

CONFIDENTIAL

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Hobbs

APPLICATION FOR PERMIT TO DRILL OR REENTER

HOBBS OCD

ATS-14-1012
FORM APPROVED
OMB No. 1004-0137
Expires October 31, 2014

5. Lease Serial No.
BHL: NMNM104685

6. If Indian, Allottee or Tribe Name

[H]

1a. Type of work: ☒ DRILL ☐ REENTER

APR 27 2015

1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone

2. Name of Operator Devon Energy Production Co., L.P. (6177) Linda Good

RECEIVED

7. If Unit or CA Agreement, Name and No.

8. Lease Name and Well No.
Taylor Draw 7 Fed 3H

39849

9. API Well No.

70-025-42528

3a. Address 333 W. Sheridan Ave.
Oklahoma City, OK 73102

3b. Phone No. (include area code)
405-552-6558

10. Field and Pool, or Exploratory
Lusk; Bone Spring

41440

4. Location of Well (Report location clearly and in accordance with any State requirements.)
At surface NESE, 1850' FSL & 260' FEL, Unit I PP: 1900' FSL & 330' FEL
At proposed prod. zone NWSW, 2115' FSL & 340' FEL, Lot 3

11. Sec., T. R. M. or Blk. and Survey or Area
7-19S-32E

14. Distance in miles and direction from nearest town or post office*
Approximately 32 miles Southwest of Lovington, New Mexico

UNORTHODOX
LOCATION

12. County or Parish
Lea

13. State
NM

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)
See attached map

16. No. of acres in lease
443.40 Acres

17. Spacing Unit dedicated to this well
160.34 Acres

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.
See attached map

19. Proposed Depth
12,913' MD / 8294' TVD

20. BLM/BIA Bond No. on file
CO1104/NMB-000801

21. Elevations (Show whether DF, KDB, RT, GL, etc.)
3618.3' GL

22. Approximate date work will start*
11/22/2014

23. Estimated duration
45 Days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be attached to this form:

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification
- Such other site specific information and/or plans as may be required by the BLM.

25. Signature Linda Good

Name (Printed/Typed)
Linda Good

Date 7/30/2014

Title
Regulatory Compliance Specialist

Approved by (Signature) Steve Caffey

Name (Printed/Typed)

Date APR 20 2015

Title
FIELD MANAGER

Office
CARLSBAD FIELD OFFICE

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

APPROVAL FOR TWO YEARS

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 2)

*(Instructions on page 2)

Capitan Controlled Water Basin

Ka
04/27/15

Approval Subject to General Requirements
& Special Stipulations Attached

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

APR 28 2015

Devon Energy Production Company, L.P., Taylor Draw 7 Fed/3H

HOBBS OCD

APR 27 2015

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1. Geologic Name of Surface Formation: Quaternary

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

a. Fresh Water	300'	
b. Rustler	892'	Barren
c. Top of Salt	955'	Barren
d. Base of Salt	2484'	Barren
e. Top of Capitan	2963'	Oil / Gas
f. Base of Capitan	6060'	Oil / Gas
g. Delaware	5374'	Oil / Gas
h. Bone Spring Lime	6980'	Oil / Gas
i. 1 st Bone Spring SS	8339'	Oil / Gas
Total Depths	8294' TVD	12913' MD

3. Pressure Control Equipment:

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

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

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

See
C6A

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

Auxiliary Well Control and Monitoring Equipment:

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

4. Casing Program:

See
C6A

Hole Size	Hole Interval	Casing OD	Casing Interval	Weight (lb/ft)	Collar	Grade	Collapse Design Factor	Burst Design Factor	Tension Design Factor
17-1/2"	0 - 900'	13-3/8"	0 - 900'	48	STC	H-40	1.91	4.30	12.52
12-1/4"	900-4450'	9-5/8"	0-4450'	36	BTC	HCK-55	1.65	1.71	5.20
8-3/4"	4450-12915'	5-1/2"	0-12915'	17	BTC	P-110	1.86	2.65	3.98

Casing Notes:

- All casing is new and API approved

Maximum Lateral TVD: 8399'

5. **Proposed mud Circulations System:**

See
COA

Depth	Mud Weight	Viscosity	Fluid Loss	Type System
0-900' ⁹⁷⁰	8.4-9.0	30-34	N/C	FW
900-4450'	10.0-10.2	28-32	N/C	Brine
4450-12915'	8.6-9.0	28-32	N/C	FW

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

6. **Cementing Table:**

See
COA

String	Number of sx	Weight lbs/gal	Water Volume g/sx	Yield cf/sx	Stage; Lead/Tail	Slurry Description
Surface	260	13.5	9.14	1.73	Lead	Class C Cement + 1% bwoc Calcium Chloride + 0.125 lbs/sack Cello Flake + 4% bwoc Bentonite + 81.1% Fresh Water
	300	14.8	6.35	1.35	Tail	Class C Cement + 2% bwoc Calcium Chloride + 0.125 lbs/sack Cello Flake + 56.3% Fresh Water
Intermediate	1095	12.80	8.20	1.65	Lead	(60:40) Poz (Fly Ash):Class C Cement + 5% bwow Sodium Chloride + 0.1% bwoc R-3 + 0.125 lbs/sack Cello Flake + 3 lbs/sack LCM-1 + 0.25% bwoc FL-52 + 1% bwoc Sodium Metasilicate + 83.4% Fresh Water
	400	13.8	6.42	1.38	Tail	(60:40) Poz (Fly Ash):Class C Cement + 5% bwow Sodium Chloride + 0.125 lbs/sack Cello Flake + 0.5% bwoc Sodium Metasilicate + 0.5% bwoc BA-10A + 4% bwoc MPA-5 + 65.3% Fresh Water
Production Single Stage	270	11.8	13.16	2.30	1 st Lead	(50:50) Poz (Fly Ash):Class H Cement + 0.5% bwoc FL-52 + 0.3% bwoc ASA-301 + 10% bwoc Bentonite + 0.35% bwoc R-21 + 130.7% Fresh Water
	225	12.5	11.01	2.01	2 nd Lead	(35:65) Poz (Fly Ash):Class H Cement + 3% bwow Sodium Chloride + 0.2% bwoc R-3 + 0.125 lbs/sack Cello Flake + 0.7% bwoc FL-52 + 0.3% bwoc ASA-301 + 6% bwoc Bentonite + 105.5% Fresh Water
	1365	14.20	5.77	1.28	Tail	(50:50) Poz (Fly Ash):Class H Cement + 5% bwow Sodium Chloride + 0.3% bwoc CD-32 + 0.5% bwoc FL-25 + 0.4% bwoc FL-52 + 0.5% bwoc Sodium Metasilicate + 57.3% Fresh Water
Production Two Stage	975	12.50	11.01	2.01	Lead	(35:65) Poz (Fly Ash):Class H Cement + 3% bwow Sodium Chloride + 0.2% bwoc R-3 + 0.125 lbs/sack Cello Flake + 0.7% bwoc FL-52 + 0.3% bwoc ASA-301 + 6% bwoc Bentonite + 105.5% Fresh Water
	1365	14.20	5.77	1.28	Tail	(50:50) Poz (Fly Ash):Class H Cement + 5% bwow Sodium Chloride + 0.3% bwoc CD-32 + 0.5% bwoc FL-25 + 0.4% bwoc FL-52 + 0.5% bwoc Sodium Metasilicate + 57.3% Fresh Water
	DVT @ 5000'					
	225	13.80	6.40	1.37	Tail	(60:40) Poz (Fly Ash):Class C Cement + 5% bwow Sodium Chloride + 0.125 lbs/sack Cello Flake + 0.5% bwoc BA-10A + 4% bwoc MPA-5 + 65.1% Fresh Water

See
COA

TOC for all Strings:

Surface	@	0'	
Intermediate	@	0'	
Production	@	3950'	50' above Capitan Reef <u>See COA</u>

Notes:

- Cement volumes Surface 75%, Intermediate 75%, Production based on at least 25% excess
- Actual cement volumes will be adjusted based on fluid caliper and caliper log data

7. Logging, Coring, and Testing Program:

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

8. Potential Hazards:

- No abnormal pressures or temperatures are expected. There is no known presence of H₂S in this area, and none is anticipated to be encountered. If H₂S is encountered the operator will comply with the provisions of Onshore Oil and Gas Order No. 6. No lost circulation is expected to occur. All personnel will be familiar with all aspects of safe operation being used to drill this well. Estimated BHP: 3732 psi, and estimated BHT: 141 degrees.
- Hydrogen Sulfide detection equipment will be in operation after drilling out the surface casing shoe until the production string is cemented. Breathing equipment will be on location upon drilling the surface casing shoe until total depth is reached.

9. Anticipated Starting Date and Duration of Operations:

- Road and location construction will begin after the BLM has approved the APD. Anticipated spud date will be as soon after BLM approval and as soon as a rig will be available. Move in operations and drilling is expected to take 20 days. If production casing is run then an additional 30 days will be needed to complete well and construct surface facilities and/or lay flow lines in order to place well on production.

devon



Azimuths to Grid North
True North: -0.29°
Magnetic North: 7.06°

Magnetic Field
Strength: 48604.3snT
Dip Angle: 60.52°
Date: 6/25/2014
Model: IGRF200510

PATHFINDER

A Schlumberger Company

Project: Lea County (NAD83)
Site: Taylor Draw "7" Fed 3H
Well: Taylor Draw 7 Fed 3H
Original Hole
Design #1

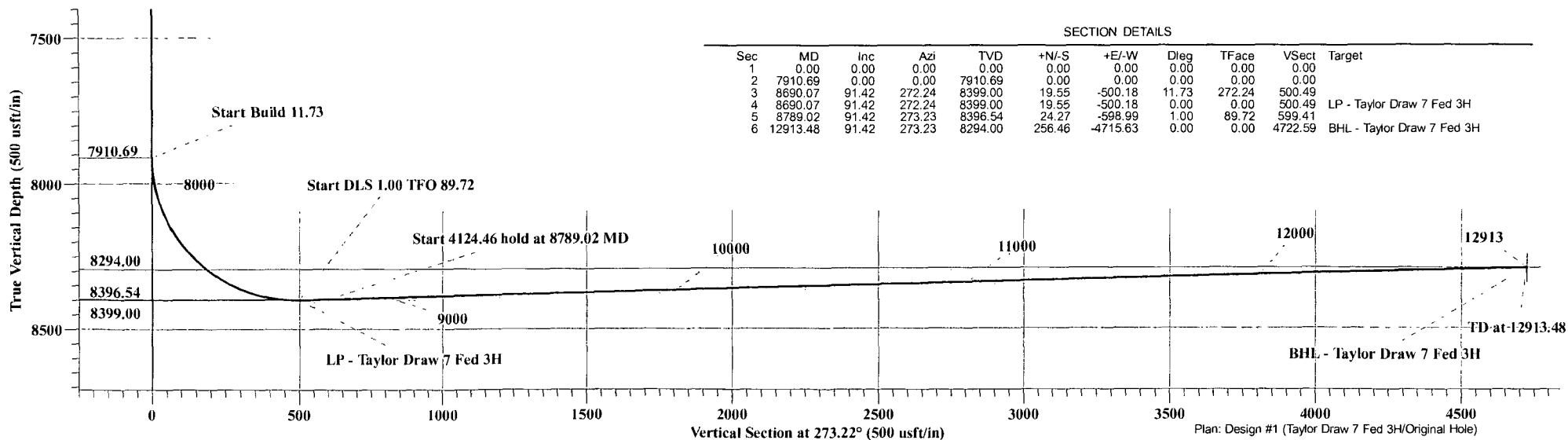
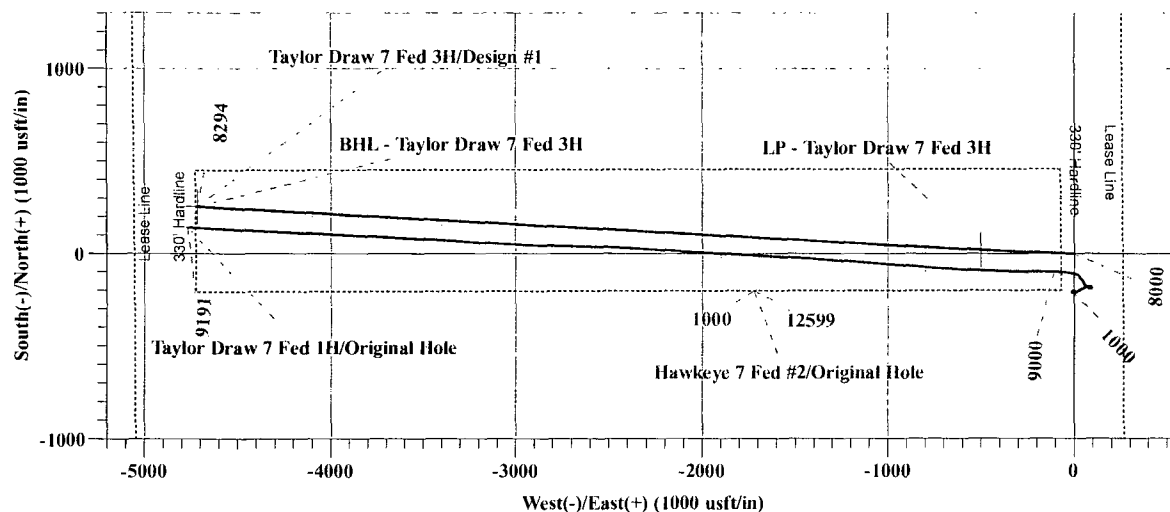
US State Plane 1983
New Mexico Eastern Zone

WELL DETAILS: Taylor Draw 7 Fed 3H

+N/-S	+E/-W	GL +26' Elevation @ 3659.00usft (Original Well Elev)	3633.00
North	East	North	Longitude
0.00	0.00	608919.68	706105.80
		32° 40' 22.162 N	103° 47' 52.290 W

LEGEND

- Taylor Draw 7 Fed 1H, Original Hole, Original Hole V0
- Hawkeye 7 Fed #2, Original Hole, Original Hole V0
- Design #1



Devon Energy, Inc.

Lea County (NAD83)

Taylor Draw "7" Fed 3H

Taylor Draw 7 Fed 3H

Original Hole

Plan: Design #1

Pathfinder Survey Report

29 July, 2014

Pathfinder - A Schlumberger Company

Pathfinder Survey Report

Company:	Devon Energy, Inc.	Local Co-ordinate Reference:	Well Taylor Draw 7 Fed 3H
Project:	Lea County (NAD83)	TVD Reference:	GL +26' Elevation @ 3659.00usft (Original Well Elev)
Site:	Taylor Draw "7" Fed 3H	MD Reference:	GL +26' Elevation @ 3659.00usft (Original Well Elev)
Well:	Taylor Draw 7 Fed 3H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Design #1	Database:	EDM 5000.1 Single User Db

Project		Lea County (NAD83)	
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site		Taylor Draw "7" Fed 3H					
Site Position:		Northing:	608,919.68	usft	Latitude:	32° 40' 22.162 N	
From:	Map	Easting:	706,105.80	usft	Longitude:	103° 47' 52.290 W	
Position Uncertainty:		0.00	usft	Slot Radius:	13-3/16	"	
					Grid Convergence:	0.29	°

Well	Taylor Draw 7 Fed 3H					
Well Position	+N/-S	0.00 usft	Northing:	608,919.68 usft	Latitude:	32° 40' 22.162 N
	+E/-W	0.00 usft	Easting:	706,105.80 usft	Longitude:	103° 47' 52.290 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	3,659.00 usft	Ground Level:	3,633.00 usft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	6/25/2014	7.35	60.52	48,604

Design:	Design #1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	273.22

Survey Tool/Program		Date		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	12,915.48	Design #1 (Original Hole)	Pathfinder	Pathfinder MWD

Pathfinder - A Schlumberger Company

Pathfinder Survey Report

Company:	Devon Energy, Inc.	Local Co-ordinate Reference:	Well Taylor Draw 7 Fed-3H
Project:	Lea County (NAD83)	TVD Reference:	GL +26' Elevation @ 3659.00usft (Original Well Elev)
Site:	Taylor Draw "7" Fed 3H	MD Reference:	GL +26' Elevation @ 3659.00usft (Original Well Elev)
Well:	Taylor Draw 7 Fed 3H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Design #1	Database:	EDM 5000.1 Single User Db

Planned Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	Northing (usft)	Easting (usft)	DLeg (°/100usft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	608,919.68	706,105.80	0.00	
100.00	0.00	0.00	100.00	0.00	0.00	0.00	608,919.68	706,105.80	0.00	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	608,919.68	706,105.80	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	608,919.68	706,105.80	0.00	
400.00	0.00	0.00	400.00	0.00	0.00	0.00	608,919.68	706,105.80	0.00	
500.00	0.00	0.00	500.00	0.00	0.00	0.00	608,919.68	706,105.80	0.00	
600.00	0.00	0.00	600.00	0.00	0.00	0.00	608,919.68	706,105.80	0.00	
700.00	0.00	0.00	700.00	0.00	0.00	0.00	608,919.68	706,105.80	0.00	
800.00	0.00	0.00	800.00	0.00	0.00	0.00	608,919.68	706,105.80	0.00	
900.00	0.00	0.00	900.00	0.00	0.00	0.00	608,919.68	706,105.80	0.00	
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	608,919.68	706,105.80	0.00	
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	608,919.68	706,105.80	0.00	
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	608,919.68	706,105.80	0.00	
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	608,919.68	706,105.80	0.00	
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	608,919.68	706,105.80	0.00	
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	608,919.68	706,105.80	0.00	
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	608,919.68	706,105.80	0.00	
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	608,919.68	706,105.80	0.00	
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	608,919.68	706,105.80	0.00	
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	608,919.68	706,105.80	0.00	
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	608,919.68	706,105.80	0.00	
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	608,919.68	706,105.80	0.00	
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	608,919.68	706,105.80	0.00	
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	608,919.68	706,105.80	0.00	
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	608,919.68	706,105.80	0.00	
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	608,919.68	706,105.80	0.00	
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	608,919.68	706,105.80	0.00	

Pathfinder - A Schlumberger Company

Pathfinder Survey Report

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Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Design #1	Database:	EDM 5000.1 Single User Db

Planned Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	Northing (usft)	Easting (usft)	DLeg (°/100usft)	
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	608,919.68	706,105.80	0.00	
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	608,919.68	706,105.80	0.00	
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	608,919.68	706,105.80	0.00	
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	608,919.68	706,105.80	0.00	
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	608,919.68	706,105.80	0.00	
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	608,919.68	706,105.80	0.00	
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	608,919.68	706,105.80	0.00	
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	608,919.68	706,105.80	0.00	
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	608,919.68	706,105.80	0.00	
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	608,919.68	706,105.80	0.00	
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	608,919.68	706,105.80	0.00	
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	608,919.68	706,105.80	0.00	
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	608,919.68	706,105.80	0.00	
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	608,919.68	706,105.80	0.00	
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	608,919.68	706,105.80	0.00	
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	608,919.68	706,105.80	0.00	
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	608,919.68	706,105.80	0.00	
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	608,919.68	706,105.80	0.00	
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	608,919.68	706,105.80	0.00	
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	608,919.68	706,105.80	0.00	
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	608,919.68	706,105.80	0.00	
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	608,919.68	706,105.80	0.00	
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	608,919.68	706,105.80	0.00	
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	608,919.68	706,105.80	0.00	
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	608,919.68	706,105.80	0.00	
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	608,919.68	706,105.80	0.00	
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	608,919.68	706,105.80	0.00	

Pathfinder - A Schlumberger Company

Pathfinder Survey Report

Company:	Devon Energy, Inc.	Local Co-ordinate Reference:	Well Taylor Draw 7 Fed 3H
Project:	Lea County (NAD83)	TVD Reference:	GL +26' Elevation @ 3659.00usft (Original Well Elev)
Site:	Taylor Draw "7" Fed 3H	MD Reference:	GL +26' Elevation @ 3659.00usft (Original Well Elev)
Well:	Taylor Draw 7 Fed 3H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Design #1	Database:	EDM 5000.1 Single User Db

Planned Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V: Sec (usft)	Northings (usft)	Easting (usft)	DLeg (°/100usft)		
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	608,919.68	706,105.80	0.00		
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	608,919.68	706,105.80	0.00		
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	608,919.68	706,105.80	0.00		
5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	608,919.68	706,105.80	0.00		
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	608,919.68	706,105.80	0.00		
5,900.00	0.00	0.00	5,900.00	0.00	0.00	0.00	608,919.68	706,105.80	0.00		
6,000.00	0.00	0.00	6,000.00	0.00	0.00	0.00	608,919.68	706,105.80	0.00		
6,100.00	0.00	0.00	6,100.00	0.00	0.00	0.00	608,919.68	706,105.80	0.00		
6,200.00	0.00	0.00	6,200.00	0.00	0.00	0.00	608,919.68	706,105.80	0.00		
6,300.00	0.00	0.00	6,300.00	0.00	0.00	0.00	608,919.68	706,105.80	0.00		
6,400.00	0.00	0.00	6,400.00	0.00	0.00	0.00	608,919.68	706,105.80	0.00		
6,500.00	0.00	0.00	6,500.00	0.00	0.00	0.00	608,919.68	706,105.80	0.00		
6,600.00	0.00	0.00	6,600.00	0.00	0.00	0.00	608,919.68	706,105.80	0.00		
6,700.00	0.00	0.00	6,700.00	0.00	0.00	0.00	608,919.68	706,105.80	0.00		
6,800.00	0.00	0.00	6,800.00	0.00	0.00	0.00	608,919.68	706,105.80	0.00		
6,900.00	0.00	0.00	6,900.00	0.00	0.00	0.00	608,919.68	706,105.80	0.00		
7,000.00	0.00	0.00	7,000.00	0.00	0.00	0.00	608,919.68	706,105.80	0.00		
7,100.00	0.00	0.00	7,100.00	0.00	0.00	0.00	608,919.68	706,105.80	0.00		
7,200.00	0.00	0.00	7,200.00	0.00	0.00	0.00	608,919.68	706,105.80	0.00		
7,300.00	0.00	0.00	7,300.00	0.00	0.00	0.00	608,919.68	706,105.80	0.00		
7,400.00	0.00	0.00	7,400.00	0.00	0.00	0.00	608,919.68	706,105.80	0.00		
7,500.00	0.00	0.00	7,500.00	0.00	0.00	0.00	608,919.68	706,105.80	0.00		
7,600.00	0.00	0.00	7,600.00	0.00	0.00	0.00	608,919.68	706,105.80	0.00		
7,700.00	0.00	0.00	7,700.00	0.00	0.00	0.00	608,919.68	706,105.80	0.00		
7,800.00	0.00	0.00	7,800.00	0.00	0.00	0.00	608,919.68	706,105.80	0.00		
7,900.00	0.00	0.00	7,900.00	0.00	0.00	0.00	608,919.68	706,105.80	0.00		
7,910.69	0.00	0.00	7,910.69	0.00	0.00	0.00	608,919.68	706,105.80	0.00		

Pathfinder - A Schlumberger Company

Pathfinder Survey Report

Company:	Devon Energy, Inc.	Local Co-ordinate Reference:	Well Taylor Draw 7 Fed 3H
Project:	Lea County (NAD83)	TVD Reference:	GL +26' Elevation @ 3659.00usft (Original Well Elev)
Site:	Taylor Draw "7" Fed 3H	MD Reference:	GL +26' Elevation @ 3659.00usft (Original Well Elev)
Well:	Taylor Draw 7 Fed 3H	North Reference:	Grid
Wellbore:	Original Hole	Survey/Calculation Method:	Minimum Curvature
Design:	Design #1	Database:	EDM 5000.1 Single User Db

Planned Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	Northing (usft)	Easting (usft)	DLeg (°/100usft)	
7,925.00	1.68	272.24	7,925.00	0.01	-0.21	0.21	608,919.69	706,105.59	11.73	
7,950.00	4.61	272.24	7,949.96	0.06	-1.58	1.58	608,919.74	706,104.22	11.73	
7,975.00	7.54	272.24	7,974.81	0.17	-4.22	4.23	608,919.85	706,101.58	11.73	
8,000.00	10.48	272.24	7,999.50	0.32	-8.14	8.14	608,920.00	706,097.66	11.73	
8,025.00	13.41	272.24	8,023.96	0.52	-13.30	13.31	608,920.20	706,092.50	11.73	
8,050.00	16.34	272.24	8,048.12	0.77	-19.72	19.73	608,920.45	706,086.08	11.73	
8,075.00	19.27	272.24	8,071.92	1.07	-27.36	27.37	608,920.75	706,078.44	11.73	
8,100.00	22.21	272.24	8,095.30	1.41	-36.20	36.22	608,921.10	706,069.60	11.73	
8,125.00	25.14	272.24	8,118.19	1.81	-46.23	46.26	608,921.49	706,059.57	11.73	
8,150.00	28.07	272.24	8,140.54	2.24	-57.42	57.45	608,921.93	706,048.38	11.73	
8,175.00	31.00	272.24	8,162.29	2.73	-69.73	69.77	608,922.41	706,036.07	11.73	
8,200.00	33.94	272.24	8,183.38	3.25	-83.14	83.19	608,922.93	706,022.66	11.73	
8,225.00	36.87	272.24	8,203.75	3.82	-97.61	97.67	608,923.50	706,008.19	11.73	
8,250.00	39.80	272.24	8,223.36	4.42	-113.10	113.17	608,924.10	705,992.70	11.73	
8,275.00	42.73	272.24	8,242.15	5.06	-129.58	129.66	608,924.75	705,976.22	11.73	
8,300.00	45.67	272.24	8,260.07	5.75	-146.99	147.08	608,925.43	705,958.81	11.73	
8,325.00	48.60	272.24	8,277.08	6.46	-165.30	165.40	608,926.14	705,940.50	11.73	
8,350.00	51.53	272.24	8,293.12	7.21	-184.45	184.56	608,926.89	705,921.35	11.73	
8,375.00	54.46	272.24	8,308.17	7.99	-204.40	204.52	608,927.67	705,901.40	11.73	
8,400.00	57.40	272.24	8,322.17	8.80	-225.09	225.23	608,928.48	705,880.71	11.73	
8,425.00	60.33	272.24	8,335.10	9.63	-246.47	246.62	608,929.32	705,859.33	11.73	
8,450.00	63.26	272.24	8,346.91	10.49	-268.48	268.64	608,930.18	705,837.32	11.73	
8,475.00	66.19	272.24	8,357.59	11.38	-291.07	291.25	608,931.06	705,814.73	11.73	
8,500.00	69.13	272.24	8,367.09	12.28	-314.17	314.36	608,931.96	705,791.63	11.73	
8,525.00	72.06	272.24	8,375.40	13.20	-337.73	337.94	608,932.88	705,768.07	11.73	
8,550.00	74.99	272.24	8,382.48	14.14	-361.68	361.90	608,933.82	705,744.12	11.73	
8,575.00	77.92	272.24	8,388.34	15.09	-385.96	386.20	608,934.77	705,719.84	11.73	

Pathfinder - A Schlumberger Company

Pathfinder Survey Report

Company:	Devon Energy, Inc.	Local Co-ordinate Reference:	Well Taylor Draw 7 Fed 3H
Project:	Lea County (NAD83)	TVD Reference:	GL +26' Elevation @ 3659.00usft (Original Well Elev)
Site:	Taylor Draw "7" Fed 3H	MD Reference:	GL +26' Elevation @ 3659.00usft (Original Well Elev)
Well:	Taylor Draw 7 Fed 3H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Design #1	Database:	EDM 5000.1 Single User Db

Planned Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	Northing (usft)	Easting (usft)	DLeg (%/100usft)
8,600.00	80.86	272.24	8,392.94	16.05	-410.52	410.77	608,935.73	705,695.28	11.73
8,625.00	83.79	272.24	8,396.28	17.01	-435.27	435.54	608,936.70	705,670.53	11.73
8,650.00	86.72	272.24	8,398.35	17.99	-460.16	460.45	608,937.67	705,645.64	11.73
8,675.00	89.65	272.24	8,399.14	18.96	-485.13	485.43	608,938.65	705,620.67	11.73
8,690.07	91.42	272.24	8,399.00	19.55	-500.18	500.49	608,939.23	705,605.62	11.73
8,700.00	91.42	272.34	8,398.75	19.95	-510.10	510.42	608,939.63	705,595.70	1.00
8,789.02	91.42	273.23	8,396.54	24.27	-598.99	599.41	608,943.95	705,506.81	1.00
8,800.00	91.42	273.23	8,396.27	24.89	-609.95	610.39	608,944.57	705,495.85	0.00
8,900.00	91.42	273.23	8,393.78	30.52	-709.76	710.35	608,950.20	705,396.04	0.00
9,000.00	91.42	273.23	8,391.30	36.15	-809.57	810.32	608,955.83	705,296.23	0.00
9,100.00	91.42	273.23	8,388.81	41.77	-909.38	910.29	608,961.46	705,196.42	0.00
9,200.00	91.42	273.23	8,386.33	47.40	-1,009.19	1,010.26	608,967.09	705,096.61	0.00
9,300.00	91.42	273.23	8,383.84	53.03	-1,109.00	1,110.23	608,972.72	704,996.80	0.00
9,400.00	91.42	273.23	8,381.35	58.66	-1,208.81	1,210.20	608,978.35	704,896.99	0.00
9,500.00	91.42	273.23	8,378.87	64.29	-1,308.62	1,310.17	608,983.98	704,797.18	0.00
9,600.00	91.42	273.23	8,376.38	69.92	-1,408.43	1,410.14	608,989.61	704,697.37	0.00
9,700.00	91.42	273.23	8,373.89	75.55	-1,508.24	1,510.11	608,995.24	704,597.56	0.00
9,800.00	91.42	273.23	8,371.41	81.18	-1,608.06	1,610.08	609,000.86	704,497.75	0.00
9,900.00	91.42	273.23	8,368.92	86.81	-1,707.87	1,710.05	609,006.49	704,397.93	0.00
10,000.00	91.42	273.23	8,366.44	92.44	-1,807.68	1,810.01	609,012.12	704,298.12	0.00
10,100.00	91.42	273.23	8,363.95	98.07	-1,907.49	1,909.98	609,017.75	704,198.31	0.00
10,200.00	91.42	273.23	8,361.46	103.70	-2,007.30	2,009.95	609,023.38	704,098.50	0.00
10,300.00	91.42	273.23	8,358.98	109.33	-2,107.11	2,109.92	609,029.01	703,998.69	0.00
10,400.00	91.42	273.23	8,356.49	114.96	-2,206.92	2,209.89	609,034.64	703,898.88	0.00
10,500.00	91.42	273.23	8,354.00	120.59	-2,306.73	2,309.86	609,040.27	703,799.07	0.00
10,600.00	91.42	273.23	8,351.52	126.22	-2,406.54	2,409.83	609,045.90	703,699.26	0.00
10,700.00	91.42	273.23	8,349.03	131.85	-2,506.35	2,509.80	609,051.53	703,599.45	0.00

Pathfinder - A Schlumberger Company

Pathfinder Survey Report

Company:	Devon Energy, Inc.	Local Co-ordinate Reference:	Well Taylor Draw 7 Fed 3H
Project:	Lea County (NAD83)	TVD Reference:	GL +26' Elevation @ 3659.00usft (Original Well Elev)
Site:	Taylor Draw "7" Fed 3H	MD Reference:	GL +26' Elevation @ 3659.00usft (Original Well Elev)
Well:	Taylor Draw 7 Fed 3H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Design #1	Database:	EDM 5000.1 Single User Db

Planned Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V: Sec (usft)	Northing (usft)	Easting (usft)	DLeg (°/100usft)	
10,800.00	91.42	273.23	8,346.55	137.48	-2,606.16	2,609.77	609,057.16	703,499.64	0.00	
10,900.00	91.42	273.23	8,344.06	143.11	-2,705.97	2,709.74	609,062.79	703,399.83	0.00	
11,000.00	91.42	273.23	8,341.57	148.74	-2,805.78	2,809.71	609,068.42	703,300.02	0.00	
11,100.00	91.42	273.23	8,339.09	154.37	-2,905.59	2,909.67	609,074.05	703,200.21	0.00	
11,200.00	91.42	273.23	8,336.60	160.00	-3,005.40	3,009.64	609,079.68	703,100.40	0.00	
11,300.00	91.42	273.23	8,334.11	165.63	-3,105.21	3,109.61	609,085.31	703,000.59	0.00	
11,400.00	91.42	273.23	8,331.63	171.25	-3,205.02	3,209.58	609,090.94	702,900.78	0.00	
11,500.00	91.42	273.23	8,329.14	176.88	-3,304.83	3,309.55	609,096.57	702,800.97	0.00	
11,600.00	91.42	273.23	8,326.66	182.51	-3,404.64	3,409.52	609,102.20	702,701.16	0.00	
11,700.00	91.42	273.23	8,324.17	188.14	-3,504.45	3,509.49	609,107.83	702,601.35	0.00	
11,800.00	91.42	273.23	8,321.68	193.77	-3,604.26	3,609.46	609,113.46	702,501.54	0.00	
11,900.00	91.42	273.23	8,319.20	199.40	-3,704.07	3,709.43	609,119.09	702,401.73	0.00	
12,000.00	91.42	273.23	8,316.71	205.03	-3,803.89	3,809.40	609,124.72	702,301.92	0.00	
12,100.00	91.42	273.23	8,314.22	210.66	-3,903.70	3,909.37	609,130.34	702,202.10	0.00	
12,200.00	91.42	273.23	8,311.74	216.29	-4,003.51	4,009.33	609,135.97	702,102.29	0.00	
12,300.00	91.42	273.23	8,309.25	221.92	-4,103.32	4,109.30	609,141.60	702,002.48	0.00	
12,400.00	91.42	273.23	8,306.77	227.55	-4,203.13	4,209.27	609,147.23	701,902.67	0.00	
12,500.00	91.42	273.23	8,304.28	233.18	-4,302.94	4,309.24	609,152.86	701,802.86	0.00	
12,600.00	91.42	273.23	8,301.79	238.81	-4,402.75	4,409.21	609,158.49	701,703.05	0.00	
12,700.00	91.42	273.23	8,299.31	244.44	-4,502.56	4,509.18	609,164.12	701,603.24	0.00	
12,800.00	91.42	273.23	8,296.82	250.07	-4,602.37	4,609.15	609,169.75	701,503.43	0.00	
12,900.00	91.42	273.23	8,294.34	255.70	-4,702.18	4,709.12	609,175.38	701,403.62	0.00	
12,913.48	91.42	273.23	8,294.00	256.46	-4,715.63	4,722.59	609,176.14	701,390.17	0.00	

Checked By: _____ Approved By: _____ Date: _____

Devon Energy, Inc.

Lea County (NAD83)
Taylor Draw "7" Fed 3H
Taylor Draw 7 Fed 3H

Original Hole
Design #1

Anticollision Report

29 July, 2014

Pathfinder - A Schlumberger Company

Anticollision Report

Company:	Devon Energy, Inc.	Local Co-ordinate Reference:	Well Taylor Draw 7 Fed 3H
Project:	Lea County (NAD83)	TVD Reference:	GL +26' Elevation @ 3659.00usft (Original Well Elev)
Reference Site:	Taylor Draw "7" Fed 3H	MD Reference:	GL +26' Elevation @ 3659.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Taylor Draw 7 Fed 3H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	Original Hole	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Reference	Design #1		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100.00usft	Error Model:	Systematic Ellipse
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 2,000.00 usft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program		Date	7/29/2014		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	12,915.48	Design #1 (Original Hole)	Pathfinder	Pathfinder MWD	

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						
Hawkeye 7 Fed #2						
Hawkeye 7 Fed #2 - Original Hole - Original Hole	9,894.58	8,350.06	289.45	225.14	4.501	CC, ES
Hawkeye 7 Fed #2 - Original Hole - Original Hole	9,900.00	8,349.92	289.50	225.16	4.500	SF
Taylor Draw 7 Fed 1H						
Taylor Draw 7 Fed 1H - Original Hole - Original Hole	8,000.00	7,993.63	136.43	105.93	4.473	CC, ES, SF

Offset Design		Hawkeye 7 Fed #2 - Hawkeye 7 Fed #2 - Original Hole - Original Hole										Offset Site Error:		0.00 usft
Survey Program		12580-PM										Offset Well Error:		0.00 usft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre N-S	Offset Wellbore Centre E-W	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
0.00	0.00	0.00	0.00	0.00	0.00	-96.72	-202.48	-1,718.76	1,730.75					
100.00	100.00	91.00	81.00	0.13	0.42	-96.72	-202.48	-1,718.76	1,730.65	1,730.09	0.55	3,131.850		
200.00	200.00	181.00	181.00	0.30	0.95	-96.72	-202.48	-1,718.76	1,730.65	1,729.40	1.25	1,384.633		
300.00	300.00	281.00	281.00	0.48	1.47	-96.72	-202.48	-1,718.76	1,730.65	1,728.70	1.95	888.790		
400.00	400.00	381.00	381.00	0.65	1.99	-96.72	-202.48	-1,718.76	1,730.65	1,728.00	2.64	654.434		
500.00	500.00	481.00	481.00	0.83	2.51	-96.72	-202.48	-1,718.76	1,730.65	1,727.30	3.34	517.879		
600.00	600.00	581.00	581.00	1.00	3.04	-96.72	-202.48	-1,718.76	1,730.65	1,726.51	4.04	428.474		
700.00	700.00	681.00	681.00	1.18	3.56	-96.72	-202.48	-1,718.76	1,730.65	1,725.91	4.74	365.393		
800.00	800.00	781.00	781.00	1.35	4.08	-96.72	-202.48	-1,718.76	1,730.65	1,725.21	5.43	318.503		
900.00	900.00	881.00	881.00	1.53	4.61	-96.72	-202.48	-1,718.76	1,730.65	1,724.51	6.13	282.278		
1,000.00	1,000.00	981.00	981.00	1.70	5.13	-96.72	-202.48	-1,718.76	1,730.65	1,723.82	6.83	253.452		
1,100.00	1,100.00	1,081.00	1,081.00	1.87	5.65	-96.72	-202.48	-1,718.76	1,730.65	1,723.12	7.53	229.968		
1,200.00	1,200.00	1,181.00	1,181.00	2.05	6.17	-96.72	-202.48	-1,718.76	1,730.65	1,722.42	8.22	210.467		
1,300.00	1,300.00	1,281.00	1,281.00	2.22	6.70	-96.72	-202.48	-1,718.76	1,730.65	1,721.73	8.92	194.015		
1,400.00	1,400.00	1,381.00	1,381.00	2.40	7.22	-96.72	-202.48	-1,718.76	1,730.65	1,721.03	9.62	179.948		
1,500.00	1,500.00	1,481.00	1,481.00	2.57	7.74	-96.72	-202.48	-1,718.76	1,730.65	1,720.33	10.31	167.783		
1,600.00	1,600.00	1,581.00	1,581.00	2.75	8.26	-96.72	-202.48	-1,718.76	1,730.65	1,719.63	11.01	157.159		
1,700.00	1,700.00	1,681.00	1,681.00	2.92	8.79	-96.72	-202.48	-1,718.76	1,730.65	1,718.94	11.71	147.800		
1,800.00	1,800.00	1,781.00	1,781.00	3.10	9.31	-96.72	-202.48	-1,718.76	1,730.65	1,718.24	12.41	139.493		
1,900.00	1,900.00	1,881.00	1,881.00	3.27	9.83	-96.72	-202.48	-1,718.76	1,730.65	1,717.54	13.10	132.070		
2,000.00	2,000.00	1,981.00	1,981.00	3.45	10.36	-96.72	-202.48	-1,718.76	1,730.65	1,716.84	13.80	125.397		

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

Pathfinder - A Schlumberger Company

Anticollision Report

Company:	Devon Energy, Inc.	Local Co-ordinate Reference:	Well Taylor Draw 7 Fed 3H
Project:	Lea County (NAD83)	TVD Reference:	GL +26' Elevation @ 3659.00usft (Original Well Elev)
Reference Site:	Taylor Draw "7" Fed 3H	MD Reference:	GL +26' Elevation @ 3659.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Taylor Draw 7 Fed 3H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore:	Original Hole	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design Hawkeye 7 Fed #2 - Hawkeye 7 Fed #2 - Original Hole - Original Hole													Offset Site Error:
Survey Program: 12580-PM													0.00 usft
Reference	Offset	Semi-Major Axis		Distance		Minimum		Separation		Warning		Offset Well Error:	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre N/S (usft)	Offset Wellbore Centre E/W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
2,100.00	2,100.00	2,081.00	2,081.00	3.62	10.88	-96.72	-202.48	-1,718.76	1,730.65	1,716.15	14.50	119.367	
2,200.00	2,200.00	2,181.00	2,181.00	3.79	11.40	-96.72	-202.48	-1,718.76	1,730.65	1,715.45	15.20	113.889	
2,300.00	2,300.00	2,281.00	2,281.00	3.97	11.92	-96.72	-202.48	-1,718.76	1,730.65	1,714.75	15.89	108.892	
2,400.00	2,400.00	2,381.00	2,381.00	4.14	12.45	-96.72	-202.48	-1,718.76	1,730.65	1,714.06	16.59	104.316	
2,500.00	2,500.00	2,481.00	2,481.00	4.32	12.97	-96.72	-202.48	-1,718.76	1,730.65	1,713.36	17.29	100.108	
2,600.00	2,600.00	2,581.00	2,581.00	4.49	13.49	-96.72	-202.48	-1,718.76	1,730.65	1,712.66	17.99	96.227	
2,700.00	2,700.00	2,681.00	2,681.00	4.67	14.02	-96.72	-202.48	-1,718.76	1,730.65	1,711.96	18.68	92.635	
2,800.00	2,800.00	2,781.00	2,781.00	4.84	14.54	-96.72	-202.48	-1,718.76	1,730.65	1,711.27	19.38	89.302	
2,900.00	2,900.00	2,881.00	2,881.00	5.02	15.06	-96.72	-202.48	-1,718.76	1,730.65	1,710.57	20.08	86.201	
3,000.00	3,000.00	2,981.00	2,981.00	5.19	15.58	-96.72	-202.48	-1,718.76	1,730.65	1,709.87	20.77	83.307	
3,100.00	3,100.00	3,081.00	3,081.00	5.37	16.11	-96.72	-202.48	-1,718.76	1,730.65	1,709.17	21.47	80.602	
3,200.00	3,200.00	3,181.00	3,181.00	5.54	16.63	-96.72	-202.48	-1,718.76	1,730.65	1,708.48	22.17	78.096	
3,300.00	3,300.00	3,281.00	3,281.00	5.71	17.15	-96.72	-202.48	-1,718.76	1,730.65	1,707.78	22.87	75.686	
3,400.00	3,400.00	3,381.00	3,381.00	5.89	17.67	-96.72	-202.48	-1,718.76	1,730.65	1,707.08	23.56	73.446	
3,500.00	3,500.00	3,481.00	3,481.00	6.06	18.20	-96.72	-202.48	-1,718.76	1,730.65	1,706.39	24.26	71.335	
3,600.00	3,600.00	3,581.00	3,581.00	6.24	18.72	-96.72	-202.48	-1,718.76	1,730.65	1,705.69	24.96	69.342	
3,700.00	3,700.00	3,681.00	3,681.00	6.41	19.24	-96.72	-202.48	-1,718.76	1,730.65	1,704.99	25.66	67.457	
3,800.00	3,800.00	3,781.00	3,781.00	6.59	19.77	-96.72	-202.48	-1,718.76	1,730.65	1,704.29	26.35	65.673	
3,900.00	3,900.00	3,881.00	3,881.00	6.76	20.29	-96.72	-202.48	-1,718.76	1,730.65	1,703.60	27.05	63.980	
4,000.00	4,000.00	3,981.00	3,981.00	6.94	20.81	-96.72	-202.48	-1,718.76	1,730.65	1,702.90	27.75	62.372	
4,100.00	4,100.00	4,081.00	4,081.00	7.11	21.33	-96.72	-202.48	-1,718.76	1,730.65	1,702.20	28.44	60.843	
4,200.00	4,200.00	4,181.00	4,181.00	7.29	21.86	-96.72	-202.48	-1,718.76	1,730.65	1,701.50	29.14	59.387	
4,300.00	4,300.00	4,281.00	4,281.00	7.46	22.38	-96.72	-202.48	-1,718.76	1,730.65	1,700.81	29.84	57.999	
4,400.00	4,400.00	4,381.00	4,381.00	7.63	22.90	-96.72	-202.48	-1,718.76	1,730.65	1,700.11	30.54	56.675	
4,500.00	4,500.00	4,481.00	4,481.00	7.81	23.43	-96.72	-202.48	-1,718.76	1,730.65	1,699.41	31.23	55.409	
4,600.00	4,600.00	4,581.00	4,581.00	7.98	23.95	-96.72	-202.48	-1,718.76	1,730.65	1,698.71	31.93	54.199	
4,700.00	4,700.00	4,681.00	4,681.00	8.16	24.47	-96.72	-202.48	-1,718.76	1,730.65	1,698.02	32.63	53.041	
4,800.00	4,800.00	4,781.00	4,781.00	8.33	24.99	-96.72	-202.48	-1,718.76	1,730.65	1,697.32	33.33	51.931	
4,900.00	4,900.00	4,881.00	4,881.00	8.51	25.52	-96.72	-202.48	-1,718.76	1,730.65	1,696.62	34.02	50.867	
5,000.00	5,000.00	4,981.00	4,981.00	8.68	26.04	-96.72	-202.48	-1,718.76	1,730.65	1,695.93	34.72	49.845	
5,100.00	5,100.00	5,081.00	5,081.00	8.86	26.56	-96.72	-202.48	-1,718.76	1,730.65	1,695.23	35.42	48.864	
5,200.00	5,200.00	5,181.00	5,181.00	9.03	27.08	-96.72	-202.48	-1,718.76	1,730.65	1,694.53	36.11	47.921	
5,300.00	5,300.00	5,281.00	5,281.00	9.20	27.61	-96.72	-202.48	-1,718.76	1,730.65	1,693.83	36.81	47.013	
5,400.00	5,400.00	5,381.00	5,381.00	9.38	28.13	-96.72	-202.48	-1,718.76	1,730.65	1,693.14	37.51	46.139	
5,500.00	5,500.00	5,481.00	5,481.00	9.55	28.65	-96.72	-202.48	-1,718.76	1,730.65	1,692.44	38.21	45.297	
5,600.00	5,600.00	5,581.00	5,581.00	9.73	29.18	-96.72	-202.48	-1,718.76	1,730.65	1,691.74	38.90	44.485	
5,700.00	5,700.00	5,681.00	5,681.00	9.90	29.70	-96.72	-202.48	-1,718.76	1,730.65	1,691.04	39.60	43.702	
5,800.00	5,800.00	5,781.00	5,781.00	10.08	30.22	-96.72	-202.48	-1,718.76	1,730.65	1,690.35	40.30	42.945	
5,900.00	5,900.00	5,881.00	5,881.00	10.25	30.74	-96.72	-202.48	-1,718.76	1,730.65	1,689.65	41.00	42.215	
6,000.00	6,000.00	5,981.00	5,981.00	10.43	31.27	-96.72	-202.48	-1,718.76	1,730.65	1,688.95	41.69	41.509	
6,100.00	6,100.00	6,081.00	6,081.00	10.60	31.79	-96.72	-202.48	-1,718.76	1,730.65	1,688.26	42.39	40.826	
6,200.00	6,200.00	6,181.00	6,181.00	10.78	32.31	-96.72	-202.48	-1,718.76	1,730.65	1,687.56	43.09	40.166	
6,300.00	6,300.00	6,281.00	6,281.00	10.95	32.83	-96.72	-202.48	-1,718.76	1,730.65	1,686.86	43.79	39.526	
6,400.00	6,400.00	6,381.00	6,381.00	11.12	33.36	-96.72	-202.48	-1,718.76	1,730.65	1,686.16	44.48	38.906	
6,500.00	6,500.00	6,481.00	6,481.00	11.30	33.88	-96.72	-202.48	-1,718.76	1,730.65	1,685.47	45.18	38.306	
6,600.00	6,600.00	6,581.00	6,581.00	11.47	34.40	-96.72	-202.48	-1,718.76	1,730.65	1,684.77	45.88	37.724	
6,700.00	6,700.00	6,681.00	6,681.00	11.65	34.93	-96.72	-202.48	-1,718.76	1,730.65	1,684.07	46.57	37.159	
6,800.00	6,800.00	6,781.00	6,781.00	11.82	35.45	-96.72	-202.48	-1,718.76	1,730.65	1,683.37	47.27	36.611	
6,900.00	6,900.00	6,881.00	6,881.00	12.00	35.97	-96.72	-202.48	-1,718.76	1,730.65	1,682.68	47.97	36.079	
7,000.00	7,000.00	6,981.00	6,981.00	12.17	36.49	-96.72	-202.48	-1,718.76	1,730.65	1,681.98	48.67	35.562	

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

Pathfinder - A Schlumberger Company

Anticollision Report

Company:	Devon Energy, Inc.	Local Co-ordinate Reference:	Well Taylor Draw 7 Fed 3H
Project:	Lea County (NAD83)	TVD Reference:	GL +26' Elevation @ 3659.00usft (Original Well Elev)
Reference Site:	Taylor Draw "7" Fed 3H	MD Reference:	GL +26' Elevation @ 3659.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Taylor Draw 7 Fed 3H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore:	Original Hole	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design		Hawkeye 7 Fed #2 - Hawkeye 7 Fed #2 - Original Hole - Original Hole										Offset Site Error		0.00 usft
Survey Program: 12580-PM												Offset Well Error		0.00 usft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre N/S (usft)	Offset Wellbore Centre E/W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
7,100.00	7,100.00	7,081.00	7,081.00	12.35	37.02	-96.72	-202.48	-1,718.76	1,730.65	1,681.28	49.36	35.059		
7,200.00	7,200.00	7,181.00	7,181.00	12.52	37.54	-96.72	-202.48	-1,718.76	1,730.65	1,680.58	50.06	34.571		
7,300.00	7,300.00	7,281.00	7,281.00	12.70	38.06	-96.72	-202.48	-1,718.76	1,730.65	1,679.89	50.76	34.096		
7,400.00	7,400.00	7,381.00	7,381.00	12.87	38.59	-96.72	-202.48	-1,718.76	1,730.65	1,679.19	51.46	33.634		
7,500.00	7,500.00	7,481.00	7,481.00	13.04	39.11	-96.72	-202.48	-1,718.76	1,730.65	1,678.49	52.15	33.184		
7,600.00	7,600.00	7,581.00	7,581.00	13.22	39.63	-96.72	-202.48	-1,718.76	1,730.65	1,677.80	52.85	32.746		
7,700.00	7,700.00	7,681.00	7,681.00	13.39	40.15	-96.72	-202.48	-1,718.76	1,730.65	1,677.10	53.55	32.320		
7,800.00	7,800.00	7,781.00	7,781.00	13.57	40.68	-96.72	-202.48	-1,718.76	1,730.65	1,676.40	54.24	31.904		
7,900.00	7,900.00	7,881.00	7,881.00	13.74	41.20	-96.72	-202.48	-1,718.76	1,730.65	1,675.70	54.94	31.500		
8,000.00	7,999.50	7,980.50	7,980.50	13.92	41.72	-9.15	-202.48	-1,718.76	1,722.60	1,667.69	54.91	31.372		
8,100.00	8,095.30	8,076.30	8,076.30	14.09	42.22	-9.87	-202.48	-1,718.76	1,694.87	1,641.79	53.08	31.932		
8,200.00	8,183.38	8,164.38	8,164.38	14.27	42.68	-11.29	-202.48	-1,718.76	1,648.51	1,598.89	49.62	33.223		
8,300.00	8,260.07	8,241.07	8,241.07	14.47	43.08	-13.86	-202.48	-1,718.76	1,585.50	1,540.46	45.04	35.202		
8,400.00	8,322.17	8,303.17	8,303.17	14.68	43.41	-18.62	-202.48	-1,718.76	1,508.54	1,467.96	40.58	37.171		
8,500.00	8,367.09	8,348.09	8,348.09	14.92	43.64	-28.46	-202.48	-1,718.76	1,420.91	1,381.26	39.66	35.830		
8,600.00	8,392.94	8,373.94	8,373.94	15.19	43.78	-52.55	-202.48	-1,718.76	1,326.37	1,276.62	49.75	26.661		
8,700.00	8,398.75	8,379.75	8,379.75	15.49	43.81	-96.24	-202.48	-1,718.76	1,228.95	1,169.93	59.02	20.823		
8,800.00	8,396.27	8,377.27	8,377.27	15.82	43.79	-95.37	-202.48	-1,718.76	1,131.88	1,072.48	59.40	19.054		
8,900.00	8,393.78	8,374.78	8,374.78	16.17	43.78	-94.88	-202.48	-1,718.76	1,035.55	975.77	59.79	17.324		
9,000.00	8,391.30	8,372.30	8,372.30	16.54	43.77	-94.39	-202.48	-1,718.76	939.98	879.81	60.17	15.622		
9,100.00	8,388.81	8,369.81	8,369.81	16.94	43.75	-93.90	-202.48	-1,718.76	845.43	784.85	60.58	13.956		
9,200.00	8,386.33	8,367.33	8,367.33	17.35	43.74	-93.41	-202.48	-1,718.76	752.28	691.28	61.01	12.331		
9,300.00	8,383.84	8,364.84	8,364.84	17.78	43.73	-92.92	-202.48	-1,718.76	661.13	599.68	61.45	10.759		
9,400.00	8,381.35	8,362.35	8,362.35	18.23	43.72	-92.43	-202.48	-1,718.76	572.93	511.02	61.90	9.255		
9,500.00	8,378.87	8,359.87	8,359.87	18.70	43.70	-91.94	-202.48	-1,718.76	489.27	426.90	62.37	7.845		
9,600.00	8,376.38	8,357.38	8,357.38	19.17	43.69	-91.45	-202.48	-1,718.76	412.93	350.08	62.85	6.570		
9,700.00	8,373.89	8,354.89	8,354.89	19.67	43.68	-90.96	-202.48	-1,718.76	348.74	285.41	63.34	5.506		
9,800.00	8,371.41	8,352.41	8,352.41	20.17	43.66	-90.47	-202.48	-1,718.76	304.50	240.67	63.83	4.770		
9,894.58	8,369.06	8,350.06	8,350.06	20.66	43.65	-90.00	-202.48	-1,718.76	289.45	225.14	64.31	4.501	CC, ES	
9,900.00	8,368.92	8,349.92	8,349.92	20.69	43.65	-89.97	-202.48	-1,718.76	289.50	225.16	64.34	4.500	SF	
10,000.00	8,366.44	8,347.44	8,347.44	21.21	43.64	-89.48	-202.48	-1,718.76	308.04	243.19	64.85	4.750		
10,100.00	8,363.95	8,344.95	8,344.95	21.75	43.62	-88.99	-202.48	-1,718.76	354.90	289.53	65.37	5.429		
10,200.00	8,361.46	8,342.46	8,342.46	22.30	43.61	-88.50	-202.48	-1,718.76	420.72	354.82	65.89	6.385		
10,300.00	8,358.98	8,339.98	8,339.98	22.85	43.60	-88.01	-202.48	-1,718.76	498.04	431.62	66.42	7.498		
10,400.00	8,356.49	8,337.49	8,337.49	23.42	43.59	-87.51	-202.48	-1,718.76	582.30	515.34	66.95	8.697		
10,500.00	8,354.00	8,335.00	8,335.00	23.99	43.57	-87.02	-202.48	-1,718.76	670.88	603.39	67.49	9.941		
10,600.00	8,351.52	8,332.52	8,332.52	24.56	43.56	-86.53	-202.48	-1,718.76	762.29	694.26	68.03	11.206		
10,700.00	8,349.03	8,330.03	8,330.03	25.15	43.55	-86.04	-202.48	-1,718.76	855.61	787.05	68.57	12.478		
10,800.00	8,346.55	8,327.55	8,327.55	25.74	43.53	-85.55	-202.48	-1,718.76	950.29	881.18	69.11	13.750		
10,900.00	8,344.06	8,325.06	8,325.06	26.33	43.52	-85.07	-202.48	-1,718.76	1,045.95	976.30	69.65	15.016		
11,000.00	8,341.57	8,322.57	8,322.57	26.93	43.51	-84.58	-202.48	-1,718.76	1,142.35	1,072.15	70.20	16.273		
11,100.00	8,339.09	8,320.09	8,320.09	27.54	43.49	-84.09	-202.48	-1,718.76	1,239.32	1,168.58	70.74	17.519		
11,200.00	8,336.60	8,317.60	8,317.60	28.15	43.48	-83.60	-202.48	-1,718.76	1,336.73	1,265.44	71.29	18.751		
11,300.00	8,334.12	8,315.12	8,315.12	28.76	43.47	-83.12	-202.48	-1,718.76	1,434.49	1,362.66	71.83	19.970		
11,400.00	8,331.63	8,312.63	8,312.63	29.38	43.46	-82.63	-202.48	-1,718.76	1,532.53	1,460.16	72.37	21.175		
11,500.00	8,329.14	8,310.14	8,310.14	30.00	43.44	-82.15	-202.48	-1,718.76	1,630.81	1,557.90	72.92	22.365		
11,600.00	8,326.66	8,307.66	8,307.66	30.62	43.43	-81.67	-202.48	-1,718.76	1,729.28	1,655.83	73.46	23.541		
11,700.00	8,324.17	8,305.17	8,305.17	31.25	43.42	-81.19	-202.48	-1,718.76	1,827.92	1,753.92	74.00	24.703		
11,800.00	8,321.68	8,302.68	8,302.68	31.88	43.40	-80.71	-202.48	-1,718.76	1,926.69	1,852.16	74.53	25.850		

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

Pathfinder - A Schlumberger Company

Anticollision Report

Company:	Devon Energy, Inc.	Local Co-ordinate Reference:	Well Taylor Draw 7 Fed 3H
Project:	Lea County (NAD83)	TVD Reference:	GL +26' Elevation @ 3659.00usft (Original Well Elev)
Reference Site:	Taylor Draw "7" Fed 3H	MD Reference:	GL +26' Elevation @ 3659.00usft (Original Well Elev)
Site Error:	0.00-usft	North Reference:	Grid
Reference Well:	Taylor Draw 7 Fed 3H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore:	Original Hole	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design: Taylor Draw 7 Fed 1H - Taylor Draw 7 Fed 1H - Original Hole - Original Hole														Offset Site Error:	0.00 usft
Survey Program: 100-MWD-ISCWSA														Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis		Distance		Minimum		Separation		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (°)	Offset Wellbore Centre +N/S (usft)	+E/W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
0.00	0.00	0.00	0.00	0.00	0.00	179.62	-200.28	1.32	201.02						
100.00	100.00	82.85	82.85	0.13	0.07	179.70	-200.27	1.06	200.27	200.07	0.20	1,022.548			
129.21	129.21	112.02	112.01	0.18	0.10	179.76	-200.26	0.84	200.26	199.98	0.29	700.973			
200.00	200.00	182.50	182.49	0.30	0.25	179.95	-200.32	0.18	200.32	199.76	0.56	360.175			
300.00	300.00	282.33	282.32	0.48	0.46	-179.71	-200.52	-1.03	200.53	199.59	0.94	213.372			
400.00	400.00	382.55	382.53	0.65	0.67	-179.32	-200.69	-2.38	200.71	199.38	1.32	151.533			
500.00	500.00	482.28	482.25	0.83	0.88	-178.93	-200.82	-3.76	200.85	199.15	1.71	117.810			
600.00	600.00	581.02	580.97	1.00	1.09	-178.48	-201.33	-5.35	201.41	199.32	2.09	96.385			
700.00	700.00	681.28	681.22	1.18	1.30	-177.99	-202.21	-7.10	202.34	199.86	2.47	81.764			
800.00	800.00	781.51	781.54	1.35	1.52	-177.61	-202.84	-8.48	203.02	200.16	2.86	70.995			
900.00	900.00	880.71	880.62	1.53	1.73	-177.22	-203.57	-9.88	203.82	200.58	3.24	62.864			
1,000.00	1,000.00	980.63	980.53	1.70	1.94	-176.94	-204.66	-10.94	204.96	201.33	3.63	56.515			
1,100.00	1,100.00	1,080.56	1,080.45	1.87	2.15	-176.74	-205.73	-11.70	205.07	202.06	4.01	51.377			
1,200.00	1,200.00	1,179.60	1,179.48	2.05	2.35	-176.81	-207.06	-11.52	207.41	203.01	4.39	47.206			
1,300.00	1,300.00	1,280.92	1,280.79	2.22	2.56	-176.98	-208.51	-10.98	208.81	204.03	4.78	43.676			
1,400.00	1,400.00	1,380.56	1,380.42	2.40	2.77	-177.08	-209.47	-10.67	209.75	204.59	5.16	40.614			
1,500.00	1,500.00	1,480.43	1,480.28	2.57	2.98	-177.32	-210.71	-9.87	210.95	205.41	5.55	38.019			
1,600.00	1,600.00	1,580.88	1,580.72	2.75	3.19	-177.56	-211.86	-9.02	212.06	206.13	5.93	35.736			
1,700.00	1,700.00	1,681.37	1,681.20	2.92	3.40	-177.91	-212.77	-7.76	212.92	206.60	6.32	33.694			
1,800.00	1,800.00	1,782.55	1,782.35	3.10	3.61	-178.48	-213.36	-5.68	213.43	206.73	6.71	31.828			
1,900.00	1,900.00	1,884.59	1,884.43	3.27	3.82	-179.32	-213.17	-2.52	213.19	206.09	7.09	30.054			
2,000.00	2,000.00	1,985.81	1,985.48	3.45	4.03	179.53	-212.10	1.38	212.12	204.65	7.48	28.364			
2,100.00	2,100.00	2,086.98	2,086.51	3.62	4.25	178.23	-210.49	6.50	210.52	202.76	7.86	26.781			
2,200.00	2,200.00	2,189.16	2,188.52	3.79	4.46	176.76	-207.99	11.79	208.40	200.15	8.25	25.255			
2,300.00	2,300.00	2,289.87	2,289.06	3.97	4.67	175.32	-204.68	16.75	205.46	196.83	8.64	23.790			
2,400.00	2,400.00	2,389.08	2,388.05	4.14	4.89	173.67	-201.30	22.33	202.60	193.58	9.02	22.463			
2,500.00	2,500.00	2,489.28	2,488.01	4.32	5.10	171.85	-197.96	28.34	200.04	190.64	9.40	21.271			
2,600.00	2,600.00	2,588.60	2,587.15	4.49	5.32	170.26	-194.72	33.44	197.61	187.83	9.79	20.190			
2,700.00	2,700.00	2,687.54	2,685.92	4.67	5.53	168.70	-191.89	38.34	195.71	185.54	10.17	19.244			
2,800.00	2,800.00	2,785.84	2,784.07	4.84	5.75	167.11	-189.66	43.39	194.58	184.01	10.55	18.439			
2,900.00	2,900.00	2,885.30	2,883.38	5.02	5.97	165.49	-187.94	48.65	194.14	183.20	10.94	17.754			
2,955.71	2,955.71	2,940.51	2,938.51	5.11	6.09	164.54	-187.11	51.40	194.04	182.89	11.15	17.405			
3,000.00	3,000.00	2,984.29	2,982.23	5.19	6.19	163.94	-186.53	53.69	194.10	182.79	11.32	17.150			
3,100.00	3,100.00	3,085.49	3,083.29	5.37	6.41	162.39	-185.13	58.75	194.23	182.52	11.71	16.593			
3,162.33	3,162.33	3,147.37	3,145.11	5.47	6.54	161.57	-184.14	61.37	194.10	182.15	11.94	16.250			
3,200.00	3,200.00	3,184.50	3,182.21	5.54	6.63	161.10	-183.68	62.90	194.16	182.07	12.09	16.062			
3,300.00	3,300.00	3,284.59	3,282.20	5.71	6.84	159.85	-182.62	67.00	194.52	182.05	12.47	15.595			
3,400.00	3,400.00	3,384.14	3,381.67	5.99	7.06	158.65	-181.56	70.96	194.94	182.08	12.86	15.160			
3,500.00	3,500.00	3,483.44	3,480.89	6.06	7.28	157.56	-180.88	74.70	195.71	182.47	13.24	14.773			
3,600.00	3,600.00	3,583.24	3,580.61	6.24	7.49	156.44	-180.36	78.64	196.77	183.14	13.63	14.438			
3,700.00	3,700.00	3,683.73	3,681.04	6.41	7.71	155.41	-179.86	82.30	197.80	183.79	14.02	14.112			
3,800.00	3,800.00	3,784.34	3,781.61	6.59	7.93	154.60	-179.35	85.16	198.55	184.14	14.40	13.785			
3,900.00	3,900.00	3,883.79	3,881.03	6.76	8.14	153.89	-178.91	87.69	199.25	184.46	14.79	13.474			
4,000.00	4,000.00	3,983.47	3,980.69	6.94	8.35	153.41	-179.05	89.62	200.24	185.07	15.17	13.198			
4,100.00	4,100.00	4,082.88	4,080.09	7.11	8.56	153.18	-179.74	90.86	201.42	185.87	15.56	12.949			
4,200.00	4,200.00	4,182.56	4,179.75	7.29	8.77	153.08	-180.86	91.83	202.86	186.92	15.94	12.727			
4,300.00	4,300.00	4,284.19	4,281.37	7.46	8.98	153.13	-182.02	92.21	204.04	187.72	16.33	12.497			
4,400.00	4,400.00	4,385.08	4,382.26	7.63	9.18	153.43	-182.89	91.47	204.48	187.77	16.71	12.236			
4,500.00	4,500.00	4,484.90	4,482.07	7.81	9.39	153.67	-183.52	90.82	204.76	187.57	17.09	11.979			
4,600.00	4,600.00	4,584.45	4,581.63	7.98	9.59	153.82	-184.16	90.56	205.22	187.75	17.48	11.743			
4,700.00	4,700.00	4,682.82	4,679.98	8.16	9.79	153.96	-185.20	90.50	206.15	188.29	17.86	11.545			

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

Pathfinder - A Schlumberger Company

Anticollision Report

Company:	Devon Energy, Inc.	Local Co-ordinate Reference:	Well Taylor Draw 7 Fed 3H
Project:	Lea County (NAD83)	TVD Reference:	GL +26' Elevation @ 3659.00usft (Original Well Elev)
Reference Site:	Taylor Draw "7" Fed 3H	MD Reference:	GL +26' Elevation @ 3659.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Taylor Draw 7 Fed 3H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	Original Hole	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design Taylor Draw 7 Fed 1H - Taylor Draw 7 Fed 1H - Original Hole - Original Hole														Offset Site Error:	0.00 usft
Survey Program: 100-MWD ISCWSA														Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/S (usft)	Offset Wellbore Centre +E/W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
4,800.00	4,800.00	4,782.51	4,779.76	8.33	10.00	154.12	-186.79	90.61	207.63	189.39	18.24	11.383			
4,900.00	4,900.00	4,884.74	4,881.89	8.51	10.21	154.22	-187.89	90.76	208.57	190.04	18.63	11.202			
5,000.00	5,000.00	4,965.23	4,962.37	8.68	10.42	154.32	-188.28	90.53	208.91	189.90	19.01	10.988			
5,100.00	5,100.00	5,085.35	5,082.49	8.86	10.62	154.58	-188.85	89.75	209.09	189.69	19.40	10.780			
5,200.00	5,200.00	5,185.63	5,182.76	9.03	10.83	154.96	-189.51	88.55	209.18	189.40	19.78	10.576			
5,300.00	5,300.00	5,288.13	5,285.25	9.20	11.04	155.48	-189.84	86.60	208.68	188.51	20.17	10.348			
5,400.00	5,400.00	5,389.60	5,386.67	9.38	11.24	156.15	-189.40	83.72	207.12	186.57	20.55	10.079			
5,500.00	5,500.00	5,489.00	5,486.02	9.55	11.44	156.87	-188.83	80.65	205.35	184.42	20.93	9.812			
5,600.00	5,600.00	5,590.84	5,587.82	9.73	11.65	157.47	-187.83	77.90	203.41	182.09	21.31	9.543			
5,700.00	5,700.00	5,692.42	5,689.34	9.90	11.85	158.06	-185.91	74.88	200.53	178.33	21.70	9.242			
5,800.00	5,800.00	5,791.93	5,788.78	10.08	12.06	158.54	-183.58	72.17	197.35	175.27	22.08	8.938			
5,900.00	5,900.00	5,891.38	5,888.18	10.25	12.26	158.96	-181.42	69.79	194.45	171.99	22.46	8.658			
6,000.00	6,000.00	5,993.21	5,989.95	10.43	12.47	159.40	-178.90	67.25	191.26	168.41	22.85	8.371			
6,100.00	6,100.00	6,091.26	6,087.93	10.60	12.67	159.76	-176.28	65.00	187.95	164.73	23.23	8.093			
6,200.00	6,200.00	6,192.14	6,188.76	10.78	12.88	160.15	-173.96	62.81	185.05	161.44	23.61	7.838			
6,300.00	6,300.00	6,291.60	6,288.16	10.95	13.09	160.73	-171.66	60.03	181.93	157.94	23.99	7.583			
6,400.00	6,400.00	6,392.33	6,388.82	11.12	13.29	161.35	-169.32	57.15	178.81	154.43	24.38	7.335			
6,500.00	6,500.00	6,491.88	6,488.30	11.30	13.50	161.86	-166.73	54.61	175.53	150.77	24.76	7.089			
6,600.00	6,600.00	6,591.98	6,588.34	11.47	13.71	162.22	-164.05	52.62	172.37	147.22	25.15	6.855			
6,700.00	6,700.00	6,692.02	6,688.33	11.65	13.92	162.32	-161.05	51.34	169.12	143.59	25.53	6.624			
6,800.00	6,800.00	6,791.13	6,787.39	11.82	14.13	162.38	-158.24	50.24	166.08	140.17	25.91	6.409			
6,900.00	6,900.00	6,890.97	6,887.20	12.00	14.34	162.42	-155.89	49.33	163.38	137.08	26.30	6.212			
7,000.00	7,000.00	6,991.19	6,987.38	12.17	14.55	162.48	-153.10	48.34	160.61	133.93	26.68	6.019			
7,100.00	7,100.00	7,090.96	7,087.12	12.35	14.76	162.57	-150.51	47.25	157.81	130.74	27.07	5.830			
7,200.00	7,200.00	7,190.37	7,186.49	12.52	14.96	162.60	-148.10	46.42	155.24	127.79	27.45	5.655			
7,300.00	7,300.00	7,288.85	7,284.95	12.70	15.17	162.80	-146.45	45.34	153.33	125.49	27.83	5.508			
7,400.00	7,400.00	7,387.76	7,383.85	12.87	15.38	163.19	-145.79	44.04	152.30	124.08	28.22	5.397			
7,500.00	7,500.00	7,489.65	7,485.73	13.04	15.59	163.53	-144.88	42.83	151.10	122.50	28.61	5.282			
7,600.00	7,600.00	7,589.14	7,585.19	13.22	15.80	163.90	-143.37	41.37	149.24	120.25	28.99	5.148			
7,700.00	7,700.00	7,690.66	7,686.69	13.39	16.01	164.09	-141.52	40.34	147.20	117.83	29.38	5.011			
7,800.00	7,800.00	7,792.48	7,788.45	13.57	16.22	164.50	-138.58	38.43	143.92	114.15	29.77	4.835			
7,900.00	7,900.00	7,894.56	7,890.38	13.74	16.44	165.49	-134.61	34.83	139.25	109.08	30.16	4.617			
7,990.16	7,989.75	7,983.93	7,979.61	13.90	16.63	-109.13	-130.49	31.76	136.70	106.22	30.48	4.485			
8,000.00	7,999.50	7,993.63	7,989.29	13.92	16.65	-109.34	-130.05	31.47	136.43	105.93	30.50	4.473	CC, ES, SF		
8,100.00	8,095.30	8,089.96	8,085.49	14.09	16.85	-118.39	-125.85	28.62	143.01	112.49	30.53	4.685			
8,200.00	8,193.38	8,179.35	8,174.76	14.27	17.04	-129.49	-121.83	26.21	166.36	136.71	29.65	5.611			
8,300.00	8,260.07	8,256.99	8,252.29	14.47	17.21	-137.84	-119.47	24.22	211.73	183.97	27.76	7.626			
8,400.00	8,322.17	8,321.54	8,316.78	14.68	17.34	-141.54	-116.65	22.09	277.44	251.80	25.64	10.820			
8,500.00	8,367.09	8,370.16	8,365.36	14.92	17.45	-139.73	-115.51	20.32	358.40	333.72	24.68	14.522			
8,600.00	8,392.94	8,400.00	8,395.17	15.19	17.51	-127.74	-114.85	19.18	449.61	422.22	27.39	16.415			
8,700.00	8,398.75	8,409.53	8,404.70	15.49	17.53	-95.01	-114.65	18.81	546.26	513.37	32.89	16.611			
8,800.00	8,396.27	8,410.94	8,406.10	15.82	17.53	-96.16	-114.62	18.75	644.56	611.40	33.16	19.435			
8,900.00	8,393.78	8,412.33	8,407.49	16.17	17.54	-96.92	-114.59	18.70	743.42	709.94	33.48	22.206			
9,000.00	8,391.30	8,413.72	8,408.88	16.54	17.54	-97.68	-114.56	18.65	842.54	808.73	33.81	24.920			
9,100.00	8,388.81	9,979.00	9,297.48	16.94	29.82	-173.62	-59.05	-962.22	932.84	915.19	17.65	52.856			
9,200.00	8,386.33	10,060.71	9,294.35	17.35	31.40	-173.74	-52.37	-1,043.59	931.22	912.89	18.53	50.257			
9,300.00	8,383.84	10,168.00	9,290.87	17.78	33.55	-173.87	-44.18	-1,150.51	930.26	910.56	19.60	47.458			
9,397.24	8,381.42	10,252.28	9,288.18	18.22	35.29	-173.95	-38.07	-1,234.52	929.43	908.91	20.51	45.309			
9,400.00	8,381.35	10,254.59	9,288.12	18.23	35.34	-173.95	-37.91	-1,236.83	929.43	908.89	20.54	45.253			
9,500.00	8,378.87	10,340.43	9,286.79	18.70	37.15	-174.00	-32.26	-1,322.47	930.25	908.77	21.48	43.307			

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Pathfinder - A Schlumberger Company Anticollision Report

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Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Taylor Draw 7 Fed 3H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	Original Hole	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design Taylor Draw 7 Fed 1H - Taylor Draw 7 Fed 1H - Original Hole - Original Hole													Offset Site Error: 0.00 usft
Survey Program: 100-MWD-ISOWSA													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
9,600.00	8,376.38	10,447.62	9,285.70	19.17	39.45	-174.06	-25.44	-1,429.43	931.65	909.07	22.58	41.254	
9,700.00	8,373.89	10,555.15	9,283.27	19.67	41.84	-174.06	-19.35	-1,537.76	931.89	908.17	23.72	39.292	
9,710.38	8,373.64	10,565.44	9,283.02	19.72	42.04	-174.06	-18.88	-1,547.04	931.88	908.06	23.82	39.120	
9,800.00	8,371.41	10,647.36	9,281.40	20.17	43.87	-174.05	-14.31	-1,628.82	932.33	907.50	24.72	37.709	
9,900.00	8,368.92	10,760.47	9,278.45	20.69	46.43	-174.08	-7.50	-1,741.68	932.13	906.24	25.89	36.006	
10,000.00	8,368.44	10,857.16	9,275.91	21.21	48.64	-174.09	-1.89	-1,838.17	931.96	905.03	26.94	34.600	
10,100.00	8,363.95	10,958.74	9,272.65	21.75	50.98	-174.11	4.23	-1,939.52	931.20	903.18	28.02	33.237	
10,119.30	8,363.47	10,974.32	9,272.24	21.86	51.34	-174.12	5.14	-1,955.07	931.16	902.96	28.20	33.024	
10,200.00	8,361.46	11,046.16	9,270.99	22.30	53.01	-174.11	9.04	-2,026.79	931.75	902.75	29.00	32.129	
10,300.00	8,358.98	11,158.04	9,268.69	22.85	55.62	-174.11	15.32	-2,138.47	932.19	902.02	30.17	30.899	
10,400.00	8,356.49	11,260.16	9,265.36	23.42	58.03	-174.12	21.33	-2,240.35	931.39	900.13	31.26	29.794	
10,500.00	8,354.00	11,362.42	9,262.40	23.99	60.44	-174.09	26.51	-2,342.44	931.04	898.67	32.37	28.759	
10,600.00	8,351.52	11,466.73	9,259.51	24.56	62.92	-174.04	31.82	-2,446.54	929.86	896.35	33.51	27.752	
10,700.00	8,349.03	11,560.81	9,255.13	25.15	65.17	-173.99	36.43	-2,540.45	928.85	894.28	34.56	26.873	
10,747.48	8,347.85	11,602.59	9,253.85	25.43	66.16	-173.94	38.01	-2,582.18	928.67	893.61	35.06	26.490	
10,800.00	8,346.55	11,645.31	9,252.90	25.74	67.19	-173.88	39.27	-2,624.87	928.95	893.36	35.58	26.106	
10,900.00	8,344.06	11,745.17	9,251.55	26.33	69.58	-173.66	41.24	-2,724.70	930.48	893.71	36.77	25.305	
11,000.00	8,341.57	11,863.23	9,248.33	26.93	72.41	-173.41	43.91	-2,842.68	930.52	892.50	38.12	24.411	
11,100.00	8,339.09	11,981.11	9,242.74	27.54	75.26	-173.19	47.23	-2,960.38	928.68	889.20	39.47	23.526	
11,200.00	8,336.60	12,078.46	9,237.45	28.15	77.61	-173.11	51.67	-3,057.49	925.88	885.29	40.60	22.806	
11,300.00	8,334.12	12,166.09	9,233.87	28.76	79.74	-173.11	56.79	-3,144.89	924.25	882.65	41.60	22.217	
11,400.00	8,331.63	12,278.19	9,228.71	29.38	82.47	-173.19	64.65	-3,256.60	921.92	879.18	42.75	21.567	
11,500.00	8,329.14	12,363.55	9,225.33	30.00	84.55	-173.25	70.68	-3,341.68	920.27	876.58	43.69	21.063	
11,563.28	8,327.57	12,418.76	9,223.78	30.39	85.89	-173.29	74.35	-3,396.74	920.00	875.69	44.30	20.766	
11,600.00	8,326.66	12,450.99	9,223.08	30.62	86.68	-173.30	76.40	-3,428.89	920.09	875.43	44.66	20.601	
11,700.00	8,324.17	12,542.23	9,221.83	31.25	88.91	-173.30	81.46	-3,519.99	921.19	875.50	45.69	20.162	
11,800.00	8,321.68	12,668.84	9,218.63	31.88	92.01	-173.25	87.69	-3,646.40	921.25	874.22	47.03	19.588	
11,900.00	8,319.20	12,774.55	9,213.49	32.52	94.59	-173.19	92.91	-3,751.86	918.94	870.72	48.22	19.059	
12,000.00	8,316.71	12,864.75	9,209.77	33.16	96.81	-173.11	98.96	-3,841.39	917.44	868.15	49.29	18.613	
12,100.00	8,314.23	12,962.65	9,206.50	33.80	99.21	-173.04	101.36	-3,939.63	916.73	866.30	50.43	18.178	
12,200.00	8,311.74	13,067.42	9,202.74	34.44	101.78	-172.99	108.61	-4,044.20	915.70	864.09	51.61	17.744	
12,300.00	8,309.25	13,162.67	9,199.17	35.08	104.13	-172.96	111.74	-4,139.44	914.50	861.80	52.69	17.355	
12,372.26	8,307.46	13,227.83	9,197.23	35.55	105.73	-172.94	115.08	-4,204.29	914.19	860.74	53.45	17.103	
12,400.00	8,306.77	13,252.40	9,196.64	35.73	106.34	-172.93	116.27	-4,228.83	914.24	860.49	53.74	17.011	
12,500.00	8,304.28	13,358.24	9,194.28	36.38	108.94	-172.85	121.14	-4,334.53	914.64	859.59	54.95	16.646	
12,600.00	8,301.79	13,477.00	9,189.55	37.03	111.87	-172.80	127.05	-4,453.04	913.22	856.97	56.25	16.235	
12,700.00	8,299.31	13,573.50	9,184.86	37.68	114.25	-172.74	131.80	-4,549.32	910.95	853.57	57.38	15.975	
12,800.00	8,296.82	13,682.76	9,179.29	38.34	116.94	-172.69	137.57	-4,658.27	908.40	849.79	58.60	15.501	
12,900.00	8,294.34	13,782.71	9,173.81	38.99	119.41	-172.68	143.29	-4,757.91	905.41	845.69	59.73	15.159	
12,913.48	8,294.00	13,790.00	9,173.41	39.08	119.59	-172.68	143.71	-4,765.18	905.03	845.20	59.83	15.127	

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

Pathfinder - A Schlumberger Company

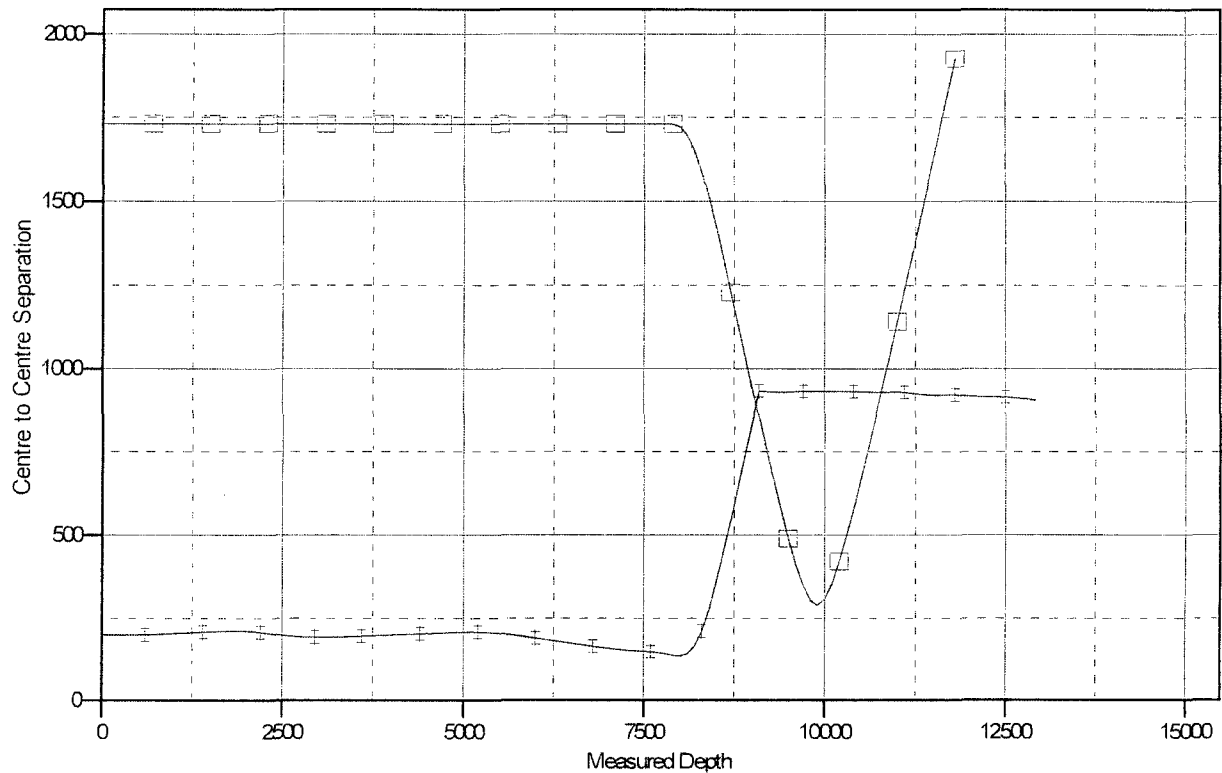
Anticollision Report

Company:	Devon Energy, Inc.	Local Co-ordinate Reference:	Well Taylor Draw 7 Fed 3H
Project:	Lea County (NAD83)	TVD Reference:	GL +26' Elevation @ 3659.00usft (Original Well Elev)
Reference Site:	Taylor Draw "7" Fed 3H	MD Reference:	GL +26' Elevation @ 3659.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Taylor Draw 7 Fed 3H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore:	Original Hole	Database:	EDM 5000:1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to GL +26' Elevation @ 3659.00usft (Ori
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Taylor Draw 7 Fed 3H
Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Grid Convergence at Surface is: 0.29°

Ladder Plot



LEGEND

avkeye 7 Fed #2, Original Hole, Original Hole V0 — Taylor Draw 7 Fed 1H, Original Hole, Original Hole V0

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

Pathfinder - A Schlumberger Company

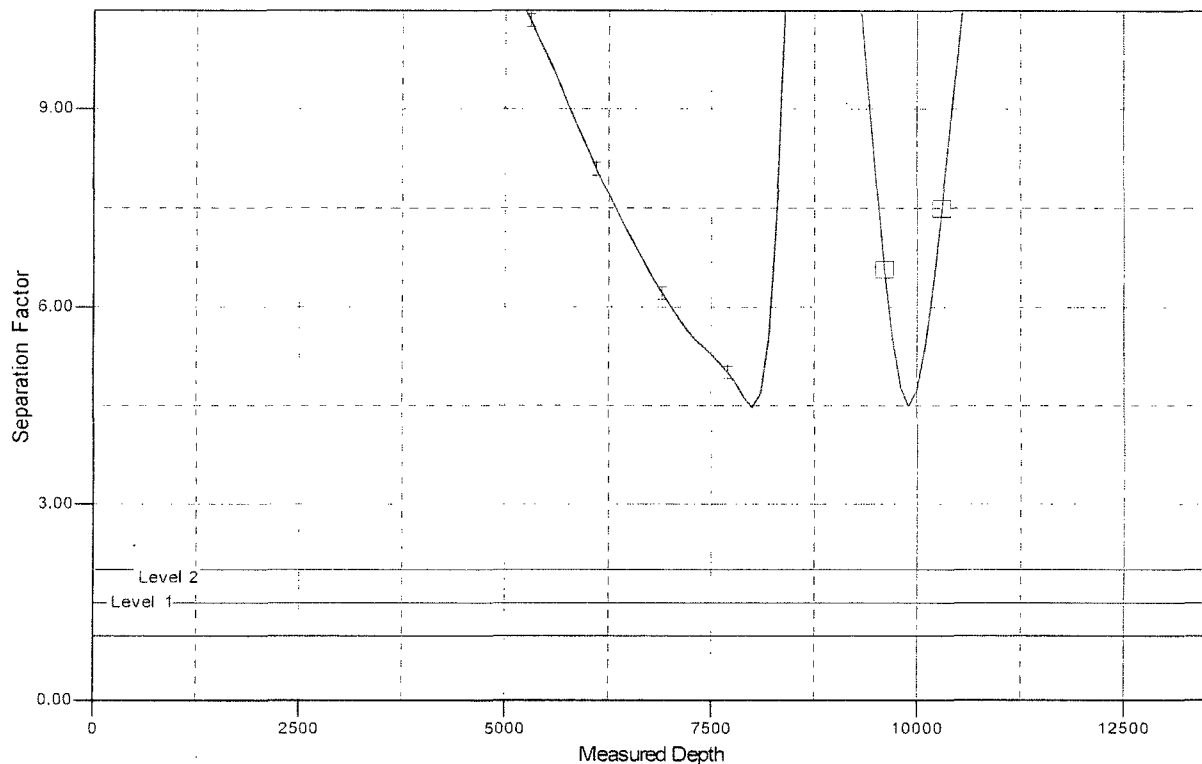
Anticollision Report

Company:	Devon Energy, Inc.	Local Co-ordinate Reference:	Well Taylor Draw 7 Fed 3H
Project:	Lea County (NAD83)	TVD Reference:	GL +26' Elevation @ 3659.00usft (Original Well Elev)
Reference Site:	Taylor Draw "7" Fed 3H	MD Reference:	GL +26' Elevation @ 3659.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Taylor Draw 7 Fed 3H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	Original Hole	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to GL +26' Elevation @ 3659.00usft (Ori
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Taylor Draw 7 Fed 3H
Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Grid Convergence at Surface is: 0.29°

Separation Factor Plot



LEGEND

avkeye 7 Fed #2, Original Hole, Original Hole V0 Taylor Draw 7 Fed 1H, Original Hole, Original Hole V0

Devon Energy, Inc.
Taylor Draw 7 Fed 3H - Design #1

Lea County (NAD83)
Taylor Draw "7" Fed 3H
Your Ref:

Measured Depth (ft)	Incl.	Azim.	Vertical Depth (ft)	Northings (ft)	Eastings (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
0		0	0	0	0	0	0
100		0	0	100	0	0	0
200		0	0	200	0	0	0
300		0	0	300	0	0	0
400		0	0	400	0	0	0
500		0	0	500	0	0	0
600		0	0	600	0	0	0
700		0	0	700	0	0	0
800		0	0	800	0	0	0
900		0	0	900	0	0	0
1000		0	0	1000	0	0	0
1100		0	0	1100	0	0	0
1200		0	0	1200	0	0	0
1300		0	0	1300	0	0	0
1400		0	0	1400	0	0	0
1500		0	0	1500	0	0	0
1600		0	0	1600	0	0	0
1700		0	0	1700	0	0	0
1800		0	0	1800	0	0	0
1900		0	0	1900	0	0	0
2000		0	0	2000	0	0	0
2100		0	0	2100	0	0	0
2200		0	0	2200	0	0	0
2300		0	0	2300	0	0	0
2400		0	0	2400	0	0	0
2500		0	0	2500	0	0	0
2600		0	0	2600	0	0	0
2700		0	0	2700	0	0	0
2800		0	0	2800	0	0	0
2900		0	0	2900	0	0	0
3000		0	0	3000	0	0	0
3100		0	0	3100	0	0	0

3200	0	0	3200	0	0	0	0
3300	0	0	3300	0	0	0	0
3400	0	0	3400	0	0	0	0
3500	0	0	3500	0	0	0	0
3600	0	0	3600	0	0	0	0
3700	0	0	3700	0	0	0	0
3800	0	0	3800	0	0	0	0
3900	0	0	3900	0	0	0	0
4000	0	0	4000	0	0	0	0
4100	0	0	4100	0	0	0	0
4200	0	0	4200	0	0	0	0
4300	0	0	4300	0	0	0	0
4400	0	0	4400	0	0	0	0
4500	0	0	4500	0	0	0	0
4600	0	0	4600	0	0	0	0
4700	0	0	4700	0	0	0	0
4800	0	0	4800	0	0	0	0
4900	0	0	4900	0	0	0	0
5000	0	0	5000	0	0	0	0
5100	0	0	5100	0	0	0	0
5200	0	0	5200	0	0	0	0
5300	0	0	5300	0	0	0	0
5400	0	0	5400	0	0	0	0
5500	0	0	5500	0	0	0	0
5600	0	0	5600	0	0	0	0
5700	0	0	5700	0	0	0	0
5800	0	0	5800	0	0	0	0
5900	0	0	5900	0	0	0	0
6000	0	0	6000	0	0	0	0
6100	0	0	6100	0	0	0	0
6200	0	0	6200	0	0	0	0
6300	0	0	6300	0	0	0	0
6400	0	0	6400	0	0	0	0
6500	0	0	6500	0	0	0	0
6600	0	0	6600	0	0	0	0
6700	0	0	6700	0	0	0	0
6800	0	0	6800	0	0	0	0
6900	0	0	6900	0	0	0	0
7000	0	0	7000	0	0	0	0
7100	0	0	7100	0	0	0	0
7200	0	0	7200	0	0	0	0
7300	0	0	7300	0	0	0	0
7400	0	0	7400	0	0	0	0
7500	0	0	7500	0	0	0	0
7600	0	0	7600	0	0	0	0
7700	0	0	7700	0	0	0	0
7800	0	0	7800	0	0	0	0

7900	0	0	7900	0	0	0	0
7911.69	0	0	7911.69	0	0	0	0
7925	1.561	272.238	7925	0.01	-0.18	0.18	11.73
7950	4.494	272.238	7949.96	0.06	-1.5	1.5	11.73
7975	7.426	272.238	7974.82	0.16	-4.09	4.1	11.73
8000	10.359	272.238	7999.52	0.31	-7.96	7.96	11.73
8025	13.291	272.238	8023.99	0.51	-13.07	13.08	11.73
8050	16.224	272.238	8048.16	0.76	-19.44	19.45	11.73
8075	19.156	272.238	8071.97	1.06	-27.03	27.04	11.73
8100	22.089	272.238	8095.37	1.4	-35.82	35.85	11.73
8125	25.021	272.238	8118.28	1.79	-45.81	45.83	11.73
8150	27.953	272.238	8140.66	2.23	-56.95	56.98	11.73
8175	30.886	272.238	8162.43	2.7	-69.22	69.26	11.73
8200	33.818	272.238	8183.55	3.23	-82.58	82.63	11.73
8225	36.751	272.238	8203.95	3.79	-97.01	97.07	11.73
8250	39.683	272.238	8223.59	4.39	-112.46	112.53	11.73
8275	42.616	272.238	8242.42	5.04	-128.9	128.98	11.73
8300	45.548	272.238	8260.37	5.72	-146.28	146.37	11.73
8325	48.481	272.238	8277.42	6.43	-164.55	164.65	11.73
8350	51.413	272.238	8293.5	7.18	-183.67	183.78	11.73
8375	54.346	272.238	8308.59	7.95	-203.58	203.71	11.73
8400	57.278	272.238	8322.63	8.76	-224.25	224.38	11.73
8425	60.211	272.238	8335.6	9.6	-245.6	245.75	11.73
8450	63.143	272.238	8347.46	10.46	-267.59	267.75	11.73
8475	66.076	272.238	8358.18	11.34	-290.15	290.33	11.73
8500	69.008	272.238	8367.73	12.24	-313.24	313.43	11.73
8525	71.941	272.238	8376.09	13.16	-336.78	336.99	11.73
8550	74.873	272.238	8383.22	14.09	-360.72	360.94	11.73
8575	77.805	272.238	8389.13	15.04	-384.99	385.23	11.73
8600	80.738	272.238	8393.78	16	-409.53	409.78	11.73
8625	83.67	272.238	8397.17	16.97	-434.28	434.54	11.73
8650	86.603	272.238	8399.29	17.94	-459.17	459.45	11.73
8675	89.535	272.238	8400.13	18.92	-484.13	484.43	11.73
8691.07	91.42	272.238	8399.02	19.5	-499.18	499.49	11.73
8692.07	91.42	272.238	8399	19.54	-500.18	500.49	0
8700	91.42	272.317	8398.8	19.86	-508.11	508.42	1
8791.1	91.425	273.228	8396.54	24.26	-599.07	599.49	1
8800	91.425	273.228	8396.32	24.76	-607.95	608.39	0
8900	91.425	273.228	8393.83	30.39	-707.77	708.35	0
9000	91.425	273.228	8391.35	36.02	-807.58	808.32	0
9100	91.425	273.228	8388.86	41.65	-907.39	908.29	0
9200	91.425	273.228	8386.38	47.28	-1007.2	1008.26	0
9300	91.425	273.228	8383.89	52.91	-1107.01	1108.23	0
9400	91.425	273.228	8381.4	58.54	-1206.82	1208.2	0
9500	91.425	273.228	8378.92	64.17	-1306.63	1308.17	0
9600	91.425	273.228	8376.43	69.8	-1406.44	1408.14	0
9700	91.425	273.228	8373.94	75.43	-1506.25	1508.11	0

9800	91.425	273.228	8371.46	81.06	-1606.06	1608.08	0
9900	91.425	273.228	8368.97	86.69	-1705.87	1708.05	0
10000	91.425	273.228	8366.49	92.32	-1805.68	1808.01	0
10100	91.425	273.228	8364	97.95	-1905.49	1907.98	0
10200	91.425	273.228	8361.51	103.58	-2005.3	2007.95	0
10300	91.425	273.228	8359.03	109.21	-2105.11	2107.92	0
10400	91.425	273.228	8356.54	114.84	-2204.92	2207.89	0
10500	91.425	273.228	8354.05	120.47	-2304.73	2307.86	0
10600	91.425	273.228	8351.57	126.1	-2404.54	2407.83	0
10700	91.425	273.228	8349.08	131.73	-2504.35	2507.8	0
10800	91.425	273.228	8346.6	137.36	-2604.16	2607.77	0
10900	91.425	273.228	8344.11	142.99	-2703.97	2707.74	0
11000	91.425	273.228	8341.62	148.62	-2803.78	2807.71	0
11100	91.425	273.228	8339.14	154.25	-2903.6	2907.67	0
11200	91.425	273.228	8336.65	159.88	-3003.41	3007.64	0
11300	91.425	273.228	8334.16	165.51	-3103.22	3107.61	0
11400	91.425	273.228	8331.68	171.13	-3203.03	3207.58	0
11500	91.425	273.228	8329.19	176.76	-3302.84	3307.55	0
11600	91.425	273.228	8326.71	182.39	-3402.65	3407.52	0
11700	91.425	273.228	8324.22	188.02	-3502.46	3507.49	0
11800	91.425	273.228	8321.73	193.65	-3602.27	3607.46	0
11900	91.425	273.228	8319.25	199.28	-3702.08	3707.43	0
12000	91.425	273.228	8316.76	204.91	-3801.89	3807.4	0
12100	91.425	273.228	8314.27	210.54	-3901.7	3907.37	0
12200	91.425	273.228	8311.79	216.17	-4001.51	4007.33	0
12300	91.425	273.228	8309.3	221.8	-4101.32	4107.3	0
12400	91.425	273.228	8306.82	227.43	-4201.13	4207.27	0
12500	91.425	273.228	8304.33	233.06	-4300.94	4307.24	0
12600	91.425	273.228	8301.84	238.69	-4400.75	4407.21	0
12700	91.425	273.228	8299.36	244.32	-4500.56	4507.18	0
12800	91.425	273.228	8296.87	249.95	-4600.37	4607.15	0
12900	91.425	273.228	8294.38	255.58	-4700.18	4707.12	0
12915.48	91.425	273.228	8294	256.45	-4715.63	4722.59	0

All data are in feet unless otherwise stated. Directions and coordinates are relative to Grid North.
Vertical depths are relative to GL +26' Elevation. Northings and Eastings are relative to Well.

The Dogleg Severity is in Degrees per 100 feet.

Vertical Section is from Slot and calculated along an Azimuth of 273.220° (Grid).

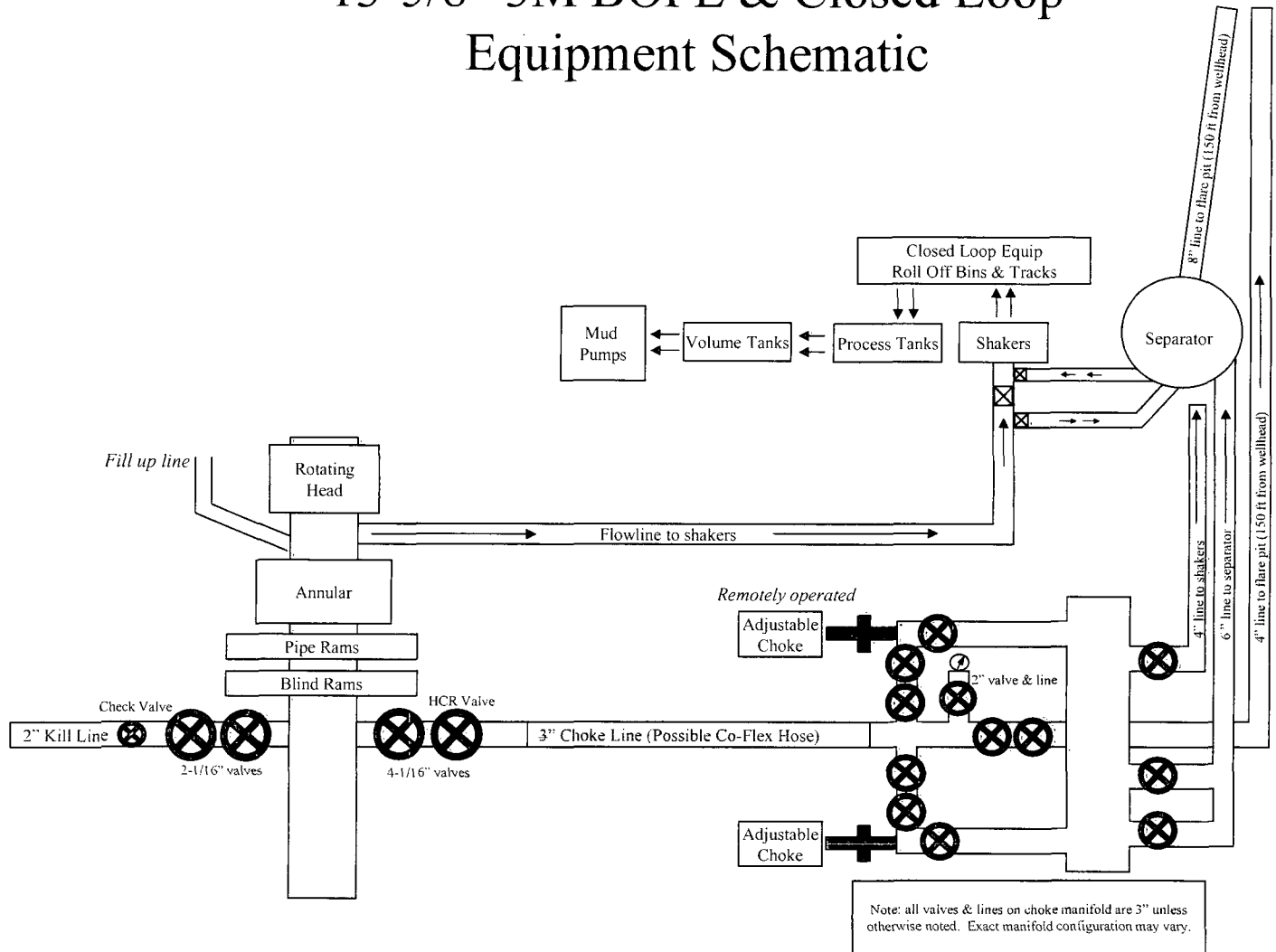
Coordinate System is North American Datum 1983 US State Plane 1983, New Mexico Eastern Zone.

Central meridian is -104.333°.

Grid Convergence at Surface is 0.289°.

Based upon Minimum Curvature type calculations, at a Measured Depth of 12915.48ft.,
the Bottom Hole Displacement is 4722.60ft., in the Direction of 273.220° (Grid).

13-5/8" 3M BOPE & Closed Loop Equipment Schematic



NOTES REGARDING BLOWOUT PREVENTERS

Devon Energy Production Company, L.P.

Taylor Draw 7 Fed 3H

1. Drilling Nipple will be constructed so it can be removed mechanically without the aid of a welder. The minimum internal diameter will equal BOP bore.
2. Wear ring will be properly installed in head.
3. Blowout preventer and all associated filings will be in operable condition to withstand a minimum of 3000psi working pressure.
4. All fittings will be flanged.
5. A fill bore safety valve tested to a minimum of 3000psi WP with proper thread connections will be available on the rotary rig floor at all times.
6. All choke lines will be anchored to prevent movement.
7. All BOP equipment will be equal to or larger in bore than the internal diameter of the last casing string.
8. Will maintain a kelly cock attached to the kelly.
9. Hand wheels and wrenches will be properly installed and tested for safe operation.
10. Hydraulic floor control for blowout preventer will be located as near in proximity to driller's controls as possible.
11. All BOP equipment will meet API standards and include a minimum 40 gallon accumulator having two independent means of power to initiate closing operation.



Fluid Technology

ContiTech Beattie Corp.
Website: www.contitechbeattie.com

Monday, June 14, 2010

RE: Drilling & Production Hoses
Lifting & Safety Equipment

To Helmerich & Payne,

A Continental Contitech hose assembly can perform as intended and suitable for the application regardless of whether the hose is secured or unsecured in its configuration. As a manufacturer of High Pressure Hose Assemblies for use in Drilling & Production, we do offer the corresponding lifting and safety equipment, this has the added benefit of easing the lifting and handling of each hose assembly whilst affording hose longevity by ensuring correct handling methods and procedures as well as securing the hose in the unlikely event of a failure; but in no way does the lifting and safety equipment affect the performance of the hoses providing the hoses have been handled and installed correctly it is good practice to use lifting & safety equipment but not mandatory

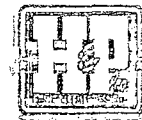
Should you have any questions or require any additional information/clarifications then please do not hesitate to contact us.

ContiTech Beattie is part of the Continental AG Corporation and can offer the full support resources associated with a global organization.

Best regards,

Robin Hodgson
Sales Manager
ContiTech Beattie Corp

ContiTech Beattie Corp,
11535 Brittmoore Park Drive,
Houston, TX 77041
Phone: +1 (832) 327-0141
Fax: +1 (832) 327-0148
www.contitechbeattie.com



Hydrostatic Test Certificate

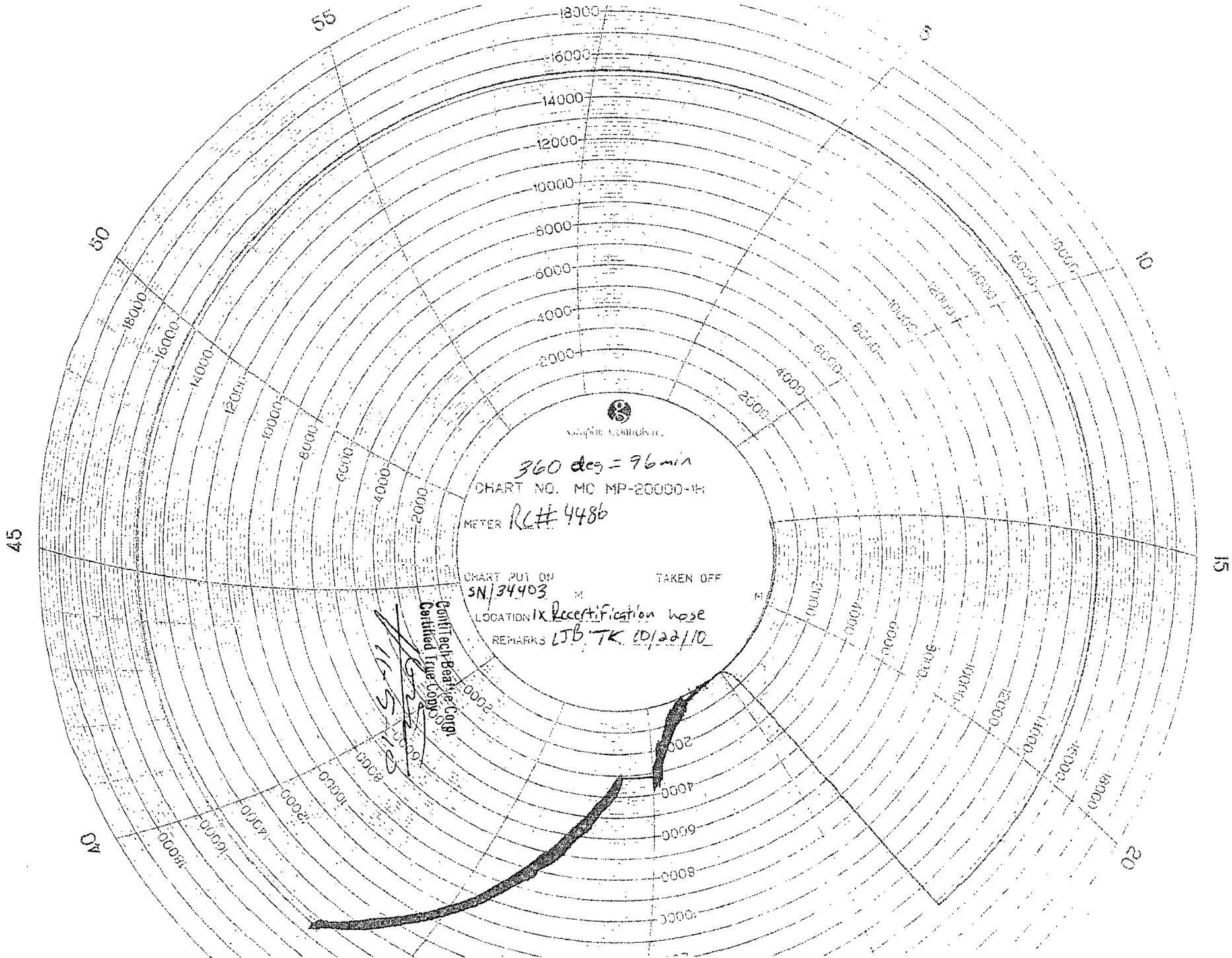


Certificate Number: 4520	PBC No: 10321	Customer Name & Address:
Customer Purchase Order No: RIG 300		HELMERICH & PAYNE INT'L DRILLING CO 1437 SOUTH BOULDER TULSA, OK 74119
Project:		
Test Centre Address:	Accepted by ContiTech Beattie Inspection:	Accepted by Client Inspection:
ContiTech Beattie Corp. 11535 Brittmoore Park Drive Houston, TX 77041 USA	Signed: Josh Sims Date: 10/27/10	

We certify that the goods detailed hereon have been inspected by our Quality Management System, and to the best of our knowledge are found to conform to relevant industrial standards within the requirements of the purchase order as issued to ContiTech Beattie Corporation.

These goods were made in the United States of America.

Item	Part No	Description	Qty	Serial Number	As-Built Length (m)	Work Press.	Test Press.	Test Time (minutes)
1		3" ID 10K Choke & Kill Hose x 35ft OAL End A: 4.1/16" 10Kpsi API Spec 6A Type 6BX Flange End B: 4.1/16" 10Kpsi API Spec 6A Type 6BX Flange Working Pressure: 10,000psi Test Pressure: 15,000psi Serial#: 49106	1	49106		10 kpsi	15 kpsi	60



H&P Flex Rig Location Layout

