

Submit 1 Copy To Appropriate District Office
District I – (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II – (575) 748-1283
811 S. First St., Artesia, NM 88210
District III – (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV – (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised July 18, 2013

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		WELL API NO. 30-025-42786 ✓
1. Type of Well: Oil Well ☐ Gas Well ☒ Other ☐		5. Indicate Type of Lease STATE ☒ FEE ☐ ✓
2. Name of Operator Devon Energy Production Company, LP ✓		6. State Oil & Gas Lease No.
3. Address of Operator 333 West. Sheridan Avenue Oklahoma City, OK 73102-5015 405-552-7848		7. Lease Name or Unit Agreement Name Thistle Unit ✓
4. Well Location Unit Letter/Lot <u>A</u> : <u>250</u> feet from the <u>N</u> line and <u>400</u> feet from the <u>E</u> line Section <u>22</u> Township <u>23S</u> Range <u>33E</u> NMPM Lea County ✓		8. Well Number 126H ✓
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3707.1' GR		9. OGRID Number 6137 ✓
		10. Pool name or Wildcat Triple X; Bone Spring (59900) ✓

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☒
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐
CLOSED-LOOP SYSTEM ☐

OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐

OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Devon Energy Production Co., L.P. respectfully requests approval to change the bottom hole location from 2310 FNL & 350 FEL, Section 27, T23S, R33E, Unit H to 2590 FNL & 350 FEL, Section 27, T23S, R33E, Unit H.

Projected MD will change from 17,193' to 17,475'; TVD @ target will remain at 10,152'.

Please see the attached revised C-102, Drill Plan and Directional Survey.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE David H. Cook TITLE: Regulatory Specialist DATE 08/12/2016

Type or print name: David H. Cook E-mail address: david.cook@dmr.com PHONE: 405-552-7848

For State Use Only

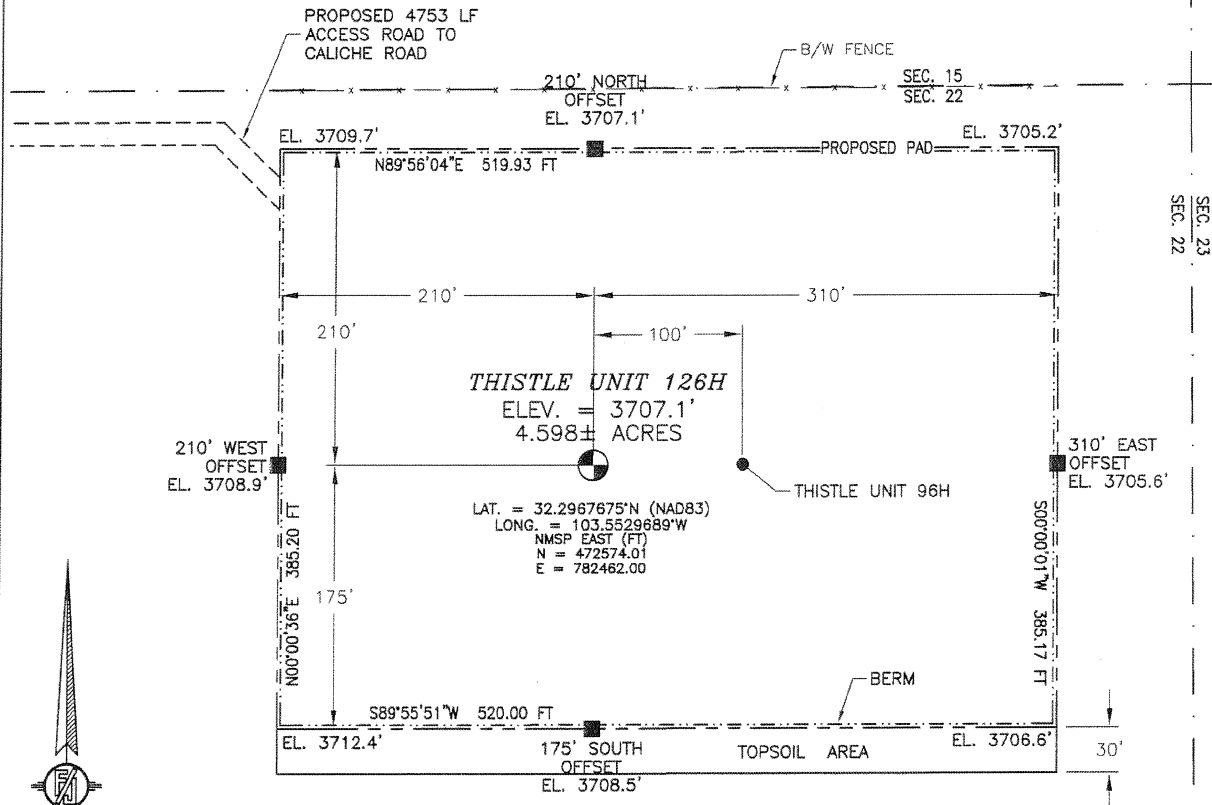
APPROVED BY: Blair TITLE: Petroleum Engineer DATE 08/11/2016

Conditions of Approval (if any):

KZ

SECTION 22, TOWNSHIP 23 SOUTH, RANGE 33 EAST, N.M.P.M.
LEA 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



0 12 60 120 240

SCALE 1" = 120'

DIRECTIONS TO LOCATION

FROM STATE HIGHWAY 128 AND CR 21 (DELAWARE BASIN) GO NORTH ON CR 21 3.95 MILES, TURN LEFT ON PAVED ROAD (XL ROAD) AND GO WEST 3.4 MILES, TURN RIGHT ON CALICHE ROAD AND GO NORTH 0.9 MILE, BEND LEFT AND NORTHWEST 0.15 MILE, BEND RIGHT AND GO NORTHEAST 0.1 MILE, BEND LEFT GO NORTH 0.95 MILE ON RIGHT SIDE BEGIN PROPOSED ROAD, FOLLOW EAST 4753' TO NORTHWEST PAD CORNER.

DEVON ENERGY PRODUCTION COMPANY, L.P.

THISTLE UNIT 126H

LOCATED 250 FT. FROM THE NORTH LINE
AND 400 FT. FROM THE EAST LINE OF
SECTION 22, TOWNSHIP 23 SOUTH,
RANGE 33 EAST, N.M.P.M.

LEA COUNTY, STATE OF NEW MEXICO

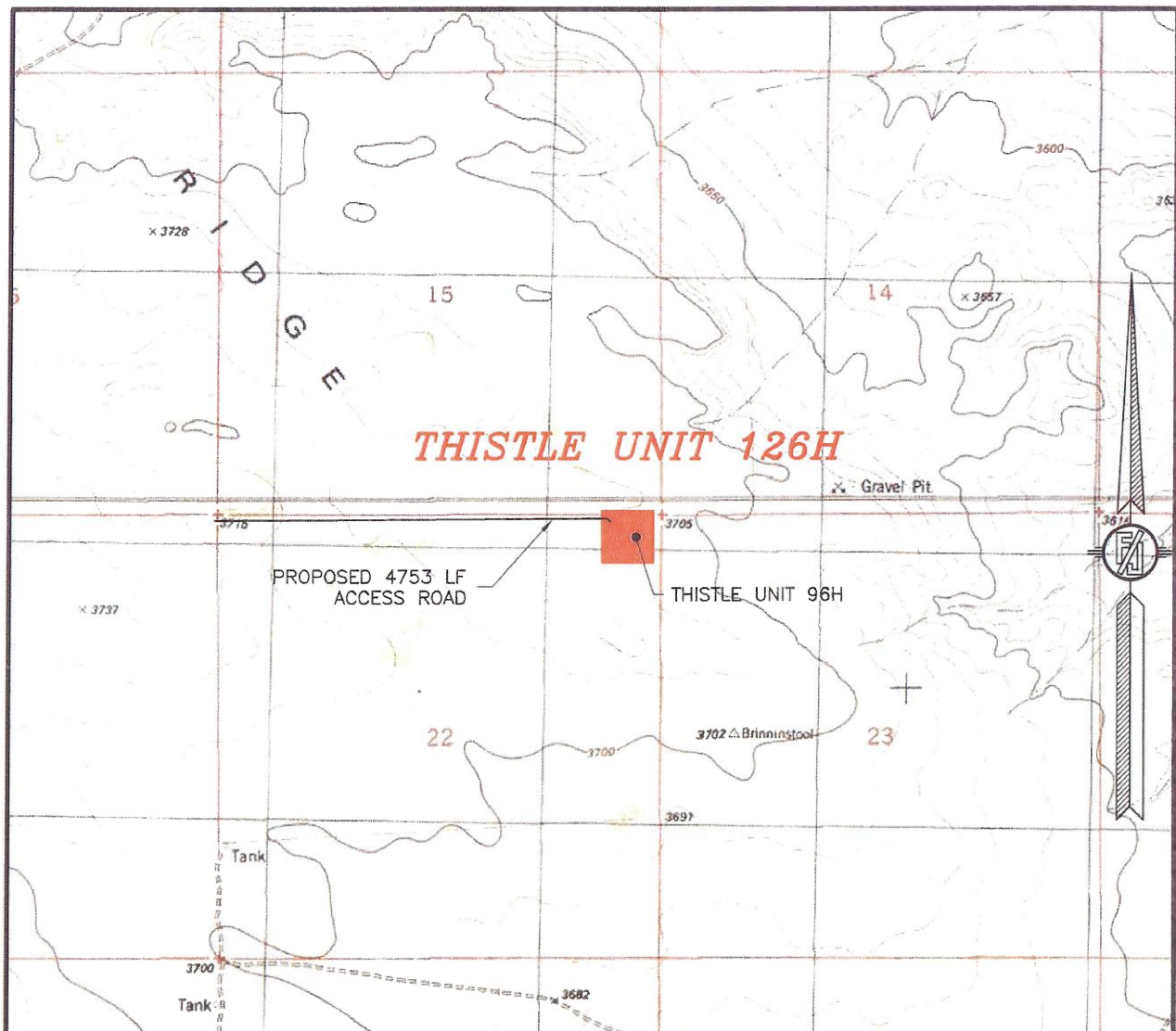
AUGUST 3, 2016

SURVEY NO. 3812D

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

CARLSBAD, NEW MEXICO

SECTION 22, TOWNSHIP 23 SOUTH, RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
LOCATION VERIFICATION MAP



USGS QUAD MAP:
TIP TOP WELLS

NOT TO SCALE

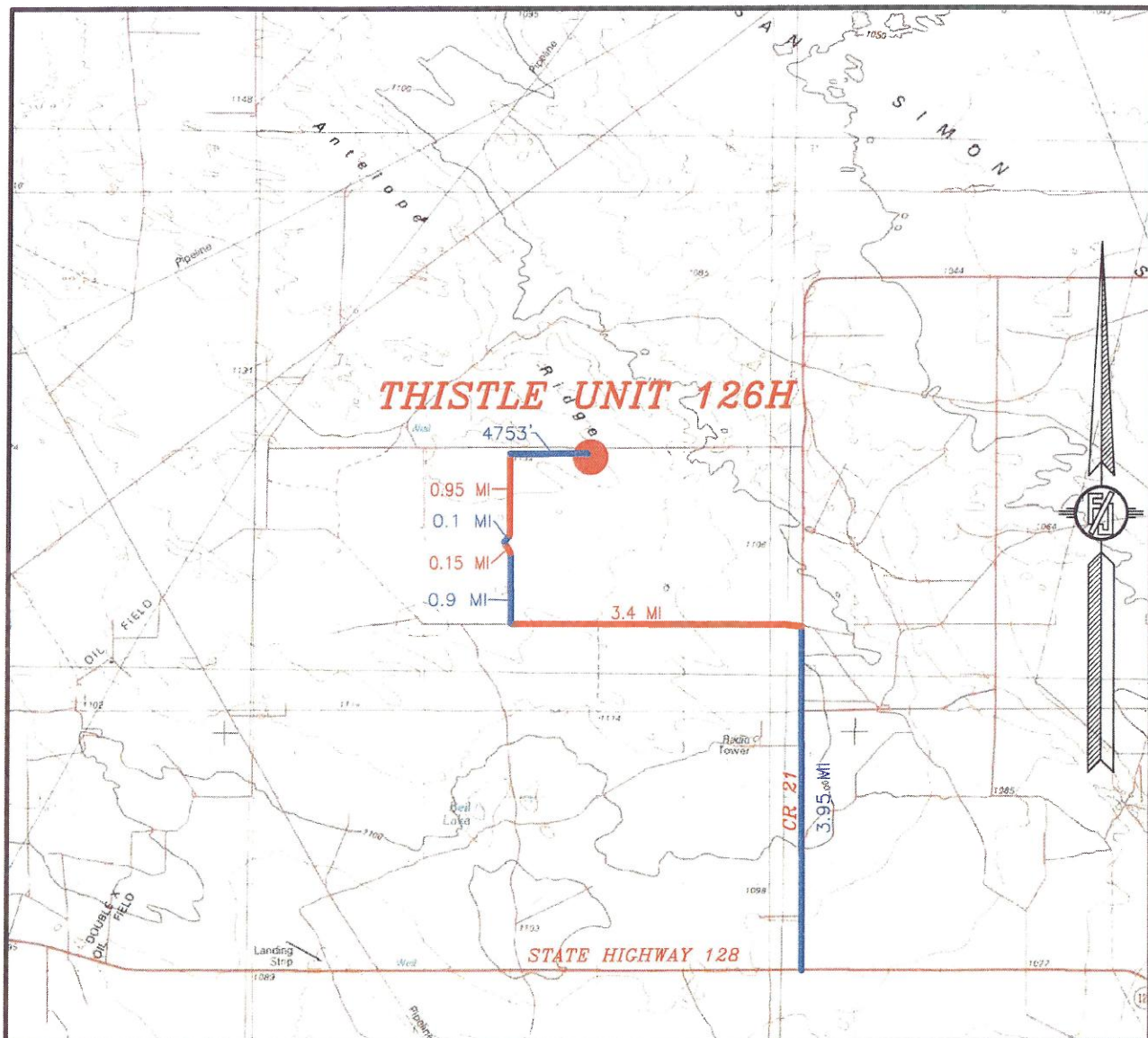
DEVON ENERGY PRODUCTION COMPANY, L.P.
THISTLE UNIT 126H

LOCATED 250 FT. FROM THE NORTH LINE
AND 400 FT. FROM THE EAST LINE OF
SECTION 22, TOWNSHIP 23 SOUTH,
RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

AUGUST 3, 2016

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO SURVEY NO. 3812D

SECTION 22, TOWNSHIP 23 SOUTH, RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
VICINITY MAP



DISTANCES IN MILES

NOT TO SCALE

DEVON ENERGY PRODUCTION COMPANY, L.P.

THISTLE UNIT 126H

LOCATED 250 FT. FROM THE NORTH LINE
AND 400 FT. FROM THE EAST LINE OF
SECTION 22, TOWNSHIP 23 SOUTH,
RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

DIRECTIONS TO LOCATION

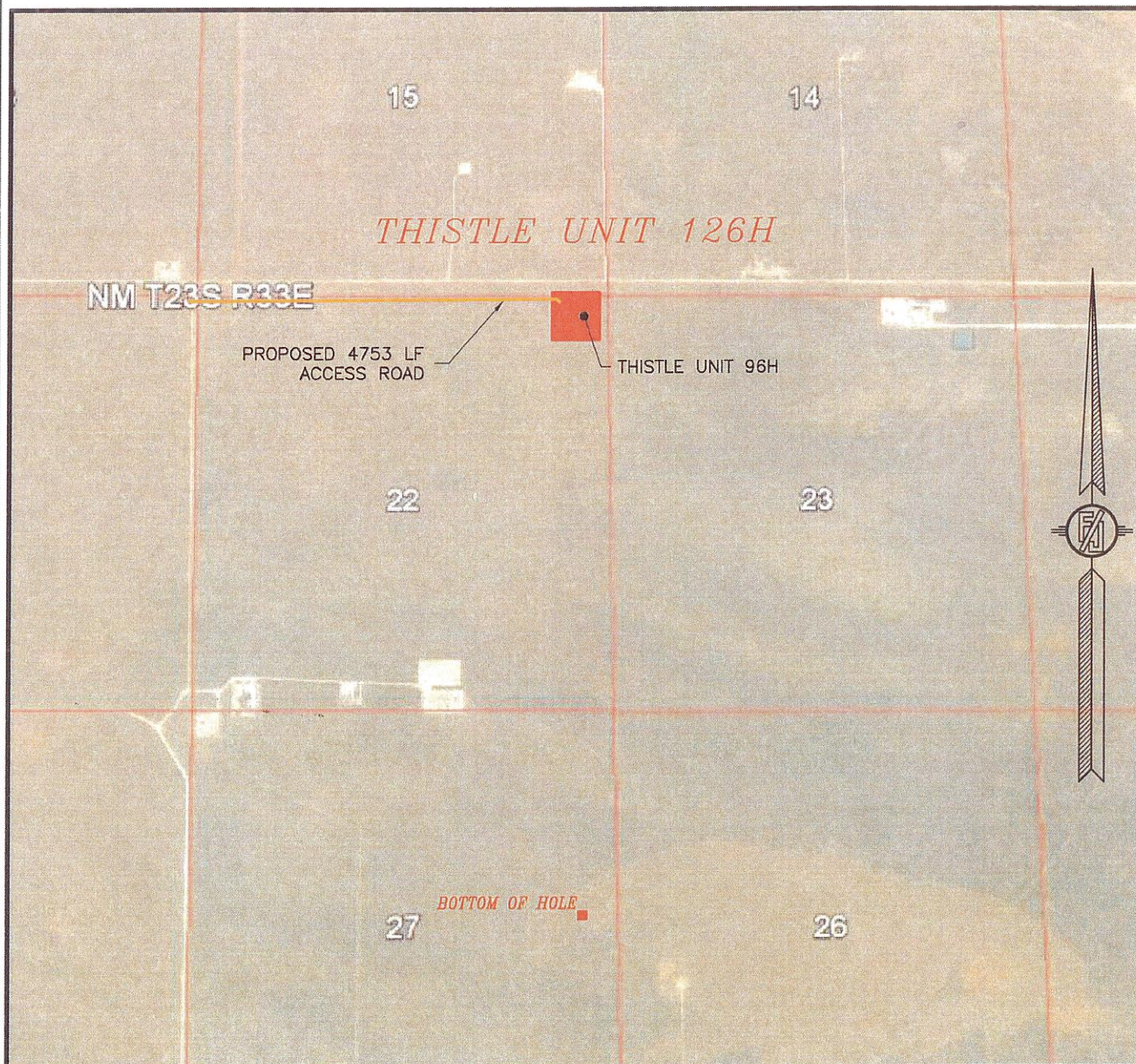
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AUGUST 3, 2016

SURVEY NO. 3812D

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

SECTION 22, TOWNSHIP 23 SOUTH, RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
AERIAL PHOTO



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
FEBRUARY 2014

DEVON ENERGY PRODUCTION COMPANY, L.P.

THISTLE UNIT 126H

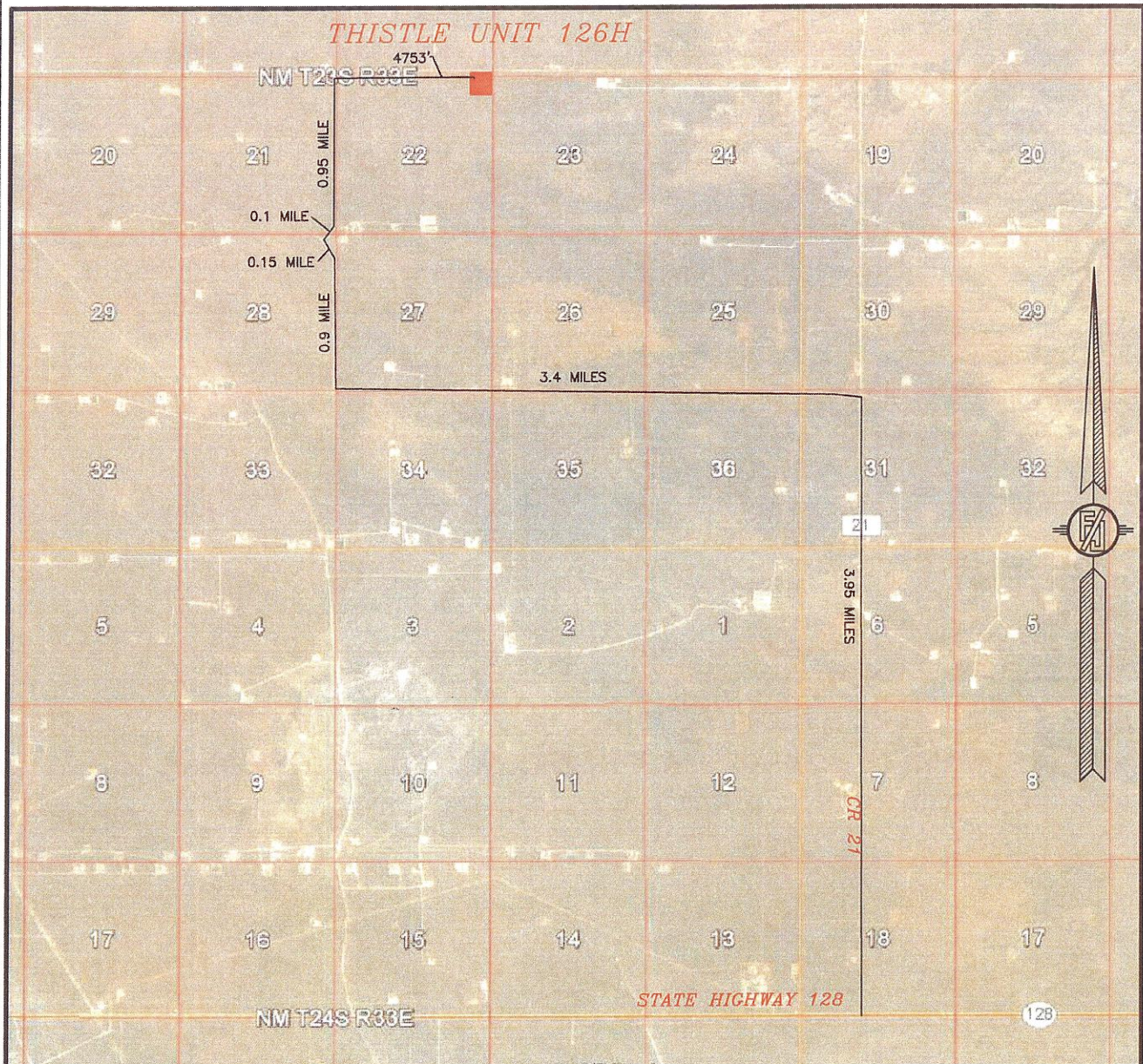
LOCATED 250 FT. FROM THE NORTH LINE
AND 400 FT. FROM THE EAST LINE OF
SECTION 22, TOWNSHIP 23 SOUTH,
RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

AUGUST 3, 2016

SURVEY NO. 3812D

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

SECTION 22, TOWNSHIP 23 SOUTH, RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
ACCESS AERIAL ROUTE MAP



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
FEBRUARY 2014

DEVON ENERGY PRODUCTION COMPANY, L.P.
THISTLE UNIT 126H

LOCATED 250 FT. FROM THE NORTH LINE
AND 400 FT. FROM THE EAST LINE OF
SECTION 22, TOWNSHIP 23 SOUTH,
RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

AUGUST 3, 2016

SURVEY NO. 3812D

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

Devon Energy, Thistle Unit 126H

1. Geologic Formations

TVD of target	10,152'	Pilot hole depth	N/A
MD at TD:	17,475'	Deepest expected fresh water:	

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Rustler	1,398		
Top of Salt	1,656		
Base of Salt	4,900		
Delaware	5,174		
Cherry Canyon	6,150		
LWR Brushy Canyon	8,942		
Bone Spring	9,131		
Mid Leonard Top	9,273		
Leonard B	9,695		
Leonard C	10,043		
1st BSPG Sand	10,276		

*H2S, water flows, loss of circulation, abnormal pressures, etc.

Devon Energy, Thistle Unit 126H

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
	From	To							
17.5"	0	1450'	13.375"	48	H-40	STC	1.32	2.98	7.77
12.25"	0	4,000'	9.625"	40	J-55	BTC	1.12	1.73	4.46
12.25"	4,000'	5,100'	9.625"	40	HCK-55	BTC	1.48	1.38	23.15
8.75"	0	17,475'	5.5"	17	P-110	BTC	1.75	2.17	2.74
BLM Minimum Safety Factor							1.125	1.00	1.6 Dry 1.8 Wet

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

Must have table for contingency casing

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

Devon Energy, Thistle Unit 126H

3. Cementing Program

Casing	# Sks	Wt. lb/gal	H ₂ O gal/sk	Yld ft ³ /sack	500# Comp. Strength (hours)	Slurry Description
13-3/8" Surface	760	14.8	6.32	1.33	6	Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake
13-3/8" Surface Two Stage	460	12.9	9.81	1.85	14	1 st Stage Lead: (65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sack Poly-E-Flake
	550	14.8	6.32	1.33	6	1 st Stage Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake
	DV Tool = 300ft					
	320	14.8	6.32	1.33	6	2 nd Stage Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake
9-5/8" Inter.	1230	12.9	9.81	1.85	14	Lead: (65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sack Poly-E-Flake
	430	14.8	6.32	1.33	6	Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake
5-1/2" Prod Single Stage	420	11.9	12.89	2.31	n/a	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
	1380	14.5	5.31	1.2	25	Tail: (50:50) Class H Cement: Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% BWOC HR-601 + 2% bwoc Bentonite
5-1/2" Prod Two Stage	390	11.9	12.89	2.31	n/a	1 st Stage 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
	1380	14.5	5.31	1.2	25	1 st Stage Tail: (50:50) Class H Cement: Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% BWOC HR-601 + 2% bwoc Bentonite
	DV Tool = 5250ft					
	20	11	14.81	2.55	22	2 nd Stage Lead: Tuned Light® Cement + 0.125 lb/sk Pol-E-Flake
	30	14.8	6.32	1.33	6	2 nd Stage Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake

If a DV tool is used, depth(s) will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. DV tool will be set a minimum of 50 feet below previous casing and a minimum of 200 feet above current shoe. Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.

Casing String	TOC	% Excess
13-3/8" Surface	0'	100%
13-3/8" Surface – Two Stage Option	1 st Stage = 300' / 2 nd Stage = 0'	100%
9-5/8" Intermediate	0'	75%
5-1/2" Production Casing Single Stage Option	4900'	25%
5-1/2" Production Casing Two Stage Option	1 st Stage = 5250' / 2 nd Stage = 4900'	25%

Devon Energy, Thistle Unit 126H

4. Pressure Control Equipment

N	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.
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BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	✓	Tested to:
12-1/4"	13-5/8"	3M	Annular	x	50% of working pressure
			Blind Ram		3M
			Pipe Ram		
			Double Ram	x	
			Other*		
8-3/4"	13-5/8"	3M	Annular	x	50% of working pressure
			Blind Ram		3M
			Pipe Ram		
			Double Ram	x	
			Other*		
			Annular		
			Blind Ram		
			Pipe Ram		
			Double Ram		
			Other*		

*Specify if additional ram is utilized.

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

Y	Formation integrity test will be performed per Onshore Order #2. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.
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Devon Energy, Thistle Unit 126H

Y	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.
Y	Are anchors required by manufacturer?
Y	A multibowl wellhead may be used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested. Devon proposes the option of using a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 3000 (3M) psi. - Wellhead will be installed by wellhead vendor representatives. - If the welding is performed by a third party, the wellhead representative will monitor the temperature to verify that it does not exceed the maximum temperature of the seal. - Wellhead representative will install the test plug for the initial BOP test. - Wellhead will install a solid steel body pack-off to completely isolate the lower head after cementing intermediate casing. After installation of the pack-off, the pack-off and the lower flange will be tested to 5M, as shown on the attached schematic. Everything above the pack-off will not have been altered whatsoever from the initial nipple up. Therefore the BOP components will not be retested at that time. - If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head will be cut and top out operations will be conducted. - Devon will pressure test all seals above and below the mandrel (but still above the casing) to full working pressure rating. - Devon will test the casing to 0.22 psi/ft or 1500 psi, whichever is greater, as per Onshore Order #2. After running the 13-3/8" surface casing, a 13-5/8" BOP/BOPE system with a minimum rating of 3M will be installed on the wellhead system and will undergo a 250 psi low pressure test followed by a 3,000 psi high pressure test. The 3,000 psi high and 250 psi low test will cover testing requirements a maximum of 30 days, as per Onshore Order #2. If the well is not complete within 30 days of this BOP test, another full BOP test will be conducted, as per Onshore Order #2. After running the 9-5/8" intermediate casing with a mandrel hanger, the 13-5/8" BOP/BOPE system with a minimum rating of 3M will already be installed on the wellhead. 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 Energy, Thistle Unit 126H

	Devon requests a variance to use a flexible line with flanged ends between the BOP and the choke manifold (choke line). The line will be kept as straight as possible with minimal turns
	See attached schematic.

5. Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0	1,450'	FW Gel	8.6-8.8	28-34	N/C
1,450'	5,200'	Saturated Brine	10.0-10.2	28-34	N/C
5,200'	17,475'	Cut Brine	8.5-9.3	28-34	N/C

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring
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6. Logging and Testing Procedures

Logging, Coring and Testing.	
x	Will run GR/CNL from TD to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.
	No Logs are planned based on well control or offset log information.
	Drill stem test? If yes, explain
	Coring? If yes, explain

Additional logs planned	Interval
Resistivity	Int. shoe to KOP
Density	Int. shoe to KOP
CBL	Production casing
X Mud log	Intermediate shoe to TD
PEX	

Devon Energy, Thistle Unit 126H

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	4,910 psi
Abnormal Temperature	No

Mitigation measure for abnormal conditions. Describe. Lost circulation material/sweeps/mud scavengers.

Hydrogen Sulfide (H ₂ S) monitors will be installed prior to drilling out the surface shoe. If H ₂ S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.	
N	H ₂ S is present
Y	H ₂ S Plan attached

8. Other facets of operation

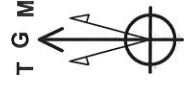
Is this a walking operation? Yes.

Will be pre-setting casing? No.

Attachments

☒ Directional Plan

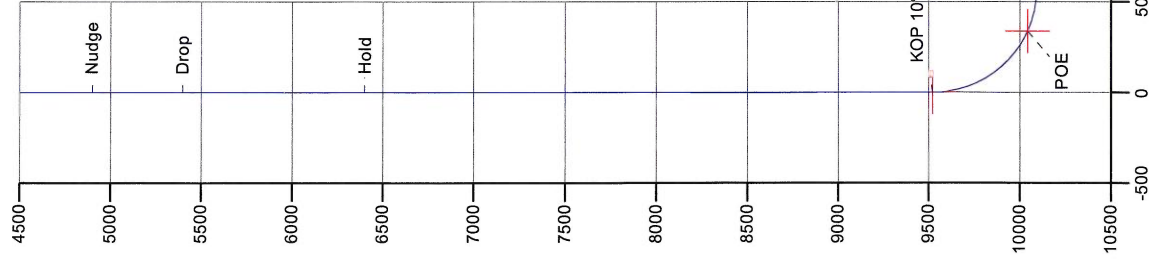
☐ Other, describe



Project: Lea County, NM (NAD-83)
Site: Thistle Unit
Well: 126H
Wellbore: OH
Design: Plan #1

Azimuths to Grid North
True North: -0.42°
Magnetic North: 6.53°

Magnetic Field
Strength: 48289.2snT
Dip Angle: 60.13°
Date: 8/4/2016
Model: HDGM

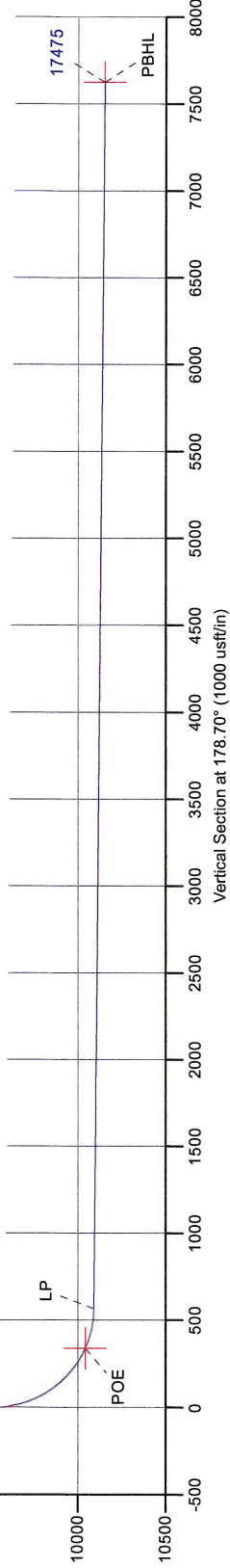
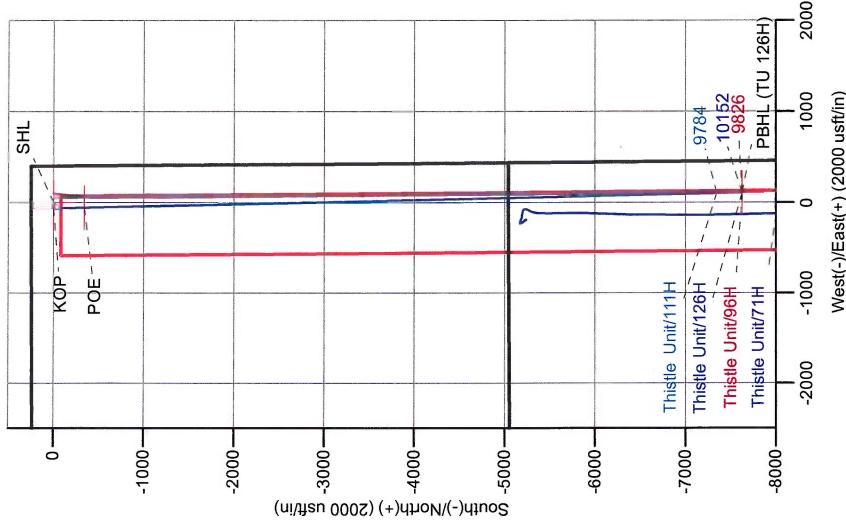


PROJECT DETAILS: Lea County, NM (NAD-83)	
Geodetic System: US State Plane 1983	
Datum: North American Datum 1983	
Ellipsoid: GRS 1980	
Zone: New Mexico Eastern Zone	

WELL DETAILS: 126H			
Northing	Ground Level:	Latitude	Longitude
472574.01	782462.00	32° 17' 48.363 N	103° 33' 10.688 W

SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4900.00	0.00	0.00	4900.00	0.00	0.00	0.00	0.00	0.00	
5400.00	5.00	270.00	5399.37	0.00	-21.80	1.00	270.00	-0.49	
6400.00	0.00	0.00	6398.10	0.00	-65.41	0.50	180.00	-1.48	
9521.96	0.00	0.00	9520.06	0.00	-65.41	0.00	0.00	-1.48	
10417.17	89.52	178.70	10093.00	-568.02	-52.55	10.00	178.70	566.68	
17474.81	89.52	178.70	10152.00	-7623.61	107.15	0.00	0.00	7624.08	

KOP: 250.03' FNL / 399.85' FEL
POE: 588.85' FNL / 397.42' FEL



DEVON ENERGY

Lea County, NM (NAD-83)

Thistle Unit

126H

OH

Plan: Plan #1

Standard Planning Report

04 August, 2016

LEAM Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 126H
Company:	DEVON ENERGY	TVD Reference:	3707.1' GL + 30' RKB @ 3732.10usft (Original Well Elev)
Project:	Lea County, NM (NAD-83)	MD Reference:	3707.1' GL + 30' RKB @ 3732.10usft (Original Well Elev)
Site:	Thistle Unit	North Reference:	Grid
Well:	126H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

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

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

Well	126H					
Well Position	+N/-S	4,547.11 usft	Northing:	472,574.01 usft	Latitude:	32° 17' 48.363 N
	+E/-W	1,739.44 usft	Easting:	782,462.00 usft	Longitude:	103° 33' 10.688 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	3,732.10 usft	Ground Level:	3,707.10 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	8/4/2016	6.95	60.13	48,289

Design	Plan #1				
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	0.00	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	178.70	

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,400.00	5.00	270.00	5,399.37	0.00	-21.80	1.00	1.00	0.00	270.00	
6,400.00	0.00	0.00	6,398.10	0.00	-65.41	0.50	-0.50	0.00	180.00	
9,521.96	0.00	0.00	9,520.06	0.00	-65.41	0.00	0.00	0.00	0.00	
10,417.17	89.52	178.70	10,093.00	-568.02	-52.55	10.00	10.00	19.96	178.70	
17,474.81	89.52	178.70	10,152.00	-7,623.61	107.15	0.00	0.00	0.00	0.00	PBHL (TU 126H)

LEAM Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 126H
Company:	DEVON ENERGY	TVD Reference:	3707.1' GL + 30' RKB @ 3732.10usft (Original Well Elev)
Project:	Lea County, NM (NAD-83)	MD Reference:	3707.1' GL + 30' RKB @ 3732.10usft (Original Well Elev)
Site:	Thistle Unit	North Reference:	Grid
Well:	126H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SHL (TU 126H)									
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,398.00	0.00	0.00	1,398.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler									
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,656.00	0.00	0.00	1,656.00	0.00	0.00	0.00	0.00	0.00	0.00
Top Salt									
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00

LEAM Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 126H
Company:	DEVON ENERGY	TVD Reference:	3707.1' GL + 30' RKB @ 3732.10usft (Original Well Elev)
Project:	Lea County, NM (NAD-83)	MD Reference:	3707.1' GL + 30' RKB @ 3732.10usft (Original Well Elev)
Site:	Thistle Unit	North Reference:	Grid
Well:	126H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
Nudge - Base Salt									
5,000.00	1.00	270.00	5,000.00	0.00	-0.87	-0.02	1.00	1.00	0.00
5,100.00	2.00	270.00	5,099.96	0.00	-3.49	-0.08	1.00	1.00	0.00
5,174.10	2.74	270.00	5,174.00	0.00	-6.56	-0.15	1.00	1.00	0.00
Delaware									
5,200.00	3.00	270.00	5,199.86	0.00	-7.85	-0.18	1.00	1.00	0.00
5,300.00	4.00	270.00	5,299.68	0.00	-13.96	-0.32	1.00	1.00	0.00
5,400.00	5.00	270.00	5,399.37	0.00	-21.80	-0.49	1.00	1.00	0.00
Drop									
5,500.00	4.50	270.00	5,499.02	0.00	-30.08	-0.68	0.50	-0.50	0.00
5,600.00	4.00	270.00	5,598.75	0.00	-37.49	-0.85	0.50	-0.50	0.00
5,700.00	3.50	270.00	5,698.53	0.00	-44.03	-1.00	0.50	-0.50	0.00
5,800.00	3.00	270.00	5,798.37	0.00	-49.70	-1.13	0.50	-0.50	0.00
5,900.00	2.50	270.00	5,898.26	0.00	-54.50	-1.24	0.50	-0.50	0.00
6,000.00	2.00	270.00	5,998.18	0.00	-58.43	-1.33	0.50	-0.50	0.00
6,100.00	1.50	270.00	6,098.13	0.00	-61.48	-1.39	0.50	-0.50	0.00
6,151.88	1.24	270.00	6,150.00	0.00	-62.72	-1.42	0.50	-0.50	0.00
Cherry Canyon									
6,200.00	1.00	270.00	6,198.11	0.00	-63.66	-1.44	0.50	-0.50	0.00
6,300.00	0.50	270.00	6,298.10	0.00	-64.97	-1.47	0.50	-0.50	0.00
6,400.00	0.00	0.00	6,398.10	0.00	-65.41	-1.48	0.50	-0.50	0.00
Hold									
6,500.00	0.00	0.00	6,498.10	0.00	-65.41	-1.48	0.00	0.00	0.00
6,600.00	0.00	0.00	6,598.10	0.00	-65.41	-1.48	0.00	0.00	0.00
6,700.00	0.00	0.00	6,698.10	0.00	-65.41	-1.48	0.00	0.00	0.00
6,800.00	0.00	0.00	6,798.10	0.00	-65.41	-1.48	0.00	0.00	0.00
6,900.00	0.00	0.00	6,898.10	0.00	-65.41	-1.48	0.00	0.00	0.00
7,000.00	0.00	0.00	6,998.10	0.00	-65.41	-1.48	0.00	0.00	0.00
7,100.00	0.00	0.00	7,098.10	0.00	-65.41	-1.48	0.00	0.00	0.00
7,200.00	0.00	0.00	7,198.10	0.00	-65.41	-1.48	0.00	0.00	0.00
7,300.00	0.00	0.00	7,298.10	0.00	-65.41	-1.48	0.00	0.00	0.00
7,400.00	0.00	0.00	7,398.10	0.00	-65.41	-1.48	0.00	0.00	0.00
7,500.00	0.00	0.00	7,498.10	0.00	-65.41	-1.48	0.00	0.00	0.00
7,600.00	0.00	0.00	7,598.10	0.00	-65.41	-1.48	0.00	0.00	0.00
7,700.00	0.00	0.00	7,698.10	0.00	-65.41	-1.48	0.00	0.00	0.00
7,800.00	0.00	0.00	7,798.10	0.00	-65.41	-1.48	0.00	0.00	0.00
7,900.00	0.00	0.00	7,898.10	0.00	-65.41	-1.48	0.00	0.00	0.00
8,000.00	0.00	0.00	7,998.10	0.00	-65.41	-1.48	0.00	0.00	0.00
8,100.00	0.00	0.00	8,098.10	0.00	-65.41	-1.48	0.00	0.00	0.00
8,200.00	0.00	0.00	8,198.10	0.00	-65.41	-1.48	0.00	0.00	0.00
8,300.00	0.00	0.00	8,298.10	0.00	-65.41	-1.48	0.00	0.00	0.00
8,400.00	0.00	0.00	8,398.10	0.00	-65.41	-1.48	0.00	0.00	0.00
8,500.00	0.00	0.00	8,498.10	0.00	-65.41	-1.48	0.00	0.00	0.00
8,600.00	0.00	0.00	8,598.10	0.00	-65.41	-1.48	0.00	0.00	0.00
8,700.00	0.00	0.00	8,698.10	0.00	-65.41	-1.48	0.00	0.00	0.00
8,800.00	0.00	0.00	8,798.10	0.00	-65.41	-1.48	0.00	0.00	0.00
8,900.00	0.00	0.00	8,898.10	0.00	-65.41	-1.48	0.00	0.00	0.00
8,943.90	0.00	0.00	8,942.00	0.00	-65.41	-1.48	0.00	0.00	0.00

LEAM Drilling Systems LLC

Planning Report

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Company:	DEVON ENERGY	TVD Reference:	3707.1' GL + 30' RKB @ 3732.10usft (Original Well Elev)
Project:	Lea County, NM (NAD-83)	MD Reference:	3707.1' GL + 30' RKB @ 3732.10usft (Original Well Elev)
Site:	Thistle Unit	North Reference:	Grid
Well:	126H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
Lwr Brushy									
9,000.00	0.00	0.00	8,998.10	0.00	-65.41	-1.48	0.00	0.00	0.00
9,100.00	0.00	0.00	9,098.10	0.00	-65.41	-1.48	0.00	0.00	0.00
9,132.90	0.00	0.00	9,131.00	0.00	-65.41	-1.48	0.00	0.00	0.00
Bone Spring									
9,200.00	0.00	0.00	9,198.10	0.00	-65.41	-1.48	0.00	0.00	0.00
9,274.90	0.00	0.00	9,273.00	0.00	-65.41	-1.48	0.00	0.00	0.00
Mid Leonard Top									
9,300.00	0.00	0.00	9,298.10	0.00	-65.41	-1.48	0.00	0.00	0.00
9,400.00	0.00	0.00	9,398.10	0.00	-65.41	-1.48	0.00	0.00	0.00
9,500.00	0.00	0.00	9,498.10	0.00	-65.41	-1.48	0.00	0.00	0.00
9,521.96	0.00	0.00	9,520.06	0.00	-65.41	-1.48	0.00	0.00	0.00
KOP 10° DLS - KOP (TU 126H)									
9,550.00	2.80	178.70	9,548.09	-0.69	-65.39	-0.80	10.00	10.00	0.00
9,600.00	7.80	178.70	9,597.86	-5.30	-65.29	3.82	10.00	10.00	0.00
9,650.00	12.80	178.70	9,647.03	-14.24	-65.09	12.76	10.00	10.00	0.00
9,699.74	17.78	178.70	9,695.00	-27.35	-64.79	25.88	10.00	10.00	0.00
Leonard B									
9,700.00	17.80	178.70	9,695.25	-27.43	-64.79	25.96	10.00	10.00	0.00
9,750.00	22.80	178.70	9,742.12	-44.77	-64.39	43.30	10.00	10.00	0.00
9,800.00	27.80	178.70	9,787.31	-66.13	-63.91	64.66	10.00	10.00	0.00
9,850.00	32.80	178.70	9,830.47	-91.35	-63.34	89.88	10.00	10.00	0.00
9,900.00	37.80	178.70	9,871.26	-120.22	-62.69	118.77	10.00	10.00	0.00
9,950.00	42.80	178.70	9,909.38	-152.55	-61.96	151.10	10.00	10.00	0.00
10,000.00	47.80	178.70	9,944.53	-188.07	-61.15	186.63	10.00	10.00	0.00
10,050.00	52.80	178.70	9,976.46	-226.52	-60.28	225.09	10.00	10.00	0.00
10,100.00	57.80	178.70	10,004.91	-267.60	-59.35	266.19	10.00	10.00	0.00
10,150.00	62.80	178.70	10,029.68	-311.01	-58.37	309.61	10.00	10.00	0.00
10,180.78	65.88	178.70	10,043.00	-338.75	-57.74	337.35	10.00	10.00	0.00
Leonard C - POE (TU 126H)									
10,200.00	67.80	178.70	10,050.56	-356.41	-57.34	355.02	10.00	10.00	0.00
10,250.00	72.80	178.70	10,067.41	-403.46	-56.28	402.08	10.00	10.00	0.00
10,300.00	77.80	178.70	10,080.09	-451.80	-55.18	450.43	10.00	10.00	0.00
10,350.00	82.80	178.70	10,088.50	-501.06	-54.07	499.70	10.00	10.00	0.00
10,400.00	87.80	178.70	10,092.60	-550.86	-52.94	549.52	10.00	10.00	0.00
10,417.17	89.52	178.70	10,093.00	-568.02	-52.55	566.68	10.00	10.00	0.00
LP									
10,500.00	89.52	178.70	10,093.69	-650.83	-50.68	649.51	0.00	0.00	0.00
10,600.00	89.52	178.70	10,094.53	-750.80	-48.41	749.50	0.00	0.00	0.00
10,700.00	89.52	178.70	10,095.36	-850.77	-46.15	849.50	0.00	0.00	0.00
10,800.00	89.52	178.70	10,096.20	-950.74	-43.89	949.50	0.00	0.00	0.00
10,900.00	89.52	178.70	10,097.03	-1,050.71	-41.63	1,049.49	0.00	0.00	0.00
11,000.00	89.52	178.70	10,097.87	-1,150.68	-39.36	1,149.49	0.00	0.00	0.00
11,100.00	89.52	178.70	10,098.71	-1,250.65	-37.10	1,249.49	0.00	0.00	0.00
11,200.00	89.52	178.70	10,099.54	-1,350.62	-34.84	1,349.48	0.00	0.00	0.00
11,300.00	89.52	178.70	10,100.38	-1,450.59	-32.57	1,449.48	0.00	0.00	0.00
11,400.00	89.52	178.70	10,101.21	-1,550.56	-30.31	1,549.48	0.00	0.00	0.00
11,500.00	89.52	178.70	10,102.05	-1,650.53	-28.05	1,649.47	0.00	0.00	0.00
11,600.00	89.52	178.70	10,102.89	-1,750.51	-25.79	1,749.47	0.00	0.00	0.00
11,700.00	89.52	178.70	10,103.72	-1,850.48	-23.52	1,849.47	0.00	0.00	0.00
11,800.00	89.52	178.70	10,104.56	-1,950.45	-21.26	1,949.46	0.00	0.00	0.00

LEAM Drilling Systems LLC

Planning Report

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Project:	Lea County, NM (NAD-83)	MD Reference:	3707.1' GL + 30' RKB @ 3732.10usft (Original Well Elev)
Site:	Thistle Unit	North Reference:	Grid
Well:	126H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
11,900.00	89.52	178.70	10,105.39	-2,050.42	-19.00	2,049.46	0.00	0.00	0.00
12,000.00	89.52	178.70	10,106.23	-2,150.39	-16.73	2,149.46	0.00	0.00	0.00
12,100.00	89.52	178.70	10,107.07	-2,250.36	-14.47	2,249.45	0.00	0.00	0.00
12,200.00	89.52	178.70	10,107.90	-2,350.33	-12.21	2,349.45	0.00	0.00	0.00
12,300.00	89.52	178.70	10,108.74	-2,450.30	-9.95	2,449.45	0.00	0.00	0.00
12,400.00	89.52	178.70	10,109.57	-2,550.27	-7.68	2,549.44	0.00	0.00	0.00
12,500.00	89.52	178.70	10,110.41	-2,650.24	-5.42	2,649.44	0.00	0.00	0.00
12,600.00	89.52	178.70	10,111.25	-2,750.21	-3.16	2,749.43	0.00	0.00	0.00
12,700.00	89.52	178.70	10,112.08	-2,850.18	-0.90	2,849.43	0.00	0.00	0.00
12,800.00	89.52	178.70	10,112.92	-2,950.16	1.37	2,949.43	0.00	0.00	0.00
12,900.00	89.52	178.70	10,113.75	-3,050.13	3.63	3,049.42	0.00	0.00	0.00
13,000.00	89.52	178.70	10,114.59	-3,150.10	5.89	3,149.42	0.00	0.00	0.00
13,100.00	89.52	178.70	10,115.43	-3,250.07	8.16	3,249.42	0.00	0.00	0.00
13,200.00	89.52	178.70	10,116.26	-3,350.04	10.42	3,349.41	0.00	0.00	0.00
13,300.00	89.52	178.70	10,117.10	-3,450.01	12.68	3,449.41	0.00	0.00	0.00
13,400.00	89.52	178.70	10,117.93	-3,549.98	14.94	3,549.41	0.00	0.00	0.00
13,500.00	89.52	178.70	10,118.77	-3,649.95	17.21	3,649.40	0.00	0.00	0.00
13,600.00	89.52	178.70	10,119.61	-3,749.92	19.47	3,749.40	0.00	0.00	0.00
13,700.00	89.52	178.70	10,120.44	-3,849.89	21.73	3,849.40	0.00	0.00	0.00
13,800.00	89.52	178.70	10,121.28	-3,949.86	24.00	3,949.39	0.00	0.00	0.00
13,900.00	89.52	178.70	10,122.11	-4,049.84	26.26	4,049.39	0.00	0.00	0.00
14,000.00	89.52	178.70	10,122.95	-4,149.81	28.52	4,149.39	0.00	0.00	0.00
14,100.00	89.52	178.70	10,123.79	-4,249.78	30.78	4,249.38	0.00	0.00	0.00
14,200.00	89.52	178.70	10,124.62	-4,349.75	33.05	4,349.38	0.00	0.00	0.00
14,300.00	89.52	178.70	10,125.46	-4,449.72	35.31	4,449.38	0.00	0.00	0.00
14,400.00	89.52	178.70	10,126.29	-4,549.69	37.57	4,549.37	0.00	0.00	0.00
14,500.00	89.52	178.70	10,127.13	-4,649.66	39.84	4,649.37	0.00	0.00	0.00
14,600.00	89.52	178.70	10,127.97	-4,749.63	42.10	4,749.36	0.00	0.00	0.00
14,700.00	89.52	178.70	10,128.80	-4,849.60	44.36	4,849.36	0.00	0.00	0.00
14,800.00	89.52	178.70	10,129.64	-4,949.57	46.62	4,949.36	0.00	0.00	0.00
14,900.00	89.52	178.70	10,130.47	-5,049.54	48.89	5,049.35	0.00	0.00	0.00
15,000.00	89.52	178.70	10,131.31	-5,149.52	51.15	5,149.35	0.00	0.00	0.00
15,100.00	89.52	178.70	10,132.15	-5,249.49	53.41	5,249.35	0.00	0.00	0.00
15,200.00	89.52	178.70	10,132.98	-5,349.46	55.68	5,349.34	0.00	0.00	0.00
15,300.00	89.52	178.70	10,133.82	-5,449.43	57.94	5,449.34	0.00	0.00	0.00
15,400.00	89.52	178.70	10,134.65	-5,549.40	60.20	5,549.34	0.00	0.00	0.00
15,500.00	89.52	178.70	10,135.49	-5,649.37	62.46	5,649.33	0.00	0.00	0.00
15,600.00	89.52	178.70	10,136.33	-5,749.34	64.73	5,749.33	0.00	0.00	0.00
15,700.00	89.52	178.70	10,137.16	-5,849.31	66.99	5,849.33	0.00	0.00	0.00
15,800.00	89.52	178.70	10,138.00	-5,949.28	69.25	5,949.32	0.00	0.00	0.00
15,900.00	89.52	178.70	10,138.83	-6,049.25	71.51	6,049.32	0.00	0.00	0.00
16,000.00	89.52	178.70	10,139.67	-6,149.22	73.78	6,149.32	0.00	0.00	0.00
16,100.00	89.52	178.70	10,140.51	-6,249.20	76.04	6,249.31	0.00	0.00	0.00
16,200.00	89.52	178.70	10,141.34	-6,349.17	78.30	6,349.31	0.00	0.00	0.00
16,300.00	89.52	178.70	10,142.18	-6,449.14	80.57	6,449.31	0.00	0.00	0.00
16,400.00	89.52	178.70	10,143.01	-6,549.11	82.83	6,549.30	0.00	0.00	0.00
16,500.00	89.52	178.70	10,143.85	-6,649.08	85.09	6,649.30	0.00	0.00	0.00
16,600.00	89.52	178.70	10,144.69	-6,749.05	87.35	6,749.29	0.00	0.00	0.00
16,700.00	89.52	178.70	10,145.52	-6,849.02	89.62	6,849.29	0.00	0.00	0.00
16,800.00	89.52	178.70	10,146.36	-6,948.99	91.88	6,949.29	0.00	0.00	0.00
16,900.00	89.52	178.70	10,147.19	-7,048.96	94.14	7,049.28	0.00	0.00	0.00
17,000.00	89.52	178.70	10,148.03	-7,148.93	96.41	7,149.28	0.00	0.00	0.00

LEAM Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 126H
Company:	DEVON ENERGY	TVD Reference:	3707.1' GL + 30' RKB @ 3732.10usft (Original Well Elev)
Project:	Lea County, NM (NAD-83)	MD Reference:	3707.1' GL + 30' RKB @ 3732.10usft (Original Well Elev)
Site:	Thistle Unit	North Reference:	Grid
Well:	126H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
17,100.00	89.52	178.70	10,148.87	-7,248.90	98.67	7,249.28	0.00	0.00	0.00
17,200.00	89.52	178.70	10,149.70	-7,348.88	100.93	7,349.27	0.00	0.00	0.00
17,300.00	89.52	178.70	10,150.54	-7,448.85	103.19	7,449.27	0.00	0.00	0.00
17,400.00	89.52	178.70	10,151.37	-7,548.82	105.46	7,549.27	0.00	0.00	0.00
17,474.81	89.52	178.70	10,152.00	-7,623.61	107.15	7,624.08	0.00	0.00	0.00
TD - PBHL (TU 126H)									

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SHL (TU 126H) - plan hits target center - Point	0.00	0.00	0.00	0.00	0.00	472,574.01	782,462.00	32° 17' 48.363 N	103° 33' 10.688 W
KOP (TU 126H) - plan hits target center - Point	0.00	0.00	9,520.06	0.00	-65.41	472,574.01	782,396.59	32° 17' 48.368 N	103° 33' 11.450 W
POE (TU 126H) - plan hits target center - Point	0.00	0.00	10,043.00	-338.75	-57.74	472,235.26	782,404.26	32° 17' 45.015 N	103° 33' 11.389 W
PBHL (TU 126H) - plan hits target center - Point	0.00	0.00	10,152.00	-7,623.61	107.15	464,950.40	782,569.15	32° 16' 32.919 N	103° 33' 10.086 W

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,398.00	1,398.00	Rustler		0.00	
1,656.00	1,656.00	Top Salt		0.00	
4,900.00	4,900.00	Base Salt		0.00	
5,174.10	5,174.00	Delaware		0.00	
6,151.88	6,150.00	Cherry Canyon		0.00	
8,943.90	8,942.00	Lwr Brushy		0.00	
9,132.90	9,131.00	Bone Spring		0.00	
9,274.90	9,273.00	Mid Leonard Top		0.00	
9,699.74	9,695.00	Leonard B		0.00	
10,180.78	10,043.00	Leonard C		0.00	

LEAM Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 126H
Company:	DEVON ENERGY	TVD Reference:	3707.1' GL + 30' RKB @ 3732.10usft (Original Well Elev)
Project:	Lea County, NM (NAD-83)	MD Reference:	3707.1' GL + 30' RKB @ 3732.10usft (Original Well Elev)
Site:	Thistle Unit	North Reference:	Grid
Well:	126H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
4,900.00	4,900.00	0.00	0.00	Nudge	
5,400.00	5,399.37	0.00	-21.80	Drop	
6,400.00	6,398.10	0.00	-65.41	Hold	
9,521.96	9,520.06	0.00	-65.41	KOP 10° DLS	
10,417.17	10,093.00	-568.02	-52.55	LP	
17,474.81	10,152.00	-7,623.61	107.15	TD	

DEVON ENERGY

Lea County, NM (NAD-83)

Thistle Unit

126H

OH

Plan #1

Anticollision Report

04 August, 2016

LEAM Drilling Systems LLC

Anticollision Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 126H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3707.1' GL + 30' RKB @ 3732.10usft (Original Well Elev)
Reference Site:	Thistle Unit	MD Reference:	3707.1' GL + 30' RKB @ 3732.10usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	126H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Reference	Plan #1		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100.00usft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 9,999.98 usft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program	Date	8/4/2016		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	17,474.81	Plan #1 (OH)	LEAM MWD-ADJ	MWD - Standard

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Thistle Unit						
111H - OH - Plan #1	4,900.00	4,899.60	49.95	28.21	2.297	CC, ES
111H - OH - Plan #1	5,000.00	4,999.60	50.82	28.65	2.292	SF
71H - OH - OH	15,126.13	10,097.00	149.41	33.46	1.289	Level 3, CC, ES, SF
96H - OH - Plan #1	4,900.00	4,899.20	99.83	78.09	4.591	CC, ES
96H - OH - Plan #1	17,474.81	17,141.05	326.20	213.54	2.896	SF

Offset Design												Offset Site Error:	0.00 usft
Thistle Unit - 111H - OH - Plan #1												Offset Well Error:	0.00 usft
Survey Program: 0-LEAM MWD-ADJ													
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Minimum Separation (usft)	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)					
0.00	0.00	0.00	0.00	0.00	0.00	89.64	0.31	49.95	49.95				
100.00	100.00	99.60	99.60	0.08	0.08	89.64	0.31	49.95	49.95	0.17	296.907		
200.00	200.00	199.60	199.60	0.31	0.31	89.64	0.31	49.95	49.95	0.62	80.931		
300.00	300.00	299.60	299.60	0.53	0.53	89.64	0.31	49.95	49.95	1.07	46.826		
400.00	400.00	399.60	399.60	0.76	0.76	89.64	0.31	49.95	49.95	1.52	32.943		
500.00	500.00	499.60	499.60	0.98	0.98	89.64	0.31	49.95	49.95	1.97	25.410		
600.00	600.00	599.60	599.60	1.21	1.21	89.64	0.31	49.95	49.95	2.42	20.681		
700.00	700.00	699.60	699.60	1.43	1.43	89.64	0.31	49.95	49.95	2.86	17.436		
800.00	800.00	799.60	799.60	1.66	1.66	89.64	0.31	49.95	49.95	3.31	15.071		
900.00	900.00	899.60	899.60	1.88	1.88	89.64	0.31	49.95	49.95	3.76	13.271		
1,000.00	1,000.00	999.60	999.60	2.11	2.11	89.64	0.31	49.95	49.95	4.21	11.855		
1,100.00	1,100.00	1,099.60	1,099.60	2.33	2.33	89.64	0.31	49.95	49.95	4.66	10.712		
1,200.00	1,200.00	1,199.60	1,199.60	2.56	2.56	89.64	0.31	49.95	49.95	5.11	9.770		
1,300.00	1,300.00	1,299.60	1,299.60	2.78	2.78	89.64	0.31	49.95	49.95	5.56	8.981		
1,400.00	1,400.00	1,399.60	1,399.60	3.01	3.01	89.64	0.31	49.95	49.95	6.01	8.309		
1,500.00	1,500.00	1,499.60	1,499.60	3.23	3.23	89.64	0.31	49.95	49.95	6.46	7.731		
1,600.00	1,600.00	1,599.60	1,599.60	3.46	3.45	89.64	0.31	49.95	49.95	6.91	7.228		
1,700.00	1,700.00	1,699.60	1,699.60	3.68	3.68	89.64	0.31	49.95	49.95	7.36	6.787		
1,800.00	1,800.00	1,799.60	1,799.60	3.91	3.90	89.64	0.31	49.95	49.95	7.81	6.396		
1,900.00	1,900.00	1,899.60	1,899.60	4.13	4.13	89.64	0.31	49.95	49.95	8.26	6.048		
2,000.00	2,000.00	1,999.60	1,999.60	4.35	4.35	89.64	0.31	49.95	49.95	8.71	5.736		

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

LEAM Drilling Systems LLC

Anticollision Report

Company: DEVON ENERGY
Project: Lea County, NM (NAD-83)
Reference Site: Thistle Unit
Site Error: 0.00 usft
Reference Well: 126H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Plan #1

Local Co-ordinate Reference: Well 126H
TVD Reference: 3707.1' GL + 30' RKB @ 3732.10usft (Original Well Elev)
MD Reference: 3707.1' GL + 30' RKB @ 3732.10usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM 5000.1 Single User Db
Offset TVD Reference: Offset Datum

Offset Design Thistle Unit - 111H - OH - Plan #1													Offset Site Error: 0.00 usft	
Survey Program: 0-LEAM MWD-ADJ													Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (")	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
2,100.00	2,100.00	2,099.60	2,099.60	4.58	4.58	89.64	0.31	49.95	49.95	40.79	9.16	5.454		
2,200.00	2,200.00	2,199.60	2,199.60	4.80	4.80	89.64	0.31	49.95	49.95	40.34	9.61	5.199		
2,300.00	2,300.00	2,299.60	2,299.60	5.03	5.03	89.64	0.31	49.95	49.95	39.89	10.06	4.967		
2,400.00	2,400.00	2,399.60	2,399.60	5.25	5.25	89.64	0.31	49.95	49.95	39.44	10.51	4.754		
2,500.00	2,500.00	2,499.60	2,499.60	5.48	5.48	89.64	0.31	49.95	49.95	38.99	10.96	4.559		
2,600.00	2,600.00	2,599.60	2,599.60	5.70	5.70	89.64	0.31	49.95	49.95	38.54	11.41	4.379		
2,700.00	2,700.00	2,699.60	2,699.60	5.93	5.93	89.64	0.31	49.95	49.95	38.10	11.86	4.213		
2,800.00	2,800.00	2,799.60	2,799.60	6.15	6.15	89.64	0.31	49.95	49.95	37.65	12.31	4.059		
2,900.00	2,900.00	2,899.60	2,899.60	6.38	6.38	89.64	0.31	49.95	49.95	37.20	12.75	3.916		
3,000.00	3,000.00	2,999.60	2,999.60	6.60	6.60	89.64	0.31	49.95	49.95	36.75	13.20	3.783		
3,100.00	3,100.00	3,099.60	3,099.60	6.83	6.83	89.64	0.31	49.95	49.95	36.30	13.65	3.658		
3,200.00	3,200.00	3,199.60	3,199.60	7.05	7.05	89.64	0.31	49.95	49.95	35.85	14.10	3.542		
3,300.00	3,300.00	3,299.60	3,299.60	7.28	7.28	89.64	0.31	49.95	49.95	35.40	14.55	3.432		
3,400.00	3,400.00	3,399.60	3,399.60	7.50	7.50	89.64	0.31	49.95	49.95	34.95	15.00	3.330		
3,500.00	3,500.00	3,499.60	3,499.60	7.73	7.73	89.64	0.31	49.95	49.95	34.50	15.45	3.233		
3,600.00	3,600.00	3,599.60	3,599.60	7.95	7.95	89.64	0.31	49.95	49.95	34.05	15.90	3.141		
3,700.00	3,700.00	3,699.60	3,699.60	8.18	8.17	89.64	0.31	49.95	49.95	33.60	16.35	3.055		
3,800.00	3,800.00	3,799.60	3,799.60	8.40	8.40	89.64	0.31	49.95	49.95	33.15	16.80	2.973		
3,900.00	3,900.00	3,899.60	3,899.60	8.63	8.62	89.64	0.31	49.95	49.95	32.70	17.25	2.896		
4,000.00	4,000.00	3,999.60	3,999.60	8.85	8.85	89.64	0.31	49.95	49.95	32.25	17.70	2.822		
4,100.00	4,100.00	4,099.60	4,099.60	9.07	9.07	89.64	0.31	49.95	49.95	31.80	18.15	2.752		
4,200.00	4,200.00	4,199.60	4,199.60	9.30	9.30	89.64	0.31	49.95	49.95	31.35	18.60	2.686		
4,300.00	4,300.00	4,299.60	4,299.60	9.52	9.52	89.64	0.31	49.95	49.95	30.90	19.05	2.622		
4,400.00	4,400.00	4,399.60	4,399.60	9.75	9.75	89.64	0.31	49.95	49.95	30.45	19.50	2.562		
4,500.00	4,500.00	4,499.60	4,499.60	9.97	9.97	89.64	0.31	49.95	49.95	30.00	19.95	2.504		
4,600.00	4,600.00	4,599.60	4,599.60	10.20	10.20	89.64	0.31	49.95	49.95	29.55	20.40	2.449		
4,700.00	4,700.00	4,699.60	4,699.60	10.42	10.42	89.64	0.31	49.95	49.95	29.10	20.85	2.396		
4,800.00	4,800.00	4,799.60	4,799.60	10.65	10.65	89.64	0.31	49.95	49.95	28.66	21.30	2.346		
4,900.00	4,900.00	4,899.60	4,899.60	10.87	10.87	89.64	0.31	49.95	49.95	28.21	21.75	2.297 CC, ES		
5,000.00	5,000.00	4,999.60	4,999.60	11.08	11.10	179.65	0.31	49.95	50.82	28.65	22.18	2.292 SF		
5,100.00	5,099.96	5,099.56	5,099.56	11.28	11.32	179.67	0.31	49.95	53.44	30.85	22.59	2.366		
5,200.00	5,199.86	5,199.46	5,199.46	11.48	11.55	179.69	0.31	49.95	57.80	34.81	22.99	2.514		
5,300.00	5,299.68	5,299.28	5,299.28	11.68	11.77	179.72	0.31	49.95	63.91	40.52	23.39	2.732		
5,400.00	5,399.37	5,398.97	5,398.97	11.89	11.99	179.75	0.31	49.95	71.75	47.97	23.79	3.017		
5,500.00	5,499.02	5,498.62	5,498.62	12.09	12.22	179.78	0.31	49.95	80.03	55.81	24.22	3.304		
5,600.00	5,598.75	5,598.35	5,598.35	12.29	12.44	179.80	0.31	49.95	87.44	62.79	24.66	3.547		
5,700.00	5,698.53	5,698.13	5,698.13	12.49	12.67	179.81	0.31	49.95	93.99	68.89	25.09	3.746		
5,800.00	5,798.37	5,797.97	5,797.97	12.69	12.89	179.82	0.31	49.95	99.65	74.13	25.52	3.904		
5,900.00	5,898.26	5,897.86	5,897.86	12.89	13.12	179.83	0.31	49.95	104.45	78.50	25.96	4.024		
6,000.00	5,998.18	5,997.78	5,997.78	13.09	13.34	179.84	0.31	49.95	108.38	81.99	26.39	4.107		
6,100.00	6,098.13	6,097.73	6,097.73	13.29	13.57	179.84	0.31	49.95	111.43	84.61	26.82	4.155		
6,200.00	6,198.11	6,197.71	6,197.71	13.50	13.79	179.84	0.31	49.95	113.61	86.36	27.25	4.169		
6,300.00	6,298.10	6,297.70	6,297.70	13.70	14.01	179.85	0.31	49.95	114.92	87.24	27.68	4.152		
6,400.00	6,398.10	6,397.70	6,397.70	13.89	14.24	89.85	0.31	49.95	115.36	87.27	28.09	4.106		
6,500.00	6,498.10	6,497.70	6,497.70	14.09	14.46	89.85	0.31	49.95	115.36	86.84	28.52	4.045		
6,600.00	6,598.10	6,597.70	6,597.70	14.31	14.69	89.85	0.31	49.95	115.36	86.39	28.97	3.983		
6,700.00	6,698.10	6,697.70	6,697.70	14.53	14.91	89.85	0.31	49.95	115.36	85.94	29.41	3.922		
6,800.00	6,798.10	6,797.70	6,797.70	14.76	15.14	89.85	0.31	49.95	115.36	85.50	29.86	3.863		
6,900.00	6,898.10	6,897.70	6,897.70	14.98	15.36	89.85	0.31	49.95	115.36	85.05	30.31	3.806		
7,000.00	6,998.10	6,997.70	6,997.70	15.20	15.59	89.85	0.31	49.95	115.36	84.60	30.76	3.750		

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 126H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3707.1' GL + 30' RKB @ 3732.10usft (Original Well Elev)
Reference Site:	Thistle Unit	MD Reference:	3707.1' GL + 30' RKB @ 3732.10usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	126H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Thistle Unit - 111H - OH - Plan #1													Offset Site Error: 0.00 usft
Survey Program: 0-LEAM MWD-ADJ													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Distance							
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
7,100.00	7,098.10	7,097.70	7,097.70	15.43	15.81	89.85	0.31	49.95	115.36	84.15	31.21	3.696	
7,200.00	7,198.10	7,197.70	7,197.70	15.65	16.04	89.85	0.31	49.95	115.36	83.70	31.66	3.644	
7,300.00	7,298.10	7,297.70	7,297.70	15.87	16.26	89.85	0.31	49.95	115.36	83.25	32.11	3.593	
7,400.00	7,398.10	7,397.70	7,397.70	16.10	16.49	89.85	0.31	49.95	115.36	82.80	32.56	3.543	
7,500.00	7,498.10	7,497.70	7,497.70	16.32	16.71	89.85	0.31	49.95	115.36	82.35	33.00	3.495	
7,600.00	7,598.10	7,597.70	7,597.70	16.55	16.94	89.85	0.31	49.95	115.36	81.91	33.45	3.448	
7,700.00	7,698.10	7,697.70	7,697.70	16.77	17.16	89.85	0.31	49.95	115.36	81.46	33.90	3.403	
7,800.00	7,798.10	7,797.70	7,797.70	16.99	17.39	89.85	0.31	49.95	115.36	81.01	34.35	3.358	
7,900.00	7,898.10	7,897.70	7,897.70	17.22	17.61	89.85	0.31	49.95	115.36	80.56	34.80	3.315	
8,000.00	7,998.10	7,997.70	7,997.70	17.44	17.84	89.85	0.31	49.95	115.36	80.11	35.25	3.273	
8,100.00	8,098.10	8,097.70	8,097.70	17.66	18.06	89.85	0.31	49.95	115.36	79.66	35.70	3.232	
8,200.00	8,198.10	8,197.70	8,197.70	17.89	18.29	89.85	0.31	49.95	115.36	79.21	36.15	3.191	
8,300.00	8,298.10	8,297.70	8,297.70	18.11	18.51	89.85	0.31	49.95	115.36	78.76	36.59	3.152	
8,400.00	8,398.10	8,397.70	8,397.70	18.33	18.73	89.85	0.31	49.95	115.36	78.32	37.04	3.114	
8,500.00	8,498.10	8,497.70	8,497.70	18.56	18.96	89.85	0.31	49.95	115.36	77.87	37.49	3.077	
8,600.00	8,598.10	8,597.70	8,597.70	18.78	19.18	89.85	0.31	49.95	115.36	77.42	37.94	3.040	
8,700.00	8,698.10	8,697.70	8,697.70	19.01	19.41	89.85	0.31	49.95	115.36	76.97	38.39	3.005	
8,800.00	8,798.10	8,797.70	8,797.70	19.23	19.63	89.85	0.31	49.95	115.36	76.52	38.84	2.970	
8,900.00	8,898.10	8,897.70	8,897.70	19.45	19.86	89.85	0.31	49.95	115.36	76.07	39.29	2.936	
9,000.00	8,998.10	8,997.70	8,997.70	19.68	20.08	89.85	0.31	49.95	115.36	75.62	39.74	2.903	
9,100.00	9,098.10	9,097.70	9,097.70	19.90	20.31	89.85	0.31	49.95	115.36	75.17	40.19	2.871	
9,148.28	9,146.37	9,145.97	9,145.97	20.01	20.42	89.85	0.31	49.95	115.36	74.96	40.40	2.855	
9,200.00	9,198.10	9,197.55	9,197.50	20.13	20.52	90.78	-1.57	49.96	115.38	74.76	40.62	2.841	
9,300.00	9,298.10	9,294.48	9,292.99	20.35	20.68	98.64	-17.54	50.08	116.91	75.91	41.00	2.852	
9,400.00	9,398.10	9,383.76	9,377.42	20.57	20.83	111.80	-46.29	50.30	126.26	84.89	41.37	3.052	
9,500.00	9,498.10	9,462.56	9,447.44	20.80	20.96	125.36	-82.29	50.57	150.82	109.09	41.73	3.614	
9,600.00	9,597.86	9,532.61	9,505.03	20.99	21.09	-40.94	-122.09	50.87	188.88	147.00	41.88	4.510	
9,700.00	9,695.25	9,600.00	9,555.46	21.17	21.26	-32.41	-166.74	51.20	228.67	187.40	41.27	5.541	
9,800.00	9,787.31	9,665.19	9,598.93	21.35	21.45	-28.80	-215.27	51.57	266.30	226.49	39.81	6.689	
9,900.00	9,871.26	9,729.08	9,635.91	21.54	21.69	-22.99	-267.32	51.96	299.97	262.36	37.61	7.976	
10,000.00	9,944.53	9,800.00	9,669.90	21.79	21.99	-20.20	-329.52	52.43	328.81	293.93	34.88	9.427	
10,100.00	10,004.91	9,850.00	9,689.11	22.14	22.25	-18.60	-375.66	52.77	351.75	319.79	31.96	11.007	
10,200.00	10,050.56	9,915.36	9,708.04	22.59	22.63	-17.32	-438.18	53.24	368.73	339.48	29.25	12.606	
10,300.00	10,080.09	9,976.44	9,719.18	23.17	23.03	-16.55	-498.21	53.69	379.43	352.16	27.27	13.913	
10,400.00	10,092.60	10,046.08	9,724.01	23.85	23.54	-16.15	-567.63	54.21	383.82	357.30	26.53	14.469	
10,500.00	10,093.69	10,131.70	9,724.76	24.65	24.24	-15.97	-653.25	54.86	383.35	356.38	26.96	14.217	
10,600.00	10,094.53	10,231.69	9,725.63	25.54	25.15	-15.75	-753.23	55.61	382.90	355.34	27.57	13.891	
10,700.00	10,095.36	10,331.68	9,726.51	26.54	26.16	-15.53	-853.21	56.36	382.46	354.21	28.25	13.539	
10,800.00	10,096.20	10,431.67	9,727.38	27.62	27.25	-15.32	-953.19	57.11	382.02	353.01	29.01	13.171	
10,900.00	10,097.03	10,531.66	9,728.25	28.78	28.42	-15.10	-1,053.18	57.86	381.59	351.76	29.83	12.793	
11,000.00	10,097.87	10,631.64	9,729.12	30.00	29.66	-14.88	-1,153.16	58.61	381.16	350.45	30.71	12.411	
11,100.00	10,098.71	10,731.63	9,730.00	31.28	30.95	-14.66	-1,253.14	59.36	380.74	349.09	31.65	12.030	
11,200.00	10,099.54	10,831.62	9,730.87	32.62	32.29	-14.44	-1,353.12	60.11	380.32	347.69	32.63	11.656	
11,300.00	10,100.38	10,931.61	9,731.74	34.00	33.69	-14.23	-1,453.10	60.86	379.91	346.26	33.65	11.289	
11,400.00	10,101.21	11,031.60	9,732.62	35.42	35.12	-14.01	-1,553.09	61.62	379.51	344.80	34.71	10.933	
11,500.00	10,102.05	11,131.59	9,733.49	36.88	36.59	-13.79	-1,653.07	62.37	379.11	343.31	35.80	10.589	
11,600.00	10,102.89	11,231.58	9,734.36	38.37	38.08	-13.56	-1,753.05	63.12	378.72	341.80	36.92	10.258	
11,700.00	10,103.72	11,331.56	9,735.23	39.89	39.61	-13.34	-1,853.03	63.87	378.33	340.27	38.06	9.940	
11,800.00	10,104.56	11,431.55	9,736.11	41.44	41.16	-13.12	-1,953.01	64.62	377.95	338.73	39.22	9.636	
11,900.00	10,105.39	11,531.54	9,736.98	43.00	42.73	-12.90	-2,053.00	65.37	377.57	337.17	40.40	9.346	
12,000.00	10,106.23	11,631.53	9,737.85	44.59	44.33	-12.68	-2,152.98	66.12	377.20	335.61	41.59	9.069	

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

LEAM Drilling Systems LLC

Anticollision Report

Company: DEVON ENERGY
Project: Lea County, NM (NAD-83)
Reference Site: Thistle Unit
Site Error: 0.00 usft
Reference Well: 126H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Plan #1

Local Co-ordinate Reference: Well 126H
TVD Reference: 3707.1' GL + 30' RKB @ 3732.10usft (Original Well Elev)
MD Reference: 3707.1' GL + 30' RKB @ 3732.10usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM 5000.1 Single User Db
Offset TVD Reference: Offset Datum

Offset Design Thistle Unit - 111H - OH - Plan #1													Offset Site Error: 0.00 usft	
Survey Program: 0-LEAM MWD-ADJ													Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
12,100.00	10,107.07	11,731.52	9,738.72	46.20	45.94	-12.45	-2,252.96	66.87	376.84	334.04	42.80	8.805		
12,200.00	10,107.90	11,831.51	9,739.60	47.82	47.56	-12.23	-2,352.94	67.62	376.48	332.46	44.02	8.553		
12,300.00	10,108.74	11,931.50	9,740.47	49.46	49.21	-12.01	-2,452.92	68.37	376.12	330.88	45.24	8.313		
12,400.00	10,109.57	12,031.48	9,741.34	51.11	50.86	-11.78	-2,552.91	69.12	375.78	329.30	46.48	8.085		
12,500.00	10,110.41	12,131.47	9,742.21	52.77	52.52	-11.56	-2,652.89	69.87	375.43	327.72	47.72	7.868		
12,600.00	10,111.25	12,231.46	9,743.09	54.44	54.20	-11.33	-2,752.87	70.63	375.10	326.13	48.97	7.660		
12,700.00	10,112.08	12,331.45	9,743.96	56.12	55.89	-11.11	-2,852.85	71.38	374.77	324.55	50.22	7.463		
12,800.00	10,112.92	12,431.44	9,744.83	57.81	57.58	-10.88	-2,952.83	72.13	374.44	322.97	51.47	7.275		
12,900.00	10,113.75	12,531.43	9,745.70	59.51	59.28	-10.65	-3,052.82	72.88	374.13	321.40	52.73	7.095		
13,000.00	10,114.59	12,631.42	9,746.58	61.22	60.99	-10.43	-3,152.80	73.63	373.81	319.82	53.99	6.924		
13,100.00	10,115.43	12,731.40	9,747.45	62.94	62.71	-10.20	-3,252.78	74.38	373.51	318.25	55.25	6.760		
13,200.00	10,116.26	12,831.39	9,748.32	64.66	64.43	-9.97	-3,352.76	75.13	373.20	316.69	56.52	6.603		
13,300.00	10,117.10	12,931.38	9,749.19	66.38	66.16	-9.75	-3,452.74	75.88	372.91	315.13	57.78	6.454		
13,400.00	10,117.93	13,031.37	9,750.07	68.12	67.89	-9.52	-3,552.72	76.63	372.62	313.57	59.05	6.311		
13,500.00	10,118.77	13,131.36	9,750.94	69.85	69.63	-9.29	-3,652.71	77.38	372.34	312.02	60.31	6.173		
13,600.00	10,119.61	13,231.35	9,751.81	71.60	71.38	-9.06	-3,752.69	78.13	372.06	310.48	61.58	6.042		
13,700.00	10,120.44	13,331.34	9,752.68	73.34	73.12	-8.83	-3,852.67	78.88	371.79	308.94	62.85	5.916		
13,800.00	10,121.28	13,431.32	9,753.56	75.09	74.87	-8.60	-3,952.65	79.63	371.52	307.41	64.12	5.794		
13,900.00	10,122.11	13,531.31	9,754.43	76.85	76.63	-8.37	-4,052.63	80.39	371.26	305.88	65.38	5.678		
14,000.00	10,122.95	13,631.30	9,755.30	78.60	78.39	-8.14	-4,152.62	81.14	371.01	304.36	66.65	5.566		
14,100.00	10,123.79	13,731.29	9,756.17	80.37	80.15	-7.91	-4,252.60	81.89	370.76	302.84	67.92	5.459		
14,200.00	10,124.62	13,831.28	9,757.05	82.13	81.91	-7.68	-4,352.58	82.64	370.52	301.33	69.19	5.355		
14,300.00	10,125.46	13,931.27	9,757.92	83.90	83.68	-7.45	-4,452.56	83.39	370.29	299.82	70.46	5.255		
14,400.00	10,126.29	14,031.26	9,758.79	85.67	85.45	-7.22	-4,552.54	84.14	370.06	298.32	71.73	5.159		
14,500.00	10,127.13	14,131.24	9,759.66	87.44	87.22	-6.99	-4,652.53	84.89	369.83	296.83	73.00	5.066		
14,600.00	10,127.97	14,231.23	9,760.54	89.21	89.00	-6.75	-4,752.51	85.64	369.61	295.34	74.28	4.976		
14,700.00	10,128.80	14,331.22	9,761.41	90.99	90.78	-6.52	-4,852.49	86.39	369.40	293.85	75.55	4.890		
14,800.00	10,129.64	14,431.21	9,762.28	92.77	92.56	-6.29	-4,952.47	87.14	369.20	292.37	76.82	4.806		
14,900.00	10,130.47	14,531.20	9,763.15	94.55	94.34	-6.06	-5,052.45	87.89	369.00	290.90	78.10	4.725		
15,000.00	10,131.31	14,631.19	9,764.03	96.34	96.12	-5.82	-5,152.44	88.64	368.81	289.43	79.38	4.646		
15,100.00	10,132.15	14,731.18	9,764.90	98.12	97.90	-5.59	-5,252.42	89.40	368.62	287.96	80.66	4.570		
15,200.00	10,132.98	14,831.16	9,765.77	99.91	99.69	-5.36	-5,352.40	90.15	368.44	286.49	81.94	4.496		
15,300.00	10,133.82	14,931.15	9,766.64	101.69	101.48	-5.12	-5,452.38	90.90	368.26	285.03	83.23	4.425		
15,400.00	10,134.65	15,031.14	9,767.52	103.48	103.27	-4.89	-5,552.36	91.65	368.10	283.58	84.52	4.355		
15,500.00	10,135.49	15,131.13	9,768.39	105.28	105.06	-4.66	-5,652.35	92.40	367.93	282.12	85.81	4.288		
15,600.00	10,136.33	15,231.12	9,769.26	107.07	106.85	-4.42	-5,752.33	93.15	367.78	280.67	87.11	4.222		
15,700.00	10,137.16	15,331.11	9,770.13	108.86	108.64	-4.19	-5,852.31	93.90	367.63	279.22	88.41	4.158		
15,800.00	10,138.00	15,431.10	9,771.01	110.66	110.44	-3.95	-5,952.29	94.65	367.48	277.77	89.71	4.096		
15,900.00	10,138.83	15,531.08	9,771.88	112.45	112.23	-3.72	-6,052.27	95.40	367.34	276.32	91.02	4.036		
16,000.00	10,139.67	15,631.07	9,772.75	114.25	114.03	-3.48	-6,152.26	96.15	367.21	274.88	92.33	3.977		
16,100.00	10,140.51	15,731.06	9,773.63	116.05	115.83	-3.25	-6,252.24	96.90	367.09	273.43	93.65	3.920		
16,200.00	10,141.34	15,831.05	9,774.50	117.85	117.62	-3.01	-6,352.22	97.65	366.97	271.99	94.98	3.864		
16,300.00	10,142.18	15,931.04	9,775.37	119.65	119.42	-2.78	-6,452.20	98.41	366.86	270.55	96.31	3.809		
16,400.00	10,143.01	16,031.03	9,776.24	121.45	121.22	-2.54	-6,552.18	99.16	366.75	269.10	97.65	3.756		
16,500.00	10,143.85	16,131.02	9,777.12	123.25	123.03	-2.30	-6,652.17	99.91	366.65	267.66	98.99	3.704		
16,600.00	10,144.69	16,231.00	9,777.99	125.06	124.83	-2.07	-6,752.15	100.66	366.55	266.21	100.34	3.653		
16,700.00	10,145.52	16,330.99	9,778.86	126.86	126.63	-1.83	-6,852.13	101.41	366.47	264.76	101.70	3.603		
16,800.00	10,146.36	16,430.98	9,779.73	128.67	128.43	-1.60	-6,952.11	102.16	366.38	263.31	103.07	3.555		
16,900.00	10,147.19	16,530.97	9,780.61	130.47	130.24	-1.36	-7,052.09	102.91	366.31	261.86	104.44	3.507		
17,000.00	10,148.03	16,630.96	9,781.48	132.28	132.04	-1.12	-7,152.07	103.66	366.24	260.41	105.83	3.461		

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 126H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3707.1' GL + 30' RKB @ 3732.10usft (Original Well Elev)
Reference Site:	Thistle Unit	MD Reference:	3707.1' GL + 30' RKB @ 3732.10usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	126H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Thistle Unit - 111H - OH - Plan #1													Offset Site Error: 0.00 usft
Survey Program: 0-LEAM MWD-ADJ													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
17,100.00	10,148.87	16,730.95	9,782.35	134.08	133.85	-0.89	-7,252.06	104.41	366.17	258.95	107.22	3.415	
17,170.51	10,149.46	16,801.45	9,782.97	135.36	135.12	-0.72	-7,322.55	104.94	366.13	257.92	108.21	3.384	
17,200.00	10,149.70	16,823.42	9,783.16	135.89	135.52	-0.67	-7,344.52	105.11	366.19	257.63	108.57	3.373	
17,300.00	10,150.54	16,823.42	9,783.16	137.70	135.52	-0.67	-7,344.52	105.11	381.53	272.24	109.28	3.491	
17,400.00	10,151.37	16,823.42	9,783.16	139.51	135.52	-0.67	-7,344.52	105.11	420.75	310.75	110.00	3.825	
17,474.81	10,152.00	16,823.42	9,783.16	140.86	135.52	-0.67	-7,344.52	105.11	462.22	351.68	110.54	4.182	

LEAM Drilling Systems LLC

Anticollision Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 126H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3707.1' GL + 30' RKB @ 3732.10usft (Original Well Elev)
Reference Site:	Thistle Unit	MD Reference:	3707.1' GL + 30' RKB @ 3732.10usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	126H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Thistle Unit - 71H - OH - OH													Offset Site Error: 0.00 usft
Survey Program: 126-ISCWSA-GYRO-3, 9949-MWD-ISCWSA, 14979-Project													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)					
0.00	0.00	0.00	0.00	0.00	0.00	-177.90	-5,235.81	-192.40	5,239.41				
100.00	100.00	70.09	70.09	0.08	0.05	-177.90	-5,235.83	-192.42	5,239.37	5,239.24	0.13	N/A	
200.00	200.00	178.18	178.18	0.31	0.18	-177.89	-5,235.90	-192.47	5,239.44	5,238.95	0.49	N/A	
300.00	300.00	298.66	298.66	0.53	0.39	-177.89	-5,235.51	-192.56	5,239.11	5,238.19	0.92	5,672.140	
400.00	400.00	385.26	385.26	0.76	0.54	-177.90	-5,235.26	-192.39	5,238.80	5,237.50	1.30	4,031.415	
500.00	500.00	488.91	488.91	0.98	0.72	-177.90	-5,235.01	-192.00	5,238.55	5,236.85	1.71	3,071.976	
600.00	600.00	589.41	589.41	1.21	0.90	-177.90	-5,234.72	-191.56	5,238.24	5,236.14	2.11	2,487.710	
700.00	700.00	685.89	685.89	1.43	1.07	-177.91	-5,234.48	-191.10	5,237.98	5,235.48	2.50	2,095.883	
800.00	800.00	780.05	780.04	1.66	1.23	-177.91	-5,234.33	-190.62	5,237.80	5,234.91	2.89	1,813.171	
900.00	900.00	874.46	874.45	1.88	1.40	-177.92	-5,234.29	-190.10	5,237.74	5,234.46	3.28	1,597.426	
913.24	913.24	887.15	887.14	1.91	1.42	-177.92	-5,234.29	-190.02	5,237.74	5,234.41	3.33	1,572.498	
1,000.00	1,000.00	967.65	967.64	2.11	1.56	-177.93	-5,234.35	-189.49	5,237.78	5,234.12	3.67	1,428.402	
1,100.00	1,100.00	1,064.37	1,064.36	2.33	1.73	-177.93	-5,234.56	-189.01	5,237.98	5,233.92	4.06	1,289.800	
1,200.00	1,200.00	1,205.62	1,205.60	2.56	1.98	-177.94	-5,234.43	-188.68	5,237.92	5,233.39	4.53	1,155.563	
1,300.00	1,300.00	1,308.42	1,308.41	2.78	2.16	-177.93	-5,233.73	-188.84	5,237.25	5,232.31	4.94	1,060.900	
1,400.00	1,400.00	1,401.75	1,401.73	3.01	2.32	-177.93	-5,233.17	-189.11	5,236.65	5,231.33	5.32	983.631	
1,500.00	1,500.00	1,547.00	1,546.97	3.23	2.57	-177.92	-5,231.73	-189.72	5,235.68	5,229.88	5.80	902.431	
1,600.00	1,600.00	1,636.00	1,635.96	3.46	2.73	-177.92	-5,230.59	-189.99	5,234.41	5,228.22	6.18	846.719	
1,700.00	1,700.00	1,706.38	1,706.34	3.68	2.85	-177.92	-5,230.21	-190.25	5,233.77	5,227.24	6.53	801.566	
1,800.00	1,800.00	1,833.88	1,833.84	3.91	3.07	-177.91	-5,228.99	-190.94	5,232.82	5,225.84	6.98	750.034	
1,900.00	1,900.00	1,922.54	1,922.48	4.13	3.23	-177.90	-5,228.09	-191.74	5,231.83	5,224.47	7.36	711.196	
2,000.00	2,000.00	2,053.56	2,053.49	4.35	3.46	-177.88	-5,226.49	-193.13	5,230.67	5,222.86	7.81	669.724	
2,100.00	2,100.00	2,178.06	2,177.96	4.58	3.68	-177.87	-5,224.19	-194.74	5,228.85	5,220.60	8.25	633.558	
2,200.00	2,200.00	2,275.26	2,275.13	4.80	3.85	-177.85	-5,222.26	-196.04	5,226.92	5,218.27	8.65	604.369	
2,300.00	2,300.00	2,388.54	2,388.37	5.03	4.05	-177.83	-5,219.77	-197.75	5,224.77	5,215.69	9.07	575.892	
2,400.00	2,400.00	2,471.25	2,471.05	5.25	4.19	-177.81	-5,218.00	-199.16	5,222.70	5,213.26	9.44	553.099	
2,500.00	2,500.00	2,557.79	2,557.56	5.48	4.35	-177.79	-5,216.54	-200.92	5,221.08	5,211.26	9.82	531.719	
2,600.00	2,600.00	2,674.60	2,674.32	5.70	4.55	-177.76	-5,214.24	-203.54	5,219.18	5,208.93	10.25	509.233	
2,700.00	2,700.00	2,758.84	2,758.52	5.93	4.70	-177.75	-5,212.65	-205.23	5,217.38	5,206.75	10.62	491.197	
2,800.00	2,800.00	2,868.03	2,867.67	6.15	4.89	-177.72	-5,210.83	-207.56	5,215.81	5,204.77	11.04	472.525	
2,900.00	2,900.00	3,005.55	3,005.12	6.38	5.14	-177.69	-5,207.67	-210.49	5,213.58	5,202.07	11.51	453.150	
3,000.00	3,000.00	3,109.19	3,108.71	6.60	5.32	-177.66	-5,204.93	-212.60	5,211.02	5,199.10	11.91	437.419	
3,100.00	3,100.00	3,228.58	3,228.01	6.83	5.53	-177.63	-5,201.58	-215.52	5,208.32	5,195.97	12.35	421.754	
3,200.00	3,200.00	3,363.88	3,363.20	7.05	5.78	-177.59	-5,196.86	-218.39	5,204.89	5,192.08	12.81	408.161	
3,300.00	3,300.00	3,460.25	3,459.50	7.28	5.95	-177.58	-5,193.38	-219.87	5,201.34	5,188.13	13.21	393.684	
3,400.00	3,400.00	3,565.43	3,564.60	7.50	6.14	-177.56	-5,189.47	-221.35	5,197.69	5,184.06	13.63	381.475	
3,500.00	3,500.00	3,651.59	3,650.68	7.73	6.29	-177.54	-5,186.32	-222.63	5,194.11	5,180.10	14.00	370.890	
3,600.00	3,600.00	3,752.24	3,751.26	7.95	6.47	-177.52	-5,182.92	-224.31	5,190.80	5,176.39	14.41	360.235	
3,700.00	3,700.00	3,850.78	3,849.73	8.18	6.65	-177.50	-5,179.44	-225.92	5,187.35	5,172.53	14.81	350.237	
3,800.00	3,800.00	3,949.49	3,948.37	8.40	6.83	-177.49	-5,176.07	-227.12	5,183.98	5,168.77	15.21	340.762	
3,900.00	3,900.00	4,027.39	4,026.23	8.63	6.97	-177.48	-5,173.55	-228.01	5,180.81	5,165.23	15.58	332.588	
4,000.00	4,000.00	4,108.28	4,107.07	8.85	7.12	-177.46	-5,171.28	-229.21	5,178.07	5,162.12	15.95	324.718	
4,100.00	4,100.00	4,193.38	4,192.14	9.07	7.27	-177.45	-5,169.17	-230.34	5,175.65	5,159.32	16.32	317.090	
4,200.00	4,200.00	4,283.69	4,282.41	9.30	7.43	-177.43	-5,167.13	-232.07	5,173.47	5,156.76	16.71	309.658	
4,300.00	4,300.00	4,368.79	4,367.48	9.52	7.58	-177.41	-5,165.36	-233.61	5,171.49	5,154.41	17.08	302.743	
4,400.00	4,400.00	4,433.89	4,432.57	9.75	7.69	-177.41	-5,164.32	-234.00	5,169.95	5,152.53	17.42	296.762	
4,500.00	4,500.00	4,496.00	4,494.67	9.97	7.80	-177.42	-5,164.01	-233.13	5,169.31	5,151.55	17.75	291.158	
4,524.74	4,524.74	4,496.00	4,494.67	10.03	7.80	-177.42	-5,164.01	-233.13	5,169.27	5,151.46	17.81	290.247	
4,600.00	4,600.00	4,552.63	4,551.28	10.20	7.90	-177.43	-5,164.20	-231.61	5,169.44	5,151.36	18.08	285.971	
4,700.00	4,700.00	4,650.13	4,648.73	10.42	8.07	-177.47	-5,164.90	-228.52	5,170.01	5,151.54	18.47	279.918	
4,800.00	4,800.00	4,735.67	4,734.21	10.65	8.22	-177.50	-5,165.51	-225.25	5,170.57	5,151.73	18.84	274.417	

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 126H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3707.1' GL + 30' RKB @ 3732.10usft (Original Well Elev)
Reference Site:	Thistle Unit	MD Reference:	3707.1' GL + 30' RKB @ 3732.10usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	126H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Thistle Unit - 71H - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 126-ISCWSA-GYRO-3, 9949-MWD-ISCWSA, 14979-Project													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)						
4,900.00	4,900.00	4,809.84	4,808.25	10.87	8.35	-177.55	-5,166.44	-220.95	5,171.58	5,152.39	19.19	269.425		
5,000.00	5,000.00	4,880.74	4,878.94	11.08	8.47	-87.60	-5,167.75	-215.74	5,173.09	5,153.58	19.51	265.097		
5,100.00	5,099.96	4,951.63	4,949.57	11.28	8.60	-87.67	-5,169.51	-209.94	5,175.12	5,155.29	19.84	260.901		
5,200.00	5,199.86	5,051.22	5,048.78	11.48	8.77	-87.78	-5,172.24	-201.75	5,177.38	5,157.17	20.21	256.178		
5,300.00	5,299.68	5,184.00	5,181.20	11.68	9.01	-87.96	-5,175.45	-192.43	5,179.35	5,158.70	20.65	250.870		
5,400.00	5,399.37	5,255.99	5,253.05	11.89	9.13	-88.05	-5,177.03	-188.36	5,181.10	5,160.12	20.98	246.980		
5,500.00	5,499.02	5,360.69	5,357.59	12.09	9.32	-88.21	-5,179.65	-183.10	5,183.20	5,161.83	21.36	242.618		
5,600.00	5,598.75	5,475.48	5,472.19	12.29	9.52	-88.38	-5,182.24	-177.10	5,185.09	5,163.33	21.76	238.263		
5,700.00	5,698.53	5,593.57	5,590.08	12.49	9.73	-88.55	-5,184.41	-170.55	5,186.61	5,164.44	22.17	233.967		
5,800.00	5,798.37	5,721.00	5,717.31	12.69	9.96	-88.71	-5,186.31	-163.61	5,187.86	5,165.27	22.59	229.636		
5,900.00	5,898.26	5,818.44	5,814.60	12.89	10.13	-88.83	-5,187.47	-158.43	5,188.83	5,165.87	22.96	225.961		
6,000.00	5,898.18	5,936.39	5,932.39	13.09	10.33	-88.95	-5,188.66	-152.43	5,189.66	5,166.29	23.37	222.051		
6,100.00	6,098.13	6,043.93	6,039.79	13.29	10.52	-89.05	-5,189.49	-146.94	5,190.29	5,166.53	23.76	218.433		
6,200.00	6,198.11	6,138.09	6,133.83	13.50	10.69	-89.12	-5,190.16	-142.29	5,190.90	5,166.77	24.13	215.137		
6,300.00	6,298.10	6,237.76	6,233.39	13.70	10.86	-89.19	-5,191.00	-137.75	5,191.66	5,167.15	24.50	211.863		
6,400.00	6,398.10	6,342.96	6,338.49	13.89	11.04	-179.25	-5,191.79	-133.23	5,192.34	5,167.46	24.88	208.690		
6,500.00	6,498.10	6,436.00	6,431.46	14.09	11.21	-179.29	-5,192.52	-129.55	5,193.08	5,167.83	25.24	205.719		
6,600.00	6,598.10	6,553.83	6,549.21	14.31	11.41	-179.34	-5,193.31	-125.11	5,193.70	5,168.03	25.67	202.306		
6,700.00	6,698.10	6,662.24	6,657.55	14.53	11.60	-179.38	-5,193.71	-121.28	5,194.03	5,167.94	26.08	199.122		
6,800.00	6,798.10	6,767.81	6,763.05	14.76	11.78	-179.42	-5,194.00	-117.65	5,194.27	5,167.78	26.49	196.071		
6,900.00	6,898.10	6,871.09	6,866.28	14.98	11.96	-179.46	-5,194.17	-114.16	5,194.40	5,167.50	26.89	193.136		
7,000.00	6,998.10	6,970.56	6,965.69	15.20	12.14	-179.50	-5,194.31	-110.85	5,194.51	5,167.22	27.29	190.334		
7,100.00	7,098.10	7,048.03	7,043.11	15.43	12.27	-179.53	-5,194.59	-108.38	5,194.85	5,167.20	27.65	187.879		
7,200.00	7,198.10	7,140.59	7,135.62	15.65	12.43	-179.56	-5,195.22	-105.25	5,195.50	5,167.47	28.04	185.321		
7,300.00	7,298.10	7,228.96	7,223.94	15.87	12.59	-179.59	-5,195.95	-102.29	5,196.31	5,167.89	28.41	182.883		
7,400.00	7,398.10	7,329.00	7,323.93	16.10	12.76	-179.63	-5,196.90	-99.21	5,197.24	5,168.42	28.81	180.386		
7,500.00	7,498.10	7,418.00	7,412.88	16.32	12.92	-179.66	-5,197.86	-96.51	5,198.29	5,169.10	29.19	178.077		
7,600.00	7,598.10	7,524.40	7,519.22	16.55	13.11	-179.69	-5,199.08	-93.28	5,199.42	5,169.82	29.60	175.649		
7,700.00	7,698.10	7,626.26	7,621.03	16.77	13.29	-179.73	-5,200.00	-90.04	5,200.31	5,170.30	30.00	173.326		
7,800.00	7,798.10	7,711.34	7,706.07	16.99	13.44	-179.76	-5,201.06	-87.46	5,201.53	5,171.15	30.38	171.239		
7,900.00	7,898.10	7,817.11	7,811.79	17.22	13.62	-179.79	-5,202.20	-84.80	5,202.59	5,171.80	30.78	168.999		
8,000.00	7,998.10	7,896.74	7,891.40	17.44	13.76	-179.80	-5,203.30	-83.17	5,203.96	5,172.81	31.15	167.073		
8,100.00	8,098.10	7,981.53	7,976.16	17.66	13.91	-179.82	-5,204.75	-81.52	5,205.66	5,174.14	31.52	165.153		
8,200.00	8,198.10	8,067.84	8,062.44	17.89	14.06	-179.84	-5,206.46	-79.88	5,207.63	5,175.74	31.90	163.273		
8,300.00	8,298.10	8,168.57	8,163.13	18.11	14.24	-179.86	-5,208.66	-78.25	5,209.82	5,177.52	32.30	161.317		
8,400.00	8,398.10	8,262.89	8,257.43	18.33	14.41	-179.87	-5,210.53	-77.49	5,211.81	5,179.12	32.68	159.461		
8,500.00	8,498.10	8,339.03	8,333.54	18.56	14.54	-179.87	-5,212.44	-76.84	5,214.29	5,181.25	33.04	157.815		
8,600.00	8,598.10	8,436.79	8,431.26	18.78	14.72	-179.89	-5,215.06	-75.85	5,216.97	5,183.53	33.44	156.032		
8,700.00	8,698.10	8,543.84	8,538.27	19.01	14.91	-179.90	-5,217.92	-74.65	5,219.65	5,185.80	33.85	154.217		
8,800.00	8,798.10	8,643.66	8,638.05	19.23	15.08	-179.91	-5,220.43	-73.89	5,222.16	5,187.91	34.24	152.498		
8,900.00	8,898.10	8,741.63	8,735.99	19.45	15.26	-179.91	-5,222.98	-73.63	5,224.76	5,190.12	34.64	150.837		
9,000.00	8,998.10	8,867.32	8,861.64	19.68	15.48	-179.91	-5,225.91	-73.26	5,227.08	5,192.00	35.08	149.001		
9,100.00	9,098.10	8,959.63	8,953.93	19.90	15.64	-179.92	-5,227.95	-73.05	5,229.29	5,193.82	35.47	147.449		
9,200.00	9,198.10	9,057.43	9,051.70	20.13	15.81	-179.91	-5,230.16	-73.22	5,231.55	5,195.69	35.86	145.894		
9,300.00	9,298.10	9,144.24	9,138.49	20.35	15.96	-179.91	-5,232.23	-73.63	5,233.94	5,197.71	36.23	144.453		
9,400.00	9,398.10	9,220.42	9,214.64	20.57	16.10	-179.91	-5,234.34	-74.08	5,236.71	5,200.12	36.59	143.125		
9,500.00	9,498.10	9,294.00	9,288.18	20.80	16.23	-179.90	-5,236.73	-74.48	5,239.96	5,203.02	36.94	141.851		
9,600.00	9,597.86	9,386.56	9,380.68	20.99	16.39	1.41	-5,240.04	-75.27	5,238.23	5,201.04	37.19	140.848		
9,700.00	9,695.25	9,489.38	9,483.42	21.17	16.57	1.48	-5,243.68	-76.78	5,219.57	5,182.34	37.23	140.194		
9,800.00	9,787.31	9,563.00	9,556.98	21.35	16.70	1.61	-5,246.45	-78.07	5,184.36	5,147.32	37.04	139.967		

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 126H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3707.1' GL + 30' RKB @ 3732.10usft (Original Well Elev)
Reference Site:	Thistle Unit	MD Reference:	3707.1' GL + 30' RKB @ 3732.10usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	126H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Thistle Unit - 71H - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 126-ISCWSA-GYRO-3, 9949-MWD-ISCWSA, 14979-Project													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Minimum Separation (usft)	Separation Factor	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)						
9,900.00	9,871.26	9,851.02	9,844.92	21.54	16.86	1.82	-5,249.91	-79.26	5,133.62	5,096.88	36.74	139.734		
10,000.00	9,944.53	9,893.38	9,887.24	21.79	16.93	2.13	-5,251.70	-79.65	5,068.94	5,032.77	36.17	140.138		
10,100.00	10,004.91	9,742.00	9,735.80	22.14	17.02	2.67	-5,254.10	-80.15	4,992.46	4,956.92	35.54	140.472		
10,200.00	10,050.56	9,788.22	9,781.96	22.59	17.10	3.70	-5,256.48	-80.74	4,906.12	4,871.16	34.96	140.347		
10,300.00	10,080.09	9,949.00	9,942.57	23.17	17.37	7.01	-5,262.27	-84.72	4,811.85	4,785.28	26.58	181.058		
10,400.00	10,092.60	9,949.00	9,942.57	23.85	17.37	24.45	-5,262.27	-84.72	4,713.15	4,682.82	30.33	155.384		
10,500.00	10,093.69	9,949.00	9,942.57	24.65	17.37	40.24	-5,262.27	-84.72	4,613.27	4,577.02	36.25	127.268		
10,600.00	10,094.53	9,949.00	9,942.57	25.54	17.37	40.24	-5,262.27	-84.72	4,513.38	4,476.53	36.85	122.486		
10,700.00	10,095.36	9,960.30	9,953.86	26.54	17.37	42.36	-5,262.52	-85.15	4,413.44	4,375.18	38.26	115.368		
10,800.00	10,096.20	9,961.20	9,954.76	27.62	17.37	42.53	-5,262.55	-85.19	4,313.55	4,274.47	39.07	110.395		
10,900.00	10,097.03	9,962.13	9,955.69	28.78	17.37	42.72	-5,262.57	-85.22	4,213.66	4,173.71	39.96	105.459		
11,000.00	10,097.87	9,963.10	9,956.65	30.00	17.37	42.91	-5,262.60	-85.26	4,113.78	4,072.89	40.90	100.592		
11,100.00	10,098.71	9,964.09	9,957.65	31.28	17.37	43.11	-5,262.62	-85.30	4,013.91	3,972.02	41.89	95.822		
11,200.00	10,099.54	9,965.13	9,958.68	32.62	17.37	43.31	-5,262.65	-85.34	3,914.04	3,871.11	42.93	91.168		
11,300.00	10,100.38	9,966.20	9,959.75	34.00	17.37	43.53	-5,262.69	-85.39	3,814.18	3,770.16	44.02	86.644		
11,400.00	10,101.21	9,967.31	9,960.86	35.42	17.37	43.76	-5,262.72	-85.43	3,714.32	3,669.17	45.15	82.262		
11,500.00	10,102.05	9,968.46	9,962.01	36.88	17.37	44.00	-5,262.75	-85.48	3,614.47	3,568.15	46.32	78.027		
11,600.00	10,102.89	9,979.00	9,972.53	38.37	17.37	46.26	-5,263.11	-85.90	3,514.67	3,466.24	48.43	72.572		
11,700.00	10,103.72	9,979.00	9,972.53	39.89	17.37	46.26	-5,263.11	-85.90	3,414.82	3,365.24	49.58	68.870		
11,800.00	10,104.56	9,979.00	9,972.53	41.44	17.37	46.26	-5,263.11	-85.90	3,314.99	3,264.23	50.76	65.310		
11,900.00	10,105.39	9,979.00	9,972.53	43.00	17.37	46.26	-5,263.11	-85.90	3,215.17	3,163.21	51.95	61.889		
12,000.00	10,106.23	9,979.00	9,972.53	44.59	17.37	46.26	-5,263.11	-85.90	3,115.35	3,062.19	53.16	58.604		
12,100.00	10,107.07	9,979.00	9,972.53	46.20	17.37	46.26	-5,263.11	-85.90	3,015.55	2,961.17	54.38	55.449		
12,200.00	10,107.90	9,979.00	9,972.53	47.82	17.37	46.26	-5,263.11	-85.90	2,915.76	2,860.14	55.62	52.421		
12,300.00	10,108.74	9,979.00	9,972.53	49.46	17.37	46.26	-5,263.11	-85.90	2,815.99	2,759.12	56.87	49.514		
12,400.00	10,109.57	9,979.00	9,972.53	51.11	17.37	46.26	-5,263.11	-85.90	2,716.24	2,658.10	58.13	46.723		
12,500.00	10,110.41	9,979.00	9,972.53	52.77	17.37	46.26	-5,263.11	-85.90	2,616.50	2,557.09	59.41	44.044		
12,600.00	10,111.25	9,979.00	9,972.53	54.44	17.37	46.26	-5,263.11	-85.90	2,516.78	2,456.10	60.69	41.472		
12,700.00	10,112.08	9,979.00	9,972.53	56.12	17.37	46.26	-5,263.11	-85.90	2,417.09	2,355.11	61.98	39.000		
12,800.00	10,112.92	9,979.00	9,972.53	57.81	17.37	46.26	-5,263.11	-85.90	2,317.42	2,254.15	63.27	36.626		
12,900.00	10,113.75	9,979.00	9,972.53	59.51	17.37	46.26	-5,263.11	-85.90	2,217.79	2,153.21	64.58	34.344		
13,000.00	10,114.59	9,979.00	9,972.53	61.22	17.37	46.26	-5,263.11	-85.90	2,118.19	2,052.30	65.89	32.149		
13,100.00	10,115.43	9,979.00	9,972.53	62.94	17.37	46.26	-5,263.11	-85.90	2,018.62	1,951.42	67.20	30.038		
13,200.00	10,116.26	9,979.00	9,972.53	64.66	17.37	46.26	-5,263.11	-85.90	1,919.11	1,850.58	68.52	28.006		
13,300.00	10,117.10	9,990.86	9,984.37	66.38	17.37	49.01	-5,263.67	-86.41	1,819.49	1,747.73	71.76	25.355		
13,400.00	10,117.93	9,992.56	9,986.06	68.12	17.37	49.42	-5,263.77	-86.48	1,720.04	1,646.62	73.42	23.428		
13,500.00	10,118.77	9,994.40	9,987.90	69.85	17.37	49.87	-5,263.88	-86.57	1,620.65	1,545.53	75.12	21.574		
13,600.00	10,119.61	9,996.42	9,989.91	71.60	17.37	50.37	-5,264.01	-86.66	1,521.33	1,444.45	76.87	19.790		
13,700.00	10,120.44	10,008.00	10,001.45	73.34	17.37	53.39	-5,264.87	-87.19	1,422.20	1,341.83	80.37	17.697		
13,800.00	10,121.28	10,008.00	10,001.45	75.09	17.37	53.39	-5,264.87	-87.19	1,323.02	1,241.19	81.83	16.169		
13,900.00	10,122.11	10,008.00	10,001.45	76.85	17.37	53.39	-5,264.87	-87.19	1,223.97	1,140.68	83.29	14.695		
14,000.00	10,122.95	10,008.00	10,001.45	78.60	17.37	53.39	-5,264.87	-87.19	1,125.10	1,040.34	84.76	13.274		
14,100.00	10,123.79	10,008.00	10,001.45	80.37	17.37	53.39	-5,264.87	-87.19	1,026.44	940.21	86.23	11.904		
14,200.00	10,124.62	10,008.00	10,001.45	82.13	17.37	53.39	-5,264.87	-87.19	928.07	840.37	87.70	10.582		
14,300.00	10,125.46	10,017.24	10,010.64	83.90	17.37	55.96	-5,265.71	-87.66	829.96	738.92	91.05	9.116		
14,400.00	10,126.29	10,021.72	10,015.09	85.67	17.37	57.26	-5,266.18	-87.90	732.35	638.88	93.48	7.835		
14,500.00	10,127.13	10,026.92	10,020.25	87.44	17.37	58.82	-5,266.76	-88.21	635.40	539.33	96.07	6.614		
14,600.00	10,127.97	10,038.00	10,031.21	89.21	17.37	62.29	-5,268.17	-88.92	539.48	439.64	99.85	5.403		
14,700.00	10,128.80	10,038.00	10,031.21	90.99	17.37	62.29	-5,268.17	-88.92	445.06	343.61	101.45	4.387		
14,800.00	10,129.64	10,049.09	10,042.15	92.77	17.38	65.96	-5,269.79	-89.73	353.42	248.25	105.16	3.361		
14,900.00	10,130.47	10,059.84	10,052.71	94.55	17.38	69.69	-5,271.57	-90.61	267.25	158.62	108.63	2.460		

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 126H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3707.1' GL + 30' RKB @ 3732.10usft (Original Well Elev)
Reference Site:	Thistle Unit	MD Reference:	3707.1' GL + 30' RKB @ 3732.10usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	126H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Thistle Unit - 71H - OH - OH													Offset Site Error: 0.00 usft
Survey Program: 126-ISCWSA-GYRO-3, 9949-MWD-ISCWSA, 14979-Project													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)					
15,000.00	10,131.31	10,073.42	10,066.00	96.34	17.38	74.58	-5,274.08	-91.85	193.66	81.51	112.15	1.727	
15,100.00	10,132.15	10,090.79	10,082.90	98.12	17.38	81.01	-5,277.71	-93.65	151.53	36.24	115.29	1.314	Level 3
15,126.13	10,132.37	10,097.00	10,088.91	98.59	17.38	83.33	-5,279.11	-94.35	149.41	33.46	115.95	1.289	Level 3, CC, ES, SF
15,200.00	10,132.98	10,114.47	10,105.69	99.91	17.39	89.77	-5,283.47	-96.44	165.81	48.57	117.25	1.414	Level 3
15,300.00	10,133.82	10,152.99	10,141.97	101.69	17.39	102.85	-5,295.38	-101.48	224.32	107.80	116.52	1.925	
15,400.00	10,134.65	10,222.05	10,204.74	103.48	17.42	120.75	-5,322.80	-109.88	299.21	192.66	106.55	2.808	
15,500.00	10,135.49	10,394.82	10,341.58	105.28	17.62	142.99	-5,426.38	-119.09	369.59	286.72	82.87	4.460	
15,600.00	10,136.33	10,623.54	10,458.50	107.07	18.56	153.00	-5,621.30	-116.25	412.84	341.78	71.07	5.809	
15,700.00	10,137.16	10,832.57	10,495.56	108.86	20.17	154.53	-5,826.21	-116.85	426.81	355.88	70.93	6.017	
15,800.00	10,138.00	10,939.34	10,499.84	110.66	21.21	154.17	-5,932.88	-119.00	431.52	358.48	73.05	5.908	
15,900.00	10,138.83	11,040.92	10,502.34	112.45	22.29	153.58	-6,034.36	-122.50	435.49	359.94	75.55	5.764	
16,000.00	10,139.67	11,142.61	10,503.19	114.25	23.43	152.75	-6,135.94	-127.27	438.64	360.15	78.49	5.589	
16,100.00	10,140.51	11,242.17	10,505.07	116.05	24.54	152.10	-6,235.39	-131.23	442.46	361.25	81.21	5.448	
16,200.00	10,141.34	11,351.66	10,506.73	117.85	25.86	151.68	-6,344.86	-132.88	444.84	361.09	83.75	5.311	
16,300.00	10,142.18	11,457.18	10,506.10	119.65	27.25	151.12	-6,450.36	-134.60	445.43	358.88	86.55	5.146	
16,400.00	10,143.01	11,549.53	10,506.53	121.45	28.42	150.85	-6,542.70	-134.68	446.27	357.46	88.81	5.025	
16,500.00	10,143.85	11,645.00	10,508.29	123.25	29.69	150.65	-6,638.16	-134.88	448.37	357.34	91.03	4.925	
16,600.00	10,144.69	11,741.03	10,509.89	125.06	31.04	150.19	-6,734.13	-137.31	451.46	357.73	93.73	4.817	
16,700.00	10,145.52	11,850.00	10,511.19	126.86	32.59	149.66	-6,843.07	-139.91	454.10	357.38	96.71	4.695	
16,800.00	10,146.36	11,957.03	10,512.19	128.67	34.16	149.45	-6,950.09	-139.47	455.12	355.94	99.18	4.589	
16,900.00	10,147.19	12,064.77	10,511.11	130.47	35.82	149.12	-7,057.81	-138.93	454.43	352.50	101.93	4.458	
17,000.00	10,148.03	12,163.74	10,508.99	132.28	37.33	148.73	-7,156.77	-138.48	452.83	348.12	104.71	4.325	
17,100.00	10,148.87	12,264.51	10,507.87	134.08	38.83	148.52	-7,257.52	-136.96	451.56	344.36	107.20	4.212	
17,200.00	10,149.70	12,369.85	10,505.91	135.89	40.48	148.30	-7,362.82	-134.87	449.39	339.59	109.80	4.093	
17,300.00	10,150.54	12,461.49	10,504.50	137.70	41.89	148.12	-7,454.43	-133.16	447.60	335.40	112.20	3.989	
17,325.16	10,150.75	12,483.24	10,504.57	138.16	42.21	148.10	-7,476.17	-132.70	447.50	334.78	112.72	3.970	
17,400.00	10,151.37	12,549.70	10,506.08	139.51	43.21	148.18	-7,542.59	-131.08	448.33	334.25	114.08	3.930	
17,474.81	10,152.00	12,625.94	10,508.23	140.86	44.41	148.28	-7,618.79	-129.38	449.61	334.09	115.52	3.892	

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 126H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3707.1' GL + 30' RKB @ 3732.10usft (Original Well Elev)
Reference Site:	Thistle Unit	MD Reference:	3707.1' GL + 30' RKB @ 3732.10usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	126H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Thistle Unit - 96H - OH - Plan #1													Offset Site Error: 0.00 usft
Survey Program: 0-LEAM MWD+HDGM													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)					
0.00	0.00	0.00	0.00	0.00	0.00	89.67	0.58	99.83	99.83				
100.00	100.00	99.20	99.20	0.08	0.08	89.67	0.58	99.83	99.83	99.66	0.17	594.589	
200.00	200.00	199.20	199.20	0.31	0.31	89.67	0.58	99.83	99.83	99.22	0.62	161.983	
300.00	300.00	299.20	299.20	0.53	0.53	89.67	0.58	99.83	99.83	98.77	1.07	93.665	
400.00	400.00	399.20	399.20	0.76	0.76	89.67	0.58	99.83	99.83	98.32	1.52	65.879	
500.00	500.00	499.20	499.20	0.98	0.98	89.67	0.58	99.83	99.83	97.87	1.96	50.807	
600.00	600.00	599.20	599.20	1.21	1.21	89.67	0.58	99.83	99.83	97.42	2.41	41.348	
700.00	700.00	699.20	699.20	1.43	1.43	89.67	0.58	99.83	99.83	96.97	2.86	34.858	
800.00	800.00	799.20	799.20	1.66	1.66	89.67	0.58	99.83	99.83	96.52	3.31	30.129	
900.00	900.00	899.20	899.20	1.88	1.88	89.67	0.58	99.83	99.83	96.07	3.76	26.530	
1,000.00	1,000.00	999.20	999.20	2.11	2.11	89.67	0.58	99.83	99.83	95.62	4.21	23.699	
1,100.00	1,100.00	1,099.20	1,099.20	2.33	2.33	89.67	0.58	99.83	99.83	95.17	4.66	21.413	
1,200.00	1,200.00	1,199.20	1,199.20	2.56	2.55	89.67	0.58	99.83	99.83	94.72	5.11	19.530	
1,300.00	1,300.00	1,299.20	1,299.20	2.78	2.78	89.67	0.58	99.83	99.83	94.27	5.56	17.952	
1,400.00	1,400.00	1,399.20	1,399.20	3.01	3.00	89.67	0.58	99.83	99.83	93.82	6.01	16.609	
1,500.00	1,500.00	1,499.20	1,499.20	3.23	3.23	89.67	0.58	99.83	99.83	93.37	6.46	15.453	
1,600.00	1,600.00	1,599.20	1,599.20	3.46	3.45	89.67	0.58	99.83	99.83	92.92	6.91	14.448	
1,700.00	1,700.00	1,699.20	1,699.20	3.68	3.68	89.67	0.58	99.83	99.83	92.47	7.36	13.565	
1,800.00	1,800.00	1,799.20	1,799.20	3.91	3.90	89.67	0.58	99.83	99.83	92.02	7.81	12.784	
1,900.00	1,900.00	1,899.20	1,899.20	4.13	4.13	89.67	0.58	99.83	99.83	91.57	8.26	12.089	
2,000.00	2,000.00	1,999.20	1,999.20	4.35	4.35	89.67	0.58	99.83	99.83	91.12	8.71	11.465	
2,100.00	2,100.00	2,099.20	2,099.20	4.58	4.58	89.67	0.58	99.83	99.83	90.67	9.16	10.902	
2,200.00	2,200.00	2,199.20	2,199.20	4.80	4.80	89.67	0.58	99.83	99.83	90.22	9.61	10.392	
2,300.00	2,300.00	2,299.20	2,299.20	5.03	5.03	89.67	0.58	99.83	99.83	89.78	10.06	9.927	
2,400.00	2,400.00	2,399.20	2,399.20	5.25	5.25	89.67	0.58	99.83	99.83	89.33	10.51	9.502	
2,500.00	2,500.00	2,499.20	2,499.20	5.48	5.48	89.67	0.58	99.83	99.83	88.88	10.96	9.112	
2,600.00	2,600.00	2,599.20	2,599.20	5.70	5.70	89.67	0.58	99.83	99.83	88.43	11.41	8.753	
2,700.00	2,700.00	2,699.20	2,699.20	5.93	5.93	89.67	0.58	99.83	99.83	87.98	11.85	8.421	
2,800.00	2,800.00	2,799.20	2,799.20	6.15	6.15	89.67	0.58	99.83	99.83	87.53	12.30	8.114	
2,900.00	2,900.00	2,899.20	2,899.20	6.38	6.38	89.67	0.58	99.83	99.83	87.08	12.75	7.828	
3,000.00	3,000.00	2,999.20	2,999.20	6.60	6.60	89.67	0.58	99.83	99.83	86.63	13.20	7.561	
3,100.00	3,100.00	3,099.20	3,099.20	6.83	6.83	89.67	0.58	99.83	99.83	86.18	13.65	7.312	
3,200.00	3,200.00	3,199.20	3,199.20	7.05	7.05	89.67	0.58	99.83	99.83	85.73	14.10	7.079	
3,300.00	3,300.00	3,299.20	3,299.20	7.28	7.28	89.67	0.58	99.83	99.83	85.28	14.55	6.860	
3,400.00	3,400.00	3,399.20	3,399.20	7.50	7.50	89.67	0.58	99.83	99.83	84.83	15.00	6.655	
3,500.00	3,500.00	3,499.20	3,499.20	7.73	7.72	89.67	0.58	99.83	99.83	84.38	15.45	6.461	
3,600.00	3,600.00	3,599.20	3,599.20	7.95	7.95	89.67	0.58	99.83	99.83	83.93	15.90	6.279	
3,700.00	3,700.00	3,699.20	3,699.20	8.18	8.17	89.67	0.58	99.83	99.83	83.48	16.35	6.106	
3,800.00	3,800.00	3,799.20	3,799.20	8.40	8.40	89.67	0.58	99.83	99.83	83.03	16.80	5.943	
3,900.00	3,900.00	3,899.20	3,899.20	8.63	8.62	89.67	0.58	99.83	99.83	82.58	17.25	5.788	
4,000.00	4,000.00	3,999.20	3,999.20	8.85	8.85	89.67	0.58	99.83	99.83	82.13	17.70	5.641	
4,100.00	4,100.00	4,099.20	4,099.20	9.07	9.07	89.67	0.58	99.83	99.83	81.68	18.15	5.501	
4,200.00	4,200.00	4,199.20	4,199.20	9.30	9.30	89.67	0.58	99.83	99.83	81.23	18.60	5.368	
4,300.00	4,300.00	4,299.20	4,299.20	9.52	9.52	89.67	0.58	99.83	99.83	80.78	19.05	5.241	
4,400.00	4,400.00	4,399.20	4,399.20	9.75	9.75	89.67	0.58	99.83	99.83	80.34	19.50	5.120	
4,500.00	4,500.00	4,499.20	4,499.20	9.97	9.97	89.67	0.58	99.83	99.83	79.89	19.95	5.005	
4,600.00	4,600.00	4,599.20	4,599.20	10.20	10.20	89.67	0.58	99.83	99.83	79.44	20.40	4.895	
4,700.00	4,700.00	4,699.20	4,699.20	10.42	10.42	89.67	0.58	99.83	99.83	78.99	20.85	4.789	
4,800.00	4,800.00	4,799.20	4,799.20	10.65	10.65	89.67	0.58	99.83	99.83	78.54	21.29	4.688	
4,900.00	4,900.00	4,899.20	4,899.20	10.87	10.87	89.67	0.58	99.83	99.83	78.09	21.74	4.591	CC, ES
5,000.00	5,000.00	4,999.20	4,999.20	11.08	11.10	179.67	0.58	99.83	100.70	78.53	22.18	4.541	

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 126H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3707.1' GL + 30' RKB @ 3732.10usft (Original Well Elev)
Reference Site:	Thistle Unit	MD Reference:	3707.1' GL + 30' RKB @ 3732.10usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	126H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Thistle Unit - 96H - OH - Plan #1													Offset Site Error: 0.00 usft
Survey Program: O-LEAM MWD+HDGM													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)					
5,100.00	5,099.96	5,099.16	5,099.16	11.28	11.32	179.68	0.58	99.83	103.32	80.73	22.59	4.574	
5,200.00	5,199.86	5,199.06	5,199.06	11.48	11.55	179.69	0.58	99.83	107.68	84.69	22.99	4.683	
5,300.00	5,299.68	5,298.88	5,298.88	11.68	11.77	179.71	0.58	99.83	113.79	90.40	23.39	4.865	
5,400.00	5,399.37	5,398.57	5,398.57	11.89	11.99	179.73	0.58	99.83	121.63	97.85	23.78	5.114	
5,500.00	5,499.02	5,498.22	5,498.22	12.09	12.22	179.74	0.58	99.83	129.91	105.69	24.22	5.364	
5,600.00	5,598.75	5,597.95	5,597.95	12.29	12.44	179.76	0.58	99.83	137.33	112.67	24.66	5.570	
5,700.00	5,698.53	5,697.73	5,697.73	12.49	12.67	179.77	0.58	99.83	143.87	118.78	25.09	5.734	
5,800.00	5,798.37	5,797.57	5,797.57	12.69	12.89	179.78	0.58	99.83	149.54	124.01	25.52	5.859	
5,900.00	5,898.26	5,897.46	5,897.46	12.89	13.11	179.78	0.58	99.83	154.33	128.38	25.96	5.946	
6,000.00	5,998.18	5,997.38	5,997.38	13.09	13.34	179.79	0.58	99.83	158.26	131.87	26.39	5.997	
6,100.00	6,098.13	6,097.33	6,097.33	13.29	13.56	179.79	0.58	99.83	161.31	134.49	26.82	6.015	
6,200.00	6,198.11	6,197.31	6,197.31	13.50	13.79	179.80	0.58	99.83	163.49	136.25	27.25	6.000	
6,300.00	6,298.10	6,297.30	6,297.30	13.70	14.01	179.80	0.58	99.83	164.80	137.13	27.68	5.955	
6,400.00	6,398.10	6,397.30	6,397.30	13.89	14.24	89.80	0.58	99.83	165.24	137.15	28.09	5.882	
6,500.00	6,498.10	6,497.30	6,497.30	14.09	14.46	89.80	0.58	99.83	165.24	136.72	28.52	5.794	
6,600.00	6,598.10	6,597.30	6,597.30	14.31	14.69	89.80	0.58	99.83	165.24	136.27	28.97	5.705	
6,700.00	6,698.10	6,697.30	6,697.30	14.53	14.91	89.80	0.58	99.83	165.24	135.83	29.41	5.618	
6,800.00	6,798.10	6,797.30	6,797.30	14.76	15.14	89.80	0.58	99.83	165.24	135.38	29.86	5.533	
6,900.00	6,898.10	6,897.30	6,897.30	14.98	15.36	89.80	0.58	99.83	165.24	134.93	30.31	5.451	
7,000.00	6,998.10	6,997.30	6,997.30	15.20	15.59	89.80	0.58	99.83	165.24	134.48	30.76	5.372	
7,100.00	7,098.10	7,097.30	7,097.30	15.43	15.81	89.80	0.58	99.83	165.24	134.03	31.21	5.295	
7,200.00	7,198.10	7,197.30	7,197.30	15.65	16.04	89.80	0.58	99.83	165.24	133.58	31.66	5.220	
7,300.00	7,298.10	7,297.30	7,297.30	15.87	16.26	89.80	0.58	99.83	165.24	133.13	32.11	5.147	
7,400.00	7,398.10	7,397.30	7,397.30	16.10	16.49	89.80	0.58	99.83	165.24	132.68	32.55	5.076	
7,500.00	7,498.10	7,497.30	7,497.30	16.32	16.71	89.80	0.58	99.83	165.24	132.24	33.00	5.007	
7,600.00	7,598.10	7,597.30	7,597.30	16.55	16.94	89.80	0.58	99.83	165.24	131.79	33.45	4.940	
7,700.00	7,698.10	7,697.30	7,697.30	16.77	17.16	89.80	0.58	99.83	165.24	131.34	33.90	4.874	
7,800.00	7,798.10	7,797.30	7,797.30	16.99	17.39	89.80	0.58	99.83	165.24	130.89	34.35	4.811	
7,900.00	7,898.10	7,897.30	7,897.30	17.22	17.61	89.80	0.58	99.83	165.24	130.44	34.80	4.748	
8,000.00	7,998.10	7,997.30	7,997.30	17.44	17.83	89.80	0.58	99.83	165.24	129.99	35.25	4.688	
8,100.00	8,098.10	8,097.30	8,097.30	17.66	18.06	89.80	0.58	99.83	165.24	129.54	35.70	4.629	
8,200.00	8,198.10	8,197.30	8,197.30	17.89	18.28	89.80	0.58	99.83	165.24	129.09	36.14	4.572	
8,300.00	8,298.10	8,297.30	8,297.30	18.11	18.51	89.80	0.58	99.83	165.24	128.65	36.59	4.515	
8,400.00	8,398.10	8,397.30	8,397.30	18.33	18.73	89.80	0.58	99.83	165.24	128.20	37.04	4.461	
8,500.00	8,498.10	8,497.30	8,497.30	18.56	18.96	89.80	0.58	99.83	165.24	127.75	37.49	4.407	
8,600.00	8,598.10	8,597.30	8,597.30	18.78	19.18	89.80	0.58	99.83	165.24	127.30	37.94	4.355	
8,700.00	8,698.10	8,697.30	8,697.30	19.01	19.41	89.80	0.58	99.83	165.24	126.85	38.39	4.304	
8,800.00	8,798.10	8,797.30	8,797.30	19.23	19.63	89.80	0.58	99.83	165.24	126.40	38.84	4.255	
8,900.00	8,898.10	8,897.30	8,897.30	19.45	19.86	89.80	0.58	99.83	165.24	125.95	39.29	4.206	
9,000.00	8,998.10	8,997.30	8,997.30	19.68	20.08	89.80	0.58	99.83	165.24	125.50	39.74	4.158	
9,100.00	9,098.10	9,097.30	9,097.30	19.90	20.31	89.80	0.58	99.83	165.24	125.05	40.19	4.112	
9,200.00	9,198.10	9,197.30	9,197.30	20.13	20.53	89.80	0.58	99.83	165.24	124.60	40.63	4.066	
9,300.00	9,298.10	9,299.75	9,299.41	20.35	20.72	92.07	-5.94	99.04	164.57	123.53	41.05	4.009	
9,367.26	9,365.36	9,366.38	9,364.66	20.50	20.84	96.90	-19.70	97.38	163.97	122.67	41.30	3.970	
9,400.00	9,398.10	9,397.46	9,394.28	20.57	20.89	100.05	-28.67	96.29	164.25	122.82	41.42	3.965	
9,500.00	9,498.10	9,484.10	9,473.72	20.80	21.03	111.71	-62.74	92.17	171.24	129.45	41.79	4.098	
9,600.00	9,597.86	9,559.01	9,536.45	20.99	21.15	-54.14	-103.24	87.27	191.15	149.14	42.01	4.550	
9,700.00	9,695.25	9,628.40	9,588.22	21.17	21.28	-43.52	-149.02	81.73	218.02	176.39	41.63	5.237	
9,800.00	9,787.31	9,693.78	9,630.40	21.35	21.43	-35.33	-198.54	75.73	247.80	207.42	40.38	6.137	
9,900.00	9,871.26	9,756.12	9,663.93	21.54	21.61	-29.10	-250.66	69.43	277.71	239.45	38.26	7.259	

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 126H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3707.1' GL + 30' RKB @ 3732.10usft (Original Well Elev)
Reference Site:	Thistle Unit	MD Reference:	3707.1' GL + 30' RKB @ 3732.10usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	126H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Thistle Unit - 96H - OH - Plan #1													Offset Site Error:	0.00 usft
Survey Program: O-LEAM MWD+HDGM													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)						
10,000.00	9,944.53	9,816.15	9,689.49	21.79	21.81	-24.33	-304.55	62.91	305.94	270.47	35.47	8.624		
10,100.00	10,004.91	9,875.00	9,707.88	22.14	22.04	-20.76	-360.09	56.98	331.42	299.05	32.37	10.237		
10,200.00	10,050.56	9,925.00	9,718.36	22.59	22.26	-18.55	-408.85	53.77	353.44	323.95	29.49	11.985		
10,300.00	10,080.09	9,984.67	9,724.53	23.17	22.55	-16.98	-468.15	52.28	371.03	343.73	27.31	13.587		
10,400.00	10,092.60	10,071.71	9,725.99	23.85	23.04	-16.11	-555.17	52.86	380.82	354.37	26.45	14.396		
10,500.00	10,093.69	10,171.70	9,727.39	24.65	23.69	-15.91	-655.14	53.63	380.11	353.21	26.90	14.131		
10,600.00	10,094.53	10,271.68	9,728.79	25.54	24.42	-15.71	-755.12	54.40	379.16	351.67	27.49	13.794		
10,700.00	10,095.36	10,371.67	9,730.19	26.54	25.24	-15.52	-855.09	55.16	378.22	350.06	28.16	13.431		
10,800.00	10,096.20	10,471.66	9,731.60	27.62	26.14	-15.32	-955.07	55.93	377.27	348.37	28.90	13.053		
10,900.00	10,097.03	10,571.65	9,733.00	28.78	27.11	-15.13	-1,055.04	56.70	376.34	346.62	29.72	12.664		
11,000.00	10,097.87	10,671.63	9,734.40	30.00	28.14	-14.93	-1,155.02	57.47	375.40	344.82	30.59	12.273		
11,100.00	10,098.71	10,771.62	9,735.80	31.28	29.23	-14.73	-1,254.99	58.24	374.48	342.96	31.51	11.883		
11,200.00	10,099.54	10,871.61	9,737.20	32.62	30.37	-14.53	-1,354.96	59.00	373.55	341.06	32.49	11.498		
11,300.00	10,100.38	10,971.60	9,738.60	34.00	31.55	-14.33	-1,454.94	59.77	372.63	339.13	33.50	11.122		
11,400.00	10,101.21	11,071.58	9,740.00	35.42	32.77	-14.13	-1,554.91	60.54	371.72	337.16	34.56	10.757		
11,500.00	10,102.05	11,171.57	9,741.40	36.88	34.03	-13.93	-1,654.89	61.31	370.81	335.17	35.64	10.404		
11,600.00	10,102.89	11,271.56	9,742.80	38.37	35.32	-13.72	-1,754.86	62.07	369.90	333.15	36.75	10.064		
11,700.00	10,103.72	11,371.54	9,744.20	39.89	36.63	-13.52	-1,854.84	62.84	369.00	331.11	37.89	9.738		
11,800.00	10,104.56	11,471.53	9,745.60	41.44	37.97	-13.31	-1,954.81	63.61	368.10	329.05	39.05	9.426		
11,900.00	10,105.39	11,571.52	9,747.00	43.00	39.34	-13.10	-2,054.79	64.38	367.21	326.98	40.23	9.127		
12,000.00	10,106.23	11,671.51	9,748.40	44.59	40.72	-12.90	-2,154.76	65.15	366.33	324.90	41.43	8.842		
12,100.00	10,107.07	11,771.49	9,749.80	46.20	42.13	-12.69	-2,254.74	65.91	365.44	322.81	42.64	8.571		
12,200.00	10,107.90	11,871.48	9,751.20	47.82	43.55	-12.48	-2,354.71	66.68	364.57	320.71	43.86	8.312		
12,300.00	10,108.74	11,971.47	9,752.60	49.46	44.98	-12.27	-2,454.68	67.45	363.70	318.60	45.09	8.065		
12,400.00	10,109.57	12,071.45	9,754.00	51.11	46.43	-12.06	-2,554.66	68.22	362.83	316.49	46.33	7.831		
12,500.00	10,110.41	12,171.44	9,755.40	52.77	47.89	-11.84	-2,654.63	68.99	361.97	314.38	47.58	7.607		
12,600.00	10,111.25	12,271.43	9,756.80	54.44	49.37	-11.63	-2,754.61	69.75	361.11	312.27	48.84	7.394		
12,700.00	10,112.08	12,371.42	9,758.20	56.12	50.85	-11.42	-2,854.58	70.52	360.26	310.16	50.10	7.191		
12,800.00	10,112.92	12,471.40	9,759.60	57.81	52.34	-11.20	-2,954.56	71.29	359.41	308.05	51.36	6.997		
12,900.00	10,113.75	12,571.39	9,761.00	59.51	53.84	-10.98	-3,054.53	72.06	358.57	305.94	52.63	6.813		
13,000.00	10,114.59	12,671.38	9,762.40	61.22	55.35	-10.76	-3,154.51	72.82	357.73	303.83	53.90	6.636		
13,100.00	10,115.43	12,771.37	9,763.80	62.94	56.87	-10.55	-3,254.48	73.59	356.90	301.72	55.18	6.468		
13,200.00	10,116.26	12,871.35	9,765.20	64.66	58.39	-10.33	-3,354.45	74.36	356.08	299.62	56.45	6.307		
13,300.00	10,117.10	12,971.34	9,766.60	66.38	59.92	-10.11	-3,454.43	75.13	355.25	297.52	57.73	6.154		
13,400.00	10,117.93	13,071.33	9,768.00	68.12	61.46	-9.88	-3,554.40	75.90	354.44	295.43	59.01	6.006		
13,500.00	10,118.77	13,171.31	9,769.40	69.85	63.00	-9.66	-3,654.38	76.66	353.63	293.34	60.29	5.866		
13,600.00	10,119.61	13,271.30	9,770.80	71.60	64.54	-9.44	-3,754.35	77.43	352.82	291.25	61.57	5.731		
13,700.00	10,120.44	13,371.29	9,772.20	73.34	66.09	-9.21	-3,854.33	78.20	352.02	289.18	62.85	5.601		
13,800.00	10,121.28	13,471.28	9,773.60	75.09	67.65	-8.99	-3,954.30	78.97	351.23	287.10	64.13	5.477		
13,900.00	10,122.11	13,571.26	9,775.01	76.85	69.21	-8.76	-4,054.28	79.74	350.44	285.03	65.41	5.358		
14,000.00	10,122.95	13,671.25	9,776.41	78.60	70.77	-8.53	-4,154.25	80.50	349.66	282.97	66.69	5.243		
14,100.00	10,123.79	13,771.24	9,777.81	80.37	72.34	-8.30	-4,254.22	81.27	348.88	280.91	67.97	5.133		
14,200.00	10,124.62	13,871.23	9,779.21	82.13	73.90	-8.07	-4,354.20	82.04	348.11	278.86	69.25	5.027		
14,300.00	10,125.46	13,971.21	9,780.61	83.90	75.48	-7.84	-4,454.17	82.81	347.34	276.81	70.53	4.925		
14,400.00	10,126.29	14,071.20	9,782.01	85.67	77.05	-7.61	-4,554.15	83.57	346.58	274.77	71.81	4.826		
14,500.00	10,127.13	14,171.19	9,783.41	87.44	78.63	-7.38	-4,654.12	84.34	345.83	272.73	73.10	4.731		
14,600.00	10,127.97	14,271.17	9,784.81	89.21	80.21	-7.14	-4,754.10	85.11	345.08	270.70	74.38	4.640		
14,700.00	10,128.80	14,371.16	9,786.21	90.99	81.79	-6.91	-4,854.07	85.88	344.34	268.68	75.66	4.551		
14,800.00	10,129.64	14,471.15	9,787.61	92.77	83.38	-6.67	-4,954.05	86.65	343.60	266.65	76.94	4.466		
14,900.00	10,130.47	14,571.14	9,789.01	94.55	84.97	-6.43	-5,054.02	87.41	342.87	264.64	78.23	4.383		
15,000.00	10,131.31	14,671.12	9,790.41	96.34	86.56	-6.20	-5,154.00	88.18	342.14	262.63	79.51	4.303		

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 126H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3707.1' GL + 30' RKB @ 3732.10usft (Original Well Elev)
Reference Site:	Thistle Unit	MD Reference:	3707.1' GL + 30' RKB @ 3732.10usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	126H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Thistle Unit - 96H - OH - Plan #1													Offset Site Error: 0.00 usft
Survey Program: O-LEAM MWD+HDGM													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)					
15,100.00	10,132.15	14,771.11	9,791.81	98.12	88.15	-5.96	-5,253.97	88.95	341.42	260.62	80.80	4.225	
15,200.00	10,132.98	14,871.10	9,793.21	99.91	89.74	-5.72	-5,353.94	89.72	340.71	258.62	82.09	4.150	
15,300.00	10,133.82	14,971.08	9,794.61	101.69	91.33	-5.47	-5,453.92	90.49	340.00	256.62	83.38	4.078	
15,400.00	10,134.65	15,071.07	9,796.01	103.48	92.93	-5.23	-5,553.89	91.25	339.30	254.62	84.68	4.007	
15,500.00	10,135.49	15,171.06	9,797.41	105.28	94.53	-4.99	-5,653.87	92.02	338.60	252.63	85.97	3.939	
15,600.00	10,136.33	15,271.05	9,798.81	107.07	96.13	-4.75	-5,753.84	92.79	337.91	250.64	87.27	3.872	
15,700.00	10,137.16	15,371.03	9,800.21	108.86	97.73	-4.50	-5,853.82	93.56	337.23	248.66	88.57	3.807	
15,800.00	10,138.00	15,471.02	9,801.61	110.66	99.33	-4.25	-5,953.79	94.32	336.55	246.67	89.88	3.745	
15,900.00	10,138.83	15,571.01	9,803.01	112.45	100.93	-4.01	-6,053.77	95.09	335.88	244.69	91.19	3.683	
16,000.00	10,139.67	15,671.00	9,804.41	114.25	102.54	-3.76	-6,153.74	95.86	335.22	242.71	92.50	3.624	
16,100.00	10,140.51	15,770.98	9,805.81	116.05	104.14	-3.51	-6,253.71	96.63	334.56	240.74	93.82	3.566	
16,200.00	10,141.34	15,870.97	9,807.21	117.85	105.75	-3.26	-6,353.69	97.40	333.91	238.76	95.15	3.509	
16,300.00	10,142.18	15,970.96	9,808.61	119.65	107.36	-3.01	-6,453.66	98.16	333.26	236.78	96.48	3.454	
16,400.00	10,143.01	16,070.94	9,810.01	121.45	108.97	-2.76	-6,553.64	98.93	332.62	234.81	97.81	3.401	
16,500.00	10,143.85	16,170.93	9,811.41	123.25	110.58	-2.50	-6,653.61	99.70	331.99	232.83	99.16	3.348	
16,600.00	10,144.69	16,270.92	9,812.81	125.06	112.19	-2.25	-6,753.59	100.47	331.36	230.86	100.51	3.297	
16,700.00	10,145.52	16,370.91	9,814.21	126.86	113.80	-1.99	-6,853.56	101.24	330.74	228.88	101.87	3.247	
16,800.00	10,146.36	16,470.89	9,815.61	128.67	115.41	-1.74	-6,953.54	102.00	330.13	226.90	103.23	3.198	
16,900.00	10,147.19	16,570.88	9,817.01	130.47	117.03	-1.48	-7,053.51	102.77	329.52	224.92	104.60	3.150	
17,000.00	10,148.03	16,670.87	9,818.42	132.28	118.64	-1.22	-7,153.48	103.54	328.92	222.94	105.99	3.103	
17,100.00	10,148.87	16,770.85	9,819.82	134.08	120.26	-0.97	-7,253.46	104.31	328.33	220.95	107.38	3.058	
17,200.00	10,149.70	16,870.84	9,821.22	135.89	121.87	-0.71	-7,353.43	105.07	327.74	218.96	108.78	3.013	
17,300.00	10,150.54	16,970.83	9,822.62	137.70	123.49	-0.45	-7,453.41	105.84	327.17	216.97	110.19	2.969	
17,400.00	10,151.37	17,070.82	9,824.02	139.51	125.10	-0.18	-7,553.38	106.61	326.59	214.97	111.62	2.926	
17,461.33	10,151.89	17,132.14	9,824.88	140.62	126.10	-0.02	-7,614.70	107.08	326.24	213.75	112.50	2.900	
17,474.81	10,152.00	17,141.05	9,825.00	140.86	126.24	0.00	-7,623.61	107.15	326.20	213.54	112.66	2.896 SF	

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

LEAM Drilling Systems LLC

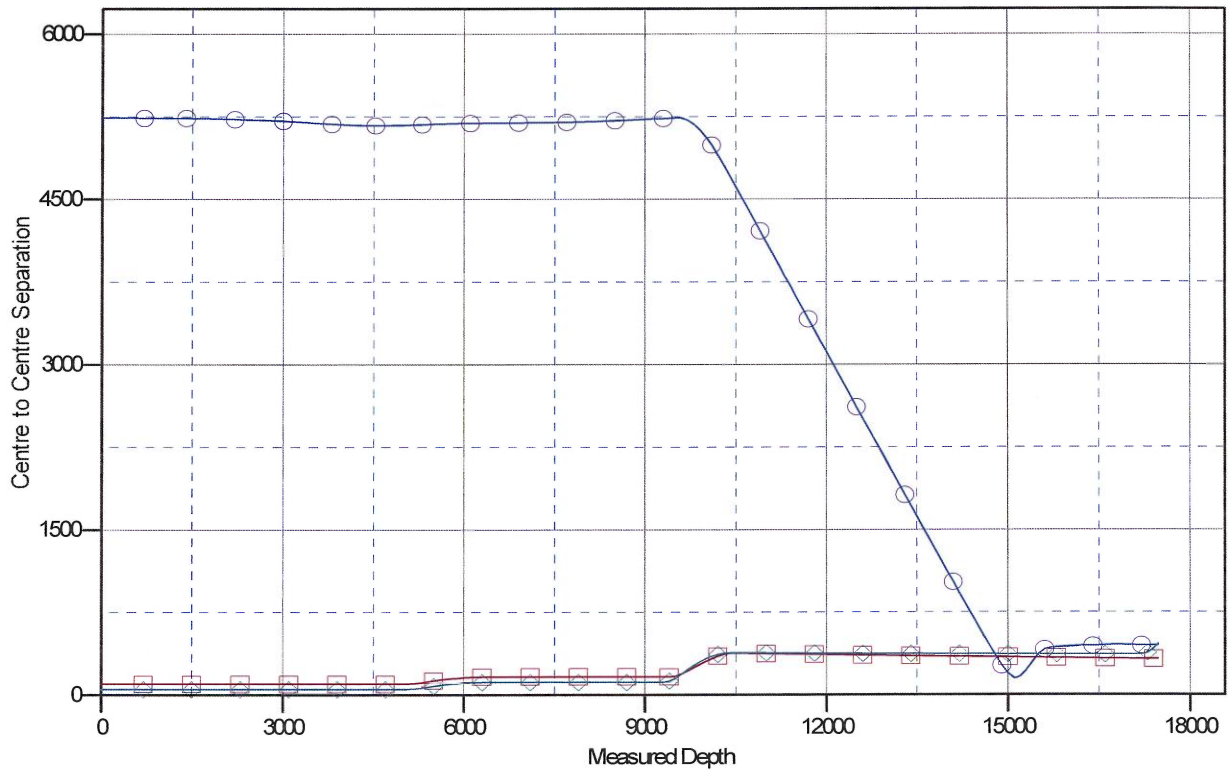
Anticollision Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 126H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3707.1' GL + 30' RKB @ 3732.10usft (Original Well Elev)
Reference Site:	Thistle Unit	MD Reference:	3707.1' GL + 30' RKB @ 3732.10usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	126H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to 3707.1' GL + 30' RKB @ 3732.10usft
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: 126H
Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Grid Convergence at Surface is: 0.42°

Ladder Plot



LEGEND

■ 96H, OH, Plan #1 V0
 ● 71H, OH, OH V0
 ◆ 111H, OH, Plan #1 V0

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

LEAM Drilling Systems LLC

Anticollision Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 126H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3707.1' GL + 30' RKB @ 3732.10usft (Original Well Elev)
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Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	126H	Survey Calculation Method:	Minimum Curvature
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Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to 3707.1' GL + 30' RKB @ 3732.10usft
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: 126H
Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Grid Convergence at Surface is: 0.42°

