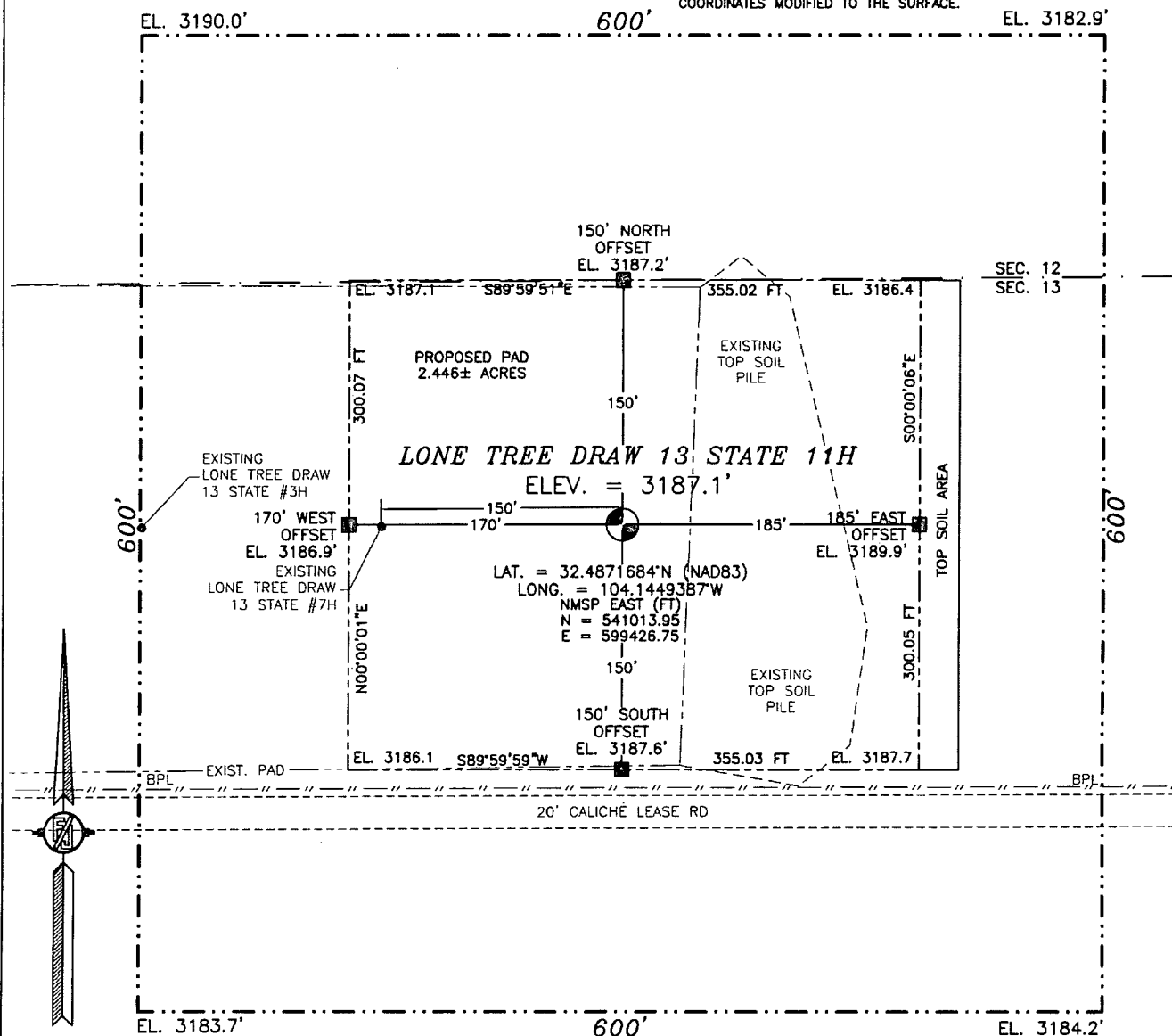


N89°39'54"E 2683.58 FT		N89°38'05"E 2685.30 FT	
NW CORNER SEC. 13 LAT. = 32.4875567°N LONG. = 104.1518461°W NMSP EAST (FT) N = 541151.55 E = 597296.67	SURFACE LOCATION  LONE TREE DRAW 13 STATE 11H ELEV. = 3187.1' LAT. = 32.4871684°N (NAD83) LONG. = 104.1449387°W NMSP EAST (FT) N = 541013.95 E = 599426.75	NE CORNER SEC. 13 LAT. = 32.4876206°N LONG. = 104.1344381°W NMSP EAST (FT) N = 541184.34 E = 602664.16	
W/4 CORNER SEC. 13 LAT. = 32.4802575°N LONG. = 104.1518272°W NMSP EAST (FT) N = 538496.13 E = 597307.02	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. BOTTOM OF HOLE LAT. = 32.4739546°N LONG. = 104.1448212°W NMSP EAST (FT) N = 536206.88 E = 599471.46	E/4 CORNER SEC. 13 LAT. = 32.4803887°N LONG. = 104.1344261°W NMSP EAST (FT) N = 538553.42 E = 602672.77	
SW CORNER SEC. 13 LAT. = 32.4729692°N LONG. = 104.1517858°W NMSP EAST (FT) N = 535844.67 E = 597324.30	S/4 CORNER SEC. 13 LAT. = 32.4730669°N LONG. = 104.1431032°W NMSP EAST (FT) N = 535884.89 E = 600001.85	SE CORNER SEC. 13 LAT. = 32.4731637°N LONG. = 104.1344163°W NMSP EAST (FT) N = 535924.99 E = 602680.71	

S89°08'22"W 2678.50 FT S89°08'32"W 2679.80 FT

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

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 CR 600 (RAINS ROAD) AND CR 237 (ANGEL RANCH ROAD) AND CALICHE LEASE ROAD GO NORTHEAST ON CALICHE LEASE ROAD 0.1 MILES, TURN RIGHT GO SOUTHEAST 0.6 MILES, BEND LEFT GO EAST 1.0 MILES TURN RIGHT AND GO SOUTH 0.6 MILES TURN LEFT GO EAST 0.7 MILES TURN LEFT GO NORTH 0.15 MILES TURN RIGHT GO EAST 0.31 MILES AND LOCATION IS ON LEFT (NORTH) ABOUT 150 FT.

**DEVON ENERGY PRODUCTION COMPANY, L.P.
LONE TREE DRAW 13 STATE 11H
LOCATED 150 FT. FROM THE NORTH LINE
AND 2130 FT. FROM THE WEST LINE OF
SECTION 13, TOWNSHIP 21 SOUTH,
RANGE 27 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO**

JANUARY 10, 2014

SURVEY NO. 2500

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

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

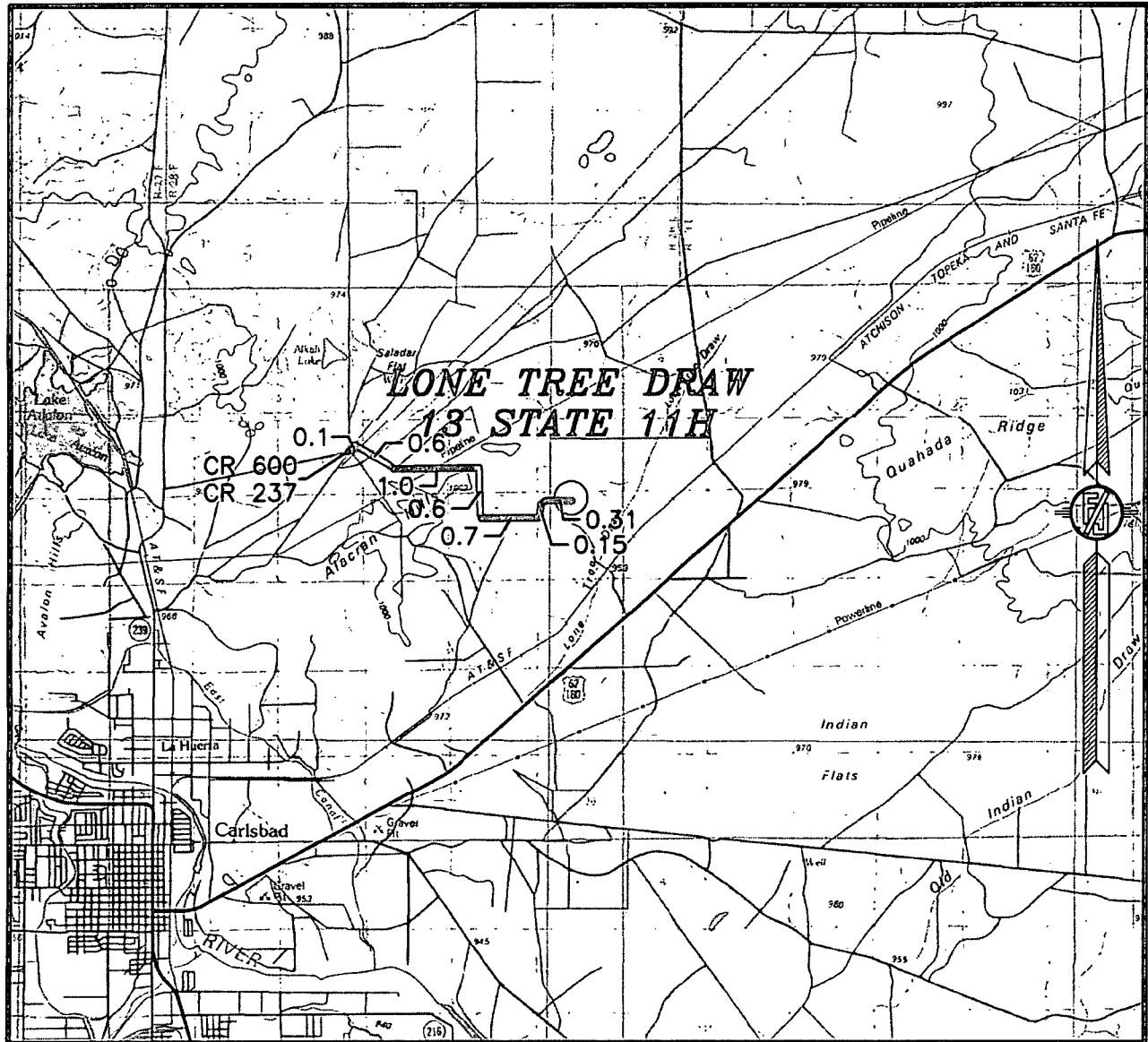
NOT TO SCALE

DEVON ENERGY PRODUCTION COMPANY, L.P.
LONE TREE DRAW 13 STATE 11H
LOCATED 150 FT. FROM THE NORTH LINE
AND 2130 FT. FROM THE WEST LINE OF
SECTION 13, TOWNSHIP 21 SOUTH,
RANGE 27 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

JANUARY 10, 2014

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO SURVEY NO. 2500

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 CR 600 (RAINS ROAD) AND CR 237 (ANGEL RANCH ROAD) AND CALICHE LEASE ROAD GO NORTHEAST ON CALICHE LEASE ROAD 0.1 MILES, TURN RIGHT GO SOUTHEAST 0.6 MILES, BEND LEFT GO EAST 1.0 MILES TURN RIGHT AND GO SOUTH 0.6 MILES TURN LEFT GO EAST 0.7 MILES TURN LEFT GO NORTH 0.15 MILES TURN RIGHT GO EAST 0.31 MILES AND LOCATION IS ON LEFT (NORTH) ABOUT 150 FT.

DEVON ENERGY PRODUCTION COMPANY, L.P.

LONE TREE DRAW 13 STATE 11H

LOCATED 150 FT. FROM THE NORTH LINE

AND 2130 FT. FROM THE WEST LINE OF

SECTION 13, TOWNSHIP 21 SOUTH,

RANGE 27 EAST, N.M.P.M.

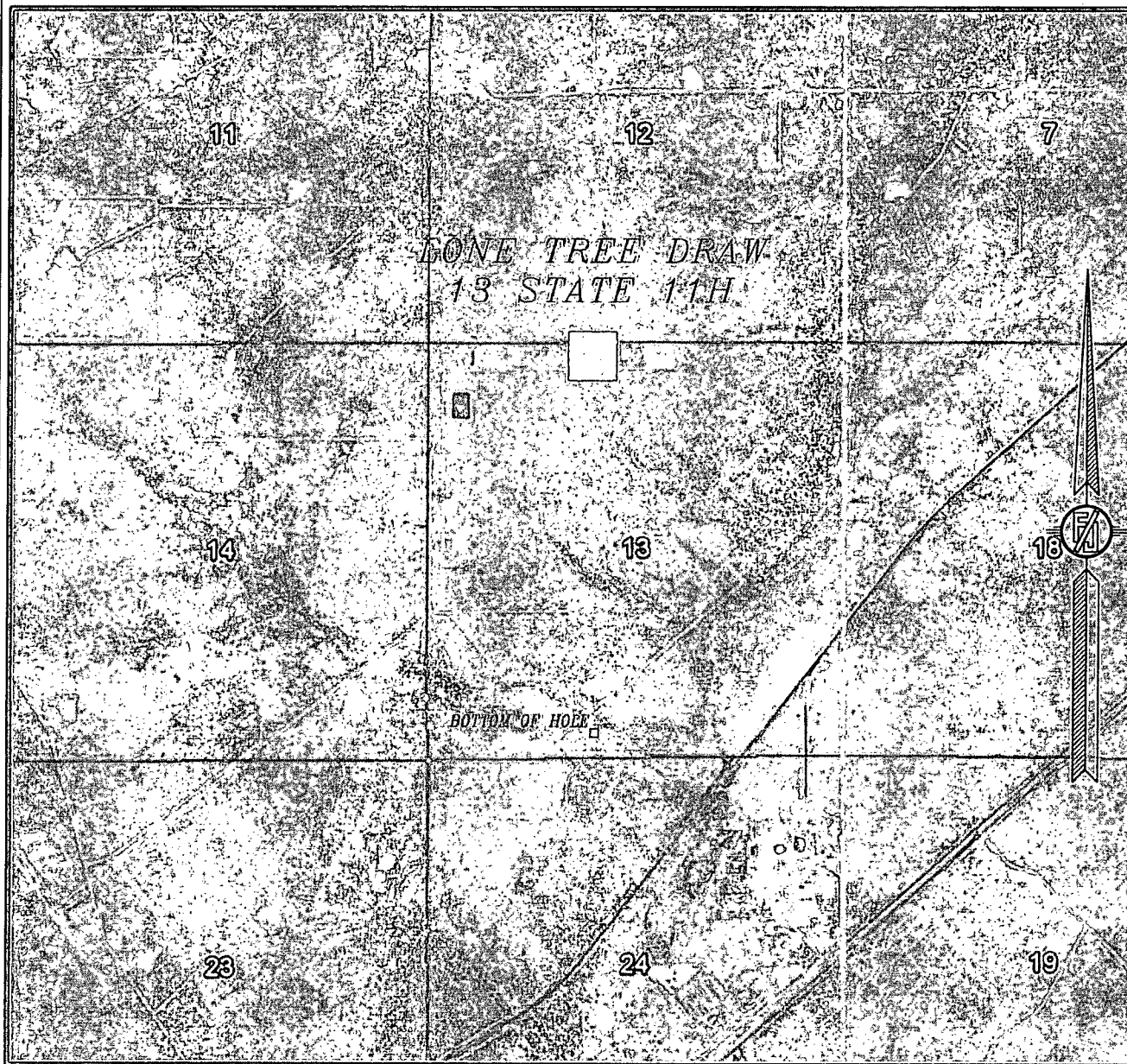
EDDY COUNTY, STATE OF NEW MEXICO

JANUARY 10, 2014

SURVEY NO. 2500

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 11H
LOCATED 150 FT. FROM THE NORTH LINE
AND 2130 FT. FROM THE WEST LINE OF
SECTION 13, TOWNSHIP 21 SOUTH,
RANGE 27 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

JANUARY 10, 2014

SURVEY NO. 2500

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

LONE TREE DRAW 13 STATE 11H – APD DRILLING PLAN

1. 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.

2. 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	5.74	12.90	37.57
12-1/4"	300-2800'	9-5/8"	0-2800'	36	LTC	J-55	1.39	2.42	4.49
8-3/4"	2800-11320'	5-1/2"	0-11320'	17	BTC	P-110	2.31	3.29	4.95

Casing Notes:

- All casing is new and API approved

Maximum Lateral TVD: 6756'

LONE TREE DRAW 13 STATE 11H – APD DRILLING PLAN

3. Proposed mud Circulations System:

Depth	Mud Weight	Viscosity	Fluid Loss	Type System
0-300'	8.4-9.0	30-34	N/C	FW
300-2800'	9.8-10.0	28-32	N/C	Brine
2800-11320'	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.

4. 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	370	13.5	9.07	1.72	Lead	Class C Cement + 0.125 lbs/sack Poly-E-Flake + 4% bwoc Bentonite + 2% bwoc CaCl ₂ + 70.8% Fresh Water
	180	14.8	6.32	1.33	Tail	Class C Cement + 63.5% Fresh Water
9-5/8" Intermediate	810	12.9	9.81	1.85	Lead	(50:50) Class C Cement: Poz (Fly Ash): 10% BWOC Bentonite + 8 lb/sk Sodium Chloride + 0.125 lbs/sack Poly-E-Flake + 70.9 % Fresh Water
	540	14.8	6.32	1.33	Tail	Class C Cement + 63.5% Fresh Water
5-1/2" Production Casing	670	11.9	12.99	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
	260	12.9	10.1	1.96	Lead	(65:35) Class H Cement: Poz (Fly Ash) + 6% BWOC Bentonite + 0.3% BWOC HR-601 + 0.125 lbs/sack Poly-E-Flake + 74.1 % Fresh Water
	780	14.5	5.48	1.22	Tail	(50:50) Class H Cement: Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.25% bwoc CFR-3 + 0.1% bwoc HR-601 + 2% bwoc Bentonite + 58.8% Fresh Water

TOC for all Strings:

Surface @ 0'
Intermediate @ 0'
Production @ 2300'

LONE TREE DRAW 13 STATE 11H – APD DRILLING PLAN

Notes:

- Cement volumes Surface 100%, Intermediate 50%, Production based on at least 25% excess
- Actual cement volumes will be adjusted based on fluid caliper and caliper log data

DEVON ENERGY

Project: Eddy County, NM (NAD-83)
Site: Lone Tree Draw "13" State
Well: 11H
Wellbore: OH
Design: Plan #1 Draft1



Azimuths to Grid North
True North: -0.10°
Magnetic North: 7.56°

Magnetic Field
Strength: 48419.7nT
Dip Angle: 60.25°
Date: 02/18/2014
Model: BGGM2013

devon

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

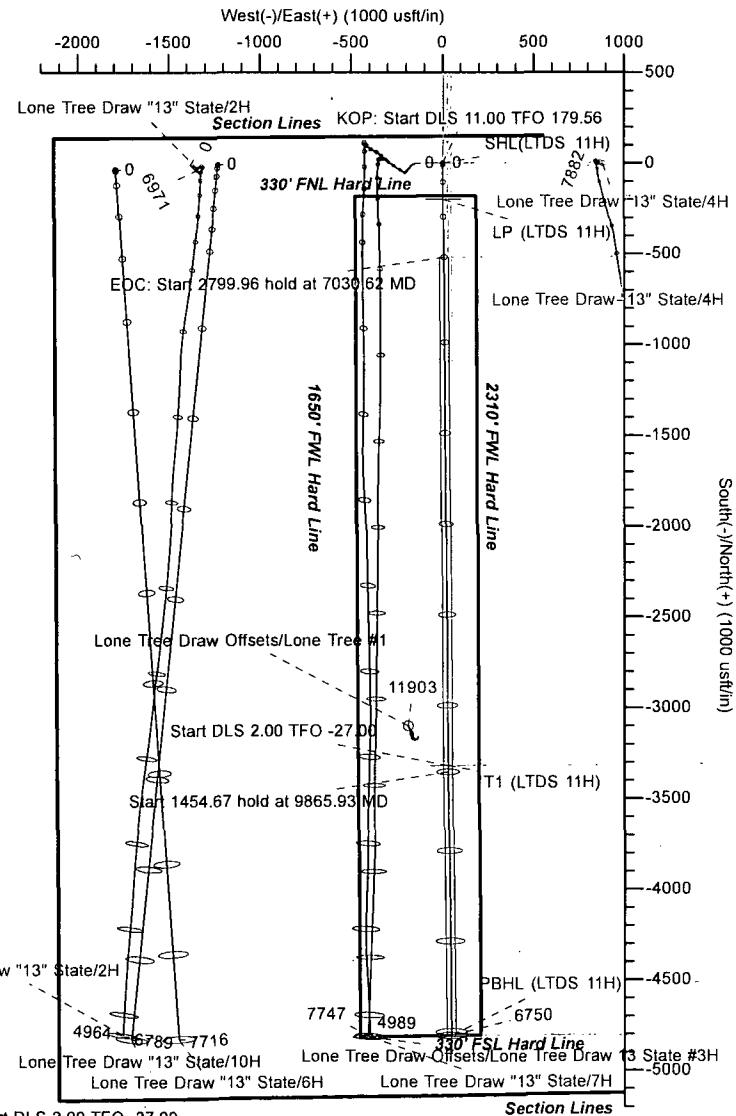
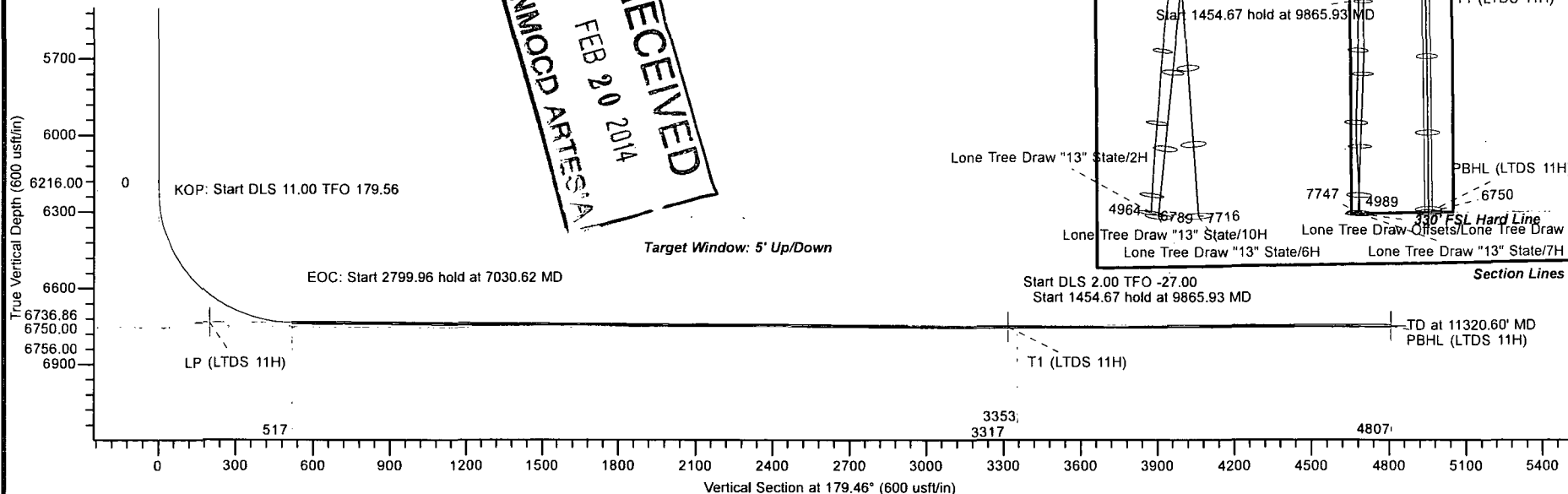
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
SHL(LTDS 11H)	0.00	0.00	0.00	541013.95	599426.75	32° 29' 13.806 N	104° 8' 41.779 W
LP (LTDS 11H)	6735.00	-199.94	3.25	540814.01	599430.00	32° 29' 11.828 N	104° 8' 41.745 W
PBHL (LTDS 11H)	6750.00	-4806.98	45.23	536206.97	599471.98	32° 28' 26.237 N	104° 8' 41.350 W
T1 (LTDS 11H)	6756.00	-3317.11	25.52	537696.84	599452.27	32° 28' 40.981 N	104° 8' 41.550 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	6216.00	0.00	0.00	6216.00	0.00	0.00	0.00	0.00	0.00	KOP: Start DLS 11.00 TFO 179.56
3	7030.62	89.61	179.56	6736.86	-517.29	3.98	11.00	179.56	517.31	EOC: Start 2799.96 hold at 7030.62 MD
4	9830.58	89.61	179.56	6756.00	-3317.11	25.52	0.00	0.00	3317.20	Start DLS 2.00 TFO -27.00
5	9865.93	90.24	179.24	6756.05	-3352.45	25.90	2.00	-27.00	3352.55	Start 1454.67 hold at 9865.93 MD
6	11320.60	90.24	179.24	6750.00	-4806.98	45.23	0.00	0.00	4807.19	TD at 11320.60' MD



Target Window: 5' Up/Down



LEAM DRILLING SYSTEMS LLC
2010 East Davis, Conroe, Texas 77301
Phone: 936/756-7577, Fax 936/756-7595

Plan: Plan #1 Draft1 (11H /OH)
Lone Tree Draw "13" State
Created By: Heber Claros Date: 10:42, February 18 2014
Approved: _____ Date: _____

DEVON ENERGY

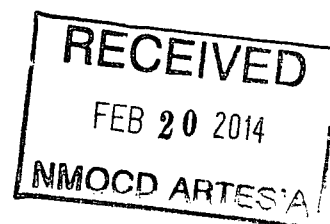
Eddy County, NM (NAD-83)
Lone Tree Draw "13" State
11H

OH

Plan: Plan #1 Draft1

Standard Planning Report

18 February, 2014



Leam Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 11H
Company:	DEVON ENERGY	TVD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Project:	Eddy County, NM (NAD-83)	MD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Site:	Lone Tree Draw "13" State	North Reference:	Grid
Well:	11H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1 Draft1		

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
From:	Map	Easting:	598,047.12 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 29' 13.750 N
		Longitude:	104° 8' 57.887 W
		Grid Convergence:	0.10 °

Well	11H					
Well Position	+N/-S	8.08 usft	Northing:	541,013.95 usft	Latitude:	32° 29' 13.806 N
	+E/-W	1,379.63 usft	Easting:	599,426.75 usft	Longitude:	104° 8' 41.779 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	3,187.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2013	02/18/14	7.66	60.25	48,420

Design		Plan #1 Draft1		
Audit Notes:				
Version:		Phase:	PROTOTYPE	Tie On Depth: 0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	179.46

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	
6,216.00	0.00	0.00	6,216.00	0.00	0.00	0.00	0.00	0.00	0.00	
7,030.62	89.61	179.56	6,736.86	-517.29	3.98	11.00	11.00	22.04	179.56	
9,830.58	89.61	179.56	6,756.00	-3,317.11	25.52	0.00	0.00	0.00	0.00	T1 (LTDS 11H)
9,865.93	90.24	179.24	6,756.05	-3,352.45	25.90	2.00	1.78	-0.91	-27.00	
11,320.60	90.24	179.24	6,750.00	-4,806.98	45.23	0.00	0.00	0.00	0.00	PBHL (LTDS 11H)

Leam Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 11H
Company:	DEVON ENERGY	TVD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Project:	Eddy County, NM (NAD-83)	MD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Site:	Lone Tree Draw "13" State	North Reference:	Grid
Well:	11H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1 Draft1		

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)
6,216.00	0.00	0.00	6,216.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP: Start DLS 11.00 TFO 179.56									
6,250.00	3.74	179.56	6,249.98	-1.11	0.01	1.11	11.00	11.00	0.00
6,300.00	9.24	179.56	6,299.64	-6.76	0.05	6.76	11.00	11.00	0.00
6,350.00	14.74	179.56	6,348.53	-17.14	0.13	17.14	11.00	11.00	0.00
6,400.00	20.24	179.56	6,396.20	-32.16	0.25	32.16	11.00	11.00	0.00
6,450.00	25.74	179.56	6,442.21	-51.68	0.40	51.68	11.00	11.00	0.00
6,500.00	31.24	179.56	6,486.14	-75.52	0.58	75.52	11.00	11.00	0.00
6,550.00	36.74	179.56	6,527.58	-103.46	0.80	103.47	11.00	11.00	0.00
6,600.00	42.24	179.56	6,566.15	-135.25	1.04	135.25	11.00	11.00	0.00
6,650.00	47.74	179.56	6,601.50	-170.58	1.31	170.59	11.00	11.00	0.00
6,691.25	52.28	179.56	6,628.00	-202.18	1.56	202.18	11.00	11.00	0.00
1st BS UPR Sd									
6,700.00	53.24	179.56	6,633.30	-209.14	1.61	209.15	11.00	11.00	0.00
6,707.94	54.11	179.56	6,638.00	-215.54	1.66	215.55	11.00	11.00	0.00
1st Bone Sring Sand									
6,748.61	58.59	179.56	6,660.53	-249.38	1.92	249.39	11.00	11.00	0.00
LP (LTDS 11H)									
6,750.00	58.74	179.56	6,661.25	-250.57	1.93	250.58	11.00	11.00	0.00
6,784.14	62.50	179.56	6,678.00	-280.32	2.16	280.32	11.00	11.00	0.00
1st BS UPR Base									
6,800.00	64.24	179.56	6,685.11	-294.49	2.27	294.50	11.00	11.00	0.00
6,813.95	65.77	179.56	6,691.00	-307.13	2.36	307.14	11.00	11.00	0.00
1st BS MID Sd Top									
6,850.00	69.74	179.56	6,704.65	-340.49	2.62	340.50	11.00	11.00	0.00
6,900.00	75.24	179.56	6,719.68	-388.16	2.99	388.17	11.00	11.00	0.00
6,932.62	78.83	179.56	6,727.00	-419.94	3.23	419.95	11.00	11.00	0.00
1st BS MID Sd Base									
6,950.00	80.74	179.56	6,730.08	-437.04	3.36	437.05	11.00	11.00	0.00
7,000.00	86.24	179.56	6,735.75	-486.70	3.75	486.71	11.00	11.00	0.00
7,030.62	89.61	179.56	6,736.86	-517.29	3.98	517.31	11.00	11.00	0.00
EOC: Start 2799.96 hold at 7030.62 MD									
7,100.00	89.61	179.56	6,737.33	-586.67	4.51	586.69	0.00	0.00	0.00
7,200.00	89.61	179.56	6,738.02	-686.66	5.28	686.68	0.00	0.00	0.00
7,300.00	89.61	179.56	6,738.70	-786.66	6.05	786.68	0.00	0.00	0.00
7,400.00	89.61	179.56	6,739.38	-886.65	6.82	886.68	0.00	0.00	0.00
7,500.00	89.61	179.56	6,740.07	-986.65	7.59	986.68	0.00	0.00	0.00
7,600.00	89.61	179.56	6,740.75	-1,086.64	8.36	1,086.67	0.00	0.00	0.00
7,700.00	89.61	179.56	6,741.43	-1,186.64	9.13	1,186.67	0.00	0.00	0.00
7,800.00	89.61	179.56	6,742.12	-1,286.63	9.90	1,286.67	0.00	0.00	0.00
7,900.00	89.61	179.56	6,742.80	-1,386.63	10.67	1,386.67	0.00	0.00	0.00
8,000.00	89.61	179.56	6,743.49	-1,486.62	11.44	1,486.66	0.00	0.00	0.00
8,100.00	89.61	179.56	6,744.17	-1,586.62	12.21	1,586.66	0.00	0.00	0.00
8,200.00	89.61	179.56	6,744.85	-1,686.61	12.98	1,686.66	0.00	0.00	0.00
8,300.00	89.61	179.56	6,745.54	-1,786.61	13.75	1,786.66	0.00	0.00	0.00
8,400.00	89.61	179.56	6,746.22	-1,886.60	14.52	1,886.65	0.00	0.00	0.00
8,500.00	89.61	179.56	6,746.90	-1,986.60	15.29	1,986.65	0.00	0.00	0.00
8,600.00	89.61	179.56	6,747.59	-2,086.59	16.06	2,086.65	0.00	0.00	0.00
8,700.00	89.61	179.56	6,748.27	-2,186.59	16.83	2,186.65	0.00	0.00	0.00
8,800.00	89.61	179.56	6,748.95	-2,286.58	17.59	2,286.64	0.00	0.00	0.00
8,900.00	89.61	179.56	6,749.64	-2,386.57	18.36	2,386.64	0.00	0.00	0.00

Leam Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 11H
Company:	DEVON ENERGY	TVD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Project:	Eddy County, NM (NAD-83)	MD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Site:	Lone Tree Draw "13" State	North Reference:	Grid
Well:	11H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1 Draft1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,000.00	89.61	179.56	6,750.32	-2,486.57	19.13	2,486.64	0.00	0.00	0.00
9,100.00	89.61	179.56	6,751.01	-2,586.56	19.90	2,586.64	0.00	0.00	0.00
9,200.00	89.61	179.56	6,751.69	-2,686.56	20.67	2,686.63	0.00	0.00	0.00
9,300.00	89.61	179.56	6,752.37	-2,786.55	21.44	2,786.63	0.00	0.00	0.00
9,400.00	89.61	179.56	6,753.06	-2,886.55	22.21	2,886.63	0.00	0.00	0.00
9,500.00	89.61	179.56	6,753.74	-2,986.54	22.98	2,986.63	0.00	0.00	0.00
9,600.00	89.61	179.56	6,754.42	-3,086.54	23.75	3,086.62	0.00	0.00	0.00
9,700.00	89.61	179.56	6,755.11	-3,186.53	24.52	3,186.62	0.00	0.00	0.00
9,800.00	89.61	179.56	6,755.79	-3,286.53	25.29	3,286.62	0.00	0.00	0.00
9,830.58	89.61	179.56	6,756.00	-3,317.11	25.52	3,317.20	0.00	0.00	0.00
Start DLS 2.00 TFO -27.00 - T1 (LTDS 11H)									
9,865.93	90.24	179.24	6,756.05	-3,352.45	25.90	3,352.55	2.00	1.78	-0.91
Start 1454.67 hold at 9865.93 MD									
9,900.00	90.24	179.24	6,755.91	-3,386.52	26.35	3,386.62	0.00	0.00	0.00
10,000.00	90.24	179.24	6,755.49	-3,486.51	27.68	3,486.62	0.00	0.00	0.00
10,100.00	90.24	179.24	6,755.07	-3,586.50	29.01	3,586.61	0.00	0.00	0.00
10,200.00	90.24	179.24	6,754.66	-3,686.49	30.34	3,686.61	0.00	0.00	0.00
10,300.00	90.24	179.24	6,754.24	-3,786.48	31.67	3,786.61	0.00	0.00	0.00
10,400.00	90.24	179.24	6,753.83	-3,886.47	33.00	3,886.61	0.00	0.00	0.00
10,500.00	90.24	179.24	6,753.41	-3,986.46	34.33	3,986.61	0.00	0.00	0.00
10,600.00	90.24	179.24	6,753.00	-4,086.45	35.65	4,086.61	0.00	0.00	0.00
10,700.00	90.24	179.24	6,752.58	-4,186.44	36.98	4,186.60	0.00	0.00	0.00
10,800.00	90.24	179.24	6,752.16	-4,286.43	38.31	4,286.60	0.00	0.00	0.00
10,900.00	90.24	179.24	6,751.75	-4,386.42	39.64	4,386.60	0.00	0.00	0.00
11,000.00	90.24	179.24	6,751.33	-4,486.41	40.97	4,486.60	0.00	0.00	0.00
11,100.00	90.24	179.24	6,750.92	-4,586.40	42.30	4,586.60	0.00	0.00	0.00
11,200.00	90.24	179.24	6,750.50	-4,686.39	43.63	4,686.60	0.00	0.00	0.00
11,300.00	90.24	179.24	6,750.09	-4,786.38	44.96	4,786.60	0.00	0.00	0.00
11,320.60	90.24	179.24	6,750.00	-4,806.98	45.23	4,807.19	0.00	0.00	0.00
TD at 11320.60' MD - PBHL (LTDS 11H)									

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SHL(LTDS 11H)	0.00	0.00	0.00	0.00	0.00	541,013.95	599,426.75	32° 29' 13.806 N	104° 8' 41.779 W
- hit/miss target									
- Shape									
- plan misses target center by 6216.00usft at 6216.00usft MD (6216.00 TVD, 0.00 N, 0.00 E)									
- Point									
LP (LTDS 11H)	0.00	0.00	6,735.00	-199.94	3.25	540,814.01	599,430.01	32° 29' 11.828 N	104° 8' 41.745 W
- plan misses target center by 89.40usft at 6748.61usft MD (6660.53 TVD, -249.38 N, 1.92 E)									
- Point									
PBHL (LTDS 11H)	-0.24	179.24	6,750.00	-4,806.98	45.23	536,206.97	599,471.99	32° 28' 26.237 N	104° 8' 41.350 W
- plan hits target center									
- Rectangle (sides W50.00 H1,489.99 D10.00)									
T1 (LTDS 11H)	0.39	179.56	6,756.00	-3,317.11	25.52	537,696.84	599,452.28	32° 28' 40.981 N	104° 8' 41.550 W
- plan hits target center									
- Rectangle (sides W50.00 H2,799.89 D10.00)									

Leam Drilling Systems LLC

Planning Report

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Project:	Eddy County, NM (NAD-83)	MD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Site:	Lone Tree Draw "13" State	North Reference:	Grid
Well:	11H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1 Draft1		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
0.00	0.00	Quaternary		0.01		
362.00	362.00	Salado		0.01		
492.00	492.00	Base Salt		0.01		
585.00	585.00	Tansil		0.01		
678.00	678.00	Yates		0.01		
812.00	812.00	Seven Rivers		0.01		
922.00	922.00	Capitan		0.01		
2,712.00	2,712.00	Base of Capitan		0.01		
2,775.00	2,775.00	Delaware		0.01		
5,448.00	5,448.00	Bone Spring Lime		0.01		
5,591.00	5,591.00	Avalon Sand		0.01		
6,691.25	6,628.00	1st BS UPR Sd		0.01		
6,707.94	6,638.00	1st Bone Spring Sand		0.01		
6,784.14	6,678.00	1st BS UPR Base		0.01		
6,813.95	6,691.00	1st BS MID Sd Top		0.01		
6,932.62	6,727.00	1st BS MID Sd Base		0.01		

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
6,216.00	6,216.00	0.00	0.00	KOP: Start DLS 11.00 TFO 179.56	
7,030.62	6,736.86	-517.29	3.98	EOC: Start 2799.96 hold at 7030.62 MD	
9,830.58	6,756.00	-3,317.11	25.52	Start DLS 2.00 TFO -27.00	
9,865.93	6,756.05	-3,352.45	25.90	Start 1454.67 hold at 9865.93 MD	
11,320.60	6,750.00	-4,806.98	45.23	TD at 11320.60' MD	

DEVON ENERGY

Eddy County, NM (NAD-83)

Lone Tree Draw "13" State

11H

OH

Plan #1 Draft1

Anticollision Report

18 February, 2014

Leam Drilling Systems LLC

Anticollision Report

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Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	11H	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 Draft1	Offset TVD Reference:	Reference Datum

Reference	Plan #1 Draft1
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria
Interpolation Method:	MD + Stations Interval 100.00usft
Depth Range:	0.00 to 11,320.60usft
Results Limited by:	Maximum center-center distance of 10,000.00 usft
Warning Levels Evaluated at:	2.00 Sigma
Error Model:	ISCWSA
Scan Method:	Closest Approach 3D
Error Surface:	Elliptical Conic
Casing Method:	Not applied

Survey Tool Program		Date: 02/18/14		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	11,320.60	Plan #1 Draft1 (OH)	LEAM MWD-ADJ	MWD - Standard

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Lone Tree Draw "13" State						
10H - OH - Plan #1 Draft 1	6,216.00	6,224.00	1,229.75	1,202.07	44.429	CC
10H - OH - Plan #1 Draft 1	6,300.00	6,307.64	1,229.78	1,201.77	43.901	ES
10H - OH - Plan #1 Draft 1	11,320.60	11,247.88	1,739.32	1,565.76	10.021	SF
13H - OH - Plan #1 Draft 2	11,316.42	11,298.36	2,309.05	2,135.99	13.342	CC
13H - OH - Plan #1 Draft 2	11,320.60	11,298.36	2,309.06	2,135.92	13.336	ES, SF
2H - OH - OH	4,396.62	4,403.58	1,324.75	1,304.56	65.628	CC
2H - OH - OH	4,400.00	4,406.32	1,324.75	1,304.56	65.603	ES
2H - OH - OH	11,320.60	9,454.22	2,535.14	2,404.29	19.374	SF
2H - Pilot - Pilot	6,039.41	6,046.30	1,316.48	1,289.76	49.277	CC
2H - Pilot - Pilot	6,100.00	6,103.13	1,316.57	1,289.64	48.900	ES
2H - Pilot - Pilot	7,800.00	6,748.45	1,837.49	1,796.26	44.567	SF
4H - OH - OH	3,348.99	3,342.09	844.10	830.85	63.737	CC
4H - OH - OH	4,367.55	4,363.37	844.66	827.45	49.054	ES
4H - OH - OH	11,320.60	9,495.81	2,133.40	2,015.23	18.053	SF
4H - Pilot - Pilot	4,968.60	4,961.74	839.65	819.81	42.329	CC
4H - Pilot - Pilot	6,250.00	6,240.60	842.83	818.01	33.963	ES
4H - Pilot - Pilot	6,600.00	6,545.15	856.09	830.20	33.073	SF
5H - OH - OH	1,793.22	1,771.26	2,240.49	2,233.72	331.220	CC
5H - OH - OH	3,300.00	3,265.60	2,241.66	2,228.90	175.696	ES
5H - OH - OH	11,320.60	9,529.00	2,951.23	2,796.97	19.132	SF
6H - OH - Plan #1 Draft 1	11,319.15	12,370.13	1,775.79	1,620.52	11.437	CC
6H - OH - Plan #1 Draft 1	11,320.60	12,370.13	1,775.79	1,620.50	11.436	ES, SF
7H - OH - OH	125.68	125.70	149.89	149.60	506.773	CC
7H - OH - OH	300.00	299.29	150.34	149.30	143.565	ES
7H - OH - OH	11,320.60	12,456.00	1,093.27	997.04	11.362	SF
8H - OH - Plan #1	6,260.42	6,246.36	1,258.37	1,230.56	45.246	CC
8H - OH - Plan #1	6,350.00	6,334.53	1,258.47	1,230.31	44.702	ES
8H - OH - Plan #1	11,320.60	12,299.56	1,568.58	1,422.38	10.729	SF
9H - OH - Plan #1 Draft 1	11,311.84	12,187.37	2,765.51	2,603.18	17.036	CC
9H - OH - Plan #1 Draft 1	11,320.60	12,187.37	2,765.53	2,603.05	17.021	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 11H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	11H	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 Draft1	Offset TVD Reference:	Reference Datum

Summary

Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Lone Tree Draw Offsets						
Lone Tree #1 - OH - OH	9,633.46	6,720.56	206.73	133.43	2.821	CC, ES, SF
Lone Tree Draw 13 State #3H - OH - OH	957.53	949.63	298.49	294.13	68.464	CC
Lone Tree Draw 13 State #3H - OH - OH	1,000.00	990.90	298.57	294.01	65.437	ES
Lone Tree Draw 13 State #3H - OH - OH	4,700.00	4,674.00	357.85	337.15	17.287	SF

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 0-LEAM MWD-ADJ												Offset Well Error:	0.00 usft
Reference													
Offset													
Semi Major Axis													
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)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	8.00	0.00	0.00	0.01	-90.34	-7.24	-1,229.73	1,229.75				
100.00	100.00	108.00	100.00	0.08	0.10	-90.34	-7.24	-1,229.73	1,229.75	1,229.57	0.19	6,631.811	
200.00	200.00	208.00	200.00	0.31	0.33	-90.34	-7.24	-1,229.73	1,229.75	1,229.12	0.63	1,936.725	
300.00	300.00	308.00	300.00	0.53	0.55	-90.34	-7.24	-1,229.73	1,229.75	1,228.67	1.08	1,133.938	
400.00	400.00	408.00	400.00	0.76	0.78	-90.34	-7.24	-1,229.73	1,229.75	1,228.22	1.53	801.648	
500.00	500.00	508.00	500.00	0.98	1.00	-90.34	-7.24	-1,229.73	1,229.75	1,227.77	1.98	619.972	
600.00	600.00	608.00	600.00	1.21	1.22	-90.34	-7.24	-1,229.73	1,229.75	1,227.32	2.43	505.427	
700.00	700.00	708.00	700.00	1.43	1.45	-90.34	-7.24	-1,229.73	1,229.75	1,226.87	2.88	426.608	
800.00	800.00	808.00	800.00	1.66	1.67	-90.34	-7.24	-1,229.73	1,229.75	1,226.42	3.33	369.056	
900.00	900.00	908.00	900.00	1.88	1.90	-90.34	-7.24	-1,229.73	1,229.75	1,225.97	3.78	325.186	
1,000.00	1,000.00	1,008.00	1,000.00	2.11	2.12	-90.34	-7.24	-1,229.73	1,229.75	1,225.52	4.23	290.637	
1,100.00	1,100.00	1,108.00	1,100.00	2.33	2.35	-90.34	-7.24	-1,229.73	1,229.75	1,225.07	4.68	262.725	
1,200.00	1,200.00	1,208.00	1,200.00	2.56	2.57	-90.34	-7.24	-1,229.73	1,229.75	1,224.62	5.13	239.704	
1,300.00	1,300.00	1,308.00	1,300.00	2.78	2.80	-90.34	-7.24	-1,229.73	1,229.75	1,224.17	5.58	220.393	
1,400.00	1,400.00	1,408.00	1,400.00	3.01	3.02	-90.34	-7.24	-1,229.73	1,229.75	1,223.72	6.03	203.961	
1,500.00	1,500.00	1,508.00	1,500.00	3.23	3.25	-90.34	-7.24	-1,229.73	1,229.75	1,223.27	6.48	189.809	
1,600.00	1,600.00	1,608.00	1,600.00	3.46	3.47	-90.34	-7.24	-1,229.73	1,229.75	1,222.82	6.93	177.494	
1,700.00	1,700.00	1,708.00	1,700.00	3.68	3.70	-90.34	-7.24	-1,229.73	1,229.75	1,222.37	7.38	166.679	
1,800.00	1,800.00	1,808.00	1,800.00	3.91	3.92	-90.34	-7.24	-1,229.73	1,229.75	1,221.92	7.83	157.107	
1,900.00	1,900.00	1,908.00	1,900.00	4.13	4.15	-90.34	-7.24	-1,229.73	1,229.75	1,221.47	8.28	148.574	
2,000.00	2,000.00	2,008.00	2,000.00	4.35	4.37	-90.34	-7.24	-1,229.73	1,229.75	1,221.02	8.73	140.921	
2,100.00	2,100.00	2,108.00	2,100.00	4.58	4.60	-90.34	-7.24	-1,229.73	1,229.75	1,220.58	9.18	134.017	
2,200.00	2,200.00	2,208.00	2,200.00	4.80	4.82	-90.34	-7.24	-1,229.73	1,229.75	1,220.13	9.63	127.758	
2,300.00	2,300.00	2,308.00	2,300.00	5.03	5.05	-90.34	-7.24	-1,229.73	1,229.75	1,219.68	10.08	122.058	
2,400.00	2,400.00	2,408.00	2,400.00	5.25	5.27	-90.34	-7.24	-1,229.73	1,229.75	1,219.23	10.52	116.845	
2,500.00	2,500.00	2,508.00	2,500.00	5.48	5.50	-90.34	-7.24	-1,229.73	1,229.75	1,218.78	10.97	112.058	
2,600.00	2,600.00	2,608.00	2,600.00	5.70	5.72	-90.34	-7.24	-1,229.73	1,229.75	1,218.33	11.42	107.649	
2,700.00	2,700.00	2,708.00	2,700.00	5.93	5.95	-90.34	-7.24	-1,229.73	1,229.75	1,217.88	11.87	103.573	
2,800.00	2,800.00	2,808.00	2,800.00	6.15	6.17	-90.34	-7.24	-1,229.73	1,229.75	1,217.43	12.32	99.795	
2,900.00	2,900.00	2,908.00	2,900.00	6.38	6.39	-90.34	-7.24	-1,229.73	1,229.75	1,216.98	12.77	96.282	
3,000.00	3,000.00	3,008.00	3,000.00	6.60	6.62	-90.34	-7.24	-1,229.73	1,229.75	1,216.53	13.22	93.009	
3,100.00	3,100.00	3,108.00	3,100.00	6.83	6.84	-90.34	-7.24	-1,229.73	1,229.75	1,216.08	13.67	89.951	
3,200.00	3,200.00	3,208.00	3,200.00	7.05	7.07	-90.34	-7.24	-1,229.73	1,229.75	1,215.63	14.12	87.087	
3,300.00	3,300.00	3,308.00	3,300.00	7.28	7.29	-90.34	-7.24	-1,229.73	1,229.75	1,215.18	14.57	84.400	
3,400.00	3,400.00	3,408.00	3,400.00	7.50	7.52	-90.34	-7.24	-1,229.73	1,229.75	1,214.73	15.02	81.874	
3,500.00	3,500.00	3,508.00	3,500.00	7.73	7.74	-90.34	-7.24	-1,229.73	1,229.75	1,214.28	15.47	79.495	
3,600.00	3,600.00	3,608.00	3,600.00	7.95	7.97	-90.34	-7.24	-1,229.73	1,229.75	1,213.83	15.92	77.250	

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

Leam Drilling Systems LLC

Anticollision Report

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Reference Well:	11H	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 Draft1	Offset TVD Reference:	Reference Datum

Offset Design Lone Tree Draw "13" State - 10H - 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 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)					
3,700.00	3,700.00	3,708.00	3,700.00	8.18	8.18	-90.34	-7.24	-1,229.73	1,229.75	1,213.38	16.37	75.129			
3,800.00	3,800.00	3,808.00	3,800.00	8.40	8.42	-90.34	-7.24	-1,229.73	1,229.75	1,212.93	16.82	73.121			
3,900.00	3,900.00	3,908.00	3,900.00	8.63	8.64	-90.34	-7.24	-1,229.73	1,229.75	1,212.48	17.27	71.217			
4,000.00	4,000.00	4,008.00	4,000.00	8.85	8.87	-90.34	-7.24	-1,229.73	1,229.75	1,212.03	17.72	69.410			
4,100.00	4,100.00	4,108.00	4,100.00	9.07	9.09	-90.34	-7.24	-1,229.73	1,229.75	1,211.58	18.17	67.693			
4,200.00	4,200.00	4,208.00	4,200.00	9.30	9.32	-90.34	-7.24	-1,229.73	1,229.75	1,211.14	18.62	66.058			
4,300.00	4,300.00	4,308.00	4,300.00	9.52	9.54	-90.34	-7.24	-1,229.73	1,229.75	1,210.69	19.07	64.500			
4,400.00	4,400.00	4,408.00	4,400.00	9.75	9.77	-90.34	-7.24	-1,229.73	1,229.75	1,210.24	19.52	63.015			
4,500.00	4,500.00	4,508.00	4,500.00	9.97	9.99	-90.34	-7.24	-1,229.73	1,229.75	1,209.78	19.96	61.596			
4,600.00	4,600.00	4,608.00	4,600.00	10.20	10.22	-90.34	-7.24	-1,229.73	1,229.75	1,209.34	20.41	60.239			
4,700.00	4,700.00	4,708.00	4,700.00	10.42	10.44	-90.34	-7.24	-1,229.73	1,229.75	1,208.89	20.86	58.942			
4,800.00	4,800.00	4,808.00	4,800.00	10.65	10.67	-90.34	-7.24	-1,229.73	1,229.75	1,208.44	21.31	57.698			
4,900.00	4,900.00	4,908.00	4,900.00	10.87	10.89	-90.34	-7.24	-1,229.73	1,229.75	1,207.99	21.76	56.507			
5,000.00	5,000.00	5,008.00	5,000.00	11.10	11.11	-90.34	-7.24	-1,229.73	1,229.75	1,207.54	22.21	55.363			
5,100.00	5,100.00	5,108.00	5,100.00	11.32	11.34	-90.34	-7.24	-1,229.73	1,229.75	1,207.09	22.66	54.265			
5,200.00	5,200.00	5,208.00	5,200.00	11.55	11.56	-90.34	-7.24	-1,229.73	1,229.75	1,206.64	23.11	53.209			
5,300.00	5,300.00	5,308.00	5,300.00	11.77	11.79	-90.34	-7.24	-1,229.73	1,229.75	1,206.19	23.56	52.194			
5,400.00	5,400.00	5,408.00	5,400.00	12.00	12.01	-90.34	-7.24	-1,229.73	1,229.75	1,205.74	24.01	51.217			
5,500.00	5,500.00	5,508.00	5,500.00	12.22	12.24	-90.34	-7.24	-1,229.73	1,229.75	1,205.29	24.46	50.276			
5,600.00	5,600.00	5,608.00	5,600.00	12.45	12.46	-90.34	-7.24	-1,229.73	1,229.75	1,204.84	24.91	49.368			
5,700.00	5,700.00	5,708.00	5,700.00	12.67	12.69	-90.34	-7.24	-1,229.73	1,229.75	1,204.39	25.36	48.493			
5,800.00	5,800.00	5,808.00	5,800.00	12.90	12.91	-90.34	-7.24	-1,229.73	1,229.75	1,203.94	25.81	47.649			
5,900.00	5,900.00	5,908.00	5,900.00	13.12	13.14	-90.34	-7.24	-1,229.73	1,229.75	1,203.49	26.26	46.833			
6,000.00	6,000.00	6,008.00	6,000.00	13.35	13.36	-90.34	-7.24	-1,229.73	1,229.75	1,203.04	26.71	46.045			
6,100.00	6,100.00	6,108.00	6,100.00	13.57	13.59	-90.34	-7.24	-1,229.73	1,229.75	1,202.59	27.16	45.282			
6,200.00	6,200.00	6,208.00	6,200.00	13.80	13.81	-90.34	-7.24	-1,229.73	1,229.75	1,202.14	27.61	44.545			
6,216.00	6,216.00	6,224.00	6,216.00	13.83	13.85	-90.34	-7.24	-1,229.73	1,229.75	1,202.07	27.68	44.429 CC			
6,250.00	6,249.98	6,257.98	6,249.98	13.80	13.82	90.15	-7.24	-1,229.73	1,229.75	1,201.83	27.82	44.202			
6,300.00	6,299.64	6,307.64	6,299.64	13.98	14.04	90.41	-7.24	-1,229.73	1,229.78	1,201.77	28.01	43.901 ES			
6,350.00	6,348.53	6,350.00	6,341.99	14.07	14.12	90.76	-7.97	-1,229.80	1,229.99	1,201.81	28.17	43.660			
6,400.00	6,396.20	6,390.29	6,382.07	14.16	14.19	91.07	-11.88	-1,230.19	1,230.68	1,202.36	28.32	43.460			
6,450.00	6,442.21	6,430.91	6,422.01	14.25	14.26	91.35	-19.21	-1,230.91	1,231.90	1,203.43	28.47	43.273			
6,500.00	6,486.14	6,472.22	6,461.83	14.33	14.33	91.60	-30.10	-1,231.98	1,233.64	1,205.01	28.63	43.088			
6,550.00	6,527.58	6,514.28	6,501.24	14.44	14.40	91.81	-44.67	-1,233.41	1,235.89	1,207.08	28.81	42.894			
6,600.00	6,566.15	6,557.17	6,539.95	14.57	14.48	91.99	-63.02	-1,235.22	1,238.64	1,209.62	29.02	42.677			
6,650.00	6,601.50	6,600.00	6,576.80	14.74	14.55	92.12	-84.71	-1,237.35	1,241.88	1,212.61	29.27	42.427			
6,700.00	6,633.30	6,645.74	6,613.83	14.94	14.65	92.24	-111.41	-1,239.98	1,245.58	1,216.01	29.57	42.119			
6,750.00	6,661.25	6,691.58	6,648.19	15.18	14.77	92.32	-141.58	-1,242.95	1,249.71	1,219.78	29.93	41.750			
6,800.00	6,685.11	6,738.57	6,680.23	15.46	14.93	92.36	-175.76	-1,248.31	1,254.22	1,223.86	30.36	41.307			
6,850.00	6,704.65	6,786.80	6,709.44	15.78	15.12	92.36	-213.92	-1,250.07	1,259.08	1,228.20	30.87	40.782			
6,900.00	6,719.68	6,836.32	6,735.26	16.15	15.35	92.33	-255.96	-1,254.21	1,264.22	1,232.75	31.47	40.174			
6,950.00	6,730.08	6,887.22	6,757.09	16.56	15.63	92.27	-301.69	-1,258.71	1,269.59	1,237.44	32.15	39.484			
7,000.00	6,735.75	6,939.54	6,774.29	17.00	15.96	92.17	-350.83	-1,263.54	1,275.13	1,242.20	32.93	38.720			
7,030.62	6,736.86	6,972.29	6,782.28	17.29	16.20	92.09	-382.44	-1,266.65	1,278.57	1,245.12	33.45	38.222			
7,100.00	6,737.33	7,048.97	6,792.33	17.99	16.81	92.51	-458.01	-1,274.09	1,286.24	1,251.49	34.74	37.020			
7,200.00	6,738.02	7,151.30	6,792.89	19.10	17.76	92.48	-559.83	-1,284.11	1,296.78	1,259.97	36.80	35.236			
7,300.00	6,738.70	7,250.74	6,792.80	20.32	18.80	92.43	-658.79	-1,293.85	1,307.29	1,268.24	39.05	33.478			
7,400.00	6,739.38	7,350.17	6,792.71	21.62	19.95	92.37	-757.75	-1,303.58	1,317.81	1,276.32	41.49	31.760			
7,500.00	6,740.07	7,449.61	6,792.62	23.00	21.19	92.32	-856.71	-1,313.32	1,328.33	1,284.23	44.10	30.122			
7,600.00	6,740.75	7,549.05	6,792.53	24.44	22.51	92.27	-955.67	-1,323.06	1,338.85	1,292.01	46.84	28.584			
7,700.00	6,741.43	7,648.49	6,792.44	25.92	23.89	92.22	-1,054.63	-1,332.80	1,349.37	1,299.68	49.69	27.154			

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 11H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	11H	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 Draft1	Offset TVD Reference:	Reference Datum

Offset Design Lone Tree Draw "13" State - 10H - 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 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)				
7,800.00	6,742.12	7,747.93	6,792.35	27.45	25.32	92.17	-1,153.59	-1,342.54	1,359.89	1,307.25	52.64	25.832		
7,900.00	6,742.80	7,847.36	6,792.26	29.02	26.79	92.12	-1,252.55	-1,352.27	1,370.42	1,314.74	55.67	24.616		
8,000.00	6,743.49	7,946.80	6,792.17	30.61	28.31	92.07	-1,351.51	-1,362.01	1,380.94	1,322.17	58.77	23.497		
8,100.00	6,744.17	8,046.24	6,792.08	32.23	29.85	92.03	-1,450.47	-1,371.75	1,391.46	1,329.54	61.92	22.470		
8,200.00	6,744.85	8,145.68	6,791.99	33.87	31.43	91.98	-1,549.43	-1,381.49	1,401.98	1,336.86	65.13	21.527		
8,300.00	6,745.54	8,245.12	6,791.90	35.53	33.02	91.93	-1,648.39	-1,391.23	1,412.52	1,344.14	68.37	20.659		
8,400.00	6,746.22	8,344.55	6,791.81	37.21	34.64	91.89	-1,747.35	-1,400.96	1,423.04	1,351.39	71.66	19.860		
8,500.00	6,746.90	8,443.99	6,791.72	38.90	36.27	91.84	-1,846.31	-1,410.70	1,433.57	1,358.60	74.97	19.122		
8,600.00	6,747.59	8,543.43	6,791.63	40.60	37.92	91.80	-1,945.27	-1,420.44	1,444.10	1,365.79	78.31	18.441		
8,700.00	6,748.27	8,642.87	6,791.54	42.32	39.58	91.76	-2,044.23	-1,430.18	1,454.63	1,372.96	81.68	17.810		
8,800.00	6,748.95	8,742.31	6,791.45	44.04	41.26	91.71	-2,143.19	-1,439.92	1,465.16	1,380.10	85.06	17.225		
8,900.00	6,749.64	8,841.74	6,791.36	45.77	42.94	91.67	-2,242.15	-1,449.65	1,475.70	1,387.23	88.47	16.680		
9,000.00	6,750.32	8,941.18	6,791.27	47.51	44.63	91.63	-2,341.11	-1,459.39	1,486.23	1,394.34	91.89	16.174		
9,100.00	6,751.01	9,040.62	6,791.18	49.26	46.34	91.59	-2,440.07	-1,469.13	1,496.76	1,401.43	95.33	15.701		
9,200.00	6,751.69	9,140.06	6,791.09	51.01	48.04	91.55	-2,539.03	-1,478.87	1,507.30	1,408.52	98.78	15.259		
9,300.00	6,752.37	9,239.50	6,791.00	52.77	49.76	91.51	-2,637.99	-1,488.61	1,517.83	1,415.59	102.24	14.845		
9,400.00	6,753.06	9,338.93	6,790.91	54.53	51.48	91.47	-2,736.95	-1,498.35	1,528.37	1,422.65	105.72	14.457		
9,500.00	6,753.74	9,438.37	6,790.82	56.30	53.20	91.43	-2,835.91	-1,508.08	1,538.90	1,429.70	109.20	14.093		
9,600.00	6,754.42	9,537.81	6,790.73	58.07	54.94	91.39	-2,934.87	-1,517.82	1,549.44	1,436.75	112.69	13.749		
9,700.00	6,755.11	9,637.25	6,790.64	59.85	56.67	91.35	-3,033.83	-1,527.56	1,559.98	1,443.79	116.19	13.426		
9,800.00	6,755.79	9,736.69	6,790.55	61.62	58.41	91.32	-3,132.79	-1,537.30	1,570.52	1,450.82	119.70	13.120		
9,830.58	6,756.00	9,767.10	6,790.52	62.17	58.94	91.31	-3,163.06	-1,540.28	1,573.74	1,452.96	120.77	13.030		
9,865.93	6,756.05	9,802.24	6,790.49	62.80	59.56	91.23	-3,198.03	-1,543.72	1,577.57	1,455.59	121.98	12.933		
9,900.00	6,755.91	9,836.09	6,790.46	63.40	60.15	91.23	-3,231.72	-1,547.03	1,581.36	1,458.18	123.18	12.838		
10,000.00	6,755.49	9,935.47	6,790.37	65.19	61.90	91.24	-3,330.63	-1,556.77	1,592.47	1,465.78	126.70	12.569		
10,100.00	6,755.07	10,034.85	6,790.28	66.98	63.64	91.24	-3,429.53	-1,566.50	1,603.59	1,473.37	130.22	12.314		
10,200.00	6,754.66	10,134.23	6,790.19	68.77	65.39	91.24	-3,528.43	-1,576.23	1,614.71	1,480.96	133.75	12.073		
10,300.00	6,754.24	10,233.61	6,790.10	70.56	67.15	91.24	-3,627.33	-1,585.96	1,625.83	1,488.55	137.28	11.843		
10,400.00	6,753.83	10,332.99	6,790.01	72.36	68.90	91.25	-3,726.23	-1,595.69	1,636.95	1,496.13	140.82	11.624		
10,500.00	6,753.41	10,432.37	6,789.92	74.16	70.66	91.25	-3,825.14	-1,605.43	1,648.07	1,503.71	144.37	11.416		
10,600.00	6,753.00	10,531.75	6,789.83	75.96	72.42	91.25	-3,924.04	-1,615.16	1,659.19	1,511.28	147.91	11.217		
10,700.00	6,752.58	10,631.13	6,789.74	77.76	74.18	91.26	-4,022.94	-1,624.89	1,670.31	1,518.85	151.46	11.028		
10,800.00	6,752.16	10,730.51	6,789.65	79.56	75.95	91.26	-4,121.84	-1,634.62	1,681.43	1,526.41	155.02	10.847		
10,900.00	6,751.75	10,829.89	6,789.56	81.36	77.71	91.26	-4,220.74	-1,644.36	1,692.55	1,533.98	158.58	10.673		
11,000.00	6,751.33	10,929.27	6,789.47	83.17	79.48	91.26	-4,319.65	-1,654.09	1,703.67	1,541.54	162.14	10.508		
11,100.00	6,750.92	11,028.65	6,789.38	84.98	81.25	91.27	-4,418.55	-1,663.82	1,714.79	1,549.09	165.70	10.349		
11,200.00	6,750.50	11,128.03	6,789.29	86.78	83.01	91.27	-4,517.45	-1,673.55	1,725.91	1,556.65	169.26	10.197		
11,300.00	6,750.09	11,227.41	6,789.20	88.59	84.79	91.27	-4,616.35	-1,683.28	1,737.03	1,564.20	172.83	10.050		
11,320.60	6,750.00	11,247.88	6,789.18	88.97	85.15	91.27	-4,636.73	-1,685.29	1,739.32	1,565.76	173.57	10.021 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 11H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	11H	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 Draft1	Offset TVD Reference:	Reference Datum

Offset Design Lone Tree Draw "13" State - 13H - OH - Plan #1 Draft 2												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	
0.00	0.00	0.00	34.00	0.00	0.00	93.54	-177.88	2,873.61	2,879.31				
100.00	100.00	66.00	100.00	0.08	0.05	93.54	-177.88	2,873.61	2,879.11	2,878.97	0.14	N/A	
200.00	200.00	166.00	200.00	0.31	0.23	93.54	-177.88	2,873.61	2,879.11	2,878.57	0.54	5,326.137	
300.00	300.00	266.00	300.00	0.53	0.46	93.54	-177.88	2,873.61	2,879.11	2,878.12	0.99	2,907.914	
400.00	400.00	366.00	400.00	0.76	0.68	93.54	-177.88	2,873.61	2,879.11	2,877.67	1.44	1,999.901	
500.00	500.00	466.00	500.00	0.98	0.91	93.54	-177.88	2,873.61	2,879.11	2,877.22	1.89	1,524.017	
600.00	600.00	566.00	600.00	1.21	1.13	93.54	-177.88	2,873.61	2,879.11	2,876.77	2.34	1,231.078	
700.00	700.00	666.00	700.00	1.43	1.36	93.54	-177.88	2,873.61	2,879.11	2,876.32	2.79	1,032.597	
800.00	800.00	766.00	800.00	1.66	1.58	93.54	-177.88	2,873.61	2,879.11	2,875.87	3.24	889.230	
900.00	900.00	866.00	900.00	1.88	1.80	93.54	-177.88	2,873.61	2,879.11	2,875.42	3.69	780.821	
1,000.00	1,000.00	966.00	1,000.00	2.11	2.03	93.54	-177.88	2,873.61	2,879.11	2,874.97	4.14	695.972	
1,100.00	1,100.00	1,066.00	1,100.00	2.33	2.25	93.54	-177.88	2,873.61	2,879.11	2,874.52	4.59	627.756	
1,200.00	1,200.00	1,166.00	1,200.00	2.56	2.48	93.54	-177.88	2,873.61	2,879.11	2,874.07	5.04	571.719	
1,300.00	1,300.00	1,266.00	1,300.00	2.78	2.70	93.54	-177.88	2,873.61	2,879.11	2,873.62	5.49	524.866	
1,400.00	1,400.00	1,366.00	1,400.00	3.01	2.93	93.54	-177.88	2,873.61	2,879.11	2,873.18	5.93	485.111	
1,500.00	1,500.00	1,466.00	1,500.00	3.23	3.15	93.54	-177.88	2,873.61	2,879.11	2,872.73	6.38	450.955	
1,600.00	1,600.00	1,566.00	1,600.00	3.46	3.38	93.54	-177.88	2,873.61	2,879.11	2,872.28	6.83	421.291	
1,700.00	1,700.00	1,666.00	1,700.00	3.68	3.60	93.54	-177.88	2,873.61	2,879.11	2,871.83	7.28	395.290	
1,800.00	1,800.00	1,766.00	1,800.00	3.91	3.83	93.54	-177.88	2,873.61	2,879.11	2,871.38	7.73	372.311	
1,900.00	1,900.00	1,866.00	1,900.00	4.13	4.05	93.54	-177.88	2,873.61	2,879.11	2,870.93	8.18	351.857	
2,000.00	2,000.00	1,966.00	2,000.00	4.35	4.28	93.54	-177.88	2,873.61	2,879.11	2,870.48	8.63	333.534	
2,100.00	2,100.00	2,066.00	2,100.00	4.58	4.50	93.54	-177.88	2,873.61	2,879.11	2,870.03	9.08	317.024	
2,200.00	2,200.00	2,166.00	2,200.00	4.80	4.73	93.54	-177.88	2,873.61	2,879.11	2,869.58	9.53	302.072	
2,300.00	2,300.00	2,266.00	2,300.00	5.03	4.95	93.54	-177.88	2,873.61	2,879.11	2,869.13	9.98	288.467	
2,400.00	2,400.00	2,366.00	2,400.00	5.25	5.18	93.54	-177.88	2,873.61	2,879.11	2,868.68	10.43	276.034	
2,500.00	2,500.00	2,466.00	2,500.00	5.48	5.40	93.54	-177.88	2,873.61	2,879.11	2,868.23	10.88	264.629	
2,600.00	2,600.00	2,566.00	2,600.00	5.70	5.63	93.54	-177.88	2,873.61	2,879.11	2,867.78	11.33	254.129	
2,700.00	2,700.00	2,666.00	2,700.00	5.93	5.85	93.54	-177.88	2,873.61	2,879.11	2,867.33	11.78	244.430	
2,800.00	2,800.00	2,766.00	2,800.00	6.15	6.08	93.54	-177.88	2,873.61	2,879.11	2,866.88	12.23	235.445	
2,900.00	2,900.00	3,008.91	3,042.76	6.38	6.80	93.50	-175.25	2,867.11	2,876.01	2,863.04	12.97	221.710	
3,000.00	3,000.00	3,108.77	3,142.48	6.60	6.81	93.46	-173.30	2,862.27	2,871.04	2,857.64	13.40	214.181	
3,100.00	3,100.00	3,208.63	3,242.21	6.83	7.02	93.43	-171.34	2,857.42	2,866.08	2,852.24	13.84	207.104	
3,200.00	3,200.00	3,308.50	3,341.94	7.05	7.24	93.40	-169.38	2,852.57	2,861.12	2,846.85	14.27	200.442	
3,300.00	3,300.00	3,408.36	3,441.66	7.28	7.46	93.36	-167.42	2,847.73	2,856.16	2,841.45	14.71	194.161	
3,400.00	3,400.00	3,508.22	3,541.39	7.50	7.68	93.33	-165.47	2,842.88	2,851.20	2,836.05	15.15	188.229	
3,500.00	3,500.00	3,608.09	3,641.11	7.73	7.90	93.30	-163.51	2,838.04	2,846.24	2,830.66	15.59	182.620	
3,600.00	3,600.00	3,707.95	3,740.84	7.95	8.12	93.26	-161.55	2,833.19	2,841.29	2,825.26	16.02	177.309	
3,700.00	3,700.00	3,807.81	3,840.57	8.18	8.34	93.23	-159.59	2,828.34	2,836.33	2,819.86	16.46	172.273	
3,800.00	3,800.00	3,907.67	3,940.29	8.40	8.57	93.20	-157.63	2,823.50	2,831.37	2,814.47	16.90	167.493	
3,900.00	3,900.00	4,007.54	4,040.02	8.63	8.79	93.16	-155.68	2,818.65	2,826.42	2,809.07	17.35	162.949	
4,000.00	4,000.00	4,107.40	4,139.75	8.85	9.02	93.13	-153.72	2,813.81	2,821.47	2,803.68	17.79	158.625	
4,100.00	4,100.00	4,207.26	4,239.47	9.07	9.25	93.09	-151.76	2,808.96	2,816.51	2,798.28	18.23	154.506	
4,200.00	4,200.00	4,307.13	4,339.20	9.30	9.47	93.06	-149.80	2,804.12	2,811.56	2,792.89	18.67	150.578	
4,300.00	4,300.00	4,406.99	4,438.92	9.52	9.70	93.02	-147.84	2,799.27	2,806.61	2,787.50	19.11	146.828	
4,400.00	4,400.00	4,506.85	4,538.65	9.75	9.93	92.99	-145.89	2,794.42	2,801.66	2,782.10	19.56	143.245	
4,500.00	4,500.00	4,606.71	4,638.38	9.97	10.16	92.95	-143.93	2,789.58	2,796.71	2,776.71	20.00	139.818	
4,600.00	4,600.00	4,706.58	4,738.10	10.20	10.39	92.92	-141.97	2,784.73	2,791.77	2,771.32	20.45	136.537	
4,700.00	4,700.00	4,806.44	4,837.83	10.42	10.62	92.88	-140.01	2,779.89	2,786.82	2,765.93	20.89	133.393	
4,800.00	4,800.00	4,906.30	4,937.55	10.65	10.85	92.85	-138.06	2,775.04	2,781.87	2,760.54	21.34	130.378	
4,900.00	4,900.00	5,006.17	5,037.28	10.87	11.09	92.81	-136.10	2,770.19	2,776.93	2,755.15	21.78	127.485	
5,000.00	5,000.00	5,106.03	5,137.01	11.10	11.32	92.78	-134.14	2,765.35	2,771.99	2,749.76	22.23	124.706	

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 11H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	11H	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 Draft1	Offset TVD Reference:	Reference Datum

Offset Design Lone Tree Draw "13" State - 13H - OH - Plan #1 Draft 2													Offset Site Error: 0.00 usft	
Survey Program: 0-LEAM MWD-ADJ													Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis		Highside Tooface ('')	Distance					Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)			
5,100.00	5,100.00	5,205.89	5,236.73	11.32	11.55	92.74	-132.18	2,760.50	2,767.05	2,744.37	22.67	122.034		
5,200.00	5,200.00	5,305.76	5,336.46	11.55	11.78	92.71	-130.22	2,755.66	2,762.10	2,738.98	23.12	119.465		
5,300.00	5,300.00	5,405.62	5,436.18	11.77	12.02	92.67	-128.27	2,750.81	2,757.16	2,733.60	23.57	116.991		
5,400.00	5,400.00	5,505.48	5,535.91	12.00	12.25	92.63	-126.31	2,745.96	2,752.23	2,728.21	24.01	114.608		
5,500.00	5,500.00	5,605.34	5,635.64	12.22	12.49	92.60	-124.35	2,741.12	2,747.29	2,722.83	24.46	112.312		
5,600.00	5,600.00	5,705.21	5,735.36	12.45	12.72	92.56	-122.39	2,736.27	2,742.35	2,717.44	24.91	110.097		
5,700.00	5,700.00	5,805.07	5,835.09	12.67	12.96	92.52	-120.43	2,731.43	2,737.42	2,712.06	25.36	107.959		
5,800.00	5,800.00	5,904.93	5,934.82	12.90	13.19	92.49	-118.48	2,726.58	2,732.48	2,706.68	25.80	105.894		
5,900.00	5,900.00	6,004.80	6,034.54	13.12	13.43	92.45	-116.52	2,721.74	2,727.55	2,701.30	26.25	103.899		
6,000.00	6,000.00	6,078.84	6,108.49	13.35	13.59	92.43	-115.12	2,718.28	2,722.88	2,696.24	26.64	102.225		
6,100.00	6,100.00	6,131.58	6,161.20	13.57	13.70	92.41	-114.47	2,716.66	2,719.76	2,692.80	26.96	100.879		
6,200.00	6,200.00	6,200.00	6,229.61	13.60	13.82	92.41	-114.16	2,715.90	2,718.46	2,691.15	27.31	99.545		
6,216.00	6,216.00	6,200.00	6,229.61	13.83	13.82	92.41	-114.16	2,715.90	2,718.33	2,690.99	27.34	99.410		
6,250.00	6,249.98	6,220.36	6,249.98	13.90	13.86	-87.18	-114.16	2,715.90	2,718.25	2,690.79	27.45	99.021		
6,300.00	6,299.64	6,270.02	6,299.64	13.98	13.95	-87.33	-114.16	2,715.90	2,717.97	2,690.34	27.63	98.374		
6,350.00	6,348.53	6,318.91	6,348.53	14.07	14.05	-87.59	-114.16	2,715.90	2,717.50	2,689.69	27.81	97.722		
6,400.00	6,396.20	6,368.46	6,398.07	14.16	14.16	-87.97	-114.52	2,715.88	2,716.89	2,688.89	27.99	97.052		
6,450.00	6,442.21	6,422.48	6,451.82	14.25	14.25	-88.40	-119.65	2,715.64	2,716.11	2,687.93	28.17	96.406		
6,500.00	6,486.14	6,478.77	6,506.83	14.33	14.35	-88.84	-131.40	2,715.07	2,715.14	2,686.79	28.36	95.743		
6,550.00	6,527.58	6,537.39	6,562.23	14.44	14.45	-89.29	-150.42	2,714.15	2,713.98	2,685.43	28.56	95.030		
6,600.00	6,566.15	6,598.33	6,616.90	14.57	14.55	-89.74	-177.22	2,712.86	2,712.62	2,683.83	28.79	94.228		
6,650.00	6,601.50	6,661.49	6,669.47	14.74	14.67	-90.18	-212.10	2,711.18	2,711.04	2,681.98	29.06	93.283		
6,700.00	6,633.30	6,726.65	6,718.40	14.94	14.80	-90.60	-255.01	2,709.11	2,709.23	2,679.83	29.40	92.141		
6,750.00	6,661.25	6,793.47	6,762.01	15.18	14.97	-90.99	-305.50	2,706.68	2,707.19	2,677.35	29.83	90.744		
6,800.00	6,685.11	6,861.48	6,798.73	15.46	15.21	-91.35	-362.61	2,703.83	2,704.91	2,674.54	30.37	89.060		
6,850.00	6,704.65	6,830.12	6,827.18	15.78	15.54	-91.67	-424.95	2,700.92	2,702.40	2,671.37	31.03	87.086		
6,900.00	6,719.68	6,998.78	6,846.39	16.15	15.95	-91.94	-490.72	2,697.75	2,699.69	2,667.88	31.82	84.854		
6,950.00	6,730.08	7,066.83	6,855.93	16.56	16.44	-92.16	-557.97	2,694.51	2,696.80	2,664.09	32.72	82.431		
7,000.00	6,735.75	7,124.70	6,857.18	17.00	16.83	-92.37	-615.75	2,691.73	2,693.82	2,660.17	33.65	80.062		
7,030.62	6,736.86	7,155.26	6,857.31	17.29	17.20	-92.55	-646.27	2,690.26	2,692.07	2,657.86	34.21	78.693		
7,100.00	6,737.33	7,224.53	6,857.59	17.99	17.86	-92.55	-715.46	2,686.92	2,688.19	2,652.63	35.56	75.590		
7,200.00	6,738.02	7,324.37	6,857.99	19.10	18.92	-92.55	-815.18	2,682.12	2,682.60	2,644.87	37.73	71.096		
7,300.00	6,738.70	7,424.22	6,858.40	20.32	20.09	-92.54	-914.91	2,677.31	2,677.01	2,636.90	40.12	66.732		
7,400.00	6,739.38	7,524.06	6,858.80	21.62	21.35	-92.54	-1,014.64	2,672.51	2,671.42	2,628.75	42.68	62.595		
7,500.00	6,740.07	7,623.90	6,859.21	23.00	22.68	-92.54	-1,114.36	2,667.70	2,665.83	2,620.45	45.39	58.734		
7,600.00	6,740.75	7,723.75	6,859.61	24.44	24.08	-92.54	-1,214.09	2,662.89	2,660.25	2,612.02	48.22	55.168		
7,700.00	6,741.43	7,823.59	6,860.02	25.92	25.53	-92.54	-1,313.82	2,658.09	2,654.66	2,603.50	51.16	51.893		
7,800.00	6,742.12	7,923.43	6,860.42	27.45	27.03	-92.54	-1,413.55	2,653.28	2,649.07	2,594.89	54.18	48.895		
7,900.00	6,742.80	8,023.28	6,860.83	29.02	28.56	-92.54	-1,513.27	2,648.47	2,643.48	2,586.21	57.27	46.156		
8,000.00	6,743.49	8,123.12	6,861.23	30.61	30.12	-92.54	-1,613.00	2,643.67	2,637.89	2,577.46	60.43	43.654		
8,100.00	6,744.17	8,222.97	6,861.63	32.23	31.71	-92.54	-1,712.73	2,638.86	2,632.30	2,568.67	63.63	41.366		
8,200.00	6,744.85	8,322.81	6,862.04	33.87	33.32	-92.54	-1,812.45	2,634.06	2,626.71	2,559.83	66.89	39.271		
8,300.00	6,745.54	8,422.65	6,862.44	35.53	34.96	-92.54	-1,912.18	2,629.25	2,621.12	2,550.95	70.18	37.350		
8,400.00	6,746.22	8,522.50	6,862.85	37.21	36.61	-92.54	-2,011.91	2,624.44	2,615.53	2,542.03	73.50	35.585		
8,500.00	6,746.90	8,622.34	6,863.25	38.90	38.27	-92.54	-2,111.64	2,619.64	2,609.95	2,533.09	76.85	33.960		
8,600.00	6,747.59	8,722.18	6,863.66	40.60	39.95	-92.54	-2,211.36	2,614.83	2,604.36	2,524.13	80.23	32.461		
8,700.00	6,748.27	8,822.03	6,864.06	42.32	41.64	-92.54	-2,311.09	2,610.03	2,598.77	2,515.14	83.63	31.074		
8,800.00	6,748.95	8,921.87	6,864.47	44.04	43.34	-92.54	-2,410.82	2,605.22	2,593.18	2,506.13	87.05	29.789		
8,900.00	6,749.64	9,021.71	6,864.87	45.77	45.05	-92.53	-2,510.54	2,600.41	2,587.59	2,497.10	90.49	28.596		
9,000.00	6,750.32	9,121.56	6,865.28	47.51	46.76	-92.53	-2,610.27	2,595.61	2,582.00	2,488.06	93.94	27.486		

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 11H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	11H	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 Draft1	Offset TVD Reference:	Reference Datum

Offset Design Lone Tree Draw "13" State - 13H - OH - Plan #1 Draft 2														Offset Site Error:	0.00 usft
Survey Program: D-LEAM MWD-ADJ														Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance		Minimum Separation (usft)	Separation Factor	Warning		
Reference	Offset	Reference	Offset	Reference	Offset				Between Centres (usft)	Between Ellipses (usft)					
9,100.00	6,751.01	9,221.40	6,865.68	49.26	48.49	-92.53	-2,710.00	2,590.80	2,576.41	2,479.01	97.41	26.450			
9,200.00	6,751.69	9,509.65	6,863.11	51.01	53.34	-92.46	-2,997.17	2,567.57	2,568.19	2,464.20	103.99	24.697			
9,300.00	6,752.37	9,608.79	6,860.67	52.77	55.06	-92.40	-3,095.55	2,555.68	2,555.30	2,447.85	107.45	23.781			
9,400.00	6,753.06	9,707.92	6,858.22	54.53	56.79	-92.34	-3,193.94	2,543.79	2,542.42	2,431.49	110.93	22.920			
9,500.00	6,753.74	9,807.05	6,855.78	56.30	58.51	-92.28	-3,292.33	2,531.89	2,529.54	2,415.13	114.41	22.110			
9,600.00	6,754.42	9,906.19	6,853.33	58.07	60.25	-92.22	-3,390.71	2,520.00	2,516.66	2,398.76	117.90	21.346			
9,700.00	6,755.11	10,005.32	6,850.89	59.85	61.98	-92.16	-3,489.10	2,508.11	2,503.79	2,382.39	121.40	20.625			
9,800.00	6,755.79	10,104.45	6,848.44	61.62	63.72	-92.10	-3,587.49	2,496.22	2,490.91	2,368.01	124.90	19.943			
9,830.58	6,756.00	10,134.77	6,847.70	62.17	64.26	-92.08	-3,617.58	2,492.58	2,486.98	2,361.00	125.98	19.742			
9,865.93	6,756.05	10,169.80	6,846.83	62.80	64.87	-92.15	-3,652.35	2,488.38	2,482.34	2,355.17	127.17	19.520			
9,900.00	6,755.91	10,203.56	6,846.00	63.40	65.46	-92.13	-3,685.85	2,484.33	2,477.78	2,349.41	128.36	19.303			
10,000.00	6,755.49	10,302.65	6,843.56	65.19	67.21	-92.10	-3,784.19	2,472.44	2,464.40	2,332.52	131.88	18.687			
10,100.00	6,755.07	10,401.74	6,841.11	66.98	68.96	-92.06	-3,882.54	2,460.56	2,451.01	2,315.62	135.40	18.102			
10,200.00	6,754.66	10,500.83	6,838.67	68.77	70.70	-92.03	-3,980.88	2,448.67	2,437.63	2,298.71	138.92	17.547			
10,300.00	6,754.24	10,599.92	6,836.22	70.56	72.46	-91.99	-4,079.22	2,436.78	2,424.25	2,281.80	142.45	17.018			
10,400.00	6,753.83	10,699.00	6,833.78	72.36	74.21	-91.95	-4,177.56	2,424.90	2,410.88	2,264.89	145.99	16.514			
10,500.00	6,753.41	10,798.09	6,831.34	74.16	75.96	-91.91	-4,275.91	2,413.01	2,397.50	2,247.98	149.52	16.034			
10,600.00	6,753.00	10,897.18	6,828.89	75.96	77.72	-91.87	-4,374.25	2,401.12	2,384.12	2,231.06	153.06	15.576			
10,700.00	6,752.58	10,996.27	6,826.45	77.76	79.48	-91.83	-4,472.59	2,389.24	2,370.75	2,214.14	156.61	15.138			
10,800.00	6,752.16	11,095.36	6,824.01	79.56	81.24	-91.79	-4,570.93	2,377.35	2,357.37	2,197.22	160.16	14.719			
10,900.00	6,751.75	11,194.45	6,821.56	81.36	83.00	-91.75	-4,669.28	2,365.47	2,344.00	2,180.29	163.71	14.318			
11,000.00	6,751.33	11,293.53	6,819.12	83.17	84.76	-91.71	-4,767.62	2,353.58	2,330.63	2,163.37	167.26	13.934			
11,100.00	6,750.92	11,298.36	6,819.00	84.98	84.85	-91.71	-4,772.41	2,353.00	2,319.17	2,150.02	169.15	13.711			
11,200.00	6,750.50	11,298.36	6,819.00	86.78	84.85	-91.71	-4,772.41	2,353.00	2,311.98	2,141.03	170.96	13.524			
11,300.00	6,750.09	11,298.36	6,819.00	88.59	84.85	-91.71	-4,772.41	2,353.00	2,309.11	2,136.34	172.77	13.366			
11,316.42	6,750.02	11,298.36	6,819.00	88.89	84.85	-91.71	-4,772.41	2,353.00	2,309.05	2,135.99	173.06	13.342 CC			
11,320.60	6,750.00	11,298.36	6,819.00	88.97	84.85	-91.71	-4,772.41	2,353.00	2,309.06	2,135.92	173.14	13.336 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 11H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	11H	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 Draft1	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
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	6.17	0.17	0.00	0.01	-90.34	-90.34	-8.08	-1,379.63	1,379.65				
100.00	100.00	108.46	102.46	0.08	0.15	-90.34	-90.34	-8.13	-1,379.52	1,379.54	1,379.31	0.23	5,957.142	
200.00	200.00	209.61	203.61	0.31	0.42	-90.34	-90.34	-8.23	-1,379.30	1,379.33	1,378.61	0.72	1,903.355	
300.00	300.00	310.96	304.96	0.53	0.68	-90.35	-90.35	-8.37	-1,378.98	1,379.01	1,377.79	1.22	1,131.867	
400.00	400.00	412.69	406.69	0.76	0.95	-90.36	-90.36	-8.57	-1,378.56	1,378.61	1,376.89	1.71	804.775	
500.00	500.00	515.33	509.33	0.98	1.23	-90.37	-90.37	-8.85	-1,377.96	1,378.02	1,375.81	2.21	623.510	
600.00	600.00	618.38	612.37	1.21	1.50	-90.39	-90.39	-9.28	-1,377.16	1,377.24	1,374.53	2.71	508.545	
700.00	700.00	720.84	714.83	1.43	1.77	-90.41	-90.41	-9.86	-1,376.13	1,376.25	1,373.04	3.20	429.609	
800.00	800.00	823.90	817.87	1.66	2.04	-90.45	-90.45	-10.82	-1,374.91	1,375.06	1,371.37	3.70	371.723	
900.00	900.00	928.97	922.93	1.88	2.32	-90.50	-90.50	-11.97	-1,373.34	1,373.59	1,369.39	4.20	326.957	
1,000.00	1,000.00	1,031.50	1,025.43	2.11	2.59	-90.55	-90.55	-13.28	-1,371.52	1,371.82	1,367.12	4.70	292.059	
1,100.00	1,100.00	1,132.28	1,126.18	2.33	2.86	-90.62	-90.62	-14.88	-1,369.60	1,369.93	1,364.75	5.19	264.112	
1,200.00	1,200.00	1,233.31	1,227.17	2.56	3.12	-90.71	-90.71	-16.90	-1,367.64	1,368.02	1,362.34	5.67	241.084	
1,300.00	1,300.00	1,336.89	1,330.68	2.78	3.39	-90.83	-90.83	-19.81	-1,365.35	1,365.84	1,359.67	6.17	221.480	
1,400.00	1,400.00	1,434.54	1,428.27	3.01	3.64	-90.95	-90.95	-22.72	-1,363.20	1,363.68	1,357.04	6.64	205.285	
1,500.00	1,500.00	1,531.30	1,524.97	3.23	3.89	-91.07	-91.07	-25.47	-1,361.24	1,361.70	1,354.59	7.12	191.324	
1,600.00	1,600.00	1,630.79	1,624.42	3.46	4.15	-91.17	-91.17	-27.73	-1,359.49	1,360.00	1,352.39	7.60	178.920	
1,700.00	1,700.00	1,733.62	1,727.21	3.68	4.42	-91.24	-91.24	-29.49	-1,357.41	1,358.01	1,349.91	8.10	167.707	
1,800.00	1,800.00	1,828.71	1,822.28	3.91	4.67	-91.30	-91.30	-30.68	-1,355.60	1,356.13	1,347.56	8.57	158.159	
1,900.00	1,900.00	1,924.10	1,917.65	4.13	4.93	-91.33	-91.33	-31.52	-1,354.23	1,354.71	1,345.66	9.05	149.661	
2,000.00	2,000.00	2,022.38	2,015.92	4.35	5.19	-91.36	-91.36	-32.22	-1,353.00	1,353.47	1,343.94	9.54	141.926	
2,100.00	2,100.00	2,124.67	2,118.20	4.58	5.46	-91.40	-91.40	-32.92	-1,351.75	1,352.28	1,342.24	10.03	134.798	
2,200.00	2,200.00	2,227.09	2,220.61	4.80	5.73	-91.44	-91.44	-33.88	-1,350.22	1,350.81	1,340.28	10.53	128.306	
2,300.00	2,300.00	2,327.58	2,321.08	5.03	5.99	-91.48	-91.48	-34.79	-1,348.84	1,349.26	1,338.24	11.02	122.448	
2,400.00	2,400.00	2,428.48	2,419.96	5.25	6.26	-91.52	-91.52	-35.64	-1,347.11	1,347.72	1,336.22	11.51	117.139	
2,500.00	2,500.00	2,524.41	2,517.88	5.48	6.51	-91.55	-91.55	-36.31	-1,345.71	1,346.32	1,334.33	11.99	112.304	
2,600.00	2,600.00	2,623.84	2,617.30	5.70	6.78	-91.57	-91.57	-36.94	-1,344.40	1,345.02	1,332.54	12.48	107.816	
2,700.00	2,700.00	2,723.23	2,716.68	5.93	7.04	-91.60	-91.60	-37.63	-1,343.12	1,343.75	1,330.79	12.96	103.661	
2,800.00	2,800.00	2,824.36	2,817.80	6.15	7.31	-91.64	-91.64	-38.39	-1,341.81	1,342.47	1,329.02	13.46	99.770	
2,900.00	2,900.00	2,926.48	2,919.90	6.38	7.58	-91.68	-91.68	-39.28	-1,340.33	1,341.05	1,327.10	13.95	96.123	
3,000.00	3,000.00	3,024.58	3,017.99	6.60	7.84	-91.71	-91.71	-40.04	-1,338.93	1,339.64	1,325.21	14.44	92.799	
3,100.00	3,100.00	3,125.14	3,118.54	6.83	8.10	-91.74	-91.74	-40.65	-1,337.56	1,338.30	1,323.38	14.93	89.667	
3,200.00	3,200.00	3,228.99	3,222.38	7.05	8.37	-91.76	-91.76	-41.12	-1,335.96	1,336.78	1,321.36	15.42	86.701	
3,300.00	3,300.00	3,331.23	3,324.60	7.28	8.63	-91.78	-91.78	-41.34	-1,334.10	1,334.97	1,319.07	15.90	83.967	
3,400.00	3,400.00	3,427.57	3,420.92	7.50	8.86	-91.77	-91.77	-41.28	-1,332.41	1,333.22	1,316.86	16.35	81.525	
3,500.00	3,500.00	3,523.42	3,516.77	7.73	9.08	-91.77	-91.77	-41.02	-1,331.12	1,331.86	1,315.06	16.80	79.297	
3,600.00	3,600.00	3,621.77	3,615.10	7.95	9.29	-91.75	-91.75	-40.63	-1,329.94	1,330.64	1,313.41	17.23	77.227	
3,700.00	3,700.00	3,720.15	3,713.48	8.18	9.47	-91.72	-91.72	-39.99	-1,328.92	1,329.59	1,311.94	17.64	75.362	
3,800.00	3,800.00	3,818.96	3,812.28	8.40	9.64	-91.68	-91.68	-39.05	-1,327.98	1,328.61	1,310.58	18.03	73.683	
3,900.00	3,900.00	3,918.66	3,911.97	8.63	9.80	-91.64	-91.64	-37.98	-1,327.12	1,327.72	1,309.30	18.41	72.103	
4,000.00	4,000.00	4,016.27	4,009.57	8.85	9.95	-91.60	-91.60	-37.07	-1,326.31	1,326.86	1,308.07	18.79	70.599	
4,100.00	4,100.00	4,114.91	4,108.21	9.07	10.11	-91.56	-91.56	-36.19	-1,325.71	1,326.23	1,307.06	19.17	69.174	
4,200.00	4,200.00	4,213.44	4,206.73	9.30	10.26	-91.53	-91.53	-35.36	-1,325.16	1,325.65	1,306.10	19.55	67.817	
4,300.00	4,300.00	4,312.48	4,305.77	9.52	10.40	-91.49	-91.49	-34.54	-1,324.72	1,325.19	1,305.27	19.92	66.534	
4,396.62	4,396.62	4,403.58	4,396.62	9.74	10.46	-91.71	-91.71	-39.60	-1,324.16	1,324.75	1,304.56	20.19	65.628 CC	
4,400.00	4,400.00	4,406.32	4,399.34	9.75	10.46	-91.73	-91.73	-39.94	-1,324.15	1,324.75	1,304.56	20.19	65.603 ES	
4,500.00	4,500.00	4,489.48	4,481.30	9.97	10.47	-92.33	-92.33	-53.82	-1,324.29	1,325.52	1,305.09	20.43	64.887	
4,600.00	4,600.00	4,573.74	4,562.16	10.20	10.50	-93.34	-93.34	-77.32	-1,324.66	1,327.45	1,306.76	20.69	64.170	
4,700.00	4,700.00	4,644.00	4,626.69	10.42	10.54	-94.53	-94.53	-104.99	-1,325.47	1,331.64	1,310.66	20.98	63.466	
4,800.00	4,800.00	4,699.94	4,675.66	10.65	10.62	-95.68	-95.68	-131.97	-1,326.73	1,339.06	1,317.76	21.30	62.866	
4,900.00	4,900.00	4,756.14	4,721.95	10.87	10.74	-97.03	-97.03	-163.75	-1,328.42	1,350.27	1,328.60	21.66	62.329	

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 11H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	11H	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 Draft1	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
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,000.00	5,000.00	4,802.00	4,756.71	11.10	10.88	-98.28		-193.59	-1,329.88	1,365.74	1,343.70	22.04	61.965		
5,100.00	5,100.00	4,833.00	4,778.74	11.32	11.00	-99.19		-215.35	-1,331.25	1,366.29	1,363.90	22.39	61.912		
5,200.00	5,200.00	4,865.00	4,800.38	11.55	11.14	-100.16		-238.84	-1,333.27	1,412.21	1,389.45	22.76	62.039		
5,300.00	5,300.00	4,881.70	4,811.08	11.77	11.22	-100.68		-251.59	-1,334.57	1,443.40	1,420.33	23.08	62.552		
5,400.00	5,400.00	4,897.00	4,820.43	12.00	11.30	-101.16		-263.63	-1,335.91	1,479.88	1,456.50	23.38	63.299		
5,500.00	5,500.00	4,928.00	4,838.14	12.22	11.48	-102.17		-288.88	-1,339.01	1,521.33	1,497.55	23.78	63.966		
5,600.00	5,600.00	4,942.98	4,846.15	12.45	11.58	-102.67		-301.43	-1,340.60	1,567.28	1,543.17	24.10	65.025		
5,700.00	5,700.00	4,960.00	4,854.83	12.67	11.69	-103.25		-315.97	-1,342.33	1,617.40	1,592.97	24.43	66.196		
5,800.00	5,800.00	4,981.00	4,869.63	12.90	11.92	-104.30		-343.03	-1,345.49	1,671.41	1,646.54	24.87	67.209		
5,900.00	5,900.00	4,991.00	4,869.63	13.12	11.92	-104.30		-343.03	-1,345.49	1,729.07	1,703.97	25.09	68.905		
6,000.00	6,000.00	5,023.00	4,883.48	13.35	12.18	-105.41		-371.67	-1,348.83	1,790.00	1,764.45	25.55	70.054		
6,100.00	6,100.00	5,023.00	4,883.48	13.57	12.18	-105.41		-371.67	-1,348.83	1,854.03	1,828.25	25.78	71.927		
6,200.00	6,200.00	5,037.02	4,888.99	13.80	12.30	-105.89		-384.48	-1,350.30	1,920.91	1,894.80	26.11	73.567		
6,216.00	6,216.00	5,038.44	4,889.52	13.83	12.31	-105.94		-385.79	-1,350.45	1,931.86	1,905.70	26.16	73.854		
6,250.00	6,249.98	5,041.62	4,890.70	13.90	12.34	71.04		-388.72	-1,350.78	1,955.12	1,929.14	25.98	75.262		
6,300.00	6,299.64	5,054.00	4,895.09	13.98	12.45	65.99		-400.23	-1,352.08	1,988.93	1,962.93	26.00	76.502		
6,350.00	6,348.53	5,054.00	4,895.09	14.07	12.45	61.68		-400.23	-1,352.08	2,021.81	1,995.89	25.92	77.993		
6,400.00	6,396.20	5,054.00	4,895.09	14.16	12.45	57.75		-400.23	-1,352.08	2,053.68	2,027.82	25.86	79.417		
6,450.00	6,442.21	5,054.00	4,895.09	14.25	12.45	54.22		-400.23	-1,352.08	2,084.29	2,058.58	25.71	81.080		
6,500.00	6,486.14	5,072.50	4,900.99	14.33	12.63	50.83		-417.65	-1,354.05	2,113.00	2,087.47	25.53	82.751		
6,550.00	6,527.58	5,086.00	4,904.79	14.44	12.76	47.98		-430.52	-1,355.53	2,140.10	2,114.88	25.23	84.833		
6,600.00	6,586.15	5,086.00	4,904.79	14.57	12.76	45.66		-430.52	-1,355.53	2,165.09	2,140.32	24.76	87.430		
6,650.00	6,601.50	5,100.53	4,908.50	14.74	12.90	43.57		-444.47	-1,357.15	2,187.85	2,163.55	24.29	90.057		
6,700.00	6,633.30	5,117.00	4,912.36	14.94	13.07	41.82		-460.37	-1,359.01	2,208.17	2,184.38	23.79	92.806		
6,750.00	6,661.25	5,117.00	4,912.36	15.18	13.07	40.44		-460.37	-1,359.01	2,225.93	2,202.73	23.20	95.925		
6,800.00	6,685.11	5,136.65	4,916.44	15.46	13.28	39.28		-478.46	-1,361.28	2,240.80	2,218.13	22.77	98.410		
6,850.00	6,704.65	5,149.00	4,918.69	15.78	13.42	38.40		-491.52	-1,362.73	2,253.14	2,230.75	22.39	100.628		
6,900.00	6,719.68	5,163.38	4,921.02	16.15	13.58	37.76		-505.60	-1,364.41	2,262.47	2,240.30	22.17	102.036		
6,950.00	6,730.08	5,181.00	4,923.50	16.56	13.78	37.36		-522.93	-1,366.44	2,268.81	2,246.64	22.17	102.328		
7,000.00	6,735.75	5,197.67	4,925.50	17.00	13.98	37.18		-539.37	-1,368.30	2,272.07	2,249.68	22.39	101.474		
7,030.62	6,736.86	5,212.00	4,926.98	17.29	14.15	37.20		-553.55	-1,369.82	2,272.51	2,249.83	22.68	100.198		
7,043.93	6,736.95	5,212.00	4,926.98	17.42	14.15	37.20		-553.55	-1,369.82	2,272.47	2,249.70	22.77	99.798		
7,100.00	6,737.33	5,244.00	4,929.58	17.99	14.54	37.31		-585.27	-1,373.13	2,272.86	2,249.40	23.46	96.892		
7,200.00	6,738.02	5,257.19	4,930.24	19.10	14.70	37.35		-598.36	-1,374.52	2,275.90	2,251.56	24.34	93.500		
7,300.00	6,738.70	5,275.00	4,930.47	20.32	14.93	37.39		-618.06	-1,378.53	2,282.62	2,257.27	25.34	90.072		
7,400.00	6,739.38	5,309.45	4,929.72	21.62	15.37	37.47		-650.24	-1,380.74	2,292.62	2,266.05	26.57	86.286		
7,500.00	6,740.07	5,472.26	4,930.70	23.00	17.33	37.95		-811.36	-1,403.89	2,301.48	2,272.37	29.11	79.066		
7,600.00	6,740.75	5,553.93	4,932.26	24.44	18.43	38.22		-892.07	-1,416.30	2,310.45	2,279.45	30.99	74.543		
7,700.00	6,741.43	5,812.05	4,933.51	25.92	22.12	38.66		-1,149.13	-1,437.38	2,315.69	2,280.88	34.81	66.516		
7,800.00	6,742.12	5,910.66	4,934.87	27.45	23.56	38.77		-1,247.65	-1,441.68	2,318.35	2,281.40	36.94	62.754		
7,900.00	6,742.80	6,053.19	4,938.65	29.02	25.67	38.97		-1,389.93	-1,448.93	2,320.65	2,281.02	39.63	58.556		
8,000.00	6,743.49	6,112.63	4,940.60	30.61	26.59	39.06		-1,449.27	-1,451.91	2,322.32	2,280.88	41.44	56.040		
8,100.00	6,744.17	6,152.00	4,941.46	32.23	27.19	39.13		-1,488.55	-1,454.39	2,326.00	2,282.96	43.04	54.042		
8,200.00	6,744.85	6,204.71	4,941.74	33.87	28.04	39.21		-1,541.09	-1,458.56	2,331.91	2,287.07	44.84	52.002		
8,300.00	6,745.54	6,247.00	4,941.05	35.53	28.72	39.28		-1,583.17	-1,462.75	2,340.43	2,293.90	46.53	50.295		
8,400.00	6,746.22	6,531.00	4,939.83	37.21	33.23	39.66		-1,866.30	-1,482.93	2,346.45	2,295.31	51.13	45.887		
8,500.00	6,746.90	6,625.00	4,940.81	38.90	34.76	39.73		-1,960.26	-1,485.64	2,348.50	2,295.05	53.45	43.939		
8,600.00	6,747.59	6,675.69	4,941.17	40.60	35.59	39.78		-2,010.90	-1,487.83	2,351.71	2,296.43	55.27	42.547		
8,700.00	6,748.27	6,733.54	4,941.20	42.32	36.53	39.85		-2,068.61	-1,491.74	2,356.95	2,299.73	57.21	41.197		
8,800.00	6,748.95	6,814.00	4,941.30	44.04	37.85	39.98		-2,148.80	-1,498.34	2,363.19	2,303.72	59.47	39.739		

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 11H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	11H	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 Draft1	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		Reference		Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning		
Measured Depth: (usft)	Vertical Depth: (usft)	Measured Depth: (usft)	Vertical Depth: (usft)	Reference (usft)	Offset (usft)	Tooface: (")	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor			
8,900.00	6,749.64	6,909.00	4,941.22	45.77	39.42	40.14	-2,243.42	-1,506.87	2,370.06	2,308.12	61.95	38.260			
9,000.00	6,750.32	7,019.99	4,940.97	47.51	41.26	40.32	-2,353.98	-1,516.57	2,376.92	2,312.28	64.64	36.771			
9,100.00	6,751.01	7,098.00	4,940.73	49.26	42.55	40.44	-2,431.69	-1,523.42	2,383.89	2,316.98	66.92	35.624			
9,200.00	6,751.69	7,157.87	4,940.02	51.01	43.57	40.54	-2,491.27	-1,529.24	2,392.18	2,323.19	68.99	34.676			
9,300.00	6,752.37	7,227.77	4,938.31	52.77	44.76	40.66	-2,560.73	-1,536.92	2,402.14	2,330.94	71.20	33.737			
9,400.00	6,753.06	7,315.26	4,935.87	54.53	46.26	40.80	-2,647.61	-1,546.93	2,412.77	2,339.09	73.68	32.748			
9,500.00	6,753.74	7,420.58	4,932.61	56.30	48.05	40.98	-2,752.12	-1,559.48	2,423.98	2,347.57	76.41	31.725			
9,600.00	6,754.42	7,621.47	4,933.62	58.07	51.34	41.41	-2,951.68	-1,582.34	2,431.67	2,351.17	80.51	30.205			
9,700.00	6,755.11	7,719.20	4,935.88	59.85	52.95	41.64	-3,048.78	-1,593.19	2,438.35	2,355.14	83.21	29.303			
9,800.00	6,755.79	7,807.31	4,938.25	61.62	54.41	41.86	-3,136.27	-1,603.42	2,445.14	2,359.33	85.81	28.493			
9,830.58	6,756.00	7,831.05	4,938.86	62.17	54.81	41.92	-3,159.82	-1,606.32	2,447.38	2,360.81	86.57	28.270			
9,865.93	6,756.05	7,859.25	4,939.56	62.80	55.28	41.95	-3,187.79	-1,609.86	2,449.99	2,362.55	87.44	28.019			
9,900.00	6,756.91	7,894.26	4,940.45	63.40	55.87	42.05	-3,222.50	-1,614.32	2,452.47	2,364.04	88.43	27.734			
10,000.00	6,755.49	7,987.20	4,942.97	65.19	57.43	42.33	-3,314.62	-1,626.34	2,459.78	2,368.58	91.20	26.971			
10,100.00	6,755.07	8,077.66	4,945.39	66.98	58.96	42.61	-3,404.20	-1,638.72	2,467.69	2,373.73	93.96	26.262			
10,200.00	6,754.66	8,177.74	4,948.15	68.77	60.63	42.91	-3,503.31	-1,652.30	2,475.54	2,378.65	96.89	25.550			
10,300.00	6,754.24	8,329.00	4,950.38	70.56	63.13	43.29	-3,653.51	-1,669.94	2,483.36	2,382.82	100.54	24.700			
10,400.00	6,753.83	8,393.36	4,950.70	72.36	64.21	43.41	-3,717.60	-1,675.89	2,489.99	2,387.16	102.83	24.214			
10,500.00	6,753.41	8,489.54	4,949.53	74.16	65.83	43.57	-3,813.37	-1,684.67	2,497.78	2,392.21	105.57	23.659			
10,600.00	6,753.00	8,595.31	4,947.70	75.96	67.61	43.71	-3,918.79	-1,693.05	2,505.11	2,396.69	108.42	23.106			
10,700.00	6,752.58	8,762.68	4,946.72	77.76	70.44	43.91	-4,085.81	-1,703.66	2,510.20	2,398.06	112.13	22.386			
10,800.00	6,752.16	8,829.98	4,946.70	79.56	71.59	44.00	-4,152.97	-1,707.96	2,515.35	2,400.89	114.46	21.976			
10,900.00	6,751.75	8,897.00	4,946.32	81.36	72.74	44.11	-4,219.74	-1,713.75	2,522.25	2,405.42	116.82	21.591			
11,000.00	6,751.33	9,122.53	4,948.21	83.17	76.53	44.51	-4,444.41	-1,732.74	2,529.64	2,408.04	121.59	20.804			
11,100.00	6,750.92	9,243.75	4,953.57	84.98	78.58	44.74	-4,565.33	-1,739.29	2,530.80	2,405.98	124.83	20.275			
11,200.00	6,750.50	9,328.72	4,956.91	86.78	80.04	44.89	-4,650.11	-1,744.11	2,532.64	2,405.13	127.52	19.861			
11,300.00	6,750.09	9,433.71	4,961.41	88.59	81.75	45.10	-4,754.79	-1,750.75	2,534.75	2,404.25	130.50	19.424			
11,320.60	6,750.00	9,454.22	4,962.41	88.97	81.75	45.14	-4,775.22	-1,752.11	2,535.14	2,404.29	130.85	19.374 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 11H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	11H	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 Draft1	Offset TVD Reference:	Reference Datum

Offset Design Lone Tree Draw "13" State - 2H - Pilot - Pilot											Offset Site Error:	0.00 usft
Survey Program: 80-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)	Minimum Separation (usft)	Separation Factor
0.00	0.00	6.17	0.17	0.00	0.01	-90.34	-8.08	-1,379.63	1,379.65			
100.00	100.00	108.46	102.46	0.08	0.15	-90.34	-8.13	-1,379.52	1,379.54	1,379.31	0.23	5,957.124
200.00	200.00	209.61	203.61	0.31	0.42	-90.34	-8.23	-1,379.30	1,379.33	1,378.61	0.72	1,903.355
300.00	300.00	310.96	304.96	0.53	0.68	-90.35	-8.37	-1,378.98	1,379.01	1,377.79	1.22	1,131.867
400.00	400.00	412.69	406.69	0.76	0.95	-90.36	-8.57	-1,378.56	1,378.61	1,376.89	1.71	804.775
500.00	500.00	515.33	509.33	0.98	1.23	-90.37	-8.85	-1,377.96	1,378.02	1,375.81	2.21	623.511
600.00	600.00	618.38	612.37	1.21	1.50	-90.39	-9.28	-1,377.16	1,377.24	1,374.53	2.71	508.545
700.00	700.00	720.84	714.83	1.43	1.77	-90.41	-9.86	-1,376.13	1,376.25	1,373.04	3.20	429.610
800.00	800.00	823.90	817.87	1.66	2.04	-90.45	-10.82	-1,374.91	1,375.06	1,371.37	3.70	371.724
900.00	900.00	928.97	922.93	1.88	2.32	-90.50	-11.97	-1,373.34	1,373.59	1,369.39	4.20	326.959
1,000.00	1,000.00	1,031.50	1,025.43	2.11	2.59	-90.55	-13.28	-1,371.52	1,371.82	1,367.12	4.70	282.061
1,100.00	1,100.00	1,132.28	1,126.18	2.33	2.86	-90.62	-14.88	-1,369.60	1,369.93	1,364.75	5.19	264.114
1,200.00	1,200.00	1,233.31	1,227.17	2.56	3.12	-90.71	-16.90	-1,367.64	1,368.02	1,362.34	5.67	241.067
1,300.00	1,300.00	1,336.89	1,330.68	2.78	3.39	-90.83	-19.81	-1,365.35	1,365.84	1,359.67	6.17	221.483
1,400.00	1,400.00	1,434.54	1,428.27	3.01	3.64	-90.95	-22.72	-1,363.20	1,363.68	1,357.04	6.64	205.289
1,500.00	1,500.00	1,531.30	1,524.97	3.23	3.89	-91.07	-25.47	-1,361.24	1,361.70	1,354.59	7.12	191.329
1,600.00	1,600.00	1,630.79	1,624.42	3.46	4.15	-91.17	-27.73	-1,359.49	1,360.00	1,352.39	7.60	178.925
1,700.00	1,700.00	1,733.62	1,727.21	3.68	4.42	-91.24	-29.49	-1,357.41	1,358.01	1,349.91	8.10	167.712
1,800.00	1,800.00	1,828.71	1,822.28	3.91	4.67	-91.30	-30.68	-1,355.60	1,356.13	1,347.56	8.57	158.164
1,900.00	1,900.00	1,924.10	1,917.65	4.13	4.93	-91.33	-31.52	-1,354.23	1,354.71	1,345.66	9.05	149.666
2,000.00	2,000.00	2,022.38	2,015.92	4.35	5.19	-91.36	-32.22	-1,353.00	1,353.47	1,343.94	9.54	141.930
2,100.00	2,100.00	2,124.67	2,118.20	4.58	5.46	-91.40	-32.92	-1,351.75	1,352.28	1,342.25	10.03	134.802
2,200.00	2,200.00	2,227.09	2,220.61	4.80	5.73	-91.44	-33.88	-1,350.22	1,350.81	1,340.28	10.53	128.309
2,300.00	2,300.00	2,327.58	2,321.08	5.03	5.99	-91.48	-34.79	-1,348.64	1,349.26	1,338.24	11.02	122.451
2,400.00	2,400.00	2,426.48	2,419.96	5.25	6.26	-91.52	-35.64	-1,347.11	1,347.72	1,336.22	11.51	117.143
2,500.00	2,500.00	2,524.41	2,517.88	5.48	6.51	-91.55	-36.31	-1,345.71	1,346.32	1,334.33	11.99	112.307
2,600.00	2,600.00	2,623.84	2,617.30	5.70	6.78	-91.57	-36.94	-1,344.40	1,345.02	1,332.54	12.47	107.819
2,700.00	2,700.00	2,723.23	2,716.68	5.93	7.04	-91.60	-37.63	-1,343.12	1,343.75	1,330.79	12.96	103.664
2,800.00	2,800.00	2,824.36	2,817.80	6.15	7.31	-91.64	-38.39	-1,341.81	1,342.47	1,329.02	13.46	99.772
2,900.00	2,900.00	2,926.48	2,919.90	6.38	7.58	-91.68	-39.28	-1,340.33	1,341.05	1,327.10	13.95	96.125
3,000.00	3,000.00	3,024.58	3,017.99	6.60	7.84	-91.71	-40.04	-1,338.93	1,339.64	1,325.21	14.44	92.802
3,100.00	3,100.00	3,125.14	3,118.54	6.83	8.10	-91.74	-40.85	-1,337.56	1,338.30	1,323.38	14.92	89.670
3,200.00	3,200.00	3,228.99	3,222.38	7.05	8.37	-91.76	-41.12	-1,335.96	1,336.78	1,321.36	15.42	86.703
3,300.00	3,300.00	3,331.23	3,324.60	7.28	8.63	-91.78	-41.34	-1,334.10	1,334.97	1,319.07	15.90	83.969
3,400.00	3,400.00	3,427.57	3,420.92	7.50	8.86	-91.77	-41.28	-1,332.41	1,333.22	1,316.86	16.35	81.527
3,500.00	3,500.00	3,523.42	3,516.77	7.73	9.08	-91.77	-41.02	-1,331.12	1,331.86	1,315.06	16.80	79.299
3,600.00	3,600.00	3,621.77	3,615.10	7.95	9.29	-91.75	-40.63	-1,329.94	1,330.64	1,313.41	17.23	77.228
3,700.00	3,700.00	3,720.15	3,713.48	8.18	9.47	-91.72	-39.99	-1,328.92	1,329.59	1,311.94	17.64	75.364
3,800.00	3,800.00	3,818.96	3,812.28	8.40	9.64	-91.68	-39.05	-1,327.98	1,328.61	1,310.58	18.03	73.684
3,900.00	3,900.00	3,918.66	3,911.97	8.63	9.80	-91.64	-37.98	-1,327.12	1,327.72	1,309.30	18.41	72.105
4,000.00	4,000.00	4,016.27	4,009.57	8.85	9.95	-91.60	-37.07	-1,326.31	1,326.86	1,308.07	18.79	70.601
4,100.00	4,100.00	4,114.91	4,108.21	9.07	10.11	-91.56	-36.19	-1,325.71	1,326.23	1,307.06	19.17	69.175
4,200.00	4,200.00	4,213.44	4,206.73	9.30	10.26	-91.53	-35.36	-1,325.16	1,325.65	1,306.10	19.55	67.819
4,300.00	4,300.00	4,312.48	4,305.77	9.52	10.40	-91.49	-34.54	-1,324.72	1,325.19	1,305.27	19.92	66.535
4,400.00	4,400.00	4,412.23	4,405.52	9.75	10.55	-91.46	-33.73	-1,324.32	1,324.76	1,304.47	20.29	65.294
4,500.00	4,500.00	4,512.51	4,505.79	9.97	10.70	-91.43	-32.96	-1,323.92	1,324.34	1,303.67	20.67	64.074
4,600.00	4,600.00	4,611.73	4,605.01	10.20	10.86	-91.39	-32.19	-1,323.53	1,323.93	1,302.88	21.05	62.899
4,700.00	4,700.00	4,710.42	4,703.69	10.42	11.01	-91.36	-31.44	-1,323.23	1,323.61	1,302.19	21.42	61.791
4,800.00	4,800.00	4,808.02	4,801.29	10.65	11.13	-91.33	-30.71	-1,323.07	1,323.43	1,301.66	21.77	60.782
4,900.00	4,900.00	4,907.64	4,900.90	10.87	11.25	-91.29	-29.87	-1,323.02	1,323.35	1,301.24	22.12	59.838
5,000.00	5,000.00	5,010.26	5,003.52	11.10	11.38	-91.24	-28.71	-1,322.90	1,323.21	1,300.74	22.47	58.886

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 11H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	11H	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 Draft1	Offset TVD Reference:	Reference Datum

Offset Design Lone Tree Draw "13" State - 2H - Pilot - Pilot													Offset Site Error:	0.00 usft
Survey Program: 80-NS-GYRO-MS													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	5,100.00	5,116.48	5,109.73	11.32	11.55	-91.17	-27.06	-1,322.37	1,322.68	1,299.82	22.86	57.861		
5,200.00	5,200.00	5,219.17	5,212.39	11.55	11.72	-91.09	-25.16	-1,321.54	1,321.83	1,298.57	23.26	56.822		
5,300.00	5,300.00	5,318.30	5,311.50	11.77	11.90	-91.00	-23.16	-1,320.61	1,320.87	1,297.20	23.66	55.818		
5,400.00	5,400.00	5,415.16	5,408.34	12.00	12.07	-90.92	-21.29	-1,319.95	1,320.15	1,296.09	24.06	54.877		
5,500.00	5,500.00	5,515.04	5,508.20	12.22	12.24	-90.84	-19.29	-1,319.38	1,319.54	1,295.09	24.45	53.967		
5,600.00	5,600.00	5,614.06	5,607.20	12.45	12.41	-90.76	-17.45	-1,318.79	1,318.93	1,294.08	24.85	53.077		
5,700.00	5,700.00	5,716.10	5,709.23	12.67	12.61	-90.70	-16.21	-1,318.25	1,318.38	1,293.10	25.28	52.160		
5,800.00	5,800.00	5,816.57	5,809.69	12.80	12.85	-90.69	-15.79	-1,317.47	1,317.60	1,291.87	25.73	51.204		
5,900.00	5,900.00	5,914.63	5,907.75	13.12	13.06	-90.71	-16.31	-1,316.81	1,316.94	1,290.76	26.18	50.311		
6,000.00	6,000.00	6,009.37	6,002.49	13.35	13.23	-90.76	-17.38	-1,316.40	1,316.52	1,289.95	26.57	49.547		
6,039.41	6,039.41	6,046.30	6,039.41	13.43	13.29	-90.78	-17.89	-1,316.36	1,316.48	1,289.76	26.72	49.277	CC	
6,100.00	6,100.00	6,103.13	6,096.24	13.57	13.36	-90.81	-18.70	-1,316.43	1,316.57	1,289.64	26.92	48.900	ES	
6,200.00	6,200.00	6,195.34	6,188.44	13.80	13.45	-90.87	-19.99	-1,316.93	1,317.13	1,289.89	27.24	48.357		
6,216.00	6,216.00	6,210.00	6,203.10	13.83	13.46	-90.88	-20.18	-1,317.06	1,317.28	1,289.99	27.29	48.276		
6,250.00	6,249.98	6,239.09	6,232.18	13.90	13.48	89.55	-20.53	-1,317.39	1,317.66	1,290.29	27.37	48.142		
6,300.00	6,299.64	6,279.60	6,272.68	13.98	13.50	89.64	-20.89	-1,318.07	1,318.47	1,291.00	27.47	47.999		
6,350.00	6,348.53	6,316.92	6,309.99	14.07	13.52	89.83	-21.09	-1,318.95	1,319.65	1,292.09	27.57	47.874		
6,400.00	6,396.20	6,364.50	6,357.55	14.16	13.53	90.27	-21.39	-1,320.29	1,321.14	1,293.48	27.66	47.759		
6,450.00	6,442.21	6,407.80	6,400.83	14.25	13.55	90.78	-21.80	-1,321.61	1,322.99	1,295.22	27.76	47.650		
6,500.00	6,486.14	6,456.44	6,449.44	14.33	13.57	91.51	-22.68	-1,323.08	1,325.22	1,297.33	27.89	47.521		
6,550.00	6,527.58	6,503.23	6,496.20	14.44	13.60	92.31	-23.56	-1,324.32	1,327.90	1,299.87	28.02	47.387		
6,600.00	6,566.15	6,542.83	6,535.78	14.57	13.62	92.99	-24.41	-1,325.30	1,331.31	1,303.13	28.18	47.242		
6,650.00	6,601.50	6,579.12	6,572.06	14.74	13.65	93.57	-25.26	-1,326.20	1,335.77	1,307.41	28.36	47.097		
6,700.00	6,633.30	6,613.06	6,605.97	14.94	13.67	94.04	-26.11	-1,327.04	1,341.47	1,312.90	28.57	46.947		
6,750.00	6,661.25	6,644.63	6,637.53	15.18	13.70	94.35	-26.86	-1,327.76	1,348.58	1,319.76	28.83	46.784		
6,800.00	6,685.11	6,671.63	6,664.51	15.46	13.72	94.39	-27.44	-1,328.32	1,357.27	1,328.15	29.12	46.609		
6,850.00	6,704.65	6,693.84	6,686.71	15.78	13.74	94.09	-27.89	-1,328.74	1,367.68	1,338.22	29.46	46.418		
6,900.00	6,719.68	6,710.04	6,702.91	16.15	13.75	93.36	-28.21	-1,329.03	1,379.89	1,350.03	29.86	46.214		
6,950.00	6,730.08	6,721.46	6,714.33	16.56	13.76	92.23	-28.42	-1,329.23	1,393.92	1,363.62	30.30	46.011		
7,000.00	6,735.75	6,728.09	6,720.95	17.00	13.76	90.69	-28.54	-1,329.34	1,409.70	1,378.94	30.76	45.830		
7,030.62	6,736.86	6,729.76	6,722.62	17.29	13.77	89.53	-28.57	-1,329.37	1,420.17	1,389.12	31.05	45.743		
7,100.00	6,737.33	6,731.49	6,724.35	17.99	13.77	89.61	-28.60	-1,329.40	1,446.01	1,414.26	31.75	45.546		
7,200.00	6,738.02	6,733.97	6,726.83	19.10	13.77	89.71	-28.65	-1,329.44	1,488.16	1,455.29	32.86	45.282		
7,300.00	6,738.70	6,736.43	6,729.29	20.32	13.77	89.82	-28.69	-1,329.49	1,535.67	1,501.58	34.08	45.055		
7,400.00	6,739.38	6,738.87	6,731.73	21.62	13.77	89.93	-28.74	-1,329.53	1,588.05	1,552.66	35.39	44.871		
7,500.00	6,740.07	6,741.29	6,734.15	23.00	13.78	90.03	-28.78	-1,329.57	1,644.86	1,608.09	36.77	44.733		
7,600.00	6,740.75	6,743.69	6,736.55	24.44	13.78	90.13	-28.82	-1,329.61	1,705.63	1,667.42	38.21	44.638		
7,700.00	6,741.43	6,746.08	6,738.94	25.92	13.78	90.24	-28.86	-1,329.65	1,769.97	1,730.27	39.70	44.585		
7,800.00	6,742.12	6,748.45	6,741.30	27.45	13.78	90.34	-28.90	-1,329.69	1,837.49	1,796.26	41.23	44.567	SF	
7,900.00	6,742.80	6,750.80	6,743.65	29.02	13.78	90.44	-28.95	-1,329.73	1,907.87	1,865.08	42.80	44.581		
8,000.00	6,743.49	6,753.13	6,745.99	30.61	13.78	90.54	-28.99	-1,329.77	1,980.80	1,936.40	44.39	44.621		
8,100.00	6,744.17	6,755.45	6,748.30	32.23	13.79	90.64	-29.03	-1,329.81	2,056.00	2,009.98	46.01	44.683		
8,200.00	6,744.85	6,757.75	6,750.60	33.87	13.79	90.74	-29.06	-1,329.85	2,133.23	2,085.58	47.66	44.764		
8,300.00	6,745.54	6,760.03	6,752.88	35.53	13.79	90.84	-29.10	-1,329.89	2,212.29	2,162.97	49.32	44.859		
8,400.00	6,746.22	6,762.29	6,755.15	37.21	13.79	90.93	-29.14	-1,329.92	2,292.98	2,241.99	50.99	44.966		
8,500.00	6,746.90	6,764.54	6,757.39	38.90	13.79	91.03	-29.18	-1,329.96	2,375.14	2,322.45	52.68	45.082		
8,600.00	6,747.59	6,766.77	6,759.62	40.60	13.80	91.13	-29.22	-1,330.00	2,458.62	2,404.23	54.39	45.205		
8,700.00	6,748.27	6,768.99	6,761.84	42.32	13.80	91.22	-29.25	-1,330.04	2,543.28	2,487.18	56.10	45.333		
8,800.00	6,748.95	6,771.19	6,764.04	44.04	13.80	91.32	-29.29	-1,330.07	2,629.03	2,571.20	57.83	45.465		
8,900.00	6,749.64	6,773.37	6,766.22	45.77	13.80	91.41	-29.33	-1,330.11	2,715.74	2,656.19	59.56	45.599		

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 11H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	11H	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 Draft1	Offset TVD Reference:	Reference Datum

Offset Design Lone Tree Draw "13" State - 2H - Pilot - Pilot														Offset Site Error:	0.00 usft
Survey Program: 80-NS-GYRO-MS														Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
9,000.00	6,750.32	6,775.54	6,758.39	47.51	13.80	91.50	-29.36	-1,330.14	2,803.34	2,742.05	61.30	45.734			
9,100.00	6,751.01	6,777.70	6,770.54	49.26	13.81	91.60	-29.40	-1,330.18	2,891.75	2,828.71	63.04	45.870			
9,200.00	6,751.69	6,778.83	6,772.68	51.01	13.81	91.69	-29.43	-1,330.22	2,980.88	2,916.09	64.79	46.006			
9,300.00	6,752.37	6,781.96	6,774.80	52.77	13.81	91.78	-29.47	-1,330.25	3,070.68	3,004.13	66.55	46.141			
9,400.00	6,753.06	6,784.06	6,776.91	54.53	13.81	91.87	-29.50	-1,330.28	3,161.10	3,092.78	68.31	46.275			
9,500.00	6,753.74	6,789.42	6,782.26	56.30	13.81	92.10	-29.59	-1,330.37	3,252.07	3,182.00	70.08	46.408			
9,600.00	6,754.42	6,789.42	6,782.26	58.07	13.81	92.10	-29.59	-1,330.37	3,343.56	3,271.71	71.85	46.538			
9,700.00	6,755.11	6,789.42	6,782.26	59.85	13.81	92.10	-29.59	-1,330.37	3,435.52	3,361.90	73.62	46.665			
9,800.00	6,755.79	6,789.42	6,782.26	61.62	13.81	92.10	-29.59	-1,330.37	3,527.91	3,452.52	75.40	46.791			
9,830.58	6,756.00	6,793.04	6,785.88	62.17	13.82	92.26	-29.64	-1,330.43	3,556.25	3,480.31	75.94	46.831			
9,865.93	6,756.05	6,793.60	6,786.44	62.80	13.82	90.72	-29.65	-1,330.44	3,589.09	3,512.48	76.61	46.851			
9,900.00	6,755.91	6,793.97	6,786.81	63.40	13.82	90.74	-29.66	-1,330.45	3,620.82	3,543.61	77.21	46.895			
10,000.00	6,755.49	6,795.04	6,787.88	65.19	13.82	90.78	-29.68	-1,330.46	3,714.20	3,635.20	79.00	47.016			
10,100.00	6,755.07	6,796.12	6,788.96	66.98	13.82	90.83	-29.69	-1,330.48	3,807.92	3,727.13	80.79	47.135			
10,200.00	6,754.66	6,797.20	6,790.04	68.77	13.82	90.88	-29.71	-1,330.50	3,901.94	3,819.37	82.58	47.251			
10,300.00	6,754.24	6,798.29	6,791.13	70.56	13.82	90.93	-29.73	-1,330.52	3,996.26	3,911.89	84.37	47.364			
10,400.00	6,753.83	6,799.38	6,792.22	72.35	13.82	90.97	-29.75	-1,330.54	4,090.85	4,004.68	86.17	47.475			
10,500.00	6,753.41	6,800.47	6,793.31	74.16	13.82	91.02	-29.76	-1,330.56	4,185.68	4,097.72	87.97	47.583			
10,600.00	6,753.00	6,801.57	6,794.41	75.96	13.82	91.07	-29.78	-1,330.58	4,280.76	4,190.99	89.76	47.689			
10,700.00	6,752.58	6,802.67	6,795.51	77.76	13.83	91.12	-29.80	-1,330.60	4,376.05	4,284.48	91.57	47.792			
10,800.00	6,752.16	6,803.77	6,796.61	79.56	13.83	91.16	-29.82	-1,330.62	4,471.55	4,378.18	93.37	47.892			
10,900.00	6,751.75	6,804.88	6,797.72	81.36	13.83	91.21	-29.83	-1,330.63	4,567.24	4,472.06	95.17	47.990			
11,000.00	6,751.33	6,805.99	6,798.83	83.17	13.83	91.26	-29.85	-1,330.65	4,663.11	4,566.13	96.98	48.085			
11,100.00	6,750.92	6,807.11	6,799.95	84.98	13.83	91.31	-29.87	-1,330.67	4,759.15	4,660.36	98.78	48.178			
11,200.00	6,750.50	6,808.22	6,801.06	86.78	13.83	91.36	-29.89	-1,330.70	4,855.34	4,754.76	100.59	48.269			
11,300.00	6,750.09	6,809.35	6,802.19	88.59	13.83	91.41	-29.91	-1,330.72	4,951.69	4,849.30	102.40	48.358			
11,320.60	6,750.00	6,809.58	6,802.42	88.97	13.83	91.42	-29.91	-1,330.72	4,971.56	4,868.79	102.77	48.376			

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

Leam Drilling Systems LLC

Anticollision Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 11H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	11H	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 Draft1	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	Offset	Semi Major Axis		Distance		Minimum Separation		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	7.00	0.00	0.00	89.64	5.29	848.48	848.53				
100.00	100.00	87.21	94.20	0.08	0.08	89.61	5.72	848.92	848.96	848.79	0.17	5,092.533	
200.00	200.00	185.99	192.98	0.31	0.30	89.60	5.91	849.68	849.73	849.12	0.61	1,387.695	
300.00	300.00	286.01	293.00	0.53	0.56	89.61	5.81	850.51	850.56	849.47	1.10	775.005	
400.00	400.00	386.19	393.18	0.76	0.83	89.61	5.82	851.33	851.38	849.79	1.59	536.408	
500.00	500.00	486.08	493.07	0.98	1.09	89.61	5.81	852.13	852.18	850.11	2.08	410.507	
600.00	600.00	586.55	593.53	1.21	1.35	89.62	5.62	852.94	852.98	850.42	2.56	333.296	
700.00	700.00	691.51	698.49	1.43	1.56	89.60	6.00	853.49	853.51	850.51	3.00	284.893	
800.00	800.00	799.18	806.16	1.66	1.66	89.56	6.54	853.06	853.11	849.79	3.32	257.273	
900.00	900.00	895.11	902.08	1.88	1.73	89.59	6.07	852.43	852.45	848.84	3.61	236.179	
918.31	918.31	911.34	918.31	1.92	1.75	89.60	5.93	852.41	852.43	848.76	3.67	232.215	
1,000.00	1,000.00	988.17	995.14	2.11	1.87	89.65	5.17	852.76	852.79	848.81	3.98	214.250	
1,100.00	1,100.00	1,089.88	1,096.84	2.33	2.09	89.70	4.46	853.25	853.26	848.84	4.43	192.802	
1,200.00	1,200.00	1,190.65	1,197.61	2.56	2.33	89.72	4.10	853.54	853.55	848.67	4.89	174.695	
1,300.00	1,300.00	1,290.38	1,297.34	2.78	2.58	89.74	3.88	853.84	853.85	848.49	5.36	159.357	
1,400.00	1,400.00	1,389.75	1,396.71	3.01	2.83	89.75	3.69	854.18	854.19	848.35	5.84	146.371	
1,500.00	1,500.00	1,489.27	1,496.23	3.23	3.08	89.78	3.34	854.60	854.61	848.30	6.31	135.407	
1,600.00	1,600.00	1,590.88	1,597.83	3.46	3.32	89.81	2.81	854.98	854.99	848.21	6.78	126.106	
1,700.00	1,700.00	1,692.97	1,699.93	3.68	3.54	89.85	2.24	855.11	855.12	847.89	7.22	118.363	
1,800.00	1,800.00	1,796.21	1,803.17	3.91	3.71	89.88	1.78	854.93	854.94	847.33	7.61	112.310	
1,900.00	1,900.00	1,896.95	1,903.90	4.13	3.79	89.89	1.67	854.51	854.52	846.61	7.92	107.917	
2,000.00	2,000.00	1,997.57	2,004.52	4.35	3.85	89.88	1.74	854.02	854.03	845.83	8.21	104.076	
2,100.00	2,100.00	2,098.43	2,105.38	4.58	3.93	89.88	1.84	853.44	853.46	844.95	8.51	100.294	
2,200.00	2,200.00	2,199.44	2,206.39	4.80	4.02	89.87	1.98	852.74	852.76	843.94	8.83	96.594	
2,300.00	2,300.00	2,299.65	2,306.59	5.03	4.13	89.85	2.22	851.95	851.98	842.82	9.16	93.034	
2,400.00	2,400.00	2,398.51	2,405.45	5.25	4.24	89.83	2.50	851.26	851.26	841.77	9.50	89.651	
2,500.00	2,500.00	2,497.80	2,504.74	5.48	4.37	89.81	2.83	850.67	850.69	840.84	9.85	86.406	
2,600.00	2,600.00	2,597.46	2,604.40	5.70	4.51	89.80	2.95	850.12	850.14	839.92	10.22	83.221	
2,700.00	2,700.00	2,698.17	2,705.11	5.93	4.68	89.80	2.94	849.59	849.61	839.01	10.60	80.128	
2,800.00	2,800.00	2,799.01	2,805.95	6.15	4.84	89.79	3.16	848.92	848.95	837.95	10.99	77.235	
2,900.00	2,900.00	2,901.79	2,908.72	6.38	5.01	89.76	3.55	848.06	848.12	836.73	11.39	74.472	
3,000.00	3,000.00	3,004.55	3,011.47	6.60	5.20	89.76	3.59	846.83	846.92	835.11	11.80	71.753	
3,100.00	3,100.00	3,101.59	3,108.50	6.83	5.40	89.78	3.27	845.67	845.72	833.49	12.22	69.193	
3,200.00	3,200.00	3,198.50	3,205.41	7.05	5.60	89.81	2.83	844.89	844.91	832.26	12.65	66.787	
3,300.00	3,300.00	3,298.32	3,305.23	7.28	5.79	89.80	2.96	844.23	844.25	831.18	13.07	64.612	
3,348.99	3,348.99	3,342.09	3,348.99	7.39	5.86	89.78	3.28	844.09	844.10	830.85	13.24	63.737 CC	
3,400.00	3,400.00	3,387.93	3,394.83	7.50	5.93	89.75	3.70	844.24	844.26	830.83	13.43	62.876	
3,500.00	3,500.00	3,489.33	3,496.22	7.73	6.06	89.70	4.48	844.77	844.79	831.00	13.79	61.265	
3,600.00	3,600.00	3,590.91	3,597.81	7.95	6.21	89.67	4.89	845.11	845.13	830.97	14.16	59.690	
3,700.00	3,700.00	3,691.04	3,697.93	8.18	6.36	89.65	5.13	845.36	845.38	830.85	14.53	58.169	
3,800.00	3,800.00	3,791.51	3,798.40	8.40	6.52	89.64	5.32	845.60	845.61	830.70	14.92	56.692	
3,900.00	3,900.00	3,892.92	3,899.82	8.63	6.69	89.62	5.59	845.70	845.72	830.41	15.31	55.237	
4,000.00	4,000.00	3,994.06	4,000.96	8.85	6.87	89.60	5.88	845.64	845.66	829.95	15.72	53.806	
4,100.00	4,100.00	4,094.85	4,101.75	9.07	7.06	89.58	6.24	845.48	845.51	829.38	16.13	52.417	
4,200.00	4,200.00	4,195.59	4,202.49	9.30	7.25	89.55	6.61	845.22	845.25	828.70	16.55	51.072	
4,300.00	4,300.00	4,296.34	4,303.23	9.52	7.45	89.53	6.94	844.88	844.92	827.94	16.97	49.775	
4,367.55	4,367.55	4,363.37	4,370.26	9.68	7.54	89.52	7.06	844.63	844.66	827.45	17.22	49.054 ES	
4,400.00	4,400.00	4,369.00	4,375.89	9.75	7.55	89.52	7.06	844.61	844.69	827.69	17.30	48.850	
4,500.00	4,500.00	4,480.00	4,486.56	9.97	7.56	89.91	1.29	848.66	848.77	831.24	17.53	48.418	
4,600.00	4,600.00	4,572.58	4,577.66	10.20	7.59	91.00	-14.87	849.72	850.14	832.37	17.78	47.826	
4,700.00	4,700.00	4,642.10	4,643.89	10.42	7.63	92.40	-35.69	852.23	854.82	836.78	18.04	47.377	

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 11H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	11H	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 Draft1	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	Offset	Semi Major Axis		Distance		Minimum Separation		Separation Factor		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
4,800.00	4,800.00	4,700.89	4,697.09	10.65	7.69	94.04	-60.39	855.57	863.85	845.51	18.34	47.102			
4,900.00	4,900.00	4,751.00	4,740.10	10.87	7.79	95.69	-85.69	859.96	878.89	860.22	18.66	47.093			
5,000.00	5,000.00	4,782.00	4,765.61	11.10	7.88	96.79	-102.91	863.70	900.83	881.86	18.97	47.485			
5,100.00	5,100.00	4,825.28	4,799.27	11.32	8.04	98.45	-129.29	870.19	929.72	910.37	19.35	48.058			
5,200.00	5,200.00	4,858.44	4,824.01	11.55	8.20	99.85	-152.09	876.08	965.41	945.69	19.71	48.971			
5,300.00	5,300.00	4,889.91	4,844.68	11.77	8.37	101.15	-173.73	881.78	1,007.49	987.41	20.09	50.158			
5,400.00	5,400.00	4,910.00	4,857.57	12.00	8.49	102.02	-188.60	885.83	1,055.70	1,035.28	20.42	51.710			
5,500.00	5,500.00	4,942.00	4,876.92	12.22	8.72	103.43	-213.17	892.58	1,109.22	1,088.40	20.83	53.260			
5,600.00	5,600.00	4,973.00	4,894.22	12.45	8.97	104.82	-237.93	899.55	1,167.87	1,146.62	21.25	54.962			
5,700.00	5,700.00	4,983.93	4,899.98	12.67	9.06	105.30	-246.86	902.11	1,230.77	1,209.22	21.55	57.115			
5,800.00	5,800.00	5,005.00	4,910.55	12.90	9.25	106.25	-264.40	907.04	1,297.59	1,275.67	21.91	59.211			
5,900.00	5,900.00	5,021.62	4,918.43	13.12	9.42	107.00	-278.51	910.94	1,367.79	1,345.53	22.26	61.450			
6,000.00	6,000.00	5,037.00	4,925.36	13.35	9.57	107.69	-291.74	914.59	1,440.99	1,418.40	22.59	63.788			
6,100.00	6,100.00	5,052.47	4,931.99	13.57	9.74	108.38	-305.21	918.30	1,516.80	1,493.87	22.93	66.145			
6,200.00	6,200.00	5,068.00	4,938.32	13.80	9.90	109.08	-318.89	922.05	1,594.90	1,571.63	23.27	68.540			
6,216.00	6,216.00	5,068.00	4,938.32	13.83	9.90	109.08	-318.89	922.05	1,607.59	1,584.28	23.31	68.979			
6,250.00	6,249.98	5,068.00	4,938.32	13.90	9.90	-65.98	-318.89	922.05	1,634.50	1,610.98	23.53	69.479			
6,300.00	6,299.64	5,081.28	4,943.45	13.98	10.05	-59.45	-330.72	925.24	1,673.37	1,649.80	23.57	70.999			
6,350.00	6,348.53	5,099.00	4,949.88	14.07	10.26	-53.67	-346.70	929.41	1,711.25	1,687.66	23.58	72.548			
6,400.00	6,396.20	5,099.00	4,949.88	14.16	10.26	-49.12	-346.70	929.41	1,747.60	1,724.18	23.43	74.603			
6,450.00	6,442.21	5,112.90	4,954.61	14.25	10.42	-45.00	-359.38	932.60	1,782.31	1,759.06	23.25	76.656			
6,500.00	6,486.14	5,131.00	4,960.38	14.33	10.64	-41.53	-376.05	936.60	1,815.04	1,792.05	22.99	78.945			
6,550.00	6,527.58	5,143.04	4,964.00	14.44	10.79	-38.70	-387.25	939.15	1,845.49	1,822.88	22.60	81.647			
6,600.00	6,586.15	5,163.00	4,969.63	14.57	11.04	-36.31	-405.98	943.12	1,873.41	1,851.24	22.17	84.491			
6,650.00	6,601.50	5,177.98	4,973.52	14.74	11.23	-34.38	-420.18	945.87	1,898.63	1,876.97	21.66	87.654			
6,700.00	6,633.30	5,195.00	4,977.55	14.94	11.45	-32.80	-436.46	948.78	1,921.01	1,899.88	21.13	90.908			
6,750.00	6,661.25	5,195.00	4,977.55	15.18	11.45	-31.55	-436.46	948.78	1,940.60	1,920.10	20.50	94.679			
6,800.00	6,685.11	5,227.00	4,983.72	15.46	11.89	-30.54	-467.45	953.80	1,957.05	1,936.90	20.15	97.146			
6,850.00	6,704.65	5,227.00	4,983.72	15.78	11.89	-29.77	-467.45	953.80	1,970.39	1,950.74	19.65	100.291			
6,900.00	6,719.68	5,242.22	4,985.95	16.15	12.10	-29.22	-482.34	956.03	1,980.65	1,961.23	19.42	101.999			
6,950.00	6,730.08	5,259.00	4,987.89	16.56	12.34	-28.88	-498.84	958.34	1,987.73	1,968.33	19.40	102.481			
7,000.00	6,735.75	5,259.00	4,987.89	17.00	12.34	-28.67	-498.84	958.34	1,991.59	1,972.16	19.43	102.507			
7,030.62	6,736.86	5,273.35	4,989.09	17.29	12.55	-28.68	-513.02	960.24	1,992.27	1,972.56	19.71	101.063			
7,100.00	6,737.33	5,291.00	4,990.00	17.99	12.81	-28.75	-530.49	962.53	1,993.52	1,973.22	20.31	98.165			
7,200.00	6,738.02	5,309.00	4,990.38	19.10	13.08	-28.81	-548.33	964.89	1,998.55	1,977.40	21.16	94.471			
7,300.00	6,738.70	5,379.81	4,990.44	20.32	14.15	-29.06	-618.35	975.45	2,006.11	1,983.45	22.66	88.534			
7,400.00	6,739.38	5,501.97	4,991.88	21.62	15.96	-29.56	-738.68	996.42	2,013.69	1,988.85	24.85	81.037			
7,500.00	6,740.07	5,583.64	4,992.83	23.00	17.24	-29.92	-818.03	1,011.02	2,021.83	1,995.15	26.68	75.776			
7,600.00	6,740.75	5,685.35	4,993.80	24.44	18.88	-30.35	-919.08	1,029.24	2,030.30	2,001.45	28.85	70.382			
7,700.00	6,741.43	5,802.83	4,997.19	25.92	20.75	-30.95	-1,034.02	1,053.32	2,038.64	2,007.30	31.33	65.065			
7,800.00	6,742.12	5,893.47	5,000.81	27.45	22.23	-31.42	-1,122.67	1,071.85	2,046.16	2,012.62	33.55	60.997			
7,900.00	6,742.80	5,966.25	5,001.71	29.02	23.46	-31.74	-1,194.16	1,085.43	2,055.13	2,018.59	35.54	57.831			
8,000.00	6,743.49	6,118.00	4,998.42	30.61	26.04	-32.13	-1,344.45	1,105.72	2,064.68	2,026.16	38.52	53.597			
8,100.00	6,744.17	6,194.44	4,996.29	32.23	27.31	-32.24	-1,420.54	1,112.75	2,072.17	2,031.68	40.49	51.181			
8,200.00	6,744.85	6,283.72	4,993.92	33.87	28.80	-32.42	-1,509.19	1,123.06	2,080.75	2,038.08	42.67	48.762			
8,300.00	6,745.54	6,415.55	4,992.02	35.53	30.99	-32.74	-1,639.99	1,139.28	2,088.81	2,043.34	45.47	45.938			
8,400.00	6,746.22	6,523.90	4,993.43	37.21	32.83	-33.10	-1,747.13	1,155.32	2,095.99	2,047.89	48.09	43.583			
8,500.00	6,746.90	6,695.14	4,998.27	38.90	35.74	-33.64	-1,916.75	1,178.17	2,101.16	2,049.52	51.65	40.682			
8,600.00	6,747.59	6,780.00	4,999.13	40.60	37.19	-33.78	-2,001.33	1,184.80	2,104.84	2,050.96	53.88	39.065			
8,700.00	6,748.27	6,863.59	4,997.04	42.32	38.62	-33.80	-2,084.83	1,188.07	2,109.26	2,053.26	56.00	37.666			

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

Leam Drilling Systems LLC

Anticollision Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 11H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	11H	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 Draft1	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	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			
8,800.00	6,748.95	6,953.64	4,992.24	44.04	40.16	-33.73	-2,174.74	1,189.15	2,114.50	2,056.39	58.11	36.387			
8,900.00	6,749.64	7,110.67	4,985.21	45.77	42.76	-33.60	-2,331.60	1,190.07	2,118.75	2,057.84	60.92	34.782			
9,000.00	6,750.32	7,224.22	4,983.55	47.51	44.62	-33.58	-2,445.12	1,191.69	2,120.87	2,057.55	63.32	33.493			
9,100.00	6,751.01	7,317.63	4,984.33	49.26	46.20	-33.67	-2,538.40	1,196.41	2,123.12	2,057.47	65.64	32.343			
9,200.00	6,751.69	7,421.14	4,985.32	51.01	47.97	-33.79	-2,641.75	1,202.12	2,125.54	2,057.41	68.13	31.198			
9,300.00	6,752.37	7,556.56	4,987.13	52.77	50.27	-33.91	-2,777.03	1,207.95	2,126.96	2,055.96	71.00	29.955			
9,400.00	6,753.06	7,661.11	4,988.42	54.53	52.05	-33.96	-2,881.54	1,210.68	2,127.54	2,054.10	73.45	28.967			
9,467.50	6,753.52	7,730.00	4,989.66	55.72	53.22	-34.00	-2,950.39	1,212.40	2,127.56	2,052.48	75.09	28.335			
9,500.00	6,753.74	7,759.57	4,990.32	56.30	53.72	-34.02	-2,979.94	1,213.34	2,127.59	2,051.76	75.84	28.055			
9,600.00	6,754.42	7,825.00	4,991.41	58.07	54.83	-34.09	-3,045.29	1,216.30	2,128.87	2,051.03	77.84	27.348			
9,700.00	6,755.11	7,914.34	4,992.52	59.85	56.36	-34.19	-3,134.48	1,221.45	2,131.21	2,051.01	80.20	26.573			
9,800.00	6,755.79	8,084.66	4,995.90	61.62	59.25	-34.36	-3,304.58	1,228.90	2,132.19	2,048.58	83.61	25.501			
9,830.58	6,756.00	8,125.43	4,996.61	62.17	59.94	-34.37	-3,345.35	1,229.08	2,131.86	2,047.40	84.45	25.243			
9,865.93	6,756.05	8,161.58	4,996.90	62.80	60.56	-34.35	-3,381.49	1,228.65	2,131.21	2,045.88	85.33	24.976			
9,900.00	6,755.91	8,196.39	4,996.85	63.40	61.15	-34.32	-3,416.29	1,227.73	2,130.37	2,044.27	86.10	24.744			
10,000.00	6,755.49	8,320.00	4,995.72	65.19	63.23	-34.14	-3,539.73	1,221.65	2,127.26	2,038.81	88.45	24.051			
10,100.00	6,755.07	8,424.33	4,994.95	66.98	64.96	-33.97	-3,643.90	1,215.73	2,123.59	2,033.02	90.57	23.447			
10,200.00	6,754.66	8,526.19	4,996.63	68.77	66.66	-33.92	-3,745.70	1,213.05	2,119.67	2,026.84	92.82	22.835			
10,300.00	6,754.24	8,610.70	4,999.99	70.56	68.09	-33.97	-3,830.13	1,214.17	2,116.04	2,020.97	95.07	22.258			
10,400.00	6,753.83	8,678.00	5,002.57	72.36	69.24	-34.04	-3,897.35	1,216.25	2,113.56	2,016.42	97.14	21.758			
10,500.00	6,753.41	8,750.87	5,004.27	74.16	70.49	-34.11	-3,970.15	1,218.74	2,112.48	2,013.20	99.28	21.278			
10,527.49	6,753.30	8,773.00	5,004.47	74.65	70.87	-34.12	-3,992.27	1,219.43	2,112.46	2,012.57	99.89	21.149			
10,600.00	6,753.00	8,826.17	5,004.50	75.96	71.79	-34.14	-4,045.42	1,221.00	2,112.80	2,011.39	101.41	20.834			
10,700.00	6,752.58	8,904.03	5,003.64	77.76	73.14	-34.16	-4,123.24	1,223.12	2,114.17	2,010.62	103.55	20.417			
10,800.00	6,752.16	8,984.03	5,001.61	79.56	74.53	-34.16	-4,203.19	1,225.16	2,116.60	2,010.92	105.68	20.029			
10,900.00	6,751.75	9,076.52	4,999.52	81.36	76.13	-34.19	-4,295.57	1,228.94	2,119.67	2,011.65	108.02	19.623			
11,000.00	6,751.33	9,178.01	4,997.13	83.17	77.90	-34.22	-4,396.95	1,233.01	2,122.78	2,012.31	110.47	19.215			
11,100.00	6,750.92	9,273.96	4,994.47	84.98	79.57	-34.23	-4,492.81	1,236.51	2,126.02	2,013.19	112.84	18.841			
11,200.00	6,750.50	9,373.07	4,991.65	86.78	81.30	-34.25	-4,591.81	1,240.12	2,129.34	2,014.10	115.24	18.477			
11,300.00	6,750.09	9,473.83	4,988.70	88.59	83.05	-34.26	-4,692.46	1,243.79	2,132.73	2,015.06	117.66	18.126			
11,320.60	6,750.00	9,495.81	4,988.08	88.97	83.42	-34.26	-4,714.41	1,244.60	2,133.40	2,015.23	118.17	18.053 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 11H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	11H	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 Draft1	Offset TVD Reference:	Reference Datum

Offset Design												Offset Site Error:	0.00 usft
Lone Tree Draw "13" State - 4H - Pilot - Pilot												Offset Well Error:	0.00 usft
Survey Program: 18-NS-GYRO-MS													
Reference													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	7.00	0.00	0.00	89.64	5.29	848.48	848.53				
100.00	100.00	87.21	94.20	0.08	0.08	89.61	5.72	848.92	848.96	848.79	0.17	5,092.814	
200.00	200.00	185.99	192.98	0.31	0.30	89.60	5.91	849.68	849.73	849.12	0.61	1,387.700	
300.00	300.00	286.01	293.00	0.53	0.56	89.61	5.81	850.51	850.56	849.47	1.10	775.003	
400.00	400.00	386.19	393.18	0.76	0.83	89.61	5.82	851.33	851.38	849.79	1.59	536.408	
500.00	500.00	486.09	493.07	0.98	1.09	89.61	5.81	852.13	852.18	850.11	2.08	410.507	
600.00	600.00	586.55	593.53	1.21	1.35	89.62	5.62	852.94	852.98	850.42	2.56	333.295	
700.00	700.00	687.51	694.49	1.43	1.56	89.60	6.00	853.49	853.51	850.51	3.00	284.893	
800.00	800.00	789.18	806.16	1.66	1.66	89.56	6.54	853.06	853.11	849.79	3.32	257.272	
900.00	900.00	895.11	902.08	1.88	1.73	89.59	6.07	852.43	852.45	848.84	3.61	236.179	
918.31	918.31	911.34	918.31	1.92	1.75	89.60	5.93	852.41	852.43	848.76	3.67	232.214	
1,000.00	1,000.00	988.17	995.14	2.11	1.87	89.65	5.17	852.76	852.79	848.81	3.98	214.250	
1,100.00	1,100.00	1,089.88	1,096.84	2.33	2.09	89.70	4.46	853.25	853.26	848.84	4.43	192.802	
1,200.00	1,200.00	1,190.65	1,197.61	2.56	2.33	89.72	4.10	853.54	853.55	848.67	4.89	174.695	
1,300.00	1,300.00	1,290.38	1,297.34	2.78	2.58	89.74	3.88	853.84	853.85	848.49	5.36	159.357	
1,400.00	1,400.00	1,389.75	1,396.71	3.01	2.83	89.75	3.69	854.18	854.19	848.35	5.84	146.371	
1,500.00	1,500.00	1,489.27	1,496.23	3.23	3.08	89.78	3.34	854.60	854.61	848.30	6.31	135.407	
1,600.00	1,600.00	1,590.88	1,597.83	3.46	3.32	89.81	2.81	854.98	854.99	848.21	6.78	126.106	
1,700.00	1,700.00	1,692.97	1,699.93	3.68	3.54	89.85	2.24	855.11	855.12	847.89	7.22	118.364	
1,800.00	1,800.00	1,796.21	1,803.17	3.91	3.71	89.88	1.78	854.93	854.94	847.33	7.61	112.310	
1,900.00	1,900.00	1,896.95	1,903.90	4.13	3.79	89.89	1.67	854.51	854.52	846.61	7.92	107.917	
2,000.00	2,000.00	1,997.57	2,004.52	4.35	3.85	89.88	1.74	854.02	854.03	845.83	8.21	104.076	
2,100.00	2,100.00	2,098.43	2,105.38	4.58	3.93	89.88	1.84	853.44	853.46	844.95	8.51	100.294	
2,200.00	2,200.00	2,199.44	2,206.39	4.80	4.02	89.87	1.98	852.74	852.76	843.94	8.83	96.594	
2,300.00	2,300.00	2,299.65	2,306.59	5.03	4.13	89.85	2.22	851.95	851.98	842.82	9.16	93.034	
2,400.00	2,400.00	2,398.51	2,405.45	5.25	4.24	89.83	2.50	851.24	851.26	841.77	9.50	89.651	
2,500.00	2,500.00	2,497.80	2,504.74	5.48	4.37	89.81	2.83	850.67	850.69	840.84	9.85	86.406	
2,600.00	2,600.00	2,597.46	2,604.40	5.70	4.51	89.80	2.95	850.12	850.14	839.92	10.22	83.221	
2,700.00	2,700.00	2,698.17	2,705.11	5.93	4.68	89.80	2.94	849.59	849.61	839.01	10.60	80.128	
2,800.00	2,800.00	2,799.01	2,805.95	6.15	4.84	89.79	3.16	848.92	848.95	837.95	10.99	77.235	
2,900.00	2,900.00	2,801.79	2,808.72	6.38	5.01	89.76	3.55	848.06	848.12	836.73	11.39	74.472	
3,000.00	3,000.00	3,004.55	3,011.47	6.60	5.20	89.76	3.59	846.83	846.92	835.11	11.80	71.753	
3,100.00	3,100.00	3,101.59	3,108.50	6.83	5.40	89.78	3.27	845.67	845.72	833.49	12.22	69.193	
3,200.00	3,200.00	3,198.50	3,205.41	7.05	5.60	89.81	2.83	844.89	844.91	832.26	12.65	66.787	
3,300.00	3,300.00	3,298.32	3,305.23	7.28	5.79	89.80	2.96	844.23	844.25	831.18	13.07	64.612	
3,348.99	3,348.99	3,342.09	3,348.99	7.39	5.86	89.78	3.28	844.09	844.10	830.85	13.24	63.737	
3,400.00	3,400.00	3,387.93	3,394.83	7.50	5.93	89.75	3.70	844.24	844.26	830.83	13.43	62.876	
3,500.00	3,500.00	3,489.33	3,496.22	7.73	6.06	89.70	4.48	844.77	844.79	831.00	13.79	61.265	
3,600.00	3,600.00	3,590.91	3,597.81	7.95	6.21	89.67	4.89	845.11	845.13	830.97	14.16	59.690	
3,700.00	3,700.00	3,691.04	3,697.93	8.18	6.36	89.65	5.13	845.36	845.38	830.85	14.53	58.169	
3,800.00	3,800.00	3,791.51	3,798.40	8.40	6.52	89.64	5.32	845.60	845.61	830.70	14.92	56.692	
3,900.00	3,900.00	3,892.92	3,899.82	8.63	6.69	89.62	5.59	845.70	845.72	830.41	15.31	55.237	
4,000.00	4,000.00	3,994.06	4,000.96	8.85	6.87	89.60	5.88	845.64	845.66	829.95	15.72	53.806	
4,100.00	4,100.00	4,094.85	4,101.75	9.07	7.06	89.58	6.24	845.48	845.51	829.38	16.13	52.417	
4,200.00	4,200.00	4,195.59	4,202.49	9.30	7.25	89.55	6.61	845.22	845.25	828.70	16.55	51.072	
4,300.00	4,300.00	4,296.34	4,303.23	9.52	7.45	89.53	6.94	844.88	844.92	827.94	16.97	49.775	
4,400.00	4,400.00	4,398.55	4,405.44	9.75	7.66	89.51	7.15	844.38	844.42	827.02	17.40	48.518	
4,500.00	4,500.00	4,499.98	4,506.86	9.97	7.85	89.52	7.06	843.63	843.68	825.86	17.83	47.323	
4,600.00	4,600.00	4,601.63	4,608.52	10.20	8.06	89.53	6.85	842.70	842.77	824.52	18.25	46.170	
4,700.00	4,700.00	4,702.22	4,709.10	10.42	8.26	89.52	6.98	841.64	841.72	823.03	18.69	45.042	
4,800.00	4,800.00	4,801.00	4,807.88	10.65	8.48	89.50	7.35	840.64	840.71	821.59	19.12	43.963	

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 11H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	11H	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 Draft1	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	Vertical	Offset	Vertical	Semi Major Axis		Highside	Distance		Between	Between	Minimum	Separation	Warning		
Measured Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	Reference (usft)	Offset (usft)	Tooface (')	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor			
4,900.00	4,900.00	4,898.48	4,905.35	10.87	8.68	89.47	7.80	839.81	839.87	820.31	19.56	42.948			
4,968.60	4,968.60	4,961.74	4,968.60	11.03	8.81	89.44	8.17	839.61	839.65	819.81	19.84	42.329 CC			
5,000.00	5,000.00	4,991.57	4,998.44	11.10	8.86	89.43	8.36	839.64	839.69	819.73	19.96	42.066			
5,100.00	5,100.00	5,089.18	5,096.04	11.32	9.01	89.41	8.61	839.95	840.01	819.67	20.33	41.311			
5,200.00	5,200.00	5,186.29	5,193.15	11.55	9.14	89.42	8.56	840.58	840.66	819.97	20.69	40.636			
5,300.00	5,300.00	5,285.11	5,291.97	11.77	9.27	89.44	8.29	841.52	841.60	820.55	21.05	39.987			
5,400.00	5,400.00	5,388.30	5,395.16	12.00	9.43	89.42	8.48	842.34	842.40	820.97	21.43	39.309			
5,500.00	5,500.00	5,492.52	5,499.37	12.22	9.62	89.39	9.01	842.65	842.70	820.85	21.84	38.578			
5,600.00	5,600.00	5,595.36	5,602.21	12.45	9.83	89.35	9.54	842.54	842.59	820.32	22.28	37.825			
5,700.00	5,700.00	5,695.10	5,701.95	12.67	10.04	89.32	9.92	842.23	842.29	819.58	22.71	37.088			
5,800.00	5,800.00	5,793.57	5,800.42	12.90	10.25	89.30	10.30	842.09	842.15	819.01	23.14	36.391			
5,828.01	5,828.01	5,821.16	5,828.01	12.96	10.30	89.29	10.39	842.08	842.14	818.88	23.26	36.203			
5,900.00	5,900.00	5,891.71	5,898.55	13.12	10.43	89.28	10.55	842.14	842.21	818.65	23.55	35.759			
6,000.00	6,000.00	5,992.44	5,999.29	13.35	10.58	89.28	10.55	842.30	842.37	818.44	23.93	35.205			
6,100.00	6,100.00	6,091.37	6,098.22	13.57	10.71	89.31	10.19	842.43	842.50	818.21	24.28	34.694			
6,200.00	6,200.00	6,191.59	6,198.43	13.80	10.85	89.38	9.19	842.65	842.70	818.06	24.65	34.194			
6,216.00	6,216.00	6,207.29	6,214.13	13.83	10.87	89.39	8.98	842.69	842.74	818.03	24.70	34.114			
6,250.00	6,249.98	6,240.60	6,247.43	13.90	10.92	-90.20	8.54	842.78	842.83	818.01	24.82	33.963 ES			
6,300.00	6,299.64	6,289.35	6,296.19	13.98	10.99	-90.51	7.92	842.96	843.04	818.08	24.97	33.769			
6,350.00	6,348.53	6,337.63	6,344.46	14.07	11.06	-91.11	7.35	843.19	843.42	818.31	25.11	33.584			
6,400.00	6,396.20	6,384.50	6,391.33	14.16	11.13	-91.96	6.82	843.45	844.12	818.88	25.26	33.415			
6,450.00	6,442.21	6,428.03	6,434.85	14.25	11.19	-92.93	6.35	843.79	845.42	820.01	25.41	33.272			
6,500.00	6,486.14	6,469.63	6,476.45	14.33	11.25	-94.00	5.91	844.25	847.65	822.09	25.56	33.163			
6,550.00	6,527.58	6,508.77	6,515.58	14.44	11.31	-95.07	5.52	844.80	851.09	825.37	25.72	33.094			
6,600.00	6,566.15	6,545.15	6,551.95	14.57	11.37	-96.05	5.21	845.41	856.09	830.20	25.88	33.073 SF			
6,650.00	6,601.50	6,579.51	6,586.31	14.74	11.42	-96.90	4.97	846.06	862.93	836.86	26.07	33.101			
6,700.00	6,633.30	6,612.14	6,618.93	14.94	11.47	-97.57	4.73	846.68	871.84	845.56	26.28	33.173			
6,750.00	6,661.25	6,640.94	6,647.72	15.18	11.52	-97.89	4.51	847.23	883.05	856.52	26.53	33.281			
6,800.00	6,685.11	6,665.65	6,672.43	15.46	11.56	-97.77	4.30	847.68	896.75	869.91	26.84	33.413			
6,850.00	6,704.65	6,688.11	6,692.89	15.78	11.59	-97.13	4.12	848.04	913.04	885.83	27.21	33.558			
6,900.00	6,719.68	6,702.01	6,708.79	16.15	11.62	-95.90	3.97	848.32	931.92	904.27	27.64	33.713			
6,950.00	6,730.08	6,713.19	6,719.96	16.56	11.63	-94.04	3.86	848.51	953.30	925.17	28.13	33.890			
7,000.00	6,735.75	6,719.53	6,726.30	17.00	11.64	-91.51	3.80	848.62	976.98	948.34	28.64	34.117			
7,030.62	6,736.86	6,720.99	6,727.76	17.29	11.65	-89.62	3.78	848.64	992.50	963.57	28.94	34.301			
7,100.00	6,737.33	6,722.20	6,728.96	17.99	11.65	-89.70	3.77	848.66	1,030.19	1,000.55	29.64	34.760			
7,200.00	6,738.02	6,723.94	6,730.71	19.10	11.65	-89.82	3.76	848.69	1,089.99	1,059.24	30.75	35.443			
7,300.00	6,738.70	6,725.70	6,732.46	20.32	11.65	-89.94	3.74	848.72	1,155.36	1,123.39	31.97	36.135			
7,400.00	6,739.38	6,727.46	6,734.23	21.62	11.66	-90.06	3.72	848.75	1,225.41	1,192.13	33.28	36.820			
7,500.00	6,740.07	6,729.23	6,736.00	23.00	11.66	-90.18	3.70	848.78	1,299.39	1,264.73	34.66	37.489			
7,600.00	6,740.75	6,731.01	6,737.78	24.44	11.66	-90.30	3.68	848.81	1,376.66	1,340.56	36.10	38.134			
7,700.00	6,741.43	6,732.80	6,739.57	25.92	11.67	-90.42	3.67	848.84	1,456.69	1,419.10	37.59	38.753			
7,800.00	6,742.12	6,734.60	6,741.36	27.45	11.67	-90.54	3.65	848.87	1,539.06	1,499.94	39.12	39.341			
7,900.00	6,742.80	6,736.40	6,743.17	29.02	11.67	-90.66	3.63	848.90	1,623.41	1,582.72	40.69	39.900			
8,000.00	6,743.49	6,738.22	6,744.98	30.61	11.67	-90.79	3.61	848.93	1,709.44	1,667.16	42.28	40.429			
8,100.00	6,744.17	6,740.04	6,746.80	32.23	11.68	-90.91	3.59	848.96	1,796.92	1,753.02	43.90	40.929			
8,200.00	6,744.85	6,741.87	6,748.63	33.87	11.68	-91.03	3.57	848.99	1,885.65	1,840.10	45.55	41.401			
8,300.00	6,745.54	6,743.71	6,750.47	35.53	11.68	-91.16	3.55	849.02	1,975.44	1,928.24	47.21	41.846			
8,400.00	6,746.22	6,745.56	6,752.32	37.21	11.69	-91.28	3.53	849.05	2,066.18	2,017.30	48.88	42.267			
8,500.00	6,746.90	6,747.41	6,754.18	38.90	11.69	-91.41	3.52	849.08	2,157.73	2,107.16	50.58	42.664			
8,600.00	6,747.59	6,749.28	6,756.04	40.60	11.69	-91.53	3.50	849.11	2,250.00	2,197.73	52.28	43.039			

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

Leam Drilling Systems LLC

Anticollision Report

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Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	11H	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 Draft1	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		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)				
8,700.00	6,748.27	6,751.15	6,757.92	42.32	11.70	-91.66	3.48	849.14	2,342.91	2,288.92	53.99	43.394		
8,800.00	6,748.95	6,753.04	6,759.80	44.04	11.70	-91.78	3.46	849.17	2,436.37	2,380.66	55.71	43.730		
8,900.00	6,749.64	6,753.40	6,760.16	45.77	11.70	-91.81	3.45	849.18	2,530.33	2,472.89	57.45	44.048		
9,000.00	6,750.32	6,753.40	6,760.16	47.51	11.70	-91.81	3.45	849.18	2,624.74	2,565.56	59.18	44.349		
9,100.00	6,751.01	6,753.40	6,760.16	49.26	11.70	-91.81	3.45	849.18	2,719.55	2,658.62	60.93	44.634		
9,200.00	6,751.69	6,753.40	6,760.16	51.01	11.70	-91.81	3.45	849.18	2,814.72	2,752.04	62.68	44.905		
9,300.00	6,752.37	6,753.40	6,760.16	52.77	11.70	-91.81	3.45	849.18	2,910.21	2,845.77	64.44	45.162		
9,400.00	6,753.06	6,753.40	6,760.16	54.53	11.70	-91.81	3.45	849.18	3,006.00	2,939.80	66.20	45.407		
9,500.00	6,753.74	6,753.40	6,760.16	56.30	11.70	-91.81	3.45	849.18	3,102.05	3,034.08	67.97	45.640		
9,600.00	6,754.42	6,764.19	6,770.95	58.07	11.72	-92.54	3.34	849.36	3,198.32	3,128.59	69.73	45.869		
9,700.00	6,755.11	6,765.49	6,772.25	59.85	11.72	-92.62	3.33	849.38	3,294.83	3,223.33	71.50	46.082		
9,800.00	6,755.79	6,766.77	6,773.53	61.62	11.72	-92.71	3.32	849.40	3,391.54	3,318.27	73.27	46.286		
9,830.58	6,756.00	6,767.16	6,773.92	62.17	11.72	-92.73	3.31	849.40	3,421.16	3,347.34	73.82	46.347		
9,855.93	6,756.05	6,767.46	6,774.22	62.80	11.72	-90.28	3.31	849.41	3,455.38	3,380.86	74.52	46.370		
9,900.00	6,755.91	6,767.60	6,774.36	63.40	11.72	-90.29	3.31	849.41	3,488.37	3,413.25	75.12	46.435		
10,000.00	6,755.49	6,768.02	6,774.78	65.19	11.72	-90.32	3.31	849.42	3,585.31	3,508.40	76.91	46.617		
10,100.00	6,755.07	6,768.43	6,775.19	66.98	11.72	-90.35	3.30	849.42	3,682.41	3,603.71	78.70	46.791		
10,200.00	6,754.66	6,768.84	6,775.60	68.77	11.72	-90.37	3.30	849.43	3,779.67	3,699.18	80.49	46.958		
10,300.00	6,754.24	6,769.24	6,776.00	70.56	11.73	-90.40	3.29	849.44	3,877.06	3,794.78	82.29	47.117		
10,400.00	6,753.83	6,769.63	6,776.39	72.36	11.73	-90.42	3.29	849.44	3,974.59	3,890.51	84.08	47.271		
10,500.00	6,753.41	6,770.02	6,776.78	74.16	11.73	-90.45	3.29	849.45	4,072.23	3,986.35	85.88	47.418		
10,600.00	6,753.00	6,770.41	6,777.16	75.96	11.73	-90.48	3.28	849.46	4,169.99	4,082.31	87.68	47.560		
10,700.00	6,752.58	6,770.79	6,777.54	77.76	11.73	-90.50	3.28	849.46	4,267.85	4,178.37	89.48	47.696		
10,800.00	6,752.16	6,771.16	6,777.92	79.56	11.73	-90.53	3.28	849.47	4,365.80	4,274.52	91.28	47.827		
10,900.00	6,751.75	6,771.53	6,778.29	81.36	11.73	-90.55	3.27	849.47	4,463.85	4,370.76	93.09	47.953		
11,000.00	6,751.33	6,771.90	6,778.65	83.17	11.73	-90.57	3.27	849.48	4,561.98	4,467.09	94.89	48.075		
11,100.00	6,750.92	6,772.26	6,779.02	84.98	11.73	-90.60	3.27	849.49	4,660.19	4,563.49	96.70	48.192		
11,200.00	6,750.50	6,772.61	6,779.37	86.78	11.73	-90.62	3.26	849.49	4,758.48	4,659.97	98.51	48.305		
11,300.00	6,750.09	6,772.97	6,779.72	88.59	11.73	-90.64	3.26	849.50	4,856.84	4,756.52	100.32	48.415		
11,320.60	6,750.00	6,773.04	6,779.80	88.97	11.73	-90.65	3.26	849.50	4,877.11	4,776.42	100.69	48.437		

Leam Drilling Systems LLC

Anticollision Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 11H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	11H	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 Draft1	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 Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
0.00	0.00	0.00	22.00	0.00	0.00	89.64	14.14	2,248.07	2,248.22						
100.00	100.00	83.12	105.12	0.08	0.07	89.64	14.22	2,247.97	2,248.03	2,247.88	0.15	N/A			
200.00	200.00	189.67	211.67	0.31	0.15	89.63	14.54	2,247.57	2,247.65	2,247.19	0.46	4,906.200			
300.00	300.00	295.37	317.37	0.53	0.29	89.62	14.91	2,246.88	2,247.00	2,246.17	0.83	2,719.556			
400.00	400.00	391.15	413.14	0.76	0.46	89.63	14.70	2,246.18	2,246.26	2,245.04	1.22	1,843.415			
500.00	500.00	486.20	508.19	0.98	0.63	89.64	14.27	2,245.74	2,245.80	2,244.19	1.61	1,395.362			
600.00	600.00	587.39	609.38	1.21	0.80	89.65	13.77	2,245.38	2,245.44	2,243.43	2.01	1,116.478			
700.00	700.00	688.46	710.44	1.43	0.98	89.67	13.11	2,244.93	2,244.99	2,242.58	2.41	930.463			
800.00	800.00	787.07	809.05	1.66	1.15	89.69	12.28	2,244.50	2,244.55	2,241.74	2.81	798.753			
900.00	900.00	881.40	903.38	1.88	1.32	89.70	11.74	2,244.26	2,244.29	2,241.09	3.20	701.405			
1,000.00	1,000.00	983.87	1,005.85	2.11	1.50	89.71	11.19	2,244.04	2,244.07	2,240.47	3.60	622.737			
1,100.00	1,100.00	1,088.83	1,110.81	2.33	1.68	89.72	10.86	2,243.73	2,243.78	2,239.77	4.01	559.271			
1,200.00	1,200.00	1,192.96	1,214.94	2.56	1.86	89.72	10.98	2,242.97	2,243.04	2,238.62	4.42	507.579			
1,300.00	1,300.00	1,285.11	1,307.08	2.78	2.02	89.71	11.31	2,242.55	2,242.59	2,237.79	4.81	466.706			
1,400.00	1,400.00	1,382.77	1,404.74	3.01	2.20	89.70	11.57	2,242.31	2,242.35	2,237.15	5.20	431.160			
1,500.00	1,500.00	1,490.58	1,512.55	3.23	2.38	89.70	11.91	2,241.97	2,242.04	2,236.43	5.61	399.357			
1,600.00	1,600.00	1,598.15	1,620.11	3.46	2.57	89.68	12.37	2,241.15	2,241.28	2,235.25	6.03	371.853			
1,700.00	1,700.00	1,685.59	1,707.56	3.68	2.72	89.68	12.45	2,240.58	2,240.63	2,234.22	6.41	349.812			
1,793.22	1,793.22	1,771.26	1,793.22	3.89	2.87	89.69	12.18	2,240.46	2,240.49	2,233.72	6.76	331.220 CC			
1,800.00	1,800.00	1,777.57	1,799.54	3.91	2.89	89.69	12.15	2,240.46	2,240.49	2,233.70	6.79	329.938			
1,900.00	1,900.00	1,874.50	1,896.46	4.13	3.05	89.70	11.65	2,240.56	2,240.59	2,233.41	7.18	311.879			
2,000.00	2,000.00	1,966.81	1,988.77	4.35	3.22	89.72	10.98	2,240.86	2,240.91	2,233.34	7.57	296.041			
2,100.00	2,100.00	2,073.69	2,095.64	4.58	3.40	89.75	9.90	2,241.25	2,241.28	2,233.30	7.98	280.837			
2,200.00	2,200.00	2,176.29	2,198.24	4.80	3.58	89.77	8.93	2,241.39	2,241.41	2,233.03	8.38	267.326			
2,300.00	2,300.00	2,277.96	2,299.91	5.03	3.76	89.78	8.59	2,241.42	2,241.44	2,232.65	8.79	255.095			
2,400.00	2,400.00	2,377.60	2,399.54	5.25	3.93	89.79	8.36	2,241.44	2,241.46	2,232.27	9.19	244.031			
2,500.00	2,500.00	2,475.26	2,497.20	5.48	4.10	89.79	8.08	2,241.48	2,241.50	2,231.92	9.58	233.973			
2,600.00	2,600.00	2,573.17	2,595.12	5.70	4.28	89.81	7.41	2,241.69	2,241.71	2,231.73	9.98	224.717			
2,700.00	2,700.00	2,673.56	2,695.50	5.93	4.45	89.82	6.87	2,241.89	2,241.91	2,231.53	10.38	216.077			
2,800.00	2,800.00	2,777.40	2,799.34	6.15	4.63	89.84	6.20	2,242.05	2,242.05	2,231.27	10.78	207.954			
2,900.00	2,900.00	2,882.55	2,904.49	6.38	4.82	89.85	5.75	2,241.95	2,241.96	2,230.77	11.19	200.354			
3,000.00	3,000.00	2,978.62	3,000.56	6.60	4.98	89.85	5.69	2,241.83	2,241.84	2,230.25	11.58	193.549			
3,100.00	3,100.00	3,080.34	3,102.28	6.83	5.16	89.85	5.71	2,241.78	2,241.79	2,229.80	11.99	187.042			
3,200.00	3,200.00	3,183.91	3,205.85	7.05	5.34	89.84	6.25	2,241.48	2,241.49	2,229.10	12.39	180.892			
3,230.26	3,230.26	3,208.33	3,230.26	7.12	5.39	89.84	6.45	2,241.44	2,241.45	2,228.95	12.50	179.287			
3,300.00	3,300.00	3,265.60	3,287.54	7.28	5.48	89.82	6.96	2,241.61	2,241.66	2,228.90	12.76	175.696 ES			
3,400.00	3,400.00	3,359.20	3,381.13	7.50	5.65	89.81	7.47	2,242.31	2,242.40	2,229.25	13.15	170.570			
3,500.00	3,500.00	3,467.62	3,489.55	7.73	5.84	89.81	7.46	2,242.95	2,242.99	2,229.43	13.56	165.416			
3,600.00	3,600.00	3,566.19	3,588.11	7.95	6.01	89.82	7.09	2,243.45	2,243.49	2,229.53	13.96	160.754			
3,700.00	3,700.00	3,666.27	3,688.19	8.18	6.18	89.83	6.47	2,244.00	2,244.04	2,229.68	14.36	156.321			
3,800.00	3,800.00	3,763.53	3,785.45	8.40	6.35	89.85	5.95	2,244.52	2,244.57	2,229.82	14.75	152.179			
3,900.00	3,900.00	3,857.50	3,879.41	8.63	6.52	89.85	5.73	2,245.26	2,245.37	2,230.23	15.14	148.327			
4,000.00	4,000.00	3,963.55	3,985.47	8.85	6.70	89.86	5.65	2,246.20	2,246.25	2,230.71	15.55	144.478			
4,100.00	4,100.00	4,066.82	4,088.73	9.07	6.88	89.87	5.24	2,246.74	2,246.77	2,230.82	15.95	140.844			
4,200.00	4,200.00	4,173.70	4,195.61	9.30	7.07	89.88	4.79	2,247.13	2,247.14	2,230.78	16.36	137.327			
4,300.00	4,300.00	4,272.39	4,294.29	9.52	7.24	89.89	4.36	2,247.36	2,247.37	2,230.61	16.76	134.088			
4,400.00	4,400.00	4,375.56	4,397.46	9.75	7.42	89.90	3.92	2,247.54	2,247.54	2,230.38	17.17	130.935			
4,500.00	4,500.00	4,463.42	4,485.32	9.97	7.51	89.92	3.01	2,247.85	2,247.90	2,230.42	17.48	128.612			
4,600.00	4,600.00	4,541.00	4,562.87	10.20	7.58	89.97	1.09	2,248.57	2,248.68	2,231.10	17.77	126.541			
4,700.00	4,700.00	4,606.58	4,628.14	10.42	7.59	90.12	-4.74	2,250.12	2,251.27	2,233.26	18.00	125.040			
4,800.00	4,800.00	4,672.04	4,692.08	10.65	7.62	90.47	-18.33	2,252.45	2,255.11	2,236.86	18.25	123.572			

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

Leam Drilling Systems LLC

Anticollision Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 11H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	11H	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 Draft1	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)	Minimum Separation (usft)	Separation Factor		
4,900.00	4,900.00	4,717.60	4,735.23	10.87	7.65	90.83	-32.68	2,254.85	2,261.10	2,242.59	18.51	122.179		
5,000.00	5,000.00	4,778.00	4,789.73	11.10	7.71	91.48	-58.26	2,259.03	2,269.54	2,250.73	18.81	120.657		
5,100.00	5,100.00	4,839.77	4,841.39	11.32	7.88	92.32	-91.77	2,263.34	2,279.92	2,260.72	19.20	118.771		
5,200.00	5,200.00	4,894.50	4,883.07	11.55	8.11	93.21	-127.19	2,266.81	2,292.39	2,272.75	19.64	116.693		
5,300.00	5,300.00	5,027.92	4,968.33	11.77	9.04	95.74	-228.34	2,270.54	2,305.83	2,285.06	20.76	111.052		
5,400.00	5,400.00	5,062.00	4,985.61	12.00	9.37	96.49	-258.25	2,270.09	2,322.00	2,300.69	21.31	108.958		
5,500.00	5,500.00	5,075.33	4,991.00	12.22	9.53	96.79	-270.44	2,269.80	2,341.84	2,320.16	21.69	107.985		
5,600.00	5,600.00	5,092.09	4,997.01	12.45	9.73	97.18	-286.08	2,269.35	2,365.46	2,343.36	22.10	107.032		
5,700.00	5,700.00	5,110.00	5,002.46	12.67	9.94	97.61	-303.12	2,268.74	2,392.83	2,370.30	22.53	106.223		
5,800.00	5,800.00	5,110.00	5,002.46	12.90	9.94	97.61	-303.12	2,268.74	2,423.87	2,401.12	22.75	106.538		
5,900.00	5,900.00	5,110.00	5,002.46	13.12	9.94	97.61	-303.12	2,268.74	2,458.59	2,435.51	22.98	107.007		
6,000.00	6,000.00	5,126.75	5,006.56	13.35	10.15	98.01	-319.35	2,268.05	2,496.59	2,473.18	23.41	106.639		
6,100.00	6,100.00	5,141.00	5,009.18	13.57	10.34	98.36	-333.33	2,267.38	2,538.11	2,514.29	23.81	106.577		
6,200.00	6,200.00	5,141.00	5,009.18	13.80	10.34	98.36	-333.33	2,267.38	2,582.66	2,558.62	24.04	107.434		
6,216.00	6,216.00	5,141.00	5,009.18	13.83	10.34	98.36	-333.33	2,267.38	2,590.08	2,566.00	24.08	107.581		
6,250.00	6,249.98	5,141.00	5,009.18	13.90	10.34	-79.25	-333.33	2,267.38	2,605.94	2,581.82	24.12	108.057		
6,300.00	6,299.64	5,141.00	5,009.18	13.98	10.34	-76.43	-333.33	2,267.38	2,629.20	2,605.06	24.14	108.934		
6,350.00	6,348.53	5,141.00	5,009.18	14.07	10.34	-73.67	-333.33	2,267.38	2,652.21	2,628.08	24.13	109.911		
6,400.00	6,396.20	5,141.00	5,009.18	14.16	10.34	-71.02	-333.33	2,267.38	2,674.77	2,650.67	24.09	111.010		
6,450.00	6,442.21	5,141.00	5,009.18	14.25	10.34	-68.51	-333.33	2,267.38	2,696.68	2,672.65	24.02	112.246		
6,500.00	6,486.14	5,141.00	5,009.18	14.33	10.34	-66.15	-333.33	2,267.38	2,717.76	2,693.84	23.92	113.623		
6,550.00	6,527.58	5,141.00	5,009.18	14.44	10.34	-63.96	-333.33	2,267.38	2,737.84	2,714.06	23.78	115.128		
6,600.00	6,566.15	5,164.38	5,011.96	14.57	10.67	-61.65	-356.52	2,266.30	2,756.06	2,732.18	23.88	115.433		
6,650.00	6,601.50	5,188.00	5,012.96	14.74	11.00	-59.58	-380.09	2,265.42	2,773.72	2,749.77	23.94	115.847		
6,700.00	6,633.30	5,188.00	5,012.96	14.94	11.00	-58.05	-380.09	2,265.42	2,789.18	2,765.42	23.76	117.398		
6,750.00	6,661.25	5,188.00	5,012.96	15.18	11.00	-56.72	-380.09	2,265.42	2,803.04	2,779.44	23.60	118.787		
6,800.00	6,685.11	5,188.00	5,012.96	15.46	11.00	-55.57	-380.09	2,265.42	2,815.18	2,791.70	23.48	119.901		
6,850.00	6,704.65	5,205.59	5,012.96	15.78	11.27	-54.51	-397.67	2,264.88	2,825.40	2,801.78	23.62	119.642		
6,900.00	6,719.68	5,240.00	5,012.52	16.15	11.79	-53.60	-432.07	2,264.03	2,833.49	2,809.47	24.02	117.979		
6,950.00	6,730.08	5,240.00	5,012.52	16.56	11.79	-53.10	-432.07	2,264.03	2,839.13	2,814.98	24.15	117.576		
7,000.00	6,735.75	5,282.49	5,011.44	17.00	12.48	-52.71	-474.54	2,263.23	2,842.29	2,817.39	24.90	114.153		
7,030.62	6,736.86	5,302.46	5,010.80	17.29	12.80	-52.62	-494.50	2,262.89	2,842.97	2,817.62	25.35	112.143		
7,100.00	6,737.33	5,349.15	5,008.96	17.99	13.57	-52.57	-541.14	2,262.20	2,843.68	2,817.16	26.52	107.227		
7,200.00	6,738.02	5,422.00	5,005.40	19.10	14.83	-52.49	-613.90	2,261.43	2,845.60	2,817.20	28.40	100.194		
7,300.00	6,738.70	5,501.14	5,002.20	20.32	16.16	-52.43	-692.97	2,261.94	2,848.38	2,817.93	30.44	93.563		
7,400.00	6,739.38	5,573.82	5,001.02	21.62	17.37	-52.43	-765.59	2,264.46	2,851.93	2,819.44	32.49	87.779		
7,500.00	6,740.07	5,646.04	5,000.81	23.00	18.64	-52.46	-837.69	2,268.61	2,856.47	2,821.82	34.66	82.425		
7,600.00	6,740.75	5,728.58	4,999.95	24.44	20.15	-52.49	-920.04	2,273.84	2,861.91	2,824.84	37.07	77.210		
7,700.00	6,741.43	5,817.28	5,000.34	25.92	21.79	-52.56	-1,008.50	2,280.71	2,867.61	2,827.96	39.65	72.324		
7,800.00	6,742.12	5,876.00	5,000.50	27.45	22.89	-52.62	-1,067.00	2,285.69	2,874.14	2,832.31	41.83	68.715		
7,900.00	6,742.80	5,967.00	5,000.58	29.02	24.66	-52.71	-1,157.55	2,294.71	2,881.78	2,837.19	44.59	64.624		
8,000.00	6,743.49	6,006.38	5,007.20	30.61	29.10	-53.02	-1,395.85	2,315.87	2,886.75	2,837.05	49.70	58.087		
8,100.00	6,744.17	6,355.68	5,009.20	32.23	31.97	-53.09	-1,544.99	2,321.92	2,889.06	2,835.61	53.44	54.058		
8,200.00	6,744.85	6,433.00	5,008.44	33.87	33.47	-53.08	-1,622.30	2,323.01	2,890.59	2,834.55	56.04	51.580		
8,300.00	6,745.54	6,527.00	5,005.99	35.53	35.33	-53.03	-1,716.26	2,323.83	2,892.65	2,833.73	58.93	49.089		
8,400.00	6,746.22	6,604.10	5,004.55	37.21	36.83	-53.01	-1,793.32	2,325.53	2,895.32	2,833.78	61.55	47.043		
8,500.00	6,746.90	6,672.69	5,004.58	38.90	38.16	-53.04	-1,861.84	2,328.73	2,898.84	2,834.77	64.07	45.244		
8,600.00	6,747.59	6,791.44	5,005.26	40.60	40.46	-53.11	-1,980.37	2,335.94	2,903.24	2,835.80	67.44	43.051		
8,700.00	6,748.27	6,889.58	5,007.84	42.32	42.37	-53.21	-2,078.27	2,342.15	2,906.54	2,836.02	70.52	41.218		
8,800.00	6,748.95	7,027.85	5,011.23	44.04	45.09	-53.32	-2,216.28	2,349.83	2,909.28	2,834.99	74.29	39.160		

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 11H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	11H	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 Draft1	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	Vertical	Offset	Vertical	Semi Major Axis		Highside	Distance		Between	Between	Minimum	Separation	Warning	
Measured Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor		
8,900.00	6,749.64	7,122.53	5,013.28	45.77	46.97	-53.39	-2,310.84	2,354.45	2,911.68	2,834.35	77.34	37.646		
9,000.00	6,750.32	7,242.55	5,015.04	47.51	49.34	-53.45	-2,430.75	2,359.09	2,913.71	2,832.89	80.82	36.052		
9,100.00	6,751.01	7,361.90	5,015.42	49.26	51.71	-53.46	-2,550.07	2,361.74	2,915.10	2,830.85	84.25	34.599		
9,200.00	6,751.69	7,463.66	5,014.53	51.01	53.73	-53.44	-2,651.82	2,362.58	2,916.07	2,828.68	87.38	33.371		
9,300.00	6,752.37	7,544.45	5,013.18	52.77	55.34	-53.41	-2,732.59	2,363.07	2,917.35	2,827.18	90.17	32.355		
9,400.00	6,753.06	7,616.94	5,011.81	54.53	56.78	-53.38	-2,805.06	2,364.11	2,919.43	2,826.62	92.81	31.456		
9,500.00	6,753.74	7,689.58	5,010.92	56.30	58.20	-53.38	-2,877.66	2,366.44	2,922.51	2,827.04	95.47	30.611		
9,600.00	6,754.42	7,770.50	5,010.76	58.07	59.78	-53.41	-2,958.48	2,370.45	2,926.39	2,828.09	98.30	29.770		
9,700.00	6,755.11	7,869.73	5,010.23	59.85	61.75	-53.44	-3,057.58	2,375.47	2,930.56	2,829.10	101.45	28.886		
9,800.00	6,755.79	7,969.01	5,010.47	61.62	63.72	-53.49	-3,156.69	2,381.15	2,934.80	2,830.17	104.63	28.049		
9,830.58	6,756.00	8,003.45	5,010.67	62.17	64.40	-53.51	-3,191.08	2,383.16	2,936.07	2,830.40	105.68	27.784		
9,865.93	6,756.05	8,042.00	5,010.81	62.80	65.17	-53.52	-3,229.57	2,385.29	2,937.29	2,830.43	106.86	27.486		
9,900.00	6,755.91	8,070.73	5,010.82	63.40	65.75	-53.54	-3,258.26	2,386.82	2,938.29	2,830.42	107.87	27.239		
10,000.00	6,755.49	8,171.44	5,010.15	65.19	67.77	-53.58	-3,358.82	2,392.10	2,941.60	2,830.50	111.09	26.479		
10,100.00	6,755.07	8,298.48	5,009.72	66.98	70.27	-53.62	-3,485.75	2,397.52	2,943.85	2,829.12	114.73	25.658		
10,200.00	6,754.66	8,422.80	5,010.12	68.77	72.72	-53.68	-3,609.96	2,402.59	2,945.65	2,827.31	118.34	24.891		
10,300.00	6,754.24	8,542.67	5,010.96	70.56	75.07	-53.72	-3,729.76	2,406.58	2,946.60	2,824.73	121.87	24.178		
10,400.00	6,753.83	8,664.81	5,012.24	72.36	77.46	-53.77	-3,851.85	2,409.88	2,946.85	2,821.41	125.44	23.493		
10,500.00	6,753.41	8,766.21	5,012.97	74.16	79.47	-53.80	-3,953.23	2,411.71	2,946.56	2,817.91	128.65	22.903		
10,600.00	6,753.00	8,863.60	5,013.33	75.96	81.41	-53.81	-4,050.61	2,413.44	2,946.45	2,814.64	131.81	22.354		
10,700.00	6,752.58	8,972.30	5,013.74	77.76	83.56	-53.83	-4,159.29	2,415.22	2,946.24	2,811.09	135.15	21.800		
10,765.77	6,752.31	9,028.39	5,014.58	78.94	84.62	-53.85	-4,213.35	2,416.53	2,946.06	2,809.00	137.06	21.494		
10,800.00	6,752.16	9,052.02	5,014.97	79.56	85.12	-53.87	-4,238.97	2,417.28	2,946.11	2,808.10	138.02	21.346		
10,900.00	6,751.75	9,136.33	5,016.19	81.36	86.79	-53.91	-4,323.22	2,420.21	2,946.74	2,805.74	140.99	20.900		
11,000.00	6,751.33	9,233.84	5,017.43	83.17	88.73	-53.96	-4,420.65	2,423.82	2,947.66	2,803.44	144.22	20.439		
11,100.00	6,750.92	9,339.21	5,018.42	84.98	90.85	-54.01	-4,525.96	2,427.34	2,948.49	2,800.91	147.58	19.979		
11,200.00	6,750.50	9,425.58	5,019.06	86.78	92.58	-54.04	-4,612.28	2,430.14	2,949.37	2,798.77	150.60	19.584		
11,300.00	6,750.09	9,509.65	5,020.00	88.59	94.26	-54.09	-4,696.27	2,433.75	2,950.86	2,797.26	153.61	19.211		
11,320.60	6,750.00	9,529.00	5,020.15	88.97	94.65	-54.10	-4,715.60	2,434.60	2,951.23	2,796.97	154.26	19.132 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 11H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	11H	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 Draft1	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	
0.00	0.00	15.00	0.00	0.00	0.01	-91.14	-35.59	-1,792.47	1,792.82				
100.00	100.00	115.00	100.00	0.08	0.12	-91.14	-35.59	-1,792.47	1,792.82	1,792.62	0.20	8,912.166	
200.00	200.00	215.00	200.00	0.31	0.34	-91.14	-35.59	-1,792.47	1,792.82	1,792.17	0.65	2,755.231	
300.00	300.00	315.00	300.00	0.53	0.57	-91.14	-35.59	-1,792.47	1,792.82	1,791.72	1.10	1,629.499	
400.00	400.00	415.00	400.00	0.76	0.79	-91.14	-35.59	-1,792.47	1,792.82	1,791.27	1.55	1,156.838	
500.00	500.00	515.00	500.00	0.98	1.02	-91.14	-35.59	-1,792.47	1,792.82	1,790.82	2.00	896.728	
600.00	600.00	615.00	600.00	1.21	1.24	-91.14	-35.59	-1,792.47	1,792.82	1,790.37	2.45	732.115	
700.00	700.00	715.00	700.00	1.43	1.47	-91.14	-35.59	-1,792.47	1,792.82	1,789.92	2.90	618.565	
800.00	800.00	815.00	800.00	1.66	1.69	-91.14	-35.59	-1,792.47	1,792.82	1,789.48	3.35	535.508	
900.00	900.00	915.00	900.00	1.88	1.92	-91.14	-35.59	-1,792.47	1,792.82	1,789.03	3.80	472.116	
1,000.00	1,000.00	1,015.00	1,000.00	2.11	2.14	-91.14	-35.59	-1,792.47	1,792.82	1,788.58	4.25	422.143	
1,100.00	1,100.00	1,115.00	1,100.00	2.33	2.36	-91.14	-35.59	-1,792.47	1,792.82	1,788.13	4.70	381.737	
1,200.00	1,200.00	1,215.00	1,200.00	2.56	2.59	-91.14	-35.59	-1,792.47	1,792.82	1,787.68	5.15	348.390	
1,300.00	1,300.00	1,315.00	1,300.00	2.78	2.81	-91.14	-35.59	-1,792.47	1,792.82	1,787.23	5.60	320.402	
1,400.00	1,400.00	1,415.00	1,400.00	3.01	3.04	-91.14	-35.59	-1,792.47	1,792.82	1,786.78	6.05	296.575	
1,500.00	1,500.00	1,515.00	1,500.00	3.23	3.26	-91.14	-35.59	-1,792.47	1,792.82	1,786.33	6.49	276.048	
1,600.00	1,600.00	1,615.00	1,600.00	3.46	3.49	-91.14	-35.59	-1,792.47	1,792.82	1,785.88	6.94	258.178	
1,700.00	1,700.00	1,715.00	1,700.00	3.68	3.71	-91.14	-35.59	-1,792.47	1,792.82	1,785.43	7.39	242.481	
1,800.00	1,800.00	1,815.00	1,800.00	3.91	3.94	-91.14	-35.59	-1,792.47	1,792.82	1,784.98	7.84	228.583	
1,900.00	1,900.00	1,915.00	1,900.00	4.13	4.16	-91.14	-35.59	-1,792.47	1,792.82	1,784.53	8.29	216.192	
2,000.00	2,000.00	2,015.00	2,000.00	4.35	4.39	-91.14	-35.59	-1,792.47	1,792.82	1,784.08	8.74	205.075	
2,100.00	2,100.00	2,115.00	2,100.00	4.58	4.61	-91.14	-35.59	-1,792.47	1,792.82	1,783.63	9.19	195.046	
2,200.00	2,200.00	2,215.00	2,200.00	4.80	4.84	-91.14	-35.59	-1,792.47	1,792.82	1,783.18	9.64	185.952	
2,300.00	2,300.00	2,315.00	2,300.00	5.03	5.06	-91.14	-35.59	-1,792.47	1,792.82	1,782.73	10.09	177.668	
2,400.00	2,400.00	2,415.00	2,400.00	5.25	5.29	-91.14	-35.59	-1,792.47	1,792.82	1,782.28	10.54	170.091	
2,500.00	2,500.00	2,515.00	2,500.00	5.48	5.51	-91.14	-35.59	-1,792.47	1,792.82	1,781.83	10.99	163.133	
2,600.00	2,600.00	2,615.00	2,600.00	5.70	5.74	-91.14	-35.59	-1,792.47	1,792.82	1,781.38	11.44	156.723	
2,700.00	2,700.00	2,715.00	2,700.00	5.93	5.96	-91.14	-35.59	-1,792.47	1,792.82	1,780.93	11.89	150.797	
2,800.00	2,800.00	2,815.00	2,800.00	6.15	6.19	-91.14	-35.59	-1,792.47	1,792.82	1,780.48	12.34	145.303	
2,900.00	2,900.00	2,915.00	2,900.00	6.38	6.41	-91.14	-35.59	-1,792.47	1,792.82	1,780.04	12.79	140.195	
3,000.00	3,000.00	3,015.00	3,000.00	6.60	6.64	-91.14	-35.59	-1,792.47	1,792.82	1,779.59	13.24	135.434	
3,100.00	3,100.00	3,115.00	3,100.00	6.83	6.86	-91.14	-35.59	-1,792.47	1,792.82	1,779.14	13.69	130.986	
3,200.00	3,200.00	3,215.00	3,200.00	7.05	7.08	-91.14	-35.59	-1,792.47	1,792.82	1,778.69	14.14	126.821	
3,300.00	3,300.00	3,315.00	3,300.00	7.28	7.31	-91.14	-35.59	-1,792.47	1,792.82	1,778.24	14.59	122.912	
3,400.00	3,400.00	3,415.00	3,400.00	7.50	7.53	-91.14	-35.59	-1,792.47	1,792.82	1,777.79	15.04	119.238	
3,500.00	3,500.00	3,515.00	3,500.00	7.73	7.76	-91.14	-35.59	-1,792.47	1,792.82	1,777.34	15.49	115.776	
3,600.00	3,600.00	3,615.00	3,600.00	7.95	7.98	-91.14	-35.59	-1,792.47	1,792.82	1,776.89	15.93	112.510	
3,700.00	3,700.00	3,715.00	3,700.00	8.18	8.21	-91.14	-35.59	-1,792.47	1,792.82	1,776.44	16.38	109.423	
3,800.00	3,800.00	3,815.00	3,800.00	8.40	8.43	-91.14	-35.59	-1,792.47	1,792.82	1,775.99	16.83	106.501	
3,900.00	3,900.00	3,915.00	3,900.00	8.63	8.66	-91.14	-35.59	-1,792.47	1,792.82	1,775.54	17.28	103.731	
4,000.00	4,000.00	4,015.00	4,000.00	8.85	8.88	-91.14	-35.59	-1,792.47	1,792.82	1,775.09	17.73	101.101	
4,100.00	4,100.00	4,115.00	4,100.00	9.07	9.11	-91.14	-35.59	-1,792.47	1,792.82	1,774.64	18.18	98.602	
4,200.00	4,200.00	4,215.00	4,200.00	9.30	9.33	-91.14	-35.59	-1,792.47	1,792.82	1,774.19	18.63	96.223	
4,300.00	4,300.00	4,315.00	4,300.00	9.52	9.56	-91.14	-35.59	-1,792.47	1,792.82	1,773.74	19.08	93.956	
4,400.00	4,400.00	4,415.00	4,400.00	9.75	9.78	-91.14	-35.59	-1,792.47	1,792.82	1,773.29	19.53	91.794	
4,500.00	4,500.00	4,515.00	4,500.00	9.97	10.01	-91.14	-35.59	-1,792.47	1,792.82	1,772.84	19.98	89.728	
4,600.00	4,600.00	4,615.00	4,600.00	10.20	10.23	-91.14	-35.59	-1,792.47	1,792.82	1,772.39	20.43	87.754	
4,700.00	4,700.00	4,715.00	4,700.00	10.42	10.46	-91.14	-35.59	-1,792.47	1,792.82	1,771.94	20.88	85.865	
4,800.00	4,800.00	4,815.00	4,800.00	10.65	10.68	-91.14	-35.59	-1,792.47	1,792.82	1,771.49	21.33	84.055	
4,900.00	4,900.00	4,915.00	4,900.00	10.87	10.91	-91.14	-35.59	-1,792.47	1,792.82	1,771.04	21.78	82.320	
5,000.00	5,000.00	5,015.00	5,000.00	11.10	11.13	-91.14	-35.59	-1,792.47	1,792.82	1,770.60	22.23	80.655	

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 11H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	11H	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 Draft1	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: D-LEAM/MWD-ADJ												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N-S (usft)	+E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,100.00	5,115.00	5,100.00	11.32	11.36	-91.14	-35.59	-1,792.47	1,792.82	1,770.15	22.68	79.056	
5,200.00	5,200.00	5,215.00	5,200.00	11.55	11.58	-91.14	-35.59	-1,792.47	1,792.82	1,769.70	23.13	77.520	
5,300.00	5,300.00	5,315.00	5,300.00	11.77	11.80	-91.14	-35.59	-1,792.47	1,792.82	1,769.25	23.58	76.042	
5,400.00	5,400.00	5,415.00	5,400.00	12.00	12.03	-91.14	-35.59	-1,792.47	1,792.82	1,768.80	24.03	74.619	
5,500.00	5,500.00	5,515.00	5,500.00	12.22	12.25	-91.14	-35.59	-1,792.47	1,792.82	1,768.35	24.48	73.249	
5,600.00	5,600.00	5,615.00	5,600.00	12.45	12.48	-91.14	-35.59	-1,792.47	1,792.82	1,767.90	24.93	71.927	
5,700.00	5,700.00	5,715.00	5,700.00	12.67	12.70	-91.14	-35.59	-1,792.47	1,792.82	1,767.45	25.37	70.653	
5,800.00	5,800.00	5,815.00	5,800.00	12.90	12.93	-91.14	-35.59	-1,792.47	1,792.82	1,767.00	25.82	69.423	
5,900.00	5,900.00	5,915.00	5,900.00	13.12	13.15	-91.14	-35.59	-1,792.47	1,792.82	1,766.55	26.27	68.236	
6,000.00	6,000.00	6,015.00	6,000.00	13.35	13.38	-91.14	-35.59	-1,792.47	1,792.82	1,766.10	26.72	67.088	
6,100.00	6,100.00	6,115.00	6,100.00	13.57	13.60	-91.14	-35.59	-1,792.47	1,792.82	1,765.65	27.17	65.978	
6,200.00	6,200.00	6,215.00	6,200.00	13.80	13.83	-91.14	-35.59	-1,792.47	1,792.82	1,765.20	27.62	64.904	
6,216.00	6,216.00	6,231.00	6,216.00	13.83	13.86	-91.14	-35.59	-1,792.47	1,792.82	1,765.13	27.69	64.736	
6,250.00	6,249.98	6,264.98	6,249.98	13.90	13.94	89.34	-35.59	-1,792.47	1,792.81	1,764.97	27.84	64.405	
6,300.00	6,299.64	6,314.64	6,299.64	13.98	14.05	89.53	-35.59	-1,792.47	1,792.75	1,764.73	28.03	63.962	
6,350.00	6,348.53	6,363.53	6,348.53	14.07	14.16	89.86	-35.59	-1,792.47	1,792.70	1,764.48	28.22	63.531	
6,367.22	6,365.10	6,380.10	6,365.10	14.10	14.20	90.00	-35.59	-1,792.47	1,792.69	1,764.41	28.28	63.384	
6,400.00	6,396.20	6,411.20	6,396.20	14.16	14.27	90.31	-35.59	-1,792.47	1,792.72	1,764.31	28.41	63.110	
6,450.00	6,442.21	6,457.21	6,442.21	14.25	14.37	90.86	-35.59	-1,792.47	1,792.94	1,764.34	28.60	62.699	
6,500.00	6,486.14	6,501.14	6,486.14	14.33	14.47	91.47	-35.59	-1,792.47	1,793.50	1,764.70	28.79	62.294	
6,550.00	6,527.58	6,542.58	6,527.58	14.44	14.56	92.09	-35.59	-1,792.47	1,794.55	1,765.56	28.99	61.892	
6,600.00	6,566.15	6,581.15	6,566.15	14.57	14.65	92.68	-35.59	-1,792.47	1,796.28	1,767.07	29.21	61.491	
6,650.00	6,601.50	6,616.50	6,601.50	14.74	14.73	93.19	-35.59	-1,792.47	1,798.85	1,769.41	29.45	61.087	
6,700.00	6,633.30	6,648.30	6,633.30	14.94	14.80	93.58	-35.59	-1,792.47	1,802.45	1,772.75	29.71	60.672	
6,750.00	6,661.25	6,676.25	6,661.25	15.18	14.86	93.79	-35.59	-1,792.47	1,807.23	1,777.23	30.00	60.241	
6,800.00	6,685.11	6,700.11	6,685.11	15.46	14.92	93.78	-35.59	-1,792.47	1,813.31	1,782.98	30.33	59.788	
6,850.00	6,704.65	6,719.65	6,704.65	15.78	14.96	93.52	-35.59	-1,792.47	1,820.80	1,790.10	30.70	59.312	
6,900.00	6,719.68	6,734.68	6,719.68	16.15	15.00	92.98	-35.59	-1,792.47	1,829.75	1,798.64	31.11	58.817	
6,950.00	6,730.08	6,745.08	6,730.08	16.56	15.02	92.13	-35.59	-1,792.47	1,840.16	1,808.60	31.56	58.314	
7,000.00	6,735.75	6,750.75	6,735.75	17.00	15.03	90.97	-35.59	-1,792.47	1,852.00	1,819.97	32.03	57.824	
7,030.62	6,736.86	6,751.86	6,736.86	17.29	15.03	90.11	-35.59	-1,792.47	1,859.91	1,827.59	32.32	57.541	
7,100.00	6,737.33	6,752.33	6,737.33	17.99	15.04	90.12	-35.59	-1,792.47	1,879.59	1,846.56	33.02	56.915	
7,200.00	6,738.02	6,753.02	6,738.02	19.10	15.04	90.15	-35.59	-1,792.47	1,912.02	1,877.88	34.14	56.007	
7,300.00	6,738.70	6,753.70	6,738.70	20.32	15.04	90.17	-35.59	-1,792.47	1,949.05	1,913.69	35.36	55.124	
7,400.00	6,739.38	6,754.38	6,739.38	21.62	15.04	90.19	-35.59	-1,792.47	1,990.42	1,953.75	36.66	54.288	
7,500.00	6,740.07	6,661.21	7,784.37	23.00	26.25	121.22	-1,130.79	-1,713.01	2,017.87	1,974.66	43.21	46.695	
7,600.00	6,740.75	6,760.97	7,782.53	24.44	27.68	121.25	-1,230.27	-1,705.79	2,011.03	1,965.32	45.72	43.990	
7,700.00	6,741.43	6,860.73	7,780.70	25.92	29.16	121.29	-1,329.75	-1,698.57	2,004.19	1,955.89	48.30	41.492	
7,800.00	6,742.12	6,960.49	7,778.86	27.45	30.68	121.32	-1,429.24	-1,691.35	1,997.35	1,946.39	50.96	39.193	
7,900.00	6,742.80	6,960.25	7,777.02	29.02	32.24	121.35	-1,528.72	-1,684.13	1,990.52	1,936.83	53.68	37.080	
8,000.00	6,743.49	9,160.01	7,775.18	30.61	33.83	121.39	-1,628.20	-1,676.92	1,983.68	1,927.22	56.45	35.138	
8,100.00	6,744.17	9,259.77	7,773.34	32.23	35.44	121.42	-1,727.68	-1,669.70	1,976.84	1,917.57	59.27	33.354	
8,200.00	6,744.85	9,359.52	7,771.50	33.87	37.08	121.46	-1,827.16	-1,662.48	1,970.00	1,907.88	62.12	31.712	
8,300.00	6,745.54	9,459.28	7,769.66	35.53	38.73	121.50	-1,926.64	-1,655.26	1,963.17	1,898.16	65.01	30.200	
8,400.00	6,746.22	9,559.04	7,767.82	37.21	40.41	121.53	-2,026.12	-1,648.04	1,956.33	1,888.42	67.92	28.804	
8,500.00	6,746.90	9,658.80	7,765.98	38.90	42.10	121.57	-2,125.60	-1,640.83	1,949.50	1,878.64	70.86	27.513	
8,600.00	6,747.59	9,758.56	7,764.14	40.60	43.80	121.60	-2,225.08	-1,633.61	1,942.67	1,868.85	73.81	26.318	
8,700.00	6,748.27	9,858.32	7,762.30	42.32	45.51	121.64	-2,324.56	-1,626.39	1,935.84	1,859.04	76.79	25.209	
8,800.00	6,748.95	9,958.08	7,760.47	44.04	47.24	121.68	-2,424.04	-1,619.17	1,929.00	1,849.22	79.78	24.178	
8,900.00	6,749.64	10,057.84	7,758.63	45.77	48.97	121.71	-2,523.52	-1,611.96	1,922.17	1,839.38	82.79	23.218	

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 11H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	11H	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 Draft1	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: D-LEAM MWD-ADJ														Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
9,000.00	6,750.32	10,157.59	7,756.79	47.51	50.71	121.75	-2,623.00	-1,604.74	1,915.34	1,829.54	85.81	22.321			
9,100.00	6,751.01	10,257.35	7,754.95	49.26	52.46	121.79	-2,722.48	-1,597.52	1,908.51	1,819.68	88.84	21.483			
9,200.00	6,751.69	10,357.11	7,753.11	51.01	54.22	121.83	-2,821.96	-1,590.30	1,901.69	1,809.81	91.87	20.699			
9,300.00	6,752.37	10,456.87	7,751.27	52.77	55.99	121.87	-2,921.44	-1,583.08	1,894.86	1,799.94	94.92	19.963			
9,400.00	6,753.06	10,556.63	7,749.43	54.53	57.76	121.90	-3,020.92	-1,575.87	1,888.03	1,790.06	97.97	19.271			
9,500.00	6,753.74	10,656.39	7,747.59	56.30	59.53	121.94	-3,120.40	-1,568.65	1,881.21	1,780.17	101.03	18.620			
9,600.00	6,754.42	10,756.15	7,745.75	58.07	61.31	121.98	-3,219.88	-1,561.43	1,874.38	1,770.28	104.10	18.006			
9,700.00	6,755.11	10,855.90	7,743.91	59.85	63.09	122.02	-3,319.36	-1,554.21	1,867.56	1,760.39	107.17	17.426			
9,800.00	6,755.79	10,955.66	7,742.08	61.62	64.88	122.06	-3,418.84	-1,546.99	1,860.74	1,750.49	110.24	16.878			
9,830.58	6,756.00	10,986.17	7,741.51	62.17	65.43	122.07	-3,449.26	-1,544.79	1,858.65	1,747.47	111.18	16.717			
9,865.93	6,756.05	11,021.44	7,740.86	62.80	66.06	122.11	-3,484.44	-1,542.23	1,856.42	1,744.15	112.28	16.534			
9,900.00	6,755.81	11,055.45	7,740.24	63.40	66.67	122.14	-3,518.35	-1,539.77	1,854.46	1,741.14	113.32	16.365			
10,000.00	6,755.49	11,155.27	7,738.40	65.19	68.47	122.20	-3,617.89	-1,532.55	1,848.70	1,732.31	116.38	15.885			
10,100.00	6,755.07	11,255.08	7,736.56	66.98	70.27	122.26	-3,717.42	-1,525.33	1,842.94	1,723.49	119.45	15.429			
10,200.00	6,754.66	11,354.90	7,734.72	68.77	72.07	122.32	-3,816.96	-1,518.11	1,837.18	1,714.66	122.51	14.996			
10,300.00	6,754.24	11,454.71	7,732.88	70.56	73.88	122.38	-3,916.49	-1,510.89	1,831.42	1,705.84	125.58	14.584			
10,400.00	6,753.83	11,554.53	7,731.04	72.36	75.68	122.44	-4,016.03	-1,503.66	1,825.66	1,697.02	128.64	14.192			
10,500.00	6,753.41	11,654.34	7,729.20	74.16	77.49	122.50	-4,115.57	-1,496.44	1,819.91	1,688.20	131.71	13.818			
10,600.00	6,753.00	11,754.16	7,727.36	75.96	79.31	122.56	-4,215.10	-1,489.22	1,814.16	1,679.38	134.78	13.461			
10,700.00	6,752.58	11,853.97	7,725.52	77.76	81.12	122.63	-4,314.64	-1,482.00	1,808.41	1,670.57	137.84	13.120			
10,800.00	6,752.16	11,953.79	7,723.68	79.56	82.94	122.69	-4,414.18	-1,474.78	1,802.66	1,661.76	140.90	12.794			
10,900.00	6,751.75	12,053.60	7,721.84	81.36	84.75	122.75	-4,513.71	-1,467.55	1,796.92	1,652.95	143.96	12.482			
11,000.00	6,751.33	12,153.42	7,720.00	83.17	86.57	122.82	-4,613.25	-1,460.33	1,791.17	1,644.15	147.02	12.183			
11,100.00	6,750.92	12,253.23	7,718.16	84.98	88.39	122.88	-4,712.79	-1,453.11	1,785.43	1,635.35	150.08	11.896			
11,200.00	6,750.50	12,353.05	7,716.32	86.78	90.22	122.94	-4,812.32	-1,445.89	1,779.70	1,626.56	153.14	11.621			
11,300.00	6,750.09	12,370.13	7,716.00	88.59	90.53	122.96	-4,829.36	-1,444.65	1,775.89	1,620.93	154.96	11.460			
11,319.15	6,750.01	12,370.13	7,716.00	88.94	90.53	122.96	-4,829.36	-1,444.65	1,775.79	1,620.52	155.26	11.437 CC			
11,320.60	6,750.00	12,370.13	7,716.00	88.97	90.53	122.96	-4,829.36	-1,444.65	1,775.79	1,620.50	155.29	11.436 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 11H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	11H	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 Draft1	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							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-90.30	-0.80	-149.96	149.96				
100.00	100.00	100.00	100.00	0.08	0.10	-90.29	-0.77	-149.90	149.91	149.72	0.18	815.418	
125.68	125.68	125.70	125.70	0.14	0.15	-90.28	-0.74	-149.89	149.89	149.60	0.30	506.773	CC
200.00	200.00	199.62	199.62	0.31	0.31	-90.20	-0.53	-149.98	149.98	149.36	0.62	242.399	
300.00	300.00	299.29	299.29	0.53	0.51	-90.07	-0.19	-150.34	150.34	149.30	1.05	143.565	ES
400.00	400.00	398.72	398.72	0.76	0.69	-90.11	-0.29	-151.00	151.00	149.55	1.45	103.982	
500.00	500.00	497.61	497.60	0.98	0.87	-90.45	-1.20	-152.19	152.21	150.36	1.85	82.228	
600.00	600.00	597.27	597.23	1.21	1.07	-91.06	-2.84	-153.86	153.91	151.63	2.28	67.603	
700.00	700.00	697.90	697.84	1.43	1.30	-91.58	-4.28	-155.44	155.51	152.78	2.73	56.957	
800.00	800.00	798.10	798.02	1.66	1.55	-91.84	-5.03	-156.74	156.84	153.63	3.20	48.960	
900.00	900.00	897.46	897.37	1.88	1.80	-91.98	-5.47	-158.18	158.29	154.61	3.68	42.981	
1,000.00	1,000.00	996.92	996.81	2.11	2.06	-92.06	-5.74	-159.99	160.12	155.96	4.17	38.441	
1,100.00	1,100.00	1,097.61	1,097.49	2.33	2.32	-92.05	-5.78	-161.78	161.90	157.25	4.65	34.820	
1,200.00	1,200.00	1,197.19	1,197.05	2.56	2.58	-92.13	-6.07	-163.43	163.57	158.44	5.13	31.881	
1,300.00	1,300.00	1,294.52	1,294.34	2.78	2.83	-92.56	-7.43	-165.89	166.16	160.55	5.61	29.641	
1,400.00	1,400.00	1,395.26	1,395.00	3.01	3.08	-93.37	-9.95	-169.03	169.39	163.31	6.08	27.854	
1,500.00	1,500.00	1,495.87	1,495.53	3.23	3.32	-94.32	-12.95	-171.62	172.16	165.61	6.55	26.284	
1,600.00	1,600.00	1,596.55	1,596.14	3.46	3.57	-95.23	-15.90	-173.80	174.57	167.55	7.02	24.878	
1,700.00	1,700.00	1,695.67	1,695.20	3.68	3.81	-96.08	-18.74	-175.95	177.01	169.53	7.48	23.652	
1,800.00	1,800.00	1,796.35	1,795.81	3.91	4.06	-96.89	-21.54	-178.21	179.55	171.60	7.96	22.559	
1,900.00	1,900.00	1,895.77	1,895.17	4.13	4.31	-97.69	-24.34	-180.33	182.03	173.60	8.43	21.587	
2,000.00	2,000.00	1,995.13	1,994.46	4.35	4.56	-98.52	-27.38	-182.74	184.86	175.95	8.91	20.752	
2,100.00	2,100.00	2,093.73	2,092.97	4.58	4.82	-99.31	-30.44	-185.61	188.22	178.83	9.39	20.052	
2,200.00	2,200.00	2,194.02	2,193.17	4.80	5.08	-100.01	-33.35	-188.85	191.90	182.02	9.87	19.436	
2,300.00	2,300.00	2,295.41	2,294.47	5.03	5.34	-100.71	-36.24	-191.63	195.11	184.75	10.36	18.832	
2,400.00	2,400.00	2,295.05	2,294.04	5.25	5.60	-101.43	-39.23	-193.99	198.01	187.17	10.84	18.265	
2,500.00	2,500.00	2,295.75	2,294.67	5.48	5.86	-102.13	-42.19	-196.30	200.85	189.53	11.32	17.737	
2,600.00	2,600.00	2,295.64	2,294.50	5.70	6.12	-102.77	-44.97	-198.41	203.52	191.72	11.81	17.239	
2,700.00	2,700.00	2,295.63	2,294.43	5.93	6.38	-103.37	-47.68	-200.56	206.22	193.93	12.29	16.781	
2,800.00	2,800.00	2,296.30	2,295.05	6.15	6.61	-103.91	-50.19	-202.59	208.77	196.02	12.75	16.378	
2,900.00	2,900.00	2,297.16	2,295.88	6.38	6.75	-104.20	-51.74	-204.45	210.93	197.83	13.10	16.086	
3,000.00	3,000.00	2,297.38	2,296.08	6.60	6.78	-104.22	-52.25	-206.24	212.79	199.42	13.37	15.917	
3,100.00	3,100.00	3,094.78	3,093.45	6.83	6.80	-104.01	-52.04	-208.63	215.12	201.51	13.61	15.809	
3,200.00	3,200.00	3,190.37	3,188.91	7.05	6.82	-103.21	-50.03	-213.05	219.12	205.27	13.85	15.816	
3,300.00	3,300.00	3,288.34	3,286.58	7.28	6.85	-101.81	-45.93	-219.58	224.73	210.62	14.11	15.928	
3,400.00	3,400.00	3,387.80	3,385.67	7.50	6.89	-100.31	-41.22	-226.69	230.85	216.48	14.37	16.084	
3,500.00	3,500.00	3,487.39	3,484.89	7.73	6.93	-98.88	-36.53	-233.82	237.14	222.50	14.64	16.201	
3,600.00	3,600.00	3,587.06	3,584.20	7.95	6.98	-97.52	-31.83	-240.96	243.57	228.66	14.91	16.334	
3,700.00	3,700.00	3,686.73	3,683.49	8.18	7.04	-96.24	-27.11	-248.09	250.11	234.92	15.20	16.460	
3,800.00	3,800.00	3,786.23	3,782.62	8.40	7.12	-94.99	-22.28	-255.24	256.80	241.31	15.49	16.582	
3,900.00	3,900.00	3,885.90	3,881.91	8.63	7.21	-93.79	-17.37	-262.43	263.62	247.84	15.79	16.700	
4,000.00	4,000.00	3,986.69	3,982.33	8.85	7.30	-92.65	-12.47	-269.57	270.44	254.35	16.09	16.812	
4,100.00	4,100.00	4,088.17	4,083.49	9.07	7.39	-91.51	-7.26	-275.86	276.45	260.06	16.39	16.866	
4,200.00	4,200.00	4,186.43	4,181.47	9.30	7.49	-90.78	-3.84	-282.17	282.80	266.10	16.70	16.936	
4,300.00	4,300.00	4,288.98	4,283.77	9.52	7.59	-90.17	-0.85	-288.74	289.20	272.19	17.01	16.998	
4,400.00	4,400.00	4,392.62	4,387.22	9.75	7.71	-89.42	2.99	-293.59	293.88	278.54	17.34	16.952	
4,500.00	4,500.00	4,492.77	4,487.21	9.97	7.82	-88.66	6.96	-297.83	298.18	280.52	17.66	16.884	
4,600.00	4,600.00	4,592.80	4,587.07	10.20	7.94	-87.95	10.82	-302.00	302.47	284.48	17.99	16.813	
4,700.00	4,700.00	4,692.81	4,688.92	10.42	8.06	-87.26	14.68	-306.10	306.73	288.41	18.32	16.741	
4,800.00	4,800.00	4,793.09	4,787.06	10.65	8.18	-86.60	18.42	-310.14	310.96	292.30	18.66	16.665	
4,900.00	4,900.00	4,893.06	4,886.88	10.87	8.31	-85.97	22.10	-314.06	315.11	296.11	19.00	16.584	

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 11H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	11H	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 Draft1	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 Tooface (°)	Distance		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)										
5,000.00	5,000.00	4,992.77	4,986.45	11.10	8.45	-85.37	25.75	-317.98	319.31	299.98	19.35	16.505			
5,100.00	5,100.00	5,093.50	5,087.04	11.32	8.58	-84.79	29.33	-321.86	323.45	303.76	19.69	16.424			
5,200.00	5,200.00	5,188.07	5,181.44	11.55	8.72	-84.20	33.12	-326.03	328.24	308.20	20.04	16.378			
5,300.00	5,300.00	5,287.00	5,280.11	11.77	8.88	-83.50	37.79	-331.40	334.14	313.75	20.40	16.380			
5,400.00	5,400.00	5,387.06	5,379.91	12.00	9.03	-82.82	42.45	-336.89	340.15	319.39	20.76	16.384			
5,500.00	5,500.00	5,486.98	5,479.59	12.22	9.19	-82.21	46.83	-342.29	346.08	324.96	21.12	16.384			
5,600.00	5,600.00	5,588.65	5,581.05	12.45	9.36	-81.68	50.79	-347.48	351.68	330.19	21.49	16.364			
5,700.00	5,700.00	5,688.70	5,680.92	12.67	9.52	-81.20	54.54	-352.34	357.05	335.19	21.86	16.334			
5,800.00	5,800.00	5,789.25	5,781.28	12.90	9.69	-80.75	58.16	-357.16	362.35	340.12	22.23	16.300			
5,900.00	5,900.00	5,888.40	5,880.28	13.12	9.85	-80.37	61.36	-361.69	367.39	344.78	22.60	16.255			
6,000.00	6,000.00	5,981.92	5,973.60	13.35	10.01	-80.03	64.49	-366.98	373.54	350.57	22.97	16.264			
6,100.00	6,100.00	6,076.21	6,067.56	13.57	10.19	-79.72	67.86	-374.05	381.53	358.20	23.34	16.348			
6,200.00	6,200.00	6,177.66	6,168.63	13.80	10.38	-79.44	71.21	-382.15	390.00	366.27	23.72	16.439			
6,216.00	6,216.00	6,194.51	6,185.41	13.83	10.41	-79.39	71.85	-383.39	391.26	367.48	23.79	16.449			
6,250.00	6,249.98	6,230.24	6,221.03	13.90	10.48	101.07	73.34	-385.87	394.06	370.14	23.91	16.480			
6,300.00	6,299.64	6,279.44	6,270.08	13.98	10.57	101.54	75.40	-389.15	398.88	374.81	24.06	16.576			
6,350.00	6,348.53	6,327.71	6,318.21	14.07	10.67	102.44	77.17	-392.44	404.88	380.67	24.20	16.728			
6,400.00	6,396.20	6,374.01	6,364.36	14.16	10.76	103.67	78.89	-395.62	412.38	388.05	24.33	16.949			
6,450.00	6,442.21	6,418.29	6,408.50	14.25	10.84	105.11	80.78	-398.68	421.84	397.39	24.44	17.257			
6,500.00	6,486.14	6,463.27	6,453.32	14.33	10.93	106.81	82.94	-401.62	433.54	408.99	24.55	17.663			
6,550.00	6,527.58	6,505.30	6,495.23	14.44	11.01	108.41	85.15	-404.05	447.80	423.16	24.64	18.177			
6,600.00	6,566.15	6,544.42	6,534.24	14.57	11.09	109.76	87.29	-406.06	465.05	440.33	24.73	18.809			
6,650.00	6,601.50	6,580.31	6,570.04	14.74	11.15	110.66	89.12	-407.76	485.57	460.74	24.83	19.552			
6,700.00	6,633.30	6,612.28	6,601.94	14.94	11.21	110.92	90.64	-409.17	509.50	484.50	24.99	20.385			
6,750.00	6,661.25	6,638.94	6,628.55	15.18	11.26	110.28	91.86	-410.29	536.89	511.65	25.24	21.270			
6,800.00	6,685.11	6,661.38	6,650.95	15.46	11.31	108.70	92.86	-411.22	567.60	542.00	25.61	22.167			
6,850.00	6,704.65	6,679.37	6,668.91	15.78	11.34	106.00	93.65	-411.95	601.35	575.25	26.10	23.039			
6,900.00	6,719.68	6,692.73	6,682.24	16.15	11.36	102.00	94.22	-412.49	637.74	611.03	26.71	23.874			
6,950.00	6,730.08	6,701.29	6,690.79	16.56	11.38	96.55	94.59	-412.84	676.31	648.94	27.37	24.712			
7,000.00	6,735.75	6,704.91	6,694.41	17.00	11.39	89.59	94.74	-412.98	716.55	688.82	27.93	25.655			
7,030.62	6,736.86	6,704.72	6,694.21	17.29	11.39	84.67	94.73	-412.97	741.79	713.64	28.15	26.351			
7,100.00	6,737.33	6,702.17	6,691.67	17.99	11.38	84.32	94.62	-412.87	800.29	771.45	28.83	27.756			
7,200.00	6,738.02	6,698.42	6,687.93	19.10	11.37	83.80	94.46	-412.72	887.36	857.44	29.92	29.660			
7,300.00	6,738.70	6,694.63	6,684.14	20.32	11.37	83.28	94.30	-412.57	976.89	945.79	31.10	31.407			
7,400.00	6,739.38	6,690.81	6,680.33	21.62	11.36	82.76	94.14	-412.42	1,068.27	1,035.90	32.37	33.000			
7,500.00	6,740.07	6,643.00	7,754.81	23.00	21.26	156.51	-1,003.21	-433.32	1,106.52	1,079.04	27.48	40.268			
7,600.00	6,740.75	6,738.00	7,754.30	24.44	22.55	156.54	-1,098.18	-431.34	1,104.87	1,076.08	28.79	38.371			
7,700.00	6,741.43	8,828.80	7,754.31	25.92	23.82	156.55	-1,188.98	-430.23	1,104.06	1,073.91	30.15	36.618			
7,752.86	6,741.80	8,875.79	7,754.22	26.73	24.52	156.51	-1,235.96	-430.49	1,103.92	1,073.01	30.91	35.715			
7,800.00	6,742.12	8,917.46	7,754.17	27.45	25.14	156.46	-1,277.63	-431.20	1,104.03	1,072.44	31.60	34.942			
7,900.00	6,742.80	9,005.80	7,754.50	29.02	26.44	156.31	-1,365.94	-433.40	1,105.06	1,071.96	33.10	33.385			
8,000.00	6,743.49	9,094.39	7,755.76	30.61	27.75	156.18	-1,454.49	-435.80	1,107.13	1,072.49	34.64	31.959			
8,100.00	6,744.17	9,225.52	7,757.33	32.23	29.74	156.04	-1,585.58	-437.97	1,108.67	1,072.13	36.54	30.340			
8,200.00	6,744.85	9,422.54	7,753.22	33.87	32.83	156.17	-1,782.34	-431.33	1,108.06	1,067.20	38.86	28.463			
8,300.00	6,745.54	9,515.41	7,748.28	35.53	34.34	156.21	-1,874.83	-426.54	1,096.88	1,056.40	40.48	27.099			
8,400.00	6,746.22	9,590.00	7,743.31	37.21	35.54	156.29	-1,949.25	-422.70	1,090.53	1,048.60	41.93	26.010			
8,500.00	6,746.90	9,662.03	7,742.08	38.90	36.70	156.38	-2,021.20	-419.56	1,086.59	1,043.22	43.37	25.054			
8,600.00	6,747.59	9,733.10	7,741.25	40.60	37.85	156.43	-2,092.23	-417.47	1,084.14	1,039.30	44.84	24.178			
8,624.67	6,747.76	9,748.67	7,741.40	41.03	38.10	156.44	-2,107.80	-417.09	1,084.03	1,038.84	45.19	23.990			
8,700.00	6,748.27	9,801.62	7,742.80	42.32	38.96	156.50	-2,160.72	-415.96	1,084.93	1,038.64	46.28	23.442			

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 11H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	11H	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 Draft1	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	Measured	Vertical	Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre	Between	Between	Minimum	Separation	Warning	
Depth	Depth	Depth	Depth	Depth	Depth	Depth	Tooface	+N/-S	+E/-W	Centres	Ellipses	Separation		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(')	(usft)	(usft)	(usft)	(usft)	(usft)		
8,800.00	6,748.95	9,889.53	7,746.52	44.04	40.38	156.60		-2,248.53	-414.49	1,087.79	1,039.93	47.86	22.726	
8,900.00	6,749.84	10,025.99	7,750.23	45.77	42.65	156.70		-2,384.93	-412.63	1,089.47	1,039.60	49.87	21.844	
9,000.00	6,750.32	10,125.65	7,750.77	47.51	44.30	156.76		-2,484.56	-410.47	1,088.79	1,037.19	51.61	21.098	
9,009.80	6,750.39	10,133.93	7,750.88	47.68	44.44	156.77		-2,492.83	-410.26	1,088.78	1,037.02	51.76	21.035	
9,100.00	6,751.01	10,222.28	7,752.42	49.26	45.90	156.87		-2,581.14	-407.96	1,089.01	1,035.73	53.28	20.439	
9,200.00	6,751.69	10,361.41	7,751.96	51.01	48.25	156.95		-2,720.22	-404.62	1,087.46	1,032.10	55.35	19.646	
9,300.00	6,752.37	10,451.35	7,750.31	52.77	49.75	156.97		-2,810.11	-402.46	1,084.50	1,027.45	57.05	19.009	
9,400.00	6,753.06	10,542.27	7,749.81	54.53	51.25	157.05		-2,900.99	-399.63	1,082.44	1,023.74	58.70	18.439	
9,500.00	6,753.74	10,639.79	7,749.18	56.30	52.88	157.07		-2,998.49	-398.05	1,080.88	1,020.39	60.49	17.870	
9,600.00	6,754.42	10,738.69	7,748.37	58.07	54.54	157.02		-3,097.39	-397.66	1,079.65	1,017.29	62.35	17.315	
9,700.00	6,755.11	10,854.40	7,745.04	59.85	56.49	156.78		-3,213.01	-399.82	1,077.38	1,012.80	64.58	16.684	
9,800.00	6,755.79	10,954.24	7,741.05	61.62	58.19	156.51		-3,312.73	-402.68	1,074.52	1,007.79	66.73	16.103	
9,830.58	6,756.00	10,983.47	7,739.89	62.17	58.68	156.42		-3,341.93	-403.61	1,073.69	1,006.31	67.38	15.934	
9,855.93	6,756.05	11,006.00	7,739.01	62.80	59.07	156.35		-3,364.43	-404.36	1,073.07	1,005.09	67.98	15.786	
9,898.66	6,755.91	11,036.61	7,738.05	63.38	59.58	156.27		-3,395.00	-405.35	1,072.87	1,004.20	68.67	15.624	
9,900.00	6,755.91	11,037.53	7,738.03	63.40	59.59	156.27		-3,395.92	-405.38	1,072.87	1,004.18	68.69	15.619	
10,000.00	6,755.49	11,109.05	7,737.70	65.19	60.79	156.13		-3,467.41	-407.21	1,074.35	1,003.89	70.47	15.247	
10,100.00	6,755.07	11,215.53	7,738.61	66.98	62.56	155.99		-3,573.87	-409.36	1,076.88	1,004.30	72.58	14.838	
10,200.00	6,754.66	11,324.82	7,738.05	68.77	64.41	155.80		-3,683.14	-411.62	1,078.14	1,003.36	74.79	14.416	
10,300.00	6,754.24	11,419.62	7,738.26	70.56	66.01	155.69		-3,777.92	-413.03	1,079.87	1,003.07	76.79	14.062	
10,400.00	6,753.83	11,511.96	7,738.14	72.36	67.58	155.56		-3,870.25	-414.44	1,081.36	1,002.56	78.79	13.724	
10,500.00	6,753.41	11,579.00	7,740.00	74.16	68.71	155.51		-3,937.25	-415.64	1,085.47	1,004.99	80.48	13.487	
10,600.00	6,753.00	11,671.82	7,744.21	75.96	70.29	155.45		-4,029.94	-417.88	1,091.51	1,009.07	82.43	13.241	
10,700.00	6,752.58	11,768.00	7,748.18	77.76	71.95	155.32		-4,125.99	-421.24	1,097.65	1,013.14	84.51	12.988	
10,800.00	6,752.16	11,862.00	7,753.01	79.56	73.54	155.26		-4,219.83	-423.60	1,104.31	1,017.83	86.48	12.770	
10,900.00	6,751.75	12,043.51	7,760.37	81.36	76.62	155.55		-4,401.07	-418.83	1,108.03	1,019.28	88.75	12.484	
11,000.00	6,751.33	12,179.06	7,759.04	83.17	78.97	155.82		-4,536.38	-410.93	1,105.53	1,014.91	90.62	12.200	
11,100.00	6,750.92	12,283.92	7,755.68	84.98	80.81	155.91		-4,641.08	-406.34	1,101.73	1,009.26	92.47	11.915	
11,200.00	6,750.50	12,389.14	7,750.72	86.78	82.65	155.86		-4,746.15	-403.95	1,097.43	1,002.89	94.53	11.609	
11,300.00	6,750.09	12,458.00	7,746.88	88.59	82.83	155.76		-4,812.90	-403.57	1,093.38	997.36	96.02	11.387	
11,316.40	6,750.02	12,456.00	7,746.88	88.89	82.83	155.76		-4,812.90	-403.57	1,093.26	997.08	96.18	11.367	
11,320.60	6,750.00	12,456.00	7,746.88	88.97	82.83	155.76		-4,812.90	-403.57	1,093.27	997.04	96.22	11.362 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 11H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	11H	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 Draft1	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	Vertical	Offset	Vertical	Semi Major Axis		Highside	Distance		Between	Between	Minimum	Separation	Warning
Measured Depth (usft)	Depth (usft)	Measured Depth (usft)	Depth (usft)	Reference (usft)	Offset (usft)	Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor	
0.00	0.00	0.00	14.00	0.00	0.00	89.65	7.79	1,258.35	1,258.45				
100.00	100.00	86.00	100.00	0.08	0.07	89.65	7.79	1,258.35	1,258.37	1,258.22	0.16	8,076.440	
200.00	200.00	186.00	200.00	0.31	0.28	89.65	7.79	1,258.35	1,258.37	1,257.79	0.59	2,149.172	
300.00	300.00	286.00	300.00	0.53	0.50	89.65	7.79	1,258.35	1,258.37	1,257.34	1.04	1,215.764	
400.00	400.00	386.00	400.00	0.76	0.73	89.65	7.79	1,258.35	1,258.37	1,256.89	1.48	847.630	
500.00	500.00	486.00	500.00	0.98	0.95	89.65	7.79	1,258.35	1,258.37	1,256.44	1.93	650.621	
600.00	600.00	586.00	600.00	1.21	1.18	89.65	7.79	1,258.35	1,258.37	1,255.99	2.38	527.920	
700.00	700.00	686.00	700.00	1.43	1.40	89.65	7.79	1,258.35	1,258.37	1,255.54	2.83	444.157	
800.00	800.00	786.00	800.00	1.66	1.63	89.65	7.79	1,258.35	1,258.37	1,255.09	3.28	383.334	
900.00	900.00	886.00	900.00	1.88	1.85	89.65	7.79	1,258.35	1,258.37	1,254.64	3.73	337.163	
1,000.00	1,000.00	986.00	1,000.00	2.11	2.07	89.65	7.79	1,258.35	1,258.37	1,254.19	4.18	300.919	
1,100.00	1,100.00	1,086.00	1,100.00	2.33	2.30	89.65	7.79	1,258.35	1,258.37	1,253.74	4.63	271.711	
1,200.00	1,200.00	1,186.00	1,200.00	2.56	2.52	89.65	7.79	1,258.35	1,258.37	1,253.29	5.08	247.671	
1,300.00	1,300.00	1,286.00	1,300.00	2.78	2.75	89.65	7.79	1,258.35	1,258.37	1,252.84	5.53	227.539	
1,400.00	1,400.00	1,386.00	1,400.00	3.01	2.97	89.65	7.79	1,258.35	1,258.37	1,252.39	5.98	210.434	
1,500.00	1,500.00	1,486.00	1,500.00	3.23	3.20	89.65	7.79	1,258.35	1,258.37	1,251.94	6.43	195.721	
1,600.00	1,600.00	1,586.00	1,600.00	3.46	3.42	89.65	7.79	1,258.35	1,258.37	1,251.50	6.88	182.931	
1,700.00	1,700.00	1,686.00	1,700.00	3.68	3.65	89.65	7.79	1,258.35	1,258.37	1,251.05	7.33	171.710	
1,800.00	1,800.00	1,786.00	1,800.00	3.91	3.87	89.65	7.79	1,258.35	1,258.37	1,250.60	7.78	161.786	
1,900.00	1,900.00	1,886.00	1,900.00	4.13	4.10	89.65	7.79	1,258.35	1,258.37	1,250.15	8.23	152.946	
2,000.00	2,000.00	1,986.00	2,000.00	4.35	4.32	89.65	7.79	1,258.35	1,258.37	1,249.70	8.68	145.023	
2,100.00	2,100.00	2,086.00	2,100.00	4.58	4.55	89.65	7.79	1,258.35	1,258.37	1,249.25	9.13	137.879	
2,200.00	2,200.00	2,186.00	2,200.00	4.80	4.77	89.65	7.79	1,258.35	1,258.37	1,248.80	9.58	131.407	
2,300.00	2,300.00	2,286.00	2,300.00	5.03	5.00	89.65	7.79	1,258.35	1,258.37	1,248.35	10.03	125.515	
2,400.00	2,400.00	2,386.00	2,400.00	5.25	5.22	89.65	7.79	1,258.35	1,258.37	1,247.90	10.48	120.129	
2,500.00	2,500.00	2,486.00	2,500.00	5.48	5.45	89.65	7.79	1,258.35	1,258.37	1,247.45	10.92	115.186	
2,600.00	2,600.00	2,586.00	2,600.00	5.70	5.67	89.65	7.79	1,258.35	1,258.37	1,247.00	11.37	110.633	
2,700.00	2,700.00	2,686.00	2,700.00	5.93	5.90	89.65	7.79	1,258.35	1,258.37	1,246.55	11.82	106.427	
2,800.00	2,800.00	2,786.00	2,800.00	6.15	6.12	89.65	7.79	1,258.35	1,258.37	1,246.10	12.27	102.529	
2,900.00	2,900.00	2,886.00	2,900.00	6.38	6.35	89.65	7.79	1,258.35	1,258.37	1,245.65	12.72	98.906	
3,000.00	3,000.00	2,986.00	3,000.00	6.60	6.57	89.65	7.79	1,258.35	1,258.37	1,245.20	13.17	95.531	
3,100.00	3,100.00	3,086.00	3,100.00	6.83	6.79	89.65	7.79	1,258.35	1,258.37	1,244.75	13.62	92.378	
3,200.00	3,200.00	3,186.00	3,200.00	7.05	7.02	89.65	7.79	1,258.35	1,258.37	1,244.30	14.07	89.427	
3,300.00	3,300.00	3,286.00	3,300.00	7.28	7.24	89.65	7.79	1,258.35	1,258.37	1,243.85	14.52	86.659	
3,400.00	3,400.00	3,386.00	3,400.00	7.50	7.47	89.65	7.79	1,258.35	1,258.37	1,243.40	14.97	84.057	
3,500.00	3,500.00	3,486.00	3,500.00	7.73	7.69	89.65	7.79	1,258.35	1,258.37	1,242.95	15.42	81.606	
3,600.00	3,600.00	3,586.00	3,600.00	7.95	7.92	89.65	7.79	1,258.35	1,258.37	1,242.50	15.87	79.295	
3,700.00	3,700.00	3,686.00	3,700.00	8.18	8.14	89.65	7.79	1,258.35	1,258.37	1,242.06	16.32	77.110	
3,800.00	3,800.00	3,786.00	3,800.00	8.40	8.37	89.65	7.79	1,258.35	1,258.37	1,241.61	16.77	75.043	
3,900.00	3,900.00	3,886.00	3,900.00	8.63	8.59	89.65	7.79	1,258.35	1,258.37	1,241.16	17.22	73.084	
4,000.00	4,000.00	3,986.00	4,000.00	8.85	8.82	89.65	7.79	1,258.35	1,258.37	1,240.71	17.67	71.224	
4,100.00	4,100.00	4,086.00	4,100.00	9.07	9.04	89.65	7.79	1,258.35	1,258.37	1,240.26	18.12	69.457	
4,200.00	4,200.00	4,186.00	4,200.00	9.30	9.27	89.65	7.79	1,258.35	1,258.37	1,239.81	18.57	67.776	
4,300.00	4,300.00	4,286.00	4,300.00	9.52	9.49	89.65	7.79	1,258.35	1,258.37	1,239.36	19.02	66.173	
4,400.00	4,400.00	4,386.00	4,400.00	9.75	9.72	89.65	7.79	1,258.35	1,258.37	1,238.91	19.47	64.645	
4,500.00	4,500.00	4,486.00	4,500.00	9.97	9.94	89.65	7.79	1,258.35	1,258.37	1,238.46	19.92	63.186	
4,600.00	4,600.00	4,586.00	4,600.00	10.20	10.17	89.65	7.79	1,258.35	1,258.37	1,238.01	20.36	61.791	
4,700.00	4,700.00	4,686.00	4,700.00	10.42	10.39	89.65	7.79	1,258.35	1,258.37	1,237.56	20.81	60.457	
4,800.00	4,800.00	4,786.00	4,800.00	10.65	10.62	89.65	7.79	1,258.35	1,258.37	1,237.11	21.26	59.179	
4,900.00	4,900.00	4,886.00	4,900.00	10.87	10.84	89.65	7.79	1,258.35	1,258.37	1,236.66	21.71	57.953	
5,000.00	5,000.00	4,986.00	5,000.00	11.10	11.07	89.65	7.79	1,258.35	1,258.37	1,236.21	22.16	56.778	

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 11H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	11H	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 Draft1	Offset TVD Reference:	Reference Datum

Offset Design Lone Tree Draw "13" State - 8H - OH - Plan #1														Offset Site Error:	0.00 usft
Survey Program: O-LEAM MWD-ADJ														Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis		Distance		Minimum Separation		Separation Factor		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
5,100.00	5,100.00	5,086.00	5,100.00	11.32	11.29	89.65	7.79	1,258.35	1,258.37	1,235.76	22.61	55.649			
5,200.00	5,200.00	5,186.00	5,200.00	11.55	11.51	89.65	7.79	1,258.35	1,258.37	1,235.31	23.06	54.565			
5,300.00	5,300.00	5,286.00	5,300.00	11.77	11.74	89.65	7.79	1,258.35	1,258.37	1,234.86	23.51	53.521			
5,400.00	5,400.00	5,386.00	5,400.00	12.00	11.96	89.65	7.79	1,258.35	1,258.37	1,234.41	23.96	52.517			
5,500.00	5,500.00	5,486.00	5,500.00	12.22	12.19	89.65	7.79	1,258.35	1,258.37	1,233.96	24.41	51.550			
5,600.00	5,600.00	5,586.00	5,600.00	12.45	12.41	89.65	7.79	1,258.35	1,258.37	1,233.51	24.86	50.618			
5,700.00	5,700.00	5,686.00	5,700.00	12.67	12.64	89.65	7.79	1,258.35	1,258.37	1,233.06	25.31	49.719			
5,800.00	5,800.00	5,786.00	5,800.00	12.90	12.86	89.65	7.79	1,258.35	1,258.37	1,232.61	25.76	48.851			
5,900.00	5,900.00	5,886.00	5,900.00	13.12	13.09	89.65	7.79	1,258.35	1,258.37	1,232.17	26.21	48.013			
6,000.00	6,000.00	5,986.00	6,000.00	13.35	13.31	89.65	7.79	1,258.35	1,258.37	1,231.72	26.66	47.204			
6,100.00	6,100.00	6,086.00	6,100.00	13.57	13.54	89.65	7.79	1,258.35	1,258.37	1,231.27	27.11	46.421			
6,200.00	6,200.00	6,186.00	6,200.00	13.80	13.76	89.65	7.79	1,258.35	1,258.37	1,230.82	27.56	45.664			
6,216.00	6,216.00	6,202.00	6,216.00	13.83	13.80	89.65	7.79	1,258.35	1,258.37	1,230.74	27.63	45.545			
6,250.00	6,249.98	6,235.98	6,249.98	13.90	13.87	-89.96	7.79	1,258.35	1,258.37	1,230.60	27.77	45.312			
6,260.42	6,260.36	6,246.36	6,260.36	13.92	13.90	-90.00	7.79	1,258.35	1,258.37	1,230.56	27.81	45.246 CC			
6,300.00	6,299.64	6,285.64	6,299.64	13.98	13.99	-90.22	7.79	1,258.35	1,258.38	1,230.42	27.96	45.001			
6,350.00	6,348.53	6,334.53	6,348.53	14.07	14.10	-90.67	7.79	1,258.35	1,258.47	1,230.31	28.15	44.702 ES			
6,400.00	6,396.20	6,382.20	6,396.20	14.16	14.20	-91.29	7.79	1,258.35	1,258.74	1,230.40	28.34	44.415			
6,450.00	6,442.21	6,428.21	6,442.21	14.25	14.31	-92.04	7.79	1,258.35	1,259.36	1,230.83	28.53	44.143			
6,500.00	6,486.14	6,472.14	6,486.14	14.33	14.41	-92.86	7.79	1,258.35	1,260.53	1,231.80	28.72	43.888			
6,550.00	6,527.58	6,513.58	6,527.58	14.44	14.50	-93.70	7.79	1,258.35	1,262.47	1,233.54	28.92	43.652			
6,600.00	6,566.15	6,552.15	6,566.15	14.57	14.59	-94.49	7.79	1,258.35	1,265.42	1,236.29	29.13	43.438			
6,650.00	6,601.50	6,587.50	6,601.50	14.74	14.66	-95.15	7.79	1,258.35	1,269.63	1,240.27	29.36	43.244			
6,700.00	6,633.30	6,619.30	6,633.30	14.94	14.74	-95.63	7.79	1,258.35	1,275.33	1,245.71	29.61	43.068			
6,750.00	6,661.25	6,647.25	6,661.25	15.18	14.80	-95.86	7.79	1,258.35	1,282.71	1,252.81	29.90	42.904			
6,800.00	6,685.11	6,671.11	6,685.11	15.46	14.85	-95.77	7.79	1,258.35	1,291.94	1,261.72	30.22	42.746			
6,850.00	6,704.65	6,690.65	6,704.65	15.78	14.90	-95.32	7.79	1,258.35	1,303.13	1,272.54	30.60	42.591			
6,900.00	6,719.68	6,705.68	6,719.68	16.15	14.93	-94.47	7.79	1,258.35	1,316.32	1,285.31	31.02	42.440			
6,950.00	6,730.08	6,716.08	6,730.08	16.56	14.95	-93.19	7.79	1,258.35	1,331.49	1,300.02	31.48	42.302			
7,000.00	6,735.75	6,721.75	6,735.75	17.00	14.97	-91.45	7.79	1,258.35	1,348.54	1,316.58	31.96	42.195			
7,030.62	6,736.86	6,722.86	6,736.86	17.29	14.97	-90.16	7.79	1,258.35	1,359.84	1,327.58	32.28	42.155			
7,100.00	6,737.33	6,723.33	6,737.33	17.99	14.97	-90.18	7.79	1,258.35	1,387.62	1,354.66	32.96	42.101			
7,200.00	6,738.02	6,724.02	6,738.02	19.10	14.97	-90.21	7.79	1,258.35	1,432.63	1,398.56	34.07	42.046			
7,300.00	6,738.70	6,724.70	6,738.70	20.32	14.97	-90.24	7.79	1,258.35	1,483.04	1,447.74	35.29	42.021			
7,400.00	6,739.38	6,725.38	6,739.38	21.62	14.97	-90.28	7.79	1,258.35	1,538.29	1,501.70	36.60	42.032			
7,500.00	6,740.07	6,494.92	7,730.43	23.00	24.49	-128.30	-983.96	1,261.39	1,597.76	1,557.89	39.87	40.072			
7,600.00	6,740.75	6,594.92	7,730.31	24.44	25.84	-128.29	-1,083.96	1,261.69	1,596.90	1,554.78	42.12	37.915			
7,700.00	6,741.43	6,694.91	7,730.20	25.92	27.25	-128.28	-1,183.95	1,262.00	1,596.04	1,551.58	44.45	35.902			
7,800.00	6,742.12	6,794.91	7,730.08	27.45	28.71	-128.27	-1,283.95	1,262.31	1,595.18	1,548.31	46.87	34.034			
7,900.00	6,742.80	6,894.90	7,729.96	29.02	30.21	-128.25	-1,383.94	1,262.61	1,594.32	1,544.97	49.35	32.305			
8,000.00	6,743.49	6,994.90	7,729.85	30.61	31.74	-128.24	-1,483.94	1,262.92	1,593.46	1,541.57	51.89	30.707			
8,100.00	6,744.17	9,094.89	7,729.73	32.23	33.30	-128.23	-1,583.93	1,263.23	1,592.60	1,538.12	54.48	29.232			
8,200.00	6,744.85	9,194.89	7,729.62	33.87	34.89	-128.22	-1,683.93	1,263.53	1,591.74	1,534.63	57.11	27.870			
8,300.00	6,745.54	9,294.89	7,729.50	35.53	36.51	-128.21	-1,783.92	1,263.84	1,590.89	1,531.10	59.78	26.611			
8,400.00	6,746.22	9,394.88	7,729.38	37.21	38.14	-128.19	-1,883.92	1,264.15	1,590.03	1,527.54	62.49	25.446			
8,500.00	6,746.90	9,494.88	7,729.27	38.90	39.79	-128.18	-1,983.91	1,264.45	1,589.17	1,523.95	65.22	24.367			
8,600.00	6,747.59	9,594.87	7,729.15	40.60	41.45	-128.17	-2,083.91	1,264.76	1,588.31	1,520.33	67.98	23.366			
8,700.00	6,748.27	9,694.87	7,729.03	42.32	43.13	-128.16	-2,183.90	1,265.06	1,587.45	1,516.70	70.76	22.436			
8,800.00	6,748.95	9,794.87	7,728.92	44.04	44.82	-128.14	-2,283.90	1,265.37	1,586.59	1,513.04	73.56	21.570			
8,900.00	6,749.64	9,894.86	7,728.80	45.77	46.52	-128.13	-2,383.89	1,265.68	1,585.73	1,509.36	76.37	20.763			

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 11H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	11H	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 Draft1	Offset TVD Reference:	Reference Datum

Offset Design Lone Tree Draw "13" State - 8H - OH - Plan #1													Offset Site Error:	0:00 usft
Survey Program: O-LEAM MWD-ADJ													Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis		Highside Tooface (')	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance		Minimum Separation (usft)	Separation Factor	Warning	
Reference	Offset	Reference	Offset	Reference	Offset				Between Centres (usft)	Between Ellipses (usft)				
9,000.00	6,750.32	9,994.86	7,728.68	47.51	48.23	-128.12	-2,483.89	1,265.98	1,584.88	1,505.67	79.21	20.009		
9,100.00	6,751.01	10,094.85	7,728.57	49.26	49.95	-128.11	-2,583.88	1,266.29	1,584.02	1,501.96	82.06	19.304		
9,200.00	6,751.69	10,194.85	7,728.45	51.01	51.68	-128.09	-2,683.88	1,266.60	1,583.16	1,498.24	84.92	18.643		
9,300.00	6,752.37	10,294.84	7,728.33	52.77	53.41	-128.08	-2,783.87	1,266.90	1,582.30	1,494.51	87.80	18.023		
9,400.00	6,753.06	10,394.84	7,728.22	54.53	55.15	-128.07	-2,883.87	1,267.21	1,581.44	1,490.76	90.68	17.440		
9,500.00	6,753.74	10,494.84	7,728.10	56.30	56.90	-128.06	-2,983.86	1,267.51	1,580.59	1,487.01	93.58	16.891		
9,600.00	6,754.42	10,594.83	7,727.99	58.07	58.65	-128.04	-3,083.86	1,267.82	1,579.73	1,483.25	96.48	16.373		
9,700.00	6,755.11	10,694.83	7,727.87	59.85	60.41	-128.03	-3,183.86	1,268.13	1,578.87	1,479.47	99.40	15.885		
9,800.00	6,755.79	10,794.82	7,727.75	61.62	62.17	-128.02	-3,283.85	1,268.43	1,578.01	1,475.70	102.32	15.423		
9,830.58	6,756.00	10,825.41	7,727.72	62.17	62.71	-128.01	-3,314.43	1,268.53	1,577.75	1,474.54	103.21	15.286		
9,865.93	6,756.05	10,860.75	7,727.68	62.80	63.33	-128.02	-3,349.78	1,268.64	1,577.49	1,473.26	104.23	15.134		
9,900.00	6,755.91	10,894.82	7,727.64	63.40	63.93	-128.03	-3,383.85	1,268.74	1,577.28	1,472.06	105.21	14.991		
10,000.00	6,755.49	10,994.81	7,727.52	65.19	65.70	-128.07	-3,483.84	1,269.05	1,576.66	1,468.55	108.10	14.585		
10,100.00	6,755.07	11,094.81	7,727.40	66.98	67.47	-128.10	-3,583.83	1,269.35	1,576.04	1,465.04	110.99	14.200		
10,200.00	6,754.66	11,194.80	7,727.29	68.77	69.25	-128.13	-3,683.83	1,269.66	1,575.41	1,461.53	113.88	13.833		
10,300.00	6,754.24	11,294.80	7,727.17	70.56	71.02	-128.16	-3,783.82	1,269.97	1,574.80	1,458.01	116.78	13.485		
10,400.00	6,753.83	11,394.79	7,727.05	72.36	72.80	-128.19	-3,883.81	1,270.27	1,574.18	1,454.50	119.68	13.153		
10,500.00	6,753.41	11,494.78	7,726.94	74.16	74.59	-128.22	-3,983.81	1,270.58	1,573.56	1,450.98	122.58	12.837		
10,600.00	6,753.00	11,594.78	7,726.82	75.96	76.37	-128.25	-4,083.80	1,270.88	1,572.94	1,447.46	125.48	12.535		
10,700.00	6,752.58	11,694.77	7,726.70	77.76	78.16	-128.29	-4,183.80	1,271.19	1,572.32	1,443.94	128.38	12.247		
10,800.00	6,752.16	11,794.77	7,726.59	79.56	79.95	-128.32	-4,283.79	1,271.50	1,571.70	1,440.41	131.29	11.971		
10,900.00	6,751.75	11,894.76	7,726.47	81.36	81.74	-128.35	-4,383.78	1,271.80	1,571.09	1,436.89	134.19	11.708		
11,000.00	6,751.33	11,994.76	7,726.36	83.17	83.53	-128.38	-4,483.78	1,272.11	1,570.47	1,433.37	137.10	11.455		
11,100.00	6,750.92	12,094.75	7,726.24	84.98	85.33	-128.41	-4,583.77	1,272.42	1,569.85	1,429.85	140.01	11.213		
11,200.00	6,750.50	12,194.74	7,726.12	86.78	87.12	-128.44	-4,683.76	1,272.72	1,569.24	1,426.32	142.92	10.980		
11,300.00	6,750.09	12,294.74	7,726.01	88.59	88.92	-128.48	-4,783.76	1,273.03	1,568.62	1,422.80	145.82	10.757		
11,314.46	6,750.03	12,299.56	7,726.00	88.85	89.01	-128.48	-4,788.58	1,273.04	1,568.56	1,422.46	146.11	10.736		
11,320.60	6,750.00	12,299.56	7,726.00	88.97	89.01	-128.48	-4,788.58	1,273.04	1,568.58	1,422.38	146.20	10.729 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 11H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	11H	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 Draft1	Offset TVD Reference:	Reference Datum

Offset Design Lone Tree Draw "13" State - 9H - 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 Toolface (°)	Distance		Minimum Separation (usft)	Separation Factor	Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)							
0.00	0.00	0.00	34.00	0.00	0.00	92.79	-141.66	2,908.53	2,912.18						
100.00	100.00	66.00	100.00	0.08	0.05	92.79	-141.66	2,908.53	2,911.98	2,911.84	0.14	N/A			
200.00	200.00	166.00	200.00	0.31	0.23	92.79	-141.66	2,908.53	2,911.98	2,911.44	0.54	5,386.940			
300.00	300.00	266.00	300.00	0.53	0.46	92.79	-141.66	2,908.53	2,911.98	2,910.99	0.99	2,941.111			
400.00	400.00	366.00	400.00	0.76	0.68	92.79	-141.66	2,908.53	2,911.98	2,910.54	1.44	2,022.731			
500.00	500.00	466.00	500.00	0.98	0.91	92.79	-141.66	2,908.53	2,911.98	2,910.09	1.89	1,541.415			
600.00	600.00	566.00	600.00	1.21	1.13	92.79	-141.66	2,908.53	2,911.98	2,909.64	2.34	1,245.132			
700.00	700.00	666.00	700.00	1.43	1.36	92.79	-141.66	2,908.53	2,911.98	2,909.19	2.79	1,044.385			
800.00	800.00	766.00	800.00	1.66	1.58	92.79	-141.66	2,908.53	2,911.98	2,908.74	3.24	899.382			
900.00	900.00	866.00	900.00	1.88	1.80	92.79	-141.66	2,908.53	2,911.98	2,908.29	3.69	789.735			
1,000.00	1,000.00	966.00	1,000.00	2.11	2.03	92.79	-141.66	2,908.53	2,911.98	2,907.84	4.14	703.917			
1,100.00	1,100.00	1,066.00	1,100.00	2.33	2.25	92.79	-141.66	2,908.53	2,911.98	2,907.39	4.59	634.923			
1,200.00	1,200.00	1,166.00	1,200.00	2.56	2.48	92.79	-141.66	2,908.53	2,911.98	2,906.94	5.04	578.246			
1,300.00	1,300.00	1,266.00	1,300.00	2.78	2.70	92.79	-141.66	2,908.53	2,911.98	2,906.49	5.49	530.858			
1,400.00	1,400.00	1,366.00	1,400.00	3.01	2.93	92.79	-141.66	2,908.53	2,911.98	2,906.04	5.93	490.649			
1,500.00	1,500.00	1,466.00	1,500.00	3.23	3.15	92.79	-141.66	2,908.53	2,911.98	2,905.59	6.38	456.103			
1,600.00	1,600.00	1,566.00	1,600.00	3.46	3.38	92.79	-141.66	2,908.53	2,911.98	2,905.14	6.83	426.101			
1,700.00	1,700.00	1,666.00	1,700.00	3.68	3.60	92.79	-141.66	2,908.53	2,911.98	2,904.69	7.28	399.802			
1,800.00	1,800.00	1,766.00	1,800.00	3.91	3.83	92.79	-141.66	2,908.53	2,911.98	2,904.24	7.73	376.561			
1,900.00	1,900.00	1,866.00	1,900.00	4.13	4.05	92.79	-141.66	2,908.53	2,911.98	2,903.80	8.18	355.874			
2,000.00	2,000.00	1,966.00	2,000.00	4.35	4.28	92.79	-141.66	2,908.53	2,911.98	2,903.35	8.63	337.341			
2,100.00	2,100.00	2,066.00	2,100.00	4.58	4.50	92.79	-141.66	2,908.53	2,911.98	2,902.90	9.08	320.643			
2,200.00	2,200.00	2,166.00	2,200.00	4.80	4.73	92.79	-141.66	2,908.53	2,911.98	2,902.45	9.53	305.520			
2,300.00	2,300.00	2,266.00	2,300.00	5.03	4.95	92.79	-141.66	2,908.53	2,911.98	2,902.00	9.98	291.760			
2,400.00	2,400.00	2,366.00	2,400.00	5.25	5.18	92.79	-141.66	2,908.53	2,911.98	2,901.55	10.43	279.185			
2,500.00	2,500.00	2,466.00	2,500.00	5.48	5.40	92.79	-141.66	2,908.53	2,911.98	2,901.10	10.88	267.650			
2,600.00	2,600.00	2,566.00	2,600.00	5.70	5.63	92.79	-141.66	2,908.53	2,911.98	2,900.65	11.33	257.030			
2,700.00	2,700.00	2,666.00	2,700.00	5.93	5.85	92.79	-141.66	2,908.53	2,911.98	2,900.20	11.78	247.221			
2,800.00	2,800.00	2,766.00	2,800.00	6.15	6.08	92.79	-141.66	2,908.53	2,911.98	2,899.75	12.23	238.132			
2,900.00	2,900.00	2,866.00	2,900.00	6.38	6.30	92.79	-141.66	2,908.53	2,911.98	2,899.30	12.68	229.689			
3,000.00	3,000.00	2,966.00	3,000.00	6.60	6.52	92.79	-141.66	2,908.53	2,911.98	2,898.85	13.13	221.823			
3,100.00	3,100.00	3,066.00	3,100.00	6.83	6.75	92.79	-141.66	2,908.53	2,911.98	2,898.40	13.58	214.479			
3,200.00	3,200.00	3,166.00	3,200.00	7.05	6.97	92.79	-141.66	2,908.53	2,911.98	2,897.95	14.03	207.605			
3,300.00	3,300.00	3,266.00	3,300.00	7.28	7.20	92.79	-141.66	2,908.53	2,911.98	2,897.50	14.48	201.158			
3,400.00	3,400.00	3,366.00	3,400.00	7.50	7.42	92.79	-141.66	2,908.53	2,911.98	2,897.05	14.93	195.100			
3,500.00	3,500.00	3,466.00	3,500.00	7.73	7.65	92.79	-141.66	2,908.53	2,911.98	2,896.60	15.38	189.395			
3,600.00	3,600.00	3,566.00	3,600.00	7.95	7.87	92.79	-141.66	2,908.53	2,911.98	2,896.15	15.82	184.015			
3,700.00	3,700.00	3,666.00	3,700.00	8.18	8.10	92.79	-141.66	2,908.53	2,911.98	2,895.70	16.27	178.932			
3,800.00	3,800.00	3,766.00	3,800.00	8.40	8.32	92.79	-141.66	2,908.53	2,911.98	2,895.25	16.72	174.123			
3,900.00	3,900.00	3,866.00	3,900.00	8.63	8.55	92.79	-141.66	2,908.53	2,911.98	2,894.80	17.17	169.565			
4,000.00	4,000.00	3,966.00	4,000.00	8.85	8.77	92.79	-141.66	2,908.53	2,911.98	2,894.36	17.62	165.239			
4,100.00	4,100.00	4,066.00	4,100.00	9.07	9.00	92.79	-141.66	2,908.53	2,911.98	2,893.91	18.07	161.129			
4,200.00	4,200.00	4,166.00	4,200.00	9.30	9.22	92.79	-141.66	2,908.53	2,911.98	2,893.46	18.52	157.219			
4,300.00	4,300.00	4,266.00	4,300.00	9.52	9.45	92.79	-141.66	2,908.53	2,911.98	2,893.01	18.97	153.493			
4,400.00	4,400.00	4,366.00	4,400.00	9.75	9.67	92.79	-141.66	2,908.53	2,911.98	2,892.56	19.42	149.940			
4,500.00	4,500.00	4,466.00	4,500.00	9.97	9.90	92.79	-141.66	2,908.53	2,911.98	2,892.11	19.87	146.548			
4,600.00	4,600.00	4,566.00	4,600.00	10.20	10.12	92.79	-141.66	2,908.53	2,911.98	2,891.66	20.32	143.306			
4,700.00	4,700.00	4,666.00	4,700.00	10.42	10.35	92.79	-141.66	2,908.53	2,911.98	2,891.21	20.77	140.204			
4,800.00	4,800.00	4,766.00	4,800.00	10.65	10.57	92.79	-141.66	2,908.53	2,911.98	2,890.76	21.22	137.234			
4,900.00	4,900.00	4,866.00	4,900.00	10.87	10.80	92.79	-141.66	2,908.53	2,911.98	2,890.31	21.67	134.387			
5,000.00	5,000.00	4,966.00	5,000.00	11.10	11.02	92.79	-141.66	2,908.53	2,911.98	2,889.86	22.12	131.656			

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 11H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	11H	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 Draft1	Offset TVD Reference:	Reference Datum

Offset Design Lone Tree Draw "13" State - 9H - 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 Toolface (°)	Distance		Minimum Separation (usft)	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)					
5,100.00	5,100.00	5,066.00	5,100.00	11.32	11.25	92.79	-141.66	2,908.53	2,911.98	2,889.41	22.57	129.033	
5,200.00	5,200.00	5,166.00	5,200.00	11.55	11.47	92.79	-141.66	2,908.53	2,911.98	2,888.96	23.02	126.513	
5,300.00	5,300.00	5,266.00	5,300.00	11.77	11.69	92.79	-141.66	2,908.53	2,911.98	2,888.51	23.47	124.090	
5,400.00	5,400.00	5,366.00	5,400.00	12.00	11.92	92.79	-141.66	2,908.53	2,911.98	2,888.06	23.92	121.757	
5,500.00	5,500.00	5,466.00	5,500.00	12.22	12.14	92.79	-141.66	2,908.53	2,911.98	2,887.61	24.37	119.511	
5,600.00	5,600.00	5,566.00	5,600.00	12.45	12.37	92.79	-141.66	2,908.53	2,911.98	2,887.16	24.82	117.346	
5,700.00	5,700.00	5,666.00	5,700.00	12.67	12.59	92.79	-141.66	2,908.53	2,911.98	2,886.71	25.26	115.258	
5,800.00	5,800.00	5,766.00	5,800.00	12.90	12.82	92.79	-141.66	2,908.53	2,911.98	2,886.26	25.71	113.243	
5,900.00	5,900.00	5,866.00	5,900.00	13.12	13.04	92.79	-141.66	2,908.53	2,911.98	2,885.81	26.16	111.298	
6,000.00	6,000.00	5,966.00	6,000.00	13.35	13.27	92.79	-141.66	2,908.53	2,911.98	2,885.36	26.61	109.418	
6,100.00	6,100.00	6,066.00	6,100.00	13.57	13.49	92.79	-141.66	2,908.53	2,911.98	2,884.91	27.06	107.600	
6,200.00	6,200.00	6,166.00	6,200.00	13.80	13.72	92.79	-141.66	2,908.53	2,911.98	2,884.47	27.51	105.842	
6,216.00	6,216.00	6,182.00	6,216.00	13.83	13.75	92.79	-141.66	2,908.53	2,911.98	2,884.39	27.58	105.566	
6,250.00	6,249.98	6,215.98	6,249.98	13.90	13.83	-86.80	-141.66	2,908.53	2,911.92	2,884.19	27.73	105.023	
6,300.00	6,299.64	6,265.64	6,299.64	13.98	13.94	-86.94	-141.66	2,908.53	2,911.60	2,883.69	27.92	104.293	
6,350.00	6,348.53	6,314.53	6,348.53	14.07	14.05	-87.20	-141.66	2,908.53	2,911.06	2,882.96	28.11	103.576	
6,400.00	6,396.20	6,362.20	6,396.20	14.16	14.16	-87.56	-141.66	2,908.53	2,910.34	2,882.05	28.29	102.863	
6,450.00	6,442.21	6,408.21	6,442.21	14.25	14.26	-88.01	-141.66	2,908.53	2,909.52	2,881.04	28.48	102.147	
6,500.00	6,486.14	6,452.14	6,486.14	14.33	14.36	-88.51	-141.66	2,908.53	2,908.70	2,880.02	28.68	101.416	
6,550.00	6,527.58	6,493.58	6,527.58	14.44	14.45	-89.04	-141.66	2,908.53	2,907.98	2,879.10	28.89	100.659	
6,600.00	6,566.15	6,532.15	6,566.15	14.57	14.54	-89.58	-141.66	2,908.53	2,907.50	2,878.38	29.11	99.865	
6,641.08	6,595.44	6,561.44	6,595.44	14.71	14.61	-90.00	-141.66	2,908.53	2,907.35	2,878.04	29.32	99.171	
6,650.00	6,601.50	6,567.50	6,601.50	14.74	14.62	-90.09	-141.66	2,908.53	2,907.36	2,878.00	29.36	99.026	
6,700.00	6,633.30	6,599.30	6,633.30	14.94	14.69	-90.53	-141.66	2,908.53	2,907.70	2,878.07	29.63	98.133	
6,750.00	6,661.25	6,627.25	6,661.25	15.18	14.75	-90.88	-141.66	2,908.53	2,908.64	2,878.71	29.93	97.182	
6,800.00	6,685.11	6,651.11	6,685.11	15.46	14.81	-91.12	-141.66	2,908.53	2,910.28	2,880.02	30.26	96.171	
6,850.00	6,704.65	6,670.65	6,704.65	15.78	14.85	-91.20	-141.66	2,908.53	2,912.70	2,882.08	30.63	95.100	
6,900.00	6,719.68	6,685.68	6,719.68	16.15	14.89	-91.13	-141.66	2,908.53	2,915.98	2,884.95	31.03	93.978	
6,950.00	6,730.08	6,696.08	6,730.08	16.56	14.91	-90.87	-141.66	2,908.53	2,920.14	2,888.68	31.46	92.817	
7,000.00	6,735.75	6,701.75	6,735.75	17.00	14.92	-90.42	-141.66	2,908.53	2,925.21	2,893.28	31.92	91.638	
7,030.62	6,736.86	6,702.86	6,736.86	17.29	14.92	-90.05	-141.66	2,908.53	2,928.74	2,896.53	32.21	90.917	
7,100.00	6,737.33	6,703.33	6,737.33	17.99	14.93	-90.06	-141.66	2,908.53	2,937.91	2,905.00	32.91	89.260	
7,200.00	6,738.02	6,704.02	6,738.02	19.10	14.93	-90.07	-141.66	2,908.53	2,953.96	2,919.93	34.03	86.808	
7,300.00	6,738.70	6,704.70	6,738.70	20.32	14.93	-90.08	-141.66	2,908.53	2,973.28	2,938.03	35.25	84.354	
7,400.00	6,739.38	6,705.38	6,739.38	21.62	14.93	-90.10	-141.66	2,908.53	2,995.82	2,959.26	36.55	81.956	
7,500.00	6,740.07	6,706.07	6,740.07	23.00	14.93	-90.11	-141.66	2,908.53	3,021.50	2,983.57	37.93	79.655	
7,600.00	6,740.75	6,707.02	7,830.01	24.44	25.79	-110.94	-1,228.64	2,853.09	3,049.44	3,002.05	47.40	64.341	
7,700.00	6,741.43	6,736.85	7,830.29	25.92	27.18	-110.97	-1,328.34	2,848.00	3,043.82	2,993.73	50.09	60.762	
7,800.00	6,742.12	6,836.68	7,830.57	27.45	28.61	-111.00	-1,428.04	2,842.91	3,038.21	2,985.33	52.88	57.458	
7,900.00	6,742.80	6,936.50	7,830.86	29.02	30.08	-111.04	-1,527.74	2,837.83	3,032.59	2,976.86	55.73	54.414	
8,000.00	6,743.49	9,036.33	7,831.14	30.61	31.59	-111.07	-1,627.43	2,832.74	3,026.98	2,968.33	58.65	51.614	
8,100.00	6,744.17	9,136.16	7,831.43	32.23	33.14	-111.10	-1,727.13	2,827.66	3,021.36	2,959.75	61.61	49.037	
8,200.00	6,744.85	9,235.98	7,831.71	33.87	34.70	-111.14	-1,826.83	2,822.57	3,015.75	2,951.12	64.63	46.665	
8,300.00	6,745.54	9,335.81	7,831.99	35.53	36.29	-111.17	-1,926.52	2,817.49	3,010.14	2,942.46	67.68	44.479	
8,400.00	6,746.22	9,435.64	7,832.28	37.21	37.90	-111.20	-2,026.22	2,812.40	3,004.53	2,933.77	70.76	42.461	
8,500.00	6,746.90	9,535.47	7,832.56	38.90	39.53	-111.24	-2,125.92	2,807.32	2,998.92	2,925.04	73.87	40.596	
8,600.00	6,747.59	9,635.29	7,832.85	40.60	41.17	-111.27	-2,225.62	2,802.23	2,993.31	2,916.30	77.01	38.869	
8,700.00	6,748.27	9,735.12	7,833.13	42.32	42.83	-111.30	-2,325.31	2,797.15	2,987.70	2,907.53	80.17	37.267	
8,800.00	6,748.95	9,834.95	7,833.41	44.04	44.50	-111.34	-2,425.01	2,792.06	2,982.09	2,898.74	83.35	35.778	
8,900.00	6,749.64	9,934.78	7,833.70	45.77	46.18	-111.37	-2,524.71	2,786.98	2,976.49	2,889.94	86.55	34.392	

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 11H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	11H	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 Draft1	Offset TVD Reference:	Reference Datum

Offset Design Lone Tree Draw "13" State - 9H - 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		
9,000.00	6,750.32	10,034.60	7,833.98	47.51	47.87	-111.41	-2,624.40	2,781.89	2,970.88	2,881.13	89.76	33.100		
9,100.00	6,751.01	10,247.10	7,833.50	49.26	51.34	-111.50	-2,836.24	2,765.39	2,961.73	2,867.12	94.61	31.304		
9,200.00	6,751.69	10,346.63	7,833.07	51.01	53.04	-111.55	-2,935.38	2,756.55	2,952.34	2,854.51	97.83	30.179		
9,300.00	6,752.37	10,446.16	7,832.63	52.77	54.75	-111.60	-3,034.51	2,747.70	2,942.95	2,841.89	101.06	29.122		
9,400.00	6,753.06	10,545.68	7,832.20	54.53	56.46	-111.65	-3,133.64	2,738.86	2,933.56	2,829.27	104.29	28.129		
9,500.00	6,753.74	10,645.21	7,831.76	56.30	58.18	-111.69	-3,232.77	2,730.02	2,924.17	2,816.64	107.53	27.193		
9,600.00	6,754.42	10,744.74	7,831.32	58.07	59.90	-111.74	-3,331.90	2,721.17	2,914.79	2,804.01	110.78	26.311		
9,700.00	6,755.11	10,844.26	7,830.89	59.85	61.63	-111.79	-3,431.04	2,712.33	2,905.41	2,791.37	114.04	25.478		
9,800.00	6,755.79	10,943.79	7,830.45	61.62	63.37	-111.84	-3,530.17	2,703.49	2,896.03	2,778.73	117.30	24.690		
9,830.58	6,756.00	10,974.23	7,830.32	62.17	63.90	-111.86	-3,560.49	2,700.78	2,893.16	2,774.87	118.29	24.458		
9,865.93	6,756.05	11,009.40	7,830.16	62.80	64.51	-111.95	-3,595.52	2,697.66	2,889.83	2,770.44	119.39	24.205		
9,900.00	6,755.81	11,043.29	7,830.01	63.40	65.10	-111.97	-3,629.28	2,694.84	2,886.60	2,766.10	120.50	23.956		
10,000.00	6,755.49	11,142.77	7,829.58	65.19	66.84	-112.05	-3,728.36	2,685.81	2,877.12	2,753.37	123.74	23.250		
10,100.00	6,755.07	11,242.25	7,829.14	66.98	68.58	-112.13	-3,827.44	2,676.97	2,867.64	2,740.65	127.00	22.581		
10,200.00	6,754.66	11,341.73	7,828.71	68.77	70.33	-112.20	-3,926.53	2,668.13	2,858.17	2,727.92	130.25	21.944		
10,300.00	6,754.24	11,441.20	7,828.27	70.56	72.07	-112.28	-4,025.61	2,659.29	2,848.71	2,715.20	133.50	21.338		
10,400.00	6,753.83	11,540.68	7,827.83	72.36	73.82	-112.36	-4,124.69	2,650.45	2,839.24	2,702.49	136.76	20.761		
10,500.00	6,753.41	11,640.16	7,827.40	74.16	75.58	-112.43	-4,223.78	2,641.61	2,829.79	2,689.78	140.01	20.211		
10,600.00	6,753.00	11,739.64	7,826.96	75.96	77.33	-112.51	-4,322.86	2,632.77	2,820.34	2,677.07	143.26	19.686		
10,700.00	6,752.58	11,839.11	7,826.53	77.76	79.09	-112.59	-4,421.94	2,623.93	2,810.89	2,664.38	146.52	19.184		
10,800.00	6,752.16	11,938.59	7,826.09	79.56	80.85	-112.67	-4,521.02	2,615.09	2,801.46	2,651.68	149.77	18.705		
10,900.00	6,751.75	12,038.07	7,825.65	81.36	82.61	-112.75	-4,620.11	2,606.26	2,792.02	2,638.99	153.03	18.245		
11,000.00	6,751.33	12,137.55	7,825.22	83.17	84.37	-112.83	-4,719.19	2,597.42	2,782.59	2,626.31	156.28	17.805		
11,100.00	6,750.92	12,187.37	7,825.00	84.98	85.25	-112.87	-4,768.82	2,592.99	2,773.61	2,614.86	158.75	17.472		
11,200.00	6,750.50	12,187.37	7,825.00	86.78	85.25	-112.87	-4,768.82	2,592.99	2,767.77	2,607.33	160.44	17.251		
11,300.00	6,750.09	12,187.37	7,825.00	88.59	85.25	-112.87	-4,768.82	2,592.99	2,765.54	2,603.41	162.13	17.058		
11,311.84	6,750.04	12,187.37	7,825.00	88.81	85.25	-112.87	-4,768.82	2,592.99	2,765.51	2,603.18	162.33	17.036 CC		
11,320.60	6,750.00	12,187.37	7,825.00	88.97	85.25	-112.87	-4,768.82	2,592.99	2,765.53	2,603.05	162.48	17.021 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 11H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	11H	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 Draft1	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 (')	Distance		Minimum Separation (usft)	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)					
0.00	0.00	0.00	34.00	0.00	0.00	-177.54	-3,159.48	-135.50	3,162.57				
100.00	100.00	64.23	98.23	0.08	0.07	-177.54	-3,159.49	-135.58	3,162.40	3,162.25	0.16	N/A	
200.00	200.00	164.89	198.89	0.31	0.28	-177.54	-3,159.54	-136.00	3,162.47	3,161.87	0.59	5,329.463	
300.00	300.00	260.46	294.46	0.53	0.54	-177.52	-3,159.58	-136.62	3,162.53	3,161.46	1.07	2,956.255	
400.00	400.00	353.57	387.56	0.76	0.78	-177.51	-3,159.82	-137.26	3,162.83	3,161.29	1.54	2,059.098	
500.00	500.00	446.35	480.34	0.98	1.01	-177.50	-3,160.26	-137.84	3,163.32	3,161.33	1.99	1,585.932	
600.00	600.00	542.03	576.02	1.21	1.25	-177.49	-3,160.83	-138.38	3,164.05	3,161.60	2.46	1,288.295	
700.00	700.00	642.97	676.96	1.43	1.48	-177.48	-3,161.66	-138.90	3,164.79	3,161.87	2.92	1,084.832	
800.00	800.00	739.99	773.97	1.66	1.70	-177.48	-3,162.38	-139.00	3,165.54	3,162.18	3.36	943.125	
900.00	900.00	836.46	870.43	1.88	1.92	-177.47	-3,163.23	-139.64	3,166.45	3,162.65	3.81	831.741	
1,000.00	1,000.00	932.98	966.95	2.11	2.16	-177.47	-3,164.11	-139.90	3,167.38	3,163.11	4.26	742.886	
1,100.00	1,100.00	1,021.11	1,055.08	2.33	2.36	-177.47	-3,165.22	-139.99	3,168.64	3,163.94	4.69	674.942	
1,200.00	1,200.00	1,117.15	1,151.11	2.56	2.60	-177.46	-3,166.82	-140.44	3,170.11	3,164.95	5.16	614.573	
1,300.00	1,300.00	1,211.08	1,245.01	2.78	2.85	-177.44	-3,168.13	-141.41	3,171.76	3,166.13	5.63	563.444	
1,400.00	1,400.00	1,314.63	1,348.55	3.01	3.12	-177.42	-3,169.79	-142.67	3,173.42	3,167.29	6.13	517.831	
1,500.00	1,500.00	1,413.22	1,447.11	3.23	3.38	-177.40	-3,171.42	-143.84	3,175.12	3,168.50	6.61	480.128	
1,600.00	1,600.00	1,514.94	1,575.80	3.46	3.71	-177.36	-3,172.82	-146.15	3,176.28	3,169.12	7.16	443.466	
1,700.00	1,700.00	1,617.13	1,680.97	3.68	3.96	-177.32	-3,173.33	-148.38	3,176.85	3,169.21	7.64	415.738	
1,800.00	1,800.00	1,714.01	1,776.83	3.91	4.20	-177.29	-3,173.90	-150.48	3,177.55	3,169.45	8.10	392.277	
1,900.00	1,900.00	1,816.77	1,882.56	4.13	4.46	-177.24	-3,174.51	-152.78	3,178.23	3,169.64	8.59	370.187	
2,000.00	2,000.00	1,922.70	1,996.46	4.35	4.73	-177.21	-3,174.80	-154.97	3,178.58	3,169.50	9.08	350.015	
2,100.00	2,100.00	2,027.72	2,111.47	4.58	4.98	-177.18	-3,174.57	-156.82	3,178.45	3,168.89	9.56	332.520	
2,200.00	2,200.00	2,134.51	2,218.24	4.80	5.20	-177.14	-3,173.96	-158.30	3,177.96	3,167.96	10.00	317.757	
2,300.00	2,300.00	2,240.58	2,314.30	5.03	5.40	-177.12	-3,173.38	-159.73	3,177.42	3,167.00	10.42	304.847	
2,400.00	2,400.00	2,343.93	2,417.64	5.25	5.61	-177.09	-3,172.81	-161.22	3,176.95	3,166.09	10.87	292.392	
2,500.00	2,500.00	2,443.39	2,517.09	5.48	5.82	-177.06	-3,172.17	-162.77	3,176.39	3,165.09	11.30	281.037	
2,600.00	2,600.00	2,548.65	2,619.34	5.70	6.04	-177.04	-3,171.52	-164.21	3,175.83	3,164.08	11.74	270.414	
2,700.00	2,700.00	2,655.75	2,709.43	5.93	6.24	-177.02	-3,171.03	-165.22	3,175.35	3,163.18	12.17	260.979	
2,800.00	2,800.00	2,761.06	2,814.73	6.15	6.48	-177.00	-3,170.65	-166.20	3,175.04	3,162.41	12.63	251.434	
2,900.00	2,900.00	2,877.63	2,911.30	6.38	6.69	-176.98	-3,170.16	-167.18	3,174.59	3,161.52	13.07	242.922	
3,000.00	3,000.00	2,983.18	3,016.84	6.60	6.91	-176.97	-3,169.70	-167.98	3,174.19	3,160.68	13.51	234.897	
3,100.00	3,100.00	3,083.91	3,117.57	6.83	7.11	-176.95	-3,169.10	-168.60	3,173.63	3,159.69	13.94	227.714	
3,200.00	3,200.00	3,201.50	3,235.15	7.05	7.32	-176.94	-3,168.13	-169.29	3,172.84	3,158.47	14.37	220.808	
3,300.00	3,300.00	3,303.49	3,337.13	7.28	7.48	-176.93	-3,166.94	-169.80	3,171.70	3,156.95	14.75	215.004	
3,400.00	3,400.00	3,411.29	3,444.92	7.50	7.63	-176.92	-3,165.50	-170.11	3,170.39	3,155.26	15.13	209.540	
3,500.00	3,500.00	3,508.95	3,542.57	7.73	7.77	-176.92	-3,164.16	-170.40	3,169.03	3,153.53	15.49	204.545	
3,600.00	3,600.00	3,621.55	3,655.16	7.95	7.95	-176.91	-3,162.41	-170.96	3,167.51	3,151.61	15.90	199.209	
3,700.00	3,700.00	3,733.09	3,766.68	8.18	8.11	-176.90	-3,160.14	-171.17	3,165.48	3,149.19	16.29	194.335	
3,800.00	3,800.00	3,828.52	3,862.09	8.40	8.25	-176.90	-3,158.23	-171.15	3,163.48	3,146.83	16.65	190.035	
3,900.00	3,900.00	3,928.86	3,962.41	8.63	8.40	-176.89	-3,156.22	-171.31	3,161.48	3,144.46	17.02	185.721	
4,000.00	4,000.00	4,025.68	4,059.21	8.85	8.55	-176.89	-3,154.38	-171.43	3,159.59	3,142.18	17.40	181.565	
4,100.00	4,100.00	4,124.53	4,158.04	9.07	8.72	-176.88	-3,152.47	-171.66	3,157.67	3,139.88	17.79	177.459	
4,200.00	4,200.00	4,211.82	4,245.32	9.30	8.88	-176.88	-3,151.04	-172.00	3,156.05	3,137.87	18.18	173.609	
4,300.00	4,300.00	4,310.10	4,343.59	9.52	9.06	-176.87	-3,149.65	-172.32	3,154.66	3,136.07	18.59	169.704	
4,400.00	4,400.00	4,418.69	4,452.16	9.75	9.27	-176.86	-3,148.00	-172.68	3,153.16	3,134.14	19.02	165.778	
4,500.00	4,500.00	4,523.70	4,557.16	9.97	9.47	-176.85	-3,146.02	-173.00	3,151.29	3,131.85	19.45	162.035	
4,600.00	4,600.00	4,602.26	4,635.71	10.20	9.63	-176.85	-3,144.86	-173.31	3,149.83	3,130.00	19.83	158.829	
4,700.00	4,700.00	4,712.99	4,746.43	10.42	9.86	-176.84	-3,143.37	-173.60	3,148.50	3,128.23	20.26	155.258	
4,800.00	4,800.00	4,811.82	4,845.05	10.65	10.06	-176.83	-3,141.90	-174.06	3,147.04	3,126.33	20.71	151.975	
4,900.00	4,900.00	4,904.25	4,937.66	10.87	10.26	-176.82	-3,140.66	-174.44	3,145.73	3,124.80	21.13	148.878	
5,000.00	5,000.00	5,003.04	5,036.45	11.10	10.48	-176.81	-3,139.48	-174.88	3,144.56	3,122.98	21.58	145.717	

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 11H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	11H	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 Draft1	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 (")	Distance		Minimum Separation (usft)	Separation Factor	Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)							
5,100.00	5,100.00	5,102.50	5,135.90	11.32	10.72	-176.80	-3,138.30	-175.39	3,143.41	3,121.36	22.04	142.591			
5,200.00	5,200.00	5,201.97	5,235.36	11.55	10.96	-176.79	-3,137.14	-175.90	3,142.27	3,119.76	22.51	139.595			
5,300.00	5,300.00	5,301.43	5,334.82	11.77	11.20	-176.78	-3,136.00	-176.40	3,141.15	3,118.18	22.98	136.720			
5,400.00	5,400.00	5,400.90	5,434.27	12.00	11.44	-176.77	-3,134.88	-176.89	3,140.05	3,116.61	23.44	133.961			
5,500.00	5,500.00	5,500.36	5,533.73	12.22	11.68	-176.76	-3,133.77	-177.38	3,138.97	3,115.07	23.91	131.309			
5,600.00	5,600.00	5,599.83	5,633.19	12.45	11.92	-176.75	-3,132.69	-177.85	3,137.91	3,113.54	24.37	128.760			
5,700.00	5,700.00	5,699.30	5,732.65	12.67	12.17	-176.74	-3,131.61	-178.32	3,136.86	3,112.02	24.84	126.307			
5,800.00	5,800.00	5,798.76	5,832.11	12.90	12.41	-176.73	-3,130.56	-178.79	3,135.82	3,110.52	25.30	123.944			
5,900.00	5,900.00	5,898.23	5,831.57	13.12	12.65	-176.72	-3,129.52	-179.24	3,134.81	3,109.04	25.77	121.667			
6,000.00	6,000.00	5,997.70	6,031.03	13.35	12.89	-176.71	-3,128.50	-179.69	3,133.81	3,107.58	26.23	119.472			
6,100.00	6,100.00	6,097.17	6,130.50	13.57	13.13	-176.70	-3,127.50	-180.13	3,132.83	3,106.13	26.70	117.354			
6,200.00	6,200.00	6,196.64	6,229.96	13.80	13.37	-176.69	-3,126.51	-180.56	3,131.86	3,104.70	27.16	115.309			
6,216.00	6,216.00	6,212.55	6,245.87	13.83	13.41	-176.69	-3,126.35	-180.63	3,131.71	3,104.47	27.23	114.988			
6,250.00	6,249.98	6,246.34	6,279.66	13.90	13.49	3.76	-3,126.02	-180.77	3,130.28	3,102.95	27.33	114.554			
6,300.00	6,299.64	6,295.68	6,329.00	13.98	13.61	3.82	-3,125.54	-180.98	3,124.17	3,096.92	27.25	114.639			
6,350.00	6,348.53	6,344.21	6,377.53	14.07	13.72	3.92	-3,125.08	-181.19	3,113.36	3,086.41	26.95	115.530			
6,400.00	6,396.20	6,391.49	6,424.80	14.16	13.84	4.07	-3,124.63	-181.38	3,097.93	3,071.51	26.42	117.270			
6,450.00	6,442.21	6,437.07	6,470.38	14.25	13.95	4.27	-3,124.20	-181.57	3,078.03	3,052.36	25.66	119.932			
6,500.00	6,486.14	6,480.55	6,513.86	14.33	14.05	4.54	-3,123.79	-181.75	3,053.84	3,029.14	24.70	123.624			
6,550.00	6,527.58	6,521.52	6,554.82	14.44	14.15	4.90	-3,123.41	-181.92	3,025.59	3,002.04	23.55	128.490			
6,600.00	6,566.15	6,559.60	6,592.90	14.57	14.24	5.37	-3,123.06	-182.07	2,993.53	2,971.31	22.22	134.708			
6,650.00	6,601.50	6,594.45	6,627.75	14.74	14.33	5.99	-3,122.74	-182.21	2,957.97	2,937.21	20.76	142.477			
6,700.00	6,633.30	6,625.74	6,659.04	14.94	14.40	6.83	-3,122.45	-182.34	2,919.22	2,900.01	19.21	151.951			
6,750.00	6,661.25	6,653.18	6,686.48	15.18	14.47	8.01	-3,122.20	-182.44	2,877.65	2,860.01	17.65	163.051			
6,800.00	6,685.11	6,676.53	6,709.83	15.46	14.53	9.72	-3,121.99	-182.54	2,833.64	2,817.44	16.20	174.902			
6,850.00	6,704.65	6,695.56	6,728.86	15.78	14.57	12.40	-3,121.82	-182.61	2,787.59	2,772.47	15.12	184.346			
6,900.00	6,719.68	6,710.10	6,743.40	16.15	14.61	17.07	-3,121.69	-182.67	2,739.93	2,724.94	14.99	182.778			
6,950.00	6,730.08	6,720.02	6,753.31	16.56	14.63	26.82	-3,121.60	-182.71	2,691.10	2,673.72	17.38	154.796			
7,000.00	6,735.75	6,725.22	6,758.51	17.00	14.64	54.04	-3,121.56	-182.73	2,641.55	2,615.12	26.43	99.655			
7,030.62	6,736.86	6,726.05	6,759.34	17.29	14.65	91.30	-3,121.55	-182.73	2,611.04	2,579.11	31.92	81.796			
7,100.00	6,737.33	6,725.90	6,759.20	17.99	14.65	91.26	-3,121.55	-182.73	2,541.88	2,509.26	32.62	77.921			
7,200.00	6,738.02	6,725.69	6,758.99	19.10	14.65	91.20	-3,121.55	-182.73	2,442.23	2,408.49	33.73	72.396			
7,300.00	6,738.70	6,725.48	6,758.78	20.32	14.64	91.14	-3,121.55	-182.73	2,342.60	2,307.65	34.95	67.024			
7,400.00	6,739.38	6,725.27	6,758.57	21.62	14.64	91.08	-3,121.56	-182.73	2,243.01	2,206.75	36.26	61.865			
7,500.00	6,740.07	6,725.06	6,758.36	23.00	14.64	91.03	-3,121.56	-182.73	2,143.45	2,105.82	37.63	56.956			
7,600.00	6,740.75	6,724.85	6,758.15	24.44	14.64	90.97	-3,121.56	-182.73	2,043.94	2,004.87	39.07	52.314			
7,700.00	6,741.43	6,724.64	6,757.94	25.92	14.64	90.91	-3,121.56	-182.73	1,944.48	1,903.92	40.56	47.944			
7,800.00	6,742.12	6,724.43	6,757.73	27.45	14.64	90.85	-3,121.56	-182.72	1,845.08	1,802.99	42.09	43.840			
7,900.00	6,742.80	6,724.22	6,757.52	29.02	14.64	90.79	-3,121.56	-182.72	1,745.74	1,702.09	43.65	39.994			
8,000.00	6,743.49	6,724.01	6,757.31	30.61	14.64	90.74	-3,121.57	-182.72	1,646.49	1,601.25	45.24	36.391			
8,100.00	6,744.17	6,723.80	6,757.10	32.23	14.64	90.68	-3,121.57	-182.72	1,547.33	1,500.47	46.86	33.017			
8,200.00	6,744.85	6,723.59	6,756.89	33.87	14.64	90.62	-3,121.57	-182.72	1,448.29	1,399.79	48.51	29.858			
8,300.00	6,745.54	6,723.38	6,756.67	35.53	14.64	90.56	-3,121.57	-182.72	1,349.39	1,299.23	50.17	26.899			
8,400.00	6,746.22	6,723.17	6,756.46	37.21	14.64	90.50	-3,121.57	-182.72	1,250.67	1,198.82	51.84	24.125			
8,500.00	6,746.90	6,722.96	6,756.25	38.90	14.64	90.44	-3,121.58	-182.72	1,152.16	1,098.63	53.53	21.523			
8,600.00	6,747.59	6,722.75	6,756.04	40.60	14.64	90.39	-3,121.58	-182.72	1,053.94	998.70	55.24	19.081			
8,700.00	6,748.27	6,722.54	6,755.83	42.32	14.64	90.33	-3,121.58	-182.72	956.08	899.13	56.95	16.788			
8,800.00	6,748.95	6,722.32	6,755.62	44.04	14.64	90.27	-3,121.58	-182.72	858.72	800.05	58.67	14.636			
8,900.00	6,749.64	6,722.11	6,755.41	45.77	14.64	90.21	-3,121.58	-182.72	762.04	701.64	60.40	12.616			
9,000.00	6,750.32	6,721.90	6,755.20	47.51	14.64	90.15	-3,121.59	-182.72	666.34	604.20	62.14	10.723			

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 11H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	11H	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 Draft1	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		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)					
9,100.00	6,751.01	6,721.69	6,754.99	49.26	14.64	90.09	-3,121.59	-182.71	572.12	508.23	63.89	8.955			
9,200.00	6,751.69	6,721.48	6,754.78	51.01	14.63	90.03	-3,121.59	-182.71	480.24	414.59	65.64	7.316			
9,300.00	6,752.37	6,721.27	6,754.56	52.77	14.63	89.98	-3,121.59	-182.71	392.34	324.95	67.40	5.821			
9,400.00	6,753.06	6,721.06	6,754.35	54.53	14.63	89.92	-3,121.59	-182.71	311.84	242.67	69.16	4.509			
9,500.00	6,753.74	6,720.85	6,754.14	56.30	14.63	89.86	-3,121.59	-182.71	246.07	175.14	70.93	3.469			
9,600.00	6,754.42	6,720.63	6,753.93	58.07	14.63	89.80	-3,121.60	-182.71	209.42	136.72	72.70	2.881			
9,633.46	6,754.65	6,720.56	6,753.86	58.66	14.63	89.78	-3,121.60	-182.71	206.73	133.43	73.29	2.821	CC, ES, SF		
9,700.00	6,755.11	6,720.42	6,753.72	59.85	14.63	89.74	-3,121.60	-182.71	217.17	142.69	74.47	2.916			
9,800.00	6,755.79	6,720.21	6,753.51	61.62	14.63	89.68	-3,121.60	-182.71	265.46	189.21	76.25	3.481			
9,830.58	6,756.00	6,720.15	6,753.44	62.17	14.63	89.66	-3,121.60	-182.71	285.64	208.85	76.80	3.719			
9,865.93	6,756.05	6,719.88	6,753.17	62.80	14.63	88.93	-3,121.60	-182.71	311.15	233.74	77.41	4.019			
9,900.00	6,755.91	6,719.43	6,752.72	63.40	14.63	88.80	-3,121.61	-182.71	337.48	259.46	78.02	4.326			
10,000.00	6,755.49	6,718.11	6,751.41	65.19	14.63	88.44	-3,121.62	-182.70	421.21	341.43	79.79	5.279			
10,100.00	6,755.07	6,716.80	6,750.10	66.98	14.62	88.07	-3,121.63	-182.70	510.83	429.27	81.56	6.263			
10,200.00	6,754.66	6,715.48	6,748.78	68.77	14.62	87.70	-3,121.64	-182.69	603.71	520.38	83.33	7.245			
10,300.00	6,754.24	6,714.17	6,747.46	70.56	14.62	87.34	-3,121.65	-182.68	698.56	613.46	85.10	8.209			
10,400.00	6,753.83	6,712.85	6,746.15	72.36	14.61	86.97	-3,121.67	-182.68	794.67	707.80	86.87	9.148			
10,500.00	6,753.41	6,711.54	6,744.83	74.16	14.61	86.61	-3,121.68	-182.67	891.64	803.00	88.63	10.060			
10,600.00	6,753.00	6,710.22	6,743.52	75.96	14.61	86.24	-3,121.69	-182.67	989.20	898.80	90.40	10.943			
10,700.00	6,752.58	6,708.90	6,742.20	77.76	14.60	85.87	-3,121.70	-182.66	1,087.21	995.05	92.16	11.797			
10,800.00	6,752.16	6,707.58	6,740.88	79.56	14.60	85.51	-3,121.71	-182.66	1,185.55	1,091.63	93.92	12.624			
10,900.00	6,751.75	6,706.26	6,739.56	81.36	14.60	85.14	-3,121.73	-182.65	1,284.14	1,188.47	95.67	13.423			
11,000.00	6,751.33	6,704.95	6,738.24	83.17	14.59	84.78	-3,121.74	-182.65	1,382.94	1,285.52	97.42	14.196			
11,100.00	6,750.92	6,703.63	6,736.92	84.98	14.59	84.41	-3,121.75	-182.64	1,481.89	1,382.73	99.17	14.943			
11,200.00	6,750.50	6,702.31	6,735.60	86.78	14.59	84.05	-3,121.76	-182.64	1,580.98	1,480.07	100.91	15.667			
11,300.00	6,750.09	6,700.99	6,734.28	88.59	14.59	83.69	-3,121.77	-182.63	1,680.17	1,577.53	102.65	16.368			
11,320.60	6,750.00	6,700.71	6,734.01	88.97	14.58	83.61	-3,121.77	-182.63	1,700.62	1,597.61	103.01	16.510			

Leam Drilling Systems LLC

Anticollision Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 11H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	11H	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 Draft1	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-ISCWSA, 9564-Project												Offset Well Error:	0.00 usft
Reference	Vertical	Offset	Vertical	Semi Major Axis		Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning
Measured Depth (usft)	Depth (usft)	Measured Depth (usft)	Depth (usft)	Reference (usft)	Offset (usft)	Tooface (')	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor	
0.00	0.00	0.00	8.00	0.00	0.00	-90.33	-1.71	-299.90	300.01				
100.00	100.00	93.14	101.14	0.08	0.10	-90.25	-1.31	-299.73	299.73	299.55	0.19	1,613.066	
200.00	200.00	192.65	200.64	0.31	0.35	-90.10	-0.55	-299.41	299.42	288.75	0.66	451.031	
300.00	300.00	292.79	300.78	0.53	0.62	-89.90	0.50	-299.18	299.19	298.03	1.15	259.438	
385.36	385.36	377.39	385.36	0.73	0.84	-89.63	1.91	-299.06	299.06	297.50	1.57	180.946	
400.00	400.00	391.88	399.85	0.76	0.88	-89.59	2.15	-299.06	299.07	297.43	1.64	182.697	
500.00	500.00	491.94	499.90	0.98	1.14	-89.31	3.58	-299.10	299.12	297.00	2.12	140.886	
600.00	600.00	592.98	600.94	1.21	1.41	-89.05	4.94	-298.95	298.99	296.38	2.61	114.352	
686.44	686.44	678.49	686.44	1.40	1.63	-88.76	6.45	-298.77	298.84	295.80	3.03	98.463	
700.00	700.00	691.89	699.83	1.43	1.67	-88.71	6.72	-298.76	298.84	295.74	3.10	96.372	
800.00	800.00	792.16	800.08	1.66	1.93	-88.36	8.57	-298.75	298.88	295.29	3.59	83.235	
900.00	900.00	893.47	901.37	1.88	2.20	-88.02	10.34	-298.46	298.64	294.56	4.08	73.127	
957.53	957.53	949.63	957.53	2.01	2.35	-87.80	11.48	-298.27	298.49	294.13	4.36	68.484 CC	
1,000.00	1,000.00	990.90	998.79	2.11	2.46	-87.64	12.27	-298.32	298.57	294.01	4.56	65.437 ES	
1,100.00	1,100.00	1,089.17	1,097.04	2.33	2.70	-87.32	13.97	-298.95	299.29	294.26	5.03	59.493	
1,200.00	1,200.00	1,187.79	1,195.64	2.56	2.93	-87.05	15.46	-300.08	300.51	295.03	5.48	54.820	
1,300.00	1,300.00	1,287.39	1,295.22	2.78	3.14	-86.84	16.67	-301.55	302.05	296.13	5.92	51.045	
1,400.00	1,400.00	1,386.47	1,396.29	3.01	3.34	-86.70	17.48	-302.95	303.48	297.13	6.35	47.813	
1,500.00	1,500.00	1,487.10	1,494.91	3.23	3.55	-86.57	18.24	-304.29	304.87	298.10	6.78	44.974	
1,600.00	1,600.00	1,586.31	1,594.10	3.46	3.77	-86.38	19.35	-306.02	306.69	299.47	7.22	42.457	
1,700.00	1,700.00	1,686.51	1,694.27	3.68	4.00	-86.16	20.66	-307.86	308.60	300.92	7.68	40.178	
1,800.00	1,800.00	1,784.24	1,791.97	3.91	4.21	-86.00	21.68	-309.80	310.77	302.65	8.12	38.278	
1,900.00	1,900.00	1,885.71	1,893.42	4.13	4.42	-85.93	22.24	-312.36	313.22	304.66	8.55	36.621	
2,000.00	2,000.00	1,984.19	1,991.87	4.35	4.63	-85.87	22.72	-314.55	315.47	306.49	8.98	35.133	
2,100.00	2,100.00	2,087.36	2,095.01	4.58	4.84	-85.85	23.00	-316.81	317.68	308.26	9.42	33.732	
2,200.00	2,200.00	2,186.01	2,193.65	4.80	5.04	-85.85	23.11	-318.46	319.36	309.52	9.84	32.452	
2,300.00	2,300.00	2,287.65	2,295.27	5.03	5.25	-85.87	23.14	-320.30	321.17	310.89	10.28	31.247	
2,400.00	2,400.00	2,389.91	2,397.53	5.25	5.48	-85.82	23.47	-321.42	322.29	311.56	10.73	30.029	
2,500.00	2,500.00	2,489.49	2,497.10	5.48	5.69	-85.83	23.49	-322.21	323.08	311.91	11.17	28.926	
2,600.00	2,600.00	2,587.38	2,594.98	5.70	5.90	-85.88	23.40	-323.40	324.28	312.69	11.60	27.964	
2,700.00	2,700.00	2,686.97	2,694.56	5.93	6.09	-85.94	23.10	-325.07	325.93	313.92	12.02	27.118	
2,800.00	2,800.00	2,786.52	2,794.09	6.15	6.29	-86.03	22.67	-326.83	327.66	315.22	12.44	26.337	
2,900.00	2,900.00	2,887.06	2,894.62	6.38	6.50	-86.12	22.31	-328.60	329.40	316.53	12.87	25.590	
3,000.00	3,000.00	2,988.60	2,997.15	6.60	6.71	-86.18	22.02	-329.94	330.69	317.38	13.31	24.841	
3,100.00	3,100.00	3,088.69	3,096.23	6.83	6.93	-86.21	21.91	-330.88	331.63	317.87	13.76	24.106	
3,200.00	3,200.00	3,187.08	3,194.59	7.05	7.17	-86.22	21.96	-332.24	333.01	318.79	14.21	23.428	
3,300.00	3,300.00	3,287.18	3,294.70	7.28	7.40	-86.23	21.98	-333.88	334.65	319.97	14.67	22.805	
3,400.00	3,400.00	3,386.43	3,395.94	7.50	7.63	-86.29	21.74	-335.33	336.06	320.93	15.13	22.214	
3,500.00	3,500.00	3,486.10	3,495.60	7.73	7.86	-86.34	21.53	-336.57	337.29	321.71	15.58	21.648	
3,600.00	3,600.00	3,586.14	3,595.63	7.95	8.10	-86.37	21.42	-337.89	338.59	322.55	16.04	21.107	
3,700.00	3,700.00	3,686.29	3,695.77	8.18	8.34	-86.38	21.45	-339.16	339.86	323.35	16.51	20.582	
3,800.00	3,800.00	3,786.18	3,795.65	8.40	8.59	-86.39	21.49	-340.41	341.12	324.13	16.98	20.085	
3,900.00	3,900.00	3,887.97	3,895.44	8.63	8.83	-86.41	21.43	-341.72	342.42	324.97	17.45	19.621	
4,000.00	4,000.00	3,988.19	3,995.65	8.85	9.08	-86.42	21.46	-343.03	343.72	325.80	17.93	19.174	
4,100.00	4,100.00	4,087.69	4,095.14	9.07	9.34	-86.41	21.60	-344.34	345.05	326.64	18.40	18.749	
4,200.00	4,200.00	4,187.05	4,194.48	9.30	9.59	-86.39	21.79	-345.82	346.55	327.66	18.88	18.352	
4,300.00	4,300.00	4,286.05	4,293.47	9.52	9.84	-86.38	21.96	-347.52	348.27	328.92	19.36	17.990	
4,400.00	4,400.00	4,386.39	4,393.80	9.75	10.07	-86.41	21.94	-349.40	350.14	330.32	19.82	17.665	
4,500.00	4,500.00	4,486.93	4,494.24	9.97	10.16	-86.96	18.63	-351.23	351.77	331.60	20.17	17.444	
4,600.00	4,600.00	4,587.53	4,592.84	10.20	10.18	-90.06	-0.35	-353.42	353.49	333.08	20.41	17.318	
4,700.00	4,700.00	4,674.00	4,673.10	10.42	10.23	-95.18	-32.19	-355.39	357.85	337.15	20.70	17.287 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 11H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	11H	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 Draft1	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-ISCWSA, 9564-Project												Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis:		Distance:		Minimum		Separation		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
4,800.00	4,800.00	4,756.98	4,743.81	10.65	10.33	-101.92	-75.39	-357.25	369.41	348.34	21.07	17.529	
4,900.00	4,900.00	4,826.17	4,797.01	10.87	10.51	-108.54	-119.54	-356.33	389.70	368.19	21.51	18.117	
5,000.00	5,000.00	4,872.98	4,829.67	11.10	10.68	-113.27	-153.02	-355.83	423.14	401.21	21.92	19.300	
5,100.00	5,100.00	4,812.06	4,854.32	11.32	10.86	-117.27	-183.35	-355.72	469.59	447.26	22.33	21.031	
5,200.00	5,200.00	4,842.54	4,871.56	11.55	11.03	-120.38	-208.48	-355.63	527.08	504.37	22.70	23.214	
5,300.00	5,300.00	4,967.00	4,883.95	11.77	11.19	-122.85	-229.56	-355.55	593.47	570.42	23.06	25.741	
5,400.00	5,400.00	4,989.00	4,893.99	12.00	11.34	-125.03	-249.13	-355.42	666.66	643.26	23.39	28.497	
5,500.00	5,500.00	5,010.21	4,902.81	12.22	11.50	-127.08	-268.42	-355.11	744.83	721.10	23.73	31.386	
5,600.00	5,600.00	5,032.04	4,911.18	12.45	11.68	-129.15	-288.57	-354.47	826.68	802.61	24.07	34.346	
5,700.00	5,700.00	5,051.00	4,918.00	12.67	11.84	-130.88	-306.24	-353.66	911.25	886.87	24.39	37.364	
5,800.00	5,800.00	5,067.52	4,923.57	12.90	11.99	-132.36	-321.77	-352.82	998.07	973.37	24.70	40.408	
5,900.00	5,900.00	5,083.00	4,928.43	13.12	12.13	-133.71	-336.44	-351.97	1,086.75	1,061.75	25.00	43.470	
6,000.00	6,000.00	5,083.00	4,928.43	13.35	12.13	-133.71	-336.44	-351.97	1,177.00	1,151.78	25.22	46.661	
6,100.00	6,100.00	5,097.15	4,932.50	13.57	12.27	-134.90	-346.97	-351.20	1,268.41	1,242.89	25.52	49.700	
6,200.00	6,200.00	5,115.00	4,937.02	13.80	12.44	-136.35	-367.22	-350.33	1,361.14	1,335.31	25.83	52.697	
6,216.00	6,216.00	5,115.00	4,937.02	13.83	12.44	-136.35	-367.22	-350.33	1,376.00	1,350.13	25.87	53.198	
6,250.00	6,249.98	5,115.00	4,937.02	13.90	12.44	38.23	-367.22	-350.33	1,407.35	1,382.15	25.19	55.862	
6,300.00	6,299.64	5,115.00	4,937.02	13.98	12.44	31.69	-367.22	-350.33	1,452.39	1,427.47	24.92	58.285	
6,350.00	6,348.53	5,115.00	4,937.02	14.07	12.44	26.93	-367.22	-350.33	1,495.80	1,471.17	24.74	60.475	
6,400.00	6,398.20	5,115.00	4,937.02	14.16	12.44	23.39	-367.22	-350.33	1,537.65	1,513.16	24.49	62.776	
6,450.00	6,442.21	5,128.11	4,939.89	14.25	12.58	20.45	-380.00	-349.78	1,577.14	1,553.03	24.11	65.418	
6,500.00	6,486.14	5,147.00	4,943.38	14.33	12.78	18.16	-398.55	-349.22	1,614.56	1,590.99	23.57	68.508	
6,550.00	6,527.58	5,147.00	4,943.38	14.44	12.78	16.60	-398.55	-349.22	1,649.02	1,626.18	22.84	72.209	
6,600.00	6,596.15	5,147.00	4,943.38	14.57	12.78	15.34	-398.55	-349.22	1,680.89	1,658.93	21.96	76.544	
6,650.00	6,601.50	5,162.42	4,945.73	14.74	12.95	14.24	-413.79	-348.87	1,709.78	1,688.78	21.00	81.436	
6,700.00	6,633.30	5,179.00	4,947.86	14.94	13.13	13.36	-430.23	-348.54	1,735.56	1,715.61	19.95	86.986	
6,750.00	6,661.25	5,179.00	4,947.86	15.18	13.13	12.74	-430.23	-348.54	1,758.07	1,739.26	18.81	93.484	
6,800.00	6,685.11	5,179.00	4,947.86	15.46	13.13	12.24	-430.23	-348.54	1,777.50	1,759.85	17.65	100.709	
6,850.00	6,704.65	5,210.84	4,950.74	15.78	13.51	11.77	-461.83	-347.88	1,792.70	1,776.02	16.68	107.458	
6,900.00	6,719.88	5,237.00	4,951.87	16.15	13.82	11.44	-488.05	-347.24	1,804.94	1,789.08	15.85	113.844	
6,950.00	6,730.08	5,237.00	4,951.87	16.56	13.82	11.26	-488.05	-347.24	1,813.16	1,798.03	15.14	119.781	
7,000.00	6,735.75	5,271.68	4,952.53	17.00	14.25	11.13	-522.71	-346.44	1,817.63	1,802.70	14.93	121.725	
7,030.62	6,736.86	5,294.29	4,952.86	17.29	14.54	11.11	-545.32	-346.02	1,818.23	1,803.22	15.01	121.168	
7,100.00	6,737.33	5,364.17	4,953.53	17.99	15.41	11.10	-615.19	-345.16	1,817.98	1,802.26	15.72	115.693	
7,200.00	6,738.02	5,499.58	4,957.19	19.10	17.06	11.11	-750.54	-343.87	1,815.86	1,798.81	17.05	106.532	
7,300.00	6,738.70	5,616.50	4,961.66	20.32	18.57	11.11	-867.37	-342.56	1,812.71	1,794.36	18.35	98.784	
7,400.00	6,739.38	5,711.00	4,965.64	21.62	19.92	11.11	-961.77	-341.00	1,809.09	1,789.52	19.57	92.437	
7,500.00	6,740.07	5,780.29	4,967.96	23.00	20.97	11.12	-1,031.02	-340.41	1,806.50	1,785.83	20.67	87.407	
7,600.00	6,740.75	5,871.78	4,969.91	24.44	22.35	11.17	-1,122.48	-341.23	1,805.38	1,783.41	21.97	82.170	
7,700.00	6,741.43	5,975.45	4,972.26	25.92	23.93	11.23	-1,226.13	-341.82	1,804.08	1,780.68	23.39	77.116	
7,800.00	6,742.12	6,063.42	4,974.05	27.45	25.31	11.26	-1,314.08	-342.05	1,802.97	1,778.24	24.73	72.917	
7,874.19	6,742.63	6,124.98	4,975.01	28.61	26.28	11.32	-1,375.62	-343.12	1,802.70	1,776.98	25.71	70.110	
7,900.00	6,742.80	6,146.07	4,975.28	29.02	26.62	11.34	-1,396.70	-343.75	1,802.73	1,776.67	26.06	69.185	
8,000.00	6,743.49	6,259.45	4,976.90	30.61	28.40	11.52	-1,509.96	-348.58	1,803.05	1,775.37	27.68	65.146	
8,100.00	6,744.17	6,390.85	4,980.78	32.23	30.49	11.69	-1,641.24	-352.27	1,801.49	1,772.04	29.45	61.169	
8,200.00	6,744.85	6,484.63	4,983.77	33.87	32.02	11.78	-1,734.96	-353.84	1,799.53	1,768.60	30.93	58.183	
8,300.00	6,745.54	6,590.20	4,987.23	35.53	33.76	11.86	-1,840.46	-355.04	1,797.37	1,764.86	32.51	55.289	
8,400.00	6,746.22	6,677.56	4,989.82	37.21	35.22	11.92	-1,927.78	-356.09	1,795.55	1,761.59	33.96	52.878	
8,500.00	6,746.90	6,771.14	4,992.01	38.90	36.79	12.01	-2,021.32	-357.72	1,794.43	1,758.96	35.47	50.588	
8,600.00	6,747.59	6,877.98	4,995.20	40.60	38.57	12.10	-2,128.10	-359.21	1,792.60	1,755.50	37.10	48.318	

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

Leam Drilling Systems LLC

Anticollision Report

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Reference Design:	Plan #1 Draft1	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-ISCWSA, 8564-Project													Offset Well Error:	0.00 usft
Reference	Vertical	Offset	Vertical	Semi Major Axis		Highside Tooface (")	Distance		Minimum Separation (usft)	Separation Factor	Warning			
Measured Depth (usft)	Depth (usft)	Measured Depth (usft)	Depth (usft)	Reference	Offset		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)						
8,683.69	6,748.16	8,942.00	4,996.22	42.04	39.64	12.13	-2,192.11	-359.74	1,792.06	1,753.81	38.25	46.849		
8,700.00	6,748.27	8,944.64	4,996.24	42.32	39.68	12.13	-2,194.75	-359.76	1,792.07	1,753.67	38.40	46.871		
8,800.00	6,748.95	7,040.85	4,996.70	44.04	41.30	12.17	-2,290.96	-360.30	1,792.55	1,752.62	39.93	44.891		
8,900.00	6,749.64	7,136.62	4,996.92	45.77	42.91	12.20	-2,386.73	-360.70	1,793.24	1,751.78	41.46	43.248		
9,000.00	6,750.32	7,227.51	4,996.85	47.51	44.45	12.25	-2,477.61	-361.49	1,794.33	1,751.36	42.97	41.756		
9,100.00	6,751.01	7,335.87	4,996.89	49.26	46.26	12.31	-2,585.96	-362.78	1,795.37	1,750.74	44.63	40.228		
9,200.00	6,751.69	7,434.84	4,997.06	51.01	47.91	12.37	-2,684.93	-364.09	1,796.32	1,750.10	46.22	38.863		
9,300.00	6,752.37	7,543.35	4,997.41	52.77	49.74	12.42	-2,793.43	-364.91	1,797.00	1,749.11	47.89	37.526		
9,400.00	6,753.06	7,638.04	4,997.95	54.53	51.33	12.45	-2,888.12	-365.37	1,797.40	1,747.96	49.44	36.357		
9,500.00	6,753.74	7,720.15	4,997.63	56.30	52.71	12.48	-2,970.23	-365.83	1,798.71	1,747.83	50.89	35.346		
9,600.00	6,754.42	7,815.19	4,996.93	58.07	54.33	12.54	-3,065.26	-367.41	1,800.62	1,748.15	52.47	34.316		
9,700.00	6,755.11	7,915.64	4,996.20	59.85	56.01	12.62	-3,165.68	-369.53	1,802.63	1,748.51	54.11	33.311		
9,800.00	6,755.79	8,019.44	4,995.56	61.62	57.75	12.71	-3,269.45	-371.91	1,804.57	1,748.78	55.80	32.343		
9,830.58	6,756.00	8,053.19	4,995.42	62.17	58.32	12.74	-3,303.19	-372.61	1,805.09	1,748.77	56.33	32.047		
9,865.93	6,756.05	8,092.93	4,995.31	62.80	58.99	12.77	-3,342.93	-373.33	1,805.45	1,748.51	56.95	31.704		
9,900.00	6,755.91	8,132.80	4,995.28	63.40	59.66	12.80	-3,382.79	-373.86	1,805.54	1,747.98	57.56	31.367		
10,000.00	6,755.49	8,241.67	4,995.53	65.19	61.52	12.87	-3,491.66	-374.39	1,805.31	1,746.03	59.28	30.455		
10,100.00	6,755.07	8,340.34	4,995.85	66.98	63.21	12.92	-3,590.33	-374.52	1,804.91	1,744.01	60.91	29.835		
10,200.00	6,754.66	8,441.62	4,996.14	68.77	64.95	12.97	-3,691.61	-374.80	1,804.59	1,742.03	62.56	28.845		
10,248.69	6,754.46	8,483.29	4,996.26	69.64	65.66	13.00	-3,733.28	-374.97	1,804.45	1,741.14	63.31	28.503		
10,300.00	6,754.24	8,521.58	4,996.22	70.56	66.32	13.03	-3,771.56	-375.57	1,804.64	1,740.58	64.06	28.172		
10,400.00	6,753.83	8,611.17	4,995.63	72.36	67.85	13.15	-3,861.11	-378.30	1,805.84	1,740.15	65.69	27.490		
10,500.00	6,753.41	8,713.72	4,994.91	74.16	69.60	13.28	-3,963.61	-381.19	1,807.07	1,739.63	67.44	26.794		
10,600.00	6,753.00	8,804.09	4,994.23	75.98	71.14	13.40	-4,053.94	-383.90	1,808.41	1,739.31	69.10	26.172		
10,700.00	6,752.58	8,889.95	4,993.13	77.76	72.61	13.54	-4,139.72	-387.41	1,810.51	1,739.77	70.74	25.593		
10,800.00	6,752.16	9,008.73	4,991.49	79.56	74.65	13.75	-4,258.36	-392.92	1,812.93	1,740.19	72.74	24.924		
10,900.00	6,751.75	9,124.00	4,991.29	81.36	76.62	13.92	-4,373.56	-396.98	1,813.84	1,739.16	74.68	24.288		
11,000.00	6,751.33	9,219.00	4,991.18	83.17	78.26	14.05	-4,468.51	-399.90	1,814.62	1,738.20	76.42	23.746		
11,100.00	6,750.92	9,315.11	4,990.82	84.98	79.90	14.18	-4,564.58	-402.87	1,815.65	1,737.48	78.17	23.226		
11,200.00	6,750.50	9,413.88	4,990.27	86.78	81.58	14.31	-4,663.30	-405.63	1,816.80	1,736.88	79.95	22.725		
11,300.00	6,750.09	9,506.73	4,989.51	88.59	83.00	14.42	-4,756.11	-408.22	1,818.22	1,736.62	81.59	22.284		
11,320.60	6,750.00	9,527.31	4,989.31	88.97	83.00	14.45	-4,776.69	-408.81	1,818.54	1,736.75	81.80	22.232		

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

Leam Drilling Systems LLC

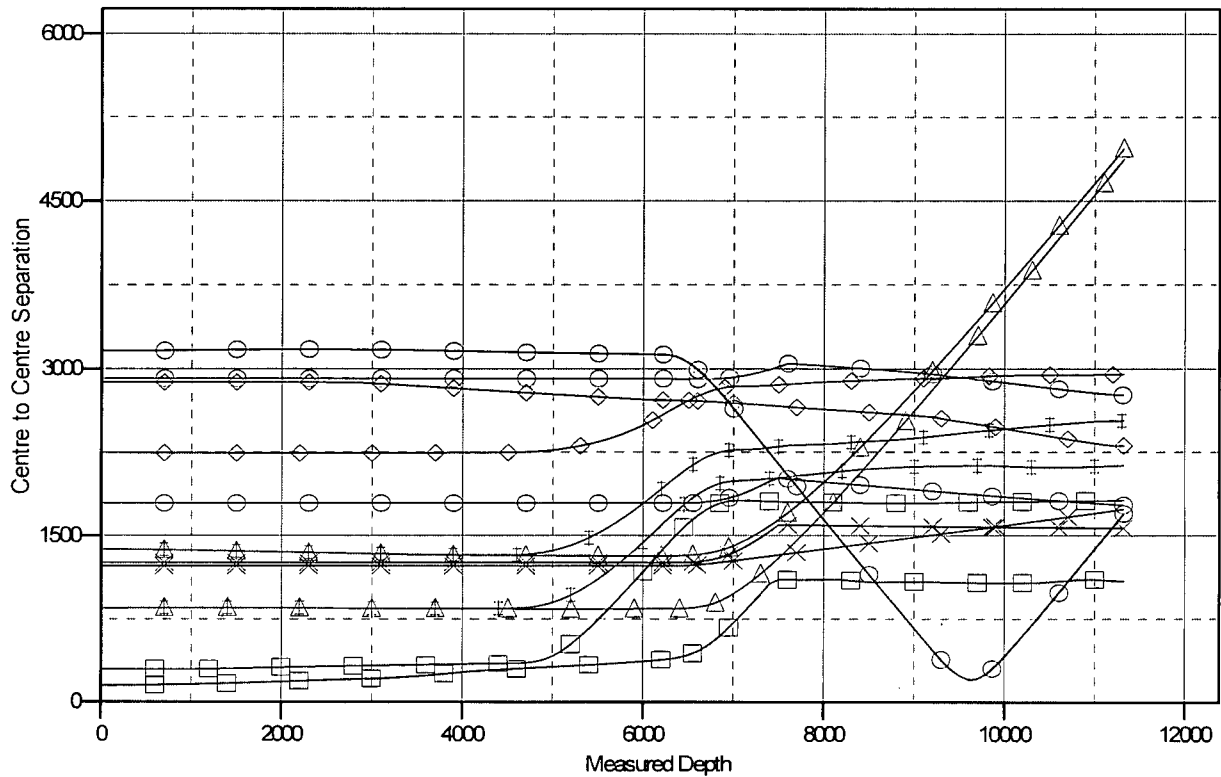
Anticollision Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 11H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	11H	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 Draft1	Offset TVD Reference:	Reference Datum

Reference Depths are relative to GE 3187' + KB 25' @ 3212.00usft (Or
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: 11H
Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Grid Convergence at Surface is: 0.10°

Ladder Plot



LEGEND

10H, OH, Plan #1 Draft1 V0	4H, Pilot, Pilot V0	9H, OH, Plan #1 Draft1 V0
13H, OH, Plan #1 Draft2 V0	5H, OH, OH V0	Lone Tree #1, OH, OH V0
2H, OH, OH V0	6H, OH, Plan #1 Draft1 V0	Lone Tree Draw 13 State #3H, OH, OH V0
2H, Pilot, Pilot V0	7H, OH, OH V0	
4H, OH, OH V0	8H, OH, Plan #1 V0	

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

Leam Drilling Systems LLC

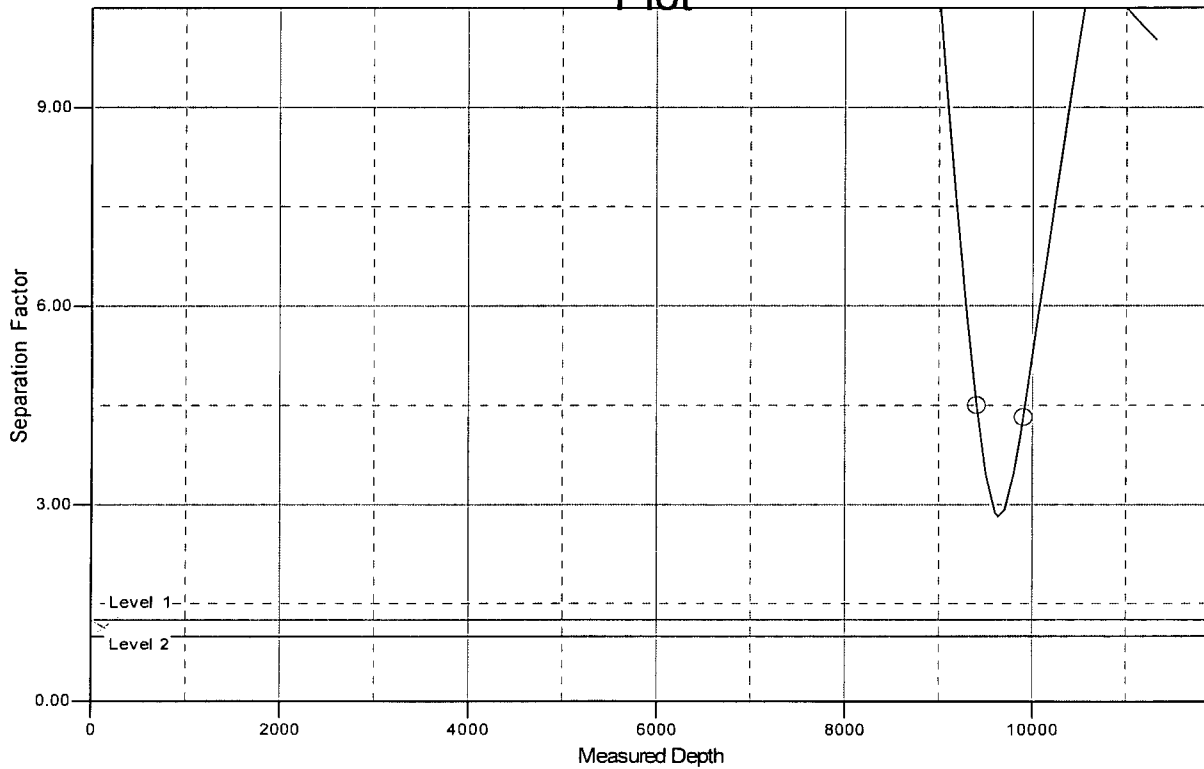
Anticollision Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 11H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3187' + KB 25' @ 3212.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	11H	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 Draft1	Offset TVD Reference:	Reference Datum

Reference Depths are relative to GE 3187' + KB 25' @ 3212.00usft (Or
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: 11H
Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Grid Convergence at Surface is: 0.10°

Separation Factor Plot



LEGEND

10H, OH, Plan #1 Draft1 V0	4H, Pilot, Pilot V0	9H, OH, Plan #1 Draft1 V0
13H, OH, Plan #1 Draft2 V0	5H, OH, OH V0	Lone Tree #1, OH, OH V0
2H, OH, OH V0	6H, OH, Plan #1 Draft1 V0	Lone Tree Draw 13 State #3H, OH, OH V0
2H, Pilot, Pilot V0	7H, OH, OH V0	
4H, OH, OH V0	8H, OH, Plan #1 V0	

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          ##      ##
          #       #
#### ##  #####  #####  #####  #
#   ##  #   ##  #   ##  #   ##  #
#   #   #   #   #   #   #   #   #
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#### #   #####  #####  #####  #####
#
####
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Job : 65
Date: 2/19/2014
Time: 10:46:30 AM

MD	INC	AZI	TVD	NS	EW	DLS	BUILD	TURN	VSECT
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1000.00	0.00	0.00	1000.00	0.00	0.00	0.00	0.00	0.00	0.00
1100.00	0.00	0.00	1100.00	0.00	0.00	0.00	0.00	0.00	0.00
1200.00	0.00	0.00	1200.00	0.00	0.00	0.00	0.00	0.00	0.00
1300.00	0.00	0.00	1300.00	0.00	0.00	0.00	0.00	0.00	0.00
1400.00	0.00	0.00	1400.00	0.00	0.00	0.00	0.00	0.00	0.00
1500.00	0.00	0.00	1500.00	0.00	0.00	0.00	0.00	0.00	0.00
1600.00	0.00	0.00	1600.00	0.00	0.00	0.00	0.00	0.00	0.00
1700.00	0.00	0.00	1700.00	0.00	0.00	0.00	0.00	0.00	0.00
1800.00	0.00	0.00	1800.00	0.00	0.00	0.00	0.00	0.00	0.00
1900.00	0.00	0.00	1900.00	0.00	0.00	0.00	0.00	0.00	0.00
2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	0.00	0.00
2100.00	0.00	0.00	2100.00	0.00	0.00	0.00	0.00	0.00	0.00
2200.00	0.00	0.00	2200.00	0.00	0.00	0.00	0.00	0.00	0.00
2300.00	0.00	0.00	2300.00	0.00	0.00	0.00	0.00	0.00	0.00
2400.00	0.00	0.00	2400.00	0.00	0.00	0.00	0.00	0.00	0.00
2500.00	0.00	0.00	2500.00	0.00	0.00	0.00	0.00	0.00	0.00
2600.00	0.00	0.00	2600.00	0.00	0.00	0.00	0.00	0.00	0.00
2700.00	0.00	0.00	2700.00	0.00	0.00	0.00	0.00	0.00	0.00
2800.00	0.00	0.00	2800.00	0.00	0.00	0.00	0.00	0.00	0.00
2900.00	0.00	0.00	2900.00	0.00	0.00	0.00	0.00	0.00	0.00
3000.00	0.00	0.00	3000.00	0.00	0.00	0.00	0.00	0.00	0.00
3100.00	0.00	0.00	3100.00	0.00	0.00	0.00	0.00	0.00	0.00
3200.00	0.00	0.00	3200.00	0.00	0.00	0.00	0.00	0.00	0.00
3300.00	0.00	0.00	3300.00	0.00	0.00	0.00	0.00	0.00	0.00
3400.00	0.00	0.00	3400.00	0.00	0.00	0.00	0.00	0.00	0.00
3500.00	0.00	0.00	3500.00	0.00	0.00	0.00	0.00	0.00	0.00
3600.00	0.00	0.00	3600.00	0.00	0.00	0.00	0.00	0.00	0.00
3700.00	0.00	0.00	3700.00	0.00	0.00	0.00	0.00	0.00	0.00
3800.00	0.00	0.00	3800.00	0.00	0.00	0.00	0.00	0.00	0.00
3900.00	0.00	0.00	3900.00	0.00	0.00	0.00	0.00	0.00	0.00
4000.00	0.00	0.00	4000.00	0.00	0.00	0.00	0.00	0.00	0.00
4100.00	0.00	0.00	4100.00	0.00	0.00	0.00	0.00	0.00	0.00
4200.00	0.00	0.00	4200.00	0.00	0.00	0.00	0.00	0.00	0.00
4300.00	0.00	0.00	4300.00	0.00	0.00	0.00	0.00	0.00	0.00
4400.00	0.00	0.00	4400.00	0.00	0.00	0.00	0.00	0.00	0.00
4500.00	0.00	0.00	4500.00	0.00	0.00	0.00	0.00	0.00	0.00

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
6216.00	0.00	0.00	6216.00	0.00	0.00	0.00	0.00	0.00	0.00
6250.00	3.74	179.56	6249.98	-1.11	0.01	11.00	11.00	0.00	1.11
6300.00	9.24	179.56	6299.64	-6.76	0.05	11.00	11.00	0.00	6.76
6350.00	14.74	179.56	6348.53	-17.14	0.13	11.00	11.00	0.00	17.14
6400.00	20.24	179.56	6396.20	-32.16	0.25	11.00	11.00	0.00	32.16
6450.00	25.74	179.56	6442.21	-51.68	0.40	11.00	11.00	0.00	51.68
6500.00	31.24	179.56	6486.14	-75.52	0.58	11.00	11.00	0.00	75.52
6550.00	36.74	179.56	6527.58	-103.46	0.80	11.00	11.00	0.00	103.47
6600.00	42.24	179.56	6566.15	-135.25	1.04	11.00	11.00	0.00	135.25
6650.00	47.74	179.56	6601.50	-170.58	1.31	11.00	11.00	0.00	170.59
6700.00	53.24	179.56	6633.30	-209.14	1.61	11.00	11.00	0.00	209.15
6750.00	58.74	179.56	6661.25	-250.57	1.93	11.00	11.00	0.00	250.58
6800.00	64.24	179.56	6685.11	-294.49	2.27	11.00	11.00	0.00	294.50
6850.00	69.74	179.56	6704.64	-340.49	2.62	11.00	11.00	0.00	340.50
6900.00	75.24	179.56	6719.68	-388.16	2.99	11.00	11.00	0.00	388.17
6950.00	80.74	179.56	6730.08	-437.04	3.36	11.00	11.00	0.00	437.05
7000.00	86.24	179.56	6735.75	-486.70	3.75	11.00	11.00	0.00	486.71
7030.62	89.61	179.56	6736.86	-517.29	3.98	11.00	11.00	0.00	517.31
7100.00	89.61	179.56	6737.33	-586.67	4.51	0.00	0.00	0.00	586.69
7200.00	89.61	179.56	6738.02	-686.66	5.28	0.00	0.00	0.00	686.68
7300.00	89.61	179.56	6738.70	-786.66	6.05	0.00	0.00	0.00	786.68
7400.00	89.61	179.56	6739.38	-886.65	6.82	0.00	0.00	0.00	886.68
7500.00	89.61	179.56	6740.07	-986.65	7.59	0.00	0.00	0.00	986.68
7600.00	89.61	179.56	6740.75	-1086.64	8.36	0.00	0.00	0.00	1086.67
7700.00	89.61	179.56	6741.43	-1186.64	9.13	0.00	0.00	0.00	1186.67
7800.00	89.61	179.56	6742.12	-1286.63	9.90	0.00	0.00	0.00	1286.67
7900.00	89.61	179.56	6742.80	-1386.63	10.67	0.00	0.00	0.00	1386.67
8000.00	89.61	179.56	6743.49	-1486.62	11.44	0.00	0.00	0.00	1486.66
8100.00	89.61	179.56	6744.17	-1586.62	12.21	0.00	0.00	0.00	1586.66
8200.00	89.61	179.56	6744.85	-1686.61	12.98	0.00	0.00	0.00	1686.66

8300.00	89.61	179.56	6745.54	-1786.61	13.75	0.00	0.00	0.00	1786.66
8400.00	89.61	179.56	6746.22	-1886.60	14.52	0.00	0.00	0.00	1886.65
8500.00	89.61	179.56	6746.90	-1986.60	15.29	0.00	0.00	0.00	1986.65
8600.00	89.61	179.56	6747.59	-2086.59	16.06	0.00	0.00	0.00	2086.65
8700.00	89.61	179.56	6748.27	-2186.59	16.83	0.00	0.00	0.00	2186.65
8800.00	89.61	179.56	6748.95	-2286.58	17.59	0.00	0.00	0.00	2286.64
8900.00	89.61	179.56	6749.64	-2386.57	18.36	0.00	0.00	0.00	2386.64
9000.00	89.61	179.56	6750.32	-2486.57	19.13	0.00	0.00	0.00	2486.64
9100.00	89.61	179.56	6751.01	-2586.56	19.90	0.00	0.00	0.00	2586.64
9200.00	89.61	179.56	6751.69	-2686.56	20.67	0.00	0.00	0.00	2686.63
9300.00	89.61	179.56	6752.37	-2786.55	21.44	0.00	0.00	0.00	2786.63
9400.00	89.61	179.56	6753.06	-2886.55	22.21	0.00	0.00	0.00	2886.63
9500.00	89.61	179.56	6753.74	-2986.54	22.98	0.00	0.00	0.00	2986.63
9600.00	89.61	179.56	6754.42	-3086.54	23.75	0.00	0.00	0.00	3086.62
9700.00	89.61	179.56	6755.11	-3186.53	24.52	0.00	0.00	0.00	3186.62
9800.00	89.61	179.56	6755.79	-3286.53	25.29	0.00	0.00	0.00	3286.62
9830.58	89.61	179.56	6756.00	-3317.11	25.52	0.00	0.00	0.00	3317.20
9865.93	90.24	179.24	6756.05	-3352.45	25.90	2.00	1.78	-0.91	3352.55
9900.00	90.24	179.24	6755.91	-3386.52	26.35	0.00	0.00	0.00	3386.62
10000.00	90.24	179.24	6755.49	-3486.51	27.68	0.00	0.00	0.00	3486.62
10100.00	90.24	179.24	6755.07	-3586.50	29.01	0.00	0.00	0.00	3586.61
10200.00	90.24	179.24	6754.66	-3686.49	30.34	0.00	0.00	0.00	3686.61
10300.00	90.24	179.24	6754.24	-3786.48	31.67	0.00	0.00	0.00	3786.61
10400.00	90.24	179.24	6753.83	-3886.47	33.00	0.00	0.00	0.00	3886.61
10500.00	90.24	179.24	6753.41	-3986.46	34.33	0.00	0.00	0.00	3986.61
10600.00	90.24	179.24	6753.00	-4086.45	35.65	0.00	0.00	0.00	4086.61
10700.00	90.24	179.24	6752.58	-4186.44	36.98	0.00	0.00	0.00	4186.60
10800.00	90.24	179.24	6752.16	-4286.43	38.31	0.00	0.00	0.00	4286.60
10900.00	90.24	179.24	6751.75	-4386.42	39.64	0.00	0.00	0.00	4386.60
11000.00	90.24	179.24	6751.33	-4486.41	40.97	0.00	0.00	0.00	4486.60
11100.00	90.24	179.24	6750.92	-4586.40	42.30	0.00	0.00	0.00	4586.60
11200.00	90.24	179.24	6750.50	-4686.39	43.63	0.00	0.00	0.00	4686.60
11300.00	90.24	179.24	6750.09	-4786.38	44.96	0.00	0.00	0.00	4786.60
11320.60	90.24	179.24	6750.00	-4806.98	45.23	0.00	0.00	0.00	4807.19