	6,978.42	6,937.18	66.09	13.96	78.61	108.94	-4,243.38	5,502.56	5,423.93	78.63	69.981		
11,200.00	7,795.33	6,978.42	6,937.18	67.84	13.96	78.61	108.94	-4,243.38	5,562.69	5,482.34	80.35	69.230		
11,300.00	7,794.89	6,978.42	6,937.18	69.59	13.96	78.61	108.94	-4,243.38	5,623.97	5,541.89	82.07	68.522		
11,400.00	7,794.45	6,978.42	6,937.18	71.35	13.96	78.61	108.94	-4,243.38	5,686.34	5,602.54	83.80	67.854		
11,500.00	7,794.01	6,978.42	6,937.18	73.11	13.96	78.61	108.94	-4,243.38	5,749.77	5,664.24	85.53	67.224		
11,600.00	7,793.57	6,978.42	6,937.18	74.87	13.96	78.61	108.94	-4,243.38	5,814.23	5,728.97	87.26	66.628		
11,700.00	7,793.14	6,978.42	6,937.18	76.63	13.96	78.61	108.94	-4,243.38	5,879.69	5,790.69	89.00	66.065		
11,800.00	7,792.70	6,978.42	6,937.18	78.40	13.96	78.61	108.94	-4,243.38	5,946.11	5,855.37	90.74	65.532		
11,900.00	7,792.26	6,978.42	6,937.18	80.16	13.96	78.61	108.94	-4,243.38	6,013.48	5,920.98	92.47	65.029		
12,000.00	7,791.82	6,978.42	6,937.18	81.93	13.96	78.61	108.94	-4,243.38	6,081.70	5,987.49	94.21	64.552		
12,100.00	7,791.38	6,978.42	6,937.18	83.71	13.96	78.61	108.94	-4,243.38	6,150.82	6,054.86	95.96	64.100		
12,187.37	7,791.00	6,978.42	6,937.18	85.25	13.96	78.61	108.94	-4,243.38	6,211.89	6,114.41	97.48	63.724 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 9H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3152' + KB 26' @ 3178.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3152' + KB 26' @ 3178.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	9H	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 Draft 1	Offset TVD Reference:	Reference Datum

Offset Design													Offset Site Error:
Lone Tree Draw "13" State - 4H - OH - OH													0.00 usft
Survey Program: 18-NS-GYRO-MS; 4369-LEAM MWD; 9572-Project													Offset Well Error:
Reference: Lone Tree Draw "13" State - 4H - OH - OH													0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis			Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/S (usft)	+E/W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	36.87	8.87	0.00	0.02	-85.91	147.13	-2,059.92	2,065.19				
100.00	100.00	142.94	115.94	0.08	0.19	-85.90	147.54	-2,059.20	2,064.54	2,064.26	0.28	7,490.934	
200.00	200.00	244.31	217.30	0.31	0.45	-85.90	147.50	-2,058.36	2,063.71	2,062.95	0.76	2,705.609	
300.00	300.00	343.66	316.65	0.53	0.72	-85.90	147.46	-2,057.54	2,062.89	2,061.64	1.25	1,652.154	
400.00	400.00	443.67	416.65	0.76	0.98	-85.90	147.50	-2,056.74	2,062.09	2,060.35	1.74	1,186.493	
500.00	500.00	543.78	516.76	0.98	1.24	-85.90	147.38	-2,055.93	2,061.27	2,059.05	2.22	926.455	
600.00	600.00	637.60	610.58	1.21	1.46	-85.90	147.32	-2,055.26	2,060.56	2,057.89	2.67	771.322	
675.13	675.13	702.15	675.13	1.38	1.57	-85.89	147.73	-2,055.03	2,060.33	2,057.38	2.95	688.285	
700.00	700.00	722.29	695.27	1.43	1.60	-85.88	147.86	-2,055.04	2,060.36	2,057.33	3.03	680.301	
800.00	800.00	812.12	785.09	1.66	1.66	-85.88	148.20	-2,055.57	2,060.96	2,057.64	3.32	620.767	
900.00	900.00	936.37	909.34	1.88	1.78	-85.90	147.35	-2,056.07	2,061.37	2,057.71	3.66	563.214	
1,000.00	1,000.00	1,038.11	1,011.07	2.11	1.98	-85.93	148.43	-2,055.51	2,060.75	2,056.66	4.08	504.589	
1,100.00	1,100.00	1,133.13	1,106.09	2.33	2.19	-85.94	145.93	-2,055.14	2,060.33	2,055.81	4.52	455.591	
1,200.00	1,200.00	1,233.63	1,206.59	2.56	2.43	-85.95	145.66	-2,054.87	2,060.03	2,055.04	4.99	412.951	
1,300.00	1,300.00	1,333.93	1,306.89	2.78	2.69	-85.95	145.47	-2,054.55	2,059.71	2,054.24	5.47	376.729	
1,400.00	1,400.00	1,436.28	1,409.24	3.01	2.85	-85.96	145.21	-2,054.16	2,059.31	2,053.36	5.95	345.943	
1,500.00	1,500.00	1,535.94	1,508.90	3.23	3.19	-85.97	144.77	-2,053.73	2,058.85	2,052.42	6.42	320.482	
1,600.00	1,600.00	1,631.07	1,604.03	3.45	3.41	-85.98	144.24	-2,053.47	2,058.53	2,051.66	6.87	299.729	
1,681.40	1,681.40	1,708.45	1,681.40	3.64	3.57	-85.99	143.81	-2,053.42	2,058.45	2,051.24	7.21	285.485	
1,700.00	1,700.00	1,725.64	1,698.59	3.68	3.60	-86.00	143.73	-2,053.43	2,058.46	2,051.18	7.28	282.810	
1,800.00	1,800.00	1,819.36	1,792.31	3.90	3.73	-86.01	143.38	-2,053.69	2,058.70	2,051.07	7.63	269.807	
1,900.00	1,900.00	1,917.29	1,890.24	4.13	3.80	-86.01	143.34	-2,054.11	2,059.13	2,051.20	7.93	259.681	
2,000.00	2,000.00	2,015.68	1,988.63	4.35	3.86	-86.01	143.42	-2,054.61	2,059.64	2,051.42	8.22	250.615	
2,100.00	2,100.00	2,113.53	2,086.48	4.58	3.94	-86.01	143.52	-2,055.19	2,060.24	2,051.72	8.52	241.756	
2,200.00	2,200.00	2,211.12	2,184.06	4.80	4.04	-86.00	143.66	-2,055.88	2,060.96	2,052.12	8.84	233.167	
2,300.00	2,300.00	2,310.99	2,283.93	5.03	4.14	-86.00	143.91	-2,056.67	2,061.76	2,052.59	9.17	224.859	
2,400.00	2,400.00	2,413.92	2,386.86	5.25	4.26	-85.99	144.21	-2,057.38	2,062.47	2,052.96	9.51	216.816	
2,500.00	2,500.00	2,515.26	2,488.20	5.48	4.39	-85.98	144.53	-2,057.96	2,063.06	2,053.19	9.87	209.078	
2,600.00	2,600.00	2,616.79	2,589.72	5.70	4.54	-85.98	144.61	-2,058.51	2,063.61	2,053.36	10.24	201.434	
2,700.00	2,700.00	2,713.90	2,686.83	5.93	4.70	-85.98	144.62	-2,059.03	2,064.15	2,053.52	10.63	194.216	
2,800.00	2,800.00	2,811.85	2,784.78	6.15	4.86	-85.98	144.87	-2,059.70	2,064.85	2,053.83	11.01	187.522	
2,900.00	2,900.00	2,905.20	2,878.13	6.38	5.02	-85.97	145.22	-2,060.50	2,065.73	2,054.33	11.39	181.316	
3,000.00	3,000.00	2,999.74	2,972.66	6.60	5.19	-85.97	145.26	-2,061.63	2,066.92	2,055.13	11.79	175.267	
3,100.00	3,100.00	3,107.52	3,080.44	6.83	5.41	-85.98	144.91	-2,062.92	2,068.10	2,055.86	12.23	169.050	
3,200.00	3,200.00	3,214.56	3,187.47	7.05	5.63	-86.00	144.43	-2,063.74	2,068.83	2,056.15	12.68	163.146	
3,300.00	3,300.00	3,319.31	3,292.22	7.28	5.82	-85.99	144.77	-2,064.40	2,069.49	2,056.39	13.10	158.008	
3,400.00	3,400.00	3,436.95	3,409.85	7.50	5.99	-85.96	145.79	-2,064.01	2,069.18	2,055.69	13.49	153.361	
3,500.00	3,500.00	3,533.64	3,506.53	7.73	6.13	-85.94	146.36	-2,063.58	2,068.78	2,054.93	13.85	149.363	
3,600.00	3,600.00	3,631.93	3,604.82	7.95	6.27	-85.93	146.65	-2,063.31	2,068.52	2,054.30	14.22	145.483	
3,700.00	3,700.00	3,731.76	3,704.66	8.17	6.42	-85.93	146.87	-2,063.07	2,068.29	2,053.70	14.59	141.713	
3,800.00	3,800.00	3,828.37	3,802.27	8.40	6.58	-85.92	147.07	-2,062.87	2,068.11	2,053.13	14.98	138.089	
3,865.34	3,865.34	3,892.45	3,865.34	8.55	6.68	-85.92	147.25	-2,062.83	2,068.07	2,052.84	15.23	135.780	
3,900.00	3,900.00	3,925.86	3,898.75	8.62	6.74	-85.91	147.34	-2,062.83	2,068.09	2,052.72	15.37	134.576	
4,000.00	4,000.00	4,023.74	3,996.63	8.85	6.92	-85.91	147.64	-2,062.93	2,068.20	2,052.43	15.77	131.145	
4,100.00	4,100.00	4,121.66	4,094.55	9.07	7.11	-85.90	148.00	-2,063.11	2,068.42	2,052.24	16.18	127.835	
4,200.00	4,200.00	4,220.08	4,192.98	9.30	7.30	-85.89	148.35	-2,063.38	2,068.72	2,052.12	16.60	124.645	
4,300.00	4,300.00	4,318.35	4,291.24	9.52	7.49	-85.88	148.66	-2,063.73	2,069.10	2,052.08	17.02	121.586	
4,400.00	4,400.00	5,153.51	4,933.01	9.75	10.92	-97.40	-255.39	-1,967.26	2,054.12	2,032.83	21.30	96.458	
4,500.00	4,500.00	5,163.00	4,935.63	9.97	11.04	-97.66	-264.32	-1,965.41	2,030.39	2,008.73	21.66	93.749	
4,600.00	4,600.00	5,177.60	4,939.43	10.20	11.23	-98.07	-278.16	-1,962.72	2,011.19	1,989.09	22.10	91.006	
4,700.00	4,700.00	5,195.00	4,943.55	10.42	11.45	-98.55	-294.80	-1,959.75	1,996.71	1,974.13	22.58	88.416	

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 9H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3152' + KB 26' @ 3178.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3152' + KB 26' @ 3178.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	9H	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 Draft 1	Offset TVD Reference:	Reference Datum

Offset Design Lone Tree Draw "13" State - 4H - OH - OH													Offset Site Error:	0.00 usft		
Survey Program: 18-NS-GYRO-MS, 4369-LEAM MWD, 9572-Project													Offset Well Error:	0.00 usft		
Reference																
Measured Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning			
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)						
4,800.00	4,800.00	5,195.00	4,943.55	10.65	11.45	-98.55	-294.80	-1,959.75	1,987.00	1,964.19	22.81	87.119				
4,900.00	4,900.00	5,209.77	4,946.65	10.87	11.65	-98.97	-309.05	-1,957.38	1,982.18	1,958.92	23.26	85.214				
4,947.57	4,947.57	5,214.58	4,947.57	10.98	11.72	-99.11	-313.71	-1,956.63	1,981.62	1,958.18	23.44	84.530	CC, ES			
5,000.00	5,000.00	5,227.00	4,949.72	11.10	11.89	-99.46	-325.79	-1,954.73	1,982.33	1,958.58	23.75	83.458				
5,100.00	5,100.00	5,227.00	4,949.72	11.32	11.89	-99.46	-325.79	-1,954.73	1,987.38	1,963.41	23.98	82.886				
5,200.00	5,200.00	5,227.00	4,949.72	11.55	11.89	-99.46	-325.79	-1,954.73	1,997.44	1,973.23	24.20	82.532				
5,300.00	5,300.00	5,238.61	4,951.47	11.77	12.05	-99.79	-337.14	-1,953.02	2,012.32	1,987.71	24.61	81.763				
5,400.00	5,400.00	5,243.20	4,952.08	12.00	12.12	-99.93	-341.64	-1,952.36	2,032.01	2,007.10	24.91	81.576				
5,500.00	5,500.00	5,247.22	4,952.58	12.22	12.18	-100.04	-345.59	-1,951.79	2,056.36	2,031.16	25.20	81.608				
5,600.00	5,600.00	5,259.00	4,953.89	12.45	12.34	-100.38	-357.18	-1,950.19	2,085.25	2,059.64	25.61	81.424				
5,700.00	5,700.00	5,259.00	4,953.89	12.67	12.34	-100.38	-357.18	-1,950.19	2,118.37	2,092.53	25.83	81.998				
5,800.00	5,800.00	5,259.00	4,953.89	12.89	12.34	-100.38	-357.18	-1,950.19	2,155.82	2,129.56	26.06	82.720				
5,900.00	5,900.00	5,259.00	4,953.89	13.12	12.34	-100.38	-357.18	-1,950.19	2,196.80	2,170.52	26.28	83.579				
6,000.00	6,000.00	5,259.00	4,953.89	13.34	12.34	-100.38	-357.18	-1,950.19	2,241.69	2,215.18	26.51	84.564				
6,100.00	6,100.00	5,259.00	4,953.89	13.57	12.34	-100.38	-357.18	-1,950.19	2,290.06	2,263.33	26.73	85.662				
6,200.00	6,200.00	5,259.00	4,953.89	13.79	12.34	-100.38	-357.18	-1,950.19	2,341.71	2,314.75	26.96	86.864				
6,300.00	6,300.00	5,259.00	4,953.89	14.02	12.34	-100.38	-357.18	-1,950.19	2,396.42	2,369.24	27.18	88.158				
6,400.00	6,400.00	5,259.00	4,953.89	14.24	12.34	-100.38	-357.18	-1,950.19	2,453.99	2,426.58	27.41	89.536				
6,500.00	6,500.00	5,272.32	4,955.02	14.47	12.54	-100.76	-370.34	-1,948.42	2,514.05	2,486.20	27.85	90.278				
6,600.00	6,600.00	5,273.82	4,955.13	14.69	12.56	-100.80	-371.82	-1,948.23	2,576.71	2,548.61	28.10	91.708				
6,700.00	6,700.00	5,275.19	4,955.22	14.92	12.58	-100.84	-373.18	-1,948.05	2,641.67	2,613.32	28.34	93.201				
6,800.00	6,800.00	5,276.45	4,955.30	15.14	12.60	-100.88	-374.43	-1,947.88	2,708.76	2,680.17	28.59	94.749				
6,900.00	6,900.00	5,277.62	4,955.37	15.37	12.61	-100.91	-375.58	-1,947.73	2,777.82	2,748.99	28.83	96.344				
7,000.00	7,000.00	5,291.00	4,956.00	15.59	12.81	-101.30	-388.83	-1,946.00	2,848.87	2,819.60	29.27	97.323				
7,100.00	7,100.00	5,291.00	4,956.00	15.82	12.81	-101.30	-388.83	-1,946.00	2,921.45	2,891.95	29.50	99.042				
7,200.00	7,200.00	5,291.00	4,956.00	16.04	12.81	-101.30	-388.83	-1,946.00	2,995.61	2,965.88	29.72	100.788				
7,221.58	7,221.58	5,291.00	4,956.00	16.09	12.81	-101.30	-388.83	-1,946.00	3,011.81	2,982.04	29.77	101.168				
7,250.00	7,249.89	5,291.00	4,956.00	16.15	12.81	72.68	-388.83	-1,946.00	3,033.12	3,004.18	28.94	104.820				
7,300.00	7,299.76	5,291.00	4,956.00	16.23	12.81	67.49	-388.83	-1,946.00	3,070.20	3,041.28	28.92	106.173				
7,350.00	7,348.93	5,291.00	4,956.00	16.32	12.81	62.69	-388.83	-1,946.00	3,106.52	3,077.72	28.80	107.866				
7,400.00	7,397.13	5,291.00	4,956.00	16.40	12.81	58.35	-388.83	-1,946.00	3,141.84	3,113.26	28.58	109.944				
7,450.00	7,444.00	5,291.00	4,956.00	16.49	12.81	54.47	-388.83	-1,946.00	3,175.92	3,147.68	28.24	112.447				
7,500.00	7,489.17	5,291.00	4,956.00	16.57	12.81	51.04	-388.83	-1,946.00	3,208.55	3,180.75	27.80	115.406				
7,550.00	7,532.31	5,301.67	4,956.28	16.66	12.97	47.87	-399.41	-1,944.61	3,239.47	3,211.99	27.48	117.864				
7,600.00	7,573.08	5,311.61	4,956.41	16.77	13.12	45.13	-409.26	-1,943.29	3,268.49	3,241.33	27.16	120.341				
7,650.00	7,611.18	5,348.95	4,956.57	16.91	13.69	42.43	-446.21	-1,937.94	3,295.24	3,268.26	26.98	122.124				
7,700.00	7,646.31	5,488.63	4,957.64	17.07	15.76	39.01	-583.89	-1,914.48	3,318.76	3,291.27	27.49	120.729				
7,750.00	7,678.21	5,517.06	4,958.12	17.26	16.20	37.34	-611.87	-1,909.43	3,339.04	3,311.94	27.10	123.196				
7,800.00	7,706.64	5,547.17	4,958.51	17.48	16.66	35.96	-641.49	-1,904.05	3,356.42	3,329.69	26.72	125.593				
7,850.00	7,731.37	5,583.18	4,958.83	17.74	17.23	34.80	-676.91	-1,897.59	3,370.72	3,344.29	26.42	127.561				
7,900.00	7,752.22	5,624.88	4,959.18	18.03	17.91	33.86	-717.95	-1,890.15	3,381.73	3,355.50	26.23	128.913				
7,950.00	7,769.04	5,629.52	4,964.31	18.36	21.17	32.20	-918.44	-1,849.64	3,387.81	3,360.45	27.37	123.800				
8,000.00	7,781.69	5,846.00	4,965.05	18.73	21.44	32.00	-934.54	-1,846.23	3,389.78	3,362.59	27.19	124.673				
8,050.00	7,790.07	5,878.43	4,966.35	19.13	21.98	31.91	-966.27	-1,839.65	3,388.35	3,361.06	27.29	124.147				
8,100.00	7,794.13	5,897.05	4,966.90	19.56	22.29	32.08	-984.52	-1,835.98	3,383.77	3,356.33	27.45	123.285				
8,119.95	7,794.54	5,904.51	4,967.08	19.74	22.41	32.20	-991.83	-1,834.53	3,381.05	3,353.50	27.56	122.701				
8,200.00	7,794.76	5,939.00	4,967.62	20.51	22.99	32.09	-1,025.69	-1,827.99	3,369.70	3,341.40	28.30	119.083				
8,300.00	7,795.05	5,939.00	4,967.62	21.58	22.99	32.09	-1,025.69	-1,827.99	3,357.56	3,328.63	28.94	116.035				
8,400.00	7,795.33	6,002.92	4,967.39	22.73	24.09	31.88	-1,088.67	-1,817.04	3,346.63	3,316.45	30.18	110.890				
8,500.00	7,795.62	6,034.00	4,966.74	23.97	24.63	31.78	-1,119.38	-1,812.37	3,338.04	3,306.85	31.20	107.002				

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 9H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3152' + KB 26' @ 3178.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3152' + KB 26' @ 3178.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	9H	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 Draft 1	Offset TVD Reference:	Reference Datum

Offset Design													Offset Site Error:	0.00 usft	
Lone Tree Draw "13" State - 4H - OH - OH													Offset Well Error:	0.00 usft	
Survey Program: 18-NS-GYRO-MS, 4369-LEAM MWD, 9572-Project															
Reference		Offset		Semi Major Axis		Highside		Offset Wellbore Centre		Distance		Minimum Separation		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Topface (')	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
8,500.00	7,795.90	6,080.87	4,965.46	25.28	25.41	31.64	-1,165.85	-1,806.42	3,331.27	3,298.87	32.40	102.832			
8,700.00	7,796.19	6,125.00	4,964.22	26.65	26.16	31.54	-1,209.76	-1,802.24	3,326.21	3,292.60	33.62	98.950			
8,800.00	7,796.47	6,298.44	4,959.54	28.07	29.04	31.09	-1,382.13	-1,783.73	3,320.25	3,284.30	35.95	92.363			
8,900.00	7,796.75	6,590.00	4,961.15	29.54	33.96	30.27	-1,670.80	-1,743.25	3,308.69	3,269.48	39.21	84.390			
9,000.00	7,797.04	6,652.28	4,963.01	31.04	35.01	30.12	-1,732.50	-1,735.01	3,297.12	3,256.50	40.62	81.167			
9,100.00	7,797.32	6,684.00	4,963.96	32.57	35.55	30.05	-1,764.01	-1,731.49	3,287.04	3,245.24	41.81	78.623			
9,200.00	7,797.61	6,733.94	4,964.99	34.13	36.40	29.95	-1,813.72	-1,726.90	3,278.64	3,235.46	43.18	75.931			
9,300.00	7,797.89	6,780.00	4,965.13	35.72	37.19	29.86	-1,859.67	-1,723.73	3,272.37	3,227.83	44.53	73.479			
9,400.00	7,798.18	6,780.00	4,965.13	37.32	37.19	29.86	-1,859.67	-1,723.73	3,268.22	3,222.72	45.50	71.828			
9,500.00	7,798.46	6,834.83	4,964.13	38.95	38.13	29.77	-1,914.43	-1,721.23	3,265.72	3,218.75	46.97	69.531			
9,560.49	7,798.63	6,875.00	4,962.50	39.94	38.82	29.71	-1,954.56	-1,720.26	3,265.55	3,217.63	47.93	68.138			
9,600.00	7,798.75	6,875.00	4,962.50	40.59	38.82	29.71	-1,954.56	-1,720.26	3,265.55	3,217.24	48.32	67.588			
9,700.00	7,799.03	6,926.95	4,959.76	42.25	39.70	29.64	-2,008.43	-1,719.61	3,267.08	3,217.30	49.78	65.629			
9,800.00	7,799.32	7,088.27	4,951.87	43.91	42.39	29.42	-2,167.55	-1,718.59	3,269.10	3,216.87	52.22	62.601			
9,900.00	7,799.60	7,383.15	4,950.97	45.59	47.32	29.02	-2,462.15	-1,708.42	3,263.65	3,207.85	55.79	58.495			
10,000.00	7,799.88	7,473.57	4,951.81	47.28	48.86	28.89	-2,552.45	-1,703.88	3,258.17	3,200.59	57.58	56.589			
10,041.96	7,800.00	7,521.04	4,952.48	48.00	49.66	28.82	-2,599.88	-1,701.89	3,255.86	3,197.45	58.41	55.742			
10,100.00	7,800.06	7,566.46	4,953.30	48.94	50.44	28.71	-2,645.26	-1,700.26	3,252.31	3,193.05	59.25	54.889			
10,152.80	7,799.92	7,599.72	4,953.78	49.77	51.00	28.60	-2,678.50	-1,699.27	3,248.73	3,188.83	59.91	54.230			
10,200.00	7,799.71	7,636.00	4,954.16	50.54	51.62	28.54	-2,714.77	-1,698.40	3,245.54	3,184.87	60.67	53.492			
10,300.00	7,799.27	7,785.49	4,956.81	52.24	54.16	28.30	-2,864.18	-1,694.17	3,237.96	3,175.04	62.92	51.461			
10,400.00	7,798.83	7,893.16	4,958.27	53.96	56.00	28.07	-2,971.67	-1,688.35	3,229.56	3,164.84	64.75	49.876			
10,500.00	7,798.40	8,008.53	4,960.18	55.68	57.96	27.83	-3,086.85	-1,681.98	3,220.96	3,154.33	66.63	48.341			
10,600.00	7,797.96	8,063.40	4,961.47	57.40	58.89	27.74	-3,141.67	-1,680.03	3,212.70	3,144.63	68.07	47.194			
10,700.00	7,797.52	8,109.00	4,962.35	59.13	59.67	27.67	-3,187.26	-1,679.43	3,205.94	3,136.48	69.46	46.155			
10,800.00	7,797.08	8,155.64	4,962.88	60.86	60.46	27.62	-3,233.89	-1,679.77	3,200.86	3,129.98	70.88	45.161			
10,900.00	7,796.64	8,204.00	4,962.79	62.60	61.28	27.57	-3,282.23	-1,681.08	3,197.62	3,125.31	72.32	44.216			
11,000.00	7,796.20	8,264.30	4,962.26	64.34	62.30	27.53	-3,342.47	-1,683.74	3,195.85	3,121.97	73.88	43.256			
11,100.00	7,795.77	8,622.42	4,966.48	66.09	68.29	27.23	-3,700.17	-1,694.05	3,194.56	3,116.51	78.06	40.927			
11,200.00	7,795.33	8,678.00	4,968.57	67.84	69.24	27.14	-3,755.69	-1,692.28	3,185.56	3,108.06	79.50	40.071			
11,300.00	7,794.89	8,748.58	4,970.25	69.59	70.45	27.02	-3,826.20	-1,689.86	3,177.61	3,096.57	81.04	39.211			
11,400.00	7,794.45	8,806.15	4,970.55	71.35	71.44	26.92	-3,883.74	-1,688.11	3,171.28	3,088.80	82.47	38.452			
11,500.00	7,794.01	8,868.00	4,970.18	73.11	72.52	26.80	-3,945.57	-1,686.37	3,166.13	3,082.20	83.93	37.723			
11,600.00	7,793.57	8,932.53	4,969.03	74.87	73.64	26.67	-4,010.06	-1,684.68	3,162.16	3,076.76	85.40	37.028			
11,700.00	7,793.14	9,072.81	4,965.60	76.63	76.07	26.37	-4,150.21	-1,679.76	3,158.51	3,071.17	87.34	36.165			
11,800.00	7,792.70	9,152.00	4,963.80	78.40	77.44	26.19	-4,229.31	-1,676.47	3,154.33	3,065.49	88.85	35.503			
11,900.00	7,792.26	9,234.66	4,961.59	80.16	78.89	26.00	-4,311.88	-1,673.46	3,150.79	3,060.41	90.38	34.861			
12,000.00	7,791.82	9,332.77	4,958.80	81.93	80.59	25.78	-4,409.89	-1,669.88	3,147.47	3,055.47	92.00	34.213			
12,100.00	7,791.38	9,428.28	4,956.03	83.71	82.26	25.57	-4,505.30	-1,666.40	3,144.25	3,050.67	93.58	33.599			
12,187.37	7,791.00	9,523.07	4,953.34	85.25	83.80	25.35	-4,599.99	-1,662.94	3,141.43	3,046.45	94.97	33.078 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 9H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3152' + KB 26' @ 3178.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3152' + KB 26' @ 3178.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	9H	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 Draft 1	Offset TVD Reference:	Reference Datum

Offset Design Lone Tree Draw "13" State - 4H - Pilot - Pilot												Offset Site Error:	0.00 usft
Survey Program: 18-NS-GYRO-MS												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance		Minimum Separation	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/S (usft)	+E/W (usft)	Between Centres (usft)	Between Ellipses (usft)	(usft)		
0.00	0.00	36.87	9.87	0.00	0.02	-85.91	147.13	-2,059.92	2,065.19				
100.00	100.00	142.94	115.94	0.08	0.19	-85.90	147.54	-2,059.20	2,064.54	2,064.26	0.28	7,491.156	
200.00	200.00	244.31	217.30	0.31	0.45	-85.90	147.50	-2,058.36	2,063.71	2,062.95	0.76	2,705.605	
300.00	300.00	343.66	316.65	0.53	0.72	-85.90	147.46	-2,057.54	2,062.89	2,061.64	1.25	1,652.152	
400.00	400.00	443.67	416.65	0.76	0.98	-85.90	147.50	-2,056.74	2,062.09	2,060.35	1.74	1,186.492	
500.00	500.00	543.78	516.76	0.98	1.24	-85.90	147.38	-2,055.93	2,061.27	2,059.05	2.22	926.455	
600.00	600.00	637.60	610.58	1.21	1.46	-85.90	147.32	-2,055.26	2,060.56	2,057.89	2.67	771.322	
675.13	675.13	702.15	675.13	1.38	1.57	-85.89	147.73	-2,055.03	2,060.33	2,057.38	2.95	698.284	
700.00	700.00	722.29	695.27	1.43	1.60	-85.88	147.86	-2,055.04	2,060.36	2,057.33	3.03	680.300	
800.00	800.00	812.12	785.09	1.66	1.66	-85.88	148.20	-2,055.57	2,060.96	2,057.64	3.32	620.766	
900.00	900.00	936.37	909.34	1.88	1.78	-85.90	147.35	-2,056.07	2,061.37	2,057.71	3.66	563.214	
1,000.00	1,000.00	1,038.11	1,011.07	2.11	1.98	-85.93	146.43	-2,055.51	2,060.75	2,056.66	4.08	504.589	
1,100.00	1,100.00	1,133.13	1,106.09	2.33	2.19	-85.94	145.93	-2,055.14	2,060.33	2,055.81	4.52	455.591	
1,200.00	1,200.00	1,233.63	1,206.59	2.56	2.43	-85.95	145.66	-2,054.87	2,060.03	2,055.04	4.99	412.951	
1,300.00	1,300.00	1,333.93	1,306.89	2.78	2.69	-85.95	145.47	-2,054.55	2,059.71	2,054.24	5.47	376.729	
1,400.00	1,400.00	1,436.28	1,409.24	3.01	2.85	-85.96	145.21	-2,054.16	2,059.31	2,053.36	5.95	345.944	
1,500.00	1,500.00	1,535.94	1,508.90	3.23	3.19	-85.97	144.77	-2,053.73	2,058.85	2,052.42	6.42	320.482	
1,600.00	1,600.00	1,631.07	1,604.03	3.45	3.41	-85.98	144.24	-2,053.47	2,058.53	2,051.67	6.87	299.730	
1,681.40	1,681.40	1,708.45	1,681.40	3.64	3.57	-85.99	143.81	-2,053.42	2,058.45	2,051.24	7.21	285.486	
1,700.00	1,700.00	1,725.64	1,698.59	3.68	3.60	-86.00	143.73	-2,053.43	2,058.46	2,051.18	7.28	282.810	
1,800.00	1,800.00	1,819.36	1,792.31	3.90	3.73	-86.01	143.38	-2,053.69	2,058.70	2,051.07	7.63	269.807	
1,900.00	1,900.00	1,917.29	1,890.24	4.13	3.80	-86.01	143.34	-2,054.11	2,059.13	2,051.20	7.93	259.681	
2,000.00	2,000.00	2,015.68	1,988.63	4.35	3.86	-86.01	143.42	-2,054.61	2,059.64	2,051.42	8.22	250.615	
2,100.00	2,100.00	2,113.53	2,086.48	4.58	3.94	-86.01	143.52	-2,055.19	2,060.24	2,051.72	8.52	241.756	
2,200.00	2,200.00	2,211.12	2,184.06	4.80	4.04	-86.00	143.66	-2,055.88	2,060.96	2,052.12	8.84	233.187	
2,300.00	2,300.00	2,310.99	2,283.93	5.03	4.14	-86.00	143.91	-2,056.67	2,061.76	2,052.59	9.17	224.860	
2,400.00	2,400.00	2,413.92	2,386.86	5.25	4.26	-85.99	144.21	-2,057.38	2,062.47	2,052.96	9.51	216.816	
2,500.00	2,500.00	2,515.26	2,488.20	5.48	4.39	-85.98	144.53	-2,057.96	2,063.06	2,053.19	9.87	209.078	
2,600.00	2,600.00	2,616.79	2,589.72	5.70	4.54	-85.98	144.61	-2,058.51	2,063.61	2,053.36	10.24	201.434	
2,700.00	2,700.00	2,713.90	2,686.83	5.93	4.70	-85.98	144.62	-2,059.03	2,064.15	2,053.52	10.63	194.216	
2,800.00	2,800.00	2,811.85	2,784.78	6.15	4.86	-85.98	144.87	-2,059.70	2,064.85	2,053.83	11.01	187.522	
2,900.00	2,900.00	2,905.20	2,878.13	6.38	5.02	-85.97	145.22	-2,060.50	2,065.73	2,054.33	11.39	181.316	
3,000.00	3,000.00	2,999.74	2,972.66	6.60	5.19	-85.97	145.26	-2,061.63	2,066.92	2,055.13	11.79	175.267	
3,100.00	3,100.00	3,107.52	3,080.44	6.83	5.41	-85.98	144.91	-2,062.92	2,068.10	2,055.86	12.23	169.050	
3,200.00	3,200.00	3,214.56	3,187.47	7.05	5.63	-86.00	144.43	-2,063.74	2,068.83	2,056.15	12.68	163.146	
3,300.00	3,300.00	3,319.31	3,292.22	7.28	5.82	-85.99	144.77	-2,064.40	2,069.49	2,056.39	13.10	158.008	
3,400.00	3,400.00	3,436.95	3,409.85	7.50	5.99	-85.96	145.79	-2,064.01	2,069.18	2,055.69	13.49	153.361	
3,500.00	3,500.00	3,533.64	3,506.53	7.73	6.13	-85.94	146.36	-2,063.58	2,068.78	2,054.93	13.85	149.363	
3,600.00	3,600.00	3,631.93	3,604.82	7.95	6.27	-85.93	146.65	-2,063.31	2,068.52	2,054.30	14.22	145.483	
3,700.00	3,700.00	3,731.76	3,704.66	8.17	6.42	-85.93	146.87	-2,063.07	2,068.29	2,053.70	14.59	141.713	
3,800.00	3,800.00	3,829.37	3,802.27	8.40	6.58	-85.92	147.07	-2,062.87	2,068.11	2,053.13	14.98	138.089	
3,865.34	3,865.34	3,892.45	3,865.34	8.55	6.68	-85.92	147.25	-2,062.83	2,068.07	2,052.84	15.23	135.760	
3,900.00	3,900.00	3,925.86	3,898.75	8.62	6.74	-85.91	147.34	-2,062.83	2,068.09	2,052.72	15.37	134.576	
4,000.00	4,000.00	4,023.74	3,996.63	8.85	6.92	-85.91	147.64	-2,062.93	2,068.20	2,052.43	15.77	131.145	
4,100.00	4,100.00	4,121.66	4,094.55	9.07	7.11	-85.90	148.00	-2,063.11	2,068.42	2,052.24	16.18	127.835	
4,200.00	4,200.00	4,220.08	4,192.98	9.30	7.30	-85.89	148.35	-2,063.38	2,068.72	2,052.12	16.60	124.645	
4,300.00	4,300.00	4,318.35	4,291.24	9.52	7.49	-85.88	148.66	-2,063.73	2,069.10	2,052.08	17.02	121.586	
4,400.00	4,400.00	4,414.65	4,387.54	9.75	7.69	-85.88	148.83	-2,064.26	2,069.66	2,052.22	17.44	118.704	
4,500.00	4,500.00	4,510.53	4,483.42	9.97	7.88	-85.88	148.69	-2,064.99	2,070.40	2,052.56	17.85	116.003	
4,600.00	4,600.00	4,606.23	4,579.11	10.20	8.06	-85.89	148.51	-2,065.87	2,071.31	2,053.05	18.26	113.421	
4,700.00	4,700.00	4,704.32	4,677.19	10.42	8.27	-85.89	148.65	-2,066.91	2,072.37	2,053.68	18.69	110.876	

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 9H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3152' + KB 26' @ 3178.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3152' + KB 26' @ 3178.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	9H	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 Draft 1	Offset TVD Reference:	Reference Datum

Offset Design - Lone Tree Draw "13" State - 4H - Pilot - Pilot													Offset Site Error:	0.00 usft			
Survey Program: 18-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 Tooface (')	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor					
4,800.00	4,800.00	4,807.25	4,780.12	10.65	8.49	-85.88	149.03	-2,067.95	2,073.41	2,054.27	19.14	108.355					
4,900.00	4,900.00	4,916.83	4,889.69	10.87	8.72	-85.87	149.56	-2,068.82	2,074.24	2,054.65	19.59	105.876					
5,000.00	5,000.00	5,032.79	5,005.66	11.10	8.93	-85.85	150.20	-2,068.79	2,074.24	2,054.22	20.02	103.588					
5,100.00	5,100.00	5,140.94	5,113.80	11.32	9.08	-85.84	150.26	-2,068.28	2,073.78	2,053.38	20.40	101.649					
5,200.00	5,200.00	5,248.44	5,221.29	11.55	9.22	-85.85	150.06	-2,067.38	2,072.93	2,052.16	20.77	99.810					
5,300.00	5,300.00	5,343.45	5,316.31	11.77	9.36	-85.85	149.98	-2,066.50	2,072.00	2,050.87	21.13	98.061					
5,400.00	5,400.00	5,432.84	5,405.69	12.00	9.51	-85.84	150.34	-2,065.99	2,071.46	2,049.95	21.50	96.325					
5,473.07	5,473.07	5,500.22	5,473.07	12.16	9.64	-85.83	150.71	-2,065.88	2,071.37	2,049.57	21.80	95.028					
5,500.00	5,500.00	5,525.22	5,498.07	12.22	9.69	-85.82	150.84	-2,065.88	2,071.38	2,049.47	21.91	94.555					
5,600.00	5,600.00	5,619.57	5,592.42	12.45	9.88	-85.81	151.30	-2,066.07	2,071.61	2,049.28	22.33	92.792					
5,700.00	5,700.00	5,722.87	5,695.72	12.67	10.10	-85.80	151.69	-2,066.36	2,071.92	2,049.16	22.77	91.002					
5,800.00	5,800.00	5,826.90	5,799.75	12.89	10.31	-85.79	152.07	-2,066.45	2,072.04	2,048.83	23.21	89.280					
5,900.00	5,900.00	5,930.99	5,903.83	13.12	10.50	-85.79	152.23	-2,066.31	2,071.92	2,048.30	23.61	87.739					
6,000.00	6,000.00	6,029.84	6,002.69	13.34	10.63	-85.79	152.14	-2,066.20	2,071.79	2,047.82	23.98	86.407					
6,100.00	6,100.00	6,133.15	6,105.99	13.57	10.77	-85.81	151.51	-2,066.00	2,071.56	2,047.22	24.34	85.112					
6,200.00	6,200.00	6,235.39	6,208.23	13.79	10.91	-85.84	150.27	-2,065.77	2,071.24	2,046.54	24.71	83.836					
6,300.00	6,300.00	6,339.61	6,312.44	14.02	11.06	-85.87	148.98	-2,065.33	2,070.73	2,045.66	25.08	82.568					
6,400.00	6,400.00	6,451.91	6,424.73	14.24	11.23	-85.91	147.76	-2,064.49	2,069.92	2,044.45	25.47	81.274					
6,500.00	6,500.00	6,568.64	6,541.44	14.47	11.40	-85.93	146.71	-2,062.68	2,068.31	2,042.43	25.87	79.945					
6,600.00	6,600.00	6,665.69	6,638.47	14.69	11.56	-85.95	145.96	-2,060.85	2,066.37	2,040.12	26.25	78.717					
6,700.00	6,700.00	6,762.07	6,734.83	14.92	11.71	-85.97	145.02	-2,059.21	2,064.60	2,037.97	26.63	77.527					
6,800.00	6,800.00	6,860.30	6,833.04	15.14	11.88	-85.98	144.47	-2,057.61	2,062.94	2,035.92	27.02	76.349					
6,900.00	6,900.00	6,956.83	6,929.56	15.37	12.05	-85.98	144.63	-2,056.21	2,061.50	2,034.09	27.41	75.199					
7,000.00	7,000.00	7,079.06	7,051.77	15.59	12.27	-85.96	145.19	-2,053.76	2,059.54	2,031.68	27.86	73.925					
7,100.00	7,100.00	7,204.52	7,177.16	15.82	12.50	-85.94	145.46	-2,049.83	2,056.43	2,028.11	28.31	72.632					
7,200.00	7,200.00	7,323.14	7,295.67	16.04	12.71	-85.96	144.35	-2,044.85	2,052.17	2,023.42	28.75	71.371					
7,221.58	7,221.58	7,345.37	7,317.88	16.09	12.75	-85.97	144.01	-2,043.83	2,051.16	2,022.32	28.84	71.116					
7,250.00	7,249.99	7,374.54	7,347.11	16.15	12.81	91.25	143.57	-2,042.48	2,049.83	2,020.88	28.95	70.803					
7,300.00	7,299.76	7,426.02	7,398.44	16.23	12.90	91.60	142.85	-2,040.07	2,047.55	2,018.43	29.13	70.299					
7,350.00	7,348.93	7,476.95	7,449.30	16.32	13.00	92.06	142.23	-2,037.63	2,045.37	2,016.07	29.30	69.808					
7,400.00	7,397.13	7,521.09	7,493.38	16.40	13.08	92.58	141.77	-2,035.51	2,043.40	2,013.94	29.46	69.359					
7,450.00	7,444.00	7,558.47	7,530.73	16.49	13.15	93.08	141.38	-2,033.86	2,041.93	2,012.32	29.61	68.956					
7,500.00	7,489.17	7,595.35	7,567.58	16.57	13.22	93.60	140.98	-2,032.41	2,041.09	2,011.32	29.77	68.571					
7,532.57	7,517.53	7,617.35	7,589.56	16.62	13.26	93.92	140.75	-2,031.62	2,040.92	2,011.06	29.87	68.330 CC					
7,550.00	7,532.31	7,629.24	7,601.44	16.66	13.29	94.09	140.63	-2,031.22	2,040.97	2,011.05	29.92	68.207 ES					
7,600.00	7,573.08	7,662.05	7,634.23	16.77	13.35	94.54	140.29	-2,030.21	2,041.70	2,011.61	30.09	67.851					
7,650.00	7,611.18	7,693.61	7,665.79	16.91	13.41	94.94	139.98	-2,029.35	2,043.37	2,013.09	30.27	67.498					
7,700.00	7,646.31	7,728.39	7,700.55	17.07	13.48	95.36	139.65	-2,028.47	2,046.03	2,015.55	30.48	67.121					
7,750.00	7,678.21	7,760.01	7,732.16	17.26	13.54	95.67	139.36	-2,027.67	2,049.77	2,018.05	30.71	66.736					
7,800.00	7,706.64	7,788.27	7,760.40	17.48	13.59	95.82	139.09	-2,026.97	2,054.69	2,023.72	30.98	66.334					
7,850.00	7,731.37	7,812.99	7,785.12	17.74	13.64	95.80	138.87	-2,026.35	2,060.91	2,029.64	31.27	65.906					
7,900.00	7,752.22	7,833.89	7,806.01	18.03	13.68	95.56	138.68	-2,025.84	2,068.50	2,036.90	31.60	65.450					
7,950.00	7,769.04	7,850.81	7,822.92	18.36	13.71	95.10	138.54	-2,025.42	2,077.50	2,045.52	31.98	64.965					
8,000.00	7,781.69	7,863.62	7,835.73	18.73	13.74	94.38	138.42	-2,025.11	2,087.83	2,055.54	32.39	64.458					
8,050.00	7,790.07	7,872.23	7,844.34	19.13	13.76	93.40	138.35	-2,024.90	2,099.76	2,066.92	32.84	63.943					
8,100.00	7,794.13	7,876.00	7,848.11	19.56	13.76	92.15	138.32	-2,024.81	2,112.94	2,079.63	33.30	63.442					
8,119.95	7,794.54	7,876.00	7,848.11	19.74	13.76	91.56	138.32	-2,024.81	2,118.55	2,085.05	33.49	63.252					
8,200.00	7,794.76	7,876.00	7,848.11	20.51	13.76	91.56	138.32	-2,024.81	2,142.83	2,108.56	34.26	62.538					
8,300.00	7,795.05	7,876.00	7,848.11	21.58	13.76	91.56	138.32	-2,024.81	2,176.91	2,141.59	35.33	61.624					
8,400.00	7,795.33	7,876.00	7,848.11	22.73	13.76	91.56	138.32	-2,024.81	2,214.99	2,178.51	36.48	60.713					

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 9H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3152' + KB 26' @ 3178.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3152' + KB 26' @ 3178.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	9H	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 Draft-1	Offset TVD Reference:	Reference Datum

Offset Design Lone Tree Draw "13" State - 4H - Pilot - Pilot													Offset Site Error:	0.00 usft
Survey Program: 18-NS-GYRO-MS													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)	Separation (usft)	Factor		
8,500.00	7,795.92	7,876.00	7,848.11	23.97	13.76	91.56	138.32	-2,024.81	2,256.86	2,219.14	37.72	59.828		
8,600.00	7,795.90	7,876.00	7,848.11	25.28	13.76	91.56	138.32	-2,024.81	2,302.32	2,263.29	39.03	58.986		
8,700.00	7,796.19	7,876.00	7,848.11	26.65	13.76	91.56	138.32	-2,024.81	2,351.15	2,310.75	40.40	58.196		
8,800.00	7,796.47	7,876.00	7,848.11	28.07	13.76	91.56	138.32	-2,024.81	2,403.16	2,361.34	41.82	57.464		
8,900.00	7,796.75	7,876.00	7,848.11	29.54	13.76	91.56	138.32	-2,024.81	2,458.13	2,414.85	43.28	56.791		
9,000.00	7,797.04	7,876.00	7,848.11	31.04	13.76	91.56	138.32	-2,024.81	2,515.88	2,471.09	44.78	56.178		
9,100.00	7,797.32	7,876.00	7,848.11	32.57	13.76	91.56	138.32	-2,024.81	2,576.22	2,529.90	46.32	55.621		
9,200.00	7,797.61	7,876.00	7,848.11	34.13	13.76	91.56	138.32	-2,024.81	2,638.96	2,591.09	47.88	55.119		
9,300.00	7,797.89	7,876.00	7,848.11	35.72	13.76	91.56	138.32	-2,024.81	2,703.96	2,654.49	49.46	54.667		
9,400.00	7,798.18	7,876.00	7,848.11	37.32	13.76	91.56	138.32	-2,024.81	2,771.03	2,719.96	51.07	54.261		
9,500.00	7,798.46	7,876.00	7,848.11	38.95	13.76	91.56	138.32	-2,024.81	2,840.05	2,787.35	52.69	53.898		
9,600.00	7,798.75	7,876.00	7,848.11	40.59	13.76	91.56	138.32	-2,024.81	2,910.86	2,856.53	54.33	53.573		
9,700.00	7,799.03	7,876.00	7,848.11	42.25	13.76	91.56	138.32	-2,024.81	2,983.35	2,927.36	55.99	53.284		
9,800.00	7,799.32	7,876.00	7,848.11	43.91	13.76	91.56	138.32	-2,024.81	3,057.38	2,999.73	57.66	53.027		
9,900.00	7,799.60	7,876.00	7,848.11	45.59	13.76	91.56	138.32	-2,024.81	3,132.86	3,073.53	59.34	52.798		
10,000.00	7,799.88	7,876.00	7,848.11	47.28	13.76	91.56	138.32	-2,024.81	3,209.69	3,148.66	61.03	52.595		
10,041.96	7,800.00	7,876.00	7,848.11	48.00	13.76	91.56	138.32	-2,024.81	3,242.30	3,180.56	61.74	52.517		
10,100.00	7,800.06	7,876.00	7,848.11	48.94	13.76	91.26	138.32	-2,024.81	3,287.40	3,224.71	62.68	52.446		
10,152.80	7,799.92	7,876.00	7,848.11	49.77	13.76	91.00	138.32	-2,024.81	3,328.15	3,264.65	63.49	52.420		
10,200.00	7,799.71	7,876.00	7,848.11	50.54	13.76	91.00	138.32	-2,024.81	3,364.59	3,300.33	64.26	52.357		
10,300.00	7,799.27	7,876.00	7,848.11	52.24	13.76	91.00	138.32	-2,024.81	3,442.68	3,376.71	65.97	52.186		
10,400.00	7,798.83	7,876.00	7,848.11	53.96	13.76	91.00	138.32	-2,024.81	3,521.87	3,454.18	67.68	52.036		
10,500.00	7,798.40	7,876.00	7,848.11	55.68	13.76	91.00	138.32	-2,024.81	3,602.09	3,532.69	69.40	51.902		
10,600.00	7,797.96	7,876.00	7,848.11	57.40	13.76	91.00	138.32	-2,024.81	3,683.28	3,612.18	71.13	51.785		
10,700.00	7,797.52	7,876.00	7,848.11	59.13	13.76	91.00	138.32	-2,024.81	3,765.38	3,692.52	72.86	51.682		
10,800.00	7,797.08	7,876.00	7,848.11	60.86	13.76	91.00	138.32	-2,024.81	3,848.32	3,773.73	74.59	51.593		
10,900.00	7,796.64	7,876.00	7,848.11	62.60	13.76	91.00	138.32	-2,024.81	3,932.06	3,855.73	76.33	51.514		
11,000.00	7,796.20	7,876.00	7,848.11	64.34	13.76	91.00	138.32	-2,024.81	4,016.55	3,938.47	78.07	51.446		
11,100.00	7,795.77	7,876.00	7,848.11	66.09	13.76	91.00	138.32	-2,024.81	4,101.73	4,021.91	79.82	51.388		
11,200.00	7,795.33	7,876.00	7,848.11	67.84	13.76	91.00	138.32	-2,024.81	4,187.56	4,105.99	81.57	51.337		
11,300.00	7,794.89	7,876.00	7,848.11	69.59	13.76	91.00	138.32	-2,024.81	4,274.01	4,190.69	83.32	51.295		
11,400.00	7,794.45	7,876.00	7,848.11	71.35	13.76	91.00	138.32	-2,024.81	4,361.04	4,275.97	85.08	51.259		
11,500.00	7,794.01	7,876.00	7,848.11	73.11	13.76	91.00	138.32	-2,024.81	4,448.62	4,361.78	86.84	51.229		
11,600.00	7,793.57	7,876.00	7,848.11	74.87	13.76	91.00	138.32	-2,024.81	4,536.71	4,448.11	88.60	51.205		
11,700.00	7,793.14	7,876.00	7,848.11	76.63	13.76	91.00	138.32	-2,024.81	4,625.29	4,534.92	90.36	51.186		
11,800.00	7,792.70	7,876.00	7,848.11	78.40	13.76	91.00	138.32	-2,024.81	4,714.32	4,622.19	92.13	51.171		
11,900.00	7,792.26	7,876.00	7,848.11	80.16	13.76	91.00	138.32	-2,024.81	4,803.78	4,709.88	93.90	51.161		
12,000.00	7,791.82	7,876.00	7,848.11	81.93	13.76	91.00	138.32	-2,024.81	4,893.65	4,797.99	95.67	51.154		
12,100.00	7,791.38	7,876.00	7,848.11	83.71	13.76	91.00	138.32	-2,024.81	4,983.91	4,886.47	97.44	51.150		
12,187.37	7,791.00	7,876.00	7,848.11	85.25	13.76	91.00	138.32	-2,024.81	5,063.06	4,964.08	98.99	51.149 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 9H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3152' + KB 26' @ 3178.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3152' + KB 26' @ 3178.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	9H	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 Draft 1	Offset TVD Reference:	Reference Datum

Offset Design Lone Tree Draw "13" State - 5H - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 233-ISCWSA-GYRO-3, 4541-LEAM.MWD+IGRF, 9585-Project													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance		Minimum Separation		Separation Factor		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (')	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	11.75	-0.25	0.00	0.01	-76.73	155.80	-660.46	678.59					
100.00	100.00	109.63	97.63	0.08	0.09	-76.72	155.93	-660.63	678.78	678.61	0.17	4,004.941		
200.00	200.00	207.51	195.51	0.31	0.16	-76.70	156.27	-661.05	679.29	678.82	0.47	1,441.231		
300.00	300.00	306.81	294.80	0.53	0.31	-76.69	156.57	-661.74	680.03	679.18	0.85	804.445		
400.00	400.00	409.27	397.26	0.76	0.49	-76.73	156.28	-662.45	680.65	679.40	1.25	544.879		
500.00	500.00	510.59	498.58	0.98	0.67	-76.77	155.82	-662.87	680.94	679.29	1.65	412.470		
600.00	600.00	610.02	598.01	1.21	0.84	-76.82	155.31	-663.25	681.19	679.15	2.05	332.393		
700.00	700.00	710.31	698.29	1.43	1.02	-76.89	154.59	-663.70	681.47	679.02	2.45	278.212		
800.00	800.00	810.93	798.91	1.66	1.19	-76.96	153.75	-664.12	681.68	678.83	2.85	239.178		
900.00	900.00	911.50	899.48	1.88	1.37	-77.01	153.27	-664.33	681.78	678.53	3.25	209.742		
1,000.00	1,000.00	1,010.98	998.96	2.11	1.55	-77.06	152.71	-664.56	681.88	678.23	3.65	186.862		
1,100.00	1,100.00	1,107.93	1,095.90	2.33	1.71	-77.08	152.51	-664.90	682.18	678.14	4.04	168.712		
1,200.00	1,200.00	1,207.64	1,195.61	2.56	1.89	-77.08	152.68	-665.66	682.98	678.51	4.44	153.722		
1,300.00	1,300.00	1,308.79	1,297.78	2.78	2.07	-77.06	153.05	-666.05	683.41	678.57	4.85	141.015		
1,400.00	1,400.00	1,410.27	1,398.24	3.01	2.24	-77.04	153.30	-666.28	683.69	678.44	5.25	130.302		
1,500.00	1,500.00	1,506.93	1,494.90	3.23	2.41	-77.02	153.65	-666.66	684.15	678.51	5.64	121.283		
1,600.00	1,600.00	1,605.49	1,593.46	3.45	2.58	-77.00	154.05	-667.44	685.02	678.98	6.04	113.443		
1,700.00	1,700.00	1,711.12	1,699.09	3.68	2.77	-77.01	154.06	-668.02	685.55	679.10	6.45	106.319		
1,800.00	1,800.00	1,813.47	1,801.43	3.90	2.95	-77.05	153.61	-668.05	685.48	678.63	6.85	100.053		
1,900.00	1,900.00	1,915.09	1,903.05	4.13	3.13	-77.09	153.09	-667.88	685.21	677.96	7.25	94.475		
2,000.00	2,000.00	2,016.16	2,004.12	4.35	3.30	-77.16	152.11	-667.44	684.57	676.92	7.65	89.445		
2,100.00	2,100.00	2,114.51	2,102.46	4.58	3.47	-77.23	151.18	-667.21	684.12	676.08	8.05	84.987		
2,200.00	2,200.00	2,212.96	2,200.91	4.80	3.65	-77.30	150.37	-667.11	683.85	675.40	8.45	80.965		
2,300.00	2,300.00	2,312.47	2,300.42	5.03	3.82	-77.31	150.18	-667.10	683.80	674.96	8.84	77.314		
2,400.00	2,400.00	2,412.53	2,400.47	5.25	3.99	-77.33	149.94	-667.08	683.73	674.48	9.24	73.967		
2,500.00	2,500.00	2,514.68	2,502.63	5.48	4.17	-77.37	149.50	-666.98	683.53	673.89	9.65	70.858		
2,600.00	2,600.00	2,614.07	2,602.02	5.70	4.35	-77.42	148.84	-666.76	683.17	673.13	10.04	68.014		
2,700.00	2,700.00	2,714.30	2,702.24	5.93	4.52	-77.46	148.27	-666.55	682.85	672.40	10.44	65.381		
2,800.00	2,800.00	2,812.51	2,800.45	6.15	4.69	-77.51	147.65	-666.49	682.65	671.81	10.84	62.973		
2,820.67	2,820.67	2,832.74	2,820.68	6.20	4.73	-77.52	147.55	-666.50	682.84	671.72	10.92	62.500		
2,900.00	2,900.00	2,911.04	2,898.98	6.38	4.87	-77.53	147.38	-666.63	682.73	671.49	11.24	60.756		
3,000.00	3,000.00	3,011.80	2,999.74	6.60	5.04	-77.54	147.35	-666.71	682.80	671.16	11.64	58.669		
3,100.00	3,100.00	3,110.04	3,097.98	6.83	5.21	-77.53	147.44	-666.80	682.91	670.87	12.03	56.744		
3,200.00	3,200.00	3,210.97	3,198.90	7.05	5.39	-77.48	148.13	-667.09	683.34	670.90	12.44	54.948		
3,300.00	3,300.00	3,316.35	3,304.28	7.28	5.57	-77.40	148.96	-666.58	683.04	670.19	12.84	53.177		
3,400.00	3,400.00	3,415.88	3,403.81	7.50	5.75	-77.37	149.20	-665.83	682.35	669.10	13.24	51.526		
3,500.00	3,500.00	3,515.95	3,503.88	7.73	5.92	-77.38	148.98	-665.34	681.83	668.19	13.64	49.982		
3,600.00	3,600.00	3,616.81	3,604.74	7.95	6.10	-77.41	148.45	-664.81	681.20	667.15	14.04	48.511		
3,700.00	3,700.00	3,716.11	3,704.03	8.17	6.27	-77.45	147.84	-664.28	680.55	666.11	14.44	47.129		
3,800.00	3,800.00	3,817.88	3,805.80	8.40	6.45	-77.47	147.45	-663.61	679.82	664.98	14.84	45.803		
3,900.00	3,900.00	3,918.15	3,906.06	8.62	6.62	-77.46	147.37	-662.68	678.90	663.66	15.24	44.542		
4,000.00	4,000.00	4,015.98	4,003.89	8.85	6.79	-77.47	147.13	-662.05	678.21	662.57	15.64	43.372		
4,100.00	4,100.00	4,115.32	4,103.23	9.07	6.96	-77.50	146.67	-661.57	677.64	661.60	16.04	42.260		
4,200.00	4,200.00	4,214.20	4,202.11	9.30	7.14	-77.52	146.31	-661.31	677.31	660.87	16.43	41.218		
4,300.00	4,300.00	4,313.97	4,301.87	9.52	7.31	-77.56	145.82	-661.08	676.97	660.14	16.83	40.221		
4,400.00	4,400.00	4,415.58	4,403.48	9.75	7.47	-77.60	145.33	-660.82	676.71	659.50	17.21	39.323		
4,500.00	4,500.00	4,523.32	4,511.20	9.97	7.56	-77.75	143.28	-660.16	675.63	658.10	17.53	38.541		
4,600.00	4,600.00	4,683.90	4,669.45	10.20	7.62	-79.63	119.99	-655.54	670.04	652.24	17.80	37.634		
4,700.00	4,700.00	4,825.05	4,795.48	10.42	7.83	-84.83	58.48	-646.19	655.82	637.58	18.25	35.945		
4,800.00	4,800.00	4,910.98	4,860.70	10.65	8.20	-89.73	3.00	-640.69	643.57	624.73	18.84	34.163		
4,888.91	4,888.91	4,952.38	4,888.90	10.85	8.45	-92.44	-27.23	-638.57	639.15	619.86	19.29	33.132 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	Local Co-ordinate Reference:	Well 9H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3152' + KB 26' @ 3178.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3152' + KB 26' @ 3178.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	9H	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 Draft 1	Offset TVD Reference:	Reference Datum

Offset Design Lone Tree Draw "13" State - 5H - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 233-ISCWSA-GYRO-3, 4541-LEAM MWD+IGRF, 9585-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)	Separation (usft)	Factor		
4,900.00	4,900.00	4,956.85	4,891.90	10.87	8.47	-92.74	-30.55	-638.44	639.22	619.88	19.34	33.043		
5,000.00	5,000.00	4,999.16	4,918.99	11.10	8.79	-95.64	-63.03	-637.90	646.11	626.22	19.89	32.490	SF	
5,100.00	5,100.00	5,032.54	4,937.74	11.32	9.09	-98.08	-90.62	-638.03	664.55	644.15	20.40	32.575		
5,200.00	5,200.00	5,062.00	4,951.61	11.55	9.37	-100.35	-116.59	-638.45	694.91	674.01	20.90	33.249		
5,300.00	5,300.00	5,062.00	4,951.61	11.77	9.37	-100.35	-116.59	-638.45	736.60	715.48	21.12	34.869		
5,400.00	5,400.00	5,088.40	4,961.76	12.00	9.68	-102.44	-140.95	-639.07	787.61	765.98	21.63	36.409		
5,500.00	5,500.00	5,110.00	4,968.46	12.22	9.94	-104.16	-161.46	-639.79	847.31	825.23	22.08	38.374		
5,600.00	5,600.00	5,110.00	4,968.46	12.45	9.94	-104.16	-161.46	-639.79	913.37	891.06	22.30	40.949		
5,700.00	5,700.00	5,110.00	4,968.46	12.67	9.94	-104.16	-161.46	-639.79	985.18	962.63	22.53	43.728		
5,800.00	5,800.00	5,110.00	4,968.46	12.89	9.94	-104.16	-161.46	-639.79	1,061.53	1,038.78	22.75	46.652		
5,900.00	5,900.00	5,125.70	4,972.33	13.12	10.14	-105.42	-176.66	-640.43	1,141.02	1,117.87	23.15	49.279		
6,000.00	6,000.00	5,141.00	4,975.18	13.34	10.34	-106.64	-191.67	-641.15	1,223.95	1,200.41	23.54	51.984		
6,100.00	6,100.00	5,141.00	4,975.18	13.57	10.34	-106.64	-191.67	-641.15	1,308.83	1,285.06	23.77	55.063		
6,200.00	6,200.00	5,141.00	4,975.18	13.79	10.34	-106.64	-191.67	-641.15	1,395.70	1,371.71	23.99	58.168		
6,300.00	6,300.00	5,141.00	4,975.18	14.02	10.34	-106.64	-191.67	-641.15	1,484.23	1,460.02	24.22	61.283		
6,400.00	6,400.00	5,141.00	4,975.18	14.24	10.34	-106.64	-191.67	-641.15	1,574.14	1,549.70	24.44	64.398		
6,500.00	6,500.00	5,141.00	4,975.18	14.47	10.34	-106.64	-191.67	-641.15	1,665.20	1,640.53	24.67	67.502		
6,600.00	6,600.00	5,141.00	4,975.18	14.69	10.34	-106.64	-191.67	-641.15	1,757.23	1,732.33	24.89	70.590		
6,700.00	6,700.00	5,141.00	4,975.18	14.92	10.34	-106.64	-191.67	-641.15	1,850.08	1,824.96	25.12	73.655		
6,800.00	6,800.00	5,141.00	4,975.18	15.14	10.34	-106.64	-191.67	-641.15	1,943.65	1,918.31	25.34	76.694		
6,900.00	6,900.00	5,141.00	4,975.18	15.37	10.34	-106.64	-191.67	-641.15	2,037.83	2,012.26	25.57	79.703		
7,000.00	7,000.00	5,141.00	4,975.18	15.59	10.34	-106.64	-191.67	-641.15	2,132.53	2,106.74	25.79	82.680		
7,100.00	7,100.00	5,141.00	4,975.18	15.82	10.34	-106.64	-191.67	-641.15	2,227.70	2,201.69	26.02	85.624		
7,200.00	7,200.00	5,141.00	4,975.18	16.04	10.34	-106.64	-191.67	-641.15	2,323.28	2,297.04	26.24	88.533		
7,221.58	7,221.58	5,141.00	4,975.18	16.09	10.34	-106.64	-191.67	-641.15	2,343.95	2,317.66	26.29	89.156		
7,250.00	7,249.99	5,141.00	4,975.18	16.15	10.34	61.96	-191.67	-641.15	2,371.13	2,344.90	26.23	90.414		
7,300.00	7,299.76	5,141.00	4,975.18	16.23	10.34	49.75	-191.67	-641.15	2,418.49	2,392.59	25.89	93.406		
7,350.00	7,348.93	5,141.00	4,975.18	16.32	10.34	40.74	-191.67	-641.15	2,465.01	2,439.53	25.48	96.751		
7,400.00	7,397.13	5,162.33	4,977.79	16.40	10.64	33.61	-212.82	-642.15	2,509.60	2,484.48	25.12	99.912		
7,450.00	7,444.00	5,164.78	4,977.99	16.49	10.68	28.86	-215.23	-642.25	2,553.38	2,528.80	24.59	103.858		
7,500.00	7,489.17	5,188.00	4,978.98	16.57	11.00	24.97	-238.43	-643.11	2,596.16	2,572.08	24.07	107.837		
7,550.00	7,532.31	5,188.00	4,978.96	16.66	11.00	22.31	-238.43	-643.11	2,636.06	2,612.65	23.41	112.623		
7,600.00	7,573.08	5,188.00	4,978.96	16.77	11.00	20.23	-238.43	-643.11	2,673.79	2,651.11	22.68	117.883		
7,650.00	7,611.18	5,188.00	4,978.96	16.91	11.00	18.56	-238.43	-643.11	2,709.16	2,687.25	21.91	123.649		
7,700.00	7,646.31	5,188.00	4,978.96	17.07	11.00	17.22	-238.43	-643.11	2,742.01	2,720.91	21.10	129.931		
7,750.00	7,678.21	5,188.00	4,978.96	17.26	11.00	16.14	-238.43	-643.11	2,772.17	2,751.89	20.28	136.696		
7,800.00	7,706.64	5,188.00	4,978.96	17.48	11.00	15.25	-238.43	-643.11	2,799.52	2,780.05	19.46	143.853		
7,850.00	7,731.37	5,217.06	4,978.87	17.74	11.44	14.45	-267.48	-643.97	2,823.59	2,804.81	18.77	150.398		
7,900.00	7,752.22	5,240.00	4,978.52	18.03	11.79	13.82	-290.41	-644.50	2,844.30	2,826.18	18.13	156.919		
7,950.00	7,769.04	5,266.94	4,977.88	18.36	12.22	13.33	-317.34	-645.02	2,861.45	2,843.85	17.60	162.618		
8,000.00	7,781.69	5,297.47	4,976.97	18.73	12.72	12.95	-347.85	-645.56	2,874.85	2,857.63	17.22	166.974		
8,050.00	7,790.07	5,331.00	4,975.73	19.13	13.26	12.88	-381.35	-646.08	2,884.42	2,867.40	17.02	169.475		
8,100.00	7,794.13	5,364.00	4,974.30	19.56	13.83	12.51	-414.32	-646.51	2,890.06	2,873.03	17.04	169.631		
8,119.95	7,794.54	5,378.34	4,973.63	19.74	14.08	12.47	-428.65	-646.68	2,891.20	2,874.09	17.11	169.002		
8,200.00	7,794.76	5,627.41	4,966.90	20.51	18.30	12.09	-677.44	-641.04	2,892.58	2,874.04	18.55	155.966		
8,300.00	7,785.05	5,714.19	4,966.06	21.58	19.89	11.89	-764.04	-635.87	2,891.41	2,872.00	19.41	148.973		
8,400.00	7,795.33	5,855.52	4,966.49	22.73	22.51	11.54	-804.94	-624.60	2,888.45	2,867.82	20.63	140.002		
8,500.00	7,795.62	5,980.65	4,966.63	23.97	24.91	11.18	-1,029.46	-612.31	2,885.72	2,863.89	21.82	132.223		
8,600.00	7,795.90	6,148.00	4,971.08	25.28	27.99	10.72	-1,195.97	-596.44	2,880.21	2,856.90	23.31	123.551		
8,700.00	7,796.19	6,211.61	4,973.34	26.65	29.20	10.58	-1,259.41	-592.35	2,874.94	2,850.88	24.26	118.520		

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 9H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3152' + KB 26' @ 3178.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3152' + KB 26' @ 3178.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	9H	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 Draft 1	Offset TVD Reference:	Reference Datum

Offset Design Lone Tree Draw "13" State - 5H - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 233-ISCWSA-GYRO-3, 4541-LEAM MWD+IGRF, 9585-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		
8,800.00	7,796.47	6,268.80	4,974.52	28.07	30.29	10.47	-1,316.50	-589.20	2,871.23	2,846.04	25.19	113.976		
8,900.00	7,796.75	6,338.00	4,975.17	29.54	31.63	10.35	-1,385.66	-586.93	2,868.98	2,842.75	26.23	109.363		
9,000.00	7,797.04	6,386.81	4,975.07	31.04	32.58	10.29	-1,434.46	-586.10	2,868.11	2,840.94	27.17	105.547		
9,007.16	7,797.06	6,390.93	4,975.03	31.15	32.66	10.28	-1,438.58	-586.04	2,868.11	2,840.86	27.25	105.266		
9,100.00	7,797.32	6,433.00	4,974.44	32.57	33.47	10.23	-1,480.64	-585.52	2,868.79	2,840.67	28.11	102.044		
9,200.00	7,797.61	6,527.00	4,971.99	34.13	35.33	10.11	-1,574.60	-584.70	2,870.59	2,841.20	29.38	97.691		
9,300.00	7,797.89	6,611.00	4,971.76	35.72	40.84	9.56	-1,658.22	-571.38	2,869.04	2,837.19	31.85	90.078		
9,400.00	7,798.18	6,900.70	4,974.11	37.32	42.59	9.36	-1,947.71	-565.66	2,864.83	2,831.75	33.09	86.586		
9,500.00	7,798.46	6,995.46	4,976.43	38.95	44.46	9.17	-2,042.28	-560.24	2,860.94	2,826.57	34.37	83.245		
9,600.00	7,798.75	7,084.56	4,978.51	40.59	46.21	9.00	-2,131.26	-555.93	2,857.33	2,821.70	35.63	80.202		
9,700.00	7,799.03	7,165.73	4,980.04	42.25	47.83	8.85	-2,212.32	-552.20	2,854.24	2,817.40	36.84	77.472		
9,800.00	7,799.32	7,241.98	4,981.03	43.91	49.33	8.72	-2,288.52	-549.46	2,851.90	2,813.86	38.04	74.976		
9,900.00	7,799.60	7,315.45	4,981.46	45.59	50.79	8.61	-2,361.96	-547.56	2,850.46	2,811.23	39.23	72.669		
9,988.41	7,799.85	7,379.00	4,981.34	47.09	52.04	8.52	-2,425.50	-546.59	2,849.99	2,809.72	40.28	70.763		
10,000.00	7,799.88	7,379.00	4,981.34	47.28	52.04	8.52	-2,425.50	-546.59	2,850.01	2,809.65	40.36	70.619		
10,041.96	7,800.00	7,420.10	4,981.03	48.00	52.86	8.47	-2,466.60	-546.22	2,850.07	2,809.13	40.93	69.627		
10,100.00	7,800.06	7,473.00	4,980.40	48.94	53.92	8.40	-2,519.50	-545.91	2,850.24	2,808.56	41.68	68.389		
10,105.36	7,800.05	7,473.00	4,980.40	49.03	53.92	8.40	-2,519.50	-545.91	2,850.23	2,808.52	41.71	68.330		
10,152.80	7,799.92	7,508.92	4,979.83	49.77	54.63	8.34	-2,555.41	-545.73	2,850.24	2,807.98	42.26	67.447		
10,179.72	7,799.80	7,532.13	4,979.42	50.21	55.10	8.29	-2,578.62	-545.56	2,850.22	2,807.82	42.60	66.910		
10,200.00	7,799.71	7,549.62	4,979.08	50.54	55.45	8.26	-2,596.10	-545.41	2,850.23	2,807.38	42.85	66.513		
10,300.00	7,799.27	7,700.94	4,976.85	52.24	58.42	7.91	-2,747.35	-541.62	2,849.76	2,805.27	44.50	64.046		
10,400.00	7,798.83	7,808.12	4,976.69	53.96	60.53	7.61	-2,854.38	-536.08	2,847.54	2,801.70	45.84	62.119		
10,500.00	7,798.40	7,946.38	4,976.30	55.68	63.28	7.22	-2,992.45	-528.77	2,845.74	2,798.37	47.36	60.082		
10,600.00	7,797.96	8,028.16	4,976.77	57.40	64.89	6.99	-3,074.09	-523.99	2,842.89	2,794.33	48.56	58.550		
10,700.00	7,797.52	8,102.30	4,976.71	59.13	66.39	6.78	-3,148.12	-520.03	2,840.83	2,791.12	49.71	57.152		
10,800.00	7,797.08	8,200.68	4,975.98	60.86	68.34	6.50	-3,246.37	-515.07	2,839.51	2,788.51	51.00	55.676		
10,900.00	7,796.64	8,305.54	4,975.70	62.60	70.41	6.23	-3,351.14	-510.73	2,837.88	2,785.54	52.34	54.215		
11,000.00	7,796.20	8,438.83	4,976.29	64.34	73.04	5.88	-3,484.32	-505.30	2,835.51	2,781.75	53.86	52.647		
11,100.00	7,795.77	8,518.23	4,976.83	66.09	74.59	5.69	-3,563.67	-502.65	2,833.24	2,778.18	55.06	51.456		
11,200.00	7,795.33	8,637.12	4,977.95	67.84	76.92	5.41	-3,662.51	-499.29	2,830.69	2,774.18	56.51	50.092		
11,300.00	7,794.89	8,721.25	4,978.68	69.59	78.57	5.23	-3,766.62	-497.61	2,828.36	2,770.61	57.75	48.973		
11,400.00	7,794.45	8,813.93	4,979.23	71.35	80.42	5.03	-3,859.28	-495.92	2,826.38	2,767.33	59.05	47.862		
11,500.00	7,794.01	8,896.55	4,979.29	73.11	82.07	4.86	-3,941.89	-494.62	2,824.95	2,764.65	60.29	46.854		
11,600.00	7,793.57	9,046.43	4,980.88	74.87	85.01	4.53	-4,091.72	-491.42	2,822.36	2,760.41	61.95	45.560		
11,700.00	7,793.14	9,142.80	4,982.27	76.63	86.92	4.29	-4,188.03	-488.09	2,819.52	2,756.26	63.26	44.569		
11,800.00	7,792.70	9,235.61	4,983.45	78.40	88.77	4.06	-4,280.76	-484.65	2,816.89	2,752.34	64.55	43.637		
11,900.00	7,792.26	9,323.20	4,984.31	80.16	90.53	3.84	-4,368.30	-481.68	2,814.62	2,748.80	65.82	42.764		
12,000.00	7,791.82	9,433.66	4,985.15	81.93	92.74	3.57	-4,478.70	-478.07	2,812.65	2,745.42	67.23	41.837		
12,100.00	7,791.38	9,529.00	4,986.15	83.71	94.65	3.32	-4,573.84	-473.93	2,810.35	2,741.81	68.54	41.003		
12,187.37	7,791.00	9,585.00	4,986.54	85.25	94.65	3.17	-4,629.89	-471.47	2,808.79	2,739.72	69.07	40.668		

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 9H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3152' + KB 26' @ 3178.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3152' + KB 26' @ 3178.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	9H	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 Draft 1	Offset TVD Reference:	Reference Datum

Offset Design Lone Tree Draw "13" State - 6H - OH - Plan #1 Draft 1													Offset Site Error:	0.00 usft	
Survey Program: O-LEAM MWD-ADJ													Offset Well Error:		0.00 usft
Reference	Offset		Semi Major Axis		Highside Tooface (')	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)		Offset (usft)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)				Between Ellipses (usft)		
0.00	0.00	49.00	0.00	0.00	0.04	-88.71	106.07	-4,701.00	4,702.20						
100.00	100.00	149.00	100.00	0.08	0.19	-88.71	106.07	-4,701.00	4,702.20	4,701.92	0.28	N/A			
200.00	200.00	249.00	200.00	0.31	0.42	-88.71	106.07	-4,701.00	4,702.20	4,701.47	0.73	6,476.904			
300.00	300.00	349.00	300.00	0.53	0.64	-88.71	106.07	-4,701.00	4,702.20	4,701.02	1.18	4,000.077			
400.00	400.00	449.00	400.00	0.76	0.87	-88.71	106.07	-4,701.00	4,702.20	4,700.57	1.63	2,893.555			
500.00	500.00	549.00	500.00	0.98	1.09	-88.71	106.07	-4,701.00	4,702.20	4,700.12	2.07	2,266.566			
600.00	600.00	649.00	600.00	1.21	1.32	-88.71	106.07	-4,701.00	4,702.20	4,699.67	2.52	1,862.903			
700.00	700.00	749.00	700.00	1.43	1.54	-88.71	106.07	-4,701.00	4,702.20	4,699.22	2.97	1,581.285			
800.00	800.00	849.00	800.00	1.66	1.77	-88.71	106.07	-4,701.00	4,702.20	4,698.77	3.42	1,373.631			
900.00	900.00	949.00	900.00	1.88	1.99	-88.71	106.07	-4,701.00	4,702.20	4,698.32	3.87	1,214.185			
1,000.00	1,000.00	1,049.00	1,000.00	2.11	2.22	-88.71	106.07	-4,701.00	4,702.20	4,697.87	4.32	1,087.905			
1,100.00	1,100.00	1,149.00	1,100.00	2.33	2.44	-88.71	106.07	-4,701.00	4,702.20	4,697.42	4.77	985.417			
1,200.00	1,200.00	1,249.00	1,200.00	2.56	2.67	-88.71	106.07	-4,701.00	4,702.20	4,696.98	5.22	900.577			
1,300.00	1,300.00	1,349.00	1,300.00	2.78	2.89	-88.71	106.07	-4,701.00	4,702.20	4,696.53	5.67	829.188			
1,400.00	1,400.00	1,449.00	1,400.00	3.01	3.12	-88.71	106.07	-4,701.00	4,702.20	4,696.08	6.12	768.285			
1,500.00	1,500.00	1,549.00	1,500.00	3.23	3.34	-88.71	106.07	-4,701.00	4,702.20	4,695.63	6.57	715.717			
1,600.00	1,600.00	1,649.00	1,600.00	3.45	3.56	-88.71	106.07	-4,701.00	4,702.20	4,695.18	7.02	669.882			
1,700.00	1,700.00	1,749.00	1,700.00	3.68	3.79	-88.71	106.07	-4,701.00	4,702.20	4,694.73	7.47	629.564			
1,800.00	1,800.00	1,849.00	1,800.00	3.90	4.01	-88.71	106.07	-4,701.00	4,702.20	4,694.28	7.92	593.824			
1,900.00	1,900.00	1,949.00	1,900.00	4.13	4.24	-88.71	106.07	-4,701.00	4,702.20	4,693.83	8.37	561.923			
2,000.00	2,000.00	2,049.00	2,000.00	4.35	4.46	-88.71	106.07	-4,701.00	4,702.20	4,693.38	8.82	533.276			
2,100.00	2,100.00	2,149.00	2,100.00	4.58	4.69	-88.71	106.07	-4,701.00	4,702.20	4,692.93	9.27	507.407			
2,200.00	2,200.00	2,249.00	2,200.00	4.80	4.91	-88.71	106.07	-4,701.00	4,702.20	4,692.48	9.72	483.933			
2,300.00	2,300.00	2,349.00	2,300.00	5.03	5.14	-88.71	106.07	-4,701.00	4,702.20	4,692.03	10.17	462.534			
2,400.00	2,400.00	2,449.00	2,400.00	5.25	5.36	-88.71	106.07	-4,701.00	4,702.20	4,691.58	10.62	442.947			
2,500.00	2,500.00	2,549.00	2,500.00	5.48	5.59	-88.71	106.07	-4,701.00	4,702.20	4,691.13	11.07	424.952			
2,600.00	2,600.00	2,649.00	2,600.00	5.70	5.81	-88.71	106.07	-4,701.00	4,702.20	4,690.68	11.51	408.362			
2,700.00	2,700.00	2,749.00	2,700.00	5.93	6.04	-88.71	106.07	-4,701.00	4,702.20	4,690.23	11.96	393.019			
2,800.00	2,800.00	2,849.00	2,800.00	6.15	6.26	-88.71	106.07	-4,701.00	4,702.20	4,689.78	12.41	378.787			
2,900.00	2,900.00	2,949.00	2,900.00	6.38	6.49	-88.71	106.07	-4,701.00	4,702.20	4,689.33	12.86	365.550			
3,000.00	3,000.00	3,049.00	3,000.00	6.60	6.71	-88.71	106.07	-4,701.00	4,702.20	4,688.88	13.31	353.206			
3,100.00	3,100.00	3,149.00	3,100.00	6.83	6.94	-88.71	106.07	-4,701.00	4,702.20	4,688.43	13.76	341.669			
3,200.00	3,200.00	3,249.00	3,200.00	7.05	7.16	-88.71	106.07	-4,701.00	4,702.20	4,687.98	14.21	330.862			
3,300.00	3,300.00	3,349.00	3,300.00	7.28	7.39	-88.71	106.07	-4,701.00	4,702.20	4,687.54	14.66	320.718			
3,400.00	3,400.00	3,449.00	3,400.00	7.50	7.61	-88.71	106.07	-4,701.00	4,702.20	4,687.09	15.11	311.177			
3,500.00	3,500.00	3,549.00	3,500.00	7.73	7.84	-88.71	106.07	-4,701.00	4,702.20	4,686.64	15.56	302.187			
3,600.00	3,600.00	3,649.00	3,600.00	7.95	8.06	-88.71	106.07	-4,701.00	4,702.20	4,686.19	16.01	293.702			
3,700.00	3,700.00	3,749.00	3,700.00	8.17	8.28	-88.71	106.07	-4,701.00	4,702.20	4,685.74	16.46	285.681			
3,800.00	3,800.00	3,849.00	3,800.00	8.40	8.51	-88.71	106.07	-4,701.00	4,702.20	4,685.29	16.91	278.086			
3,900.00	3,900.00	3,949.00	3,900.00	8.62	8.73	-88.71	106.07	-4,701.00	4,702.20	4,684.84	17.36	270.884			
4,000.00	4,000.00	4,049.00	4,000.00	8.85	8.96	-88.71	106.07	-4,701.00	4,702.20	4,684.39	17.81	264.047			
4,100.00	4,100.00	4,149.00	4,100.00	9.07	9.18	-88.71	106.07	-4,701.00	4,702.20	4,683.94	18.26	257.545			
4,200.00	4,200.00	4,249.00	4,200.00	9.30	9.41	-88.71	106.07	-4,701.00	4,702.20	4,683.49	18.71	251.357			
4,300.00	4,300.00	4,349.00	4,300.00	9.52	9.63	-88.71	106.07	-4,701.00	4,702.20	4,683.04	19.16	245.458			
4,400.00	4,400.00	4,449.00	4,400.00	9.75	9.86	-88.71	106.07	-4,701.00	4,702.20	4,682.59	19.61	239.830			
4,500.00	4,500.00	4,549.00	4,500.00	9.97	10.08	-88.71	106.07	-4,701.00	4,702.20	4,682.14	20.06	234.455			
4,600.00	4,600.00	4,649.00	4,600.00	10.20	10.31	-88.71	106.07	-4,701.00	4,702.20	4,681.69	20.51	229.315			
4,700.00	4,700.00	4,749.00	4,700.00	10.42	10.53	-88.71	106.07	-4,701.00	4,702.20	4,681.24	20.95	224.396			
4,800.00	4,800.00	4,849.00	4,800.00	10.65	10.76	-88.71	106.07	-4,701.00	4,702.20	4,680.79	21.40	219.683			
4,900.00	4,900.00	4,949.00	4,900.00	10.87	10.98	-88.71	106.07	-4,701.00	4,702.20	4,680.34	21.85	215.164			
5,000.00	5,000.00	5,049.00	5,000.00	11.10	11.21	-88.71	106.07	-4,701.00	4,702.20	4,679.89	22.30	210.827			

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	Local Co-ordinate Reference:	Well 9H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3152' + KB 26' @ 3178.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3152' + KB 26' @ 3178.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	9H	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 Draft 1	Offset TVD Reference:	Reference Datum

Offset Design Lone Tree Draw "13" State - 6H - OH - Plan #1 Draft 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		
5,100.00	5,100.00	5,149.00	5,100.00	11.32	11.43	-88.71	106.07	-4,701.00	4,702.20	4,679.44	22.75	206.662		
5,200.00	5,200.00	5,249.00	5,200.00	11.55	11.66	-88.71	106.07	-4,701.00	4,702.20	4,678.99	23.20	202.658		
5,300.00	5,300.00	5,349.00	5,300.00	11.77	11.88	-88.71	106.07	-4,701.00	4,702.20	4,678.54	23.65	198.806		
5,400.00	5,400.00	5,449.00	5,400.00	12.00	12.11	-88.71	106.07	-4,701.00	4,702.20	4,678.09	24.10	195.098		
5,500.00	5,500.00	5,549.00	5,500.00	12.22	12.33	-88.71	106.07	-4,701.00	4,702.20	4,677.65	24.55	191.526		
5,600.00	5,600.00	5,649.00	5,600.00	12.45	12.56	-88.71	106.07	-4,701.00	4,702.20	4,677.20	25.00	188.082		
5,700.00	5,700.00	5,749.00	5,700.00	12.67	12.78	-88.71	106.07	-4,701.00	4,702.20	4,676.75	25.45	184.760		
5,800.00	5,800.00	5,849.00	5,800.00	12.89	13.00	-88.71	106.07	-4,701.00	4,702.20	4,676.30	25.90	181.553		
5,900.00	5,900.00	5,949.00	5,900.00	13.12	13.23	-88.71	106.07	-4,701.00	4,702.20	4,675.85	26.35	178.456		
6,000.00	6,000.00	6,049.00	6,000.00	13.34	13.45	-88.71	106.07	-4,701.00	4,702.20	4,675.40	26.80	175.463		
6,100.00	6,100.00	6,149.00	6,100.00	13.57	13.68	-88.71	106.07	-4,701.00	4,702.20	4,674.95	27.25	172.568		
6,200.00	6,200.00	6,249.00	6,200.00	13.79	13.90	-88.71	106.07	-4,701.00	4,702.20	4,674.50	27.70	169.767		
6,300.00	6,300.00	6,349.00	6,300.00	14.02	14.13	-88.71	106.07	-4,701.00	4,702.20	4,674.05	28.15	167.056		
6,400.00	6,400.00	6,449.00	6,400.00	14.24	14.35	-88.71	106.07	-4,701.00	4,702.20	4,673.60	28.60	164.430		
6,500.00	6,500.00	6,549.00	6,500.00	14.47	14.58	-88.71	106.07	-4,701.00	4,702.20	4,673.15	29.05	161.885		
6,600.00	6,600.00	6,649.00	6,600.00	14.69	14.80	-88.71	106.07	-4,701.00	4,702.20	4,672.70	29.50	159.418		
6,700.00	6,700.00	6,749.00	6,700.00	14.92	15.03	-88.71	106.07	-4,701.00	4,702.20	4,672.25	29.95	157.025		
6,800.00	6,800.00	6,849.00	6,800.00	15.14	15.25	-88.71	106.07	-4,701.00	4,702.20	4,671.80	30.40	154.702		
6,900.00	6,900.00	6,949.00	6,900.00	15.37	15.48	-88.71	106.07	-4,701.00	4,702.20	4,671.35	30.84	152.448		
7,000.00	7,000.00	7,049.00	7,000.00	15.59	15.70	-88.71	106.07	-4,701.00	4,702.20	4,670.90	31.29	150.256		
7,100.00	7,100.00	7,149.00	7,100.00	15.82	15.93	-88.71	106.07	-4,701.00	4,702.20	4,670.45	31.74	148.130		
7,200.00	7,200.00	7,249.46	7,245.36	16.04	16.22	-88.74	103.10	-4,700.78	4,702.13	4,669.87	32.26	145.742		
7,221.58	7,221.58	7,388.35	7,337.56	16.09	16.39	-88.95	85.99	-4,699.54	4,701.76	4,669.30	32.46	144.840		
7,250.00	7,249.99	7,501.11	7,442.75	16.15	16.58	87.77	45.98	-4,696.64	4,700.79	4,668.08	32.71	143.725		
7,300.00	7,299.76	7,664.26	7,576.48	16.23	16.95	87.07	-46.27	-4,689.95	4,698.01	4,664.84	33.17	141.643		
7,350.00	7,348.93	7,787.51	7,657.20	16.32	17.40	86.50	-138.84	-4,683.23	4,694.29	4,660.59	33.70	139.293		
7,400.00	7,397.13	7,882.34	7,704.72	16.40	17.90	86.12	-220.57	-4,677.30	4,689.98	4,655.71	34.27	136.854		
7,450.00	7,444.00	7,958.26	7,732.61	16.49	18.39	85.90	-290.94	-4,672.19	4,685.28	4,650.44	34.84	134.484		
7,500.00	7,489.17	8,021.60	7,748.57	16.57	18.87	85.80	-352.04	-4,667.76	4,680.32	4,644.92	35.40	132.205		
7,550.00	7,532.31	8,076.33	7,756.85	16.66	19.33	85.79	-405.98	-4,663.85	4,675.18	4,639.23	35.95	130.034		
7,600.00	7,573.08	8,125.02	7,759.85	16.77	19.77	85.85	-454.44	-4,660.33	4,669.91	4,633.41	36.50	127.940		
7,650.00	7,611.18	8,163.45	7,759.55	16.91	20.14	86.02	-492.76	-4,657.55	4,664.55	4,627.55	37.00	126.078		
7,700.00	7,646.31	8,198.08	7,758.91	17.07	20.49	86.25	-527.30	-4,655.05	4,659.17	4,621.68	37.50	124.261		
7,750.00	7,678.21	8,235.68	7,758.22	17.26	20.89	86.49	-564.78	-4,652.33	4,653.76	4,615.68	38.08	122.202		
7,800.00	7,706.64	8,275.95	7,757.48	17.48	21.33	86.75	-604.94	-4,649.41	4,648.29	4,609.56	38.73	120.006		
7,850.00	7,731.37	8,318.59	7,756.69	17.74	21.81	87.04	-647.47	-4,646.33	4,642.74	4,603.27	39.47	117.642		
7,900.00	7,752.22	8,363.28	7,755.87	18.03	22.34	87.36	-692.03	-4,643.09	4,637.08	4,596.80	40.28	115.114		
7,950.00	7,769.04	8,409.67	7,755.01	18.36	22.90	87.74	-738.30	-4,639.74	4,631.30	4,590.14	41.17	112.503		
8,000.00	7,781.69	8,457.42	7,754.13	18.73	23.50	88.17	-785.91	-4,636.28	4,625.41	4,583.28	42.14	109.775		
8,050.00	7,790.07	8,506.16	7,753.23	19.13	24.13	88.66	-834.51	-4,632.75	4,619.41	4,576.26	43.16	107.038		
8,100.00	7,794.13	8,555.52	7,752.32	19.56	24.79	89.21	-883.73	-4,629.18	4,613.32	4,569.08	44.25	104.261		
8,119.95	7,794.54	8,575.30	7,751.96	19.74	25.06	89.45	-903.46	-4,627.75	4,610.88	4,566.18	44.69	103.169		
8,200.00	7,794.76	8,654.72	7,750.49	20.51	26.16	89.42	-982.66	-4,622.01	4,601.04	4,554.49	46.55	98.839		
8,300.00	7,795.05	8,753.94	7,748.66	21.58	27.58	89.40	-1,081.60	-4,614.83	4,588.75	4,539.73	49.02	93.610		
8,400.00	7,795.33	8,853.16	7,746.83	22.73	29.05	89.37	-1,180.54	-4,607.65	4,576.47	4,524.84	51.63	88.636		
8,500.00	7,795.62	8,952.37	7,745.01	23.97	30.56	89.34	-1,279.48	-4,600.47	4,564.18	4,509.82	54.37	83.952		
8,600.00	7,795.90	9,051.59	7,743.18	25.28	32.10	89.31	-1,378.42	-4,593.29	4,551.90	4,494.69	57.21	79.569		
8,700.00	7,796.19	9,150.81	7,741.35	26.65	33.68	89.28	-1,477.36	-4,586.11	4,539.62	4,479.46	60.14	75.489		
8,800.00	7,796.47	9,250.03	7,739.52	28.07	35.28	89.25	-1,576.30	-4,578.93	4,527.34	4,464.19	63.14	71.699		
8,900.00	7,796.75	9,349.24	7,737.69	29.54	36.91	89.22	-1,675.24	-4,571.75	4,515.06	4,448.84	66.22	68.187		

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

Leam Drilling Systems LLC

Anticollision Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 9H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3152' + KB 26' @ 3178.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3152' + KB 26' @ 3178.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	9H	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 Draft 1	Offset TVD Reference:	Reference Datum

Offset Design Lone Tree Draw "13" State - 6H - OH - Plan #1 Draft 1													Offset Site Error:	0.00 usft
Survey Program: 0-LEAM MWD-ADJ													Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
9,000.00	7,797.04	9,448.46	7,735.86	31.04	38.55	89.20	-1,774.18	-4,584.58	4,502.78	4,433.43	69.35	64.932		
9,100.00	7,797.32	9,547.68	7,734.03	32.57	40.22	89.17	-1,873.12	-4,557.40	4,490.50	4,417.98	72.53	61.915		
9,200.00	7,797.61	9,646.89	7,732.20	34.13	41.89	89.14	-1,972.06	-4,550.22	4,478.23	4,402.48	75.75	59.119		
9,300.00	7,797.89	9,746.11	7,730.37	35.72	43.58	89.11	-2,071.00	-4,543.04	4,465.95	4,386.94	79.01	56.523		
9,400.00	7,798.18	9,845.33	7,728.54	37.32	45.29	89.08	-2,169.94	-4,535.86	4,453.68	4,371.37	82.30	54.112		
9,500.00	7,798.46	9,944.55	7,726.72	38.95	47.00	89.05	-2,268.88	-4,528.68	4,441.40	4,355.78	85.63	51.868		
9,600.00	7,798.75	10,043.76	7,724.89	40.59	48.73	89.02	-2,367.82	-4,521.50	4,429.13	4,340.15	88.98	49.778		
9,700.00	7,799.03	10,142.98	7,723.06	42.25	50.46	88.99	-2,466.76	-4,514.32	4,416.86	4,324.51	92.35	47.828		
9,800.00	7,799.32	10,242.20	7,721.23	43.91	52.20	88.96	-2,565.71	-4,507.15	4,404.59	4,308.85	95.74	46.005		
9,900.00	7,799.60	10,341.41	7,719.40	45.59	53.94	88.93	-2,664.65	-4,499.97	4,392.32	4,293.17	99.15	44.288		
10,000.00	7,799.88	10,440.63	7,717.57	47.28	55.70	88.89	-2,763.59	-4,492.79	4,380.06	4,277.48	102.58	42.698		
10,041.96	7,800.00	10,482.27	7,716.80	48.00	56.44	88.88	-2,805.10	-4,489.78	4,374.91	4,270.89	104.02	42.057		
10,100.00	7,800.06	10,539.78	7,715.74	48.94	57.46	88.89	-2,862.45	-4,485.61	4,367.22	4,261.38	105.83	41.264		
10,152.80	7,799.92	10,591.95	7,714.78	49.77	58.38	88.91	-2,914.49	-4,481.84	4,359.22	4,251.81	107.41	40.585		
10,200.00	7,799.71	10,638.54	7,713.92	50.54	59.21	88.90	-2,960.94	-4,478.47	4,351.65	4,242.65	109.00	39.924		
10,300.00	7,799.27	10,737.23	7,712.10	52.24	60.97	88.87	-3,059.36	-4,471.33	4,335.61	4,223.17	112.44	38.560		
10,400.00	7,798.83	10,835.92	7,710.28	53.96	62.74	88.85	-3,157.77	-4,464.19	4,319.57	4,203.68	115.89	37.273		
10,500.00	7,798.40	10,934.61	7,708.46	55.68	64.50	88.83	-3,256.19	-4,457.05	4,303.54	4,184.18	119.35	36.058		
10,600.00	7,797.96	11,033.30	7,706.64	57.40	66.28	88.80	-3,354.60	-4,449.91	4,287.50	4,164.68	122.82	34.908		
10,700.00	7,797.52	11,131.99	7,704.82	59.13	68.05	88.78	-3,453.02	-4,442.77	4,271.46	4,145.16	126.30	33.819		
10,800.00	7,797.08	11,230.68	7,703.01	60.86	69.83	88.76	-3,551.43	-4,435.63	4,255.43	4,125.64	129.79	32.787		
10,900.00	7,796.64	11,329.37	7,701.19	62.60	71.61	88.73	-3,649.85	-4,428.48	4,239.39	4,106.11	133.28	31.807		
11,000.00	7,796.20	11,428.07	7,699.37	64.34	73.40	88.71	-3,748.26	-4,421.34	4,223.36	4,086.57	136.78	30.876		
11,100.00	7,795.77	11,526.76	7,697.55	66.09	75.18	88.69	-3,846.68	-4,414.20	4,207.32	4,067.03	140.29	29.990		
11,200.00	7,795.33	11,625.45	7,695.73	67.84	76.97	88.66	-3,945.09	-4,407.06	4,191.29	4,047.49	143.80	29.146		
11,300.00	7,794.89	11,724.14	7,693.91	69.59	78.76	88.64	-4,043.51	-4,399.92	4,175.26	4,027.94	147.32	28.341		
11,400.00	7,794.45	11,822.83	7,692.09	71.35	80.55	88.61	-4,141.92	-4,392.78	4,159.23	4,008.38	150.85	27.573		
11,500.00	7,794.01	11,921.52	7,690.27	73.11	82.35	88.59	-4,240.34	-4,385.64	4,143.20	3,988.82	154.37	26.839		
11,600.00	7,793.57	12,020.21	7,688.45	74.87	84.15	88.56	-4,338.75	-4,378.50	4,127.17	3,969.26	157.90	26.137		
11,700.00	7,793.14	12,118.90	7,686.63	76.63	85.94	88.54	-4,437.17	-4,371.36	4,111.14	3,949.70	161.44	25.466		
11,800.00	7,792.70	12,217.59	7,684.81	78.40	87.74	88.51	-4,535.58	-4,364.22	4,095.11	3,930.13	164.98	24.822		
11,900.00	7,792.26	12,316.28	7,682.99	80.16	89.54	88.49	-4,634.00	-4,357.08	4,079.08	3,910.56	168.52	24.205		
12,000.00	7,791.82	12,370.13	7,682.00	81.93	90.53	88.47	-4,687.70	-4,353.18	4,063.30	3,892.04	171.26	23.726		
12,100.00	7,791.38	12,370.13	7,682.00	83.71	90.53	88.47	-4,687.70	-4,353.18	4,049.57	3,876.54	173.03	23.404		
12,187.37	7,791.00	12,370.13	7,682.00	85.25	90.53	88.47	-4,687.70	-4,353.18	4,039.57	3,864.99	174.58	23.139	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 9H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3152' + KB 26' @ 3178.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3152' + KB 26' @ 3178.00usft (Original Well Elev)
Site Error:	0.00' usft	North Reference:	Grid
Reference Well:	9H	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 Draft 1	Offset TVD Reference:	Reference Datum

Offset Design Lone Tree Draw "13" State - 7H - OH - OH														Offset Site Error:	0.00 usft
Survey Program: 100-NS-GYRO-MS, 2922-LEAM MWD-ADJ, 12456-Project														Offset Well Error:	0.00 usft
Reference	Vertical Depth (usft)	Offset		Semi Major Axis		Highside Tooface (')	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning		
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/S (usft)	+E/W (usft)	Between Centres (usft)	Between Ellipses (usft)					
0.00	0.00	35.12	1.12	0.00	0.03	-87.36	140.87	-3,058.48	3,061.72						
100.00	100.00	133.30	99.30	0.08	0.17	-87.36	140.93	-3,058.42	3,061.66	3,061.41	0.25	N/A			
200.00	200.00	223.99	189.99	0.31	0.36	-87.36	141.23	-3,058.58	3,061.85	3,061.19	0.67	4,587.41			
300.00	300.00	317.32	283.31	0.53	0.55	-87.35	141.50	-3,058.96	3,062.28	3,061.20	1.08	2,838.342			
400.00	400.00	400.00	366.00	0.76	0.70	-87.35	141.36	-3,059.54	3,062.99	3,061.54	1.45	2,107.463			
500.00	500.00	489.66	455.64	0.98	0.85	-87.37	140.56	-3,060.60	3,064.14	3,062.31	1.84	1,668.930			
600.00	600.00	583.33	549.29	1.21	1.04	-87.40	139.08	-3,062.14	3,065.72	3,063.47	2.25	1,364.168			
700.00	700.00	692.98	658.91	1.43	1.29	-87.43	137.43	-3,063.90	3,067.26	3,064.54	2.72	1,128.513			
800.00	800.00	796.62	762.54	1.66	1.54	-87.45	136.64	-3,065.25	3,068.53	3,065.33	3.20	959.334			
900.00	900.00	885.50	851.41	1.88	1.77	-87.46	136.23	-3,066.51	3,069.92	3,066.27	3.65	840.826			
1,000.00	1,000.00	975.67	941.57	2.11	2.00	-87.46	135.87	-3,068.10	3,071.67	3,067.56	4.11	747.514			
1,100.00	1,100.00	1,084.38	1,050.25	2.33	2.29	-87.47	135.87	-3,070.10	3,073.51	3,068.89	4.81	666.061			
1,200.00	1,200.00	1,181.56	1,147.43	2.56	2.54	-87.47	135.70	-3,071.69	3,075.13	3,070.04	5.09	604.225			
1,300.00	1,300.00	1,254.24	1,220.09	2.78	2.72	-87.49	134.94	-3,073.22	3,077.22	3,071.72	5.50	559.385			
1,400.00	1,400.00	1,340.81	1,306.59	3.01	2.94	-87.52	133.19	-3,075.94	3,080.24	3,074.30	5.95	518.118			
1,500.00	1,500.00	1,460.68	1,426.36	3.23	3.24	-87.59	129.75	-3,079.29	3,082.90	3,076.43	6.46	476.933			
1,600.00	1,600.00	1,574.98	1,540.58	3.45	3.51	-87.65	126.39	-3,081.90	3,085.06	3,078.10	6.96	442.984			
1,700.00	1,700.00	1,667.60	1,633.15	3.68	3.74	-87.70	123.73	-3,083.82	3,087.03	3,079.61	7.41	416.329			
1,800.00	1,800.00	1,772.16	1,737.64	3.90	4.00	-87.76	120.78	-3,086.24	3,089.23	3,081.33	7.90	391.099			
1,900.00	1,900.00	1,869.83	1,835.26	4.13	4.25	-87.81	118.08	-3,088.28	3,091.22	3,082.85	8.37	369.431			
2,000.00	2,000.00	1,962.05	1,927.41	4.35	4.48	-87.86	115.32	-3,090.44	3,093.44	3,084.61	8.82	350.547			
2,100.00	2,100.00	2,047.39	2,012.67	4.58	4.70	-87.91	112.63	-3,092.69	3,095.98	3,086.71	9.27	334.063			
2,200.00	2,200.00	2,137.18	2,102.37	4.80	4.93	-87.97	109.93	-3,095.57	3,099.06	3,089.33	9.73	318.653			
2,300.00	2,300.00	2,255.72	2,220.82	5.03	5.24	-88.03	106.57	-3,099.17	3,102.02	3,091.76	10.26	302.370			
2,400.00	2,400.00	2,363.70	2,328.71	5.25	5.52	-88.09	103.38	-3,101.76	3,104.30	3,093.54	10.76	288.451			
2,500.00	2,500.00	2,469.42	2,434.36	5.48	5.79	-88.15	100.22	-3,104.26	3,106.57	3,095.31	11.26	275.929			
2,600.00	2,600.00	2,571.68	2,536.56	5.70	6.06	-88.21	97.35	-3,106.43	3,108.60	3,096.86	11.75	264.637			
2,700.00	2,700.00	2,670.87	2,635.68	5.93	6.31	-88.26	94.64	-3,108.56	3,110.66	3,098.43	12.23	254.388			
2,800.00	2,800.00	2,777.73	2,742.49	6.15	6.59	-88.31	91.90	-3,110.76	3,112.65	3,099.93	12.73	244.577			
2,900.00	2,900.00	2,879.98	2,844.70	6.38	6.72	-88.34	90.09	-3,112.67	3,114.46	3,101.38	13.09	238.002			
3,000.00	3,000.00	2,979.40	2,944.11	6.60	6.78	-88.35	89.47	-3,114.44	3,116.23	3,102.88	13.37	233.058			
3,100.00	3,100.00	3,054.52	3,019.21	6.83	6.79	-88.36	89.37	-3,115.96	3,118.29	3,104.88	13.61	229.198			
3,200.00	3,200.00	3,110.00	3,074.66	7.05	6.80	-88.35	89.78	-3,117.69	3,121.50	3,107.66	13.84	225.562			
3,300.00	3,300.00	3,166.69	3,131.28	7.28	6.82	-88.33	90.89	-3,120.24	3,126.12	3,112.04	14.08	222.074			
3,400.00	3,400.00	3,225.39	3,189.83	7.50	6.83	-88.30	92.98	-3,123.81	3,132.26	3,117.94	14.32	218.777			
3,500.00	3,500.00	3,306.84	3,271.01	7.73	6.86	-88.23	96.60	-3,129.43	3,139.28	3,124.71	14.57	215.492			
3,600.00	3,600.00	3,406.01	3,369.81	7.95	6.89	-88.15	101.30	-3,136.52	3,146.59	3,131.76	14.83	212.192			
3,700.00	3,700.00	3,505.33	3,468.77	8.17	6.94	-88.07	105.98	-3,143.64	3,153.91	3,138.82	15.10	208.930			
3,800.00	3,800.00	3,605.43	3,568.50	8.40	6.99	-87.99	110.70	-3,150.81	3,161.24	3,145.87	15.37	205.665			
3,900.00	3,900.00	3,704.70	3,667.40	8.62	7.06	-87.91	115.41	-3,157.90	3,168.56	3,152.91	15.65	202.410			
4,000.00	4,000.00	3,802.55	3,764.88	8.85	7.13	-87.83	120.19	-3,164.95	3,175.94	3,160.00	15.95	199.177			
4,100.00	4,100.00	3,903.65	3,865.59	9.07	7.22	-87.74	125.16	-3,172.23	3,183.34	3,167.10	16.24	195.959			
4,200.00	4,200.00	4,036.70	3,998.17	9.30	7.34	-87.63	131.76	-3,181.32	3,190.44	3,173.87	16.57	192.516			
4,300.00	4,300.00	4,129.57	4,090.77	9.52	7.43	-87.56	136.08	-3,186.98	3,196.74	3,179.86	16.87	189.449			
4,400.00	4,400.00	4,223.10	4,184.05	9.75	7.53	-87.51	138.87	-3,193.12	3,203.42	3,186.24	17.18	186.476			
4,500.00	4,500.00	4,395.80	4,358.40	9.97	7.71	-87.41	144.78	-3,202.25	3,208.74	3,191.17	17.57	182.688			
4,600.00	4,600.00	4,499.12	4,459.54	10.20	7.83	-87.34	148.86	-3,206.62	3,213.15	3,195.25	17.90	179.543			
4,700.00	4,700.00	4,600.97	4,561.23	10.42	7.95	-87.28	152.80	-3,210.86	3,217.49	3,199.26	18.23	176.497			
4,800.00	4,800.00	4,702.61	4,662.71	10.65	8.07	-87.21	156.71	-3,215.03	3,221.78	3,203.21	18.57	173.513			
4,900.00	4,900.00	4,807.65	4,767.60	10.87	8.20	-87.14	160.61	-3,219.25	3,225.97	3,207.06	18.91	170.567			
5,000.00	5,000.00	4,907.66	4,867.66	11.10	8.33	-87.08	164.30	-3,223.17	3,230.06	3,210.81	19.26	167.716			

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 9H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3152' + KB 26' @ 3178.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3152' + KB 26' @ 3178.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	9H	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 Draft 1	Offset.TVD Reference:	Reference Datum

Offset Design Lone Tree Draw "13" State - 7H - OH - OH												Offset Site Error:	0.00 usft
Survey Program: 100-NS-GYRO-MS, 2922-LEAM MWD-ADJ, 12456-Project												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance					Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,100.00	5,100.00	5,006.43	4,966.09	11.32	8.47	-87.02	167.90	-3,227.05	3,234.19	3,214.58	19.61	164.957	
5,200.00	5,200.00	5,098.00	5,057.53	11.55	8.59	-86.97	171.14	-3,230.55	3,238.22	3,218.27	19.95	162.343	
5,300.00	5,300.00	5,172.53	5,131.94	11.77	8.70	-86.92	174.08	-3,233.77	3,242.81	3,222.54	20.27	159.973	
5,400.00	5,400.00	5,254.20	5,213.40	12.00	8.82	-86.86	177.89	-3,238.12	3,248.36	3,227.75	20.61	157.616	
5,500.00	5,500.00	5,355.84	5,314.77	12.22	8.98	-86.78	182.68	-3,243.73	3,254.15	3,233.17	20.98	155.121	
5,600.00	5,600.00	5,458.76	5,415.44	12.45	9.14	-86.70	187.20	-3,249.18	3,259.80	3,238.45	21.35	152.704	
5,700.00	5,700.00	5,574.21	5,532.64	12.67	9.33	-86.63	191.92	-3,255.30	3,265.24	3,243.50	21.74	150.179	
5,800.00	5,800.00	5,676.51	5,634.74	12.89	9.50	-86.56	195.74	-3,260.28	3,270.33	3,248.21	22.12	147.851	
5,900.00	5,900.00	5,780.94	5,738.99	13.12	9.67	-86.50	199.53	-3,265.30	3,275.35	3,252.85	22.50	145.561	
6,000.00	6,000.00	5,878.62	5,837.51	13.34	9.84	-86.45	202.74	-3,269.79	3,280.10	3,257.22	22.88	143.381	
6,100.00	6,100.00	5,949.00	5,906.76	13.57	9.95	-86.42	205.02	-3,273.47	3,285.57	3,262.36	23.21	141.566	
6,200.00	6,200.00	6,003.62	5,961.23	13.79	10.05	-86.39	206.91	-3,276.99	3,292.18	3,268.66	23.52	139.969	
6,300.00	6,300.00	6,071.71	6,029.07	14.02	10.18	-86.35	209.36	-3,282.22	3,300.03	3,276.17	23.86	138.337	
6,400.00	6,400.00	6,198.27	6,155.16	14.24	10.42	-86.29	213.66	-3,292.19	3,308.19	3,283.90	24.29	136.214	
6,500.00	6,500.00	6,309.61	6,266.16	14.47	10.63	-86.22	218.19	-3,299.73	3,315.19	3,290.49	24.70	134.238	
6,600.00	6,600.00	6,404.94	6,361.19	14.69	10.82	-86.16	221.85	-3,306.29	3,322.32	3,297.23	25.08	132.457	
6,700.00	6,700.00	6,582.53	6,538.26	14.92	11.16	-86.02	230.89	-3,316.40	3,328.36	3,302.74	25.62	129.933	
6,800.00	6,800.00	6,701.14	6,656.64	15.14	11.38	-85.93	238.24	-3,321.36	3,332.84	3,306.79	26.05	127.953	
6,900.00	6,900.00	6,803.76	6,759.09	15.37	11.57	-85.86	240.49	-3,325.44	3,337.11	3,310.65	26.45	126.158	
7,000.00	7,000.00	6,915.78	6,870.94	15.59	11.78	-85.79	244.95	-3,329.64	3,341.13	3,314.26	26.87	124.326	
7,100.00	7,100.00	7,036.23	6,991.25	15.82	12.00	-85.73	249.00	-3,333.76	3,344.82	3,317.51	27.31	122.473	
7,200.00	7,200.00	7,427.47	7,376.76	16.04	12.53	-86.31	215.02	-3,334.86	3,346.45	3,318.38	28.07	119.226	
7,221.58	7,221.58	7,444.00	7,391.68	16.09	12.54	-86.43	207.92	-3,334.57	3,345.37	3,317.25	28.12	118.953	
7,250.00	7,249.99	7,450.55	7,397.53	16.15	12.54	90.73	204.98	-3,334.49	3,344.04	3,315.89	28.16	118.767	
7,300.00	7,299.76	7,480.94	7,424.32	16.23	12.55	90.73	190.65	-3,334.27	3,342.07	3,313.82	28.25	118.294	
7,350.00	7,348.93	7,524.07	7,461.35	16.32	12.57	90.64	168.55	-3,334.20	3,340.37	3,312.01	28.36	117.784	
7,400.00	7,397.13	7,567.33	7,496.78	16.40	12.60	90.54	143.71	-3,334.39	3,338.87	3,310.39	28.48	117.245	
7,450.00	7,444.00	7,614.69	7,533.01	16.49	12.64	90.41	113.27	-3,334.80	3,337.45	3,308.83	28.62	116.617	
7,500.00	7,489.17	7,676.18	7,574.93	16.57	12.72	90.15	68.36	-3,335.82	3,336.26	3,307.44	28.82	115.769	
7,550.00	7,532.31	7,747.35	7,617.84	16.66	12.86	89.83	11.62	-3,336.67	3,334.69	3,305.58	29.12	114.532	
7,600.00	7,573.08	7,774.79	7,632.68	16.77	12.94	89.80	-11.45	-3,337.06	3,333.23	3,303.90	29.33	113.843	
7,650.00	7,611.18	7,791.00	7,640.87	16.91	13.00	89.81	-25.44	-3,337.41	3,332.18	3,302.65	29.53	112.843	
7,700.00	7,646.31	7,810.42	7,650.29	17.07	13.07	89.77	-42.41	-3,338.01	3,331.51	3,301.83	29.77	111.894	
7,733.59	7,668.11	7,823.00	7,656.26	17.20	13.12	89.74	-53.47	-3,338.54	3,331.52	3,301.56	29.96	111.211	
7,750.00	7,678.21	7,823.00	7,656.26	17.26	13.12	89.73	-53.47	-3,338.54	3,331.56	3,301.54	30.02	110.982	
7,800.00	7,706.64	7,840.10	7,664.21	17.48	13.19	89.65	-68.59	-3,339.45	3,332.02	3,301.69	30.32	109.879	
7,850.00	7,731.37	7,854.00	7,670.53	17.74	13.26	89.54	-80.94	-3,340.33	3,332.98	3,302.33	30.65	108.745	
7,900.00	7,752.22	8,143.86	7,717.20	18.03	15.55	86.30	-362.55	-3,349.43	3,331.44	3,298.17	33.27	100.143	
7,950.00	7,769.04	8,273.64	7,715.77	18.36	16.85	87.81	-492.29	-3,347.93	3,328.96	3,294.05	34.92	95.343	
8,000.00	7,781.69	8,313.49	7,716.30	18.73	17.26	87.99	-532.13	-3,346.92	3,325.50	3,289.78	35.72	93.100	
8,050.00	7,790.07	8,360.00	7,716.90	19.13	17.75	88.21	-578.62	-3,345.88	3,322.05	3,285.42	36.63	90.695	
8,100.00	7,794.13	8,398.43	7,717.44	19.56	18.19	88.52	-617.03	-3,345.10	3,318.56	3,281.04	37.52	88.451	
8,119.95	7,784.54	8,416.40	7,717.72	19.74	18.40	88.66	-635.00	-3,344.75	3,317.16	3,279.25	37.91	87.497	
8,200.00	7,794.76	8,480.91	7,718.85	20.51	19.16	88.67	-699.49	-3,343.63	3,311.68	3,272.22	39.46	83.932	
8,300.00	7,795.05	8,554.12	7,720.43	21.58	20.05	88.69	-772.68	-3,342.92	3,305.56	3,264.13	41.43	79.779	
8,400.00	7,785.33	8,702.89	7,720.32	22.73	22.07	88.68	-921.43	-3,340.67	3,298.92	3,254.27	44.65	73.887	
8,500.00	7,795.62	8,777.18	7,720.35	23.97	23.10	88.68	-995.70	-3,338.13	3,291.84	3,244.91	46.93	70.143	
8,600.00	7,795.90	8,833.00	7,720.30	25.28	23.88	88.67	-1,051.51	-3,338.76	3,286.07	3,237.04	49.03	67.020	
8,700.00	7,796.19	8,885.19	7,720.20	26.65	24.66	88.67	-1,103.70	-3,339.14	3,281.69	3,230.50	51.19	64.112	
8,800.00	7,796.47	8,949.04	7,720.17	28.07	25.61	88.66	-1,167.53	-3,340.51	3,278.68	3,225.11	53.56	61.212	

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 9H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3152' + KB 26' @ 3178.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3152' + KB 26' @ 3178.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	9H	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 Draft 1	Offset TVD Reference:	Reference Datum

Offset Design Lone Tree Draw "13" State - 7H - OH - OH														Offset Site Error: 0.00 usft
Survey Program: 100-NS-GYRO-MS, 2922-LEAM MWD-ADJ, 12456-Project														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)				
8,900.00	7,796.75	9,045.04	7,720.96	29.54	27.02	88.67	-1,263.51	-3,342.93	3,276.10	3,219.66	56.45	58.038		
9,000.00	7,797.04	9,386.55	7,721.67	31.04	32.24	88.66	-1,804.83	-3,341.69	3,272.31	3,209.10	63.21	51.770		
9,100.00	7,797.32	9,493.33	7,713.89	32.57	33.98	88.51	-1,711.18	-3,336.21	3,262.27	3,195.77	66.50	49.060		
9,200.00	7,797.61	9,590.00	7,709.31	34.13	35.54	88.42	-1,807.59	-3,331.23	3,252.16	3,182.54	69.62	46.713		
9,300.00	7,797.89	9,651.96	7,708.27	35.72	36.54	88.40	-1,869.48	-3,328.46	3,242.72	3,170.51	72.21	44.908		
9,400.00	7,798.18	9,718.19	7,707.23	37.32	37.61	88.37	-1,935.67	-3,326.39	3,234.52	3,159.63	74.89	43.190		
9,500.00	7,798.46	9,797.87	7,708.68	38.95	38.90	88.39	-2,015.31	-3,324.56	3,227.09	3,149.27	77.81	41.472		
9,600.00	7,798.75	9,882.12	7,712.19	40.59	40.26	88.45	-2,099.47	-3,323.13	3,220.19	3,139.37	80.82	39.843		
9,700.00	7,799.03	9,972.60	7,715.36	42.25	41.76	88.49	-2,189.89	-3,321.95	3,213.71	3,129.74	83.98	38.270		
9,800.00	7,799.32	10,108.85	7,716.59	43.91	44.03	88.51	-2,326.10	-3,319.42	3,206.74	3,118.82	87.92	36.473		
9,900.00	7,799.60	10,212.94	7,718.27	45.59	45.75	88.53	-2,430.14	-3,316.73	3,199.03	3,107.70	91.32	35.029		
10,000.00	7,799.88	10,306.57	7,719.02	47.28	47.32	88.53	-2,523.74	-3,314.46	3,191.51	3,096.91	94.59	33.740		
10,041.96	7,800.00	10,347.10	7,718.31	48.00	48.01	88.52	-2,564.25	-3,313.50	3,188.39	3,092.40	95.99	33.214		
10,100.00	7,800.06	10,405.45	7,717.04	48.94	48.99	88.50	-2,622.57	-3,312.10	3,183.51	3,085.60	97.91	32.513		
10,152.80	7,799.92	10,472.21	7,716.08	49.77	50.09	88.51	-2,689.31	-3,310.44	3,178.02	3,078.21	99.81	31.840		
10,200.00	7,799.71	10,534.00	7,715.81	50.54	51.11	88.50	-2,751.06	-3,308.45	3,172.28	3,070.69	101.59	31.225		
10,300.00	7,799.27	10,585.94	7,715.67	52.24	51.98	88.50	-2,802.98	-3,307.04	3,160.80	3,058.63	104.17	30.344		
10,400.00	7,798.83	10,637.52	7,715.20	53.96	52.84	88.50	-2,854.56	-3,306.58	3,150.98	3,044.24	106.74	29.520		
10,500.00	7,798.40	10,722.00	7,714.51	55.68	54.26	88.49	-2,939.03	-3,306.23	3,141.75	3,031.88	109.87	28.595		
10,600.00	7,797.96	10,780.02	7,713.63	57.40	55.23	88.47	-2,997.04	-3,306.50	3,133.53	3,020.96	112.57	27.837		
10,700.00	7,797.52	10,837.61	7,711.69	59.13	56.20	88.44	-3,054.58	-3,307.88	3,127.00	3,011.74	115.27	27.129		
10,800.00	7,797.08	10,932.94	7,707.91	60.86	57.83	88.37	-3,149.80	-3,310.57	3,121.04	3,002.42	118.62	26.311		
10,900.00	7,796.64	11,027.81	7,704.28	62.60	59.43	88.31	-3,244.55	-3,313.61	3,115.44	2,993.48	121.96	25.545		
11,000.00	7,796.20	11,166.73	7,704.24	64.34	61.75	88.32	-3,383.42	-3,316.94	3,108.86	2,982.85	126.01	24.671		
11,100.00	7,795.77	11,261.50	7,704.58	66.09	63.34	88.33	-3,478.17	-3,318.82	3,101.94	2,972.59	129.35	23.981		
11,200.00	7,795.33	11,387.96	7,704.10	67.84	65.48	88.33	-3,604.61	-3,321.14	3,094.93	2,961.70	133.23	23.230		
11,300.00	7,794.89	11,477.75	7,704.15	69.59	67.00	88.33	-3,694.38	-3,322.42	3,087.44	2,950.95	136.50	22.619		
11,400.00	7,794.45	11,572.24	7,705.70	71.35	68.60	88.36	-3,788.84	-3,324.05	3,080.22	2,940.37	139.85	22.025		
11,500.00	7,794.01	11,635.00	7,708.58	73.11	69.66	88.42	-3,851.52	-3,325.41	3,073.48	2,930.81	142.67	21.542		
11,600.00	7,793.57	11,721.42	7,712.31	74.87	71.15	88.49	-3,937.82	-3,328.01	3,067.51	2,921.59	145.92	21.022		
11,700.00	7,793.14	12,105.80	7,729.46	76.63	77.69	88.77	-4,321.59	-3,323.63	3,057.42	2,903.20	154.22	19.825		
11,800.00	7,792.70	12,182.24	7,724.96	78.40	79.03	88.75	-4,397.89	-3,319.30	3,042.96	2,885.65	157.31	19.344		
11,900.00	7,792.26	12,242.00	7,723.19	80.16	80.07	88.72	-4,457.55	-3,316.47	3,029.50	2,869.39	160.12	18.921		
12,000.00	7,791.82	12,310.00	7,720.61	81.93	81.28	88.67	-4,525.46	-3,314.04	3,017.19	2,854.12	163.07	18.502		
12,100.00	7,791.38	12,366.55	7,717.94	83.71	82.26	88.62	-4,581.93	-3,312.75	3,006.16	2,840.34	165.83	18.128		
12,187.37	7,791.00	12,424.21	7,714.71	85.25	82.83	88.56	-4,639.50	-3,312.27	2,997.73	2,829.79	167.94	17.850	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 9H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3152' + KB 26' @ 3178.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3152' + KB 26' @ 3178.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	9H	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 Draft 1	Offset TVD Reference:	Reference Datum

Offset Design												Offset Site Error:	
Lone Tree Draw "13" State - 8H - OH - Plan #1												0.00 usft	
Survey Program: 0-LEAM.MWD-ADJ												Offset Well Error:	
Reference												0.00 usft	
		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	20.00	0.00	0.00	0.02	-84.83	149.45	-1,650.18	1,656.93				
100.00	100.00	120.00	100.00	0.08	0.13	-84.83	149.45	-1,650.18	1,656.93	1,656.72	0.21	7,842.349	
200.00	200.00	220.00	200.00	0.31	0.35	-84.83	149.45	-1,650.18	1,656.93	1,656.27	0.66	2,507.419	
300.00	300.00	320.00	300.00	0.53	0.58	-84.83	149.45	-1,650.18	1,656.93	1,655.82	1.11	1,492.270	
400.00	400.00	420.00	400.00	0.76	0.80	-84.83	149.45	-1,650.18	1,656.93	1,655.37	1.56	1,062.221	
500.00	500.00	520.00	500.00	0.98	1.03	-84.83	149.45	-1,650.18	1,656.93	1,654.92	2.01	824.588	
600.00	600.00	620.00	600.00	1.21	1.25	-84.83	149.45	-1,650.18	1,656.93	1,654.47	2.46	673.840	
700.00	700.00	720.00	700.00	1.43	1.48	-84.83	149.45	-1,650.18	1,656.93	1,654.03	2.91	569.692	
800.00	800.00	820.00	800.00	1.66	1.70	-84.83	149.45	-1,650.18	1,656.93	1,653.58	3.36	493.428	
900.00	900.00	920.00	900.00	1.88	1.93	-84.83	149.45	-1,650.18	1,656.93	1,653.13	3.81	435.172	
1,000.00	1,000.00	1,020.00	1,000.00	2.11	2.15	-84.83	149.45	-1,650.18	1,656.93	1,652.68	4.26	389.219	
1,100.00	1,100.00	1,120.00	1,100.00	2.33	2.38	-84.83	149.45	-1,650.18	1,656.93	1,652.23	4.71	352.045	
1,200.00	1,200.00	1,220.00	1,200.00	2.56	2.60	-84.83	149.45	-1,650.18	1,656.93	1,651.78	5.16	321.352	
1,300.00	1,300.00	1,320.00	1,300.00	2.78	2.83	-84.83	149.45	-1,650.18	1,656.93	1,651.33	5.61	295.582	
1,400.00	1,400.00	1,420.00	1,400.00	3.01	3.05	-84.83	149.45	-1,650.18	1,656.93	1,650.88	6.06	273.638	
1,500.00	1,500.00	1,520.00	1,500.00	3.23	3.27	-84.83	149.45	-1,650.18	1,656.93	1,650.43	6.50	254.728	
1,600.00	1,600.00	1,620.00	1,600.00	3.45	3.50	-84.83	149.45	-1,650.18	1,656.93	1,649.98	6.95	238.262	
1,700.00	1,700.00	1,720.00	1,700.00	3.68	3.72	-84.83	149.45	-1,650.18	1,656.93	1,649.53	7.40	223.795	
1,800.00	1,800.00	1,820.00	1,800.00	3.90	3.95	-84.83	149.45	-1,650.18	1,656.93	1,649.08	7.85	210.985	
1,900.00	1,900.00	1,920.00	1,900.00	4.13	4.17	-84.83	149.45	-1,650.18	1,656.93	1,648.63	8.30	199.562	
2,000.00	2,000.00	2,020.00	2,000.00	4.35	4.40	-84.83	149.45	-1,650.18	1,656.93	1,648.18	8.75	189.312	
2,100.00	2,100.00	2,120.00	2,100.00	4.58	4.62	-84.83	149.45	-1,650.18	1,656.93	1,647.73	9.20	180.064	
2,200.00	2,200.00	2,220.00	2,200.00	4.80	4.85	-84.83	149.45	-1,650.18	1,656.93	1,647.28	9.65	171.677	
2,300.00	2,300.00	2,320.00	2,300.00	5.03	5.07	-84.83	149.45	-1,650.18	1,656.93	1,646.83	10.10	164.037	
2,400.00	2,400.00	2,420.00	2,400.00	5.25	5.30	-84.83	149.45	-1,650.18	1,656.93	1,646.38	10.55	157.048	
2,500.00	2,500.00	2,520.00	2,500.00	5.48	5.52	-84.83	149.45	-1,650.18	1,656.93	1,645.93	11.00	150.630	
2,600.00	2,600.00	2,620.00	2,600.00	5.70	5.75	-84.83	149.45	-1,650.18	1,656.93	1,645.48	11.45	144.716	
2,700.00	2,700.00	2,720.00	2,700.00	5.93	5.97	-84.83	149.45	-1,650.18	1,656.93	1,645.03	11.90	139.248	
2,800.00	2,800.00	2,820.00	2,800.00	6.15	6.20	-84.83	149.45	-1,650.18	1,656.93	1,644.58	12.35	134.179	
2,900.00	2,900.00	2,920.00	2,900.00	6.38	6.42	-84.83	149.45	-1,650.18	1,656.93	1,644.14	12.80	129.466	
3,000.00	3,000.00	3,020.00	3,000.00	6.60	6.65	-84.83	149.45	-1,650.18	1,656.93	1,643.69	13.25	125.073	
3,100.00	3,100.00	3,120.00	3,100.00	6.83	6.87	-84.83	149.45	-1,650.18	1,656.93	1,643.24	13.70	120.968	
3,200.00	3,200.00	3,220.00	3,200.00	7.05	7.10	-84.83	149.45	-1,650.18	1,656.93	1,642.79	14.15	117.124	
3,300.00	3,300.00	3,320.00	3,300.00	7.28	7.32	-84.83	149.45	-1,650.18	1,656.93	1,642.34	14.60	113.517	
3,400.00	3,400.00	3,420.00	3,400.00	7.50	7.55	-84.83	149.45	-1,650.18	1,656.93	1,641.89	15.05	110.126	
3,500.00	3,500.00	3,520.00	3,500.00	7.73	7.77	-84.83	149.45	-1,650.18	1,656.93	1,641.44	15.50	106.931	
3,600.00	3,600.00	3,620.00	3,600.00	7.95	7.99	-84.83	149.45	-1,650.18	1,656.93	1,640.99	15.94	103.916	
3,700.00	3,700.00	3,720.00	3,700.00	8.17	8.22	-84.83	149.45	-1,650.18	1,656.93	1,640.54	16.39	101.067	
3,800.00	3,800.00	3,820.00	3,800.00	8.40	8.44	-84.83	149.45	-1,650.18	1,656.93	1,640.09	16.84	98.370	
3,900.00	3,900.00	3,920.00	3,900.00	8.62	8.67	-84.83	149.45	-1,650.18	1,656.93	1,639.64	17.29	95.813	
4,000.00	4,000.00	4,020.00	4,000.00	8.85	8.89	-84.83	149.45	-1,650.18	1,656.93	1,639.19	17.74	93.385	
4,100.00	4,100.00	4,120.00	4,100.00	9.07	9.12	-84.83	149.45	-1,650.18	1,656.93	1,638.74	18.19	91.078	
4,200.00	4,200.00	4,220.00	4,200.00	9.30	9.34	-84.83	149.45	-1,650.18	1,656.93	1,638.29	18.64	88.881	
4,300.00	4,300.00	4,320.00	4,300.00	9.52	9.57	-84.83	149.45	-1,650.18	1,656.93	1,637.84	19.09	86.789	
4,400.00	4,400.00	4,420.00	4,400.00	9.75	9.79	-84.83	149.45	-1,650.18	1,656.93	1,637.39	19.54	84.792	
4,500.00	4,500.00	4,520.00	4,500.00	9.97	10.02	-84.83	149.45	-1,650.18	1,656.93	1,636.94	19.99	82.885	
4,600.00	4,600.00	4,620.00	4,600.00	10.20	10.24	-84.83	149.45	-1,650.18	1,656.93	1,636.49	20.44	81.062	
4,700.00	4,700.00	4,720.00	4,700.00	10.42	10.47	-84.83	149.45	-1,650.18	1,656.93	1,636.04	20.89	79.318	
4,800.00	4,800.00	4,820.00	4,800.00	10.65	10.69	-84.83	149.45	-1,650.18	1,656.93	1,635.59	21.34	77.647	
4,900.00	4,900.00	4,920.00	4,900.00	10.87	10.92	-84.83	149.45	-1,650.18	1,656.93	1,635.14	21.79	76.045	
5,000.00	5,000.00	5,020.00	5,000.00	11.10	11.14	-84.83	149.45	-1,650.18	1,656.93	1,634.70	22.24	74.508	

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 9H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3152' + KB 26' @ 3178.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3152' + KB 26' @ 3178.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	9H	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 Draft 1	Offset TVD Reference:	Reference Datum

Offset Design Lone Tree Draw "13" State - 8H - 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 Tooface (")	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	5,120.00	5,100.00	11.32	11.37	-84.83	149.45	-1,650.18	1,656.93	1,634.25	22.69	73.032		
5,200.00	5,200.00	5,220.00	5,200.00	11.55	11.59	-84.83	149.45	-1,650.18	1,656.93	1,633.80	23.14	71.613		
5,300.00	5,300.00	5,320.00	5,300.00	11.77	11.82	-84.83	149.45	-1,650.18	1,656.93	1,633.35	23.59	70.248		
5,400.00	5,400.00	5,420.00	5,400.00	12.00	12.04	-84.83	149.45	-1,650.18	1,656.93	1,632.90	24.04	68.934		
5,500.00	5,500.00	5,520.00	5,500.00	12.22	12.27	-84.83	149.45	-1,650.18	1,656.93	1,632.45	24.49	67.669		
5,600.00	5,600.00	5,620.00	5,600.00	12.45	12.49	-84.83	149.45	-1,650.18	1,656.93	1,632.00	24.94	66.449		
5,700.00	5,700.00	5,720.00	5,700.00	12.67	12.72	-84.83	149.45	-1,650.18	1,656.93	1,631.55	25.39	65.272		
5,800.00	5,800.00	5,820.00	5,800.00	12.89	12.94	-84.83	149.45	-1,650.18	1,656.93	1,631.10	25.83	64.136		
5,900.00	5,900.00	5,920.00	5,900.00	13.12	13.16	-84.83	149.45	-1,650.18	1,656.93	1,630.65	26.28	63.039		
6,000.00	6,000.00	6,020.00	6,000.00	13.34	13.39	-84.83	149.45	-1,650.18	1,656.93	1,630.20	26.73	61.979		
6,100.00	6,100.00	6,120.00	6,100.00	13.57	13.61	-84.83	149.45	-1,650.18	1,656.93	1,629.75	27.18	60.954		
6,200.00	6,200.00	6,220.00	6,200.00	13.79	13.84	-84.83	149.45	-1,650.18	1,656.93	1,629.30	27.63	59.953		
6,300.00	6,300.00	6,320.00	6,300.00	14.02	14.06	-84.83	149.45	-1,650.18	1,656.93	1,628.85	28.08	59.003		
6,400.00	6,400.00	6,420.00	6,400.00	14.24	14.29	-84.83	149.45	-1,650.18	1,656.93	1,628.40	28.53	58.073		
6,500.00	6,500.00	6,520.00	6,500.00	14.47	14.51	-84.83	149.45	-1,650.18	1,656.93	1,627.95	28.98	57.172		
6,600.00	6,600.00	6,620.00	6,600.00	14.69	14.74	-84.83	149.45	-1,650.18	1,656.93	1,627.50	29.43	56.299		
6,700.00	6,700.00	6,720.00	6,700.00	14.92	14.96	-84.83	149.45	-1,650.18	1,656.93	1,627.05	29.88	55.452		
6,800.00	6,800.00	6,820.00	6,800.00	15.14	15.19	-84.83	149.45	-1,650.18	1,656.93	1,626.60	30.33	54.630		
6,900.00	6,900.00	6,920.00	6,900.00	15.37	15.41	-84.83	149.45	-1,650.18	1,656.93	1,626.15	30.78	53.832		
7,000.00	7,000.00	7,020.00	7,000.00	15.59	15.64	-84.83	149.45	-1,650.18	1,656.93	1,625.70	31.23	53.058		
7,100.00	7,100.00	7,120.00	7,100.00	15.82	15.86	-84.83	149.45	-1,650.18	1,656.93	1,625.25	31.68	52.305		
7,200.00	7,200.00	7,220.55	7,200.55	16.04	16.09	-84.83	149.45	-1,650.18	1,656.93	1,624.80	32.13	51.572		
7,221.58	7,221.58	7,251.78	7,231.76	16.09	16.14	-84.86	148.36	-1,650.18	1,656.86	1,624.63	32.23	51.408		
7,250.00	7,249.89	7,292.61	7,272.34	16.15	16.21	92.13	143.99	-1,650.16	1,656.81	1,624.26	32.35	51.208		
7,300.00	7,299.76	7,363.27	7,341.25	16.23	16.33	91.90	128.65	-1,650.12	1,655.80	1,623.25	32.54	50.881		
7,350.00	7,348.93	7,431.86	7,405.42	16.32	16.45	91.61	104.58	-1,650.04	1,654.58	1,621.82	32.73	50.547		
7,400.00	7,397.13	7,497.91	7,463.53	16.40	16.56	91.26	73.29	-1,649.95	1,652.96	1,620.02	32.93	50.181		
7,450.00	7,444.00	7,561.13	7,514.82	16.49	16.69	90.87	36.39	-1,648.83	1,651.07	1,617.91	33.16	49.788		
7,500.00	7,489.17	7,621.40	7,558.99	16.57	16.85	90.45	-4.57	-1,648.71	1,648.96	1,615.55	33.41	49.358		
7,550.00	7,532.31	7,678.75	7,596.14	16.66	17.04	90.02	-48.22	-1,648.57	1,646.72	1,613.01	33.70	48.863		
7,600.00	7,573.08	7,733.29	7,626.80	16.77	17.27	89.58	-93.43	-1,648.44	1,644.39	1,610.35	34.04	48.308		
7,650.00	7,611.18	7,785.20	7,650.83	16.91	17.52	89.14	-139.30	-1,648.30	1,642.04	1,607.61	34.43	47.696		
7,700.00	7,646.31	7,834.68	7,689.37	17.07	17.80	88.71	-185.16	-1,648.15	1,639.72	1,604.86	34.86	47.031		
7,750.00	7,678.21	7,881.97	7,682.76	17.26	18.10	88.28	-230.49	-1,648.02	1,637.47	1,602.12	35.35	46.318		
7,800.00	7,706.64	7,927.27	7,691.50	17.48	18.42	87.86	-274.93	-1,648.88	1,635.31	1,599.42	35.89	45.565		
7,850.00	7,731.37	7,970.80	7,696.07	17.74	18.76	87.45	-318.20	-1,648.75	1,633.28	1,596.81	36.47	44.779		
7,900.00	7,752.22	8,013.94	7,696.99	18.03	19.12	87.03	-361.33	-1,648.62	1,631.38	1,594.26	37.12	43.949		
7,950.00	7,769.04	8,060.93	7,696.84	18.36	19.54	86.66	-408.31	-1,648.47	1,629.50	1,591.64	37.86	43.038		
8,000.00	7,781.69	8,109.20	7,696.88	18.73	19.99	86.43	-456.58	-1,648.32	1,627.50	1,588.84	38.66	42.094		
8,050.00	7,790.07	8,158.39	7,696.82	19.13	20.49	86.35	-505.77	-1,648.17	1,625.31	1,585.75	39.56	41.085		
8,100.00	7,794.13	8,208.13	7,696.76	19.56	21.01	86.44	-555.52	-1,648.02	1,622.86	1,582.36	40.51	40.065		
8,119.95	7,794.54	8,228.05	7,696.74	19.74	21.23	86.53	-575.43	-1,647.96	1,621.81	1,580.90	40.91	39.642		
8,200.00	7,794.76	8,307.98	7,696.65	20.51	22.14	86.51	-655.36	-1,647.71	1,617.52	1,574.93	42.58	37.985		
8,300.00	7,795.05	8,407.84	7,696.53	21.58	23.36	86.48	-755.22	-1,647.41	1,612.15	1,567.30	44.86	35.939		
8,400.00	7,795.33	8,507.69	7,696.42	22.73	24.66	86.46	-855.07	-1,647.10	1,606.79	1,559.48	47.30	33.968		
8,500.00	7,795.62	8,607.54	7,696.30	23.97	26.02	86.43	-954.92	-1,646.80	1,601.42	1,551.53	49.89	32.097		
8,600.00	7,795.90	8,707.40	7,696.18	25.28	27.43	86.40	-1,054.77	-1,646.49	1,596.06	1,543.45	52.61	30.338		
8,700.00	7,796.19	8,807.25	7,696.07	26.65	28.89	86.38	-1,154.63	-1,646.19	1,590.69	1,535.26	55.43	28.698		
8,800.00	7,796.47	8,907.10	7,695.95	28.07	30.39	86.35	-1,254.48	-1,645.88	1,585.33	1,526.99	58.34	27.173		
8,900.00	7,796.75	9,006.96	7,695.83	29.54	31.93	86.32	-1,354.33	-1,645.57	1,579.97	1,518.64	61.33	25.762		

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 9H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3152' + KB 26' @ 3178.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3152' + KB 26' @ 3178.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	9H	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 Draft 1	Offset TVD Reference:	Reference Datum

Offset Design Lone Tree Draw "13" State - 8H - OH - Plan #1													Offset Site Error:	0.00 usft		
Survey Program: 0-LEAM MWD-ADJ													Offset Well Error:	0.00 usft		
Reference				Offset				Semi Major Axis				Distance				Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
9,000.00	7,797.04	9,106.81	7,695.72	31.04	33.49	86.30	-1,454.19	-1,645.27	1,574.60	1,510.22	64.39	24.456				
9,100.00	7,797.32	9,206.66	7,695.60	32.57	35.08	86.27	-1,554.04	-1,644.96	1,569.24	1,501.74	67.50	23.248				
9,200.00	7,797.61	9,306.52	7,695.49	34.13	36.69	86.24	-1,653.89	-1,644.66	1,563.88	1,493.21	70.66	22.132				
9,300.00	7,797.89	9,406.37	7,695.37	35.72	38.33	86.21	-1,753.74	-1,644.35	1,558.51	1,484.65	73.87	21.098				
9,400.00	7,798.18	9,506.22	7,695.25	37.32	39.98	86.19	-1,853.60	-1,644.04	1,553.15	1,476.04	77.11	20.141				
9,500.00	7,798.46	9,606.08	7,695.14	38.95	41.64	86.16	-1,953.45	-1,643.74	1,547.79	1,467.40	80.30	19.253				
9,600.00	7,798.75	9,705.93	7,695.02	40.59	43.32	86.13	-2,053.30	-1,643.43	1,542.43	1,458.73	83.70	18.429				
9,700.00	7,799.03	9,805.78	7,694.90	42.25	45.01	86.10	-2,153.15	-1,643.13	1,537.07	1,450.04	87.03	17.661				
9,800.00	7,799.32	9,905.63	7,694.79	43.91	46.71	86.07	-2,253.01	-1,642.82	1,531.71	1,441.32	90.39	16.946				
9,900.00	7,799.60	10,005.49	7,694.67	45.59	48.42	86.04	-2,352.86	-1,642.51	1,526.35	1,432.59	93.76	16.279				
10,000.00	7,799.88	10,105.34	7,694.55	47.28	50.13	86.01	-2,452.71	-1,642.21	1,520.99	1,423.83	97.16	15.655				
10,041.96	7,800.00	10,147.24	7,694.51	48.00	50.86	86.00	-2,494.61	-1,642.08	1,518.74	1,420.15	98.59	15.405				
10,100.00	7,800.08	10,205.16	7,694.44	48.94	51.86	86.00	-2,552.53	-1,641.90	1,515.05	1,414.59	100.46	15.081				
10,152.80	7,799.92	10,257.77	7,694.38	49.77	52.77	86.00	-2,605.15	-1,641.74	1,510.68	1,408.58	102.10	14.796				
10,200.00	7,799.71	10,304.78	7,694.32	50.54	53.59	85.99	-2,652.15	-1,641.60	1,506.34	1,402.68	103.68	14.529				
10,300.00	7,799.27	10,404.35	7,694.21	52.24	55.32	85.98	-2,751.72	-1,641.29	1,497.15	1,390.04	107.10	13.978				
10,400.00	7,798.83	10,503.93	7,694.09	53.96	57.06	85.97	-2,851.30	-1,640.99	1,487.96	1,377.42	110.54	13.461				
10,500.00	7,798.40	10,603.51	7,693.97	55.68	58.80	85.96	-2,950.88	-1,640.68	1,478.77	1,364.78	113.99	12.973				
10,600.00	7,797.96	10,703.08	7,693.86	57.40	60.55	85.94	-3,050.45	-1,640.38	1,469.58	1,352.13	117.44	12.513				
10,700.00	7,797.52	10,802.66	7,693.74	59.13	62.31	85.93	-3,150.03	-1,640.07	1,460.39	1,339.48	120.91	12.078				
10,800.00	7,797.08	10,902.24	7,693.63	60.86	64.06	85.92	-3,249.60	-1,639.77	1,451.20	1,326.81	124.39	11.667				
10,900.00	7,796.64	11,001.81	7,693.51	62.60	65.82	85.90	-3,349.18	-1,639.46	1,442.01	1,314.14	127.87	11.277				
11,000.00	7,796.20	11,101.39	7,693.40	64.34	67.59	85.89	-3,448.75	-1,639.16	1,432.82	1,301.46	131.36	10.908				
11,100.00	7,795.77	11,200.96	7,693.28	66.09	69.36	85.88	-3,548.33	-1,638.85	1,423.63	1,288.77	134.85	10.557				
11,200.00	7,795.33	11,300.54	7,693.16	67.84	71.13	85.86	-3,647.91	-1,638.55	1,414.44	1,276.08	138.36	10.223				
11,300.00	7,794.89	11,400.12	7,693.05	69.59	72.90	85.85	-3,747.48	-1,638.24	1,405.25	1,263.38	141.87	9.905				
11,400.00	7,794.45	11,499.69	7,692.93	71.35	74.67	85.84	-3,847.06	-1,637.94	1,396.06	1,250.68	145.38	9.603				
11,500.00	7,794.01	11,599.27	7,692.82	73.11	76.45	85.82	-3,946.63	-1,637.63	1,386.87	1,237.97	148.90	9.314				
11,600.00	7,793.57	11,698.85	7,692.70	74.87	78.23	85.81	-4,046.21	-1,637.33	1,377.68	1,225.26	152.42	9.039				
11,700.00	7,793.14	11,798.42	7,692.58	76.63	80.01	85.79	-4,145.78	-1,637.02	1,368.49	1,212.54	155.95	8.775				
11,800.00	7,792.70	11,898.00	7,692.47	78.40	81.80	85.78	-4,245.36	-1,636.72	1,359.30	1,199.82	159.48	8.523				
11,900.00	7,792.26	11,997.57	7,692.35	80.16	83.58	85.76	-4,344.94	-1,636.41	1,350.11	1,187.10	163.01	8.282				
12,000.00	7,791.82	12,097.15	7,692.24	81.93	85.37	85.75	-4,444.51	-1,636.11	1,340.92	1,174.37	166.55	8.051				
12,100.00	7,791.38	12,196.73	7,692.12	83.71	87.16	85.73	-4,544.09	-1,635.80	1,331.73	1,161.64	170.09	7.830				
12,187.37	7,791.00	12,283.73	7,692.02	85.25	88.72	85.72	-4,631.09	-1,635.53	1,323.71	1,150.52	173.19	7.643	CC, ES, SF			

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

Leam Drilling Systems LLC

Anticollision Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 9H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3152' + KB 26' @ 3178.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3152' + KB 26' @ 3178.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	9H	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 Draft 1	Offset TVD Reference:	Reference Datum

Offset Design														Offset Site Error:
Lone Tree Draw Offsets - Lone Tree #1 - OH - OH														0.00 usft
Survey Program: 100-NS-GYRO-MS														Offset Well Error:
Reference:														0.00 usft
Measured Reference Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
0.00	0.00	0.00	0.00	0.00	0.00	-134.75	-3,017.82	-3,044.03	4,286.42					
100.00	100.00	88.00	88.00	0.08	0.10	-134.75	-3,017.85	-3,044.18	4,286.56	4,286.37	0.18	N/A		
200.00	200.00	181.56	181.56	0.31	0.33	-134.75	-3,017.88	-3,044.62	4,286.92	4,286.28	0.64	6,736.788		
300.00	300.00	273.38	273.38	0.53	0.57	-134.74	-3,017.94	-3,045.24	4,287.44	4,286.34	1.10	3,888.488		
400.00	400.00	368.47	368.46	0.76	0.82	-134.74	-3,018.22	-3,045.89	4,288.13	4,286.56	1.57	2,725.843		
500.00	500.00	462.76	462.75	0.98	1.05	-134.74	-3,018.70	-3,046.46	4,288.92	4,286.89	2.03	2,108.679		
600.00	600.00	560.81	560.80	1.21	1.29	-134.74	-3,019.41	-3,047.02	4,289.84	4,287.34	2.50	1,715.104		
700.00	700.00	675.95	675.93	1.43	1.56	-134.74	-3,020.23	-3,047.49	4,290.64	4,287.65	2.99	1,436.249		
800.00	800.00	759.26	759.24	1.66	1.74	-134.75	-3,020.88	-3,047.61	4,291.30	4,287.90	3.40	1,262.548		
900.00	900.00	860.29	860.27	1.88	1.98	-134.75	-3,021.79	-3,048.29	4,292.42	4,288.55	3.86	1,110.835		
1,000.00	1,000.00	961.23	961.20	2.11	2.22	-134.76	-3,022.77	-3,048.45	4,293.21	4,288.89	4.33	982.112		
1,100.00	1,100.00	1,046.34	1,046.30	2.33	2.43	-134.77	-3,023.92	-3,048.59	4,294.28	4,289.53	4.76	903.050		
1,200.00	1,200.00	1,128.64	1,128.59	2.56	2.63	-134.77	-3,025.13	-3,049.06	4,295.73	4,290.54	5.19	828.183		
1,300.00	1,300.00	1,211.06	1,210.99	2.78	2.85	-134.78	-3,026.47	-3,049.94	4,297.62	4,292.00	5.63	763.641		
1,400.00	1,400.00	1,316.05	1,315.97	3.01	3.13	-134.78	-3,028.16	-3,051.22	4,299.62	4,293.49	6.13	701.341		
1,500.00	1,500.00	1,412.23	1,412.12	3.23	3.38	-134.79	-3,029.74	-3,052.36	4,301.62	4,295.01	6.61	650.881		
1,600.00	1,600.00	1,512.35	1,512.22	3.45	3.64	-134.78	-3,030.94	-3,054.07	4,303.68	4,296.59	7.09	607.097		
1,700.00	1,700.00	1,621.90	1,621.75	3.68	3.90	-134.77	-3,031.55	-3,056.37	4,305.55	4,297.98	7.58	568.129		
1,800.00	1,800.00	1,713.19	1,713.02	3.90	4.12	-134.75	-3,032.06	-3,058.36	4,307.49	4,299.47	8.02	536.825		
1,900.00	1,900.00	1,817.65	1,817.45	4.13	4.38	-134.74	-3,032.69	-3,060.65	4,309.48	4,300.97	8.51	506.607		
2,000.00	2,000.00	1,944.57	1,944.34	4.35	4.69	-134.72	-3,033.13	-3,063.20	4,311.17	4,302.13	9.04	477.111		
2,100.00	2,100.00	2,066.11	2,065.86	4.58	4.96	-134.70	-3,032.95	-3,064.97	4,312.08	4,302.55	9.53	452.453		
2,200.00	2,200.00	2,171.52	2,171.26	4.80	5.17	-134.68	-3,032.38	-3,066.62	4,312.81	4,302.84	9.97	432.517		
2,300.00	2,300.00	2,273.07	2,272.80	5.03	5.38	-134.66	-3,031.76	-3,068.15	4,313.45	4,303.04	10.40	414.604		
2,400.00	2,400.00	2,371.89	2,371.61	5.25	5.59	-134.64	-3,031.22	-3,069.57	4,314.09	4,303.25	10.84	398.126		
2,500.00	2,500.00	2,472.57	2,472.27	5.48	5.80	-134.62	-3,030.58	-3,071.14	4,314.75	4,303.47	11.28	382.678		
2,600.00	2,600.00	2,580.75	2,580.44	5.70	6.03	-134.60	-3,029.89	-3,072.67	4,315.32	4,303.59	11.73	367.895		
2,700.00	2,700.00	2,681.85	2,681.53	5.93	6.25	-134.58	-3,029.35	-3,073.81	4,315.74	4,303.56	12.18	354.437		
2,800.00	2,800.00	2,784.03	2,783.70	6.15	6.48	-134.57	-3,028.98	-3,074.76	4,316.15	4,303.52	12.63	341.734		
2,900.00	2,900.00	2,884.20	2,883.87	6.38	6.71	-134.56	-3,028.48	-3,075.77	4,316.52	4,303.44	13.08	330.042		
3,000.00	3,000.00	3,000.00	2,999.66	6.60	6.95	-134.54	-3,027.94	-3,076.60	4,316.70	4,303.16	13.54	318.735		
3,100.00	3,100.00	3,094.23	3,093.89	6.83	7.13	-134.53	-3,027.38	-3,077.21	4,316.74	4,302.79	13.95	309.379		
3,200.00	3,200.00	3,222.64	3,222.29	7.05	7.35	-134.52	-3,026.23	-3,077.89	4,316.48	4,302.08	14.40	299.800		
3,300.00	3,300.00	3,321.93	3,321.58	7.28	7.50	-134.50	-3,025.05	-3,078.44	4,316.04	4,301.27	14.77	292.136		
3,400.00	3,400.00	3,437.29	3,436.93	7.50	7.67	-134.48	-3,023.48	-3,078.67	4,315.21	4,300.04	15.16	284.598		
3,500.00	3,500.00	3,528.29	3,527.92	7.73	7.80	-134.47	-3,022.22	-3,079.02	4,314.51	4,298.99	15.52	277.976		
3,600.00	3,600.00	3,649.08	3,648.69	7.95	7.99	-134.44	-3,020.25	-3,079.59	4,313.71	4,297.77	15.94	270.648		
3,700.00	3,700.00	3,762.30	3,761.88	8.17	8.15	-134.42	-3,017.88	-3,079.70	4,312.31	4,295.98	16.33	264.148		
3,800.00	3,800.00	3,857.20	3,856.77	8.40	8.29	-134.40	-3,016.01	-3,079.70	4,310.92	4,294.24	16.69	258.353		
3,900.00	3,900.00	3,954.22	3,953.76	8.62	8.44	-134.38	-3,014.06	-3,079.88	4,309.66	4,292.60	17.06	252.619		
4,000.00	4,000.00	4,052.51	4,052.04	8.85	8.60	-134.36	-3,012.21	-3,080.00	4,308.42	4,290.98	17.44	246.993		
4,100.00	4,100.00	4,142.65	4,142.16	9.07	8.75	-134.34	-3,010.48	-3,080.26	4,307.29	4,289.46	17.82	241.647		
4,200.00	4,200.00	4,232.37	4,231.86	9.30	8.92	-134.33	-3,009.08	-3,080.62	4,306.48	4,288.26	18.22	236.416		
4,300.00	4,300.00	4,335.16	4,334.64	9.52	9.11	-134.31	-3,007.63	-3,080.92	4,305.70	4,287.07	18.63	231.056		
4,400.00	4,400.00	4,444.25	4,443.72	9.75	9.32	-134.29	-3,005.89	-3,081.30	4,304.85	4,285.78	19.07	225.769		
4,500.00	4,500.00	4,540.42	4,539.88	9.97	9.51	-134.27	-3,004.07	-3,081.58	4,303.74	4,284.26	19.48	220.926		
4,600.00	4,600.00	4,625.99	4,625.43	10.20	9.68	-134.26	-3,002.91	-3,081.95	4,303.08	4,283.21	19.88	216.476		
4,700.00	4,700.00	4,735.91	4,735.35	10.42	9.90	-134.24	-3,001.37	-3,082.18	4,302.24	4,281.92	20.33	211.670		
4,800.00	4,800.00	4,825.26	4,824.69	10.65	10.09	-134.22	-3,000.04	-3,082.66	4,301.60	4,280.86	20.74	207.449		
4,900.00	4,900.00	4,925.91	4,925.33	10.87	10.30	-134.21	-2,998.74	-3,083.03	4,300.95	4,279.77	21.17	203.115		
5,000.00	5,000.00	5,020.15	5,019.55	11.10	10.52	-134.19	-2,997.61	-3,083.50	4,300.47	4,278.85	21.62	198.907		

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 9H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3152' + KB 26' @ 3178.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3152' + KB 26' @ 3178.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	9H	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 Draft 1	Offset TVD Reference:	Reference Datum

Offset Design Lone Tree Draw Offsets - Lone Tree #1 - OH - OH													Offset Site Error: 0.00 usft
Survey Program: 100-NS-GYRO-MS													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Tooface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)				Between Centres (usft)	Between Ellipses (usft)			
5,100.00	5,100.00	5,119.85	5,119.25	11.32	10.77	-134.17	-2,896.44	-3,084.01	4,300.02	4,277.93	22.09	194.693	
5,200.00	5,200.00	5,219.56	5,218.95	11.55	11.01	-134.16	-2,895.28	-3,084.52	4,299.57	4,277.02	22.55	190.653	
5,300.00	5,300.00	5,319.27	5,318.65	11.77	11.25	-134.14	-2,894.14	-3,085.02	4,299.14	4,276.12	23.02	186.776	
5,400.00	5,400.00	5,418.98	5,418.35	12.00	11.49	-134.13	-2,893.02	-3,085.51	4,298.71	4,275.22	23.48	183.054	
5,500.00	5,500.00	5,518.69	5,518.05	12.22	11.73	-134.11	-2,891.91	-3,086.00	4,298.28	4,274.33	23.95	179.477	
5,600.00	5,600.00	5,618.40	5,617.76	12.45	11.97	-134.10	-2,890.82	-3,086.47	4,297.87	4,273.45	24.41	176.036	
5,700.00	5,700.00	5,718.11	5,717.46	12.67	12.21	-134.08	-2,889.75	-3,086.94	4,297.46	4,272.58	24.88	172.725	
5,800.00	5,800.00	5,817.82	5,817.16	12.89	12.45	-134.07	-2,888.70	-3,087.40	4,297.05	4,271.71	25.35	169.535	
5,900.00	5,900.00	5,917.53	5,916.87	13.12	12.69	-134.06	-2,887.66	-3,087.86	4,296.66	4,270.85	25.81	166.461	
6,000.00	6,000.00	6,017.24	6,016.57	13.34	12.93	-134.04	-2,886.64	-3,088.30	4,296.27	4,269.99	26.28	163.486	
6,100.00	6,100.00	6,116.95	6,116.28	13.57	13.17	-134.03	-2,885.64	-3,088.74	4,295.89	4,269.14	26.74	160.635	
6,200.00	6,200.00	6,216.66	6,215.99	13.79	13.42	-134.01	-2,884.65	-3,089.17	4,295.51	4,268.30	27.21	157.872	
6,300.00	6,300.00	6,316.38	6,315.69	14.02	13.66	-134.00	-2,883.69	-3,089.60	4,295.14	4,267.47	27.67	155.202	
6,400.00	6,400.00	6,416.09	6,415.40	14.24	13.90	-133.99	-2,882.73	-3,090.02	4,294.78	4,266.64	28.14	152.620	
6,500.00	6,500.00	6,515.80	6,515.11	14.47	14.14	-133.98	-2,881.80	-3,090.42	4,294.42	4,265.82	28.61	150.123	
6,600.00	6,600.00	6,615.52	6,614.82	14.69	14.38	-133.96	-2,880.88	-3,090.83	4,294.08	4,265.00	29.07	147.707	
6,700.00	6,700.00	6,715.23	6,714.53	14.92	14.62	-133.95	-2,879.99	-3,091.22	4,293.73	4,264.20	29.54	145.366	
6,800.00	6,800.00	6,814.94	6,814.24	15.14	14.86	-133.94	-2,879.10	-3,091.61	4,293.40	4,263.40	30.00	143.099	
6,900.00	6,900.00	6,914.66	6,913.95	15.37	15.10	-133.93	-2,878.24	-3,091.98	4,293.07	4,262.60	30.47	140.901	
7,000.00	7,000.00	7,014.37	7,013.66	15.59	15.34	-133.91	-2,877.39	-3,092.36	4,292.75	4,261.82	30.93	138.769	
7,100.00	7,100.00	7,114.09	7,113.37	15.82	15.58	-133.90	-2,876.56	-3,092.72	4,292.44	4,261.03	31.40	136.701	
7,200.00	7,200.00	7,213.81	7,213.08	16.04	15.82	-133.89	-2,875.75	-3,093.07	4,292.13	4,260.26	31.87	134.693	
7,221.58	7,221.58	7,235.32	7,234.60	16.09	15.88	-133.89	-2,875.57	-3,093.15	4,292.06	4,260.10	31.97	134.268	
7,250.00	7,249.99	7,263.65	7,262.92	16.15	15.94	43.24	-2,875.35	-3,093.25	4,291.46	4,259.39	32.07	133.805	
7,300.00	7,299.76	7,313.24	7,312.51	16.23	16.06	43.53	-2,874.95	-3,093.42	4,287.92	4,255.77	32.16	133.347	
7,350.00	7,348.93	7,362.20	7,361.47	16.32	16.18	44.09	-2,874.57	-3,093.59	4,281.25	4,249.11	32.13	133.233	
7,400.00	7,397.13	7,410.17	7,409.44	16.40	16.30	44.91	-2,874.20	-3,093.75	4,271.50	4,239.48	32.02	133.399	
7,450.00	7,444.00	7,458.78	7,458.04	16.49	16.41	46.01	-2,873.84	-3,093.91	4,258.77	4,226.93	31.84	133.747	
7,500.00	7,489.17	7,501.67	7,500.93	16.57	16.52	47.41	-2,873.50	-3,094.06	4,243.18	4,211.55	31.63	134.138	
7,550.00	7,532.31	7,544.50	7,543.77	16.66	16.62	49.12	-2,873.17	-3,094.20	4,224.89	4,193.45	31.44	134.398	
7,600.00	7,573.08	7,584.96	7,584.22	16.77	16.72	51.15	-2,872.87	-3,094.33	4,204.05	4,172.75	31.30	134.319	
7,650.00	7,611.18	7,622.72	7,621.98	16.91	16.81	53.52	-2,872.59	-3,094.46	4,180.88	4,149.60	31.27	133.686	
7,700.00	7,646.31	7,657.51	7,656.77	17.07	16.90	56.25	-2,872.34	-3,094.57	4,155.58	4,124.17	31.41	132.321	
7,750.00	7,678.21	7,689.06	7,688.32	17.26	16.97	59.33	-2,872.11	-3,094.67	4,128.38	4,096.66	31.72	130.133	
7,800.00	7,706.64	7,717.13	7,716.39	17.48	17.04	62.77	-2,871.91	-3,094.76	4,099.55	4,067.31	32.24	127.160	
7,850.00	7,731.37	7,741.50	7,740.76	17.74	17.10	66.53	-2,871.73	-3,094.83	4,069.33	4,036.40	32.93	123.578	
7,900.00	7,752.22	7,761.99	7,761.25	18.03	17.15	70.59	-2,871.58	-3,094.90	4,038.01	4,004.28	33.74	119.664	
7,950.00	7,769.04	7,778.44	7,777.70	18.36	17.19	74.87	-2,871.47	-3,094.95	4,005.84	3,971.23	34.61	115.732	
8,000.00	7,781.69	7,790.73	7,789.99	18.73	17.22	79.31	-2,871.38	-3,094.99	3,973.12	3,937.67	35.46	112.060	
8,050.00	7,790.07	7,798.76	7,798.02	19.13	17.24	83.81	-2,871.32	-3,095.01	3,940.13	3,903.93	36.20	108.846	
8,100.00	7,794.13	7,802.47	7,801.73	19.56	17.25	88.26	-2,871.30	-3,095.02	3,907.12	3,870.33	36.80	106.184	
8,119.95	7,794.54	7,802.74	7,801.99	19.74	17.25	90.00	-2,871.30	-3,095.02	3,894.01	3,857.02	36.99	105.280	
8,200.00	7,794.76	7,802.42	7,801.67	20.51	17.25	90.00	-2,871.30	-3,095.02	3,841.99	3,804.23	37.76	101.755	
8,300.00	7,795.05	7,802.01	7,801.27	21.58	17.25	89.99	-2,871.30	-3,095.02	3,778.38	3,739.56	38.82	97.336	
8,400.00	7,795.33	7,801.61	7,800.86	22.73	17.24	89.98	-2,871.30	-3,095.02	3,716.37	3,676.39	39.97	92.968	
8,500.00	7,795.62	7,801.21	7,800.46	23.97	17.24	89.97	-2,871.31	-3,095.02	3,656.04	3,614.83	41.21	88.710	
8,600.00	7,795.90	7,800.80	7,800.06	25.28	17.24	89.97	-2,871.31	-3,095.02	3,597.48	3,554.96	42.52	84.602	
8,700.00	7,796.19	7,800.40	7,799.65	26.65	17.24	89.96	-2,871.31	-3,095.02	3,540.78	3,496.89	43.89	80.673	
8,800.00	7,796.47	7,799.99	7,799.25	28.07	17.24	89.95	-2,871.32	-3,095.02	3,486.03	3,440.72	45.31	76.938	
8,900.00	7,796.75	7,799.59	7,798.85	29.54	17.24	89.94	-2,871.32	-3,095.01	3,433.31	3,386.54	46.77	73.405	

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 9H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3152' + KB 26' @ 3178.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3152' + KB 26' @ 3178.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	9H	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 Draft 1	Offset TVD Reference:	Reference Datum

Offset Design Lone Tree Draw Offsets - Lone Tree #1 - OH - OH														Offset Site Error:	0.00 usft
Survey Program: 100-NS-GYRO-MS														Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance		Minimum Separation (usft)	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)				Between Centres (usft)	Between Ellipses (usft)					
9,000.00	7,797.04	7,799.19	7,798.44	31.04	17.24	89.93	-2,971.32	-3,095.01	3,382.73	3,334.46	48.27	70.076			
9,100.00	7,797.32	7,798.78	7,798.04	32.57	17.24	89.93	-2,971.32	-3,095.01	3,334.39	3,284.58	49.80	66.949			
9,200.00	7,797.61	7,798.38	7,797.63	34.13	17.24	89.92	-2,971.33	-3,095.01	3,288.37	3,237.01	51.37	64.020			
9,300.00	7,797.89	7,797.97	7,797.23	35.72	17.24	89.91	-2,971.33	-3,095.01	3,244.79	3,191.84	52.95	61.281			
9,400.00	7,798.18	7,797.57	7,796.82	37.32	17.24	89.90	-2,971.33	-3,095.01	3,203.73	3,149.17	54.56	58.725			
9,500.00	7,798.46	7,797.16	7,796.42	38.95	17.23	89.90	-2,971.34	-3,095.01	3,165.30	3,109.12	56.18	56.343			
9,600.00	7,798.75	7,796.76	7,796.01	40.59	17.23	89.89	-2,971.34	-3,095.01	3,129.60	3,071.78	57.82	54.127			
9,700.00	7,799.03	7,796.36	7,795.61	42.25	17.23	89.88	-2,971.34	-3,095.00	3,096.71	3,037.24	59.47	52.088			
9,800.00	7,799.32	7,795.95	7,795.20	43.91	17.23	89.87	-2,971.34	-3,095.00	3,066.74	3,005.59	61.14	50.158			
9,900.00	7,799.60	7,795.54	7,794.80	45.59	17.23	89.86	-2,971.35	-3,095.00	3,039.76	2,976.94	62.82	48.386			
10,000.00	7,799.88	7,795.14	7,794.39	47.28	17.23	89.86	-2,971.35	-3,095.00	3,015.85	2,951.34	64.51	46.750			
10,041.96	7,800.00	7,794.97	7,794.22	48.00	17.23	89.85	-2,971.35	-3,095.00	3,006.76	2,941.53	65.22	46.101			
10,100.00	7,800.08	7,794.63	7,793.88	48.94	17.23	89.89	-2,971.35	-3,095.00	2,994.53	2,928.37	66.16	45.283			
10,152.80	7,799.92	7,794.13	7,793.38	49.77	17.23	89.93	-2,971.36	-3,095.00	2,983.36	2,916.40	66.96	44.554			
10,200.00	7,799.71	7,793.60	7,792.85	50.54	17.23	89.92	-2,971.36	-3,095.00	2,973.72	2,905.99	67.73	43.904			
10,300.00	7,799.27	7,792.48	7,791.74	52.24	17.22	89.89	-2,971.37	-3,094.99	2,955.67	2,886.23	69.44	42.567			
10,400.00	7,798.83	7,791.37	7,790.62	53.96	17.22	89.87	-2,971.38	-3,094.99	2,940.91	2,869.76	71.15	41.336			
10,500.00	7,798.40	7,790.25	7,789.50	55.68	17.22	89.85	-2,971.38	-3,094.99	2,929.49	2,856.63	72.86	40.206			
10,600.00	7,797.96	7,789.13	7,788.39	57.40	17.21	89.83	-2,971.39	-3,094.98	2,921.46	2,846.87	74.58	39.170			
10,700.00	7,797.52	7,788.01	7,787.27	59.13	17.21	89.81	-2,971.40	-3,094.98	2,916.83	2,840.51	76.31	38.222			
10,785.17	7,797.15	7,787.06	7,786.32	60.61	17.21	89.79	-2,971.41	-3,094.98	2,915.58	2,837.79	77.79	37.481	CC		
10,800.00	7,797.08	7,786.89	7,786.15	60.86	17.21	89.78	-2,971.41	-3,094.98	2,915.62	2,837.58	78.04	37.358	ES		
10,900.00	7,796.64	7,785.78	7,785.03	62.60	17.21	89.76	-2,971.42	-3,094.97	2,917.84	2,838.06	79.78	36.573			
11,000.00	7,796.20	7,784.66	7,783.91	64.34	17.20	89.74	-2,971.42	-3,094.97	2,923.49	2,841.96	81.52	35.862			
11,100.00	7,795.77	7,783.54	7,782.79	66.09	17.20	89.72	-2,971.43	-3,094.96	2,932.53	2,849.26	83.27	35.219			
11,200.00	7,795.33	7,782.42	7,781.67	67.84	17.20	89.70	-2,971.44	-3,094.96	2,944.94	2,859.93	85.01	34.641			
11,300.00	7,794.89	7,781.30	7,780.55	69.59	17.20	89.67	-2,971.45	-3,094.96	2,960.68	2,873.92	86.76	34.124			
11,400.00	7,794.45	7,780.18	7,779.43	71.35	17.19	89.65	-2,971.46	-3,094.95	2,979.70	2,891.18	88.52	33.662			
11,500.00	7,794.01	7,779.06	7,778.31	73.11	17.19	89.63	-2,971.46	-3,094.95	3,001.92	2,911.65	90.27	33.254			
11,600.00	7,793.57	7,777.94	7,777.19	74.87	17.19	89.61	-2,971.47	-3,094.95	3,027.29	2,935.26	92.03	32.894			
11,700.00	7,793.14	7,776.81	7,776.07	76.63	17.18	89.59	-2,971.48	-3,094.94	3,055.72	2,961.93	93.79	32.580			
11,800.00	7,792.70	7,775.69	7,774.95	78.40	17.18	89.56	-2,971.49	-3,094.94	3,087.13	2,991.58	95.56	32.307			
11,900.00	7,792.26	7,774.57	7,773.82	80.16	17.18	89.54	-2,971.50	-3,094.94	3,121.43	3,024.11	97.32	32.074			
12,000.00	7,791.82	7,773.45	7,772.70	81.93	17.18	89.52	-2,971.50	-3,094.93	3,158.52	3,059.43	99.09	31.876			
12,100.00	7,791.38	7,772.32	7,771.58	83.71	17.17	89.50	-2,971.51	-3,094.93	3,198.31	3,097.46	100.86	31.712			
12,187.37	7,791.00	7,771.34	7,770.60	85.25	17.17	89.48	-2,971.52	-3,094.93	3,235.20	3,132.80	102.40	31.593	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 9H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3152' + KB 26' @ 3178.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3152' + KB 26' @ 3178.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	9H	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 Draft 1	Offset TVD Reference:	Reference Datum

Offset Design													Offset Site Error:	0.00 usft		
Lone Tree Draw Offsets - Lone Tree Draw 13 State #3H - OH - OH													Offset Well Error:	0.00 usft		
Survey Program: 100-NS-GYRO-MS, 4452-MWD-ISCWSA, 9564-Project																
Reference		Offset		Semi Major Axis			Distance			Minimum Separation		Separation Factor		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
0.00	0.00	29.43	3.43	0.00	0.03	-87.50	139.99	-3,208.41	3,211.47							
100.00	100.00	135.50	109.50	0.08	0.20	-87.49	140.72	-3,208.10	3,211.20	3,210.91	0.29	N/A				
200.00	200.00	231.79	205.78	0.31	0.46	-87.48	141.39	-3,207.86	3,210.98	3,210.22	0.77	4,190.851				
300.00	300.00	329.12	303.11	0.53	0.71	-87.45	142.77	-3,207.63	3,210.81	3,209.56	1.25	2,574.450				
332.14	332.14	358.18	332.16	0.60	0.79	-87.44	143.25	-3,207.60	3,210.79	3,209.40	1.40	2,301.161				
400.00	400.00	422.11	396.08	0.76	0.96	-87.42	144.29	-3,207.61	3,210.85	3,209.14	1.71	1,872.429				
500.00	500.00	527.05	501.01	0.98	1.23	-87.40	145.67	-3,207.62	3,210.93	3,208.71	2.21	1,449.914				
600.00	600.00	631.11	605.06	1.21	1.51	-87.37	147.22	-3,207.36	3,210.74	3,208.03	2.71	1,182.888				
640.60	640.60	666.73	640.67	1.30	1.60	-87.36	147.88	-3,207.30	3,210.71	3,207.81	2.90	1,107.251				
700.00	700.00	722.60	696.54	1.43	1.75	-87.34	149.01	-3,207.30	3,210.76	3,207.58	3.18	1,009.371				
800.00	800.00	830.97	804.89	1.66	2.04	-87.31	150.84	-3,207.23	3,210.78	3,207.09	3.69	869.567				
900.00	900.00	931.24	905.13	1.88	2.30	-87.27	152.77	-3,206.83	3,210.47	3,206.29	4.18	767.788				
921.65	921.65	947.75	921.65	1.93	2.34	-87.27	153.10	-3,206.80	3,210.45	3,206.18	4.27	751.313 CC				
1,000.00	1,000.00	1,008.41	982.29	2.11	2.50	-87.25	154.25	-3,206.92	3,210.68	3,206.07	4.61	697.061 ES				
1,100.00	1,100.00	1,100.00	1,073.87	2.33	2.73	-87.22	155.80	-3,207.58	3,211.47	3,206.41	5.06	635.162				
1,200.00	1,200.00	1,180.71	1,154.56	2.56	2.91	-87.20	157.02	-3,208.52	3,212.68	3,207.21	5.46	587.913				
1,300.00	1,300.00	1,275.80	1,249.63	2.78	3.11	-87.18	158.22	-3,209.90	3,214.19	3,208.30	5.89	545.520				
1,400.00	1,400.00	1,386.82	1,360.64	3.01	3.34	-87.16	159.13	-3,211.46	3,215.64	3,209.30	6.34	506.969				
1,500.00	1,500.00	1,474.96	1,448.77	3.23	3.52	-87.15	159.79	-3,212.62	3,217.00	3,210.25	6.75	476.428				
1,600.00	1,600.00	1,566.09	1,539.88	3.45	3.72	-87.14	160.76	-3,214.18	3,218.76	3,211.59	7.18	448.451				
1,700.00	1,700.00	1,666.34	1,640.11	3.68	3.95	-87.12	162.05	-3,216.03	3,220.66	3,213.03	7.63	421.946				
1,800.00	1,800.00	1,752.45	1,726.19	3.90	4.15	-87.10	163.09	-3,217.67	3,222.65	3,214.60	8.05	400.368				
1,900.00	1,900.00	1,850.56	1,824.27	4.13	4.35	-87.09	163.70	-3,220.12	3,225.16	3,216.68	8.48	380.324				
2,000.00	2,000.00	1,950.71	1,924.40	4.35	4.56	-87.08	164.26	-3,222.26	3,227.33	3,218.42	8.91	362.213				
2,100.00	2,100.00	2,067.61	2,041.26	4.58	4.80	-87.08	164.60	-3,225.01	3,229.74	3,220.36	9.38	344.467				
2,200.00	2,200.00	2,166.25	2,139.89	4.80	5.00	-87.08	164.80	-3,226.60	3,231.37	3,221.57	9.80	329.708				
2,300.00	2,300.00	2,276.42	2,250.04	5.03	5.23	-87.08	164.76	-3,228.66	3,233.25	3,223.00	10.25	315.314				
2,400.00	2,400.00	2,403.55	2,377.17	5.25	5.51	-87.07	165.14	-3,230.05	3,234.35	3,223.59	10.76	300.527				
2,500.00	2,500.00	2,500.00	2,473.61	5.48	5.72	-87.07	165.15	-3,230.84	3,235.16	3,223.97	11.19	289.089				
2,600.00	2,600.00	2,578.10	2,551.70	5.70	5.88	-87.08	165.08	-3,231.79	3,236.36	3,224.78	11.58	279.556				
2,700.00	2,700.00	2,672.13	2,645.72	5.93	6.07	-87.08	164.82	-3,233.35	3,238.00	3,226.01	11.99	270.077				
2,800.00	2,800.00	2,768.58	2,742.16	6.15	6.26	-87.09	164.40	-3,235.03	3,239.72	3,227.31	12.41	261.160				
2,900.00	2,900.00	2,872.16	2,845.72	6.38	6.47	-87.10	164.02	-3,236.88	3,241.49	3,228.65	12.84	252.430				
3,000.00	3,000.00	3,000.00	2,973.54	6.60	6.74	-87.11	163.66	-3,238.56	3,242.80	3,229.47	13.33	243.206				
3,100.00	3,100.00	3,089.45	3,062.99	6.83	6.94	-87.11	163.57	-3,239.42	3,243.76	3,230.00	13.76	235.774				
3,200.00	3,200.00	3,175.62	3,149.15	7.05	7.14	-87.11	163.60	-3,240.58	3,245.11	3,230.92	14.19	228.749				
3,300.00	3,300.00	3,274.40	3,247.92	7.28	7.37	-87.11	163.66	-3,242.21	3,246.75	3,232.11	14.64	221.715				
3,400.00	3,400.00	3,386.87	3,360.38	7.50	7.63	-87.12	163.40	-3,243.84	3,248.20	3,233.07	15.12	214.772				
3,500.00	3,500.00	3,484.24	3,457.74	7.73	7.85	-87.12	163.20	-3,245.05	3,249.43	3,233.85	15.57	208.686				
3,600.00	3,600.00	3,584.48	3,557.97	7.95	8.09	-87.12	163.08	-3,246.37	3,250.74	3,234.70	16.03	202.759				
3,700.00	3,700.00	3,686.07	3,659.55	8.17	8.34	-87.12	163.11	-3,247.66	3,252.01	3,235.50	16.51	197.014				
3,800.00	3,800.00	3,785.06	3,758.53	8.40	8.58	-87.13	163.16	-3,248.90	3,253.26	3,236.28	16.98	191.650				
3,900.00	3,900.00	3,883.21	3,856.68	8.62	8.82	-87.13	163.09	-3,250.18	3,254.56	3,237.12	17.44	186.620				
4,000.00	4,000.00	3,985.27	3,958.72	8.85	9.08	-87.13	163.12	-3,251.52	3,255.87	3,237.95	17.92	181.704				
4,100.00	4,100.00	4,081.09	4,054.54	9.07	9.32	-87.13	163.25	-3,252.78	3,257.19	3,238.80	18.39	177.152				
4,200.00	4,200.00	4,175.45	4,148.89	9.30	9.56	-87.12	163.43	-3,254.17	3,258.67	3,239.82	18.85	172.851				
4,300.00	4,300.00	4,267.27	4,240.70	9.52	9.79	-87.12	163.61	-3,255.70	3,260.35	3,241.04	19.31	168.832				
4,400.00	4,400.00	4,366.40	4,339.80	9.75	10.04	-87.12	163.66	-3,257.57	3,262.23	3,242.44	19.79	164.879				
4,500.00	4,500.00	4,473.83	4,447.18	9.97	10.15	-87.17	161.38	-3,259.49	3,263.91	3,243.74	20.17	161.845				
4,600.00	4,600.00	4,615.41	4,585.30	10.20	10.19	-87.67	132.56	-3,262.45	3,265.18	3,244.76	20.42	159.872				
4,700.00	4,700.00	4,841.49	4,774.04	10.42	10.56	-89.80	11.49	-3,264.61	3,265.47	3,244.38	21.09	154.816				

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

Leam Drilling Systems LLC
Anticollision Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 9H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3152' + KB 26' @ 3178.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3152' + KB 26' @ 3178.00usft (Original Well Elev)
Site Error:	0.00.usft	North Reference:	Grid
Reference Well:	9H	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 Draft 1	Offset TVD Reference:	Reference Datum

Offset Design Lone Tree Draw Offsets - Lone Tree Draw 13 State #3H - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 100-NS-GYRO-MS. 4452-MWD-HSCWSA, 9564-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 +N/-S (usft)	Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
4,799.45	4,799.45	4,878.70	4,799.45	10.65	10.71	-90.28	-15.67	-3,264.34	3,264.38	3,242.90	21.48	151.970		
4,800.00	4,800.00	4,878.96	4,799.62	10.65	10.71	-90.28	-15.88	-3,264.34	3,264.38	3,242.89	21.48	151.952		
4,900.00	4,900.00	4,932.06	4,831.85	10.87	10.97	-91.02	-58.03	-3,264.19	3,265.42	3,243.42	22.00	148.414		
5,000.00	5,000.00	5,096.03	4,898.20	11.10	12.26	-93.64	-207.24	-3,259.79	3,267.96	3,244.31	23.65	138.200		
5,100.00	5,100.00	5,115.00	4,903.02	11.32	12.44	-93.96	-225.56	-3,258.86	3,272.59	3,248.51	24.08	135.928		
5,200.00	5,200.00	5,115.00	4,903.02	11.55	12.44	-93.96	-225.56	-3,258.86	3,280.13	3,255.82	24.30	134.981		
5,300.00	5,300.00	5,115.00	4,903.02	11.77	12.44	-93.96	-225.56	-3,258.86	3,290.69	3,266.16	24.53	134.174		
5,400.00	5,400.00	5,115.00	4,903.02	12.00	12.44	-93.96	-225.56	-3,258.86	3,304.24	3,279.49	24.75	133.503		
5,500.00	5,500.00	5,129.93	4,906.26	12.22	12.60	-94.21	-240.11	-3,258.25	3,320.60	3,295.45	25.14	132.063		
5,600.00	5,600.00	5,134.01	4,907.07	12.45	12.64	-94.28	-244.12	-3,258.11	3,339.91	3,314.50	25.41	131.416		
5,700.00	5,700.00	5,147.00	4,909.38	12.67	12.78	-94.51	-256.89	-3,257.75	3,362.14	3,336.35	25.79	130.388		
5,800.00	5,800.00	5,147.00	4,909.38	12.89	12.78	-94.51	-256.89	-3,257.75	3,387.05	3,361.04	26.01	130.219		
5,900.00	5,900.00	5,147.00	4,909.38	13.12	12.78	-94.51	-256.89	-3,257.75	3,414.71	3,388.47	26.24	130.158		
6,000.00	6,000.00	5,147.00	4,909.38	13.34	12.78	-94.51	-256.89	-3,257.75	3,445.05	3,418.59	26.46	130.199		
6,100.00	6,100.00	5,147.00	4,909.38	13.57	12.78	-94.51	-256.89	-3,257.75	3,478.00	3,451.31	26.68	130.337		
6,200.00	6,200.00	5,147.00	4,909.38	13.79	12.78	-94.51	-256.89	-3,257.75	3,513.49	3,486.58	26.91	130.567		
6,300.00	6,300.00	5,161.15	4,911.55	14.02	12.93	-94.75	-270.87	-3,257.43	3,551.34	3,524.04	27.30	130.081		
6,400.00	6,400.00	5,164.97	4,912.09	14.24	12.97	-94.82	-274.66	-3,257.35	3,591.61	3,564.04	27.57	130.268		
6,500.00	6,500.00	5,179.00	4,913.86	14.47	13.13	-95.06	-288.57	-3,257.07	3,634.23	3,606.26	27.96	129.971		
6,600.00	6,600.00	5,179.00	4,913.86	14.69	13.13	-95.06	-288.57	-3,257.07	3,678.97	3,650.78	28.19	130.522		
6,700.00	6,700.00	5,179.00	4,913.86	14.92	13.13	-95.06	-288.57	-3,257.07	3,725.86	3,697.45	28.41	131.140		
6,800.00	6,800.00	5,179.00	4,913.86	15.14	13.13	-95.06	-288.57	-3,257.07	3,774.82	3,746.19	28.64	131.820		
6,900.00	6,900.00	5,179.00	4,913.86	15.37	13.13	-95.06	-288.57	-3,257.07	3,825.77	3,796.91	28.86	132.559		
7,000.00	7,000.00	5,179.00	4,913.86	15.59	13.13	-95.06	-288.57	-3,257.07	3,878.63	3,849.54	29.09	133.352		
7,100.00	7,100.00	5,179.00	4,913.86	15.82	13.13	-95.06	-288.57	-3,257.07	3,933.32	3,904.00	29.31	134.195		
7,200.00	7,200.00	5,179.00	4,913.86	16.04	13.13	-95.06	-288.57	-3,257.07	3,989.76	3,960.23	29.54	135.085		
7,221.58	7,221.58	5,179.00	4,913.86	16.09	13.13	-95.06	-288.57	-3,257.07	4,002.17	3,972.58	29.58	135.283		
7,250.00	7,249.99	5,179.00	4,913.86	16.15	13.13	80.04	-288.57	-3,257.07	4,018.53	3,989.29	29.24	137.424		
7,300.00	7,299.76	5,179.00	4,913.86	16.23	13.13	76.62	-288.57	-3,257.07	4,047.15	4,017.87	29.28	138.242		
7,350.00	7,348.93	5,179.00	4,913.86	16.32	13.13	73.32	-288.57	-3,257.07	4,075.35	4,046.08	29.27	139.213		
7,400.00	7,397.13	5,179.00	4,913.86	16.40	13.13	70.18	-288.57	-3,257.07	4,102.94	4,073.72	29.22	140.392		
7,450.00	7,444.00	5,202.89	4,916.17	16.49	13.41	66.90	-312.34	-3,256.58	4,129.39	4,100.03	29.36	140.635		
7,500.00	7,489.17	5,208.04	4,916.55	16.57	13.47	64.12	-317.47	-3,256.47	4,155.01	4,125.64	29.37	141.463		
7,550.00	7,532.31	5,213.79	4,916.92	16.66	13.54	61.57	-323.21	-3,256.34	4,179.39	4,150.05	29.34	142.440		
7,600.00	7,573.08	5,237.00	4,917.87	16.77	13.82	59.07	-346.39	-3,255.77	4,202.54	4,173.14	29.40	142.942		
7,650.00	7,611.18	5,237.00	4,917.87	16.91	13.82	57.07	-346.39	-3,255.77	4,223.84	4,194.64	29.21	144.617		
7,700.00	7,646.31	5,237.00	4,917.87	17.07	13.82	55.30	-346.39	-3,255.77	4,243.47	4,214.50	28.98	146.453		
7,750.00	7,678.21	5,237.00	4,917.87	17.26	13.82	53.74	-346.39	-3,255.77	4,261.31	4,232.59	28.72	148.374		
7,800.00	7,706.64	5,270.53	4,918.51	17.48	14.24	52.18	-379.91	-3,254.99	4,276.98	4,248.23	28.75	148.790		
7,850.00	7,731.37	5,292.59	4,918.83	17.74	14.52	50.96	-401.96	-3,254.58	4,290.44	4,261.75	28.70	149.517		
7,900.00	7,752.22	5,332.00	4,919.21	18.03	15.01	49.80	-441.36	-3,254.03	4,301.62	4,272.78	28.84	149.133		
7,950.00	7,769.04	5,372.44	4,919.65	18.36	15.51	49.09	-481.80	-3,253.61	4,310.18	4,281.10	29.07	148.246		
8,000.00	7,781.89	5,463.23	4,921.99	18.73	16.61	48.43	-572.55	-3,252.74	4,315.49	4,285.64	29.85	144.573		
8,050.00	7,790.07	5,525.41	4,924.08	19.13	17.37	48.14	-634.70	-3,252.15	4,317.72	4,287.20	30.53	141.439		
8,100.00	7,794.13	5,602.99	4,927.09	19.56	18.39	48.14	-712.22	-3,251.27	4,316.82	4,285.27	31.55	136.810		
8,119.95	7,794.54	5,629.98	4,928.23	19.74	18.76	48.22	-739.18	-3,250.90	4,315.56	4,283.58	31.98	134.943		
8,200.00	7,794.76	5,711.00	4,931.64	20.51	19.92	48.20	-820.11	-3,249.53	4,309.43	4,275.97	33.45	128.822		
8,300.00	7,795.05	5,752.72	4,933.17	21.58	20.55	48.19	-861.80	-3,249.00	4,302.50	4,267.74	34.76	123.793		
8,400.00	7,795.33	5,806.00	4,934.54	22.73	21.36	48.18	-915.06	-3,249.11	4,297.10	4,260.84	36.27	118.480		
8,500.00	7,795.62	5,874.70	4,935.97	23.97	22.39	48.17	-983.74	-3,249.79	4,292.69	4,254.66	38.03	112.866		

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 9H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3152' + KB 26' @ 3178.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3152' + KB 26' @ 3178.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	9H	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 Draft 1	Offset TVD Reference:	Reference Datum

Offset Design													Offset Site Error: 0.00 usft
Lone Tree Draw Offsets - Lone Tree Draw 13 State #3H - OH - OH													Offset Well Error: 0.00 usft
Survey Program: 100-NS-GYRO-MS, 4452-MWD-ISCWSA, 9564-Project													
Reference		Offset		Semi Major Axis		Highside Tooface (')	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)			
8,600.00	7,795.90	5,995.00	4,938.69	25.28	24.23	48.14	-1,104.01	-3,250.32	4,287.87	4,247.42	40.45	106.008	
8,700.00	7,796.19	6,060.36	4,939.99	26.65	25.26	48.13	-1,169.36	-3,250.55	4,283.27	4,240.96	42.30	101.249	
8,800.00	7,796.47	6,090.00	4,940.49	28.07	25.73	48.12	-1,198.99	-3,250.92	4,279.87	4,236.09	43.77	97.771	
8,900.00	7,796.75	6,157.64	4,941.42	29.54	26.80	48.11	-1,266.60	-3,252.68	4,277.46	4,231.71	45.75	93.500	
9,000.00	7,797.04	6,394.77	4,946.91	31.04	30.55	48.13	-1,503.50	-3,260.85	4,275.82	4,225.97	49.84	85.786	
9,100.00	7,797.32	6,469.00	4,949.28	32.57	31.76	48.12	-1,577.68	-3,262.07	4,271.29	4,219.31	51.98	82.171	
9,200.00	7,797.61	6,600.33	4,953.56	34.13	33.93	48.12	-1,708.94	-3,263.66	4,266.34	4,211.47	54.87	77.755	
9,300.00	7,797.89	6,658.00	4,955.29	35.72	34.89	48.11	-1,766.57	-3,264.34	4,261.70	4,204.85	56.85	74.963	
9,400.00	7,798.18	6,753.00	4,957.61	37.32	36.49	48.10	-1,861.53	-3,265.92	4,257.71	4,198.36	59.34	71.746	
9,500.00	7,798.46	6,880.01	4,961.25	38.95	38.61	48.10	-1,888.47	-3,267.76	4,253.21	4,190.96	62.25	68.329	
9,600.00	7,798.75	6,942.00	4,962.22	40.59	39.64	48.08	-2,050.45	-3,268.27	4,248.15	4,184.84	64.32	66.064	
9,700.00	7,799.03	7,036.00	4,962.68	42.25	41.21	48.04	-2,144.45	-3,268.80	4,245.64	4,178.84	66.81	63.553	
9,800.00	7,799.32	7,131.00	4,962.91	43.91	42.81	48.00	-2,239.45	-3,269.21	4,242.20	4,172.89	69.31	61.203	
9,900.00	7,799.60	7,201.95	4,962.90	45.59	44.02	47.97	-2,310.40	-3,269.72	4,239.15	4,167.61	71.53	59.260	
10,000.00	7,799.88	7,309.60	4,962.83	47.28	45.82	47.93	-2,418.04	-3,271.01	4,236.50	4,162.29	74.21	57.085	
10,041.96	7,800.00	7,349.03	4,962.92	48.00	46.48	47.92	-2,457.46	-3,271.47	4,235.29	4,160.02	75.27	56.270	
10,100.00	7,800.06	7,399.54	4,963.01	48.94	47.32	47.87	-2,507.97	-3,272.13	4,233.20	4,156.60	76.60	55.263	
10,152.80	7,799.82	7,472.91	4,963.15	49.77	48.56	47.80	-2,581.33	-3,273.02	4,230.40	4,152.31	78.10	54.169	
10,200.00	7,799.71	7,536.89	4,963.38	50.54	49.63	47.76	-2,645.31	-3,273.41	4,227.24	4,147.75	79.49	53.179	
10,300.00	7,799.27	7,631.90	4,963.93	52.24	51.22	47.70	-2,740.32	-3,273.87	4,220.34	4,138.35	81.99	51.474	
10,400.00	7,798.83	7,699.00	4,963.78	53.96	52.35	47.65	-2,807.42	-3,274.21	4,214.00	4,129.85	84.15	50.076	
10,500.00	7,798.40	7,765.60	4,963.29	55.68	53.49	47.60	-2,874.02	-3,274.94	4,208.44	4,122.12	86.32	48.754	
10,600.00	7,797.96	7,851.36	4,962.67	57.40	54.93	47.54	-2,959.75	-3,276.71	4,203.58	4,114.85	88.73	47.376	
10,700.00	7,797.52	7,948.07	4,961.98	59.13	56.56	47.48	-3,056.44	-3,278.78	4,198.78	4,107.52	91.27	46.006	
10,800.00	7,797.08	8,072.74	4,961.36	60.86	58.65	47.40	-3,181.08	-3,281.51	4,193.91	4,099.76	94.14	44.548	
10,900.00	7,796.64	8,240.66	4,961.53	62.60	61.51	47.28	-3,348.98	-3,282.92	4,187.50	4,089.95	97.55	42.925	
11,000.00	7,796.20	8,338.66	4,961.84	64.34	63.15	47.21	-3,444.98	-3,283.04	4,180.54	4,080.46	100.08	41.770	
11,100.00	7,795.77	8,438.46	4,962.13	66.09	64.80	47.14	-3,546.78	-3,283.33	4,173.73	4,071.05	102.69	40.645	
11,200.00	7,795.33	8,494.58	4,962.27	67.84	65.86	47.10	-3,602.90	-3,283.63	4,167.24	4,062.50	104.74	39.788	
11,300.00	7,794.89	8,556.00	4,962.04	69.59	66.91	47.06	-3,664.31	-3,285.06	4,162.19	4,055.33	106.86	38.950	
11,400.00	7,794.45	8,624.06	4,961.54	71.35	68.07	47.02	-3,732.34	-3,287.21	4,158.02	4,048.95	109.07	38.122	
11,500.00	7,794.01	8,733.68	4,960.78	73.11	69.84	46.96	-3,841.91	-3,290.27	4,153.73	4,041.94	111.79	37.158	
11,600.00	7,793.57	8,800.29	4,960.27	74.87	71.08	46.92	-3,908.49	-3,292.30	4,149.70	4,035.72	113.98	36.408	
11,700.00	7,793.14	8,864.46	4,959.51	76.63	72.17	46.88	-3,972.60	-3,294.81	4,146.57	4,030.42	116.15	35.701	
11,800.00	7,792.70	8,933.00	4,958.40	78.40	73.35	46.85	-4,041.06	-3,297.99	4,144.25	4,025.88	118.38	35.009	
11,900.00	7,792.26	9,141.71	4,957.29	80.16	76.93	46.74	-4,249.60	-3,306.04	4,140.27	4,017.93	122.34	33.841	
12,000.00	7,791.82	9,229.11	4,957.15	81.93	78.44	46.70	-4,336.95	-3,308.75	4,135.86	4,011.06	124.80	33.140	
12,100.00	7,791.38	9,330.35	4,956.75	83.71	80.16	46.64	-4,438.15	-3,311.84	4,131.59	4,004.18	127.41	32.428	
12,187.37	7,791.00	9,420.29	4,956.23	85.25	81.69	46.59	-4,528.05	-3,314.33	4,127.77	3,998.08	129.69	31.828 SF	

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

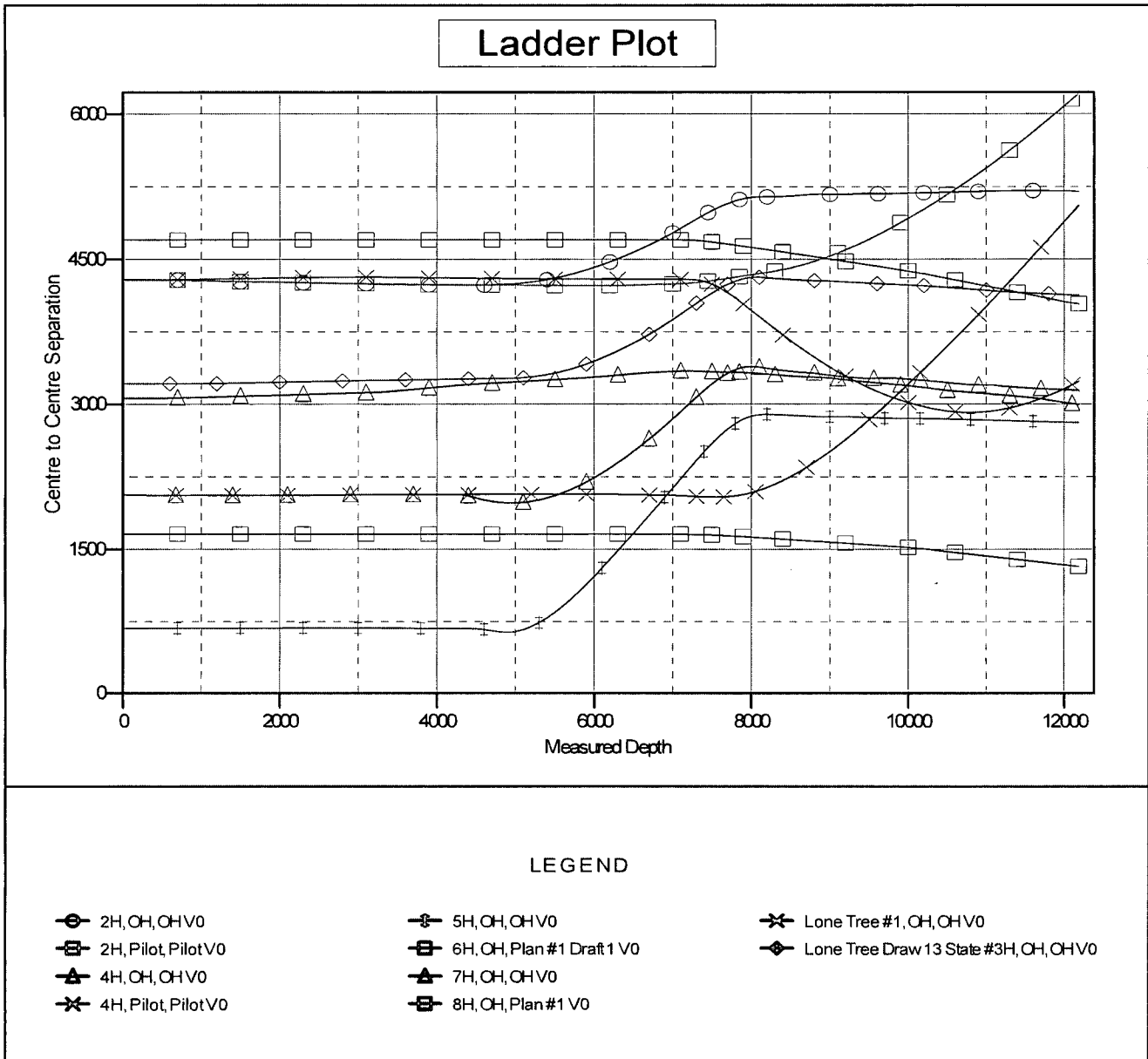
Leam Drilling Systems LLC

Anticollision Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 9H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3152' + KB 26' @ 3178.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3152' + KB 26' @ 3178.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	9H	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 Draft 1	Offset TVD Reference:	Reference Datum

Reference Depths are relative to GE 3152' + KB 26' @ 3178.00usft (Or
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: 9H
Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Grid Convergence at Surface is: 0.11°



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

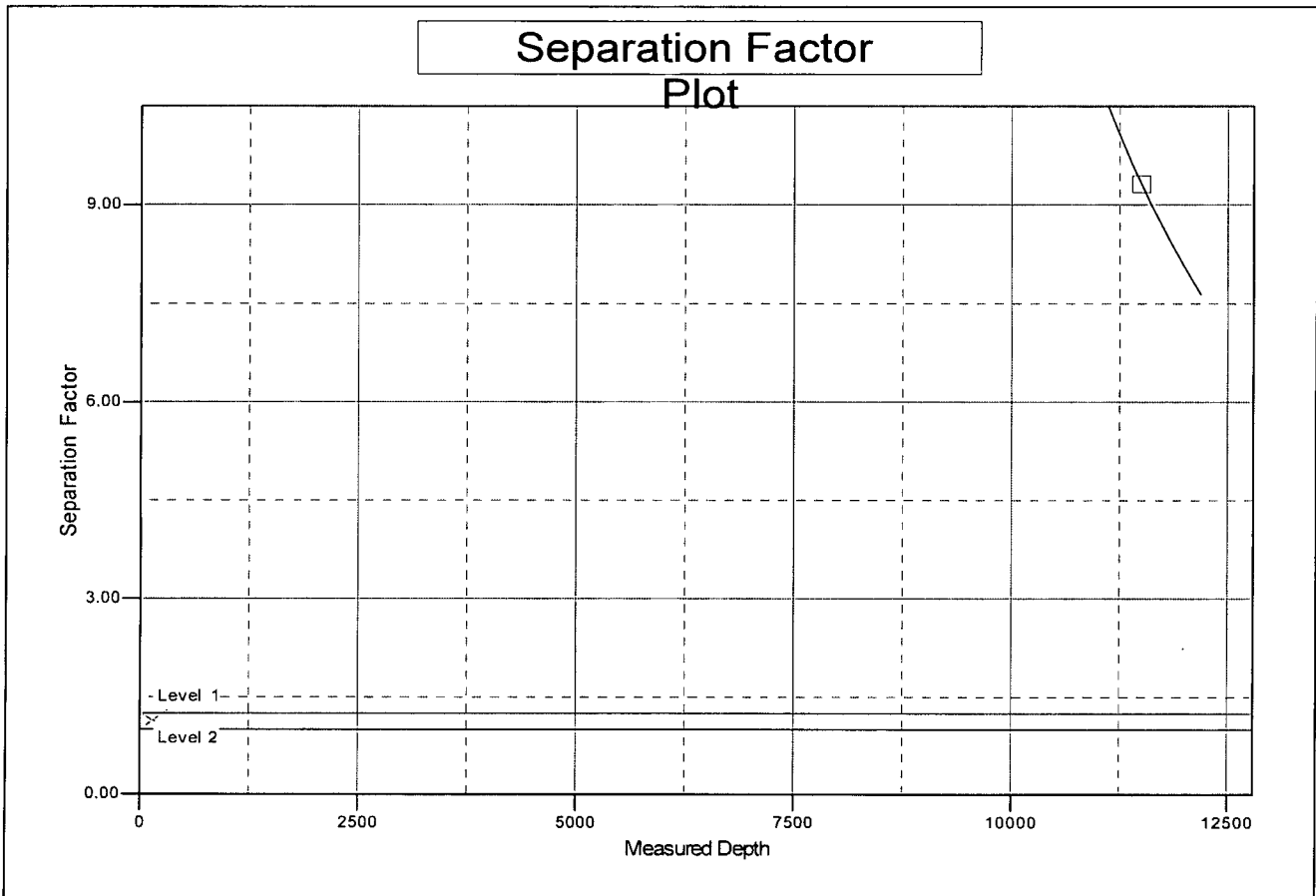
Leam Drilling Systems LLC

Anticollision Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 9H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3152' + KB 26' @ 3178.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3152' + KB 26' @ 3178.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	9H	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 Draft 1	Offset TVD Reference:	Reference Datum

Reference Depths are relative to GE 3152' + KB 26' @ 3178.00usft (Or
 Offset Depths are relative to Offset Datum
 Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: 9H
 Coordinate System is US State Plane 1983, New Mexico Eastern Zone
 Grid Convergence at Surface is: 0.11°



LEGEND

- | | | |
|----------------------|-----------------------------|---|
| ⊖ 2H, OH, OHV0 | ⊖ 5H, OH, OHV0 | ⊖ Lone Tree #1, OH, OHV0 |
| ⊖ 2H, Pilot, PilotV0 | ⊖ 6H, OH, Plan #1 Draft1 V0 | ⊖ Lone Tree Draw 13 State #3H, OH, OHV0 |
| ⊖ 4H, OH, OHV0 | ⊖ 7H, OH, OHV0 | |
| ⊖ 4H, Pilot, PilotV0 | ⊖ 8H, OH, Plan #1 V0 | |

4600.00	0.00	0.00	4600.00	0.00	0.00	0.00	0.00	0.00	0.00
4700.00	0.00	0.00	4700.00	0.00	0.00	0.00	0.00	0.00	0.00
4800.00	0.00	0.00	4800.00	0.00	0.00	0.00	0.00	0.00	0.00
4900.00	0.00	0.00	4900.00	0.00	0.00	0.00	0.00	0.00	0.00
5000.00	0.00	0.00	5000.00	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	0.00
5200.00	0.00	0.00	5200.00	0.00	0.00	0.00	0.00	0.00	0.00
5300.00	0.00	0.00	5300.00	0.00	0.00	0.00	0.00	0.00	0.00
5400.00	0.00	0.00	5400.00	0.00	0.00	0.00	0.00	0.00	0.00
5500.00	0.00	0.00	5500.00	0.00	0.00	0.00	0.00	0.00	0.00
5600.00	0.00	0.00	5600.00	0.00	0.00	0.00	0.00	0.00	0.00
5700.00	0.00	0.00	5700.00	0.00	0.00	0.00	0.00	0.00	0.00
5800.00	0.00	0.00	5800.00	0.00	0.00	0.00	0.00	0.00	0.00
5900.00	0.00	0.00	5900.00	0.00	0.00	0.00	0.00	0.00	0.00
6000.00	0.00	0.00	6000.00	0.00	0.00	0.00	0.00	0.00	0.00
6100.00	0.00	0.00	6100.00	0.00	0.00	0.00	0.00	0.00	0.00
6200.00	0.00	0.00	6200.00	0.00	0.00	0.00	0.00	0.00	0.00
6300.00	0.00	0.00	6300.00	0.00	0.00	0.00	0.00	0.00	0.00
6400.00	0.00	0.00	6400.00	0.00	0.00	0.00	0.00	0.00	0.00
6500.00	0.00	0.00	6500.00	0.00	0.00	0.00	0.00	0.00	0.00
6600.00	0.00	0.00	6600.00	0.00	0.00	0.00	0.00	0.00	0.00
6700.00	0.00	0.00	6700.00	0.00	0.00	0.00	0.00	0.00	0.00
6800.00	0.00	0.00	6800.00	0.00	0.00	0.00	0.00	0.00	0.00
6900.00	0.00	0.00	6900.00	0.00	0.00	0.00	0.00	0.00	0.00
7000.00	0.00	0.00	7000.00	0.00	0.00	0.00	0.00	0.00	0.00
7100.00	0.00	0.00	7100.00	0.00	0.00	0.00	0.00	0.00	0.00
7200.00	0.00	0.00	7200.00	0.00	0.00	0.00	0.00	0.00	0.00
7221.58	0.00	0.00	7221.58	0.00	0.00	0.00	0.00	0.00	0.00
7250.00	2.84	182.92	7249.99	-0.70	-0.04	10.00	10.00	0.00	0.70
7300.00	7.84	182.92	7299.76	-5.35	-0.27	10.00	10.00	0.00	5.36
7350.00	12.84	182.92	7348.93	-14.31	-0.73	10.00	10.00	0.00	14.33
7400.00	17.84	182.92	7397.13	-27.52	-1.40	10.00	10.00	0.00	27.55
7450.00	22.84	182.92	7444.00	-44.87	-2.29	10.00	10.00	0.00	44.93
7500.00	27.84	182.92	7489.17	-66.24	-3.38	10.00	10.00	0.00	66.32
7550.00	32.84	182.92	7532.31	-91.46	-4.67	10.00	10.00	0.00	91.56
7600.00	37.84	182.92	7573.08	-120.33	-6.14	10.00	10.00	0.00	120.47
7650.00	42.84	182.92	7611.18	-152.65	-7.79	10.00	10.00	0.00	152.82
7700.00	47.84	182.92	7646.31	-188.16	-9.60	10.00	10.00	0.00	188.37
7750.00	52.84	182.92	7678.21	-226.59	-11.56	10.00	10.00	0.00	226.85
7800.00	57.84	182.92	7706.64	-267.65	-13.65	10.00	10.00	0.00	267.96
7850.00	62.84	182.92	7731.37	-311.03	-15.86	10.00	10.00	0.00	311.39
7900.00	67.84	182.92	7752.22	-356.40	-18.18	10.00	10.00	0.00	356.81
7950.00	72.84	182.92	7769.04	-403.41	-20.58	10.00	10.00	0.00	403.87
8000.00	77.84	182.92	7781.69	-451.70	-23.04	10.00	10.00	0.00	452.22
8050.00	82.84	182.92	7790.07	-500.91	-25.55	10.00	10.00	0.00	501.49
8100.00	87.84	182.92	7794.13	-550.67	-28.09	10.00	10.00	0.00	551.30
8119.95	89.84	182.92	7794.54	-570.59	-29.10	10.00	10.00	0.00	571.24

8200.00	89.84	182.92	7794.76	-650.53	-33.18	0.00	0.00	0.00	651.28
8300.00	89.84	182.92	7795.05	-750.40	-38.28	0.00	0.00	0.00	751.27
8400.00	89.84	182.92	7795.33	-850.27	-43.37	0.00	0.00	0.00	851.25
8500.00	89.84	182.92	7795.62	-950.14	-48.46	0.00	0.00	0.00	951.24
8600.00	89.84	182.92	7795.90	-1050.01	-53.56	0.00	0.00	0.00	1051.22
8700.00	89.84	182.92	7796.19	-1149.88	-58.65	0.00	0.00	0.00	1151.21
8800.00	89.84	182.92	7796.47	-1249.75	-63.75	0.00	0.00	0.00	1251.19
8900.00	89.84	182.92	7796.75	-1349.62	-68.84	0.00	0.00	0.00	1351.18
9000.00	89.84	182.92	7797.04	-1449.49	-73.94	0.00	0.00	0.00	1451.16
9100.00	89.84	182.92	7797.32	-1549.36	-79.03	0.00	0.00	0.00	1551.15
9200.00	89.84	182.92	7797.61	-1649.23	-84.12	0.00	0.00	0.00	1651.13
9300.00	89.84	182.92	7797.89	-1749.10	-89.22	0.00	0.00	0.00	1751.12
9400.00	89.84	182.92	7798.18	-1848.97	-94.31	0.00	0.00	0.00	1851.10
9500.00	89.84	182.92	7798.46	-1948.84	-99.41	0.00	0.00	0.00	1951.09
9600.00	89.84	182.92	7798.75	-2048.71	-104.50	0.00	0.00	0.00	2051.07
9700.00	89.84	182.92	7799.03	-2148.58	-109.59	0.00	0.00	0.00	2151.06
9800.00	89.84	182.92	7799.32	-2248.45	-114.69	0.00	0.00	0.00	2251.04
9900.00	89.84	182.92	7799.60	-2348.32	-119.78	0.00	0.00	0.00	2351.03
10000.00	89.84	182.92	7799.88	-2448.19	-124.88	0.00	0.00	0.00	2451.01
10041.96	89.84	182.92	7800.00	-2490.09	-127.01	0.00	0.00	0.00	2492.97
10100.00	90.05	184.06	7800.06	-2548.02	-130.55	2.00	0.37	1.96	2551.00
10152.80	90.25	185.10	7799.92	-2600.65	-134.76	2.00	0.37	1.96	2603.79
10200.00	90.25	185.10	7799.71	-2647.67	-138.96	0.00	0.00	0.00	2650.99
10300.00	90.25	185.10	7799.27	-2747.27	-147.84	0.00	0.00	0.00	2750.96
10400.00	90.25	185.10	7798.83	-2846.87	-156.73	0.00	0.00	0.00	2850.94
10500.00	90.25	185.10	7798.40	-2946.48	-165.61	0.00	0.00	0.00	2950.92
10600.00	90.25	185.10	7797.96	-3046.08	-174.50	0.00	0.00	0.00	3050.90
10700.00	90.25	185.10	7797.52	-3145.69	-183.38	0.00	0.00	0.00	3150.87
10800.00	90.25	185.10	7797.08	-3245.29	-192.27	0.00	0.00	0.00	3250.85
10900.00	90.25	185.10	7796.64	-3344.89	-201.15	0.00	0.00	0.00	3350.83
11000.00	90.25	185.10	7796.20	-3444.50	-210.04	0.00	0.00	0.00	3450.80
11100.00	90.25	185.10	7795.77	-3544.10	-218.92	0.00	0.00	0.00	3550.78
11200.00	90.25	185.10	7795.33	-3643.70	-227.81	0.00	0.00	0.00	3650.76
11300.00	90.25	185.10	7794.89	-3743.31	-236.69	0.00	0.00	0.00	3750.74
11400.00	90.25	185.10	7794.45	-3842.91	-245.58	0.00	0.00	0.00	3850.71
11500.00	90.25	185.10	7794.01	-3942.51	-254.47	0.00	0.00	0.00	3950.69
11600.00	90.25	185.10	7793.57	-4042.12	-263.35	0.00	0.00	0.00	4050.67
11700.00	90.25	185.10	7793.14	-4141.72	-272.24	0.00	0.00	0.00	4150.65
11800.00	90.25	185.10	7792.70	-4241.32	-281.12	0.00	0.00	0.00	4250.62
11900.00	90.25	185.10	7792.26	-4340.93	-290.01	0.00	0.00	0.00	4350.60
12000.00	90.25	185.10	7791.82	-4440.53	-298.89	0.00	0.00	0.00	4450.58
12100.00	90.25	185.10	7791.38	-4540.13	-307.78	0.00	0.00	0.00	4550.55
12187.37	90.25	185.10	7791.00	-4627.16	-315.54	0.00	0.00	0.00	4637.90