

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

N89°30'37"E 2683.56 FT

337'

NW CORNER SEC. 13
LAT. = 32.4875561°N
LONG. = 104.151461°W

NMSP EAST (FT)
N = 541151.32
E = 597296.69

SURFACE LOCATION

VA-834

W O CORNER SEC. 13
LAT. = 32.4802575°N
LONG. = 104.151272°W

NMSP EAST (FT)
N = 538496.13
E = 597307.02

BOTTOM OF HOLE
LAT. = 32.473002°N
LONG. = 104.151651°W

NMSP EAST (FT)
N = 536184.5
E = 597981.94

BOTTOM OF HOLE

SW CORNER SEC. 13
LAT. = 32.4729692°N
LONG. = 104.1517858°W

NMSP EAST (FT)
N = 535844.67
E = 597212.30

S89°08'22"W 2678.50 FT

N89°38'05"E 2685.30 FT

N O CORNER SEC. 13
LAT. = 32.4875870°N
LONG. = 104.1431449°W

NMSP EAST (FT)
N = 541167.23
E = 599979.56

NE CORNER SEC. 13
LAT. = 32.4876206°N
LONG. = 104.1344381°W

NMSP EAST (FT)
N = 541184.34
E = 602664.16

Project Area

Lease Line

Completion Interval

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.

SE CORNER SEC. 13
LAT. = 32.4731637°N
LONG. = 104.1344163°W

NMSP EAST (FT)
N = 535924.99
E = 602680.71

S89°08'32"W 2679.80 FT

S00°11'15"E 2631.57 FT

S00°11'15"E 2631.57 FT

S00°10'23"E 2629.07 FT

S00°10'23"E 2629.07 FT

17 OPERATOR CERTIFICATION

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

Linda Good 2/24/14
 Signature Date

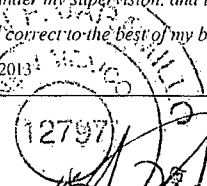
Linda Good
 Printed Name

Linda.good@dvn.com
 E-mail Address

18 SURVEYOR CERTIFICATION

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

SEPTEMBER 11, 2013

Date of Survey

Filimon F. Ramillo
 Signature and Seal of Professional Surveyor

Certificate Number: 4-FILIMON F. RAMILLO, PLS 12797

SURVEY NO. 2186A

DRILLING PROGRAM

Devon Energy Production Company, L.P.
Lone Tree Draw 13 State 6H

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

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

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

3. Pressure Control Equipment:

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

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

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

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

Auxiliary Well Control and Monitoring Equipment:

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

4. **Casing Program:**

Hole Size	Hole Interval	Casing OD	Casing Interval	Weight (lb/ft)	Collar	Grade	Collapse Design Factor	Burst Design Factor	Tension Design Factor
17-1/2"	0 - 300'	13-3/8"	0 - 300'	48	BTC	H-40	2.21	4.96	15.13
12-1/4"	300-2850'	9-5/8"	0-2850'	36	LTC	HCK-55	1.17	1.56	3.59
8-3/4"	2850-12370'	5-1/2"	0-12370'	17	BTC	P-110	2.35	2.91	6.38

Casing Notes:

- All casing is new and API approved

Maximum Lateral TVD: 7731'

5. **Proposed mud Circulations System:**

Depth	Mud Weight	Viscosity	Fluid Loss	Type System
0-300'	8.4-9.0	30-34	N/C	FW
300-2850'	9.8-10.0	28-32	N/C	Brine
2850-12370'	8.6-9.0	28-32	N/C	FW

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

6. Cementing Table:

13-3/8" Surface	350	14.8	6.32	1.33	Tail	Class C Cement + 63.5% Fresh Water
9-5/8" Intermediate Single Stage	520	12.9	9.81	1.85	Lead	(65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sack Poly-E-Flake + 70.9 % Fresh Water
	430	14.8	6.32	1.33	Tail	Class C Cement + 0.125 lbs/sack Poly-E-Flake + 63.5% Fresh Water
9-5/8" Intermediate 2-Stage Option	190	12.9	9.81	1.85	Lead	(65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sack Poly-E-Flake + 70.9 % Fresh Water
	220	14.8	6.32	1.33	Tail	Class C Cement + 0.125 lbs/sack Poly-E-Flake + 63.5% Fresh Water
	DV Tool @ 1750ft					
	550	13.7	8.66	1.67	Tail	Class C Cement + 0.4% BWOC LAP-1 + 0.2% BWOC HR-601 + 0.2 lb/sk D-Air 5000 + 4% BWOC Bentonite + 69.3% Fresh Water
5-1/2" Production Casing Single Stage	560	11.0	15.23	2.71	Lead	Tuned Light Blend + 0.125 lb/sk Pol-E-Flake + 76.3% Fresh Water
	1340	14.5	5.38	1.22	Tail	(50:50) Class H Cement: Poz (Fly Ash) + 1 lb/sk Sodium Chloride + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% bwoc HR-601 + 2% bwoc Bentonite + 58.8% Fresh Water
5-1/2" Production Casing 2-Stage Option	450	12.5	10.86	1.96	Lead	(65:35) Class H Cement: Poz (Fly Ash) + 6% BWOC Bentonite + 0.25% BWOC HR-601 + 0.125 lbs/sack Poly-E-Flake + 74.1 % Fresh Water
	1340	14.5	5.38	1.22	Tail	(50:50) Class H Cement: Poz (Fly Ash) + 1 lb/sk Sodium Chloride + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% bwoc HR-601 + 2% bwoc Bentonite + 58.8% Fresh Water
	DV Tool @ 4500ft					
	220	11.9	12.89	2.26	Lead	(50:50) Class H Cement: Poz (Fly Ash) + 10% BWOC Bentonite + 1 lb/sk of Kol-Seal + 0.3% BWOC HR-601 + 0.5lb/sk D-Air 5000 + 76.4% Fresh Water
	120	14.8	6.32	1.33	Tail	Class C Cement + 0.125 lbs/sack Poly-E-Flake + 63.5% Fresh Water

TOC for all Strings:

Surface @ 0'
 Intermediate @ 0'
 Production @ 2350'

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
- If lost circulation is encountered while drilling the production and/or the intermediate wellbores, a DV tool will be installed a minimum of 50' below the previous casing shoe and of 200' above the current shoe. If the DV tool has to be moved, the cement volumes will be adjusted proportionately.

7. Logging, Coring, and Testing Program:

- a. Drill stem tests will be based on geological sample shows.
- b. If a drill stem test is anticipated, a procedure, equipment to be used, and safety measures will be provided via sundry notice to the BLM.
- c. Resistivity and porosity logs are planned below the intermediate casing point. Stated logs run will be named in the Completion Report and submitted to the BLM.
- d. No coring program is planned
- e. Additional Testing will be initiated subsequent to setting the 5-1/2" production casing. Specific intervals will be targeted based on log evaluation, geological sample shows, and drill stem tests.

8. Potential Hazards:

- a. No abnormal pressures or temperatures are expected. There is no known presence of H₂S in this area, and none is anticipated to be encountered. If H₂S is encountered the operator will comply with the provisions of Onshore Oil and Gas Order No. 6. No lost circulation is expected to occur. All personnel will be familiar with all aspects of safe operation being used to drill this well. Estimated BHP: 3400 psi, and estimated BHT: 140 degrees.
- b. Hydrogen Sulfide detection equipment will be in operation after drilling out the 13-3/8" casing shoe until the 5-1/2" casing is cemented. Breathing equipment will be on location upon drilling the 13-3/8" shoe until total depth is reached.

9. Anticipated Starting Date and Duration of Operations:

- a. Road and location construction will begin after the BLM has approved the APD. Anticipated spud date will be as soon after BLM approval and as soon as a rig will be available. Move in operations and drilling is expected to take 32 days. If production casing is run then an additional 30 days will be needed to complete well and construct surface facilities and/or lay flow lines in order to place well on production.

NOTES REGARDING BLOWOUT PREVENTERS

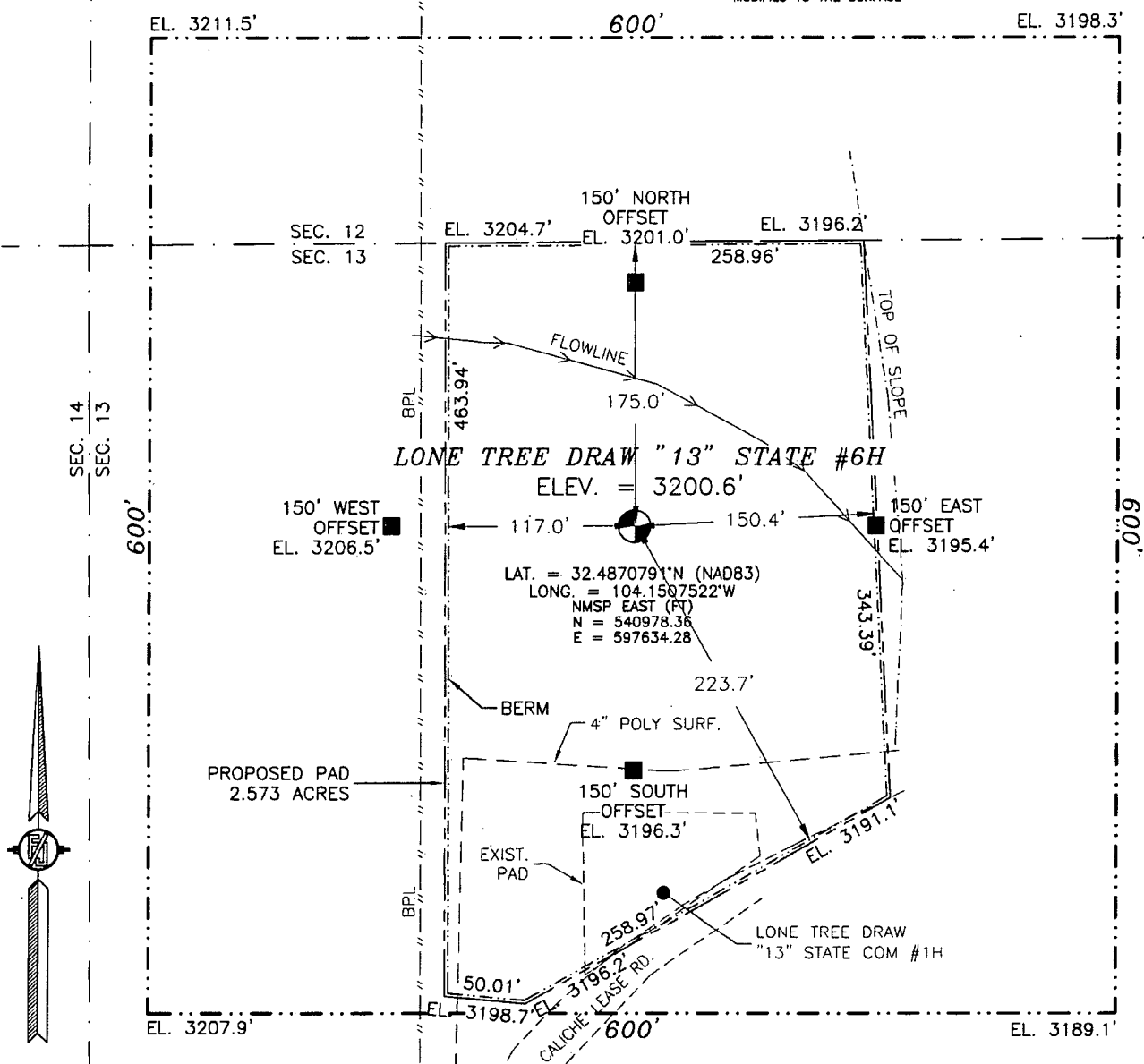
Devon Energy Production Company, L.P.
Lone Tree Draw 13 State 6H

1. Drilling Nipple will be constructed so it can be removed mechanically without the aid of a welder. The minimum internal diameter will equal BOP bore.
2. Wear ring will be properly installed in head.
3. Blowout preventer and all associated filings will be in operable condition to withstand a minimum of 5000psi working pressure.
4. All fittings will be flanged.
5. A fill bore safety valve tested to a minimum of 5000psi WP with proper thread connections will be available on the rotary rig floor at all times.
6. All choke lines will be anchored to prevent movement.
7. All BOP equipment will be equal to or larger in bore than the internal diameter of the last casing string.
8. Will maintain a kelly cock attached to the kelly.
9. Hand wheels and wrenches will be properly installed and tested for safe operation.
10. Hydraulic floor control for blowout preventer will be located as near in proximity to driller's controls as possible.
11. All BOP equipment will meet API standards and include a minimum 40 gallon accumulator having two independent means of power to initiate closing operation.

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 THE INTERSECTION OF CR 206 (ILLINOIS CAMP) AND SR 200 (GEORGE SHOUP RELIEF ROUTE) GO NORTH ON CR 206 1.3 MILES TO CR 600 (RAINS ROAD) ON THE RIGHT (EAST). GO DOWN CR 600 2.1 MILES (RAMBO BOOSTER), PAVEMENT ENDS, CONTINUE EAST AT 2.2 MILES, AT 2.3 MILES CALICHE ROAD TO THE RIGHT (EAST) ACROSS FROM A GRAVEL PIT, GO RIGHT ON CALICHE ROAD 2.75 MILES EAST OF CATTLE GUARD, ROAD BEND NORTH, SITE IS ABOUT 880'.

DEVON ENERGY PRODUCTION COMPANY, L.P.

LONE TREE DRAW "13" STATE #6H

LOCATED 175 FT. FROM THE NORTH LINE
AND 337 FT. FROM THE WEST LINE OF
SECTION 13, TOWNSHIP 21 SOUTH,
RANGE 27 EAST, N.M.P.M.

EDDY COUNTY, STATE OF NEW MEXICO

SEPTEMBER 11, 2013

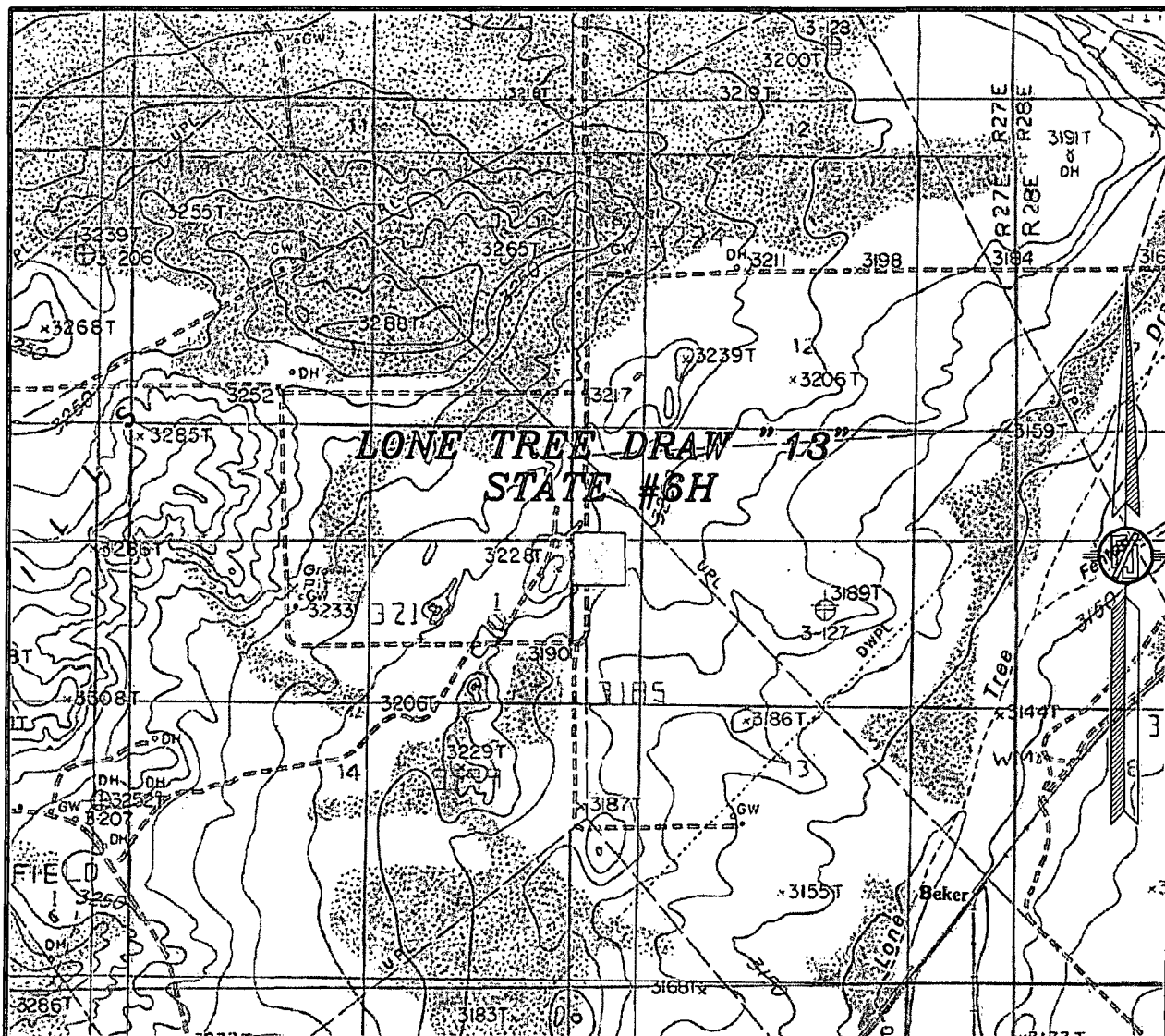
SURVEY NO. 2186A

MADRON SURVEYING, INC.

301 SOUTH CANAL
(575) 234-3341

CARLSBAD, NEW MEXICO

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



USGS QUAD MAP:
QUADNAME

NOT TO SCALE

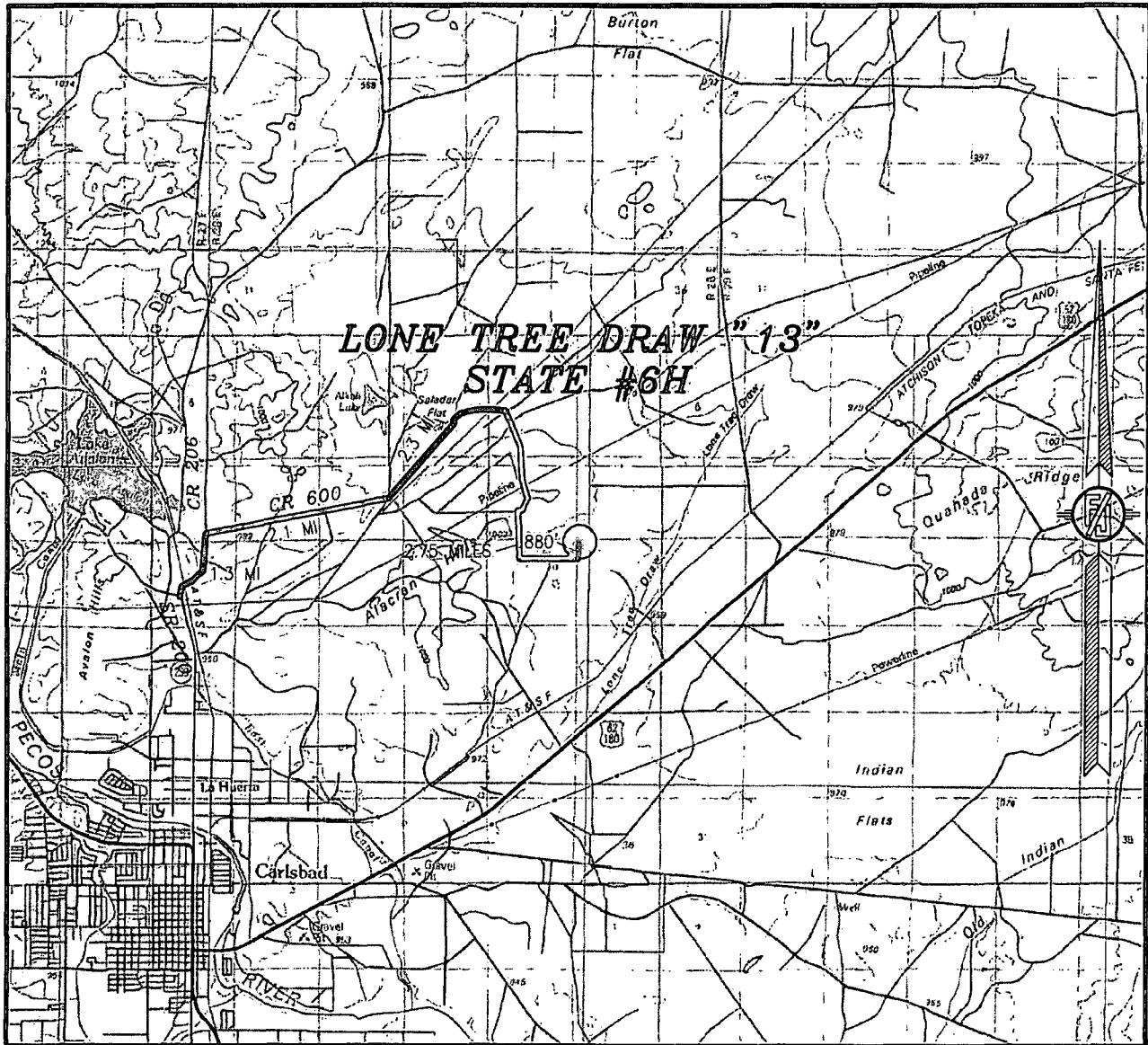
DEVON ENERGY PRODUCTION COMPANY, L.P.
LONE TREE DRAW "13" STATE #6H
LOCATED 175 FT. FROM THE NORTH LINE
AND 337 FT. FROM THE WEST LINE OF
SECTION 13, TOWNSHIP 21 SOUTH,
RANGE 27 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

SEPTEMBER 11, 2013

SURVEY NO. 2186A

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

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



NOT TO SCALE

DEVON ENERGY PRODUCTION COMPANY, L.P.

LONE TREE DRAW "13" STATE #6H

LOCATED 175 FT. FROM THE NORTH LINE
AND 337 FT. FROM THE WEST LINE OF
SECTION 13, TOWNSHIP 21 SOUTH,
RANGE 27 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

SEPTEMBER 11, 2013

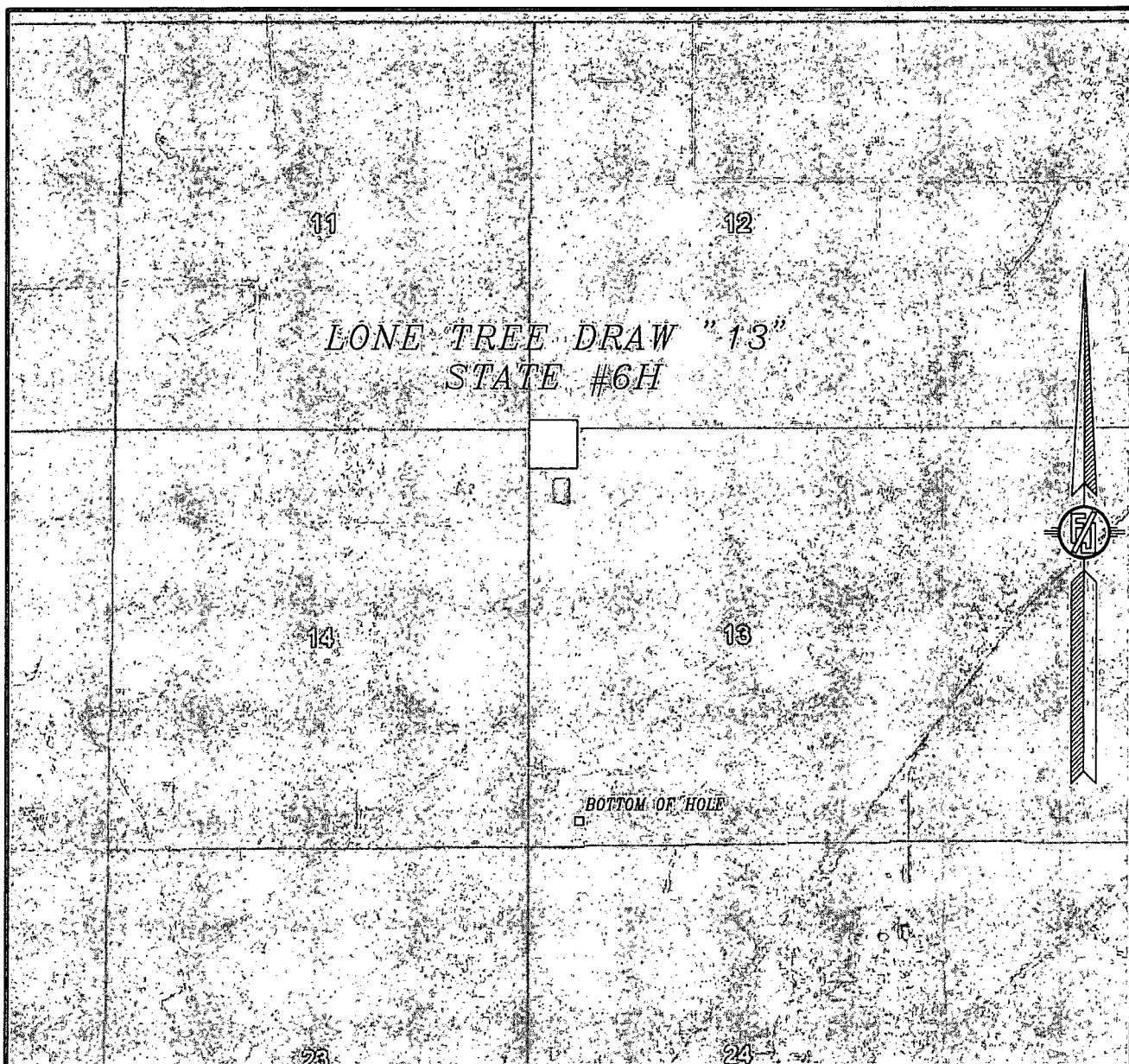
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MADRON SURVEYING, INC. 331 SOUTH CANAL (575) 234-3341

SURVEY NO. 2186A
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 #6H
LOCATED 175 FT. FROM THE NORTH LINE
AND 337 FT. FROM THE WEST LINE OF
SECTION 13, TOWNSHIP 21 SOUTH,
RANGE 27 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

SEPTEMBER 11, 2013

SURVEY NO. 2186A

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

DEVON ENERGY

Project: Eddy County, NM (NAD-83)
Site: Lone Tree Draw "13" State
Well: 6H
Wellbore: OH
Design: Plan #1 Draft 1



Azimuths to Grid North
True North: -0.10°
Magnetic North: 7.58°

Magnetic Field
Strength: 48430.0snT
Dip Angle: 60.25°
Date: 01/14/2014
Model: BGGM2013

devon

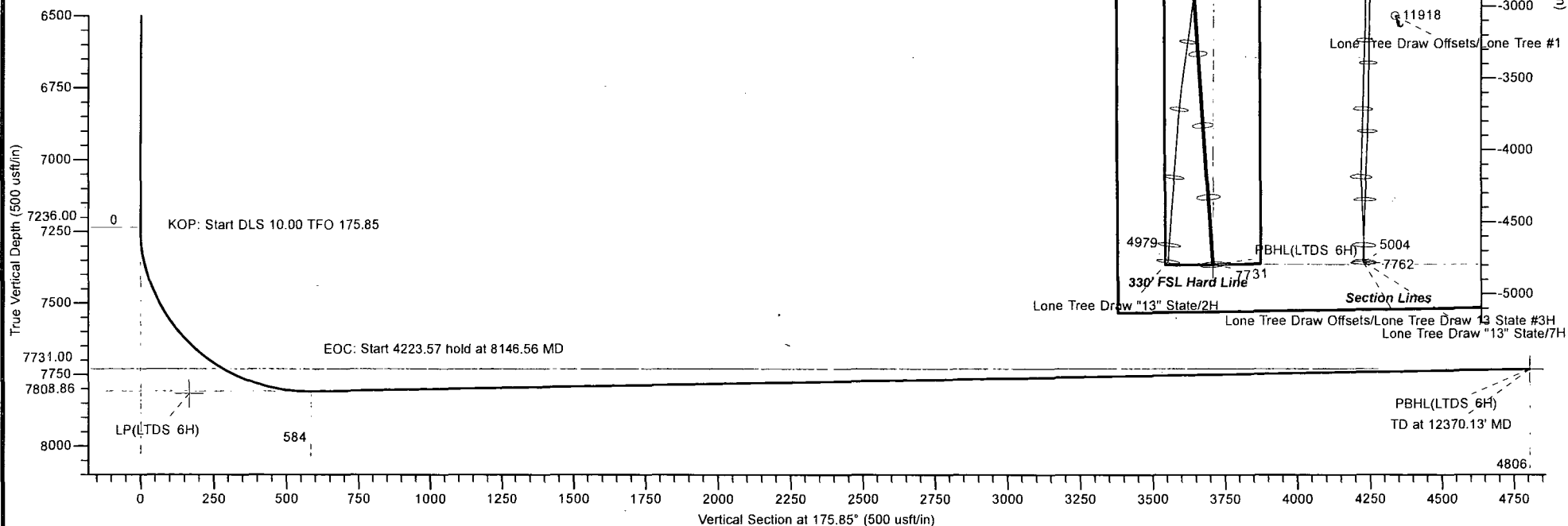
PROJECT DETAILS: Eddy County, NM (NAD-83)
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
SHL(LTDS 6H)	0.00	0.00	0.00	540978.36	597634.28	32° 29' 13.485 N	104° 9' 2.708 W
PBHL(LTDS 6H)	7731.00	-4793.77	347.82	536184.59	597982.10	32° 28' 26.042 N	104° 8' 58.743 W
LP(LTDS 6H)	7817.00	-165.02	3.73	540813.34	597638.01	32° 29' 11.852 N	104° 9' 2.668 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	7236.00	0.00	0.00	7236.00	0.00	0.00	0.00	0.00	0.00	KOP: Start DLS 10.00 TFO 175.85
3	8146.56	91.06	175.85	7808.86	-581.99	42.23	10.00	175.85	583.52	EOC: Start 4223.57 hold at 8146.56 MD
4	12370.13	91.06	175.85	7731.00	-4793.77	347.82	0.00	0.00	4806.37	TD at 12370.13' MD



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

Plan: Plan #1 Draft 1 (6H/OH)
Lone Tree Draw "13" State
Created By: Heber Claros Date: 15/41, January 14 2014
Date: _____
Approved: _____ Date: _____

DEVON ENERGY

Eddy County, NM (NAD-83)

Lone Tree Draw "13" State

6H

OH

Plan: Plan #1 Draft 1

Standard Survey Report

14 January, 2014

Leam Drilling Systems LLC

Survey Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 6H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3201' + KB 26' @ 3227.00usft (Original Well Elev)
Site:	Lone Tree Draw "13" State	MD Reference:	GE 3201' + KB 26' @ 3227.00usft (Original Well Elev)
Well:	6H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1 Draft 1	Database:	EDM 5000.1 Single User Db

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	6H		
Well Position	+N/-S	0.00 usft	Northing: 540,978.36 usft
	+E/-W	0.00 usft	Easting: 597,634.28 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft
		Latitude:	32° 29' 13.485 N
		Longitude:	104° 9' 2.708 W
		Ground Level:	3,201.00 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
	BGGM2013	01/14/14	(°)
			7.67
			Dip Angle (°)
			60.25
			Field Strength (nT)
			48,430

Design	Plan #1 Draft 1		
Audit Notes:			
Version:	Phase:	PROTOTYPE	Tie On Depth: 0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	7,731.00	0.00	0.00
			Direction (°)
			175.85

Survey Tool Program	Date	01/14/14		
From	To	Survey (Wellbore)	Tool Name	Description
(usft)	(usft)			
0.00	12,370.13	Plan #1 Draft 1 (OH)	LEAM MWD-ADJ	MWD - Standard

Planned Survey										
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate	
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)	
7,236.00	0.00	0.00	7,236.00	0.00	0.00	0.00	0.00	0.00	0.00	
KOP: Start DLS 10.00 TFO 175.85										
7,250.00	1.40	175.85	7,250.00	-0.17	0.01	0.17	10.00	10.00	0.00	
7,300.00	6.40	175.85	7,299.87	-3.56	0.26	3.57	10.00	10.00	0.00	
7,350.00	11.40	175.85	7,349.25	-11.27	0.82	11.30	10.00	10.00	0.00	
7,400.00	16.40	175.85	7,397.77	-23.25	1.69	23.31	10.00	10.00	0.00	
7,450.00	21.40	175.85	7,445.06	-39.40	2.86	39.50	10.00	10.00	0.00	
7,500.00	26.40	175.85	7,490.76	-59.60	4.32	59.75	10.00	10.00	0.00	

Leam Drilling Systems LLC

Survey Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 6H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3201' + KB 26' @ 3227.00usft (Original Well Elev)
Site:	Lone Tree Draw "13" State	MD Reference:	GE 3201' + KB 26' @ 3227.00usft (Original Well Elev)
Well:	6H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1 Draft 1	Database:	EDM 5000.1 Single User Db

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,550.00	31.40	175.85	7,534.52	-83.69	6.07	83.91	10.00	10.00	0.00
7,600.00	36.40	175.85	7,576.00	-111.49	8.09	111.79	10.00	10.00	0.00
7,650.00	41.40	175.85	7,614.90	-142.80	10.36	143.18	10.00	10.00	0.00
7,700.00	46.40	175.85	7,650.92	-177.37	12.87	177.83	10.00	10.00	0.00
7,750.00	51.40	175.85	7,683.78	-214.94	15.59	215.50	10.00	10.00	0.00
7,787.59	55.16	175.85	7,706.25	-244.98	17.77	245.62	10.00	10.00	0.00
LP(LTDS 6H)									
7,800.00	56.40	175.85	7,713.23	-255.22	18.52	255.89	10.00	10.00	0.00
7,850.00	61.40	175.85	7,739.05	-297.90	21.61	298.69	10.00	10.00	0.00
7,900.00	66.40	175.85	7,761.04	-342.67	24.86	343.57	10.00	10.00	0.00
7,950.00	71.40	175.85	7,779.03	-389.18	28.24	390.21	10.00	10.00	0.00
8,000.00	76.40	175.85	7,792.89	-437.08	31.71	438.23	10.00	10.00	0.00
8,050.00	81.40	175.85	7,802.52	-486.00	35.26	487.28	10.00	10.00	0.00
8,100.00	86.40	175.85	7,807.83	-535.57	38.86	536.98	10.00	10.00	0.00
8,146.56	91.06	175.85	7,808.86	-581.99	42.23	583.52	10.00	10.00	0.00
EOC: Start 4223.57 hold at 8146.56 MD									
8,200.00	91.06	175.85	7,807.88	-635.28	46.09	636.95	0.00	0.00	0.00
8,300.00	91.06	175.85	7,806.03	-735.00	53.33	736.93	0.00	0.00	0.00
8,400.00	91.06	175.85	7,804.19	-834.72	60.56	836.91	0.00	0.00	0.00
8,500.00	91.06	175.85	7,802.35	-934.44	67.80	936.90	0.00	0.00	0.00
8,600.00	91.06	175.85	7,800.50	-1,034.16	75.04	1,036.88	0.00	0.00	0.00
8,700.00	91.06	175.85	7,798.66	-1,133.88	82.27	1,136.86	0.00	0.00	0.00
8,800.00	91.06	175.85	7,796.81	-1,233.60	89.51	1,236.85	0.00	0.00	0.00
8,900.00	91.06	175.85	7,794.97	-1,333.32	96.74	1,336.83	0.00	0.00	0.00
9,000.00	91.06	175.85	7,793.13	-1,433.05	103.98	1,436.81	0.00	0.00	0.00
9,100.00	91.06	175.85	7,791.28	-1,532.77	111.21	1,536.80	0.00	0.00	0.00
9,200.00	91.06	175.85	7,789.44	-1,632.49	118.45	1,636.78	0.00	0.00	0.00
9,300.00	91.06	175.85	7,787.60	-1,732.21	125.68	1,736.76	0.00	0.00	0.00
9,400.00	91.06	175.85	7,785.75	-1,831.93	132.92	1,836.74	0.00	0.00	0.00
9,500.00	91.06	175.85	7,783.91	-1,931.65	140.15	1,936.73	0.00	0.00	0.00
9,600.00	91.06	175.85	7,782.07	-2,031.37	147.39	2,036.71	0.00	0.00	0.00
9,700.00	91.06	175.85	7,780.22	-2,131.09	154.62	2,136.69	0.00	0.00	0.00
9,800.00	91.06	175.85	7,778.38	-2,230.81	161.86	2,236.68	0.00	0.00	0.00
9,900.00	91.06	175.85	7,776.54	-2,330.53	169.10	2,336.66	0.00	0.00	0.00
10,000.00	91.06	175.85	7,774.69	-2,430.25	176.33	2,436.64	0.00	0.00	0.00
10,100.00	91.06	175.85	7,772.85	-2,529.97	183.57	2,536.63	0.00	0.00	0.00
10,200.00	91.06	175.85	7,771.01	-2,629.70	190.80	2,636.61	0.00	0.00	0.00
10,300.00	91.06	175.85	7,769.16	-2,729.42	198.04	2,736.59	0.00	0.00	0.00
10,400.00	91.06	175.85	7,767.32	-2,829.14	205.27	2,836.57	0.00	0.00	0.00
10,500.00	91.06	175.85	7,765.48	-2,928.86	212.51	2,936.56	0.00	0.00	0.00
10,600.00	91.06	175.85	7,763.63	-3,028.58	219.74	3,036.54	0.00	0.00	0.00
10,700.00	91.06	175.85	7,761.79	-3,128.30	226.98	3,136.52	0.00	0.00	0.00

Leam Drilling Systems LLC

Survey Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 6H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3201' + KB 26' @ 3227.00usft (Original Well Elev)
Site:	Lone Tree Draw "13" State	MD Reference:	GE 3201' + KB 26' @ 3227.00usft (Original Well Elev)
Well:	6H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1 Draft 1	Database:	EDM 5000.1 Single User Db

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
10,800.00	91.06	175.85	7,759.95	-3,228.02	234.21	3,236.51	0.00	0.00	0.00	
10,900.00	91.06	175.85	7,758.10	-3,327.74	241.45	3,336.49	0.00	0.00	0.00	
11,000.00	91.06	175.85	7,756.26	-3,427.46	248.68	3,436.47	0.00	0.00	0.00	
11,100.00	91.06	175.85	7,754.41	-3,527.18	255.92	3,536.46	0.00	0.00	0.00	
11,200.00	91.06	175.85	7,752.57	-3,626.90	263.16	3,636.44	0.00	0.00	0.00	
11,300.00	91.06	175.85	7,750.73	-3,726.63	270.39	3,736.42	0.00	0.00	0.00	
11,400.00	91.06	175.85	7,748.88	-3,826.35	277.63	3,836.40	0.00	0.00	0.00	
11,500.00	91.06	175.85	7,747.04	-3,926.07	284.86	3,936.39	0.00	0.00	0.00	
11,600.00	91.06	175.85	7,745.20	-4,025.79	292.10	4,036.37	0.00	0.00	0.00	
11,700.00	91.06	175.85	7,743.35	-4,125.51	299.33	4,136.35	0.00	0.00	0.00	
11,800.00	91.06	175.85	7,741.51	-4,225.23	306.57	4,236.34	0.00	0.00	0.00	
11,900.00	91.06	175.85	7,739.67	-4,324.95	313.80	4,336.32	0.00	0.00	0.00	
12,000.00	91.06	175.85	7,737.82	-4,424.67	321.04	4,436.30	0.00	0.00	0.00	
12,100.00	91.06	175.85	7,735.98	-4,524.39	328.27	4,536.29	0.00	0.00	0.00	
12,200.00	91.06	175.85	7,734.14	-4,624.11	335.51	4,636.27	0.00	0.00	0.00	
12,300.00	91.06	175.85	7,732.29	-4,723.83	342.74	4,736.25	0.00	0.00	0.00	
12,370.13	91.06	175.85	7,731.00	-4,793.77	347.82	4,806.37	0.00	0.00	0.00	
TD at 12370.13' MD - PBHL(LTDS 6H)										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
- hit/miss target										
- Shape										
SHL(LTDS 6H)	0.00	0.00	0.00	0.00	0.00	540,978.36	597,634.28	32° 29' 13.485 N	104° 9' 2.708 W	
- plan misses target center by 7236.00usft at 7236.00usft MD (7236.00 TVD, 0.00 N, 0.00 E)										
- Point										
PBHL(LTDS 6H)	0.00	0.00	7,731.00	-4,793.77	347.82	536,184.59	597,982.10	32° 28' 26.042 N	104° 8' 58.743 W	
- plan hits target center										
- Point										
LP(LTDS 6H)	0.00	0.00	7,817.00	-165.02	3.73	540,813.34	597,638.01	32° 29' 11.852 N	104° 9' 2.668 W	
- plan misses target center by 137.32usft at 7787.59usft MD (7706.25 TVD, -244.98 N, 17.77 E)										
- Point										

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
7236	7236	0	0	KOP: Start DLS 10.00 TFO 175.85	
8147	7809	-582	42	EOC: Start 4223.57 hold at 8146.56 MD	
12,370	7731	-4794	348	TD at 12370.13' MD	

Checked By: _____	Approved By: _____	Date: _____
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DEVON ENERGY

Eddy County, NM (NAD-83)
Lone Tree Draw "13" State
6H

OH
Plan #1 Draft 1

Anticollision Report

14 January, 2014

Leam Drilling Systems LLC

Anticollision Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 6H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3201' + KB 26' @ 3227.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3201' + KB 26' @ 3227.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00' sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1 Draft 1	Offset TVD Reference:	Reference Datum

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

Survey Tool Program		Date	01/14/14		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	12,370.13	Plan #1 Draft 1 (OH)	LEAM MWD-ADJ	MWD - Standard	

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Lone Tree Draw "13" State						
2H - OH - OH	100.00	90.33	413.84	413.65	2,269.324	CC
2H - OH - OH	400.00	389.24	414.69	413.04	251.372	ES
2H - OH - OH	4,700.00	4,672.06	474.84	453.81	22.581	SF
2H - Pilot - Pilot	100.00	90.33	413.84	413.65	2,269.314	CC
2H - Pilot - Pilot	400.00	389.24	414.69	413.04	251.372	ES
2H - Pilot - Pilot	7,000.00	6,978.42	457.83	428.29	15.496	SF
4H - OH - OH	3,363.36	3,341.46	2,636.85	2,623.57	198.654	CC
4H - OH - OH	4,400.00	4,369.00	2,637.44	2,620.15	152.484	ES
4H - OH - OH	12,370.13	9,431.34	3,831.84	3,694.75	27.952	SF
4H - Pilot - Pilot	4,983.15	4,961.29	2,632.44	2,612.58	132.504	CC
4H - Pilot - Pilot	6,300.00	6,268.61	2,635.73	2,610.75	105.524	ES
4H - Pilot - Pilot	12,370.13	7,696.69	5,357.89	5,254.01	51.576	SF
5H - OH - OH	1,809.17	1,772.20	4,033.21	4,026.41	593.074	CC
5H - OH - OH	3,300.00	3,257.20	4,034.27	4,021.52	316.599	ES
5H - OH - OH	12,370.13	9,498.16	4,725.24	4,568.56	30.158	SF
7H - OH - OH	12,370.13	12,456.00	1,041.67	868.87	6.028	CC, ES, SF
8H - OH - Plan #1	12,370.13	12,299.56	2,718.02	2,538.69	15.157	CC, ES, SF
Lone Tree Draw Offsets						
Lone Tree #1 - OH - OH	10,749.57	7,716.24	1,379.30	1,301.07	17.632	CC, ES
Lone Tree #1 - OH - OH	11,200.00	7,704.60	1,450.94	1,364.65	16.816	SF
Lone Tree Draw 13 State #3H - OH - OH	4,741.62	4,736.00	1,435.65	1,414.84	69.005	CC, ES
Lone Tree Draw 13 State #3H - OH - OH	12,370.13	9,564.00	2,916.82	2,823.24	31.171	SF

Offset Design													Lone Tree Draw "13" State - 2H - OH - OH		Offset Site Error: 0.00 usft	
Survey Program: 80-NS-GYRO-MS, 4361-LEAM MWD, 9485-Project													Offset Well Error: 0.00 usft			
Reference		Offset		Semi Major Axis		Distance										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning			
0.00	0.00	0.00	9.00	0.00	0.00	86.19	27.51	412.84	413.85							
100.00	100.00	90.33	99.33	0.08	0.10	86.19	27.48	412.92	413.84	413.65	0.18	2,269.324	CC			
200.00	200.00	190.05	199.05	0.31	0.36	86.21	27.38	413.12	414.03	413.36	0.67	616.430				
300.00	300.00	289.60	298.60	0.53	0.63	86.23	27.25	413.42	414.32	413.16	1.16	357.006				

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 6H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3201' + KB 26' @ 3227.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3201' + KB 26' @ 3227.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1 Draft 1	Offset TVD Reference:	Reference Datum

Offset Design Lone Tree Draw "13" State - 2H - OH - OH											Offset Site Error:	0.00 usft
Survey Program: 80-NS-GYRO-MS, 4361-LEAM MWD, 9485-Project											Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis		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
400.00	400.00	389.24	398.24	0.76	0.89	86.26	27.07	413.80	414.69	413.04	1.65	251.372 ES
500.00	500.00	488.47	497.47	0.98	1.16	86.30	26.82	414.33	415.21	413.07	2.14	194.227
600.00	600.00	587.68	596.67	1.21	1.42	86.35	26.44	415.05	415.90	413.28	2.63	158.401
700.00	700.00	686.89	695.88	1.43	1.68	86.43	25.97	415.98	416.81	413.70	3.11	133.898
800.00	800.00	786.17	795.15	1.66	1.94	86.55	25.14	417.09	417.87	414.27	3.60	116.110
900.00	900.00	884.96	893.92	1.88	2.20	86.70	24.13	418.42	419.16	415.08	4.08	102.640
1,000.00	1,000.00	983.85	992.79	2.11	2.46	86.87	22.93	420.08	420.76	416.20	4.57	92.073
1,100.00	1,100.00	1,083.39	1,092.31	2.33	2.73	87.08	21.55	421.93	422.55	417.49	5.06	83.551
1,200.00	1,200.00	1,183.33	1,192.21	2.56	2.99	87.33	19.74	423.85	424.38	418.84	5.54	76.551
1,300.00	1,300.00	1,282.17	1,291.00	2.78	3.25	87.66	17.44	425.86	426.31	420.29	6.02	70.761
1,400.00	1,400.00	1,382.20	1,390.96	3.01	3.50	88.07	14.41	428.14	428.48	421.97	6.51	65.850
1,500.00	1,500.00	1,482.84	1,491.54	3.23	3.76	88.47	11.47	430.28	430.51	423.52	6.99	61.584
1,600.00	1,600.00	1,584.33	1,592.98	3.45	4.03	88.83	8.83	432.18	432.32	424.85	7.48	57.814
1,700.00	1,700.00	1,682.41	1,691.02	3.68	4.28	89.09	6.91	433.99	434.14	426.18	7.96	54.540
1,800.00	1,800.00	1,783.02	1,791.59	3.90	4.55	89.29	5.43	436.04	436.16	427.70	8.45	51.605
1,900.00	1,900.00	1,885.48	1,894.03	4.13	4.82	89.43	4.38	437.72	437.78	428.83	8.95	48.925
2,000.00	2,000.00	1,986.03	1,994.58	4.35	5.09	89.53	3.62	439.03	439.08	429.54	9.44	46.519
2,100.00	2,100.00	2,086.12	2,094.65	4.58	5.35	89.61	2.96	440.22	440.26	430.33	9.93	44.345
2,200.00	2,200.00	2,184.80	2,193.32	4.80	5.62	89.73	2.11	441.60	441.65	431.24	10.41	42.409
2,300.00	2,300.00	2,284.52	2,293.02	5.03	5.88	89.85	1.19	443.15	443.20	432.30	10.90	40.649
2,400.00	2,400.00	2,384.62	2,393.11	5.25	6.15	89.96	0.29	444.73	444.78	433.39	11.39	39.040
2,500.00	2,500.00	2,485.22	2,493.70	5.48	6.41	90.06	-0.47	446.22	446.27	434.38	11.88	37.555
2,600.00	2,600.00	2,585.65	2,594.11	5.70	6.68	90.14	-1.10	447.57	447.61	435.24	12.37	36.178
2,700.00	2,700.00	2,685.79	2,694.25	5.93	6.94	90.23	-1.79	448.87	448.91	436.05	12.86	34.903
2,800.00	2,800.00	2,785.63	2,794.08	6.15	7.21	90.32	-2.49	450.15	450.20	436.84	13.35	33.720
2,900.00	2,900.00	2,884.90	2,893.33	6.38	7.47	90.42	-3.32	451.52	451.58	437.74	13.84	32.631
3,000.00	3,000.00	2,985.17	2,993.59	6.60	7.74	90.53	-4.17	453.00	453.07	438.74	14.33	31.618
3,100.00	3,100.00	3,085.42	3,093.83	6.83	8.00	90.61	-4.84	454.37	454.44	439.62	14.82	30.666
3,200.00	3,200.00	3,184.51	3,192.90	7.05	8.26	90.67	-5.36	455.79	455.88	440.57	15.30	29.791
3,300.00	3,300.00	3,283.10	3,291.47	7.28	8.51	90.71	-5.68	457.47	457.58	441.80	15.78	29.001
3,400.00	3,400.00	3,383.46	3,391.82	7.50	8.76	90.72	-5.75	459.32	459.42	443.18	16.25	28.275
3,500.00	3,500.00	3,485.80	3,494.15	7.73	8.99	90.69	-5.55	460.88	460.95	444.24	16.71	27.585
3,600.00	3,600.00	3,586.16	3,594.50	7.95	9.21	90.64	-5.20	462.12	462.18	445.03	17.16	26.941
3,700.00	3,700.00	3,687.03	3,695.36	8.17	9.42	90.57	-4.65	463.22	463.27	445.69	17.58	26.350
3,800.00	3,800.00	3,787.37	3,795.69	8.40	9.59	90.47	-3.78	464.21	464.24	446.26	17.98	25.820
3,900.00	3,900.00	3,887.74	3,896.05	8.62	9.75	90.33	-2.71	465.08	465.11	446.75	18.36	25.329
4,000.00	4,000.00	3,988.05	3,996.35	8.85	9.91	90.21	-1.74	465.95	465.97	447.22	18.75	24.855
4,100.00	4,100.00	4,088.94	4,097.24	9.07	10.07	90.10	-0.82	466.61	466.62	447.49	19.13	24.391
4,200.00	4,200.00	4,189.26	4,197.55	9.30	10.22	90.00	0.03	467.19	467.20	447.69	19.51	23.948
4,300.00	4,300.00	4,289.72	4,298.01	9.52	10.37	89.89	0.86	467.65	467.66	447.77	19.88	23.521
4,400.00	4,400.00	4,388.87	4,397.01	9.75	10.45	90.28	-2.29	468.24	468.26	448.05	20.21	23.171
4,500.00	4,500.00	4,491.28	4,498.06	9.97	10.47	92.28	-18.63	468.17	468.54	448.10	20.45	22.916
4,600.00	4,600.00	4,584.03	4,586.80	10.20	10.50	95.54	-45.33	467.74	470.11	449.40	20.71	22.699
4,700.00	4,700.00	4,672.06	4,666.55	10.42	10.58	100.02	-82.40	466.44	474.84	453.81	21.03	22.581 SF
4,800.00	4,800.00	4,744.96	4,728.04	10.65	10.71	104.65	-121.42	464.39	485.36	463.97	21.40	22.685
4,900.00	4,900.00	4,802.55	4,772.11	10.87	10.88	108.90	-158.39	462.57	505.39	483.60	21.79	23.196
5,000.00	5,000.00	4,865.00	4,815.38	11.10	11.14	113.87	-203.25	459.20	535.03	512.78	22.25	24.048
5,100.00	5,100.00	4,909.49	4,842.75	11.32	11.37	117.60	-238.09	455.37	574.65	551.97	22.68	25.338
5,200.00	5,200.00	4,942.74	4,861.02	11.55	11.58	120.45	-265.64	451.90	624.24	601.17	23.07	27.054
5,300.00	5,300.00	4,970.07	4,874.77	11.77	11.77	122.77	-289.09	449.13	682.72	659.28	23.44	29.122
5,400.00	5,400.00	4,991.00	4,884.63	12.00	11.92	124.52	-307.44	446.98	748.28	724.50	23.78	31.467

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 6H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3201' + KB 26' @ 3227.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3201' + KB 26' @ 3227.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1 Draft 1	Offset TVD Reference:	Reference Datum

Offset Design Lone Tree Draw "13" State - 2H - OH - OH														Offset Site Error:	0.00 usft
Survey Program: 80-NS-GYRO-MS, 4361-LEAM MWD, 9485-Project														Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside 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)							
5,500.00	5,500.00	5,023.00	4,898.48	12.22	12.18	127.15	-336.08	443.64	819.51	795.34	24.18	33.896			
5,600.00	5,600.00	5,023.00	4,898.48	12.45	12.18	127.15	-336.08	443.64	895.49	871.09	24.40	36.697			
5,700.00	5,700.00	5,054.00	4,910.09	12.67	12.45	129.62	-364.64	440.39	975.12	950.33	24.79	39.329			
5,800.00	5,800.00	5,054.00	4,910.09	12.89	12.45	129.62	-364.64	440.39	1,057.76	1,032.74	25.02	42.278			
5,900.00	5,900.00	5,066.12	4,914.04	13.12	12.57	130.57	-376.02	439.11	1,142.94	1,117.63	25.31	45.159			
6,000.00	6,000.00	5,086.00	4,919.79	13.34	12.76	132.11	-394.93	436.94	1,230.34	1,204.71	25.64	47.991			
6,100.00	6,100.00	5,086.00	4,919.79	13.57	12.76	132.11	-394.93	436.94	1,319.01	1,293.15	25.86	51.002			
6,200.00	6,200.00	5,086.00	4,919.79	13.79	12.76	132.11	-394.93	436.94	1,409.20	1,383.11	26.09	54.020			
6,300.00	6,300.00	5,098.34	4,922.96	14.02	12.88	133.04	-406.77	435.56	1,500.47	1,474.10	26.38	56.890			
6,400.00	6,400.00	5,106.34	4,924.91	14.24	12.96	133.64	-414.48	434.66	1,592.68	1,566.04	26.64	59.785			
6,500.00	6,500.00	5,117.00	4,927.36	14.47	13.07	134.42	-424.78	433.46	1,685.68	1,658.76	26.92	62.626			
6,600.00	6,600.00	5,117.00	4,927.36	14.69	13.07	134.42	-424.78	433.46	1,779.34	1,752.20	27.14	65.558			
6,700.00	6,700.00	5,117.00	4,927.36	14.92	13.07	134.42	-424.78	433.46	1,873.65	1,846.28	27.37	68.466			
6,800.00	6,800.00	5,130.79	4,930.29	15.14	13.22	135.41	-438.16	431.88	1,968.33	1,940.67	27.66	71.166			
6,900.00	6,900.00	5,135.54	4,931.23	15.37	13.27	135.75	-442.79	431.32	2,063.53	2,035.63	27.91	73.947			
7,000.00	7,000.00	5,149.00	4,933.69	15.59	13.42	136.69	-455.93	429.74	2,159.21	2,131.02	28.19	76.590			
7,100.00	7,100.00	5,149.00	4,933.69	15.82	13.42	136.69	-455.93	429.74	2,255.10	2,226.68	28.42	79.358			
7,200.00	7,200.00	5,149.00	4,933.69	16.04	13.42	136.69	-455.93	429.74	2,351.32	2,322.68	28.64	82.095			
7,236.00	7,236.00	5,149.00	4,933.69	16.12	13.42	136.69	-455.93	429.74	2,386.04	2,357.32	28.72	83.073			
7,250.00	7,250.00	5,149.00	4,933.69	16.15	13.42	-36.12	-455.93	429.74	2,399.52	2,371.04	28.48	84.259			
7,300.00	7,299.87	5,149.00	4,933.69	16.23	13.42	-28.03	-455.93	429.74	2,447.02	2,418.88	28.14	86.972			
7,350.00	7,349.25	5,149.00	4,933.69	16.32	13.42	-22.77	-455.93	429.74	2,493.32	2,465.44	27.87	89.451			
7,400.00	7,397.77	5,149.00	4,933.69	16.41	13.42	-19.15	-455.93	429.74	2,538.14	2,510.52	27.62	91.904			
7,450.00	7,445.06	5,165.52	4,936.34	16.49	13.61	-16.26	-472.12	427.81	2,580.98	2,553.70	27.28	94.607			
7,500.00	7,480.76	5,181.00	4,938.50	16.58	13.78	-14.16	-487.34	426.03	2,621.99	2,595.18	26.81	97.815			
7,550.00	7,534.52	5,181.00	4,938.50	16.66	13.78	-12.75	-487.34	426.03	2,660.56	2,634.41	26.15	101.737			
7,600.00	7,576.00	5,181.00	4,938.50	16.77	13.78	-11.64	-487.34	426.03	2,696.73	2,671.37	25.36	106.327			
7,650.00	7,614.90	5,194.07	4,940.09	16.90	13.93	-10.65	-500.23	424.56	2,730.19	2,705.70	24.49	111.486			
7,700.00	7,650.92	5,212.00	4,941.98	17.06	14.15	-9.83	-517.96	422.65	2,760.84	2,737.31	23.53	117.335			
7,750.00	7,683.78	5,212.00	4,941.98	17.24	14.15	-9.28	-517.96	422.65	2,788.36	2,765.93	22.43	124.323			
7,800.00	7,713.23	5,225.21	4,943.17	17.46	14.31	-8.77	-531.04	421.28	2,812.74	2,791.43	21.32	131.948			
7,850.00	7,739.05	5,244.00	4,944.58	17.71	14.54	-8.32	-549.68	419.34	2,833.84	2,813.63	20.21	140.207			
7,900.00	7,761.04	5,244.00	4,944.58	18.00	14.54	-8.05	-549.68	419.34	2,851.48	2,832.42	19.05	149.661			
7,950.00	7,779.03	5,244.00	4,944.58	18.33	14.54	-7.85	-549.68	419.34	2,865.81	2,847.84	17.96	159.524			
8,000.00	7,792.89	5,259.13	4,945.30	18.70	14.73	-7.63	-564.71	417.73	2,876.47	2,859.38	17.09	168.322			
8,050.00	7,802.52	5,275.00	4,945.47	19.10	14.93	-7.47	-580.47	415.94	2,883.84	2,867.42	16.43	175.540			
8,100.00	7,807.83	5,275.00	4,945.47	19.54	14.93	-7.42	-580.47	415.94	2,887.44	2,871.48	15.96	180.920			
8,146.56	7,808.86	5,275.00	4,945.47	19.97	14.93	-7.42	-580.47	415.94	2,887.68	2,871.86	15.82	182.518			
8,200.00	7,807.86	5,449.30	4,945.16	20.51	17.06	-6.71	-753.09	392.09	2,885.95	2,868.99	16.96	170.159			
8,300.00	7,806.03	5,527.59	4,946.94	21.59	18.06	-6.37	-830.43	380.07	2,879.28	2,861.50	17.79	161.862			
8,400.00	7,804.19	5,585.00	4,947.39	22.77	18.85	-6.13	-887.23	371.71	2,874.17	2,855.62	18.55	154.961			
8,500.00	7,802.35	5,665.50	4,947.51	24.04	20.01	-5.84	-967.22	362.73	2,870.21	2,850.71	19.51	147.138			
8,600.00	7,800.50	5,767.52	4,948.08	25.39	21.48	-5.58	-1,069.05	356.78	2,866.52	2,845.85	20.66	138.716			
8,700.00	7,798.66	5,890.51	4,949.53	26.79	23.26	-5.31	-1,191.93	351.75	2,862.43	2,840.42	22.01	130.057			
8,800.00	7,796.81	6,048.88	4,953.49	28.25	25.61	-4.93	-1,350.04	343.73	2,857.04	2,833.42	23.62	120.942			
8,900.00	7,794.97	6,117.96	4,955.74	29.75	26.67	-4.77	-1,419.00	340.25	2,850.94	2,826.29	24.66	115.623			
9,000.00	7,793.13	6,152.00	4,956.46	31.29	27.19	-4.68	-1,452.96	338.08	2,846.38	2,820.91	25.47	111.758			
9,100.00	7,791.28	6,217.42	4,956.62	32.87	28.25	-4.48	-1,518.16	332.73	2,843.35	2,816.84	26.50	107.278			
9,200.00	7,789.44	6,285.04	4,955.09	34.47	29.33	-4.24	-1,585.39	325.71	2,842.31	2,814.75	27.56	103.124			
9,300.00	7,787.60	6,477.87	4,954.19	36.10	32.38	-3.67	-1,777.61	311.29	2,839.84	2,810.35	29.49	95.305			

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 6H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3201' + KB 26' @ 3227.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3201' + KB 26' @ 3227.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore:	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1 Draft 1	Offset TVD Reference:	Reference Datum

Offset Design Lone Tree Draw "13" State - 2H - OH - OH														Offset Site Error:	0.00 usft
Survey Program: 80-NS-GYRO-MS, 4361-LEAM MWD, 9485-Project														Offset Well Error:	0.00 usft
Reference		Offset		Semi-Major Axis		Highside 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)					
9,400.00	7,785.75	6,566.84	4,955.20	37.74	33.81	-3.49	-1,866.53	308.56	2,836.21	2,805.47	30.74	92.265			
9,500.00	7,783.91	6,657.42	4,956.08	39.41	35.29	-3.30	-1,957.06	305.57	2,832.78	2,800.77	32.01	88.493			
9,600.00	7,782.07	6,742.60	4,956.19	41.10	36.68	-3.07	-2,042.05	300.03	2,830.01	2,796.77	33.24	85.128			
9,700.00	7,780.22	6,845.82	4,956.37	42.80	38.37	-2.74	-2,144.90	291.33	2,827.20	2,792.59	34.60	81.705			
9,800.00	7,778.38	6,931.88	4,956.12	44.51	39.80	-2.46	-2,230.61	283.51	2,824.89	2,789.04	35.85	78.797			
9,900.00	7,776.54	7,036.13	4,955.94	46.23	41.52	-2.13	-2,334.47	274.52	2,822.56	2,785.33	37.23	75.809			
10,000.00	7,774.69	7,098.00	4,955.73	47.96	42.55	-1.93	-2,396.10	269.05	2,820.70	2,782.37	38.33	73.590			
10,100.00	7,772.85	7,193.00	4,954.23	49.71	44.17	-1.60	-2,490.60	259.45	2,819.91	2,780.25	39.66	71.103			
10,119.34	7,772.49	7,193.00	4,954.23	50.04	44.17	-1.60	-2,490.60	259.45	2,819.85	2,780.06	39.79	70.867			
10,200.00	7,771.01	7,261.64	4,952.39	51.46	45.34	-1.34	-2,558.77	251.71	2,820.16	2,779.35	40.81	69.101			
10,300.00	7,769.16	7,346.40	4,949.90	53.21	46.79	-1.02	-2,642.93	241.89	2,820.93	2,778.84	42.08	67.031			
10,400.00	7,767.32	7,591.66	4,948.01	54.98	50.85	-0.08	-2,886.46	213.28	2,819.90	2,775.38	44.52	63.347			
10,500.00	7,765.48	7,703.52	4,950.48	56.75	52.69	0.33	-2,997.62	201.05	2,815.85	2,769.83	46.02	61.187			
10,600.00	7,763.63	7,805.90	4,953.21	58.53	54.39	0.73	-3,099.28	189.22	2,811.47	2,764.00	47.47	59.224			
10,700.00	7,761.79	7,903.41	4,955.68	60.31	56.03	1.12	-3,195.98	176.98	2,807.37	2,758.46	48.90	57.408			
10,800.00	7,759.95	8,003.02	4,958.40	62.09	57.70	1.53	-3,294.70	164.02	2,803.22	2,752.85	50.37	55.658			
10,900.00	7,758.10	8,104.54	4,961.14	63.88	59.41	1.97	-3,395.22	150.06	2,799.27	2,747.41	51.86	53.973			
11,000.00	7,756.26	8,183.74	4,963.29	65.68	60.72	2.30	-3,473.67	139.38	2,795.49	2,742.29	53.20	52.545			
11,100.00	7,754.41	8,258.53	4,964.44	67.48	61.96	2.61	-3,547.84	129.87	2,792.90	2,738.38	54.51	51.233			
11,200.00	7,752.57	8,329.00	4,965.38	69.28	63.13	2.87	-3,617.92	122.53	2,790.75	2,734.96	55.79	50.019			
11,300.00	7,750.73	8,423.00	4,965.46	71.08	64.71	3.19	-3,711.51	113.77	2,789.71	2,732.44	57.27	48.710			
11,324.94	7,750.27	8,423.00	4,965.46	71.53	64.71	3.19	-3,711.51	113.77	2,789.60	2,732.15	57.45	48.557			
11,400.00	7,748.88	8,480.59	4,964.67	72.89	65.68	3.38	-3,768.86	108.55	2,789.94	2,731.48	58.46	47.725			
11,500.00	7,747.04	8,574.90	4,963.06	74.70	67.27	3.67	-3,862.85	101.03	2,790.76	2,730.81	59.95	46.549			
11,600.00	7,745.20	8,730.76	4,961.69	76.51	69.90	4.12	-4,018.35	90.62	2,790.80	2,728.83	61.97	45.037			
11,700.00	7,743.35	8,818.89	4,961.73	78.32	71.40	4.36	-4,106.32	85.31	2,789.92	2,726.49	63.43	43.987			
11,761.51	7,742.22	8,864.26	4,961.56	79.44	72.18	4.50	-4,151.55	81.77	2,789.73	2,725.47	64.26	43.412			
11,800.00	7,741.51	8,897.00	4,961.32	80.14	72.74	4.61	-4,184.15	78.72	2,789.81	2,724.98	64.83	43.034			
11,900.00	7,739.67	9,131.77	4,963.56	81.96	76.69	5.37	-4,418.04	59.17	2,789.31	2,721.67	67.64	41.236			
12,000.00	7,737.82	9,241.21	4,968.46	83.78	78.54	5.66	-4,527.21	53.32	2,784.16	2,714.82	69.34	40.151			
12,100.00	7,735.98	9,331.04	4,972.00	85.60	80.08	5.91	-4,616.82	48.22	2,779.67	2,708.78	70.88	39.215			
12,200.00	7,734.14	9,454.22	4,977.41	87.42	81.75	6.27	-4,739.63	40.36	2,774.89	2,702.32	72.57	38.239			
12,300.00	7,732.29	9,485.00	4,978.91	89.25	81.75	6.36	-4,770.31	38.32	2,770.55	2,697.19	73.36	37.768			
12,370.13	7,731.00	9,485.00	4,978.91	90.53	81.75	6.36	-4,770.31	38.32	2,769.53	2,695.66	73.88	37.489			

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 6H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3201' + KB 26' @ 3227.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3201' + KB 26' @ 3227.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1 Draft 1	Offset TVD Reference:	Reference Datum

Offset Design												Offset Site Error:	0.00 usft
Lone Tree Draw "13" State - 2H - Pilot - Pilot												Offset Well Error:	0.00 usft
Survey Program: 80-NS-GYRO-MS													
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	0.00	9.00	0.00	0.00	86.19	27.51	412.84	413.85				
100.00	100.00	90.33	99.33	0.08	0.10	86.19	27.48	412.92	413.84	413.65	0.18	2,269.314 CC	
200.00	200.00	190.05	199.05	0.31	0.36	86.21	27.38	413.12	414.03	413.36	0.67	616.430	
300.00	300.00	289.60	298.60	0.53	0.63	86.23	27.25	413.42	414.32	413.16	1.16	357.006	
400.00	400.00	389.24	398.24	0.76	0.89	86.26	27.07	413.80	414.69	413.04	1.65	251.372 ES	
500.00	500.00	488.47	497.47	0.98	1.16	86.30	26.82	414.33	415.21	413.07	2.14	194.227	
600.00	600.00	587.68	596.67	1.21	1.42	86.35	26.44	415.05	415.90	413.28	2.63	158.401	
700.00	700.00	686.89	695.88	1.43	1.68	86.43	25.97	415.98	416.81	413.70	3.11	133.898	
800.00	800.00	786.17	795.15	1.66	1.94	86.55	25.14	417.09	417.87	414.27	3.60	116.111	
900.00	900.00	884.96	893.92	1.88	2.20	86.70	24.13	418.42	419.18	415.08	4.08	102.640	
1,000.00	1,000.00	983.85	992.79	2.11	2.46	86.87	22.93	420.08	420.76	416.20	4.57	92.073	
1,100.00	1,100.00	1,083.39	1,092.31	2.33	2.73	87.08	21.55	421.93	422.55	417.49	5.06	83.552	
1,200.00	1,200.00	1,183.33	1,192.21	2.58	2.99	87.33	19.74	423.85	424.38	418.84	5.54	76.552	
1,300.00	1,300.00	1,282.17	1,291.00	2.78	3.25	87.66	17.44	425.86	426.31	420.29	6.02	70.762	
1,400.00	1,400.00	1,382.20	1,390.96	3.01	3.50	88.07	14.41	428.14	428.48	421.97	6.51	65.851	
1,500.00	1,500.00	1,482.84	1,491.54	3.23	3.76	88.47	11.47	430.28	430.51	423.52	6.99	61.585	
1,600.00	1,600.00	1,584.33	1,592.98	3.45	4.03	88.83	8.83	432.18	432.32	424.85	7.48	57.816	
1,700.00	1,700.00	1,682.41	1,691.02	3.68	4.28	89.09	6.91	433.99	434.14	426.18	7.96	54.541	
1,800.00	1,800.00	1,783.02	1,791.59	3.90	4.55	89.29	5.43	436.04	436.16	427.70	8.45	51.607	
1,900.00	1,900.00	1,885.48	1,894.03	4.13	4.82	89.43	4.38	437.72	437.78	428.83	8.95	48.926	
2,000.00	2,000.00	1,986.03	1,994.58	4.35	5.09	89.53	3.62	439.03	439.08	429.64	9.44	46.520	
2,100.00	2,100.00	2,086.12	2,094.65	4.58	5.35	89.61	2.96	440.22	440.26	430.33	9.93	44.347	
2,200.00	2,200.00	2,184.80	2,193.32	4.80	5.62	89.73	2.11	441.60	441.65	431.24	10.41	42.410	
2,300.00	2,300.00	2,284.52	2,293.02	5.03	5.88	89.85	1.19	443.15	443.20	432.30	10.90	40.650	
2,400.00	2,400.00	2,384.62	2,393.11	5.25	6.15	89.96	0.29	444.73	444.78	433.39	11.39	39.042	
2,500.00	2,500.00	2,485.22	2,493.70	5.48	6.41	90.06	-0.47	446.22	446.27	434.38	11.88	37.556	
2,600.00	2,600.00	2,585.65	2,594.11	5.70	6.68	90.14	-1.10	447.57	447.61	435.24	12.37	36.179	
2,700.00	2,700.00	2,685.79	2,694.25	5.93	6.94	90.23	-1.79	448.87	448.91	436.05	12.86	34.904	
2,800.00	2,800.00	2,785.63	2,794.08	6.15	7.21	90.32	-2.49	450.15	450.20	436.84	13.35	33.721	
2,900.00	2,900.00	2,884.90	2,893.33	6.38	7.47	90.42	-3.32	451.52	451.58	437.74	13.84	32.632	
3,000.00	3,000.00	2,985.17	2,993.59	6.60	7.74	90.53	-4.17	453.00	453.07	438.74	14.33	31.618	
3,100.00	3,100.00	3,085.42	3,093.83	6.83	8.00	90.61	-4.84	454.37	454.44	439.62	14.82	30.667	
3,200.00	3,200.00	3,184.51	3,192.90	7.05	8.26	90.67	-5.36	455.79	455.88	440.57	15.30	29.792	
3,300.00	3,300.00	3,283.10	3,291.47	7.28	8.51	90.71	-5.68	457.47	457.58	441.80	15.78	29.002	
3,400.00	3,400.00	3,383.46	3,391.82	7.50	8.76	90.72	-5.75	459.32	459.42	443.18	16.25	28.275	
3,500.00	3,500.00	3,485.80	3,494.15	7.73	8.99	90.69	-5.55	460.88	460.95	444.24	16.71	27.585	
3,600.00	3,600.00	3,586.16	3,594.50	7.95	9.21	90.64	-5.20	462.12	462.18	445.03	17.16	26.942	
3,700.00	3,700.00	3,687.03	3,695.36	8.17	9.42	90.57	-4.65	463.22	463.27	445.69	17.58	26.350	
3,800.00	3,800.00	3,787.37	3,795.69	8.40	9.59	90.47	-3.78	464.21	464.24	446.26	17.98	25.821	
3,900.00	3,900.00	3,887.74	3,896.05	8.62	9.75	90.33	-2.71	465.08	465.11	446.75	18.36	25.330	
4,000.00	4,000.00	3,988.05	3,996.35	8.85	9.91	90.21	-1.74	465.95	465.97	447.22	18.75	24.856	
4,100.00	4,100.00	4,088.94	4,097.24	9.07	10.07	90.10	-0.82	466.61	466.62	447.49	19.13	24.392	
4,200.00	4,200.00	4,189.26	4,197.55	9.30	10.22	90.00	0.03	467.19	467.20	447.69	19.51	23.949	
4,300.00	4,300.00	4,289.72	4,298.01	9.52	10.37	89.89	0.86	467.65	467.66	447.77	19.88	23.521	
4,400.00	4,400.00	4,389.83	4,398.12	9.75	10.52	89.79	1.68	468.06	468.07	447.81	20.25	23.110	
4,500.00	4,500.00	4,489.77	4,498.05	9.97	10.67	89.70	2.45	468.46	468.47	447.84	20.63	22.706	
4,600.00	4,600.00	4,589.94	4,598.22	10.20	10.82	89.60	3.23	468.86	468.88	447.87	21.01	22.314	
4,700.00	4,700.00	4,690.44	4,698.72	10.42	10.98	89.51	4.00	469.19	469.21	447.82	21.39	21.937	
4,800.00	4,800.00	4,791.20	4,799.47	10.65	11.11	89.42	4.75	469.38	469.41	447.66	21.75	21.582	
4,900.00	4,900.00	4,891.49	4,899.76	10.87	11.23	89.32	5.57	469.45	469.48	447.39	22.09	21.249	
5,000.00	5,000.00	4,990.95	4,999.21	11.10	11.35	89.19	6.63	469.54	469.58	447.14	22.44	20.925	

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 6H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3201' + KB 26' @ 3227.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3201' + KB 26' @ 3227.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1 Draft 1	Offset TVD Reference:	Reference Datum

Offset Design : Lone Tree Draw "13" State - 2H - 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		Highside Toolface (°)	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)										
5,100.00	5,100.00	5,088.42	5,096.67	11.32	11.50	89.02		8.05	469.92	470.00	447.19	22.81	20.605		
5,200.00	5,200.00	5,187.57	5,195.80	11.55	11.67	88.80		9.82	470.66	470.78	447.57	23.20	20.288		
5,300.00	5,300.00	5,287.06	5,295.27	11.77	11.85	88.57		11.80	471.58	471.75	448.14	23.61	19.983		
5,400.00	5,400.00	5,388.61	5,396.80	12.00	12.02	88.33		13.78	472.36	472.57	448.56	24.01	19.682		
5,500.00	5,500.00	5,488.81	5,496.97	12.22	12.19	88.09		15.77	472.94	473.21	448.81	24.40	19.390		
5,600.00	5,600.00	5,588.83	5,596.98	12.45	12.37	87.86		17.72	473.54	473.88	449.08	24.80	19.106		
5,700.00	5,700.00	5,688.91	5,697.04	12.67	12.56	87.69		19.12	474.05	474.45	449.23	25.22	18.814		
5,800.00	5,800.00	5,788.16	5,796.28	12.89	12.78	87.61		19.78	474.79	475.21	449.55	25.66	18.518		
5,900.00	5,900.00	5,888.99	5,897.11	13.12	13.01	87.65		19.49	475.50	475.91	449.79	26.12	18.220		
6,000.00	6,000.00	5,990.68	5,998.80	13.34	13.20	87.78		18.45	476.02	476.38	449.84	26.54	17.951		
6,100.00	6,100.00	6,093.16	6,101.27	13.57	13.35	87.95		17.04	476.07	476.37	449.46	26.91	17.703		
6,200.00	6,200.00	6,196.22	6,204.31	13.79	13.45	88.12		15.59	475.53	475.81	448.57	27.24	17.469		
6,300.00	6,300.00	6,303.62	6,311.69	14.02	13.51	88.24		14.56	473.86	474.23	446.71	27.52	17.231		
6,400.00	6,400.00	6,407.04	6,415.07	14.24	13.55	88.33		13.71	470.89	471.33	443.55	27.78	16.965		
6,500.00	6,500.00	6,503.91	6,511.88	14.47	13.60	88.53		12.01	468.13	468.44	440.38	28.06	16.696		
6,600.00	6,600.00	6,603.80	6,611.72	14.69	13.66	88.81		9.71	465.66	465.90	437.55	28.35	16.433		
6,700.00	6,700.00	6,700.57	6,708.44	14.92	13.74	89.07		7.56	463.61	463.75	435.10	28.65	16.185		
6,800.00	6,800.00	6,800.27	6,808.12	15.14	13.82	89.28		5.83	461.92	462.02	433.06	28.96	15.954		
6,900.00	6,900.00	6,904.32	6,912.12	15.37	13.90	89.49		4.06	459.56	459.74	430.47	29.27	15.709		
6,985.99	6,985.99	6,978.42	6,986.18	15.56	13.96	89.64		2.87	457.62	457.62	428.11	29.51	15.506		
7,000.00	7,000.00	6,978.42	6,986.18	15.59	13.96	89.64		2.87	457.62	457.83	428.29	29.55	15.496 SF		
7,100.00	7,100.00	6,978.42	6,986.18	15.82	13.96	89.64		2.87	457.62	471.57	441.80	29.77	15.840		
7,200.00	7,200.00	6,978.42	6,986.18	16.04	13.96	89.64		2.87	457.62	505.11	475.12	29.99	16.840		
7,236.00	7,236.00	6,978.42	6,986.18	16.12	13.96	89.64		2.87	457.62	521.37	491.30	30.08	17.335		
7,250.00	7,250.00	6,978.42	6,986.18	16.15	13.96	-85.43		2.87	457.62	528.21	498.11	30.10	17.547		
7,300.00	7,299.87	6,978.42	6,986.18	16.23	13.96	-82.33		2.87	457.62	554.63	524.45	30.18	18.375		
7,350.00	7,349.25	6,978.42	6,986.18	16.32	13.96	-78.81		2.87	457.62	583.68	553.43	30.25	19.294		
7,400.00	7,397.77	6,978.42	6,986.18	16.41	13.96	-74.94		2.87	457.62	614.78	584.50	30.29	20.300		
7,450.00	7,445.06	6,978.42	6,986.18	16.49	13.96	-70.82		2.87	457.62	647.42	617.17	30.26	21.398		
7,500.00	7,490.76	6,978.42	6,986.18	16.58	13.96	-66.56		2.87	457.62	681.15	651.03	30.13	22.610		
7,550.00	7,534.52	6,978.42	6,986.18	16.66	13.96	-62.28		2.87	457.62	715.58	685.72	29.86	23.965		
7,600.00	7,576.00	6,978.42	6,986.18	16.77	13.96	-58.09		2.87	457.62	750.36	720.93	29.43	25.498		
7,650.00	7,614.90	6,978.42	6,986.18	16.90	13.96	-54.06		2.87	457.62	785.20	756.38	28.82	27.246		
7,700.00	7,650.92	6,978.42	6,986.18	17.06	13.96	-50.26		2.87	457.62	819.85	791.82	28.03	29.246		
7,750.00	7,683.78	6,978.42	6,986.18	17.24	13.96	-46.75		2.87	457.62	854.08	826.99	27.09	31.525		
7,800.00	7,713.23	6,978.42	6,986.18	17.46	13.96	-43.53		2.87	457.62	887.70	861.67	26.03	34.105		
7,850.00	7,739.05	6,978.42	6,986.18	17.71	13.96	-40.61		2.87	457.62	920.52	895.64	24.89	36.989		
7,900.00	7,761.04	6,978.42	6,986.18	18.00	13.96	-37.99		2.87	457.62	952.40	928.68	23.72	40.155		
7,950.00	7,779.03	6,978.42	6,986.18	18.33	13.96	-35.65		2.87	457.62	983.20	960.61	22.58	43.538		
8,000.00	7,792.89	6,978.42	6,986.18	18.70	13.96	-33.57		2.87	457.62	1,012.78	991.24	21.54	47.011		
8,050.00	7,802.52	6,978.42	6,986.18	19.10	13.96	-31.72		2.87	457.62	1,041.04	1,020.38	20.66	50.377		
8,100.00	7,807.83	6,978.42	6,986.18	19.54	13.96	-30.08		2.87	457.62	1,067.88	1,047.87	20.01	53.367		
8,146.56	7,808.86	6,978.42	6,986.18	19.97	13.96	-28.74		2.87	457.62	1,091.51	1,071.87	19.65	55.554		
8,200.00	7,807.88	6,978.42	6,986.18	20.51	13.96	-28.74		2.87	457.62	1,118.82	1,098.88	19.94	56.106		
8,300.00	7,806.03	6,978.42	6,986.18	21.59	13.96	-28.74		2.87	457.62	1,174.75	1,154.21	20.54	57.182		
8,400.00	7,804.19	6,978.42	6,986.18	22.77	13.96	-28.74		2.87	457.62	1,236.26	1,215.05	21.21	58.286		
8,500.00	7,802.35	6,978.42	6,986.18	24.04	13.96	-28.74		2.87	457.62	1,302.54	1,280.61	21.93	59.394		
8,600.00	7,800.50	6,978.42	6,986.18	25.39	13.96	-28.74		2.87	457.62	1,372.92	1,350.22	22.70	60.489		
8,700.00	7,798.66	6,978.42	6,986.18	26.79	13.96	-28.74		2.87	457.62	1,446.79	1,423.29	23.50	61.557		
8,800.00	7,796.81	6,978.42	6,986.18	28.25	13.96	-28.74		2.87	457.62	1,523.64	1,499.30	24.34	62.590		

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 6H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3201' + KB 26' @ 3227.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3201' + KB 26' @ 3227.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1 Draft 1	Offset TVD Reference:	Reference Datum

Offset Design Lone Tree Draw "13" State - 2H - 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		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		
8,900.00	7,794.97	6,978.42	6,986.18	29.75	13.96	-28.74	2.87	457.62	1,603.05	1,577.84	25.21	63.582		
9,000.00	7,793.13	6,978.42	6,986.18	31.29	13.96	-28.74	2.87	457.62	1,684.65	1,658.55	26.11	64.530		
9,100.00	7,791.28	6,978.42	6,986.18	32.87	13.96	-28.74	2.87	457.62	1,768.15	1,741.13	27.02	65.433		
9,200.00	7,789.44	6,978.42	6,986.18	34.47	13.96	-28.74	2.87	457.62	1,853.28	1,825.32	27.96	66.292		
9,300.00	7,787.60	6,978.42	6,986.18	36.10	13.96	-28.74	2.87	457.62	1,939.83	1,910.92	28.91	67.107		
9,400.00	7,785.75	6,978.42	6,986.18	37.74	13.96	-28.74	2.87	457.62	2,027.61	1,997.74	29.87	67.879		
9,500.00	7,783.91	6,978.42	6,986.18	39.41	13.96	-28.74	2.87	457.62	2,116.48	2,085.84	30.85	68.611		
9,600.00	7,782.07	6,978.42	6,986.18	41.10	13.96	-28.74	2.87	457.62	2,206.31	2,174.47	31.83	69.305		
9,700.00	7,780.22	6,978.42	6,986.18	42.80	13.96	-28.74	2.87	457.62	2,296.97	2,264.14	32.83	69.962		
9,800.00	7,778.38	6,978.42	6,986.18	44.51	13.96	-28.74	2.87	457.62	2,388.38	2,354.54	33.84	70.584		
9,900.00	7,776.54	6,978.42	6,986.18	46.23	13.96	-28.74	2.87	457.62	2,480.45	2,445.60	34.85	71.175		
10,000.00	7,774.69	6,978.42	6,986.18	47.96	13.96	-28.74	2.87	457.62	2,573.12	2,537.25	35.87	71.735		
10,100.00	7,772.85	6,978.42	6,986.18	49.71	13.96	-28.74	2.87	457.62	2,666.31	2,629.42	36.90	72.267		
10,200.00	7,771.01	6,978.42	6,986.18	51.46	13.96	-28.74	2.87	457.62	2,759.99	2,722.06	37.93	72.772		
10,300.00	7,769.16	6,978.42	6,986.18	53.21	13.96	-28.74	2.87	457.62	2,854.09	2,815.12	38.96	73.252		
10,400.00	7,767.32	6,978.42	6,986.18	54.98	13.96	-28.74	2.87	457.62	2,948.58	2,908.57	40.00	73.709		
10,500.00	7,765.48	6,978.42	6,986.18	56.75	13.96	-28.74	2.87	457.62	3,043.42	3,002.37	41.05	74.145		
10,600.00	7,763.63	6,978.42	6,986.18	58.53	13.96	-28.74	2.87	457.62	3,138.58	3,096.48	42.09	74.560		
10,700.00	7,761.79	6,978.42	6,986.18	60.31	13.96	-28.74	2.87	457.62	3,234.03	3,190.89	43.15	74.955		
10,800.00	7,759.95	6,978.42	6,986.18	62.09	13.96	-28.74	2.87	457.62	3,329.75	3,285.55	44.20	75.333		
10,900.00	7,758.10	6,978.42	6,986.18	63.88	13.96	-28.74	2.87	457.62	3,425.72	3,380.46	45.26	75.694		
11,000.00	7,756.26	6,978.42	6,986.18	65.68	13.96	-28.74	2.87	457.62	3,521.91	3,475.59	46.32	76.040		
11,100.00	7,754.41	6,978.42	6,986.18	67.48	13.96	-28.74	2.87	457.62	3,618.30	3,570.92	47.38	76.370		
11,200.00	7,752.57	6,978.42	6,986.18	69.28	13.96	-28.74	2.87	457.62	3,714.89	3,666.45	48.44	76.686		
11,300.00	7,750.73	6,978.42	6,986.18	71.08	13.96	-28.74	2.87	457.62	3,811.65	3,762.14	49.51	76.990		
11,400.00	7,748.88	6,978.42	6,986.18	72.89	13.96	-28.74	2.87	457.62	3,908.58	3,858.00	50.58	77.281		
11,500.00	7,747.04	6,978.42	6,986.18	74.70	13.96	-28.74	2.87	457.62	4,005.65	3,954.01	51.65	77.560		
11,600.00	7,745.20	6,978.42	6,986.18	76.51	13.96	-28.74	2.87	457.62	4,102.87	4,050.15	52.72	77.828		
11,700.00	7,743.35	6,978.42	6,986.18	78.32	13.96	-28.74	2.87	457.62	4,200.22	4,146.43	53.79	78.086		
11,800.00	7,741.51	6,978.42	6,986.18	80.14	13.96	-28.74	2.87	457.62	4,297.69	4,242.83	54.86	78.334		
11,900.00	7,739.67	6,978.42	6,986.18	81.96	13.96	-28.74	2.87	457.62	4,395.27	4,339.33	55.94	78.573		
12,000.00	7,737.82	6,978.42	6,986.18	83.78	13.96	-28.74	2.87	457.62	4,492.96	4,435.95	57.02	78.803		
12,100.00	7,735.98	6,978.42	6,986.18	85.60	13.96	-28.74	2.87	457.62	4,590.75	4,532.66	58.09	79.025		
12,200.00	7,734.14	6,978.42	6,986.18	87.42	13.96	-28.74	2.87	457.62	4,688.63	4,629.46	59.17	79.238		
12,300.00	7,732.29	6,978.42	6,986.18	89.25	13.96	-28.74	2.87	457.62	4,786.60	4,726.35	60.25	79.445		
12,370.13	7,731.00	6,978.42	6,986.18	90.53	13.96	-28.74	2.87	457.62	4,855.36	4,794.35	61.01	79.585		

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 6H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3201' + KB 26' @ 3227.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3201' + KB 26' @ 3227.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1 Draft 1	Offset TVD Reference:	Reference Datum

Offset Design Lone Tree Draw "13" State - 4H - OH - OH													Offset Site Error: 0.00 usft
Survey Program: 18-NS-GYRO-MS, 4369-LEAM MWD, 9572-Project													Offset Well Error: 0.00 usft
Reference	Vertical	Offset	Vertical	Reference	Offset	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	
0.00	0.00	0.00	22.00	0.00	0.00	89.11	40.88	2,640.95	2,641.36				
100.00	100.00	61.94	83.94	0.08	0.05	89.11	41.19	2,641.23	2,641.60	2,641.46	0.14	N/A	
200.00	200.00	156.86	178.86	0.31	0.23	89.10	41.49	2,641.91	2,642.32	2,641.79	0.54	4,927.853	
300.00	300.00	256.09	278.08	0.53	0.49	89.10	41.42	2,642.74	2,643.15	2,642.13	1.02	2,595.715	
400.00	400.00	356.65	378.64	0.76	0.75	89.10	41.40	2,643.56	2,643.97	2,642.46	1.51	1,753.520	
500.00	500.00	456.62	478.61	0.98	1.01	89.10	41.42	2,644.36	2,644.78	2,642.78	2.00	1,324.389	
600.00	600.00	557.03	579.01	1.21	1.28	89.11	41.28	2,645.18	2,645.58	2,643.10	2.48	1,064.982	
700.00	700.00	656.69	688.67	1.43	1.53	89.10	41.41	2,645.88	2,646.23	2,643.27	2.96	893.751	
800.00	800.00	797.04	819.02	1.66	1.66	89.09	42.13	2,645.54	2,645.95	2,642.63	3.31	798.418	
900.00	900.00	887.63	909.60	1.88	1.72	89.10	41.73	2,644.92	2,645.27	2,641.67	3.60	735.034	
933.84	933.84	911.87	933.84	1.96	1.75	89.10	41.52	2,644.88	2,645.21	2,641.50	3.71	713.896	
1,000.00	1,000.00	962.00	983.97	2.11	1.82	89.11	41.02	2,645.07	2,645.44	2,641.51	3.92	674.119	
1,100.00	1,100.00	1,067.00	1,088.96	2.33	2.04	89.13	40.17	2,645.62	2,645.95	2,641.58	4.37	605.107	
1,200.00	1,200.00	1,170.97	1,192.94	2.56	2.28	89.14	39.75	2,645.95	2,646.26	2,641.43	4.84	547.050	
1,300.00	1,300.00	1,269.94	1,291.90	2.78	2.53	89.14	39.51	2,646.25	2,646.55	2,641.25	5.31	498.859	
1,400.00	1,400.00	1,368.54	1,390.50	3.01	2.78	89.15	39.33	2,646.57	2,646.88	2,641.09	5.78	457.898	
1,500.00	1,500.00	1,466.68	1,488.63	3.23	3.02	89.16	39.03	2,646.97	2,647.28	2,641.03	6.25	423.315	
1,600.00	1,600.00	1,570.08	1,592.04	3.45	3.28	89.17	38.52	2,647.39	2,647.68	2,640.95	6.73	393.435	
1,700.00	1,700.00	1,676.99	1,698.95	3.68	3.51	89.18	37.92	2,647.58	2,647.85	2,640.66	7.19	368.287	
1,800.00	1,800.00	1,787.11	1,809.07	3.90	3.69	89.19	37.40	2,647.43	2,647.71	2,640.12	7.60	348.481	
1,900.00	1,900.00	1,889.98	1,911.93	4.13	3.78	89.19	37.25	2,647.02	2,647.30	2,639.39	7.91	334.551	
2,000.00	2,000.00	1,991.90	2,013.85	4.35	3.85	89.19	37.33	2,646.52	2,646.82	2,638.62	8.20	322.763	
2,100.00	2,100.00	2,094.57	2,116.52	4.58	3.93	89.19	37.43	2,645.93	2,646.25	2,637.74	8.50	311.142	
2,200.00	2,200.00	2,197.78	2,219.73	4.80	4.02	89.19	37.57	2,645.22	2,645.56	2,636.73	8.83	299.763	
2,300.00	2,300.00	2,298.46	2,320.40	5.03	4.13	89.18	37.81	2,644.43	2,644.78	2,635.62	9.16	288.881	
2,400.00	2,400.00	2,395.06	2,417.00	5.25	4.24	89.17	38.08	2,643.73	2,644.06	2,634.57	9.49	278.613	
2,500.00	2,500.00	2,492.69	2,514.63	5.48	4.36	89.17	38.40	2,643.17	2,643.49	2,633.65	9.84	268.721	
2,600.00	2,600.00	2,591.84	2,613.78	5.70	4.50	89.16	38.54	2,642.62	2,642.94	2,632.73	10.21	258.971	
2,700.00	2,700.00	2,693.70	2,715.64	5.93	4.67	89.16	38.53	2,642.09	2,642.42	2,631.82	10.59	249.409	
2,800.00	2,800.00	2,796.42	2,818.35	6.15	4.83	89.16	38.74	2,641.41	2,641.76	2,630.77	10.99	240.457	
2,900.00	2,900.00	2,905.56	2,927.49	6.38	5.02	89.15	39.15	2,640.50	2,640.93	2,629.53	11.39	231.791	
3,000.00	3,000.00	3,011.40	3,033.32	6.60	5.21	89.15	39.17	2,639.21	2,639.71	2,627.90	11.81	223.422	
3,100.00	3,100.00	3,104.95	3,126.86	6.83	5.40	89.16	38.85	2,638.10	2,638.53	2,626.30	12.23	215.774	
3,200.00	3,200.00	3,198.50	3,220.41	7.05	5.60	89.17	38.42	2,637.36	2,637.71	2,625.06	12.65	208.520	
3,300.00	3,300.00	3,292.05	3,313.96	7.28	5.78	89.16	38.51	2,636.74	2,637.06	2,624.00	13.06	201.983	
3,363.36	3,363.36	3,341.46	3,363.36	7.42	5.96	89.16	38.87	2,636.56	2,636.85	2,623.57	13.27	198.654 CC	
3,400.00	3,400.00	3,368.12	3,390.03	7.50	5.90	89.15	39.10	2,636.61	2,636.92	2,623.52	13.40	196.835	
3,500.00	3,500.00	3,464.96	3,486.86	7.73	6.03	89.13	39.92	2,637.13	2,637.46	2,623.71	13.75	191.751	
3,600.00	3,600.00	3,571.02	3,592.92	7.95	6.18	89.12	40.42	2,637.53	2,637.85	2,623.72	14.13	186.707	
3,700.00	3,700.00	3,671.55	3,693.44	8.17	6.33	89.12	40.67	2,637.79	2,638.11	2,623.61	14.50	181.913	
3,800.00	3,800.00	3,772.29	3,794.19	8.40	6.48	89.11	40.87	2,638.03	2,638.35	2,623.47	14.88	177.267	
3,900.00	3,900.00	3,876.70	3,898.60	8.62	6.66	89.11	41.13	2,638.17	2,638.49	2,623.21	15.28	172.660	
4,000.00	4,000.00	3,980.74	4,002.64	8.85	6.84	89.10	41.43	2,638.13	2,638.45	2,622.76	15.69	168.148	
4,100.00	4,100.00	4,083.15	4,105.04	9.07	7.03	89.09	41.78	2,637.98	2,638.31	2,622.20	16.11	163.797	
4,200.00	4,200.00	4,185.59	4,207.48	9.30	7.23	89.08	42.16	2,637.72	2,638.07	2,621.54	16.53	159.598	
4,300.00	4,300.00	4,287.92	4,309.81	9.52	7.43	89.08	42.50	2,637.38	2,637.75	2,620.79	16.96	155.556	
4,389.15	4,389.15	4,369.00	4,390.89	9.72	7.55	89.07	42.65	2,637.08	2,637.43	2,620.16	17.27	152.699	
4,400.00	4,400.00	4,369.00	4,390.89	9.75	7.55	89.07	42.65	2,637.08	2,637.44	2,620.15	17.30	152.484 ES	
4,500.00	4,500.00	4,398.39	4,420.28	9.97	7.55	89.08	42.34	2,637.49	2,638.03	2,621.51	17.52	150.606	
4,600.00	4,600.00	4,546.12	4,568.82	10.20	7.58	89.43	26.36	2,641.74	2,642.08	2,624.31	17.77	148.716	
4,700.00	4,700.00	4,592.00	4,611.46	10.42	7.59	89.66	15.86	2,642.68	2,644.21	2,626.21	18.01	146.844	

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 6H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3201' + KB 26' @ 3227.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3201' + KB 26' @ 3227.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1 Draft 1	Offset TVD Reference:	Reference Datum

Offset Design Lone Tree Draw "13" State - 4H - OH - OH														Offset Site Error:	0.00 usft
Survey Program: 18-NS-GYRO-MS, 4369-LEAM MWD, 9572-Project														Offset Well Error:	0.00 usft
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		
4,800.00	4,800.00	4,650.65	4,666.79	10.65	7.63	90.07	-3.32	2,645.09	2,648.44	2,630.17	18.27	144.932			
4,900.00	4,900.00	4,687.00	4,699.78	10.87	7.67	90.40	-18.45	2,647.08	2,654.71	2,636.17	18.54	143.182			
5,000.00	5,000.00	4,718.00	4,727.02	11.10	7.72	90.71	-33.06	2,649.36	2,663.59	2,644.78	18.82	141.558			
5,100.00	5,100.00	4,751.00	4,755.10	11.32	7.79	91.08	-50.10	2,652.43	2,675.23	2,656.12	19.11	139.980			
5,200.00	5,200.00	4,767.22	4,768.57	11.55	7.84	91.27	-58.85	2,654.26	2,689.74	2,670.36	19.38	138.786			
5,300.00	5,300.00	4,782.00	4,780.61	11.77	7.88	91.45	-67.32	2,656.17	2,707.31	2,687.66	19.65	137.809			
5,400.00	5,400.00	4,814.00	4,805.75	12.00	7.99	91.86	-86.54	2,660.85	2,727.78	2,707.80	19.98	136.541			
5,500.00	5,500.00	4,830.41	4,818.09	12.22	8.06	92.09	-97.02	2,663.50	2,751.12	2,730.85	20.27	135.727			
5,600.00	5,600.00	4,846.00	4,829.48	12.45	8.13	92.31	-107.33	2,666.16	2,777.34	2,756.79	20.56	135.100			
5,700.00	5,700.00	4,878.00	4,851.76	12.67	8.29	92.78	-129.55	2,671.97	2,806.37	2,785.43	20.94	134.037			
5,800.00	5,800.00	4,878.00	4,851.76	12.89	8.29	92.78	-129.55	2,671.97	2,838.20	2,817.03	21.16	134.117			
5,900.00	5,900.00	4,910.00	4,872.57	13.12	8.49	93.27	-153.01	2,678.30	2,872.68	2,851.12	21.57	133.194			
6,000.00	6,000.00	4,910.00	4,872.57	13.34	8.49	93.27	-153.01	2,678.30	2,909.95	2,888.16	21.79	133.530			
6,100.00	6,100.00	4,942.00	4,891.92	13.57	8.72	93.78	-177.58	2,685.05	2,949.66	2,927.44	22.22	132.731			
6,200.00	6,200.00	4,942.00	4,891.92	13.79	8.72	93.78	-177.58	2,685.05	2,992.01	2,969.56	22.45	133.289			
6,300.00	6,300.00	4,973.00	4,909.22	14.02	8.97	94.30	-202.34	2,692.02	3,036.80	3,013.90	22.90	132.634			
6,400.00	6,400.00	4,973.00	4,909.22	14.24	8.97	94.30	-202.34	2,692.02	3,083.88	3,060.76	23.12	133.381			
6,500.00	6,500.00	4,988.54	4,917.35	14.47	9.11	94.56	-215.07	2,695.66	3,133.31	3,109.84	23.47	133.509			
6,600.00	6,600.00	5,005.00	4,925.55	14.69	9.25	94.84	-228.81	2,699.51	3,184.88	3,161.06	23.82	133.689			
6,700.00	6,700.00	5,005.00	4,925.55	14.92	9.25	94.84	-228.81	2,699.51	3,238.57	3,214.52	24.05	134.672			
6,800.00	6,800.00	5,037.00	4,940.36	15.14	9.57	95.41	-256.15	2,707.06	3,294.25	3,269.70	24.55	134.207			
6,900.00	6,900.00	5,037.00	4,940.36	15.37	9.57	95.41	-256.15	2,707.06	3,351.71	3,326.94	24.77	135.309			
7,000.00	7,000.00	5,037.00	4,940.36	15.59	9.57	95.41	-256.15	2,707.06	3,411.15	3,386.15	25.00	136.470			
7,100.00	7,100.00	5,055.13	4,948.10	15.82	9.76	95.73	-271.96	2,711.42	3,472.23	3,446.84	25.39	136.764			
7,200.00	7,200.00	5,068.00	4,953.32	16.04	9.90	95.96	-283.30	2,714.52	3,535.03	3,509.30	25.73	137.381			
7,236.00	7,236.00	5,068.00	4,953.32	16.12	9.90	95.96	-283.30	2,714.52	3,558.02	3,532.21	25.81	137.841			
7,250.00	7,250.00	5,068.00	4,953.32	16.15	9.90	-78.74	-283.30	2,714.52	3,567.00	3,540.75	26.25	135.881			
7,300.00	7,299.87	5,068.00	4,953.32	16.23	9.90	-74.72	-283.30	2,714.52	3,598.86	3,572.57	26.29	136.910			
7,350.00	7,349.25	5,080.96	4,958.33	16.32	10.05	-70.68	-294.84	2,717.63	3,630.15	3,603.69	26.46	137.205			
7,400.00	7,397.77	5,099.00	4,964.88	16.41	10.26	-66.85	-311.11	2,721.88	3,660.78	3,634.13	26.65	137.373			
7,450.00	7,445.06	5,099.00	4,964.88	16.49	10.26	-63.53	-311.11	2,721.88	3,690.29	3,663.67	26.62	138.644			
7,500.00	7,490.76	5,099.00	4,964.88	16.58	10.26	-60.49	-311.11	2,721.88	3,718.66	3,692.12	26.54	140.123			
7,550.00	7,534.52	5,117.67	4,971.17	16.66	10.48	-57.58	-328.16	2,728.14	3,745.57	3,718.99	26.58	140.934			
7,600.00	7,576.00	5,131.00	4,975.38	16.77	10.64	-55.04	-340.46	2,729.07	3,770.86	3,744.36	26.50	142.290			
7,650.00	7,614.90	5,151.53	4,981.45	16.90	10.90	-52.77	-359.60	2,733.35	3,794.31	3,767.86	26.44	143.496			
7,700.00	7,650.92	5,163.00	4,984.63	17.06	11.04	-50.85	-370.39	2,735.59	3,815.70	3,789.44	26.26	145.303			
7,750.00	7,683.78	5,195.00	4,992.55	17.24	11.45	-49.11	-400.87	2,741.25	3,834.90	3,808.64	26.26	146.039			
7,800.00	7,713.23	5,195.00	4,992.55	17.46	11.45	-47.77	-400.87	2,741.25	3,851.82	3,825.86	25.96	148.373			
7,850.00	7,739.05	5,208.63	4,995.43	17.71	11.64	-46.61	-414.01	2,743.44	3,866.42	3,840.59	25.83	149.686			
7,900.00	7,761.04	5,227.00	4,998.72	18.00	11.89	-45.66	-431.86	2,746.27	3,878.71	3,852.90	25.81	150.286			
7,950.00	7,779.03	5,227.00	4,998.72	18.33	11.89	-44.96	-431.86	2,746.27	3,888.40	3,862.72	25.68	151.434			
8,000.00	7,792.89	5,227.00	4,998.72	18.70	11.89	-44.45	-431.86	2,746.27	3,895.67	3,870.02	25.65	151.892			
8,050.00	7,802.52	5,259.00	5,002.89	19.10	12.34	-44.12	-463.25	2,750.81	3,900.34	3,874.22	26.12	149.344			
8,100.00	7,807.83	5,259.00	5,002.89	19.54	12.34	-43.99	-463.25	2,750.81	3,902.26	3,875.91	26.35	148.085			
8,146.56	7,808.86	5,259.00	5,002.89	19.97	12.34	-44.02	-463.25	2,750.81	3,901.80	3,875.10	26.70	146.159			
8,200.00	7,807.88	5,272.64	5,004.04	20.51	12.54	-44.05	-476.73	2,752.62	3,900.24	3,872.99	27.25	143.104			
8,300.00	7,806.03	5,291.00	5,005.00	21.59	12.81	-44.07	-494.90	2,755.00	3,899.04	3,870.76	28.28	137.889			
8,307.89	7,805.89	5,291.00	5,005.00	21.68	12.81	-44.07	-494.90	2,755.00	3,899.03	3,870.68	28.34	137.563			
8,400.00	7,804.19	5,309.00	5,005.38	22.77	13.08	-44.09	-512.74	2,757.36	3,899.96	3,870.58	29.38	132.763			
8,500.00	7,802.35	5,338.14	5,005.56	24.04	13.52	-44.12	-541.60	2,761.45	3,902.83	3,872.14	30.69	127.174			

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 6H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3201' + KB 26' @ 3227.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3201' + KB 26' @ 3227.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1.Single User Db
Reference Design:	Plan #1 Draft 1	Offset TVD Reference:	Reference Datum

Offset Design Lone Tree Draw "13" State - 4H - OH - OH														Offset Site Error: 0.00 usft
Survey Program: 18-NS-GYRO-MS, 4369-LEAM MWD, 9572-Project														Offset Well Error: 0.00 usft
Reference	Vertical	Offset	Vertical	Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre	Between	Between	Minimum	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	(usft)	Tooface (")	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor	
8,600.00	7,800.50	5,373.00	5,005.48	25.39	14.05	-44.15	-576.04	2,766.82	3,907.40	3,875.26	32.13	121.594		
8,700.00	7,798.66	5,496.19	5,006.78	26.79	15.87	-44.32	-697.40	2,787.86	3,912.20	3,877.43	34.78	112.488		
8,800.00	7,796.81	5,562.28	5,007.65	28.25	16.90	-44.41	-762.42	2,799.66	3,917.45	3,880.68	36.76	106.556		
8,900.00	7,794.97	5,655.00	5,008.43	29.75	18.40	-44.54	-853.66	2,816.18	3,923.04	3,883.84	39.20	100.078		
9,000.00	7,793.13	5,737.23	5,009.93	31.29	19.70	-44.68	-934.34	2,831.97	3,928.97	3,887.45	41.52	94.629		
9,100.00	7,791.28	5,875.49	5,015.25	32.87	21.93	-44.85	-1,069.46	2,860.76	3,934.59	3,889.86	44.73	87.954		
9,200.00	7,789.44	5,944.00	5,016.65	34.47	23.07	-45.07	-1,136.67	2,873.93	3,940.41	3,893.44	46.97	83.891		
9,300.00	7,787.60	6,181.31	5,011.65	36.10	27.09	-45.19	-1,371.89	2,903.85	3,943.85	3,892.24	51.61	76.415		
9,400.00	7,785.75	6,241.28	5,010.03	37.74	28.09	-45.21	-1,431.47	2,910.55	3,947.19	3,893.48	53.70	73.501		
9,500.00	7,783.91	6,360.95	5,007.29	39.41	30.08	-45.26	-1,550.24	2,924.82	3,950.89	3,894.22	56.67	69.721		
9,600.00	7,782.07	6,461.15	5,007.32	41.10	31.77	-45.34	-1,649.55	2,938.10	3,953.87	3,894.46	59.41	66.549		
9,700.00	7,780.22	6,759.73	5,014.17	42.80	36.84	-45.64	-1,945.52	2,976.00	3,955.46	3,890.29	65.17	60.696		
9,800.00	7,778.38	6,864.86	5,011.99	44.51	38.64	-45.60	-2,050.50	2,980.56	3,953.55	3,885.62	67.92	58.205		
9,900.00	7,776.54	6,961.25	5,006.79	46.23	40.29	-45.51	-2,146.74	2,981.67	3,951.69	3,881.19	70.50	56.053		
10,000.00	7,774.69	7,161.00	4,999.08	47.96	43.57	-45.33	-2,346.33	2,982.83	3,948.10	3,873.75	74.34	53.106		
10,100.00	7,772.85	7,237.34	4,998.58	49.71	44.84	-45.30	-2,422.64	2,984.68	3,943.90	3,867.21	76.68	51.431		
10,200.00	7,771.01	7,316.02	4,999.31	51.46	46.17	-45.31	-2,501.20	2,988.79	3,940.50	3,861.38	79.11	49.808		
10,300.00	7,769.16	7,427.31	5,000.37	53.21	48.07	-45.32	-2,612.32	2,994.90	3,937.31	3,855.29	82.02	48.003		
10,400.00	7,767.32	7,603.99	5,002.83	54.98	51.07	-45.32	-2,788.84	3,001.84	3,932.54	3,846.72	85.82	45.826		
10,500.00	7,765.48	7,730.00	5,004.66	56.75	53.22	-45.30	-2,914.80	3,004.87	3,926.78	3,837.89	88.89	44.175		
10,600.00	7,763.63	7,778.81	5,005.69	58.53	54.05	-45.30	-2,963.57	3,006.55	3,921.32	3,830.40	90.92	43.129		
10,700.00	7,761.79	7,825.00	5,006.41	60.31	54.83	-45.31	-3,009.70	3,008.77	3,917.21	3,824.28	92.92	42.155		
10,800.00	7,759.95	7,908.35	5,007.45	62.09	56.26	-45.32	-3,092.90	3,013.56	3,913.98	3,818.51	95.47	40.998		
10,900.00	7,758.10	8,252.73	5,011.36	63.88	62.10	-45.22	-3,436.99	3,017.84	3,907.03	3,805.59	101.44	38.517		
11,000.00	7,756.26	8,382.03	5,010.15	65.68	64.26	-45.05	-3,566.07	3,010.49	3,897.16	3,792.85	104.31	37.362		
11,100.00	7,754.41	8,465.37	5,010.26	67.48	65.64	-44.97	-3,649.32	3,006.62	3,887.37	3,780.71	106.66	36.445		
11,200.00	7,752.57	8,534.80	5,011.80	69.28	66.81	-44.93	-3,718.72	3,005.50	3,878.16	3,769.24	108.92	35.605		
11,300.00	7,750.73	8,583.00	5,013.78	71.08	67.62	-44.93	-3,766.87	3,005.99	3,869.88	3,758.94	110.94	34.882		
11,400.00	7,748.88	8,654.80	5,016.74	72.89	68.84	-44.94	-3,838.58	3,007.92	3,862.55	3,749.23	113.32	34.086		
11,500.00	7,747.04	8,713.65	5,018.61	74.70	69.85	-44.95	-3,897.37	3,009.98	3,856.35	3,740.84	115.52	33.383		
11,600.00	7,745.20	8,773.00	5,019.47	76.51	70.87	-44.94	-3,956.68	3,011.90	3,851.19	3,733.48	117.71	32.718		
11,700.00	7,743.35	8,845.46	5,019.39	78.32	72.12	-44.93	-4,029.11	3,014.01	3,846.91	3,726.84	120.07	32.039		
11,800.00	7,741.51	8,915.67	5,018.41	80.14	73.34	-44.89	-4,099.28	3,015.89	3,843.38	3,721.00	122.38	31.405		
11,900.00	7,739.67	8,985.80	5,016.56	81.96	74.56	-44.85	-4,169.36	3,017.69	3,840.64	3,715.96	124.68	30.805		
12,000.00	7,737.82	9,057.34	5,014.90	83.78	75.80	-44.83	-4,240.83	3,020.50	3,838.65	3,711.64	127.01	30.223		
12,100.00	7,735.98	9,171.81	5,012.29	85.60	77.79	-44.78	-4,355.17	3,025.25	3,836.77	3,706.85	129.93	29.530		
12,200.00	7,734.14	9,264.99	5,009.73	87.42	79.41	-44.74	-4,448.25	3,028.65	3,834.88	3,702.34	132.54	28.933		
12,300.00	7,732.29	9,363.99	5,006.91	89.25	81.14	-44.69	-4,547.15	3,032.26	3,833.07	3,697.84	135.23	28.344		
12,370.13	7,731.00	9,431.34	5,004.94	90.53	82.31	-44.66	-4,614.43	3,034.72	3,831.84	3,694.75	137.09	27.952 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 6H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3201' + KB 26' @ 3227.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3201' + KB 26' @ 3227.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1 Draft 1	Offset TVD Reference:	Reference Datum

Offset Design Lone Tree Draw "13" State - 4H - Pilot - Pilot													Offset Site Error:	0.00 usft
Survey Program: 18-NS-GYRO-MS													Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.00	0.00	0.00	22.00	0.00	0.00	89.11	40.88	2,640.95	2,641.36					
100.00	100.00	61.94	83.94	0.08	0.05	89.11	41.19	2,641.23	2,641.60	2,641.46	0.14	N/A		
200.00	200.00	156.86	178.86	0.31	0.23	89.10	41.49	2,641.91	2,642.32	2,641.79	0.54	4,927.911		
300.00	300.00	256.09	278.08	0.53	0.49	89.10	41.42	2,642.74	2,643.15	2,642.13	1.02	2,595.711		
400.00	400.00	356.55	378.64	0.76	0.75	89.10	41.40	2,643.56	2,643.97	2,642.46	1.51	1,753.518		
500.00	500.00	456.62	478.61	0.98	1.01	89.10	41.42	2,644.36	2,644.78	2,642.78	2.00	1,324.388		
600.00	600.00	557.03	579.01	1.21	1.28	89.11	41.28	2,645.18	2,645.58	2,643.10	2.48	1,064.982		
700.00	700.00	656.59	688.67	1.43	1.53	89.10	41.41	2,645.88	2,646.23	2,643.27	2.96	893.750		
800.00	800.00	757.04	819.02	1.66	1.66	89.09	42.13	2,645.54	2,645.95	2,642.63	3.31	798.417		
900.00	900.00	857.63	909.60	1.88	1.72	89.10	41.73	2,644.92	2,645.27	2,641.67	3.60	735.033		
933.84	933.84	911.87	933.84	1.96	1.75	89.10	41.52	2,644.88	2,645.21	2,641.50	3.71	713.895		
1,000.00	1,000.00	962.00	983.97	2.11	1.82	89.11	41.02	2,645.07	2,645.44	2,641.51	3.92	674.119		
1,100.00	1,100.00	1,067.00	1,088.96	2.33	2.04	89.13	40.17	2,645.62	2,645.95	2,641.58	4.37	605.107		
1,200.00	1,200.00	1,170.97	1,192.94	2.56	2.28	89.14	39.75	2,645.95	2,646.26	2,641.43	4.84	547.050		
1,300.00	1,300.00	1,269.94	1,291.90	2.78	2.53	89.14	39.51	2,646.25	2,646.55	2,641.25	5.31	498.859		
1,400.00	1,400.00	1,368.54	1,390.50	3.01	2.78	89.15	39.33	2,646.57	2,646.88	2,641.09	5.78	457.899		
1,500.00	1,500.00	1,466.68	1,488.63	3.23	3.02	89.16	39.03	2,646.97	2,647.28	2,641.03	6.25	423.316		
1,600.00	1,600.00	1,570.08	1,592.04	3.45	3.28	89.17	38.52	2,647.39	2,647.68	2,640.95	6.73	393.436		
1,700.00	1,700.00	1,676.98	1,698.95	3.68	3.51	89.18	37.92	2,647.58	2,647.85	2,640.66	7.19	368.288		
1,800.00	1,800.00	1,787.11	1,809.07	3.90	3.69	89.19	37.40	2,647.43	2,647.71	2,640.12	7.60	348.482		
1,900.00	1,900.00	1,888.98	1,911.93	4.13	3.78	89.19	37.25	2,647.02	2,647.30	2,639.39	7.91	334.552		
2,000.00	2,000.00	1,991.90	2,013.85	4.35	3.85	89.19	37.33	2,646.52	2,646.82	2,638.62	8.20	322.763		
2,100.00	2,100.00	2,094.57	2,116.52	4.58	3.93	89.19	37.43	2,645.93	2,646.25	2,637.74	8.50	311.142		
2,200.00	2,200.00	2,197.78	2,219.73	4.80	4.02	89.19	37.57	2,645.22	2,645.56	2,636.73	8.83	299.763		
2,300.00	2,300.00	2,298.46	2,320.40	5.03	4.13	89.18	37.81	2,644.43	2,644.78	2,635.62	9.16	288.881		
2,400.00	2,400.00	2,395.06	2,417.00	5.25	4.24	89.17	38.08	2,643.73	2,644.06	2,634.57	9.48	278.613		
2,500.00	2,500.00	2,492.69	2,514.63	5.48	4.36	89.17	38.40	2,643.17	2,643.49	2,633.65	9.84	268.721		
2,600.00	2,600.00	2,591.84	2,613.78	5.70	4.50	89.16	38.54	2,642.62	2,642.94	2,632.73	10.21	258.971		
2,700.00	2,700.00	2,693.70	2,715.64	5.93	4.67	89.16	38.53	2,642.09	2,642.42	2,631.82	10.59	249.409		
2,800.00	2,800.00	2,796.42	2,818.35	6.15	4.83	89.16	38.74	2,641.41	2,641.76	2,630.77	10.99	240.457		
2,900.00	2,900.00	2,905.56	2,927.49	6.38	5.02	89.15	39.15	2,640.50	2,640.93	2,629.53	11.39	231.791		
3,000.00	3,000.00	3,011.40	3,033.32	6.60	5.21	89.15	39.17	2,639.21	2,639.71	2,627.90	11.81	223.422		
3,100.00	3,100.00	3,104.95	3,126.86	6.83	5.40	89.16	38.85	2,638.10	2,638.53	2,626.30	12.23	215.774		
3,200.00	3,200.00	3,198.50	3,220.41	7.05	5.60	89.17	38.42	2,637.36	2,637.71	2,625.06	12.65	208.520		
3,300.00	3,300.00	3,292.05	3,313.96	7.28	5.78	89.16	38.51	2,636.74	2,637.06	2,624.00	13.06	201.983		
3,363.36	3,363.36	3,341.46	3,363.36	7.42	5.86	89.16	38.87	2,636.56	2,636.85	2,623.57	13.27	198.654		
3,400.00	3,400.00	3,368.12	3,390.03	7.50	5.90	89.15	39.10	2,636.61	2,636.92	2,623.52	13.40	196.835		
3,500.00	3,500.00	3,464.96	3,486.86	7.73	6.03	89.13	39.92	2,637.13	2,637.46	2,623.71	13.75	191.751		
3,600.00	3,600.00	3,571.02	3,592.92	7.95	6.18	89.12	40.42	2,637.53	2,637.85	2,623.72	14.13	186.707		
3,700.00	3,700.00	3,671.55	3,693.44	8.17	6.33	89.12	40.67	2,637.79	2,638.11	2,623.61	14.50	181.913		
3,800.00	3,800.00	3,772.28	3,794.18	8.40	6.48	89.11	40.87	2,638.03	2,638.35	2,623.47	14.88	177.267		
3,900.00	3,900.00	3,876.70	3,898.60	8.62	6.66	89.11	41.13	2,638.17	2,638.49	2,623.21	15.28	172.660		
4,000.00	4,000.00	3,980.74	4,002.64	8.85	6.84	89.10	41.43	2,638.13	2,638.45	2,622.76	15.69	168.148		
4,100.00	4,100.00	4,083.15	4,105.04	9.07	7.03	89.09	41.78	2,637.98	2,638.31	2,622.20	16.11	163.797		
4,200.00	4,200.00	4,185.59	4,207.48	9.30	7.23	89.08	42.16	2,637.72	2,638.07	2,621.54	16.53	159.598		
4,300.00	4,300.00	4,287.92	4,309.81	9.52	7.43	89.08	42.50	2,637.38	2,637.75	2,620.79	16.96	155.556		
4,400.00	4,400.00	4,394.78	4,416.67	9.75	7.65	89.07	42.74	2,636.87	2,637.27	2,619.87	17.40	151.605		
4,500.00	4,500.00	4,499.51	4,521.50	9.97	7.85	89.07	42.66	2,636.10	2,636.53	2,618.71	17.83	147.900		
4,600.00	4,600.00	4,604.84	4,626.72	10.20	8.06	89.08	42.44	2,635.14	2,635.62	2,617.36	18.26	144.344		
4,700.00	4,700.00	4,706.38	4,728.26	10.42	8.27	89.07	42.58	2,634.07	2,634.56	2,615.87	18.70	140.922		
4,800.00	4,800.00	4,802.64	4,824.51	10.65	8.48	89.07	42.94	2,633.10	2,633.56	2,614.43	19.13	137.700		

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 6H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3201' + KB 26' @ 3227.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3201' + KB 26' @ 3227.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1 Draft 1	Offset TVD Reference:	Reference Datum

Offset Design Lone Tree Draw "13" State - 4H - Pilot - Pilot												Offset Site Error:	0.00 usft
Survey Program: 18-NS-GYRO-MS												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Tooface (")	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)					
4,900.00	4,900.00	4,895.59	4,917.46	10.87	8.68	89.06	43.38	2,632.30	2,632.72	2,613.17	19.55	134.675	
4,983.15	4,983.15	4,961.29	4,983.16	11.06	8.81	89.05	43.76	2,632.08	2,632.44	2,612.58	19.87	132.504	CC
5,000.00	5,000.00	4,975.95	4,997.82	11.10	8.84	89.05	43.85	2,632.09	2,632.45	2,612.52	19.93	132.058	
5,100.00	5,100.00	5,069.50	5,091.36	11.32	8.99	89.04	44.19	2,632.34	2,632.72	2,612.42	20.31	129.648	
5,200.00	5,200.00	5,163.05	5,184.91	11.55	9.11	89.04	44.18	2,632.87	2,633.29	2,612.63	20.66	127.486	
5,300.00	5,300.00	5,251.62	5,273.48	11.77	9.23	89.04	43.98	2,633.65	2,634.15	2,613.16	21.00	125.450	
5,400.00	5,400.00	5,358.39	5,380.24	12.00	9.38	89.04	43.96	2,634.62	2,635.06	2,613.68	21.38	123.260	
5,500.00	5,500.00	5,474.32	5,496.17	12.22	9.59	89.03	44.50	2,635.10	2,635.48	2,613.67	21.81	120.851	
5,600.00	5,600.00	5,584.13	5,605.98	12.45	9.81	89.02	45.08	2,635.04	2,635.43	2,613.18	22.25	118.436	
5,700.00	5,700.00	5,684.77	5,706.62	12.67	10.02	89.01	45.47	2,634.72	2,635.12	2,612.44	22.69	116.149	
5,800.00	5,800.00	5,780.04	5,801.89	12.89	10.22	89.00	45.84	2,634.57	2,634.97	2,611.86	23.11	114.006	
5,842.57	5,842.57	5,820.71	5,842.56	12.99	10.30	89.00	45.98	2,634.55	2,634.95	2,611.66	23.29	113.123	
5,900.00	5,900.00	5,874.69	5,896.54	13.12	10.40	89.00	46.11	2,634.58	2,634.99	2,611.47	23.52	112.032	
6,000.00	6,000.00	5,975.18	5,997.03	13.34	10.56	89.00	46.15	2,634.75	2,635.16	2,611.26	23.90	110.248	
6,100.00	6,100.00	6,073.47	6,095.31	13.57	10.69	89.00	45.89	2,634.87	2,635.27	2,611.01	24.26	108.631	
6,200.00	6,200.00	6,173.26	6,195.10	13.79	10.83	89.02	45.01	2,635.08	2,635.47	2,610.85	24.62	107.051	
6,300.00	6,300.00	6,268.61	6,290.45	14.02	10.96	89.05	43.77	2,635.35	2,635.73	2,610.75	24.98	105.524	ES
6,400.00	6,400.00	6,363.84	6,385.67	14.24	11.10	89.07	42.64	2,635.80	2,636.18	2,610.84	25.34	104.037	
6,500.00	6,500.00	6,449.52	6,471.34	14.47	11.22	89.09	41.71	2,636.48	2,636.97	2,611.28	25.69	102.647	
6,600.00	6,600.00	6,533.16	6,554.97	14.69	11.35	89.11	40.90	2,637.66	2,638.37	2,612.32	26.04	101.313	
6,700.00	6,700.00	6,629.29	6,651.08	14.92	11.50	89.13	40.19	2,639.48	2,640.24	2,613.82	26.42	99.943	
6,800.00	6,800.00	6,734.81	6,756.57	15.14	11.67	89.15	39.24	2,641.35	2,641.99	2,615.18	26.81	98.540	
6,900.00	6,900.00	6,835.10	6,856.85	15.37	11.83	89.17	38.47	2,642.98	2,643.61	2,616.41	27.20	97.186	
7,000.00	7,000.00	6,940.50	6,962.24	15.59	12.02	89.17	38.50	2,644.56	2,645.11	2,617.50	27.61	95.805	
7,100.00	7,100.00	7,023.77	7,045.49	15.82	12.17	89.16	38.86	2,645.97	2,646.81	2,618.83	27.98	94.583	
7,200.00	7,200.00	7,104.44	7,126.14	16.04	12.31	89.15	39.23	2,647.92	2,649.24	2,620.88	28.36	93.430	
7,236.00	7,236.00	7,127.60	7,149.29	16.12	12.36	89.15	39.33	2,648.58	2,650.29	2,621.82	28.48	93.063	
7,250.00	7,250.00	7,144.52	7,166.21	16.15	12.39	-86.66	39.38	2,649.10	2,650.71	2,622.18	28.54	92.888	
7,300.00	7,299.87	7,184.22	7,205.88	16.23	12.46	-86.57	39.42	2,650.44	2,652.19	2,623.50	28.69	92.444	
7,350.00	7,349.25	7,221.15	7,242.78	16.32	12.53	-86.55	39.33	2,651.81	2,653.61	2,624.78	28.84	92.026	
7,400.00	7,397.77	7,265.06	7,286.66	16.41	12.61	-86.63	39.04	2,653.59	2,654.96	2,625.97	28.99	91.571	
7,450.00	7,445.06	7,305.52	7,327.07	16.49	12.68	-86.78	38.55	2,655.35	2,656.26	2,627.11	29.15	91.133	
7,500.00	7,490.76	7,348.44	7,369.94	16.58	12.76	-87.01	37.89	2,657.31	2,657.52	2,628.21	29.31	90.664	
7,550.00	7,534.52	7,390.66	7,412.12	16.66	12.84	-87.31	37.27	2,659.27	2,658.77	2,629.29	29.49	90.171	
7,600.00	7,576.00	7,430.50	7,451.90	16.77	12.91	-87.65	36.72	2,661.14	2,660.09	2,630.42	29.67	89.652	
7,650.00	7,614.90	7,467.68	7,489.04	16.90	12.98	-87.99	36.27	2,662.92	2,661.58	2,631.70	29.87	89.098	
7,700.00	7,650.92	7,502.27	7,523.59	17.06	13.04	-88.32	35.89	2,664.60	2,663.34	2,633.24	30.09	88.503	
7,750.00	7,683.78	7,552.53	7,573.79	17.24	13.14	-88.93	35.37	2,666.89	2,665.36	2,634.98	30.38	87.748	
7,800.00	7,713.23	7,597.65	7,618.88	17.46	13.23	-89.47	34.89	2,668.68	2,667.66	2,636.98	30.68	86.955	
7,850.00	7,739.05	7,636.35	7,657.55	17.71	13.30	-89.90	34.48	2,670.01	2,670.41	2,639.41	31.01	86.127	
7,900.00	7,761.04	7,669.38	7,690.57	18.00	13.36	-90.20	34.15	2,671.00	2,673.76	2,642.40	31.36	85.264	
7,950.00	7,779.03	7,694.21	7,715.39	18.33	13.41	-90.28	33.91	2,671.66	2,677.82	2,646.09	31.73	84.381	
8,000.00	7,792.89	7,708.91	7,730.08	18.70	13.44	-90.10	33.77	2,672.04	2,682.71	2,650.58	32.13	83.492	
8,050.00	7,802.52	7,719.29	7,740.45	19.10	13.46	-89.73	33.67	2,672.30	2,688.47	2,655.92	32.56	82.580	
8,100.00	7,807.83	7,725.27	7,746.44	19.54	13.47	-89.19	33.61	2,672.45	2,695.10	2,662.10	33.00	81.661	
8,146.56	7,808.86	7,726.86	7,748.02	19.97	13.47	-88.53	33.60	2,672.49	2,702.03	2,668.59	33.44	80.812	
8,200.00	7,807.88	7,726.47	7,747.63	20.51	13.47	-88.52	33.60	2,672.48	2,710.89	2,676.83	33.97	79.809	
8,300.00	7,806.03	7,725.74	7,746.90	21.59	13.47	-88.50	33.61	2,672.46	2,730.22	2,695.17	35.05	77.897	
8,400.00	7,804.19	7,725.01	7,746.18	22.77	13.47	-88.49	33.61	2,672.45	2,753.05	2,716.82	36.23	75.985	
8,500.00	7,802.35	7,724.29	7,745.45	24.04	13.47	-88.47	33.62	2,672.43	2,779.29	2,741.79	37.50	74.115	

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 6H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3201' + KB 26' @ 3227.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3201' + KB 26' @ 3227.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	EDM 5000:1 Single User Db
Reference Design:	Plan #1 Draft 1	Offset TVD Reference:	Reference Datum

Offset Design Lone Tree Draw "13" State - 4H - Pilot - Pilot													Offset Site Error: 0.00 usft
Survey Program: 18-NS-GYRO-MS													Offset Well Error: 0.00 usft
Reference	Offset		Semi Major Axis		Distance		Minimum Separation		Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
8,600.00	7,800.50	7,723.56	7,744.72	25.39	13.47	-88.46	33.63	2,672.41	2,808.85	2,770.01	38.84	72.317	
8,700.00	7,798.66	7,722.83	7,744.00	26.79	13.47	-88.44	33.64	2,672.39	2,841.62	2,801.38	40.24	70.611	
8,800.00	7,796.81	7,722.11	7,743.27	28.25	13.46	-88.42	33.64	2,672.37	2,877.50	2,835.80	41.70	69.006	
8,900.00	7,794.97	7,721.38	7,742.55	29.75	13.46	-88.41	33.65	2,672.35	2,916.36	2,873.16	43.20	67.509	
9,000.00	7,793.13	7,720.66	7,741.82	31.29	13.46	-88.39	33.66	2,672.34	2,958.09	2,913.35	44.74	66.120	
9,100.00	7,791.28	7,719.94	7,741.10	32.87	13.46	-88.38	33.66	2,672.32	3,002.58	2,956.27	46.31	64.837	
9,200.00	7,789.44	7,719.21	7,740.38	34.47	13.46	-88.36	33.67	2,672.30	3,049.70	3,001.79	47.91	63.655	
9,300.00	7,787.60	7,718.49	7,739.66	36.10	13.46	-88.35	33.68	2,672.28	3,099.32	3,049.79	49.53	62.569	
9,400.00	7,785.75	7,717.77	7,738.94	37.74	13.46	-88.33	33.68	2,672.26	3,151.34	3,100.16	51.18	61.572	
9,500.00	7,783.91	7,717.05	7,738.22	39.41	13.45	-88.32	33.69	2,672.24	3,205.64	3,152.79	52.85	60.660	
9,600.00	7,782.07	7,716.33	7,737.50	41.10	13.45	-88.30	33.70	2,672.23	3,262.10	3,207.57	54.53	59.824	
9,700.00	7,780.22	7,715.61	7,736.78	42.80	13.45	-88.28	33.70	2,672.21	3,320.61	3,264.39	56.22	59.060	
9,800.00	7,778.38	7,714.89	7,736.06	44.51	13.45	-88.27	33.71	2,672.19	3,381.07	3,323.13	57.93	58.361	
9,900.00	7,776.54	7,714.18	7,735.34	46.23	13.45	-88.25	33.72	2,672.17	3,443.37	3,383.71	59.65	57.722	
10,000.00	7,774.69	7,713.46	7,734.63	47.96	13.45	-88.24	33.72	2,672.15	3,507.41	3,446.02	61.38	57.138	
10,100.00	7,772.85	7,712.75	7,733.91	49.71	13.45	-88.22	33.73	2,672.13	3,573.10	3,509.98	63.12	56.604	
10,200.00	7,771.01	7,712.03	7,733.20	51.46	13.44	-88.21	33.74	2,672.12	3,640.36	3,575.49	64.87	56.115	
10,300.00	7,769.16	7,711.32	7,732.48	53.21	13.44	-88.19	33.74	2,672.10	3,709.09	3,642.47	66.63	55.668	
10,400.00	7,767.32	7,710.60	7,731.77	54.98	13.44	-88.18	33.75	2,672.08	3,779.22	3,710.83	68.39	55.259	
10,500.00	7,765.48	7,709.89	7,731.06	56.75	13.44	-88.16	33.76	2,672.06	3,850.67	3,780.51	70.16	54.885	
10,600.00	7,763.63	7,709.18	7,730.35	58.53	13.44	-88.15	33.77	2,672.04	3,923.37	3,851.44	71.93	54.542	
10,700.00	7,761.79	7,708.47	7,729.63	60.31	13.44	-88.13	33.77	2,672.03	3,997.25	3,923.54	73.71	54.228	
10,800.00	7,759.95	7,707.76	7,728.92	62.09	13.44	-88.12	33.78	2,672.01	4,072.24	3,996.74	75.49	53.941	
10,900.00	7,758.10	7,707.05	7,728.21	63.88	13.43	-88.10	33.79	2,671.99	4,148.29	4,071.00	77.28	53.677	
11,000.00	7,756.26	7,706.34	7,727.51	65.68	13.43	-88.09	33.79	2,671.97	4,225.33	4,146.26	79.07	53.435	
11,100.00	7,754.41	7,705.63	7,726.80	67.48	13.43	-88.07	33.80	2,671.95	4,303.32	4,222.45	80.87	53.214	
11,200.00	7,752.57	7,704.92	7,726.09	69.28	13.43	-88.06	33.81	2,671.93	4,382.20	4,299.54	82.67	53.010	
11,300.00	7,750.73	7,704.21	7,725.38	71.08	13.43	-88.04	33.81	2,671.92	4,461.93	4,377.47	84.47	52.824	
11,400.00	7,748.88	7,703.51	7,724.68	72.89	13.43	-88.02	33.82	2,671.90	4,542.47	4,456.19	86.27	52.653	
11,500.00	7,747.04	7,702.80	7,723.97	74.70	13.43	-88.01	33.83	2,671.88	4,623.76	4,535.68	88.08	52.496	
11,600.00	7,745.20	7,702.10	7,723.27	76.51	13.43	-87.99	33.83	2,671.86	4,705.77	4,615.88	89.89	52.352	
11,700.00	7,743.35	7,701.39	7,722.56	78.32	13.42	-87.98	33.84	2,671.84	4,788.47	4,696.77	91.70	52.219	
11,800.00	7,741.51	7,700.69	7,721.86	80.14	13.42	-87.96	33.85	2,671.83	4,871.81	4,778.30	93.51	52.098	
11,900.00	7,739.67	7,699.99	7,721.16	81.96	13.42	-87.95	33.85	2,671.81	4,955.77	4,860.45	95.33	51.987	
12,000.00	7,737.82	7,699.28	7,720.45	83.78	13.42	-87.93	33.86	2,671.79	5,040.32	4,943.18	97.14	51.885	
12,100.00	7,735.98	7,698.58	7,719.75	85.60	13.42	-87.92	33.87	2,671.77	5,125.42	5,026.46	98.96	51.791	
12,200.00	7,734.14	7,697.88	7,719.05	87.42	13.42	-87.90	33.87	2,671.76	5,211.06	5,110.27	100.78	51.705	
12,300.00	7,732.29	7,697.18	7,718.35	89.25	13.42	-87.89	33.88	2,671.74	5,297.19	5,194.59	102.61	51.627	
12,370.13	7,731.00	7,696.69	7,717.86	90.53	13.41	-87.88	33.88	2,671.72	5,367.89	5,254.01	103.88	51.576 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 6H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3201' + KB 26' @ 3227.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3201' + KB 26' @ 3227.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore:	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1 Draft 1	Offset TVD Reference:	Reference Datum

Offset Design Lone Tree Draw "13" State - 5H - OH - OH														Offset Site Error: 0.00 usft
Survey Program: 233-ISCWSA-GYRO-3, 4541-LEAM MWD+IGRF, 9585-Project														Offset Well Error: 0.00 usft
Reference	Vertical	Offset	Vertical	Reference	Offset	Highside	Offset Wellbore Centre	Between	Between	Minimum	Separation	Warning		
Measured Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Tooface (')	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor		
0.00	0.00	0.00	37.00	0.00	0.00	89.29	49.73	4,040.54	4,041.02					
100.00	100.00	70.80	107.80	0.08	0.06	89.29	49.79	4,040.47	4,040.79	4,040.65	0.14	N/A		
200.00	200.00	183.17	220.17	0.31	0.14	89.29	50.10	4,040.08	4,040.44	4,039.99	0.45	8,939.429		
300.00	300.00	294.11	331.11	0.53	0.29	89.28	50.50	4,039.36	4,039.80	4,038.97	0.82	4,908.682		
400.00	400.00	387.31	424.30	0.76	0.45	89.29	50.30	4,038.67	4,039.05	4,037.84	1.21	3,336.048		
500.00	500.00	478.42	515.41	0.98	0.61	89.29	49.90	4,038.24	4,038.58	4,036.99	1.59	2,532.431		
600.00	600.00	579.64	616.63	1.21	0.79	89.30	49.40	4,037.88	4,038.21	4,036.22	2.00	2,022.700		
700.00	700.00	681.90	718.88	1.43	0.97	89.31	48.75	4,037.43	4,037.77	4,035.37	2.40	1,682.368		
800.00	800.00	780.12	817.10	1.66	1.14	89.32	47.93	4,037.00	4,037.32	4,034.52	2.80	1,443.636		
900.00	900.00	874.30	911.28	1.88	1.31	89.33	47.35	4,036.74	4,037.03	4,033.84	3.19	1,267.118		
1,000.00	1,000.00	973.72	1,010.69	2.11	1.48	89.34	46.84	4,036.53	4,036.82	4,033.24	3.58	1,126.203		
1,100.00	1,100.00	1,079.96	1,116.93	2.33	1.67	89.34	46.46	4,036.24	4,036.54	4,032.55	4.00	1,010.386		
1,200.00	1,200.00	1,190.40	1,227.38	2.56	1.86	89.34	46.56	4,035.45	4,035.81	4,031.40	4.41	914.484		
1,300.00	1,300.00	1,276.34	1,313.31	2.78	2.01	89.33	46.87	4,035.05	4,035.34	4,030.56	4.79	842.730		
1,400.00	1,400.00	1,371.64	1,408.61	3.01	2.18	89.33	47.13	4,034.80	4,035.09	4,029.91	5.18	778.989		
1,500.00	1,500.00	1,484.07	1,521.04	3.23	2.37	89.33	47.48	4,034.48	4,034.81	4,029.21	5.60	720.320		
1,600.00	1,600.00	1,599.27	1,636.24	3.45	2.57	89.32	47.97	4,033.61	4,034.06	4,028.03	6.03	669.220		
1,700.00	1,700.00	1,678.73	1,715.69	3.68	2.71	89.32	48.05	4,033.07	4,033.39	4,027.00	6.39	631.015		
1,800.00	1,800.00	1,764.10	1,801.06	3.90	2.86	89.32	47.80	4,032.93	4,033.21	4,026.44	6.77	596.120		
1,809.17	1,809.17	1,772.20	1,809.17	3.92	2.88	89.32	47.76	4,032.93	4,033.21	4,026.41	6.80	593.074 CC		
1,900.00	1,900.00	1,857.56	1,894.52	4.13	3.03	89.33	47.32	4,033.00	4,033.28	4,026.13	7.15	563.836		
2,000.00	2,000.00	1,946.34	1,983.29	4.35	3.18	89.34	46.77	4,033.23	4,033.54	4,026.00	7.53	535.480		
2,100.00	2,100.00	2,053.32	2,090.27	4.58	3.37	89.35	45.88	4,033.68	4,033.95	4,026.00	7.94	507.816		
2,200.00	2,200.00	2,159.38	2,196.33	4.80	3.55	89.37	44.67	4,033.85	4,034.10	4,025.74	8.35	482.919		
2,300.00	2,300.00	2,263.08	2,300.03	5.03	3.73	89.37	44.19	4,033.89	4,034.14	4,025.38	8.76	460.559		
2,302.64	2,302.64	2,265.69	2,302.64	5.03	3.74	89.37	44.19	4,033.89	4,034.14	4,025.37	8.77	460.009		
2,400.00	2,400.00	2,362.29	2,399.24	5.25	3.91	89.38	43.99	4,033.91	4,034.15	4,024.99	9.16	440.558		
2,500.00	2,500.00	2,459.68	2,496.63	5.48	4.08	89.38	43.74	4,033.94	4,034.17	4,024.62	9.55	422.364		
2,600.00	2,600.00	2,554.05	2,591.00	5.70	4.24	89.39	43.12	4,034.12	4,034.36	4,024.42	9.94	405.840		
2,700.00	2,700.00	2,655.20	2,692.15	5.93	4.42	89.40	42.56	4,034.33	4,034.56	4,024.22	10.34	390.117		
2,800.00	2,800.00	2,760.34	2,797.28	6.15	4.60	89.41	41.90	4,034.51	4,034.72	4,023.97	10.75	375.318		
2,900.00	2,900.00	2,870.16	2,907.10	6.38	4.79	89.41	41.36	4,034.45	4,034.66	4,023.50	11.17	361.311		
3,000.00	3,000.00	2,965.26	3,002.19	6.60	4.96	89.41	41.28	4,034.31	4,034.52	4,022.96	11.56	349.074		
3,100.00	3,100.00	3,065.87	3,102.81	6.83	5.14	89.41	41.30	4,034.26	4,034.47	4,022.52	11.96	337.373		
3,200.00	3,200.00	3,165.55	3,202.49	7.05	5.31	89.41	41.69	4,034.01	4,034.23	4,021.87	12.36	326.457		
3,236.46	3,236.46	3,201.99	3,238.93	7.13	5.37	89.40	41.99	4,033.92	4,034.13	4,021.63	12.50	322.647		
3,300.00	3,300.00	3,257.20	3,294.13	7.28	5.47	89.40	42.47	4,034.04	4,034.27	4,021.52	12.74	316.599 ES		
3,400.00	3,400.00	3,330.03	3,366.96	7.50	5.60	89.39	42.96	4,034.53	4,034.89	4,021.80	13.09	308.145		
3,500.00	3,500.00	3,444.92	3,481.84	7.73	5.80	89.39	43.10	4,035.32	4,035.59	4,022.07	13.52	298.519		
3,600.00	3,600.00	3,542.43	3,579.35	7.95	5.97	89.39	42.80	4,035.79	4,036.07	4,022.16	13.91	290.090		
3,700.00	3,700.00	3,641.08	3,678.01	8.17	6.14	89.40	42.22	4,036.33	4,036.61	4,022.30	14.31	282.086		
3,800.00	3,800.00	3,740.34	3,777.26	8.40	6.31	89.41	41.64	4,036.84	4,037.12	4,022.42	14.71	274.491		
3,900.00	3,900.00	3,828.78	3,865.70	8.62	6.47	89.41	41.36	4,037.48	4,037.84	4,022.75	15.09	267.646		
4,000.00	4,000.00	3,929.17	3,966.08	8.85	6.64	89.41	41.29	4,038.41	4,038.77	4,023.28	15.49	260.799		
4,100.00	4,100.00	4,043.04	4,079.94	9.07	6.84	89.42	40.94	4,039.09	4,039.34	4,023.43	15.91	253.897		
4,200.00	4,200.00	4,152.50	4,189.40	9.30	7.03	89.43	40.46	4,039.55	4,039.77	4,023.45	16.33	247.458		
4,300.00	4,300.00	4,252.92	4,289.83	9.52	7.21	89.43	40.06	4,039.78	4,039.99	4,023.27	16.73	241.552		
4,400.00	4,400.00	4,358.63	4,395.53	9.75	7.39	89.44	39.57	4,039.99	4,040.19	4,023.05	17.13	235.793		
4,500.00	4,500.00	4,443.02	4,479.92	9.97	7.49	89.45	38.93	4,040.20	4,040.43	4,022.98	17.46	231.429		
4,600.00	4,600.00	4,521.12	4,558.00	10.20	7.56	89.47	37.27	4,040.81	4,041.20	4,023.45	17.75	227.635		
4,700.00	4,700.00	4,571.40	4,608.21	10.42	7.58	89.50	34.92	4,041.58	4,042.77	4,024.77	18.00	224.619		

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 6H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3201' + KB 26' @ 3227.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3201' + KB 26' @ 3227.00usft (Original Well Elev)
Site Error:	0:00 usft	North Reference:	Grid
Reference Well:	6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore:	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1-Draft 1	Offset TVD Reference:	Reference Datum

Offset Design Lone Tree Draw "13" State - 5H - OH - OH													Offset Site Error: 0.00 usft
Survey Program: 233-ISCWSA-GYRO-3, 4541-LEAM-MWD-HGRF, 9585-Project:													Offset Well Error: 0.00 usft
Reference	Offset	Semi-Major Axis		Distance		Minimum Separation		Separation Factor		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (")	Offset Wellbore Centre: N-S (usft)	E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,800.00	4,800.00	4,836.00	4,672.09	10.65	7.60	89.64	25.74	4,043.53	4,045.64	4,027.40	18.23	221.875	
4,900.00	4,900.00	4,683.00	4,717.59	10.87	7.62	89.80	14.19	4,045.42	4,049.55	4,031.07	18.48	219.162	
5,000.00	5,000.00	4,710.74	4,743.83	11.10	7.64	89.92	5.34	4,046.90	4,055.00	4,036.28	18.72	216.561	
5,100.00	5,100.00	4,750.64	4,780.51	11.32	7.68	90.14	-10.11	4,049.56	4,062.16	4,043.16	18.99	213.868	
5,200.00	5,200.00	4,811.70	4,833.45	11.55	7.80	90.57	-40.12	4,053.88	4,070.61	4,051.28	19.34	210.519	
5,300.00	5,300.00	5,063.02	5,001.04	11.77	9.39	93.15	-223.58	4,062.54	4,079.65	4,058.56	21.09	193.410	
5,400.00	5,400.00	5,110.73	5,017.66	12.00	9.95	93.78	-268.23	4,061.18	4,087.95	4,066.09	21.86	186.989	
5,500.00	5,500.00	5,130.66	5,022.36	12.22	10.21	94.05	-287.58	4,060.35	4,098.45	4,076.11	22.34	183.454	
5,600.00	5,600.00	5,141.00	5,024.18	12.45	10.34	94.19	-297.74	4,059.85	4,111.27	4,088.58	22.70	181.140	
5,700.00	5,700.00	5,141.00	5,024.18	12.67	10.34	94.19	-297.74	4,059.85	4,126.47	4,103.55	22.92	180.027	
5,800.00	5,800.00	5,141.00	5,024.18	12.89	10.34	94.19	-297.74	4,059.85	4,144.02	4,120.87	23.15	179.037	
5,900.00	5,900.00	5,141.00	5,024.18	13.12	10.34	94.19	-297.74	4,059.85	4,163.90	4,140.53	23.37	178.166	
6,000.00	6,000.00	5,141.00	5,024.18	13.34	10.34	94.19	-297.74	4,059.85	4,186.08	4,162.48	23.60	177.408	
6,100.00	6,100.00	5,141.00	5,024.18	13.57	10.34	94.19	-297.74	4,059.85	4,210.51	4,186.69	23.82	176.760	
6,200.00	6,200.00	5,141.00	5,024.18	13.79	10.34	94.19	-297.74	4,059.85	4,237.16	4,213.12	24.05	176.216	
6,300.00	6,300.00	5,141.00	5,024.18	14.02	10.34	94.19	-297.74	4,059.85	4,266.00	4,241.73	24.27	175.772	
6,400.00	6,400.00	5,141.00	5,024.18	14.24	10.34	94.19	-297.74	4,059.85	4,296.96	4,272.47	24.49	175.424	
6,500.00	6,500.00	5,141.00	5,024.18	14.47	10.34	94.19	-297.74	4,059.85	4,330.02	4,305.30	24.72	175.166	
6,600.00	6,600.00	5,141.00	5,024.18	14.69	10.34	94.19	-297.74	4,059.85	4,365.11	4,340.17	24.94	174.994	
6,700.00	6,700.00	5,162.57	5,026.81	14.92	10.65	94.50	-319.12	4,058.84	4,401.77	4,376.31	25.47	172.852	
6,800.00	6,800.00	5,163.60	5,026.90	15.14	10.66	94.51	-320.15	4,058.80	4,440.75	4,415.04	25.70	172.761	
6,900.00	6,900.00	5,164.56	5,026.98	15.37	10.67	94.52	-321.11	4,058.76	4,481.61	4,455.67	25.94	172.752	
7,000.00	7,000.00	5,165.45	5,027.05	15.59	10.69	94.54	-321.99	4,058.72	4,524.32	4,498.14	26.18	172.819	
7,100.00	7,100.00	5,166.27	5,027.11	15.82	10.70	94.55	-322.81	4,058.69	4,568.81	4,542.40	26.42	172.959	
7,200.00	7,200.00	5,188.00	5,027.96	16.04	11.00	94.85	-344.50	4,057.89	4,615.50	4,588.56	26.94	171.337	
7,236.00	7,236.00	5,188.00	5,027.96	16.12	11.00	94.85	-344.50	4,057.89	4,632.55	4,605.53	27.02	171.455	
7,250.00	7,250.00	5,188.00	5,027.96	16.15	11.00	-80.25	-344.50	4,057.89	4,639.22	4,612.12	27.10	171.201	
7,300.00	7,299.87	5,188.00	5,027.96	16.23	11.00	-77.62	-344.50	4,057.89	4,662.85	4,635.71	27.14	171.834	
7,350.00	7,349.25	5,188.00	5,027.96	16.32	11.00	-75.07	-344.50	4,057.89	4,686.07	4,658.91	27.15	172.586	
7,400.00	7,397.77	5,188.00	5,027.96	16.41	11.00	-72.63	-344.50	4,057.89	4,708.71	4,681.57	27.14	173.483	
7,450.00	7,445.06	5,188.00	5,027.96	16.49	11.00	-70.32	-344.50	4,057.89	4,730.61	4,703.51	27.10	174.545	
7,500.00	7,490.76	5,188.00	5,027.96	16.58	11.00	-68.16	-344.50	4,057.89	4,751.62	4,724.59	27.03	175.784	
7,550.00	7,534.52	5,188.00	5,027.96	16.66	11.00	-66.15	-344.50	4,057.89	4,771.59	4,744.66	26.93	177.193	
7,600.00	7,576.00	5,188.00	5,027.96	16.77	11.00	-64.31	-344.50	4,057.89	4,790.37	4,763.57	26.80	178.747	
7,650.00	7,614.90	5,188.00	5,027.96	16.90	11.00	-62.64	-344.50	4,057.89	4,807.85	4,781.20	26.65	180.398	
7,700.00	7,650.92	5,188.00	5,027.96	17.06	11.00	-61.15	-344.50	4,057.89	4,823.90	4,797.41	26.49	182.077	
7,750.00	7,683.78	5,188.00	5,027.96	17.24	11.00	-59.82	-344.50	4,057.89	4,838.42	4,812.08	26.34	183.690	
7,800.00	7,713.23	5,188.00	5,027.96	17.46	11.00	-58.68	-344.50	4,057.89	4,851.30	4,825.10	26.21	185.126	
7,850.00	7,739.05	5,217.66	5,027.87	17.71	11.45	-57.54	-374.15	4,057.02	4,862.18	4,835.72	26.46	183.771	
7,900.00	7,761.04	5,240.00	5,027.52	18.00	11.79	-56.66	-396.48	4,056.50	4,871.25	4,844.59	26.67	182.656	
7,950.00	7,779.03	5,240.00	5,027.52	18.33	11.79	-56.06	-396.48	4,056.50	4,878.30	4,851.61	26.68	182.828	
8,000.00	7,792.89	5,274.84	5,026.67	18.70	12.35	-55.53	-431.30	4,055.83	4,883.19	4,855.98	27.21	179.431	
8,050.00	7,802.52	5,300.70	5,025.86	19.10	12.77	-55.23	-457.15	4,055.39	4,885.90	4,858.18	27.73	176.217	
8,100.00	7,807.83	5,331.00	5,024.73	19.54	13.26	-55.14	-487.42	4,054.92	4,886.38	4,857.98	28.40	172.068	
8,146.56	7,808.86	5,353.86	5,023.76	19.97	13.65	-55.24	-510.26	4,054.61	4,884.79	4,855.72	29.07	168.025	
8,200.00	7,807.88	5,385.33	5,022.29	20.51	14.20	-55.22	-541.70	4,054.24	4,881.96	4,852.01	29.95	163.008	
8,300.00	7,806.03	5,447.14	5,019.14	21.59	15.25	-55.16	-603.42	4,053.81	4,877.29	4,845.58	31.70	153.853	
8,400.00	7,804.19	5,513.00	5,016.91	22.77	16.36	-55.13	-669.23	4,054.69	4,873.33	4,839.74	33.59	145.076	
8,500.00	7,802.35	5,569.61	5,016.05	24.04	17.30	-55.12	-725.80	4,056.73	4,870.17	4,834.73	35.44	137.434	
8,600.00	7,800.50	5,628.14	5,015.90	25.39	18.32	-55.12	-784.24	4,060.00	4,867.90	4,830.49	37.41	130.132	

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 6H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3201' + KB 26' @ 3227.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3201' + KB 26' @ 3227.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1 Draft 1	Offset TVD Reference:	Reference Datum

Offset Design												Offset Site Error:	0.00 usft
Lone Tree Draw "13" State - 5H - OH - OH												Offset Well Error:	0.00 usft
Survey Program: 233-ISCWSA-GYRO-3, 4541-LEAM MWD+IGRF, 9585-Project													
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)					
8,700.00	7,798.66	5,694.00	5,015.30	26.79	19.52	-55.12	-849.97	4,064.03	4,866.43	4,826.84	39.58	122.938	
8,800.00	7,796.81	5,785.00	5,015.08	28.25	21.19	-55.13	-840.73	4,070.54	4,865.43	4,823.22	42.21	115.264	
8,900.00	7,794.97	5,846.63	5,015.47	29.75	22.34	-55.15	-1,002.15	4,075.64	4,864.87	4,820.41	44.45	109.442	
8,919.52	7,794.61	5,858.88	5,015.50	30.05	22.57	-55.16	-1,014.36	4,076.68	4,864.84	4,819.95	44.90	108.351	
9,000.00	7,793.13	5,902.73	5,015.50	31.29	23.41	-55.17	-1,058.04	4,080.58	4,865.10	4,818.45	46.65	104.279	
9,100.00	7,791.28	6,213.12	5,022.39	32.87	29.23	-55.33	-1,366.99	4,108.74	4,865.65	4,812.70	52.95	91.895	
9,200.00	7,788.44	6,395.38	5,023.99	34.47	32.74	-55.33	-1,549.10	4,115.02	4,860.79	4,803.53	57.26	84.884	
9,300.00	7,787.60	6,473.34	5,022.55	36.10	34.27	-55.30	-1,627.03	4,115.86	4,855.73	4,795.82	59.91	81.047	
9,400.00	7,785.75	6,547.74	5,020.38	37.74	35.74	-55.26	-1,701.41	4,116.53	4,851.13	4,788.61	62.52	77.592	
9,500.00	7,783.91	6,622.00	5,019.53	39.41	37.18	-55.24	-1,775.62	4,118.73	4,847.18	4,782.04	65.14	74.410	
9,600.00	7,782.07	6,667.88	5,019.58	41.10	38.07	-55.24	-1,821.45	4,120.95	4,844.02	4,776.70	67.33	71.949	
9,700.00	7,780.22	6,785.31	5,020.14	42.80	40.34	-55.26	-1,938.66	4,128.02	4,841.80	4,771.10	70.70	68.482	
9,800.00	7,778.38	6,887.78	5,022.80	44.51	42.34	-55.30	-2,040.89	4,134.50	4,838.51	4,764.64	73.87	65.500	
9,900.00	7,776.54	7,047.76	5,026.70	46.23	45.49	-55.35	-2,200.58	4,143.26	4,834.51	4,756.48	78.03	61.957	
10,000.00	7,774.69	7,156.30	5,028.88	47.96	47.64	-55.37	-2,308.97	4,148.41	4,830.28	4,748.94	81.34	59.383	
10,100.00	7,772.85	7,294.84	5,030.40	49.71	50.38	-55.37	-2,447.42	4,152.99	4,825.37	4,740.23	85.14	56.674	
10,200.00	7,771.01	7,421.27	5,030.02	51.46	52.89	-55.34	-2,573.84	4,154.79	4,819.68	4,730.95	88.73	54.320	
10,300.00	7,769.16	7,506.23	5,028.87	53.21	54.58	-55.31	-2,658.80	4,155.26	4,813.91	4,722.29	91.62	52.539	
10,400.00	7,767.32	7,568.00	5,027.71	54.98	55.81	-55.28	-2,720.55	4,155.77	4,808.70	4,714.56	94.14	51.079	
10,500.00	7,765.48	7,631.38	5,026.59	56.75	57.06	-55.26	-2,783.91	4,156.94	4,804.27	4,707.59	96.68	49.691	
10,600.00	7,763.63	7,692.89	5,025.90	58.53	58.26	-55.24	-2,845.38	4,159.04	4,800.71	4,701.51	99.20	48.392	
10,700.00	7,761.79	7,760.78	5,025.75	60.31	59.59	-55.24	-2,913.19	4,162.38	4,797.87	4,696.03	101.84	47.111	
10,800.00	7,759.95	7,852.00	5,025.29	62.09	61.60	-55.24	-3,014.27	4,167.56	4,795.33	4,690.27	105.06	45.642	
10,900.00	7,758.10	7,954.87	5,025.37	63.88	63.44	-55.25	-3,106.99	4,172.76	4,792.89	4,684.73	108.15	44.316	
11,000.00	7,756.26	8,064.42	5,025.83	65.68	65.62	-55.26	-3,216.37	4,178.95	4,790.28	4,678.75	111.54	42.948	
11,100.00	7,754.41	8,144.41	5,025.37	67.48	67.23	-55.26	-3,296.24	4,183.20	4,787.96	4,673.53	114.43	41.842	
11,200.00	7,752.57	8,308.56	5,024.69	69.28	70.47	-55.25	-3,460.23	4,190.40	4,784.59	4,665.90	118.70	40.310	
11,300.00	7,750.73	8,456.07	5,025.45	71.08	73.37	-55.26	-3,607.61	4,196.34	4,780.63	4,657.84	122.69	38.965	
11,400.00	7,748.88	8,593.88	5,026.42	72.89	76.07	-55.25	-3,745.36	4,200.52	4,775.71	4,649.20	126.51	37.750	
11,500.00	7,747.04	8,725.80	5,027.71	74.70	78.66	-55.24	-3,877.24	4,203.46	4,769.97	4,639.73	130.23	36.627	
11,600.00	7,745.20	8,813.74	5,028.23	76.51	80.41	-55.23	-3,965.16	4,205.08	4,764.14	4,630.90	133.24	35.757	
11,700.00	7,743.35	8,920.14	5,028.31	78.32	82.53	-55.21	-4,071.55	4,206.73	4,758.37	4,621.83	136.55	34.848	
11,800.00	7,741.51	9,014.49	5,029.39	80.14	84.39	-55.20	-4,165.87	4,208.68	4,752.43	4,612.78	139.66	34.030	
11,900.00	7,739.67	9,081.00	5,030.40	81.96	85.69	-55.21	-4,232.34	4,210.70	4,747.06	4,604.75	142.31	33.357	
12,000.00	7,737.82	9,163.51	5,031.55	83.78	87.33	-55.21	-4,314.79	4,213.68	4,742.22	4,596.97	145.25	32.648	
12,100.00	7,735.98	9,266.17	5,032.79	85.60	89.38	-55.22	-4,417.38	4,217.43	4,737.54	4,588.99	148.55	31.892	
12,200.00	7,734.14	9,364.00	5,033.57	87.42	91.35	-55.22	-4,515.15	4,220.54	4,732.69	4,580.93	151.76	31.184	
12,300.00	7,732.29	9,443.61	5,034.26	89.25	92.94	-55.22	-4,594.71	4,223.33	4,728.11	4,573.45	154.66	30.570	
12,370.13	7,731.00	9,498.16	5,034.90	90.53	94.03	-55.22	-4,649.21	4,225.71	4,725.24	4,568.56	156.68	30.158 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 6H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3201' + KB 26' @ 3227.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3201' + KB 26' @ 3227.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1 Draft 1	Offset TVD Reference:	Reference Datum

Offset Design Lone Tree Draw "13" State - 7H - OH - OH													Offset Site Error:
Survey Program: 100-NS-GYRO-MS, 2922-LEAM-MWD-ADJ, 12456-Project													Offset Well Error:
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	0.00	15.00	0.00	0.00	88.79	34.80	1,642.51	1,642.95				
100.00	100.00	83.52	98.52	0.08	0.08	88.79	34.82	1,642.55	1,642.92	1,642.75	0.17	9,878.971	
200.00	200.00	188.41	203.41	0.31	0.29	88.78	35.02	1,642.52	1,642.89	1,642.30	0.59	2,765.938	
300.00	300.00	292.42	307.42	0.53	0.50	88.77	35.38	1,642.16	1,642.56	1,641.53	1.03	1,591.552	
400.00	400.00	399.10	414.10	0.76	0.69	88.77	35.30	1,641.47	1,641.91	1,640.46	1.45	1,130.968	
500.00	500.00	511.87	526.85	0.98	0.90	88.81	34.18	1,640.05	1,640.63	1,638.75	1.88	873.527	
600.00	600.00	613.69	628.64	1.21	1.11	88.87	32.45	1,638.33	1,638.90	1,636.59	2.31	708.791	
700.00	700.00	707.42	722.35	1.43	1.32	88.91	31.22	1,636.90	1,637.35	1,634.60	2.75	594.875	
800.00	800.00	805.99	820.91	1.66	1.57	88.93	30.52	1,635.63	1,636.05	1,632.82	3.22	507.706	
900.00	900.00	913.04	927.95	1.88	1.84	88.95	30.07	1,634.03	1,634.55	1,630.83	3.72	439.140	
1,000.00	1,000.00	1,016.52	1,031.41	2.11	2.11	88.95	29.81	1,632.10	1,632.67	1,628.46	4.21	387.356	
1,100.00	1,100.00	1,110.72	1,125.59	2.33	2.35	88.95	29.83	1,630.49	1,630.96	1,626.28	4.68	348.316	
1,200.00	1,200.00	1,219.72	1,234.57	2.56	2.63	88.97	29.31	1,628.61	1,629.24	1,624.05	5.19	314.062	
1,300.00	1,300.00	1,337.33	1,352.12	2.78	2.93	89.04	27.21	1,625.17	1,626.23	1,620.52	5.71	284.714	
1,400.00	1,400.00	1,428.89	1,443.60	3.01	3.16	89.13	24.63	1,622.53	1,623.31	1,617.14	6.16	263.415	
1,500.00	1,500.00	1,522.73	1,537.38	3.23	3.39	89.23	21.84	1,620.23	1,620.81	1,614.19	6.61	245.050	
1,600.00	1,600.00	1,618.93	1,633.51	3.45	3.62	89.33	19.05	1,618.23	1,618.69	1,611.62	7.07	228.910	
1,700.00	1,700.00	1,723.77	1,738.28	3.68	3.88	89.43	16.06	1,615.84	1,616.38	1,608.82	7.55	213.973	
1,800.00	1,800.00	1,819.17	1,833.62	3.90	4.12	89.52	13.43	1,613.80	1,614.20	1,606.19	8.02	201.352	
1,900.00	1,900.00	1,923.95	1,938.34	4.13	4.38	89.63	10.41	1,611.48	1,611.97	1,603.47	8.50	189.548	
2,000.00	2,000.00	2,031.15	2,045.44	4.35	4.65	89.75	7.07	1,608.77	1,609.43	1,600.43	9.00	178.786	
2,100.00	2,100.00	2,138.17	2,152.37	4.58	4.93	89.86	3.83	1,605.40	1,606.26	1,596.75	9.50	168.998	
2,200.00	2,200.00	2,231.62	2,245.73	4.80	5.18	89.96	1.19	1,602.49	1,603.14	1,593.17	9.97	160.744	
2,300.00	2,300.00	2,323.20	2,337.24	5.03	5.42	90.05	-1.48	1,600.20	1,600.63	1,590.20	10.43	153.394	
2,400.00	2,400.00	2,423.82	2,437.79	5.25	5.67	90.16	-4.52	1,597.78	1,598.24	1,587.32	10.92	146.382	
2,500.00	2,500.00	2,519.48	2,533.38	5.48	5.92	90.26	-7.26	1,595.67	1,596.04	1,584.65	11.39	140.134	
2,600.00	2,600.00	2,620.06	2,633.90	5.70	6.18	90.36	-10.06	1,593.53	1,593.93	1,582.05	11.87	134.240	
2,700.00	2,700.00	2,719.22	2,733.00	5.93	6.44	90.46	-12.70	1,591.41	1,591.80	1,579.45	12.36	128.830	
2,800.00	2,800.00	2,815.83	2,829.57	6.15	6.64	90.54	-15.00	1,589.51	1,589.86	1,577.08	12.78	124.409	
2,900.00	2,900.00	2,914.29	2,928.01	6.38	6.77	90.59	-16.28	1,587.72	1,588.05	1,574.91	13.13	120.916	
3,000.00	3,000.00	3,015.32	3,029.02	6.60	6.79	90.60	-16.71	1,585.90	1,586.28	1,572.88	13.38	118.582	
3,100.00	3,100.00	3,174.81	3,188.38	6.83	6.82	90.54	-14.94	1,580.32	1,582.86	1,569.23	13.63	116.115	
3,200.00	3,200.00	3,299.98	3,313.17	7.05	6.86	90.36	-9.79	1,572.06	1,576.16	1,562.27	13.89	113.446	
3,300.00	3,300.00	3,399.85	3,412.68	7.28	6.89	90.19	-5.06	1,564.92	1,568.98	1,554.83	14.15	110.852	
3,400.00	3,400.00	3,499.67	3,512.13	7.50	6.93	90.01	-0.36	1,557.77	1,561.80	1,547.38	14.42	108.313	
3,500.00	3,500.00	3,599.06	3,611.15	7.73	6.99	89.84	4.33	1,550.65	1,554.63	1,539.94	14.69	105.807	
3,600.00	3,600.00	3,698.74	3,710.47	7.95	7.05	89.66	9.06	1,543.52	1,547.50	1,532.52	14.98	103.338	
3,700.00	3,700.00	3,799.21	3,810.56	8.17	7.13	89.48	13.95	1,536.29	1,540.33	1,525.06	15.27	100.895	
3,800.00	3,800.00	3,898.25	3,909.22	8.40	7.22	89.29	18.82	1,529.16	1,533.17	1,517.60	15.56	98.510	
3,900.00	3,900.00	3,990.72	4,001.34	8.62	7.30	89.12	23.32	1,522.63	1,526.17	1,510.32	15.86	96.241	
4,000.00	4,000.00	4,080.07	4,090.41	8.85	7.38	88.94	27.95	1,517.10	1,520.04	1,503.89	16.15	94.101	
4,100.00	4,100.00	4,188.82	4,198.86	9.07	7.49	88.79	31.82	1,510.15	1,513.71	1,497.24	16.47	91.911	
4,200.00	4,200.00	4,277.82	4,287.63	9.30	7.58	88.69	34.38	1,504.37	1,507.31	1,490.54	16.77	89.870	
4,300.00	4,300.00	4,354.61	4,364.28	9.52	7.67	88.58	37.11	1,500.53	1,502.37	1,485.30	17.07	88.019	
4,400.00	4,400.00	4,452.11	4,461.62	9.75	7.77	88.43	40.95	1,496.35	1,498.18	1,480.79	17.39	86.146	
4,500.00	4,500.00	4,551.13	4,560.47	9.97	7.89	88.28	44.80	1,492.20	1,494.10	1,476.38	17.72	84.321	
4,600.00	4,600.00	4,650.11	4,659.29	10.20	8.01	88.13	48.63	1,488.11	1,490.09	1,472.04	18.05	82.545	
4,700.00	4,700.00	4,748.80	4,757.83	10.42	8.13	87.98	52.36	1,484.09	1,486.14	1,467.75	18.39	80.819	
4,800.00	4,800.00	4,847.04	4,855.93	10.65	8.25	87.83	55.99	1,480.21	1,482.33	1,463.60	18.73	79.148	
4,900.00	4,900.00	4,947.26	4,956.00	10.87	8.39	87.69	59.68	1,476.29	1,478.55	1,459.48	19.08	77.508	
5,000.00	5,000.00	5,045.82	5,054.42	11.10	8.52	87.54	63.24	1,472.41	1,474.77	1,455.35	19.42	75.923	

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 6H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3201' + KB 26' @ 3227.00usft (Original Well Elev)
Reference Site:	Lohe Tree Draw "13" State	MD Reference:	GE 3201' + KB 26' @ 3227.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1 Draft 1	Offset TVD Reference:	Reference Datum

Offset Design												Offset Site Error:	0.00 usft
Lone Tree Draw "13" State - 7H - OH - OH												Offset Well Error:	0.00 usft
Survey Program: 100-N8-GYRO-MS; 2922-LEAM MWD-ADJ; 12456-Project													
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	5,157.85	5,166.29	11.32	8.68	87.37	67.37	1,467.93	1,470.97	1,451.18	19.80	74.308	
5,200.00	5,200.00	5,269.59	5,277.75	11.55	8.85	87.16	72.55	1,462.03	1,465.90	1,445.72	20.18	72.655	
5,300.00	5,300.00	5,367.53	5,375.43	11.77	9.00	86.97	77.15	1,458.63	1,460.62	1,440.08	20.54	71.108	
5,400.00	5,400.00	5,467.72	5,475.38	12.00	9.16	86.78	81.60	1,451.23	1,455.47	1,434.56	20.91	69.606	
5,500.00	5,500.00	5,561.32	5,568.77	12.22	9.31	86.62	85.37	1,446.34	1,450.49	1,429.22	21.27	68.188	
5,600.00	5,600.00	5,659.31	5,666.58	12.45	9.47	86.47	89.02	1,441.55	1,445.83	1,424.19	21.64	66.804	
5,700.00	5,700.00	5,758.75	5,765.84	12.67	9.64	86.31	92.68	1,436.76	1,441.25	1,419.23	22.02	65.454	
5,800.00	5,800.00	5,855.00	5,861.93	12.89	9.79	86.17	95.90	1,432.33	1,436.87	1,414.48	22.39	64.171	
5,900.00	5,900.00	5,944.43	5,951.09	13.12	10.02	85.98	100.17	1,425.32	1,431.74	1,408.92	22.82	62.740	
6,000.00	6,000.00	6,105.33	6,111.57	13.34	10.24	85.78	104.43	1,416.08	1,424.30	1,401.06	23.24	61.281	
6,100.00	6,100.00	6,192.44	6,198.35	13.57	10.41	85.64	107.36	1,409.23	1,416.73	1,393.12	23.61	60.001	
6,200.00	6,200.00	6,285.22	6,290.84	13.79	10.59	85.47	111.22	1,402.93	1,410.26	1,386.27	23.99	58.778	
6,300.00	6,300.00	6,386.49	6,391.80	14.02	10.78	85.29	114.99	1,395.99	1,403.72	1,379.33	24.39	57.550	
6,400.00	6,400.00	6,472.35	6,477.38	14.24	10.95	85.11	118.99	1,390.30	1,397.52	1,372.75	24.77	56.427	
6,500.00	6,500.00	6,555.65	6,560.44	14.47	11.11	84.91	123.46	1,385.86	1,392.66	1,367.52	25.14	55.394	
6,600.00	6,600.00	6,647.14	6,651.73	14.69	11.28	84.72	127.82	1,381.84	1,388.70	1,363.17	25.53	54.397	
6,700.00	6,700.00	6,745.04	6,749.47	14.92	11.46	84.53	132.01	1,377.89	1,385.08	1,359.15	25.93	53.419	
6,800.00	6,800.00	6,842.59	6,846.86	15.14	11.64	84.35	135.99	1,374.05	1,381.56	1,355.23	26.33	52.475	
6,900.00	6,900.00	6,939.59	6,943.72	15.37	11.82	84.18	139.76	1,370.51	1,378.31	1,351.58	26.73	51.569	
7,000.00	7,000.00	7,033.49	7,037.51	15.59	12.00	84.04	142.85	1,367.32	1,375.27	1,348.15	27.12	50.709	
7,100.00	7,100.00	7,123.24	7,127.20	15.82	12.16	83.92	145.37	1,364.94	1,372.93	1,345.42	27.51	49.915	
7,200.00	7,200.00	7,216.53	7,220.45	16.04	12.33	83.82	147.56	1,363.14	1,371.26	1,343.36	27.90	49.158	
7,236.00	7,236.00	7,247.05	7,250.96	16.12	12.37	83.81	147.71	1,362.72	1,370.78	1,342.76	28.02	48.921	
7,250.00	7,250.00	7,258.42	7,262.32	16.15	12.38	-92.04	147.32	1,362.64	1,370.65	1,342.53	28.12	48.748	
7,290.68	7,290.59	7,291.43	7,295.23	16.22	12.43	-92.03	144.80	1,362.71	1,370.48	1,342.25	28.23	48.553	
7,300.00	7,299.87	7,298.99	7,302.74	16.23	12.44	-92.03	143.93	1,362.79	1,370.49	1,342.24	28.25	48.510	
7,350.00	7,349.25	7,342.82	7,345.91	16.32	12.49	-91.97	136.50	1,363.63	1,370.80	1,342.43	28.38	48.310	
7,400.00	7,397.77	7,428.84	7,427.00	16.41	12.53	-91.65	108.38	1,366.17	1,371.13	1,342.65	28.48	48.142	
7,450.00	7,445.06	7,527.81	7,513.49	16.49	12.58	-91.08	60.44	1,366.80	1,369.30	1,340.72	28.58	47.906	
7,500.00	7,490.76	7,601.58	7,572.27	16.56	12.63	-90.65	16.00	1,366.33	1,366.54	1,337.82	28.71	47.592	
7,550.00	7,534.52	7,674.03	7,622.55	16.66	12.72	-90.10	-36.06	1,365.21	1,362.82	1,333.92	28.90	47.149	
7,600.00	7,576.00	7,720.07	7,651.03	16.77	12.80	-89.87	-72.23	1,364.59	1,359.14	1,330.03	29.11	46.687	
7,650.00	7,614.90	7,863.53	7,723.75	16.90	13.31	-88.26	-195.53	1,360.00	1,355.05	1,325.27	29.78	45.501	
7,700.00	7,650.92	7,923.25	7,746.91	17.06	13.67	-87.95	-250.36	1,355.62	1,348.15	1,317.88	30.27	44.536	
7,750.00	7,683.78	7,959.00	7,756.75	17.24	13.92	-87.99	-284.61	1,353.11	1,341.31	1,310.63	30.69	43.712	
7,800.00	7,713.23	7,981.00	7,761.07	17.46	14.09	-88.20	-306.15	1,351.88	1,335.19	1,304.14	31.05	43.001	
7,850.00	7,739.05	8,000.64	7,763.91	17.71	14.24	-88.38	-325.57	1,351.17	1,330.08	1,298.63	31.45	42.298	
7,900.00	7,761.04	8,021.70	7,766.02	18.00	14.42	-88.47	-346.51	1,350.95	1,326.10	1,294.21	31.89	41.578	
7,950.00	7,779.03	8,055.70	7,767.62	18.33	14.71	-88.33	-380.47	1,351.05	1,322.89	1,290.38	32.50	40.702	
8,000.00	7,792.89	8,103.86	7,767.12	18.70	15.16	-88.02	-428.63	1,351.41	1,319.97	1,286.66	33.31	39.626	
8,050.00	7,802.52	8,159.42	7,765.78	19.10	15.70	-87.81	-484.17	1,351.59	1,316.84	1,282.60	34.24	38.455	
8,100.00	7,807.83	8,199.73	7,764.78	19.54	16.10	-87.89	-524.47	1,351.70	1,313.59	1,278.52	35.07	37.459	
8,146.56	7,808.86	8,233.77	7,764.47	19.97	16.44	-88.11	-558.50	1,352.14	1,310.87	1,275.04	35.83	36.583	
8,200.00	7,807.88	8,276.74	7,764.81	20.51	16.88	-88.16	-601.46	1,353.15	1,308.21	1,271.41	36.79	35.556	
8,300.00	7,806.03	8,384.68	7,766.24	21.59	18.03	-88.30	-709.36	1,355.63	1,303.16	1,264.13	39.03	33.388	
8,400.00	7,804.19	8,494.46	7,768.11	22.77	19.32	-88.47	-819.11	1,357.56	1,297.59	1,256.08	41.51	31.262	
8,500.00	7,802.35	8,595.06	7,769.99	24.04	20.61	-88.63	-919.69	1,358.45	1,291.14	1,247.06	44.07	29.296	
8,600.00	7,800.50	8,693.15	7,769.42	25.39	21.81	-88.67	-1,007.76	1,359.92	1,285.53	1,238.91	46.62	27.575	
8,700.00	7,798.66	8,798.54	7,769.35	26.79	23.40	-88.75	-1,123.22	1,362.11	1,280.22	1,230.59	49.63	25.794	
8,800.00	7,796.81	8,941.02	7,769.16	28.25	25.49	-88.85	-1,265.59	1,360.70	1,271.89	1,218.71	53.18	23.915	

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 6H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3201' + KB 26' @ 3227.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3201' + KB 26' @ 3227.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1 Draft 1	Offset TVD Reference:	Reference Datum

Offset Design Lone Tree Draw "13" State - 7H - OH - OH													Offset Site Error: 0.00 usft
Survey Program: 100-NS-GYRO-MS; 2922-LEAM.MWD-ADJ, 12456-Project													Offset Well Error: 0.00 usft
Reference	Vertical	Offset	Semi Major Axis	Reference	Offset	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation	Warning
Measured Depth (usft)	Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	(usft)	(usft)	Toothface (")	+N/S (usft)	+E/W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor	
8,900.00	7,794.97	9,042.50	7,769.92	29.75	26.98	-88.96	-1,367.04	1,358.13	1,262.09	1,205.91	56.18	22.467	
9,000.00	7,793.13	9,139.08	7,771.61	31.29	28.42	-89.11	-1,463.56	1,355.37	1,251.95	1,192.80	59.15	21.166	
9,100.00	7,791.28	9,212.00	7,772.29	32.87	29.53	-89.20	-1,536.47	1,354.48	1,243.41	1,181.58	61.84	20.109	
9,200.00	7,789.44	9,279.05	7,772.56	34.47	30.56	-89.27	-1,603.51	1,355.25	1,237.25	1,172.78	64.47	19.191	
9,300.00	7,787.60	9,354.73	7,772.11	36.10	31.74	-89.31	-1,679.13	1,357.86	1,233.41	1,166.12	67.29	18.330	
9,400.00	7,785.75	9,442.83	7,766.74	37.74	33.16	-89.14	-1,766.96	1,362.19	1,231.13	1,160.77	70.37	17.496	
9,500.00	7,783.91	9,543.32	7,759.73	39.41	34.79	-88.89	-1,867.07	1,367.36	1,229.15	1,155.47	73.67	16.684	
9,600.00	7,782.07	9,644.64	7,757.03	41.10	36.74	-88.87	-1,988.22	1,373.00	1,226.62	1,149.30	77.33	15.863	
9,700.00	7,780.22	9,783.10	7,757.20	42.80	38.66	-88.97	-2,106.61	1,376.14	1,221.98	1,141.02	80.96	15.094	
9,800.00	7,778.38	9,890.82	7,761.58	44.51	40.41	-89.27	-2,214.23	1,377.99	1,216.36	1,131.94	84.43	14.407	
9,900.00	7,776.54	9,990.48	7,764.74	46.23	42.06	-89.50	-2,313.84	1,379.28	1,210.36	1,122.55	87.81	13.784	
10,000.00	7,774.69	10,080.29	7,765.41	47.96	43.56	-89.61	-2,403.62	1,380.93	1,204.93	1,113.87	91.05	13.234	
10,100.00	7,772.85	10,175.09	7,766.61	49.71	45.12	-89.75	-2,498.38	1,383.30	1,200.16	1,105.80	94.36	12.718	
10,200.00	7,771.01	10,277.87	7,768.11	51.46	46.84	-89.91	-2,601.12	1,385.85	1,195.39	1,097.56	97.84	12.218	
10,300.00	7,769.16	10,377.69	7,766.60	53.21	48.52	-89.93	-2,700.90	1,388.24	1,190.54	1,089.25	101.29	11.754	
10,400.00	7,767.32	10,472.52	7,765.08	54.98	50.10	-89.94	-2,795.68	1,390.57	1,185.77	1,081.14	104.63	11.333	
10,500.00	7,765.48	10,583.83	7,764.69	56.75	51.94	-90.02	-2,906.94	1,393.92	1,181.62	1,073.37	108.25	10.916	
10,600.00	7,763.63	10,699.79	7,763.65	58.53	53.88	-90.07	-3,022.90	1,394.65	1,174.92	1,062.95	111.97	10.493	
10,700.00	7,761.79	10,837.99	7,760.67	60.31	56.21	-90.05	-3,161.03	1,393.11	1,166.59	1,050.52	116.07	10.051	
10,800.00	7,759.95	10,939.53	7,756.64	62.09	57.94	-89.94	-3,262.45	1,390.24	1,156.54	1,036.96	119.58	9.672	
10,900.00	7,758.10	11,039.14	7,753.00	63.88	59.62	-89.85	-3,361.84	1,387.04	1,146.12	1,023.08	123.04	9.315	
11,000.00	7,756.26	11,128.72	7,752.89	65.68	61.11	-89.93	-3,451.49	1,384.84	1,136.42	1,010.10	126.32	8.996	
11,100.00	7,754.41	11,227.01	7,753.65	67.48	62.76	-90.06	-3,549.75	1,382.89	1,127.19	997.44	129.75	8.687	
11,200.00	7,752.57	11,326.10	7,753.05	69.28	64.42	-90.12	-3,647.82	1,380.85	1,117.89	984.68	133.21	8.392	
11,300.00	7,750.73	11,419.14	7,753.26	71.08	66.00	-90.22	-3,741.86	1,379.45	1,109.16	972.57	136.60	8.120	
11,400.00	7,748.88	11,522.46	7,753.26	72.89	67.75	-90.32	-3,845.16	1,377.85	1,100.39	960.25	140.14	7.852	
11,500.00	7,747.04	11,629.81	7,757.34	74.70	69.57	-90.65	-3,952.40	1,375.72	1,091.23	947.46	143.76	7.590	
11,600.00	7,745.20	11,743.35	7,762.20	76.51	71.52	-91.02	-4,065.78	1,372.19	1,080.97	933.46	147.51	7.328	
11,700.00	7,743.35	11,825.29	7,765.85	78.32	72.92	-91.31	-4,147.60	1,369.45	1,070.58	919.88	150.71	7.104	
11,800.00	7,741.51	11,896.44	7,770.07	80.14	74.12	-91.61	-4,218.61	1,368.79	1,062.62	908.92	153.71	6.913	
11,900.00	7,739.67	11,957.00	7,773.04	81.96	75.14	-91.84	-4,279.09	1,369.84	1,057.56	901.03	156.53	6.756	
12,000.00	7,737.82	12,053.00	7,775.47	83.78	76.78	-92.07	-4,374.95	1,374.20	1,055.01	895.04	159.98	6.595	
12,100.00	7,735.98	12,142.47	7,774.91	85.60	78.33	-92.13	-4,464.26	1,379.51	1,053.67	890.32	163.35	6.450	
12,200.00	7,734.14	12,263.77	7,771.43	87.42	80.45	-92.07	-4,585.37	1,385.40	1,051.27	883.96	167.31	6.283	
12,300.00	7,732.29	12,398.25	7,765.21	89.25	82.81	-91.88	-4,719.65	1,388.58	1,046.36	874.86	171.50	6.101	
12,370.13	7,731.00	12,456.00	7,761.88	90.53	82.83	-91.76	-4,777.31	1,388.90	1,041.67	868.87	172.81	6.028 CC, ES, SF	

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

Leam Drilling Systems LLC

Anticollision Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well-6H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3201' + KB 26' @ 3227.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3201' + KB 26' @ 3227.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00-sigma
Reference Wellbore:	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1 Draft 1	Offset TVD Reference:	Reference Datum

Offset Design: Lone Tree Draw "13" State-- 8H - OH - Plan #1												Offset Site Error: 0.00 usft	
Survey Program: 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
0.00	0.00	0.00	29.00	0.00	0.00	89.19	43.38	3,050.82	3,051.27				
100.00	100.00	71.00	100.00	0.08	0.06	89.19	43.38	3,050.82	3,051.13	3,050.99	0.14	N/A	
200.00	200.00	171.00	200.00	0.31	0.24	89.19	43.38	3,050.82	3,051.13	3,050.58	0.55	5,540.686	
300.00	300.00	271.00	300.00	0.53	0.47	89.19	43.38	3,050.82	3,051.13	3,050.13	1.00	3,050.491	
400.00	400.00	371.00	400.00	0.76	0.69	89.19	43.38	3,050.82	3,051.13	3,049.68	1.45	2,104.602	
500.00	500.00	471.00	500.00	0.98	0.92	89.19	43.38	3,050.82	3,051.13	3,049.23	1.90	1,606.472	
600.00	600.00	571.00	600.00	1.21	1.14	89.19	43.38	3,050.82	3,051.13	3,048.78	2.35	1,299.013	
700.00	700.00	671.00	700.00	1.43	1.37	89.19	43.38	3,050.82	3,051.13	3,048.33	2.80	1,090.336	
800.00	800.00	771.00	800.00	1.66	1.59	89.19	43.38	3,050.82	3,051.13	3,047.88	3.25	939.425	
900.00	900.00	871.00	900.00	1.88	1.82	89.19	43.38	3,050.82	3,051.13	3,047.43	3.70	825.209	
1,000.00	1,000.00	971.00	1,000.00	2.11	2.04	89.19	43.38	3,050.82	3,051.13	3,046.98	4.15	735.755	
1,100.00	1,100.00	1,071.00	1,100.00	2.33	2.27	89.19	43.38	3,050.82	3,051.13	3,046.53	4.60	663.799	
1,200.00	1,200.00	1,171.00	1,200.00	2.56	2.49	89.19	43.38	3,050.82	3,051.13	3,046.08	5.05	604.663	
1,300.00	1,300.00	1,271.00	1,300.00	2.78	2.72	89.19	43.38	3,050.82	3,051.13	3,045.63	5.50	555.202	
1,400.00	1,400.00	1,371.00	1,400.00	3.01	2.94	89.19	43.38	3,050.82	3,051.13	3,045.18	5.95	513.221	
1,500.00	1,500.00	1,471.00	1,500.00	3.23	3.16	89.19	43.38	3,050.82	3,051.13	3,044.73	6.39	477.142	
1,600.00	1,600.00	1,571.00	1,600.00	3.45	3.39	89.19	43.38	3,050.82	3,051.13	3,044.28	6.84	445.802	
1,700.00	1,700.00	1,671.00	1,700.00	3.68	3.61	89.19	43.38	3,050.82	3,051.13	3,043.83	7.29	418.326	
1,800.00	1,800.00	1,771.00	1,800.00	3.90	3.84	89.19	43.38	3,050.82	3,051.13	3,043.39	7.74	394.040	
1,900.00	1,900.00	1,871.00	1,900.00	4.13	4.06	89.19	43.38	3,050.82	3,051.13	3,042.94	8.19	372.419	
2,000.00	2,000.00	1,971.00	2,000.00	4.35	4.29	89.19	43.38	3,050.82	3,051.13	3,042.49	8.64	353.048	
2,100.00	2,100.00	2,071.00	2,100.00	4.58	4.51	89.19	43.38	3,050.82	3,051.13	3,042.04	9.09	335.592	
2,200.00	2,200.00	2,171.00	2,200.00	4.80	4.74	89.19	43.38	3,050.82	3,051.13	3,041.59	9.54	319.781	
2,300.00	2,300.00	2,271.00	2,300.00	5.03	4.96	89.19	43.38	3,050.82	3,051.13	3,041.14	9.99	305.392	
2,400.00	2,400.00	2,371.00	2,400.00	5.25	5.19	89.19	43.38	3,050.82	3,051.13	3,040.69	10.44	292.243	
2,500.00	2,500.00	2,471.00	2,500.00	5.48	5.41	89.19	43.38	3,050.82	3,051.13	3,040.24	10.89	280.179	
2,600.00	2,600.00	2,571.00	2,600.00	5.70	5.64	89.19	43.38	3,050.82	3,051.13	3,039.79	11.34	269.072	
2,700.00	2,700.00	2,671.00	2,700.00	5.93	5.86	89.19	43.38	3,050.82	3,051.13	3,039.34	11.79	258.812	
2,800.00	2,800.00	2,771.00	2,800.00	6.15	6.09	89.19	43.38	3,050.82	3,051.13	3,038.89	12.24	249.306	
2,900.00	2,900.00	2,871.00	2,900.00	6.38	6.31	89.19	43.38	3,050.82	3,051.13	3,038.44	12.69	240.473	
3,000.00	3,000.00	2,971.00	3,000.00	6.60	6.54	89.19	43.38	3,050.82	3,051.13	3,037.99	13.14	232.244	
3,100.00	3,100.00	3,071.00	3,100.00	6.83	6.76	89.19	43.38	3,050.82	3,051.13	3,037.54	13.59	224.561	
3,200.00	3,200.00	3,171.00	3,200.00	7.05	6.99	89.19	43.38	3,050.82	3,051.13	3,037.09	14.04	217.389	
3,300.00	3,300.00	3,271.00	3,300.00	7.28	7.21	89.19	43.38	3,050.82	3,051.13	3,036.64	14.49	210.624	
3,400.00	3,400.00	3,371.00	3,400.00	7.50	7.44	89.19	43.38	3,050.82	3,051.13	3,036.19	14.94	204.284	
3,500.00	3,500.00	3,471.00	3,500.00	7.73	7.66	89.19	43.38	3,050.82	3,051.13	3,035.74	15.39	198.315	
3,600.00	3,600.00	3,571.00	3,600.00	7.95	7.88	89.19	43.38	3,050.82	3,051.13	3,035.29	15.83	192.685	
3,700.00	3,700.00	3,671.00	3,700.00	8.17	8.11	89.19	43.38	3,050.82	3,051.13	3,034.84	16.28	187.366	
3,800.00	3,800.00	3,771.00	3,800.00	8.40	8.33	89.19	43.38	3,050.82	3,051.13	3,034.39	16.73	182.333	
3,900.00	3,900.00	3,871.00	3,900.00	8.62	8.56	89.19	43.38	3,050.82	3,051.13	3,033.95	17.18	177.563	
4,000.00	4,000.00	3,971.00	4,000.00	8.85	8.78	89.19	43.38	3,050.82	3,051.13	3,033.50	17.63	173.036	
4,100.00	4,100.00	4,071.00	4,100.00	9.07	9.01	89.19	43.38	3,050.82	3,051.13	3,033.05	18.08	168.734	
4,200.00	4,200.00	4,171.00	4,200.00	9.30	9.23	89.19	43.38	3,050.82	3,051.13	3,032.60	18.53	164.641	
4,300.00	4,300.00	4,271.00	4,300.00	9.52	9.46	89.19	43.38	3,050.82	3,051.13	3,032.15	18.98	160.742	
4,400.00	4,400.00	4,371.00	4,400.00	9.75	9.68	89.19	43.38	3,050.82	3,051.13	3,031.70	19.43	157.024	
4,500.00	4,500.00	4,471.00	4,500.00	9.97	9.91	89.19	43.38	3,050.82	3,051.13	3,031.25	19.88	153.473	
4,600.00	4,600.00	4,571.00	4,600.00	10.20	10.13	89.19	43.38	3,050.82	3,051.13	3,030.80	20.33	150.079	
4,700.00	4,700.00	4,671.00	4,700.00	10.42	10.36	89.19	43.38	3,050.82	3,051.13	3,030.35	20.78	146.833	
4,800.00	4,800.00	4,771.00	4,800.00	10.65	10.58	89.19	43.38	3,050.82	3,051.13	3,029.90	21.23	143.724	
4,900.00	4,900.00	4,871.00	4,900.00	10.87	10.81	89.19	43.38	3,050.82	3,051.13	3,029.45	21.68	140.743	
5,000.00	5,000.00	4,971.00	5,000.00	11.10	11.03	89.19	43.38	3,050.82	3,051.13	3,029.00	22.13	137.884	

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 6H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3201' + KB 26' @ 3227.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3201' + KB 26' @ 3227.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore:	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1 Draft 1	Offset TVD Reference:	Reference Datum

Offset Design Lone Tree Draw "13" State - 8H - OH - Plan #1														Offset Site Error:	0.00 usft
Survey Program: O-LEAM MWD-ADJ														Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis		Distance		Minimum Separation		Warning							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
5,100.00	5,100.00	5,071.00	5,100.00	11.32	11.26	89.19	43.38	3,050.82	3,051.13	3,028.55	22.58	135.139			
5,200.00	5,200.00	5,171.00	5,200.00	11.55	11.48	89.19	43.38	3,050.82	3,051.13	3,028.10	23.03	132.501			
5,300.00	5,300.00	5,271.00	5,300.00	11.77	11.71	89.19	43.38	3,050.82	3,051.13	3,027.65	23.48	129.963			
5,400.00	5,400.00	5,371.00	5,400.00	12.00	11.93	89.19	43.38	3,050.82	3,051.13	3,027.20	23.93	127.522			
5,500.00	5,500.00	5,471.00	5,500.00	12.22	12.16	89.19	43.38	3,050.82	3,051.13	3,026.75	24.38	125.170			
5,600.00	5,600.00	5,571.00	5,600.00	12.45	12.38	89.19	43.38	3,050.82	3,051.13	3,026.30	24.83	122.903			
5,700.00	5,700.00	5,671.00	5,700.00	12.67	12.60	89.19	43.38	3,050.82	3,051.13	3,025.85	25.27	120.718			
5,800.00	5,800.00	5,771.00	5,800.00	12.89	12.83	89.19	43.38	3,050.82	3,051.13	3,025.40	25.72	118.608			
5,900.00	5,900.00	5,871.00	5,900.00	13.12	13.05	89.19	43.38	3,050.82	3,051.13	3,024.95	26.17	116.571			
6,000.00	6,000.00	5,971.00	6,000.00	13.34	13.28	89.19	43.38	3,050.82	3,051.13	3,024.50	26.62	114.603			
6,100.00	6,100.00	6,071.00	6,100.00	13.57	13.50	89.19	43.38	3,050.82	3,051.13	3,024.06	27.07	112.700			
6,200.00	6,200.00	6,171.00	6,200.00	13.79	13.73	89.19	43.38	3,050.82	3,051.13	3,023.61	27.52	110.859			
6,300.00	6,300.00	6,271.00	6,300.00	14.02	13.95	89.19	43.38	3,050.82	3,051.13	3,023.16	27.97	109.077			
6,400.00	6,400.00	6,371.00	6,400.00	14.24	14.18	89.19	43.38	3,050.82	3,051.13	3,022.71	28.42	107.352			
6,500.00	6,500.00	6,471.00	6,500.00	14.47	14.40	89.19	43.38	3,050.82	3,051.13	3,022.26	28.87	105.681			
6,600.00	6,600.00	6,571.00	6,600.00	14.69	14.63	89.19	43.38	3,050.82	3,051.13	3,021.81	29.32	104.060			
6,700.00	6,700.00	6,671.00	6,700.00	14.92	14.85	89.19	43.38	3,050.82	3,051.13	3,021.36	29.77	102.489			
6,800.00	6,800.00	6,771.00	6,800.00	15.14	15.08	89.19	43.38	3,050.82	3,051.13	3,020.91	30.22	100.965			
6,900.00	6,900.00	6,871.00	6,900.00	15.37	15.30	89.19	43.38	3,050.82	3,051.13	3,020.46	30.67	99.485			
7,000.00	7,000.00	6,971.00	7,000.00	15.59	15.53	89.19	43.38	3,050.82	3,051.13	3,020.01	31.12	98.048			
7,100.00	7,100.00	7,071.00	7,100.00	15.82	15.75	89.19	43.38	3,050.82	3,051.13	3,019.56	31.57	96.651			
7,200.00	7,200.00	7,171.00	7,200.00	16.04	15.98	89.19	43.38	3,050.82	3,051.13	3,019.11	32.02	95.294			
7,236.00	7,236.00	7,207.00	7,236.00	16.12	16.06	89.19	43.38	3,050.82	3,051.13	3,018.95	32.18	94.815			
7,250.00	7,250.00	7,221.16	7,250.16	16.15	16.09	-86.67	43.37	3,050.82	3,051.12	3,018.88	32.24	94.643			
7,300.00	7,299.87	7,274.88	7,303.76	16.23	16.18	-86.70	40.22	3,050.83	3,050.89	3,018.48	32.41	94.142			
7,350.00	7,349.25	7,328.59	7,356.70	16.32	16.27	-86.74	31.33	3,050.86	3,050.35	3,017.77	32.57	93.651			
7,400.00	7,397.77	7,382.14	7,408.23	16.41	16.37	-86.80	16.84	3,050.90	3,049.50	3,016.76	32.73	93.158			
7,450.00	7,445.06	7,435.40	7,457.64	16.49	16.46	-86.86	-2.97	3,050.96	3,048.35	3,015.44	32.90	92.646			
7,500.00	7,490.76	7,488.24	7,504.29	16.58	16.55	-86.93	-27.73	3,051.04	3,046.91	3,013.83	33.08	92.094			
7,550.00	7,534.52	7,540.54	7,547.63	16.66	16.64	-87.01	-56.96	3,051.13	3,045.20	3,011.91	33.29	91.475			
7,600.00	7,576.00	7,592.20	7,587.21	16.77	16.77	-87.11	-90.13	3,051.23	3,043.24	3,009.71	33.53	90.766			
7,650.00	7,614.90	7,643.15	7,622.67	16.90	16.92	-87.21	-126.69	3,051.34	3,041.03	3,007.22	33.81	89.946			
7,700.00	7,650.92	7,693.33	7,653.76	17.06	17.10	-87.32	-166.04	3,051.46	3,038.61	3,004.47	34.14	88.996			
7,750.00	7,683.78	7,742.68	7,680.33	17.24	17.31	-87.44	-207.61	3,051.59	3,036.00	3,001.47	34.54	87.908			
7,800.00	7,713.23	7,791.19	7,702.32	17.46	17.55	-87.57	-250.82	3,051.72	3,033.23	2,998.23	34.99	86.679			
7,850.00	7,739.05	7,838.84	7,719.72	17.71	17.83	-87.71	-295.16	3,051.86	3,030.31	2,994.79	35.52	85.316			
7,900.00	7,761.04	7,885.63	7,732.62	18.00	18.13	-87.86	-340.12	3,051.99	3,027.27	2,991.16	36.11	83.833			
7,950.00	7,779.03	7,931.59	7,741.12	18.33	18.46	-88.02	-385.27	3,052.13	3,024.14	2,987.37	36.77	82.250			
8,000.00	7,792.89	7,976.72	7,745.39	18.70	18.81	-88.18	-430.18	3,052.27	3,020.94	2,983.45	37.48	80.591			
8,050.00	7,802.52	8,023.24	7,745.98	19.10	19.20	-88.34	-476.69	3,052.41	3,017.69	2,979.41	38.29	78.818			
8,100.00	7,807.83	8,072.82	7,745.92	19.54	19.65	-88.57	-526.27	3,052.57	3,014.36	2,975.19	39.17	76.954			
8,146.56	7,808.86	8,119.24	7,745.87	19.97	20.09	-88.87	-572.69	3,052.71	3,011.15	2,971.11	40.05	75.189			
8,200.00	7,807.88	8,172.54	7,745.81	20.51	20.64	-88.89	-625.99	3,052.87	3,007.43	2,966.31	41.12	73.134			
8,300.00	7,806.03	8,272.29	7,745.69	21.59	21.73	-88.92	-725.74	3,053.18	3,000.47	2,957.17	43.30	69.302			
8,400.00	7,804.19	8,372.03	7,745.57	22.77	22.92	-88.95	-825.48	3,053.48	2,993.51	2,947.84	45.66	65.556			
8,500.00	7,802.35	8,471.78	7,745.46	24.04	24.19	-88.98	-925.23	3,053.79	2,986.54	2,938.35	48.20	61.966			
8,600.00	7,800.50	8,571.52	7,745.34	25.39	25.52	-89.01	-1,024.97	3,054.09	2,979.58	2,928.71	50.87	58.572			
8,700.00	7,798.66	8,671.27	7,745.22	26.79	26.92	-89.04	-1,124.72	3,054.40	2,972.62	2,918.96	53.66	55.393			
8,800.00	7,796.81	8,771.01	7,745.11	28.25	28.36	-89.07	-1,224.46	3,054.70	2,965.66	2,909.10	56.56	52.434			
8,900.00	7,794.97	8,870.76	7,744.99	29.75	29.84	-89.10	-1,324.20	3,055.01	2,958.70	2,899.16	59.54	49.690			

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 6H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3201' + KB 26' @ 3227.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3201' + KB 26' @ 3227.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1 Draft 1	Offset TVD Reference:	Reference Datum

Offset Design Lone Tree Draw "13" State - 8H - OH - Plan #1														Offset Site Error:	0.00 usft
Survey Program: O-LEAM MWD-ADJ														Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Semi Major Axis	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	7,793.13	8,970.50	7,744.88	31.29	31.37	-89.13	-89.13	-1,423.95	3,055.32	2,951.75	2,889.15	62.60	47.152		
9,100.00	7,791.28	9,070.24	7,744.76	32.87	32.92	-89.17	-89.17	-1,523.69	3,055.62	2,944.79	2,879.07	65.72	44.807		
9,200.00	7,789.44	9,169.99	7,744.64	34.47	34.50	-89.20	-89.20	-1,623.44	3,055.93	2,937.83	2,868.94	68.90	42.640		
9,300.00	7,787.60	9,269.73	7,744.53	36.10	36.10	-89.23	-89.23	-1,723.18	3,056.23	2,930.88	2,858.75	72.12	40.636		
9,400.00	7,785.75	9,369.48	7,744.41	37.74	37.72	-89.26	-89.26	-1,822.92	3,056.54	2,923.93	2,848.53	75.39	38.783		
9,500.00	7,783.91	9,469.22	7,744.30	39.41	39.36	-89.29	-89.29	-1,922.67	3,056.84	2,916.97	2,838.28	78.70	37.066		
9,600.00	7,782.07	9,568.97	7,744.18	41.10	41.02	-89.33	-89.33	-2,022.41	3,057.15	2,910.02	2,827.99	82.03	35.474		
9,700.00	7,780.22	9,668.71	7,744.06	42.80	42.69	-89.36	-89.36	-2,122.16	3,057.45	2,903.07	2,817.67	85.40	33.995		
9,800.00	7,778.38	9,768.46	7,743.95	44.51	44.37	-89.39	-89.39	-2,221.90	3,057.76	2,896.12	2,807.33	88.79	32.619		
9,900.00	7,776.54	9,868.20	7,743.83	46.23	46.07	-89.42	-89.42	-2,321.64	3,058.07	2,889.17	2,796.97	92.20	31.336		
10,000.00	7,774.69	9,967.95	7,743.71	47.96	47.77	-89.46	-89.46	-2,421.39	3,058.37	2,882.22	2,786.59	95.63	30.138		
10,100.00	7,772.85	10,067.69	7,743.60	49.71	49.49	-89.49	-89.49	-2,521.13	3,058.68	2,875.27	2,776.19	99.08	29.019		
10,200.00	7,771.01	10,167.44	7,743.48	51.46	51.21	-89.52	-89.52	-2,620.88	3,058.98	2,868.33	2,765.78	102.55	27.970		
10,300.00	7,769.16	10,267.18	7,743.37	53.21	52.93	-89.56	-89.56	-2,720.62	3,059.29	2,861.38	2,755.35	106.03	26.986		
10,400.00	7,767.32	10,366.92	7,743.25	54.98	54.67	-89.59	-89.59	-2,820.37	3,059.59	2,854.44	2,744.91	109.53	26.062		
10,500.00	7,765.48	10,466.67	7,743.13	56.75	56.41	-89.62	-89.62	-2,920.11	3,059.90	2,847.49	2,734.46	113.03	25.192		
10,600.00	7,763.63	10,566.41	7,743.02	58.53	58.15	-89.66	-89.66	-3,019.85	3,060.20	2,840.55	2,724.00	116.55	24.372		
10,700.00	7,761.79	10,666.16	7,742.90	60.31	59.90	-89.69	-89.69	-3,119.60	3,060.51	2,833.61	2,713.53	120.08	23.598		
10,800.00	7,759.95	10,765.90	7,742.79	62.09	61.66	-89.72	-89.72	-3,219.34	3,060.82	2,826.67	2,703.05	123.61	22.867		
10,900.00	7,758.10	10,865.65	7,742.67	63.88	63.42	-89.76	-89.76	-3,319.09	3,061.12	2,819.73	2,692.57	127.16	22.175		
11,000.00	7,756.26	10,965.39	7,742.55	65.68	65.18	-89.79	-89.79	-3,418.83	3,061.43	2,812.79	2,682.08	130.71	21.519		
11,100.00	7,754.41	11,065.14	7,742.44	67.48	66.95	-89.83	-89.83	-3,518.57	3,061.73	2,805.85	2,671.58	134.27	20.897		
11,200.00	7,752.57	11,164.88	7,742.32	69.28	68.71	-89.86	-89.86	-3,618.32	3,062.04	2,798.91	2,661.08	137.84	20.306		
11,300.00	7,750.73	11,264.63	7,742.21	71.08	70.49	-89.90	-89.90	-3,718.06	3,062.34	2,791.98	2,650.57	141.41	19.744		
11,400.00	7,748.88	11,364.37	7,742.09	72.89	72.26	-89.93	-89.93	-3,817.81	3,062.65	2,785.04	2,640.06	144.99	19.209		
11,500.00	7,747.04	11,464.12	7,741.97	74.70	74.04	-89.97	-89.97	-3,917.55	3,062.95	2,778.11	2,629.54	148.57	18.699		
11,600.00	7,745.20	11,563.86	7,741.86	76.51	75.82	-90.00	-90.00	-4,017.29	3,063.26	2,771.18	2,619.02	152.16	18.213		
11,700.00	7,743.35	11,663.61	7,741.74	78.32	77.60	-90.04	-90.04	-4,117.04	3,063.57	2,764.25	2,608.50	155.75	17.748		
11,800.00	7,741.51	11,763.35	7,741.62	80.14	79.38	-90.08	-90.08	-4,216.78	3,063.87	2,757.32	2,597.97	159.34	17.304		
11,900.00	7,739.67	11,863.09	7,741.51	81.96	81.17	-90.11	-90.11	-4,316.53	3,064.18	2,750.39	2,587.44	162.94	16.879		
12,000.00	7,737.82	11,962.84	7,741.39	83.78	82.96	-90.15	-90.15	-4,416.27	3,064.48	2,743.46	2,576.91	166.55	16.473		
12,100.00	7,735.98	12,062.58	7,741.28	85.60	84.75	-90.18	-90.18	-4,516.01	3,064.79	2,736.53	2,566.38	170.15	16.083		
12,200.00	7,734.14	12,162.33	7,741.16	87.42	86.54	-90.22	-90.22	-4,615.76	3,065.09	2,729.61	2,555.84	173.76	15.709		
12,300.00	7,732.29	12,262.07	7,741.04	89.25	88.33	-90.26	-90.26	-4,715.50	3,065.40	2,722.68	2,545.31	177.37	15.350		
12,370.13	7,731.00	12,299.56	7,741.00	90.53	89.01	-90.27	-90.27	-4,752.99	3,065.51	2,718.02	2,538.69	179.33	15.157 CC, ES, SF		

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

Leam Drilling Systems LLC

Anticollision Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 6H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3201' + KB 26' @ 3227.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3201' + KB 26' @ 3227.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore:	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1 Draft 1	Offset TVD Reference:	Reference Datum

Offset Design													Offset Site Error:
Lone Tree Draw Offsets - Lone Tree #1 - OH - OH													0.00 usft
Survey Program: 100-NS-GYRO-MS													Offset Well Error: 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	49.00	0.00	0.00	152.05	-3,123.89	1,656.97	3,536.47				
100.00	100.00	53.14	102.14	0.08	0.06	152.06	-3,123.90	1,656.91	3,536.12	3,535.97	0.14	N/A	
200.00	200.00	159.58	208.57	0.31	0.27	152.06	-3,123.95	1,656.50	3,535.98	3,535.40	0.58	6,115.226	
300.00	300.00	258.05	307.05	0.53	0.53	152.07	-3,123.98	1,655.87	3,535.71	3,534.64	1.06	3,328.280	
395.82	395.82	346.82	395.82	0.75	0.76	152.08	-3,124.21	1,655.25	3,535.61	3,534.10	1.51	2,344.292	
400.00	400.00	350.70	399.69	0.76	0.77	152.09	-3,124.22	1,655.23	3,535.61	3,534.08	1.53	2,314.596	
500.00	500.00	442.56	491.55	0.98	1.00	152.10	-3,124.65	1,654.66	3,535.73	3,533.75	1.98	1,782.011	
600.00	600.00	537.40	586.39	1.21	1.24	152.11	-3,125.31	1,654.11	3,536.08	3,533.63	2.44	1,447.170	
700.00	700.00	634.38	683.37	1.43	1.47	152.12	-3,126.01	1,653.60	3,536.46	3,533.57	2.90	1,220.451	
800.00	800.00	729.78	778.76	1.66	1.68	152.13	-3,126.71	1,653.50	3,537.06	3,533.73	3.33	1,061.464	
900.00	900.00	833.03	882.01	1.88	1.92	152.14	-3,127.61	1,652.86	3,537.54	3,533.75	3.80	931.503	
1,000.00	1,000.00	921.98	970.95	2.11	2.13	152.15	-3,128.41	1,652.59	3,538.20	3,533.96	4.24	834.999	
1,100.00	1,100.00	1,009.47	1,058.44	2.33	2.33	152.16	-3,129.47	1,652.50	3,539.22	3,534.55	4.67	758.637	
1,200.00	1,200.00	1,116.04	1,164.99	2.56	2.60	152.18	-3,131.01	1,652.04	3,540.29	3,535.14	5.15	686.828	
1,300.00	1,300.00	1,219.42	1,268.36	2.78	2.87	152.21	-3,132.68	1,650.96	3,541.24	3,535.59	5.65	626.687	
1,400.00	1,400.00	1,321.20	1,370.11	3.01	3.14	152.24	-3,134.31	1,649.72	3,542.08	3,535.94	6.15	576.396	
1,500.00	1,500.00	1,427.66	1,476.55	3.23	3.42	152.27	-3,136.05	1,648.43	3,542.98	3,536.33	6.65	532.786	
1,600.00	1,600.00	1,569.15	1,618.01	3.45	3.77	152.32	-3,137.40	1,645.75	3,542.89	3,535.66	7.23	490.143	
1,700.00	1,700.00	1,669.41	1,718.24	3.68	4.02	152.35	-3,137.86	1,643.61	3,542.30	3,534.61	7.70	460.320	
1,800.00	1,800.00	1,768.02	1,816.83	3.90	4.26	152.39	-3,138.47	1,641.44	3,541.83	3,533.67	8.16	433.920	
1,900.00	1,900.00	1,873.36	1,922.15	4.13	4.52	152.43	-3,139.02	1,639.18	3,541.30	3,532.66	8.65	409.591	
2,000.00	2,000.00	1,976.27	2,025.03	4.35	4.76	152.46	-3,139.21	1,637.29	3,540.62	3,531.51	9.11	388.518	
2,100.00	2,100.00	2,092.54	2,141.30	4.58	5.01	152.48	-3,138.91	1,635.62	3,539.73	3,530.14	9.59	369.082	
2,200.00	2,200.00	2,197.74	2,246.47	4.80	5.22	152.50	-3,138.28	1,633.97	3,538.48	3,528.45	10.03	352.857	
2,300.00	2,300.00	2,289.69	2,338.42	5.03	5.41	152.51	-3,137.74	1,632.62	3,537.28	3,526.83	10.44	338.758	
2,400.00	2,400.00	2,397.95	2,446.66	5.25	5.64	152.53	-3,137.13	1,631.03	3,536.10	3,525.20	10.90	324.558	
2,500.00	2,500.00	2,494.74	2,543.43	5.48	5.85	152.55	-3,136.51	1,629.53	3,534.82	3,523.49	11.33	312.082	
2,600.00	2,600.00	2,593.41	2,642.09	5.70	6.06	152.56	-3,135.88	1,628.17	3,533.61	3,521.85	11.76	300.462	
2,700.00	2,700.00	2,677.19	2,725.87	5.93	6.24	152.57	-3,135.43	1,627.24	3,532.64	3,520.47	12.17	290.275	
2,800.00	2,800.00	2,785.22	2,833.90	6.15	6.48	152.58	-3,135.04	1,626.23	3,531.89	3,519.25	12.64	279.494	
2,900.00	2,900.00	2,878.89	2,927.56	6.38	6.69	152.59	-3,134.57	1,625.28	3,530.98	3,517.91	13.07	270.144	
3,000.00	3,000.00	2,978.02	3,026.68	6.60	6.90	152.60	-3,134.14	1,624.52	3,530.24	3,516.74	13.50	261.460	
3,100.00	3,100.00	3,082.08	3,130.74	6.83	7.11	152.61	-3,133.52	1,623.89	3,529.43	3,515.50	13.93	253.320	
3,200.00	3,200.00	3,190.95	3,239.60	7.05	7.30	152.61	-3,132.65	1,623.22	3,528.44	3,514.09	14.35	245.877	
3,300.00	3,300.00	3,299.95	3,348.59	7.28	7.47	152.61	-3,131.39	1,622.69	3,527.19	3,512.45	14.75	239.200	
3,400.00	3,400.00	3,396.11	3,444.74	7.50	7.61	152.60	-3,130.13	1,622.36	3,525.87	3,510.76	15.11	233.380	
3,500.00	3,500.00	3,501.55	3,550.18	7.73	7.75	152.59	-3,128.67	1,622.11	3,524.53	3,509.05	15.48	227.689	
3,600.00	3,600.00	3,612.60	3,661.21	7.95	7.94	152.59	-3,126.98	1,621.55	3,522.95	3,507.06	15.89	221.772	
3,700.00	3,700.00	3,719.28	3,767.87	8.17	8.09	152.58	-3,124.85	1,621.31	3,521.07	3,504.80	16.27	216.439	
3,800.00	3,800.00	3,811.78	3,860.35	8.40	8.22	152.56	-3,122.97	1,621.32	3,519.27	3,502.65	16.62	211.746	
3,900.00	3,900.00	3,917.71	3,966.26	8.62	8.38	152.55	-3,120.85	1,621.18	3,517.43	3,500.43	17.00	206.871	
4,000.00	4,000.00	4,011.13	4,059.66	8.85	8.53	152.54	-3,119.06	1,621.06	3,515.67	3,498.29	17.38	202.332	
4,100.00	4,100.00	4,116.00	4,164.51	9.07	8.70	152.53	-3,117.04	1,620.83	3,513.86	3,496.08	17.78	197.677	
4,200.00	4,200.00	4,204.20	4,252.70	9.30	8.87	152.52	-3,115.56	1,620.50	3,512.19	3,494.03	18.16	193.379	
4,300.00	4,300.00	4,300.00	4,348.49	9.52	9.05	152.51	-3,114.20	1,620.18	3,510.77	3,492.21	18.57	189.083	
4,400.00	4,400.00	4,408.47	4,456.95	9.75	9.25	152.51	-3,112.57	1,619.83	3,509.30	3,490.31	19.00	184.719	
4,500.00	4,500.00	4,515.50	4,563.96	9.97	9.46	152.50	-3,110.59	1,619.50	3,507.51	3,488.08	19.43	180.532	
4,600.00	4,600.00	4,600.00	4,648.45	10.20	9.63	152.49	-3,109.29	1,619.17	3,505.96	3,486.14	19.82	176.855	
4,700.00	4,700.00	4,698.60	4,747.04	10.42	9.83	152.49	-3,108.00	1,618.89	3,504.66	3,484.42	20.25	173.099	
4,800.00	4,800.00	4,808.65	4,857.08	10.65	10.05	152.48	-3,106.35	1,618.43	3,503.14	3,482.44	20.70	169.250	
4,900.00	4,900.00	4,900.00	4,948.42	10.87	10.25	152.48	-3,105.12	1,618.04	3,501.74	3,480.62	21.12	165.825	

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 6H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3201' + KB 26' @ 3227.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3201' + KB 26' @ 3227.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore:	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1 Draft 1	Offset TVD Reference:	Reference Datum

Offset Design													Offset Site Error: 0.00 usft	
Lone Tree Draw Offsets - Lone Tree #1 - OH - OH													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	
5,000.00	5,000.00	4,997.00	5,045.40	11.10	10.47	152.47	-3,103.96	1,617.62	3,500.48	3,478.91	21.56	162.346		
5,100.00	5,100.00	5,096.33	5,144.73	11.32	10.71	152.47	-3,102.79	1,617.11	3,499.19	3,477.16	22.03	158.862		
5,200.00	5,200.00	5,195.67	5,244.06	11.55	10.95	152.47	-3,101.63	1,616.60	3,497.92	3,475.43	22.49	155.523		
5,300.00	5,300.00	5,295.00	5,343.39	11.77	11.19	152.47	-3,100.49	1,616.10	3,496.67	3,473.71	22.96	152.320		
5,400.00	5,400.00	5,394.34	5,442.72	12.00	11.43	152.47	-3,099.36	1,615.61	3,495.44	3,472.02	23.42	149.245		
5,500.00	5,500.00	5,493.68	5,542.05	12.22	11.67	152.47	-3,098.26	1,615.13	3,494.22	3,470.34	23.89	146.290		
5,600.00	5,600.00	5,593.02	5,641.38	12.45	11.91	152.47	-3,097.17	1,614.65	3,493.03	3,468.68	24.35	143.449		
5,700.00	5,700.00	5,692.36	5,740.71	12.67	12.15	152.46	-3,096.10	1,614.18	3,491.85	3,467.04	24.81	140.716		
5,800.00	5,800.00	5,791.69	5,840.04	12.89	12.39	152.46	-3,095.04	1,613.72	3,490.70	3,465.42	25.28	138.083		
5,900.00	5,900.00	5,891.03	5,939.38	13.12	12.63	152.46	-3,094.01	1,613.26	3,489.56	3,463.82	25.74	135.546		
6,000.00	6,000.00	5,890.37	6,038.71	13.34	12.87	152.46	-3,092.98	1,612.82	3,488.44	3,462.23	26.21	133.100		
6,100.00	6,100.00	6,089.71	6,138.04	13.57	13.11	152.46	-3,091.98	1,612.38	3,487.34	3,460.67	26.67	130.740		
6,200.00	6,200.00	6,189.05	6,237.38	13.79	13.35	152.46	-3,090.99	1,611.94	3,486.26	3,459.12	27.14	128.461		
6,300.00	6,300.00	6,288.39	6,336.71	14.02	13.59	152.46	-3,090.03	1,611.52	3,485.20	3,457.59	27.60	126.260		
6,400.00	6,400.00	6,387.74	6,436.05	14.24	13.83	152.46	-3,089.07	1,611.10	3,484.15	3,456.09	28.07	124.132		
6,500.00	6,500.00	6,487.08	6,535.38	14.47	14.07	152.45	-3,088.14	1,610.69	3,483.13	3,454.60	28.53	122.074		
6,600.00	6,600.00	6,586.42	6,634.72	14.69	14.31	152.45	-3,087.22	1,610.29	3,482.12	3,453.12	29.00	120.083		
6,700.00	6,700.00	6,685.76	6,734.06	14.92	14.55	152.45	-3,086.32	1,609.90	3,481.13	3,451.67	29.46	118.155		
6,800.00	6,800.00	6,785.10	6,833.40	15.14	14.79	152.45	-3,085.44	1,609.51	3,480.16	3,450.24	29.93	116.288		
6,900.00	6,900.00	6,884.45	6,932.74	15.37	15.03	152.45	-3,084.57	1,609.13	3,479.21	3,448.82	30.39	114.478		
7,000.00	7,000.00	6,983.79	7,032.07	15.59	15.27	152.45	-3,083.72	1,608.76	3,478.28	3,447.43	30.86	112.724		
7,100.00	7,100.00	7,083.13	7,131.41	15.82	15.51	152.45	-3,082.89	1,608.39	3,477.37	3,446.05	31.32	111.022		
7,200.00	7,200.00	7,182.48	7,230.75	16.04	15.75	152.45	-3,082.07	1,608.04	3,476.48	3,444.69	31.79	109.371		
7,236.00	7,236.00	7,218.24	7,266.52	16.12	15.84	152.45	-3,081.78	1,607.91	3,476.16	3,444.21	31.95	108.788		
7,250.00	7,250.00	7,232.15	7,280.42	16.15	15.87	-23.42	-3,081.67	1,607.86	3,475.88	3,443.88	32.00	108.608		
7,300.00	7,299.87	7,281.66	7,329.93	16.23	15.99	-23.58	-3,081.27	1,607.69	3,472.33	3,440.27	32.05	108.326		
7,350.00	7,349.25	7,330.66	7,378.93	16.32	16.11	-23.94	-3,080.89	1,607.52	3,464.81	3,432.88	31.93	108.525		
7,400.00	7,397.77	7,378.77	7,427.03	16.41	16.22	-24.50	-3,080.51	1,607.35	3,453.38	3,421.76	31.63	109.189		
7,450.00	7,445.06	7,425.62	7,473.89	16.49	16.34	-25.29	-3,080.15	1,607.19	3,438.15	3,406.98	31.17	110.291		
7,500.00	7,490.76	7,470.86	7,519.13	16.58	16.45	-26.32	-3,079.80	1,607.04	3,419.23	3,388.64	30.59	111.777		
7,550.00	7,534.52	7,514.16	7,562.42	16.66	16.55	-27.64	-3,079.47	1,606.90	3,396.78	3,366.87	29.91	113.554		
7,600.00	7,576.00	7,555.16	7,603.43	16.77	16.65	-29.29	-3,079.16	1,606.76	3,370.99	3,341.79	29.20	115.452		
7,650.00	7,614.90	7,593.58	7,641.84	16.90	16.74	-31.34	-3,078.88	1,606.64	3,342.06	3,313.55	28.52	117.197		
7,700.00	7,650.92	7,629.11	7,677.37	17.06	16.83	-33.86	-3,078.62	1,606.52	3,310.24	3,282.27	27.97	118.366		
7,750.00	7,683.78	7,661.48	7,709.74	17.24	16.91	-36.96	-3,078.38	1,606.42	3,275.78	3,248.11	27.67	118.398		
7,800.00	7,713.23	7,690.45	7,738.71	17.46	16.98	-40.76	-3,078.17	1,606.33	3,238.96	3,211.20	27.76	116.695		
7,850.00	7,739.05	7,715.80	7,764.05	17.71	17.04	-45.40	-3,077.99	1,606.25	3,200.08	3,171.73	28.36	112.853		
7,900.00	7,761.04	7,737.33	7,785.58	18.00	17.09	-51.04	-3,077.83	1,606.18	3,159.47	3,129.94	29.53	106.976		
7,950.00	7,779.03	7,754.87	7,803.13	18.33	17.13	-57.79	-3,077.71	1,606.12	3,117.44	3,086.21	31.24	99.801		
8,000.00	7,792.89	7,768.30	7,816.56	18.70	17.16	-65.69	-3,077.61	1,606.08	3,074.34	3,041.10	33.24	92.493		
8,050.00	7,802.52	7,777.52	7,825.77	19.10	17.19	-74.58	-3,077.54	1,606.05	3,030.51	2,995.36	35.16	86.204		
8,100.00	7,807.83	7,782.44	7,830.69	19.54	17.20	-84.06	-3,077.51	1,606.04	2,986.30	2,949.75	36.55	81.698		
8,146.56	7,808.86	7,783.13	7,831.38	19.97	17.20	-92.93	-3,077.50	1,606.04	2,945.10	2,907.96	37.13	79.310		
8,200.00	7,807.88	7,781.76	7,830.02	20.51	17.20	-92.87	-3,077.51	1,606.04	2,898.01	2,860.34	37.66	76.944		
8,300.00	7,806.03	7,779.20	7,827.46	21.59	17.19	-92.76	-3,077.53	1,606.05	2,810.49	2,771.75	38.74	72.542		
8,400.00	7,804.19	7,776.64	7,824.90	22.77	17.18	-92.66	-3,077.55	1,606.06	2,723.83	2,683.91	39.92	68.227		
8,500.00	7,802.35	7,774.08	7,822.34	24.04	17.18	-92.55	-3,077.57	1,606.06	2,638.12	2,596.93	41.19	64.050		
8,600.00	7,800.50	7,771.52	7,819.78	25.39	17.17	-92.44	-3,077.59	1,606.07	2,553.44	2,510.91	42.53	60.043		
8,700.00	7,798.66	7,768.96	7,817.21	26.79	17.17	-92.34	-3,077.61	1,606.08	2,469.90	2,425.97	43.93	56.227		
8,800.00	7,796.81	7,766.39	7,814.65	28.25	17.16	-92.23	-3,077.62	1,606.09	2,387.62	2,342.24	45.38	52.614		

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 6H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3201' + KB 26' @ 3227.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3201' + KB 26' @ 3227.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1 Draft 1	Offset TVD Reference:	Reference Datum

Offset Design														Lone Tree Draw Offsets - Lone Tree #1 - OH - OH		Offset Site Error: 0.00 usft	
Survey Program: 100-NS-GYRO-MS																Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis			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				
8,900.00	7,794.97	7,763.83	7,812.09	29.75	17.15	-92.13	-3,077.64	1,606.10	2,306.75	2,259.87	46.88	49.208					
9,000.00	7,793.13	7,761.26	7,809.52	31.29	17.15	-92.02	-3,077.66	1,606.10	2,227.42	2,179.01	48.41	46.008					
9,100.00	7,791.28	7,758.70	7,806.95	32.87	17.14	-91.91	-3,077.68	1,606.11	2,149.82	2,099.84	49.98	43.010					
9,200.00	7,789.44	7,756.13	7,804.39	34.47	17.13	-91.81	-3,077.70	1,606.12	2,074.13	2,022.55	51.58	40.211					
9,300.00	7,787.60	7,753.56	7,801.82	36.10	17.13	-91.70	-3,077.71	1,606.13	2,000.58	1,947.37	53.20	37.602					
9,400.00	7,785.75	7,750.99	7,799.25	37.74	17.12	-91.59	-3,077.73	1,606.14	1,929.40	1,874.55	54.85	35.177					
9,500.00	7,783.91	7,748.42	7,796.68	39.41	17.12	-91.49	-3,077.75	1,606.14	1,860.87	1,804.36	56.51	32.929					
9,600.00	7,782.07	7,745.85	7,794.11	41.10	17.11	-91.38	-3,077.77	1,606.15	1,795.30	1,737.11	58.19	30.852					
9,700.00	7,780.22	7,743.28	7,791.54	42.80	17.10	-91.27	-3,077.79	1,606.16	1,733.01	1,673.12	59.88	28.939					
9,800.00	7,778.38	7,740.71	7,788.97	44.51	17.10	-91.17	-3,077.81	1,606.17	1,674.38	1,612.79	61.59	27.185					
9,900.00	7,776.54	7,738.14	7,786.39	46.23	17.09	-91.06	-3,077.83	1,606.18	1,619.80	1,556.49	63.31	25.585					
10,000.00	7,774.69	7,735.56	7,783.82	47.96	17.09	-90.95	-3,077.84	1,606.19	1,569.69	1,504.66	65.04	24.135					
10,100.00	7,772.85	7,732.99	7,781.24	49.71	17.08	-90.85	-3,077.86	1,606.19	1,524.51	1,457.73	66.78	22.830					
10,200.00	7,771.01	7,730.41	7,778.67	51.46	17.07	-90.74	-3,077.88	1,606.20	1,484.68	1,416.16	68.52	21.667					
10,300.00	7,769.16	7,727.83	7,776.09	53.21	17.07	-90.63	-3,077.90	1,606.21	1,450.67	1,380.39	70.27	20.643					
10,400.00	7,767.32	7,725.26	7,773.51	54.98	17.06	-90.52	-3,077.92	1,606.22	1,422.88	1,350.84	72.03	19.753					
10,500.00	7,765.48	7,722.68	7,770.93	56.75	17.05	-90.42	-3,077.94	1,606.23	1,401.68	1,327.88	73.80	18.993					
10,600.00	7,763.63	7,720.10	7,768.35	58.53	17.05	-90.31	-3,077.95	1,606.23	1,387.38	1,311.81	75.57	18.359					
10,700.00	7,761.79	7,717.52	7,765.77	60.31	17.04	-90.20	-3,077.97	1,606.24	1,380.19	1,302.84	77.35	17.844					
10,749.57	7,760.87	7,716.24	7,764.49	61.19	17.04	-90.15	-3,077.98	1,606.25	1,379.30	1,301.07	78.23	17.632 CC, ES					
10,800.00	7,759.95	7,714.93	7,763.19	62.09	17.04	-90.10	-3,077.99	1,606.25	1,380.22	1,301.09	79.13	17.443					
10,900.00	7,758.10	7,712.35	7,760.61	63.88	17.03	-89.99	-3,078.01	1,606.26	1,387.47	1,306.56	80.91	17.148					
11,000.00	7,756.26	7,709.77	7,758.03	65.68	17.02	-89.88	-3,078.03	1,606.27	1,401.83	1,319.14	82.70	16.951					
11,100.00	7,754.41	7,707.18	7,755.44	67.48	17.02	-89.77	-3,078.05	1,606.27	1,423.09	1,338.60	84.49	16.844					
11,200.00	7,752.57	7,704.60	7,752.86	69.28	17.01	-89.67	-3,078.07	1,606.28	1,450.94	1,364.65	86.28	16.816 SF					
11,300.00	7,750.73	7,702.01	7,750.27	71.08	17.00	-89.56	-3,078.08	1,606.29	1,485.00	1,396.92	88.08	16.860					
11,400.00	7,748.88	7,699.42	7,747.68	72.89	17.00	-89.45	-3,078.10	1,606.30	1,524.87	1,435.00	89.88	16.966					
11,500.00	7,747.04	7,698.84	7,745.09	74.70	16.99	-89.34	-3,078.12	1,606.31	1,570.11	1,478.43	91.68	17.126					
11,600.00	7,745.20	7,694.25	7,742.50	76.51	16.99	-89.24	-3,078.14	1,606.32	1,620.25	1,526.77	93.48	17.332					
11,700.00	7,743.35	7,691.66	7,739.91	78.32	16.98	-89.13	-3,078.16	1,606.32	1,674.87	1,579.58	95.29	17.577					
11,800.00	7,741.51	7,689.07	7,737.32	80.14	16.97	-89.02	-3,078.18	1,606.33	1,733.53	1,636.44	97.10	17.854					
11,900.00	7,739.67	7,686.47	7,734.73	81.96	16.97	-88.91	-3,078.20	1,606.34	1,795.85	1,696.94	98.90	18.157					
12,000.00	7,737.82	7,683.88	7,732.14	83.78	16.96	-88.81	-3,078.22	1,606.35	1,861.45	1,760.74	100.71	18.482					
12,100.00	7,735.98	7,681.29	7,729.55	85.60	16.95	-88.70	-3,078.23	1,606.36	1,930.00	1,827.48	102.53	18.825					
12,200.00	7,734.14	7,678.69	7,726.95	87.42	16.95	-88.59	-3,078.25	1,606.36	2,001.20	1,896.86	104.34	19.180					
12,300.00	7,732.29	7,676.10	7,724.36	89.25	16.94	-88.48	-3,078.27	1,606.37	2,074.78	1,968.62	106.15	19.545					
12,370.13	7,731.00	7,674.28	7,722.54	90.53	16.94	-88.41	-3,078.29	1,606.38	2,127.66	2,020.24	107.42	19.806					

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 6H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3201' + KB 26' @ 3227.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3201' + KB 26' @ 3227.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1 Draft 1	Offset TVD Reference:	Reference Datum

Offset Design Lone Tree Draw Offsets - Lone Tree Draw 13 State #3H - OH - OH													Offset Site Error: 0.00 usft
Survey Program: 100-NS-GYRO-MS, 4452-MWD-ISCWSA, 9564-Project													Offset Well Error: 0.00 usft
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	23.00	0.00	0.00	88.70	33.88	1,492.57	1,493.13				
100.00	100.00	72.41	95.40	0.08	0.08	88.69	34.12	1,492.67	1,493.07	1,492.91	0.16	9,212.452	
200.00	200.00	172.98	195.98	0.31	0.30	88.66	34.92	1,493.01	1,493.42	1,492.81	0.61	2,446.037	
300.00	300.00	272.79	295.78	0.53	0.57	88.63	35.79	1,493.23	1,493.67	1,492.57	1.10	1,358.803	
400.00	400.00	376.19	399.16	0.76	0.84	88.56	37.48	1,493.41	1,493.88	1,492.29	1.59	936.686	
489.13	489.13	466.11	489.08	0.96	1.07	88.51	38.85	1,493.37	1,493.88	1,491.85	2.03	735.854	
500.00	500.00	478.92	499.88	0.98	1.10	88.50	38.99	1,493.37	1,493.88	1,491.80	2.08	717.248	
600.00	600.00	572.54	595.50	1.21	1.35	88.46	40.22	1,493.46	1,494.01	1,491.45	2.56	583.700	
700.00	700.00	675.39	698.33	1.43	1.62	88.39	41.98	1,493.70	1,494.29	1,491.24	3.06	488.945	
800.00	800.00	775.59	798.52	1.66	1.89	88.32	43.90	1,493.71	1,494.35	1,490.81	3.55	421.441	
900.00	900.00	869.98	892.89	1.88	2.14	88.26	45.46	1,493.80	1,494.61	1,490.59	4.02	371.742	
1,000.00	1,000.00	979.45	1,002.34	2.11	2.43	88.17	47.64	1,494.18	1,494.94	1,490.41	4.53	329.878	
1,100.00	1,100.00	1,090.08	1,112.95	2.33	2.70	88.10	49.57	1,493.51	1,494.39	1,489.36	5.03	298.992	
1,200.00	1,200.00	1,197.67	1,220.52	2.56	2.95	88.04	51.19	1,492.25	1,493.27	1,487.76	5.50	271.349	
1,300.00	1,300.00	1,299.71	1,322.54	2.78	3.16	87.99	52.38	1,490.73	1,491.82	1,485.88	5.94	251.061	
1,400.00	1,400.00	1,394.18	1,417.00	3.01	3.35	87.96	53.11	1,489.45	1,490.49	1,484.14	6.36	234.439	
1,500.00	1,500.00	1,501.77	1,524.57	3.23	3.58	87.92	53.98	1,487.94	1,489.12	1,482.31	6.81	218.698	
1,600.00	1,600.00	1,604.30	1,627.08	3.45	3.81	87.87	55.17	1,486.11	1,487.38	1,480.12	7.26	204.783	
1,700.00	1,700.00	1,702.95	1,725.71	3.68	4.04	87.82	56.47	1,484.32	1,485.62	1,477.90	7.72	192.495	
1,800.00	1,800.00	1,815.24	1,837.97	3.90	4.28	87.78	57.43	1,481.75	1,483.35	1,475.17	8.18	181.277	
1,900.00	1,900.00	1,906.65	1,929.35	4.13	4.47	87.76	57.97	1,479.69	1,481.12	1,472.53	8.59	172.327	
2,000.00	2,000.00	2,014.09	2,036.76	4.35	4.69	87.74	58.38	1,477.14	1,478.75	1,469.71	9.04	163.577	
2,100.00	2,100.00	2,100.00	2,122.65	4.58	4.87	87.72	58.63	1,475.47	1,476.81	1,467.37	9.44	156.391	
2,200.00	2,200.00	2,207.73	2,230.37	4.80	5.08	87.72	58.65	1,473.57	1,475.04	1,465.16	9.88	149.230	
2,300.00	2,300.00	2,300.00	2,322.62	5.03	5.28	87.71	58.79	1,472.00	1,473.34	1,463.04	10.30	142.993	
2,400.00	2,400.00	2,388.67	2,411.28	5.25	5.48	87.70	59.06	1,471.05	1,472.28	1,461.55	10.73	137.225	
2,500.00	2,500.00	2,490.89	2,513.29	5.48	5.70	87.70	59.08	1,470.25	1,471.49	1,460.32	11.17	131.724	
2,600.00	2,600.00	2,601.98	2,624.58	5.70	5.93	87.70	58.96	1,468.83	1,470.22	1,458.60	11.63	126.463	
2,700.00	2,700.00	2,702.88	2,725.47	5.93	6.13	87.71	58.62	1,467.13	1,468.52	1,456.47	12.05	121.872	
2,800.00	2,800.00	2,804.63	2,827.19	6.15	6.33	87.73	58.19	1,465.31	1,466.72	1,454.24	12.48	117.555	
2,900.00	2,900.00	2,800.00	2,922.55	6.38	6.53	87.74	57.85	1,463.65	1,464.97	1,452.07	12.90	113.578	
3,000.00	3,000.00	2,990.28	3,012.83	6.60	6.72	87.74	57.60	1,462.52	1,463.71	1,450.40	13.31	109.947	
3,100.00	3,100.00	3,094.50	3,117.04	6.83	6.95	87.75	57.50	1,461.52	1,462.75	1,448.98	13.77	106.235	
3,200.00	3,200.00	3,201.94	3,224.47	7.05	7.20	87.74	57.57	1,459.99	1,461.33	1,447.08	14.25	102.558	
3,300.00	3,300.00	3,300.00	3,322.52	7.28	7.43	87.74	57.54	1,458.38	1,459.69	1,444.99	14.70	99.274	
3,400.00	3,400.00	3,395.11	3,417.62	7.50	7.65	87.75	57.31	1,457.06	1,458.29	1,443.15	15.14	96.306	
3,500.00	3,500.00	3,496.96	3,519.46	7.73	7.88	87.75	57.11	1,455.78	1,457.03	1,441.43	15.60	93.401	
3,600.00	3,600.00	3,598.34	3,618.83	7.95	8.12	87.76	57.01	1,454.48	1,455.71	1,439.65	16.06	90.640	
3,700.00	3,700.00	3,695.38	3,717.86	8.17	8.36	87.75	57.05	1,453.22	1,454.45	1,437.92	16.53	87.993	
3,800.00	3,800.00	3,796.25	3,818.72	8.40	8.61	87.75	57.08	1,451.96	1,453.20	1,436.20	17.00	85.470	
3,900.00	3,900.00	3,897.02	3,919.48	8.62	8.85	87.75	57.02	1,450.63	1,451.88	1,434.41	17.47	83.093	
4,000.00	4,000.00	3,895.66	4,018.12	8.85	9.10	87.75	57.06	1,449.35	1,450.59	1,432.64	17.94	80.838	
4,100.00	4,100.00	4,098.01	4,120.45	9.07	9.36	87.74	57.21	1,447.99	1,449.26	1,430.83	18.43	78.639	
4,200.00	4,200.00	4,200.64	4,223.08	9.30	9.63	87.73	57.42	1,446.44	1,447.76	1,428.84	18.92	76.533	
4,300.00	4,300.00	4,305.22	4,327.63	9.52	9.89	87.72	57.56	1,444.58	1,446.00	1,426.59	19.41	74.508	
4,400.00	4,400.00	4,404.10	4,426.50	9.75	10.09	87.72	57.36	1,442.75	1,444.13	1,424.30	19.83	72.816	
4,500.00	4,500.00	4,522.88	4,544.87	9.97	10.16	88.03	49.62	1,440.36	1,441.91	1,421.79	20.12	71.658	
4,600.00	4,600.00	4,619.34	4,637.99	10.20	10.20	89.00	25.13	1,438.47	1,439.19	1,418.82	20.37	70.647	
4,700.00	4,700.00	4,718.59	4,726.99	10.42	10.26	90.73	-18.34	1,435.68	1,436.05	1,415.37	20.69	69.422	
4,741.62	4,741.62	4,736.00	4,741.62	10.52	10.29	91.11	-27.77	1,435.38	1,435.65	1,414.84	20.80	69.005 CC, ES	
4,800.00	4,800.00	4,768.00	4,767.63	10.65	10.35	91.85	-46.40	1,435.23	1,436.34	1,415.34	21.00	68.404	

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 6H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3201' + KB 26' @ 3227.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3201' + KB 26' @ 3227.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1 Draft 1	Offset TVD Reference:	Reference Datum

Offset Design: Lone Tree Draw Offsets - Lone Tree Draw 13 State #3H - OH - OH												Offset Site Error:	0.00 usft
Survey Program: 100-NS-GYRO-MS, 4452-MWD-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)	Depth (usft)	Depth (usft)	Reference (usft)	Offset (usft)	Tooface (")	+N-S (usft)	+E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor	
4,900.00	4,900.00	4,807.37	4,798.08	10.87	10.45	92.84	-71.33	1,435.77	1,441.15	1,419.83	21.32	67.585	
5,000.00	5,000.00	4,880.13	4,849.38	11.10	10.71	94.89	-122.83	1,436.67	1,449.75	1,427.95	21.80	66.490	
5,100.00	5,100.00	4,926.00	4,877.44	11.32	10.93	96.32	-159.09	1,436.79	1,462.60	1,440.35	22.25	65.749	
5,200.00	5,200.00	4,957.00	4,894.04	11.55	11.12	97.35	-185.26	1,436.88	1,480.73	1,458.09	22.65	65.383	
5,300.00	5,300.00	4,974.03	4,902.27	11.77	11.24	97.93	-200.16	1,436.96	1,504.36	1,481.38	22.98	65.458	
5,400.00	5,400.00	4,989.00	4,908.99	12.00	11.34	98.45	-213.54	1,437.05	1,533.56	1,510.26	23.30	65.809	
5,500.00	5,500.00	5,006.12	4,916.17	12.22	11.47	99.06	-229.08	1,437.28	1,568.16	1,544.50	23.65	66.304	
5,600.00	5,600.00	5,020.00	4,921.64	12.45	11.58	99.55	-241.83	1,437.61	1,607.91	1,583.94	23.97	67.067	
5,700.00	5,700.00	5,031.80	4,926.09	12.67	11.68	99.97	-252.75	1,437.99	1,652.47	1,628.17	24.29	68.028	
5,800.00	5,800.00	5,051.00	4,933.00	12.89	11.84	100.65	-270.65	1,438.81	1,701.50	1,676.84	24.66	68.889	
5,900.00	5,900.00	5,051.00	4,933.00	13.12	11.84	100.65	-270.65	1,438.81	1,754.57	1,729.68	24.89	70.498	
6,000.00	6,000.00	5,067.16	4,938.45	13.34	11.99	101.23	-285.84	1,439.63	1,811.38	1,786.14	25.25	71.750	
6,100.00	6,100.00	5,083.00	4,943.43	13.57	12.13	101.80	-300.85	1,440.50	1,871.68	1,846.08	25.60	73.115	
6,200.00	6,200.00	5,083.00	4,943.43	13.79	12.13	101.80	-300.85	1,440.50	1,935.07	1,909.25	25.82	74.934	
6,300.00	6,300.00	5,094.73	4,946.84	14.02	12.25	102.22	-312.06	1,441.14	2,001.33	1,975.18	26.15	76.537	
6,400.00	6,400.00	5,101.95	4,948.79	14.24	12.32	102.48	-319.00	1,441.51	2,070.21	2,043.77	26.43	78.314	
6,500.00	6,500.00	5,115.00	4,952.02	14.47	12.44	102.95	-331.63	1,442.14	2,141.50	2,114.73	26.77	79.998	
6,600.00	6,600.00	5,115.00	4,952.02	14.69	12.44	102.95	-331.63	1,442.14	2,214.86	2,187.86	26.99	82.049	
6,700.00	6,700.00	5,115.00	4,952.02	14.92	12.44	102.95	-331.63	1,442.14	2,290.24	2,263.02	27.22	84.141	
6,800.00	6,800.00	5,115.00	4,952.02	15.14	12.44	102.95	-331.63	1,442.14	2,367.44	2,340.00	27.44	86.265	
6,900.00	6,900.00	5,130.21	4,955.32	15.37	12.60	103.50	-346.46	1,442.76	2,446.09	2,418.29	27.80	87.985	
7,000.00	7,000.00	5,147.00	4,958.38	15.59	12.78	104.12	-362.96	1,443.25	2,526.45	2,498.27	28.17	89.678	
7,100.00	7,100.00	5,147.00	4,958.38	15.82	12.78	104.12	-362.96	1,443.25	2,607.92	2,579.52	28.40	91.837	
7,200.00	7,200.00	5,147.00	4,958.38	16.04	12.78	104.12	-362.96	1,443.25	2,690.65	2,662.03	28.62	94.006	
7,236.00	7,236.00	5,147.00	4,958.38	16.12	12.78	104.12	-362.96	1,443.25	2,720.71	2,692.01	28.70	94.789	
7,250.00	7,250.00	5,147.00	4,958.38	16.15	12.78	-69.72	-362.96	1,443.25	2,732.41	2,703.44	28.97	94.321	
7,300.00	7,299.87	5,147.00	4,958.38	16.23	12.78	-62.97	-362.96	1,443.25	2,773.80	2,744.86	28.94	95.833	
7,350.00	7,349.25	5,147.00	4,958.38	16.32	12.78	-66.97	-362.96	1,443.25	2,814.35	2,785.47	28.88	97.437	
7,400.00	7,397.77	5,147.00	4,958.38	16.41	12.78	-51.76	-362.96	1,443.25	2,853.79	2,825.04	28.75	99.246	
7,450.00	7,445.06	5,147.00	4,958.38	16.49	12.78	-47.28	-362.96	1,443.25	2,891.89	2,863.35	28.53	101.360	
7,500.00	7,490.76	5,164.70	4,961.05	16.58	12.97	-43.19	-380.45	1,443.65	2,928.14	2,899.84	28.31	103.445	
7,550.00	7,534.52	5,179.00	4,962.86	16.66	13.13	-39.81	-394.64	1,443.93	2,962.69	2,934.76	27.93	106.081	
7,600.00	7,576.00	5,179.00	4,962.86	16.77	13.13	-37.17	-394.64	1,443.93	2,995.05	2,967.69	27.36	109.475	
7,650.00	7,614.90	5,179.00	4,962.86	16.90	13.13	-34.95	-394.64	1,443.93	3,025.21	2,998.52	26.69	113.342	
7,700.00	7,650.92	5,179.00	4,962.86	17.06	13.13	-33.07	-394.64	1,443.93	3,053.00	3,027.06	25.94	117.678	
7,750.00	7,683.78	5,179.00	4,962.86	17.24	13.13	-31.51	-394.64	1,443.93	3,078.28	3,053.14	25.14	122.448	
7,800.00	7,713.23	5,206.27	4,965.43	17.46	13.45	-30.05	-421.78	1,444.49	3,100.25	3,075.78	24.47	126.712	
7,850.00	7,739.05	5,237.00	4,966.87	17.71	13.82	-28.85	-452.46	1,445.23	3,120.18	3,096.35	23.83	130.918	
7,900.00	7,761.04	5,237.00	4,966.87	18.00	13.82	-28.04	-452.46	1,445.23	3,136.38	3,113.30	23.07	135.932	
7,950.00	7,779.03	5,237.00	4,966.87	18.33	13.82	-27.40	-452.46	1,445.23	3,149.62	3,127.21	22.41	140.558	
8,000.00	7,792.89	5,237.00	4,966.87	18.70	13.82	-26.92	-452.46	1,445.23	3,159.85	3,137.97	21.88	144.397	
8,050.00	7,802.52	5,284.53	4,967.73	19.10	14.41	-26.50	-499.97	1,446.28	3,166.57	3,144.68	21.89	144.668	
8,100.00	7,807.83	5,332.00	4,968.21	19.54	15.01	-26.29	-547.43	1,446.97	3,169.60	3,147.47	22.13	143.230	
8,146.56	7,808.86	5,438.96	4,970.24	19.97	16.32	-26.23	-654.37	1,448.03	3,168.48	3,145.42	23.06	137.386	
8,200.00	7,807.88	5,503.71	4,972.33	20.51	17.11	-26.19	-719.08	1,448.64	3,164.57	3,140.72	23.85	132.706	
8,300.00	7,806.03	5,617.00	4,976.68	21.59	18.58	-26.13	-832.28	1,449.92	3,156.77	3,131.42	25.35	124.517	
8,400.00	7,804.19	5,711.00	4,980.64	22.77	19.92	-26.09	-926.18	1,451.47	3,148.88	3,122.06	26.82	117.413	
8,500.00	7,802.35	5,791.98	4,983.24	24.04	21.15	-26.04	-1,007.12	1,452.01	3,141.44	3,113.21	28.24	111.259	
8,600.00	7,800.50	5,896.25	4,985.46	25.39	22.72	-25.93	-1,111.36	1,451.01	3,134.28	3,104.40	29.88	104.883	
8,700.00	7,798.66	5,979.93	4,987.36	26.79	24.00	-25.85	-1,195.01	1,450.66	3,127.24	3,095.84	31.40	99.597	

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 6H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3201' + KB 26' @ 3227.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3201' + KB 26' @ 3227.00usft (Original Well Elev)
Site Error:	0.00' usft	North Reference:	Grid
Reference Well:	6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore:	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1 Draft 1	Offset TVD Reference:	Reference Datum

Offset Design														Offset Site Error: 0.00 usft	
Lone Tree Draw Offsets - Lone Tree Draw 13 State #3H - OH - OH														Offset Well Error: 0.00 usft	
Survey Program: 100-NS-GYRO-MS, 4452-MWD-ISCWSA, 9564-Project															
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
8,800.00	7,796.81	6,083.77	4,989.39	28.25	25.63	-25.75	-1,298.83	1,450.17	3,120.46	3,087.33	33.14	94.170			
8,900.00	7,794.97	6,224.45	4,991.23	29.75	27.85	-25.54	-1,439.41	1,445.45	3,113.08	3,077.90	35.18	88.493			
9,000.00	7,793.13	6,336.81	4,994.00	31.29	29.62	-25.37	-1,551.65	1,441.05	3,104.34	3,067.35	36.99	83.926			
9,100.00	7,791.28	6,429.15	4,997.04	32.87	31.11	-25.27	-1,643.92	1,439.65	3,095.95	3,057.27	38.68	80.037			
9,200.00	7,789.44	6,525.36	5,000.07	34.47	32.69	-25.16	-1,740.07	1,438.02	3,087.63	3,047.20	40.43	76.373			
9,300.00	7,787.60	6,617.49	5,003.10	36.10	34.21	-25.07	-1,832.15	1,437.16	3,079.52	3,037.35	42.16	73.040			
9,400.00	7,785.75	6,706.71	5,005.56	37.74	35.71	-24.97	-1,921.33	1,435.92	3,071.69	3,027.81	43.87	70.011			
9,500.00	7,783.91	6,823.11	5,008.45	39.41	37.66	-24.84	-2,037.67	1,433.92	3,064.03	3,018.20	45.83	66.855			
9,600.00	7,782.07	6,890.26	5,010.49	41.10	38.78	-24.77	-2,104.79	1,433.14	3,056.17	3,008.82	47.35	64.538			
9,700.00	7,780.22	6,942.00	5,011.22	42.80	39.64	-24.71	-2,156.52	1,432.73	3,049.85	3,001.11	48.74	62.572			
9,800.00	7,778.38	7,036.00	5,011.68	44.51	41.21	-24.60	-2,250.52	1,432.20	3,044.47	2,993.95	50.51	60.272			
9,900.00	7,776.54	7,124.58	5,011.90	46.23	42.71	-24.50	-2,339.10	1,431.81	3,039.36	2,987.13	52.24	58.184			
10,000.00	7,774.69	7,225.22	5,011.86	47.96	44.41	-24.37	-2,439.73	1,431.01	3,034.40	2,980.34	54.06	56.130			
10,100.00	7,772.85	7,336.27	5,011.90	49.71	46.26	-24.23	-2,550.78	1,429.68	3,029.21	2,973.25	55.96	54.136			
10,200.00	7,771.01	7,435.39	5,012.06	51.46	47.92	-24.10	-2,649.89	1,428.37	3,023.87	2,966.12	57.75	52.365			
10,300.00	7,769.16	7,534.06	5,012.37	53.21	49.59	-23.98	-2,748.55	1,427.60	3,018.63	2,959.09	59.54	50.697			
10,400.00	7,767.32	7,629.59	5,012.92	54.98	51.18	-23.87	-2,844.08	1,427.14	3,013.28	2,951.97	61.31	49.146			
10,500.00	7,765.48	7,700.95	5,012.77	56.75	52.39	-23.78	-2,915.44	1,426.78	3,008.66	2,945.79	62.87	47.854			
10,600.00	7,763.63	7,819.74	5,011.90	58.53	54.40	-23.61	-3,034.22	1,424.96	3,004.10	2,939.31	64.80	46.362			
10,700.00	7,761.79	7,920.91	5,011.16	60.31	56.10	-23.45	-3,135.36	1,422.82	2,999.34	2,932.79	66.55	45.067			
10,800.00	7,759.95	8,026.53	5,010.52	62.09	57.87	-23.28	-3,240.94	1,420.41	2,994.42	2,926.09	68.33	43.823			
10,900.00	7,758.10	8,126.61	5,010.28	63.88	59.56	-23.14	-3,341.01	1,418.68	2,989.41	2,919.33	70.08	42.659			
11,000.00	7,756.26	8,224.38	5,010.47	65.68	61.23	-23.02	-3,438.77	1,418.12	2,984.46	2,912.63	71.84	41.546			
11,100.00	7,754.41	8,323.30	5,010.80	67.48	62.92	-22.90	-3,537.70	1,417.99	2,979.58	2,905.97	73.61	40.477			
11,200.00	7,752.57	8,424.10	5,011.08	69.28	64.65	-22.79	-3,638.50	1,417.71	2,974.71	2,899.31	75.39	39.456			
11,300.00	7,750.73	8,528.98	5,011.19	71.08	66.45	-22.65	-3,743.37	1,416.72	2,969.75	2,892.57	77.18	38.479			
11,400.00	7,748.88	8,625.37	5,010.53	72.89	68.09	-22.48	-3,839.71	1,413.75	2,964.72	2,885.89	78.82	37.612			
11,500.00	7,747.04	8,725.20	5,009.83	74.70	69.79	-22.31	-3,939.50	1,410.96	2,959.83	2,879.34	80.49	36.772			
11,600.00	7,745.20	8,823.26	5,009.03	76.51	71.47	-22.13	-4,037.51	1,407.86	2,954.94	2,872.82	82.12	35.981			
11,700.00	7,743.35	8,917.32	5,007.68	78.32	73.08	-21.94	-4,131.46	1,403.78	2,950.21	2,866.53	83.68	35.255			
11,800.00	7,741.51	9,046.49	5,006.37	80.14	75.30	-21.68	-4,260.50	1,398.07	2,945.10	2,859.65	85.45	34.464			
11,900.00	7,739.67	9,142.01	5,006.29	81.96	76.94	-21.51	-4,355.97	1,394.96	2,939.59	2,852.55	87.04	33.772			
12,000.00	7,737.82	9,236.75	5,006.13	83.78	78.57	-21.34	-4,450.66	1,392.00	2,934.25	2,845.63	88.62	33.111			
12,100.00	7,735.98	9,327.70	5,005.76	85.60	80.12	-21.18	-4,541.57	1,389.23	2,929.17	2,839.01	90.16	32.490			
12,200.00	7,734.14	9,420.50	5,005.23	87.42	81.69	-21.02	-4,634.33	1,386.66	2,924.37	2,832.67	91.70	31.891			
12,300.00	7,732.29	9,513.36	5,004.45	89.25	83.00	-20.85	-4,727.16	1,384.06	2,919.85	2,826.77	93.08	31.369			
12,370.13	7,731.00	9,564.00	5,003.95	90.53	83.00	-20.76	-4,777.77	1,382.60	2,916.82	2,823.24	93.57	31.171 SF			

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

Leam Drilling Systems LLC

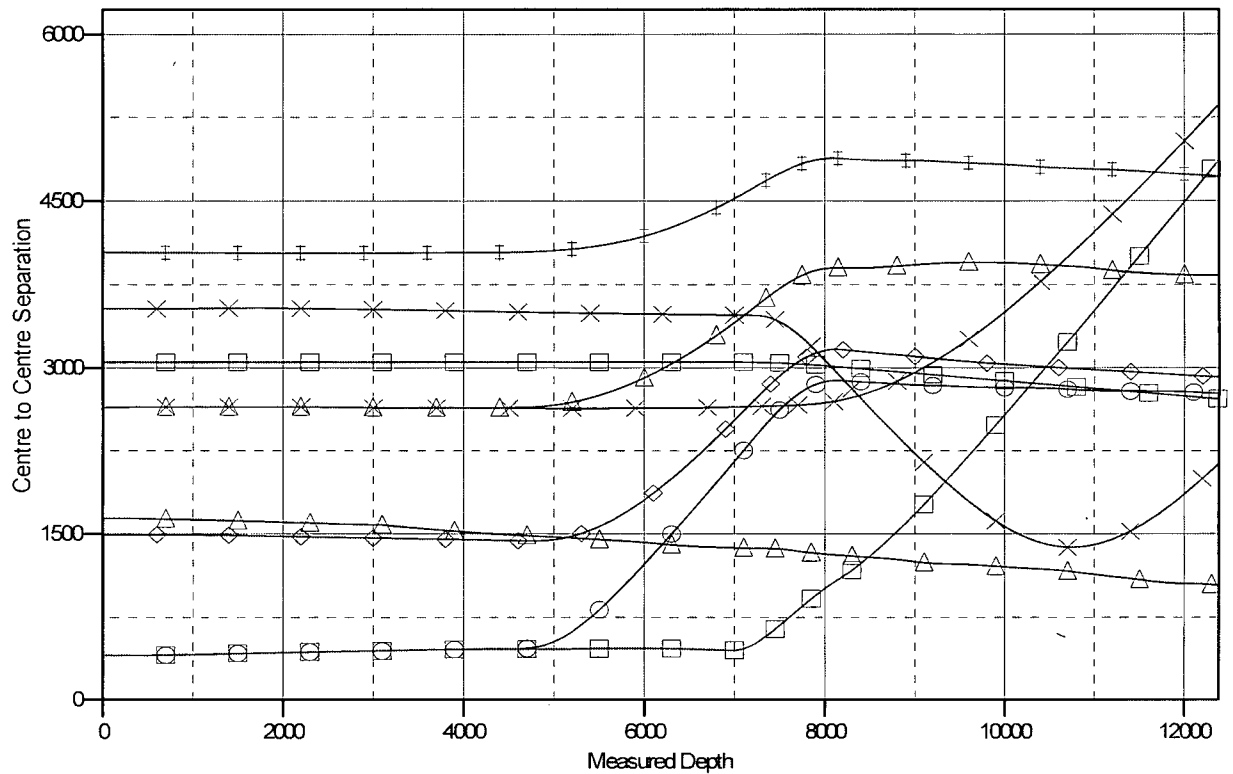
Anticollision Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 6H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3201' + KB 26' @ 3227.00usft (Original Well Elev)
Reference Site:	Lone Tree Draw "13" State	MD Reference:	GE 3201' + KB 26' @ 3227.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1 Draft 1	Offset TVD Reference:	Reference Datum

Reference Depths are relative to GE 3201' + KB 26' @ 3227.00usft (O)
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: 6H
Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Grid Convergence at Surface is: 0.10°

Ladder Plot



LEGEND

- 2H, OH, OH V0
- 2H, Pilot, Pilot V0
- △ 4H, OH, OH V0
- ✕ 4H, Pilot, Pilot V0
- ◆ 5H, OH, OH V0
- ✱ 6H, OH, OH V0
- ✚ 7H, OH, OH V0
- ◻ 8H, OH, Plan #1 V0
- ◈ Lone Tree Draw 13 State #3H, OH, OH V0
- ✖ Lone Tree #1, OH, OH V0

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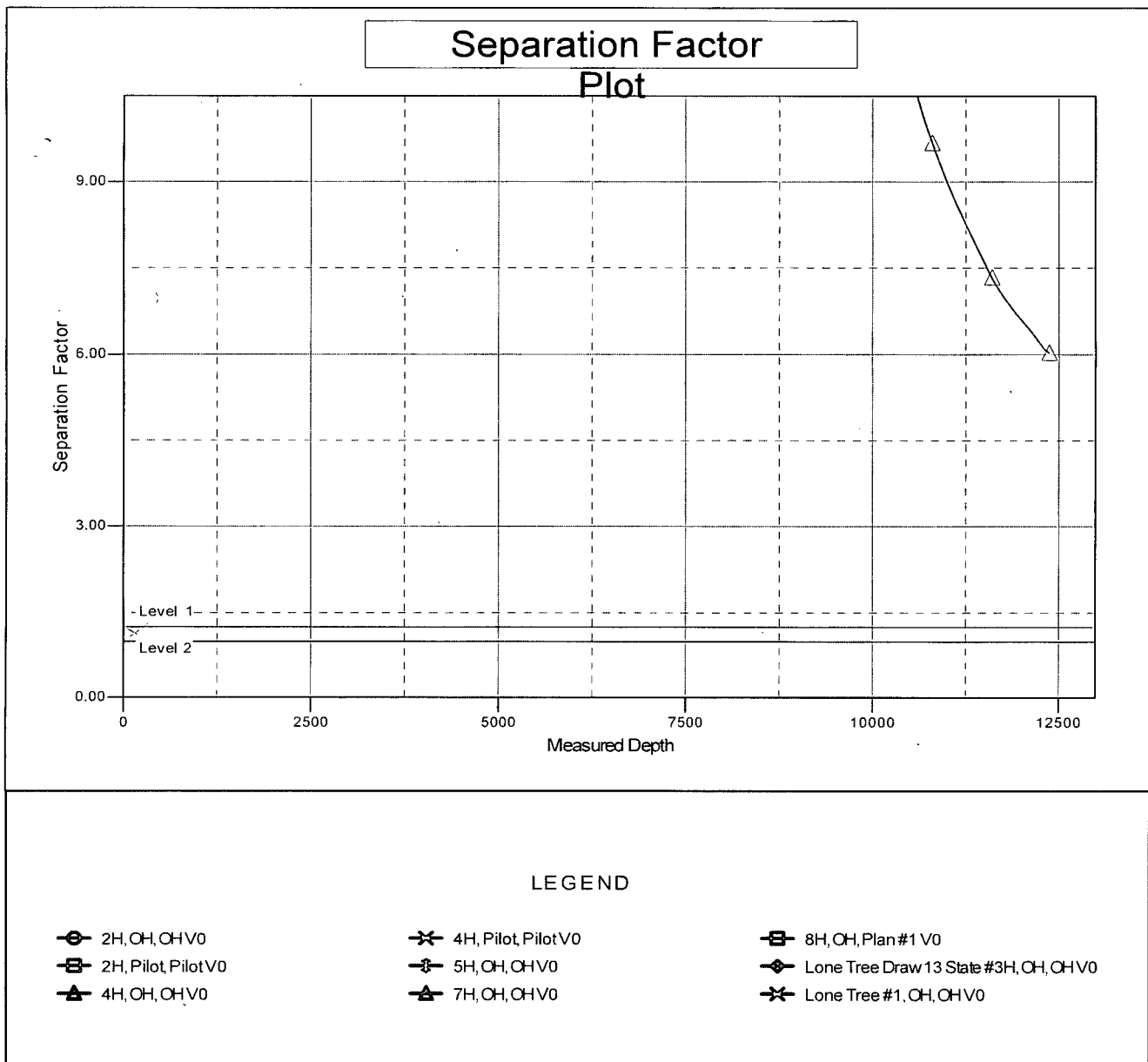
Leam Drilling Systems LLC

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