

Form 3160-3
(June 2015)FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: ☐ DRILL ☐ REENTER		5. Lease Serial No.
1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Other		6. If Indian, Allottee or Tribe Name
1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☐ Multiple Zone		7. If Unit or CA Agreement, Name and No.
2. Name of Operator		8. Lease Name and Well No.
3a. Address		9. API Well No. 30-025-53969
3b. Phone No. (include area code)		10. Field and Pool, or Exploratory
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		11. Sec., T. R. M. or Blk. and Survey or Area
14. Distance in miles and direction from nearest town or post office*		12. County or Parish
		13. State
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration
24. Attachments		

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

- | | |
|--|---|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification. |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be requested by the BLM. |

25. Signature	Name (Printed/Typed)	Date
Title		
Approved by (Signature)	Name (Printed/Typed)	Date
Title		
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.

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)



Additional Operator Remarks

Location of Well

0. SHL: SWSE / 330 FSL / 1540 FEL / TWSP: 25S / RANGE: 35E / SECTION: 22 / LAT: 32.10951 / LONG: -103.351838 (TVD: 0 feet, MD: 0 feet)

PPP: NWNE / 100 FNL / 2210 FEL / TWSP: 25S / RANGE: 35E / SECTION: 27 / LAT: 32.108337 / LONG: -103.354002 (TVD: 12600 feet, MD: 13074 feet)

PPP: NESE / 2639 FSL / 2210 FEL / TWSP: 25S / RANGE: 35E / SECTION: 27 / LAT: 32.101343 / LONG: -103.353999 (TVD: 12600 feet, MD: 15615 feet)

BHL: SWSE / 50 FSL / 2210 FEL / TWSP: 25S / RANGE: 35E / SECTION: 34 / LAT: 32.079713 / LONG: -103.35399 (TVD: 12600 feet, MD: 23481 feet)

BLM Point of Contact

Name: JANET D ESTES

Title: ADJUDICATOR

Phone: (575) 234-6233

Email: JESTES@BLM.GOV

C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION		Revised July 9, 2024	
			Submittal Type:	☒ Initial Submittal
				☐ Amended Report
		☐ As Drilled		

WELL LOCATION INFORMATION

API Number 30-025-53969	Pool Code 98117	Pool Name WC-025 G-09 S263504N; Wolfcamp
Property Code 336534	Property Name HENNIN FEDERAL COM	Well Number 702H
OGRID No. 229137	Operator Name COG OPERATING LLC	Ground Level Elevation 3193.0'
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal		

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
0	22	25-S	35-E		330 FSL	1540 FEL	32.109510°N	103.351838°W	LEA

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
0	34	25-S	35-E		50 FSL	2210 FEL	32.079713°N	103.353990°W	LEA

Dedicated Acres 320	Infill or Defining Well Defining	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code Com
Order Numbers.			Well setbacks are under Common Ownership: ☒ Yes ☐ No	

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
0	22	25-S	35-E		330 FSL	1540 FEL	32.109510°N	103.351838°W	LEA

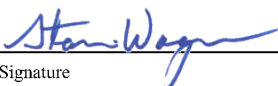
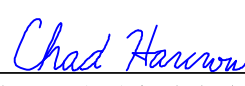
First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
B	27	25-S	35-E		100 FNL	2210 FEL	32.108337°N	103.354002°W	LEA

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
0	34	25-S	34-E		100 FSL	2210 FEL	32.079850°N	103.353990°W	LEA

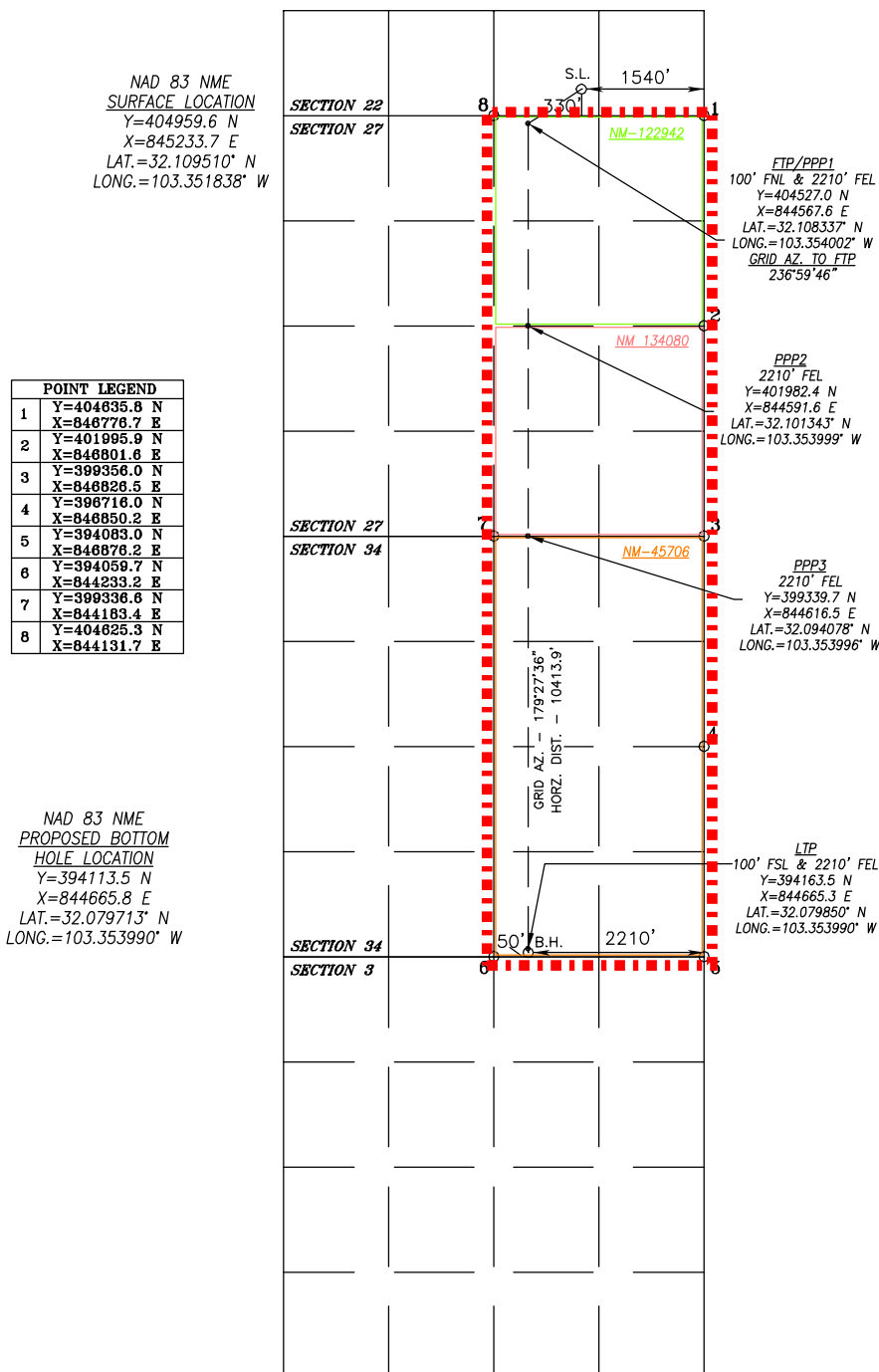
Unitized Area or Area of Uniform Interest	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation: 3193.0'
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OPERATOR CERTIFICATIONS <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i> <i>If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.</i> 		SURVEYOR CERTIFICATIONS <i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i> 	
Signature	Date 9/11/23	Signature and Seal of Professional Surveyor 	
Printed Name Stan Wagner	Certificate Number 17777	Date of Survey JUNE 19, 2023	
Email Address		W.O.#24-1124	DRAWN BY: WN PAGE 1 OF 2

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

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.



State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description Effective May 25, 2021

I. Operator: COG Operating LLC

OGRID: 229137

Date: 09/19/2023

II. Type: ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Hennin Federal Com 702H	30-025-	O-22-25S-35E	330 FSL & 1540 FEL	± 822	± 990	± 1480
Hennin Federal Com 703H	30-025-	O-22-25S-35E	330 FSL & 1510 FEL	± 1385	± 1670	± 2495
Hennin Federal Com 802H	30-025-	O-22-25S-35E	330 FSL & 1480 FEL	± 1150	± 1370	± 5590

IV. Central Delivery Point Name: 27 C CTB NENW 27-25S-35E [See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Hennin Federal Com	Pending	± 8/1/2025	± 25 days from spud	TBD	TBD	TBD
702H, 703H, 802H						

VI. Separation Equipment: ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan

EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☒ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. ☐ Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system ☐ will ☐ will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator ☐ does ☐ does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

☐ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: ☐ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications

Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

☒ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.

If Operator checks this box, Operator will select one of the following:

Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. ☐ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

Section 4 - Notices

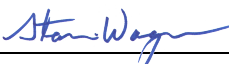
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature: 
Printed Name: Stan Wagner
Title: Regulatory Advisor
E-mail Address: stan.s.wagner@conocophillips.com
Date: 09/19/2023
Phone: 432-253-9685
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

VI. Separation Equipment

How Operator will size separation equipment to optimize gas capture:

All ConocoPhillips production facility equipment will be sized per industry standards (API 12J) with adequate retention time to effectively separate all phases of production. Each project will take into consideration the number of wells and type curves for each formation pool to ensure adequate facility capacity. Design considerations will also include review of all piping, tanks, VRU's and associated equipment to ensure optimized gas capture minimized risk of release.

VII. Operational Practices

Actions Operator will take to comply with the requirements below:

B. Drilling Operations

- During drilling, flare stacks will be located a minimum of 100 feet from the nearest surface hole location. All gas is captured or combusted. If an emergency or malfunction occurs, gas will be flared or vented for public health, safety, and the environment and be properly reported to the NMOCD pursuant to 19.15.27.8.G.
- Measure or estimate the volume of natural gas that is vented, flared or beneficially used during drilling, completion and production operations, regardless of the reason or authorization for such venting or flaring.

C. Completion Operations

- During completion operations, operator does not produce oil or gas but maintains adequate well control through completion operations.
- Individual well test separators will be set to properly separate gas and liquids. A temporary test separator will be utilized initially to process volumes. In addition, separators will be tied into flowback tanks which will be tied into the gas processing equipment for sales down a pipeline.

D. Venting and flaring during production operations

- During each phase of well life (drilling, completion and production) of a ConocoPhillips well, COP personnel will follow all necessary procedures to ensure both the operation and the equipment are within the NMAC 19.15.27.8 Subsection D guidelines.
- During well operations that require unloading of the well to atmospheric pressure, all reasonable actions will be taken to minimize vented gas
- Through the life of the well all flaring shall be measured, and venting events quantified using the data available and industry best practice.

E. Performance standards for separation, storage tank and flare equipment

- All storage tanks and separation equipment are designed minimize risk of liquid or vapor release and optimize gas capture. This includes automation for automatic gauging and pressure monitoring.

- All flare stacks are equipped with auto ignition devices and/or continuous pilots and are designed to operate at maximum combustion efficiency pursuant NMAC 19.15.27.8 Subsection E. Flares will follow COP spacing guidelines to ensure they are a safe distance from combustibles and operations equipment.
- COP personnel will conduct routine AVO inspections on a regular basis per NMAC 19.15.27.8 Subsection E guidelines.

F. Measurement of vented and flared natural gas.

- Measurement equipment will be installed to quantify gas flared during drilling, completion and production of the well.
- All measurement devices installed will meet accuracy ratings per AGA and API standards.
- Measurement devices will be installed without manifolds that allow diversion of gas around the metering element, except for the sole purpose of inspection of servicing the measurement device.

VIII. Best Management Practices

- Operator will curtail or shut in production, within reasonable limits, during upset conditions to minimize venting and flaring.
- When feasible, Operator will use equipment to capture gas that would otherwise be vented or flared.
- During completions and production operations Operator will minimize blowdowns to atmosphere
- When feasible, Operator will use electric or air actuated equipment to reduce bleed emissions

ConocoPhillips Company - Hennin Fed Com 702H

1. Geologic Formations

TVD of target	12,600' EOL	Pilot hole depth	NA
MD at TD:	23,481'	Deepest expected fresh water:	230'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	804	Water	
Top of Salt	1164	Salt	
Base of Salt	4878	Salt	
Lamar	5248	Salt Water	
Bell Canyon	5282	Salt Water	
Cherry Canyon	6204	Oil/Gas	
Brushy Canyon	7690	Oil/Gas	
Bone Spring Lime	8979	Oil/Gas	
1st Bone Spring Sand	10256	Oil/Gas	
2nd Bone Spring Sand	10821	Oil/Gas	
3rd Bone Spring Carb	11336	Oil/Gas	
3rd Bone Spring Sand	11921	Oil/Gas	
Wolfcamp A	12292	Target	

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Body	SF Joint
	From	To								
14.75"	0	1350	10.75"	45.5	J55	BTC	3.38	1.11	11.64	12.96
9.875"	0	8500	7.625"	29.7	L80-ICY	BTC	1.45	1.06	2.88	2.90
8.750"	8500	12050	7.625"	29.7	P110-ICY	W513	1.28	1.60	2.98	1.79
6.75"	0	11550	5.5"	23	P110-CY	BTC	1.94	2.29	2.74	2.74
6.75"	11550	23,481	5.5"	23	P110-CY	W441	1.78	2.10	2.52	2.28
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet

Intermediate casing will be kept at least 1/3 full while running casing to mitigate collapse. Surface burst based on 0.7 frac gradient at the shoe with Gas Gradient 0.1 psi/ft to surface and
All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

The 5 1/2" W441 casing will be run back 200' into the intermediate casing to ensure the coupling OD clearance is greater than .422" for the cement bond tie in.

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	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.	Y
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?	

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3. Cementing Program

Casing	# Skis	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	644	13.5	1.75	9.21	12	Lead: Class C + 4% Gel + 1% CaCl ₂
	250	14.8	1.34	6.4	8	Tail: Class C + 2% CaCl ₂
Inter. Stage 1	850	10.3	3.3	22	24	Halliburton tunded light
	250	14.8	1.35	6.6	8	Tail: Class H
Prod	724	12.5	1.48	10.7	72	Lead: 50:50:10 H Blend
	1004	13.2	1.34	5.7	19	Tail: 50:50:2 Class H Blend

If losses are encountered in the intermediate section a DV/ECP tool will be run ~50' above the Lamar Lime top, cement will be adjusted accordingly if this contingency is necessary.

Volumes Subject to Observed Hole Conditions and/or Fluid Caliper Results

Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.

Casing String	TOC	% Excess
Surface	0'	50%
1 st Intermediate	0'	50%
Production	11,550'	35% OH in Lateral (KOP to EOL)

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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	x	Tested to:
9-7/8"	13-5/8"	5M	Annular	x	2500psi
			Blind Ram	x	5000psi
			Pipe Ram	x	
			Double Ram	x	
			Other*		
6-3/4"	13-5/8"	10M	5M Annular	x	5000psi
			Blind Ram	x	10000psi
			Pipe Ram	x	
			Double Ram	x	
			Other*		

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.
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.
N	Are anchors required by manufacturer?
Y	A multibowl wellhead is being 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.

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5. Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0	Surf. Shoe	FW Gel	8.6 - 8.8	28-34	N/C
Surf csg	7-5/8" Int shoe	Brine Diesel Emulsion	8.4 - 9.2	28-34	N/C
7-5/8" Int shoe	Lateral TD	OBM	9.6 - 12.5	35-45	<20

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.	
Y	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.
Y	No Logs are planned based on well control or offset log information.
N	Drill stem test? If yes, explain.
N	Coring? If yes, explain.

Additional logs planned		Interval
N	Resistivity	Pilot Hole TD to ICP
N	Density	Pilot Hole TD to ICP
Y	CBL	Production casing (If cement not circulated to surface)
Y	Mud log	Intermediate shoe to TD
N	PEX	

ConocoPhillips Company - Hennin Fed Com 702H**7. Drilling Conditions**

Condition	Specify what type and where?
BH Pressure at deepest TVD	8190 psi at 12600' TVD
Abnormal Temperature	NO 180 Deg. F.

No abnormal pressure or temperature conditions are anticipated. Sufficient mud materials to maintain mud properties and weight increase requirements will be kept on location at all times.

Sufficient supplies of Paper/LCM for periodic sweeps to control seepage and losses will be maintained on location.

Hydrogen Sulfide (H₂S) monitors will be installed prior to drilling out the surface shoe. If H₂S 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 H₂S is present

Y H₂S Plan attached

8. Other Facets of Operation

Y	Is it a walking operation?
Y	Is casing pre-set?

x	H ₂ S Plan.
x	BOP & Choke Schematics.
x	Directional Plan

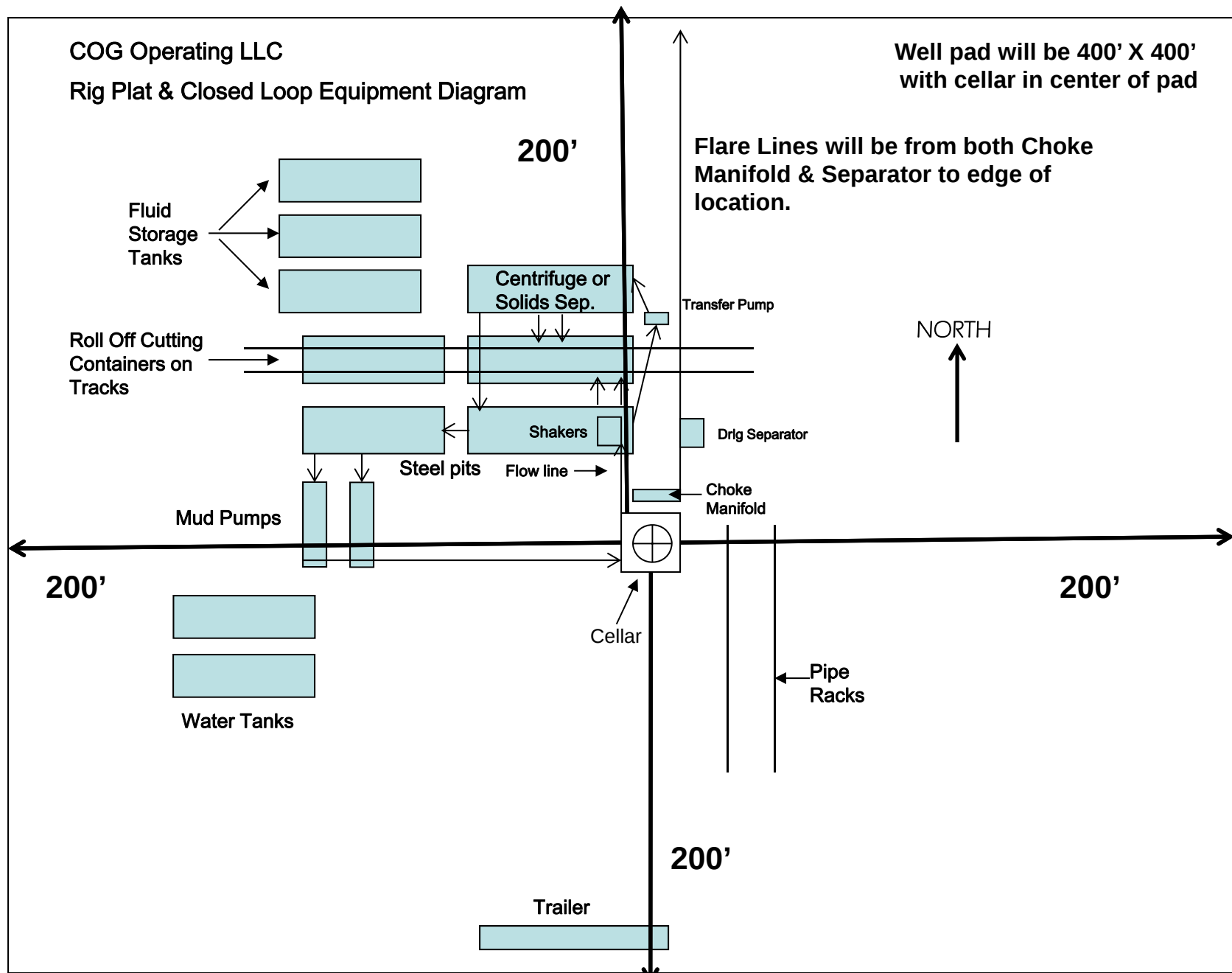


Exhibit 1

"I further certify that COG will comply with Rule 19.15.17 NMAC by using a Closed Loop System."

DELAWARE BASIN EAST

BULLDOG PROSPECT (NM-E)

HENNIN PROJECT

***HENNIN FED COM #702H**

OWB

PWP0

Anticollision Report

29 June, 2023

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *HENNIN FED COM #702H - Slot HENNIN FED COM #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	WELL @ 3220.0usft (Original Well Elev)
Reference Site:	HENNIN PROJECT	MD Reference:	WELL @ 3220.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*HENNIN FED COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

TD 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						
ENERGY DOME FEDERAL PROJECT (BULLDOG 2535)						
MUSIC MASTER 27 FED #3H - OWB - ACTUAL WELLP	23,481.2	13,363.0				Out of Range @TD
MUSIC MASTER 27 FED #3H - OWB PILOT - ACTUAL	23,481.2	9,205.0				Out of Range @TD
HENNIN PROJECT						
JAVELINA FEDERAL #1 (P&A) - OWB - AWP	23,481.2	12,545.1				Out of Range @TD
*HENNIN FED COM #601H - OWB - PWP0	23,481.2	23,465.9				Out of Range @TD
*HENNIN FED COM #602H - OWB - PWP0	23,481.2	23,416.5	852.2	680.2	4.955	ES, SF
*HENNIN FED COM #701H - OWB - PWP0	23,481.2	23,674.8	1,455.6	1,286.6	8.610	CC, ES, SF
*HENNIN FED COM #703H - OWB - PWP0	23,481.2	23,183.4	1,061.1	892.1	6.281	
*HENNIN FED COM #801H - OWB - PWP0	23,481.2	24,174.8				Out of Range @TD
*HENNIN FED COM #802H - OWB - PWP0	23,481.2	24,113.3	1,898.0	1,704.4	9.805	
HENNIN FED #12H - OWB - AWP	23,481.2	12,306.0	466.1	369.4	4.818	CC, ES, SF
HENNIN FED #24H - OWB - AWP	23,481.2	12,448.0	296.7	202.3	3.143	CC, ES, SF
JAZZBASS 34 FEDERAL 003H - OWB - AWP	23,481.2	12,023.5	1,006.6	909.4	10.358	

Offset Design:	ENERGY DOME FEDERAL PROJECT (BULLDOG 2535) - MUSIC MASTER 27 FED #3H - OWB - ACTUAL WELLPATH												Offset Site Error:	0.0 usft
Survey Program:	84-r.5 GYRO-NS, 957-r.5 MWD												Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Offset 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)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.0	0.0	2.4	0.0	3.0	3.0	-133.48	-666.6	-702.9	968.7	962.3	6.43	150.680		
100.0	100.0	100.6	98.2	3.2	3.0	-133.50	-666.8	-702.8	968.8	962.1	6.68	145.055		
200.0	200.0	198.1	195.7	3.5	3.1	-133.53	-667.5	-702.6	969.2	962.2	6.99	138.658		
300.0	300.0	302.1	299.7	3.7	3.2	-133.59	-668.4	-702.1	969.4	962.1	7.33	132.292		
400.0	400.0	404.7	402.3	3.9	3.4	-133.64	-668.9	-701.4	969.3	961.6	7.68	126.127		
500.0	500.0	507.5	505.1	4.1	3.6	-133.70	-669.4	-700.5	968.9	960.9	8.06	120.209		
600.0	600.0	610.4	607.9	4.2	3.8	-133.76	-669.7	-699.2	968.2	959.8	8.45	114.563		
700.0	700.0	711.1	708.6	4.4	4.0	-133.82	-669.8	-697.9	967.3	958.5	8.85	109.360		
800.0	800.0	812.0	809.5	4.6	4.3	-133.88	-669.9	-696.5	966.4	957.2	9.26	104.339		
900.0	900.0	913.6	911.2	4.8	4.5	-133.95	-669.9	-694.9	965.3	955.7	9.66	99.978		
1,000.0	1,000.0	1,014.2	1,011.7	4.9	4.7	-134.03	-670.1	-693.2	964.2	954.3	9.96	96.795		
1,100.0	1,100.0	1,114.1	1,111.6	5.1	4.8	-134.11	-670.2	-691.3	962.9	952.7	10.27	93.780		
1,200.0	1,200.0	1,216.0	1,213.4	5.2	5.0	-134.21	-670.6	-689.2	961.7	951.1	10.57	90.945		
1,300.0	1,300.0	1,315.0	1,312.5	5.4	5.2	-62.10	-670.7	-687.1	959.7	948.8	10.88	88.213		
1,400.0	1,399.9	1,419.3	1,416.7	5.6	5.4	-62.46	-670.8	-685.0	956.4	945.2	11.19	85.475		
1,500.0	1,499.7	1,520.3	1,517.7	5.8	5.6	-62.97	-670.6	-682.5	951.5	940.0	11.50	82.721		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *HENNIN FED COM #702H - Slot HENNIN FED COM #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	WELL @ 3220.0usft (Original Well Elev)
Reference Site:	HENNIN PROJECT	MD Reference:	WELL @ 3220.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*HENNIN FED COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ENERGY DOME FEDERAL PROJECT (BULLDOG 2535) - MUSIC MASTER 27 FED #3H - OWB - ACTUAL												Offset Site Error:	0.0 usft
Survey Program: 84-r.5 GYRO-NS, 957-r.5 MWD												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset		Highside Toolface (")	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
1,600.0	1,599.3	1,617.0	1,614.4	6.1	5.8	-63.62	-670.5	-680.2	945.7	933.9	11.81	80.069	
1,700.0	1,698.6	1,721.6	1,719.0	6.3	6.0	-64.50	-670.3	-677.5	938.6	926.4	12.13	77.357	
1,800.0	1,797.6	1,817.9	1,815.2	6.5	6.2	-65.38	-670.1	-674.9	930.7	918.3	12.38	75.181	
1,900.0	1,896.6	1,922.2	1,919.4	6.7	6.5	-66.33	-669.8	-672.0	922.8	910.1	12.70	72.650	
2,000.0	1,995.7	2,027.1	2,024.3	7.0	6.7	-67.33	-669.2	-668.0	914.3	901.3	13.03	70.161	
2,100.0	2,094.7	2,126.3	2,123.4	7.3	7.0	-68.31	-668.6	-663.9	906.0	892.6	13.35	67.846	
2,200.0	2,193.7	2,219.1	2,216.1	7.6	7.2	-69.25	-668.2	-659.9	897.7	884.1	13.65	65.746	
2,300.0	2,292.8	2,301.6	2,298.6	7.9	7.4	-70.08	-668.5	-657.4	891.3	877.4	13.91	64.055	
2,400.0	2,391.8	2,392.3	2,389.2	8.3	7.6	-70.97	-669.7	-655.9	886.6	872.5	14.14	62.692	
2,500.0	2,490.8	2,494.1	2,491.0	8.6	7.8	-71.97	-670.9	-654.2	882.1	867.8	14.36	61.411	
2,600.0	2,589.8	2,585.4	2,582.4	8.9	7.9	-72.81	-671.6	-653.8	878.3	863.7	14.57	60.271	
2,700.0	2,688.9	2,678.9	2,675.8	9.3	7.9	-73.56	-672.0	-655.4	875.6	860.8	14.78	59.230	
2,800.0	2,787.9	2,784.5	2,781.4	9.7	7.9	-74.39	-672.2	-657.4	872.8	857.9	14.96	58.342	
2,900.0	2,886.9	2,889.2	2,886.1	10.0	7.8	-75.24	-671.9	-658.5	869.5	854.4	15.16	57.360	
3,000.0	2,985.9	2,991.1	2,988.0	10.4	7.8	-76.07	-671.2	-659.5	866.0	850.6	15.37	56.329	
3,100.0	3,085.0	3,095.8	3,092.7	10.8	7.9	-76.96	-670.4	-659.8	862.2	846.6	15.61	55.236	
3,200.0	3,184.0	3,191.4	3,188.2	11.1	7.9	-77.78	-669.3	-660.0	858.2	842.4	15.84	54.178	
3,300.0	3,283.0	3,290.9	3,287.8	11.5	7.9	-78.58	-668.2	-661.1	855.0	838.9	16.05	53.260	
3,400.0	3,382.0	3,393.3	3,390.2	11.9	8.0	-79.45	-667.0	-661.7	851.5	835.2	16.29	52.265	
3,500.0	3,481.1	3,486.4	3,483.2	12.3	8.0	-80.26	-666.1	-662.1	848.4	831.9	16.51	51.381	
3,600.0	3,580.1	3,577.8	3,574.6	12.7	8.1	-81.03	-665.7	-663.2	846.3	829.6	16.69	50.691	
3,700.0	3,679.1	3,678.3	3,675.1	13.1	8.1	-81.89	-665.8	-664.6	844.9	828.0	16.87	50.089	
3,800.0	3,778.2	3,772.8	3,769.6	13.5	8.1	-82.70	-665.9	-665.8	843.7	826.6	17.03	49.529	
3,900.0	3,877.2	3,868.5	3,865.3	13.9	8.1	-83.53	-666.5	-667.3	843.2	826.0	17.20	49.038	
3,930.6	3,907.5	3,898.0	3,894.8	14.0	8.1	-83.79	-666.8	-667.7	843.2	826.0	17.24	48.898	
4,000.0	3,976.2	3,964.8	3,961.6	14.3	8.1	-84.38	-667.6	-668.6	843.3	826.0	17.36	48.592	
4,100.0	4,075.2	4,063.5	4,060.3	14.7	8.1	-85.33	-669.3	-668.9	843.8	826.3	17.53	48.136	
4,200.0	4,174.3	4,166.2	4,162.9	15.1	8.2	-86.35	-671.1	-668.9	844.4	826.7	17.71	47.671	
4,300.0	4,273.3	4,270.3	4,267.1	15.5	8.3	-87.27	-671.7	-670.1	844.6	826.7	17.91	47.166	
4,400.0	4,372.3	4,370.8	4,367.6	15.9	8.3	-88.11	-671.8	-671.9	844.8	826.7	18.11	46.647	
4,500.0	4,471.3	4,474.0	4,470.7	16.3	8.3	-88.92	-671.3	-674.2	844.7	826.4	18.32	46.109	
4,600.0	4,570.4	4,578.3	4,574.9	16.7	8.4	-89.69	-670.2	-677.3	844.5	825.9	18.54	45.556	
4,700.0	4,669.4	4,694.3	4,691.0	17.2	8.5	-90.68	-668.1	-678.2	843.0	824.3	18.77	44.909	
4,800.0	4,768.4	4,791.2	4,787.8	17.6	8.6	-91.62	-665.6	-677.1	840.5	821.5	19.01	44.212	
4,900.0	4,867.5	4,885.2	4,881.7	18.0	8.7	-92.58	-664.2	-675.8	839.1	819.8	19.26	43.568	
5,000.0	4,966.5	4,986.1	4,982.7	18.4	8.8	-93.59	-662.7	-674.5	838.1	818.6	19.53	42.919	
5,100.0	5,065.5	5,084.4	5,081.0	18.8	8.9	-94.57	-661.0	-673.5	837.2	817.4	19.79	42.302	
5,200.0	5,164.5	5,186.8	5,183.3	19.2	9.1	-95.60	-659.1	-672.2	836.2	816.1	20.10	41.608	
5,278.7	5,242.5	5,258.7	5,255.2	19.6	9.2	-96.27	-657.7	-671.9	835.9	815.6	20.33	41.120 CC	
5,300.0	5,263.6	5,278.6	5,275.1	19.6	9.2	-96.45	-657.4	-672.1	835.9	815.5	20.39	40.997 ES	
5,400.0	5,362.6	5,375.4	5,371.9	20.1	9.3	-97.22	-655.8	-673.9	836.4	815.7	20.68	40.448	
5,500.0	5,461.6	5,475.0	5,471.4	20.5	9.4	-98.00	-654.3	-676.0	837.1	816.1	20.97	39.911	
5,600.0	5,560.6	5,575.9	5,572.3	20.9	9.5	-98.79	-652.6	-678.2	837.8	816.5	21.29	39.360	
5,700.0	5,659.7	5,673.7	5,670.0	21.3	9.6	-99.57	-651.0	-680.1	838.7	817.1	21.61	38.815	
5,800.0	5,758.7	5,769.2	5,765.5	21.7	9.7	-100.33	-649.8	-681.8	840.1	818.2	21.90	38.362	
5,900.0	5,857.9	5,868.5	5,864.8	22.1	9.8	-101.06	-648.9	-683.6	841.7	819.5	22.22	37.873	
6,000.0	5,957.3	5,969.2	5,965.5	22.5	9.9	-101.68	-647.7	-685.1	842.8	820.3	22.55	37.379	
6,100.0	6,056.9	6,067.0	6,063.3	22.9	10.0	-102.19	-646.7	-686.4	843.9	821.0	22.85	36.924	
6,200.0	6,156.6	6,160.5	6,156.7	23.3	10.1	-102.55	-646.1	-687.9	844.9	821.8	23.11	36.554	
6,300.0	6,256.5	6,254.4	6,250.6	23.6	10.1	-102.84	-646.5	-689.1	846.7	823.4	23.33	36.296	
6,400.0	6,356.4	6,356.2	6,352.4	24.0	10.2	-103.02	-646.9	-690.5	848.1	824.6	23.52	36.055	

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

ConocoPhillips

Anticollision Report

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Reference Well:	*HENNIN FED COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ENERGY DOME FEDERAL PROJECT (BULLDOG 2535) - MUSIC MASTER 27 FED #3H - OWB - ACTUAL													Offset Site Error:	0.0 usft
WELLPATH													Offset Well Error:	3.0 usft
Survey Program: 84-r.5 GYRO-NS, 957-r.5 MWD														
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
6,500.0	6,456.4	6,454.4	6,450.7	24.2	10.3	-103.08	-647.3	-691.8	849.1	825.4	23.69	35.843		
6,600.0	6,556.4	6,552.4	6,548.6	24.3	10.3	-175.32	-648.0	-693.2	850.0	826.2	23.77	35.755		
6,700.0	6,656.4	6,652.9	6,649.1	24.4	10.4	-175.24	-648.9	-694.5	850.9	827.1	23.87	35.644		
6,800.0	6,756.4	6,754.2	6,750.4	24.4	10.5	-175.17	-649.6	-695.6	851.7	827.7	23.98	35.519		
6,900.0	6,856.4	6,854.7	6,850.9	24.4	10.5	-175.10	-650.1	-696.7	852.4	828.3	24.09	35.387		
7,000.0	6,956.4	6,951.9	6,948.1	24.5	10.6	-175.06	-650.8	-697.3	853.2	829.0	24.19	35.273		
7,100.0	7,056.4	7,051.2	7,047.4	24.5	10.6	-175.04	-651.8	-697.7	854.2	829.9	24.29	35.169		
7,200.0	7,156.4	7,157.2	7,153.4	24.6	10.7	-175.02	-652.6	-698.0	854.9	830.5	24.41	35.024		
7,300.0	7,256.4	7,253.6	7,249.8	24.6	10.7	-175.01	-653.1	-698.3	855.5	831.0	24.52	34.891		
7,400.0	7,356.4	7,353.3	7,349.5	24.6	10.8	-174.99	-653.9	-698.6	856.3	831.6	24.63	34.762		
7,500.0	7,456.4	7,454.7	7,450.8	24.7	10.8	-174.97	-654.6	-699.1	857.0	832.2	24.75	34.620		
7,600.0	7,556.4	7,555.4	7,551.6	24.7	10.9	-174.96	-655.2	-699.2	857.6	832.7	24.88	34.472		
7,700.0	7,656.4	7,657.1	7,653.3	24.8	10.9	-174.98	-655.7	-699.0	858.1	833.1	25.01	34.313		
7,800.0	7,756.4	7,758.1	7,754.2	24.8	10.9	-175.04	-656.0	-698.1	858.4	833.2	25.15	34.136		
7,900.0	7,856.4	7,853.7	7,849.8	24.8	10.9	-175.11	-656.5	-697.0	858.7	833.4	25.28	33.974		
8,000.0	7,956.4	7,942.6	7,938.7	24.9	11.0	-175.20	-657.8	-695.8	860.1	834.7	25.40	33.866		
8,100.0	8,056.4	8,029.9	8,026.0	24.9	11.0	-175.30	-660.3	-694.6	862.9	837.4	25.52	33.815		
8,200.0	8,156.4	8,116.8	8,112.8	25.0	11.0	-175.38	-664.1	-693.6	867.1	841.5	25.65	33.812 SF		
8,300.0	8,256.4	8,202.2	8,198.0	25.0	11.0	-175.46	-669.3	-692.9	873.1	847.3	25.78	33.867		
8,400.0	8,356.4	8,285.0	8,280.7	25.0	11.1	-175.55	-674.7	-691.8	879.7	853.8	25.92	33.938		
8,500.0	8,456.4	8,315.7	8,311.1	25.1	11.3	-175.57	-678.1	-691.8	891.8	865.6	26.20	34.035		
8,600.0	8,556.4	8,338.0	8,333.0	25.1	11.5	-175.55	-682.6	-692.5	912.1	885.6	26.49	34.430		
8,700.0	8,656.4	8,385.0	8,378.0	25.2	11.6	-175.50	-695.8	-694.4	939.8	913.1	26.75	35.131		
8,800.0	8,756.4	8,432.0	8,422.2	25.2	11.7	-175.48	-711.7	-695.9	972.9	945.9	26.97	36.078		
8,900.0	8,856.4	8,479.0	8,465.8	25.3	11.8	-175.53	-729.2	-696.5	1,009.8	982.5	27.23	37.078		
9,000.0	8,956.4	8,510.4	8,494.4	25.3	11.8	-175.62	-742.4	-696.0	1,051.2	1,023.7	27.57	38.126		
9,100.0	9,056.4	8,548.4	8,527.8	25.3	11.9	-175.81	-760.1	-694.1	1,097.4	1,069.5	27.93	39.292		
9,200.0	9,156.4	8,588.5	8,562.4	25.4	12.0	-176.08	-780.3	-690.9	1,147.4	1,119.1	28.30	40.550		
9,300.0	9,256.4	8,621.0	8,589.7	25.4	12.0	-176.29	-797.7	-688.5	1,200.9	1,172.2	28.68	41.865		
9,400.0	9,356.4	8,668.0	8,628.0	25.5	12.1	-176.55	-824.8	-685.7	1,258.1	1,229.0	29.08	43.258		
9,500.0	9,456.4	8,684.2	8,640.7	25.5	12.2	-176.62	-834.7	-684.8	1,318.2	1,288.7	29.52	44.652		
9,600.0	9,556.4	8,715.0	8,664.5	25.6	12.3	-176.77	-854.3	-683.4	1,381.5	1,351.6	29.95	46.129		
9,700.0	9,656.4	8,742.1	8,684.8	25.6	12.3	-176.89	-872.2	-682.1	1,447.4	1,417.0	30.39	47.634		
9,800.0	9,756.4	8,762.0	8,699.4	25.6	12.4	-176.98	-885.7	-681.1	1,515.7	1,484.9	30.84	49.151		
9,900.0	9,856.4	8,809.0	8,732.6	25.7	12.5	-177.20	-918.8	-678.5	1,586.1	1,554.8	31.25	50.761		
10,000.0	9,956.4	8,809.0	8,732.6	25.7	12.5	-177.20	-918.8	-678.5	1,658.4	1,626.7	31.73	52.260		
10,100.0	10,056.4	8,856.0	8,764.0	25.8	12.7	-177.42	-953.7	-675.8	1,732.6	1,700.4	32.17	53.864		
10,200.0	10,156.4	8,856.0	8,764.0	25.8	12.7	-177.42	-953.7	-675.8	1,808.4	1,775.7	32.65	55.380		
10,300.0	10,256.4	8,856.0	8,764.0	25.9	12.7	-177.42	-953.7	-675.8	1,886.4	1,853.3	33.14	56.923		
10,400.0	10,356.4	8,903.0	8,792.6	25.9	12.9	-177.64	-990.9	-672.8	1,965.7	1,932.1	33.60	58.494		

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *HENNIN FED COM #702H - Slot HENNIN FED COM #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	WELL @ 3220.0usft (Original Well Elev)
Reference Site:	HENNIN PROJECT	MD Reference:	WELL @ 3220.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*HENNIN FED COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ENERGY DOME FEDERAL PROJECT (BULLDOG 2535) - MUSIC MASTER 27 FED #3H - OWB PILOT - ACTUAL WELLPATH													Offset Site Error:	0.0 usft
Survey Program:		84-r.5 GYRO-NS, 957-r.5 MWD						Rule Assigned:				Offset Well Error:	3.0 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
0.0	0.0	2.4	0.0	3.0	3.0	-133.48	-666.6	-702.9	968.7	962.3	6.43	150.680		
100.0	100.0	100.6	98.2	3.2	3.0	-133.50	-666.8	-702.8	968.8	962.1	6.68	145.055		
200.0	200.0	198.1	195.7	3.5	3.1	-133.53	-667.5	-702.6	969.2	962.2	6.99	138.658		
300.0	300.0	302.1	299.7	3.7	3.2	-133.59	-668.4	-702.1	969.4	962.1	7.33	132.292		
400.0	400.0	404.7	402.3	3.9	3.4	-133.64	-668.9	-701.4	969.3	961.6	7.68	126.127		
500.0	500.0	507.5	505.1	4.1	3.6	-133.70	-669.4	-700.5	968.9	960.9	8.06	120.209		
600.0	600.0	610.4	607.9	4.2	3.8	-133.76	-669.7	-699.2	968.2	959.8	8.45	114.563		
700.0	700.0	711.1	708.6	4.4	4.0	-133.82	-669.8	-697.9	967.3	958.5	8.85	109.360		
800.0	800.0	812.0	809.5	4.6	4.3	-133.88	-669.9	-696.5	966.4	957.2	9.26	104.339		
900.0	900.0	913.6	911.2	4.8	4.5	-133.95	-669.9	-694.9	965.3	955.7	9.66	99.978		
1,000.0	1,000.0	1,014.2	1,011.7	4.9	4.7	-134.03	-670.1	-693.2	964.2	954.3	9.96	96.795		
1,100.0	1,100.0	1,114.1	1,111.6	5.1	4.8	-134.11	-670.2	-691.3	962.9	952.7	10.27	93.780		
1,200.0	1,200.0	1,216.0	1,213.4	5.2	5.0	-134.21	-670.6	-689.2	961.7	951.1	10.57	90.945		
1,300.0	1,300.0	1,315.0	1,312.5	5.4	5.2	-62.10	-670.7	-687.1	959.7	948.8	10.88	88.213		
1,400.0	1,399.9	1,419.3	1,416.7	5.6	5.4	-62.46	-670.8	-685.0	956.4	945.2	11.19	85.475		
1,500.0	1,499.7	1,520.3	1,517.7	5.8	5.6	-62.97	-670.6	-682.5	951.5	940.0	11.50	82.721		
1,600.0	1,599.3	1,617.0	1,614.4	6.1	5.8	-63.62	-670.5	-680.2	945.7	933.9	11.81	80.069		
1,700.0	1,698.6	1,721.6	1,719.0	6.3	6.0	-64.50	-670.3	-677.5	938.6	926.4	12.13	77.357		
1,800.0	1,797.6	1,817.9	1,815.2	6.5	6.2	-65.38	-670.1	-674.9	930.7	918.3	12.38	75.181		
1,900.0	1,896.6	1,922.2	1,919.4	6.7	6.5	-66.33	-669.8	-672.0	922.8	910.1	12.70	72.650		
2,000.0	1,995.7	2,027.1	2,024.3	7.0	6.7	-67.33	-669.2	-668.0	914.3	901.3	13.03	70.161		
2,100.0	2,094.7	2,126.3	2,123.4	7.3	7.0	-68.31	-668.6	-663.9	906.0	892.6	13.35	67.846		
2,200.0	2,193.7	2,219.1	2,216.1	7.6	7.2	-69.25	-668.2	-659.9	897.7	884.1	13.65	65.746		
2,300.0	2,292.8	2,301.6	2,298.6	7.9	7.4	-70.08	-668.5	-657.4	891.3	877.4	13.91	64.055		
2,400.0	2,391.8	2,392.3	2,389.2	8.3	7.6	-70.97	-669.7	-655.9	886.6	872.5	14.14	62.692		
2,500.0	2,490.8	2,494.1	2,491.0	8.6	7.8	-71.97	-670.9	-654.2	882.1	867.8	14.36	61.411		
2,600.0	2,589.8	2,585.4	2,582.4	8.9	7.9	-72.81	-671.6	-653.8	878.3	863.7	14.57	60.271		
2,700.0	2,688.9	2,678.9	2,675.8	9.3	7.9	-73.56	-672.0	-655.4	875.6	860.8	14.78	59.230		
2,800.0	2,787.9	2,784.5	2,781.4	9.7	7.9	-74.39	-672.2	-657.4	872.8	857.9	14.96	58.342		
2,900.0	2,886.9	2,889.2	2,886.1	10.0	7.8	-75.24	-671.9	-658.5	869.5	854.4	15.16	57.360		
3,000.0	2,985.9	2,991.1	2,988.0	10.4	7.8	-76.07	-671.2	-659.5	866.0	850.6	15.37	56.329		
3,100.0	3,085.0	3,095.8	3,092.7	10.8	7.9	-76.96	-670.4	-659.8	862.2	846.6	15.61	55.236		
3,200.0	3,184.0	3,191.4	3,188.2	11.1	7.9	-77.78	-669.3	-660.0	858.2	842.4	15.84	54.178		
3,300.0	3,283.0	3,290.9	3,287.8	11.5	7.9	-78.58	-668.2	-661.1	855.0	838.9	16.05	53.260		
3,400.0	3,382.0	3,393.3	3,390.2	11.9	8.0	-79.45	-667.0	-661.7	851.5	835.2	16.29	52.265		
3,500.0	3,481.1	3,486.4	3,483.2	12.3	8.0	-80.26	-666.1	-662.1	848.4	831.9	16.51	51.381		
3,600.0	3,580.1	3,577.8	3,574.6	12.7	8.1	-81.03	-665.7	-663.2	846.3	829.6	16.69	50.691		
3,700.0	3,679.1	3,678.3	3,675.1	13.1	8.1	-81.89	-665.8	-664.6	844.9	828.0	16.87	50.089		
3,800.0	3,778.2	3,772.8	3,769.6	13.5	8.1	-82.70	-665.9	-665.8	843.7	826.6	17.03	49.529		
3,900.0	3,877.2	3,868.5	3,865.3	13.9	8.1	-83.53	-666.5	-667.3	843.2	826.0	17.20	49.038		
3,930.6	3,907.5	3,898.0	3,894.8	14.0	8.1	-83.79	-666.8	-667.7	843.2	826.0	17.24	48.898		
4,000.0	3,976.2	3,964.8	3,961.6	14.3	8.1	-84.38	-667.6	-668.6	843.3	826.0	17.36	48.592		
4,100.0	4,075.2	4,063.5	4,060.3	14.7	8.1	-85.33	-669.3	-668.9	843.8	826.3	17.53	48.136		
4,200.0	4,174.3	4,166.2	4,162.9	15.1	8.2	-86.35	-671.1	-668.9	844.4	826.7	17.71	47.671		
4,300.0	4,273.3	4,270.3	4,267.1	15.5	8.3	-87.27	-671.7	-670.1	844.6	826.7	17.91	47.166		
4,400.0	4,372.3	4,370.8	4,367.6	15.9	8.3	-88.11	-671.8	-671.9	844.8	826.7	18.11	46.647		
4,500.0	4,471.3	4,474.0	4,470.7	16.3	8.3	-88.92	-671.3	-674.2	844.7	826.4	18.32	46.109		
4,600.0	4,570.4	4,578.3	4,574.9	16.7	8.4	-89.69	-670.2	-677.3	844.5	825.9	18.54	45.556		
4,700.0	4,669.4	4,694.3	4,691.0	17.2	8.5	-90.68	-668.1	-678.2	843.0	824.3	18.77	44.909		
4,800.0	4,768.4	4,791.2	4,787.8	17.6	8.6	-91.62	-665.6	-677.1	840.5	821.5	19.01	44.212		
4,900.0	4,867.5	4,885.2	4,881.7	18.0	8.7	-92.58	-664.2	-675.8	839.1	819.8	19.26	43.568		

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *HENNIN FED COM #702H - Slot HENNIN FED COM #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	WELL @ 3220.0usft (Original Well Elev)
Reference Site:	HENNIN PROJECT	MD Reference:	WELL @ 3220.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*HENNIN FED COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ENERGY DOME FEDERAL PROJECT (BULLDOG 2535) - MUSIC MASTER 27 FED #3H - OWB PILOT - ACTUAL WELLPATH												Offset Site Error:	0.0 usft
Survey Program: 84-r.5 GYRO-NS, 957-r.5 MWD												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum		Separation		Warning	
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore Centre	Between	Between	Separation	Factor		
Depth	Depth	Depth	Depth	(usft)	(usft)	Toolface	+N/-S	+E/-W	Centres	Ellipses			
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
5,000.0	4,966.5	4,986.1	4,982.7	18.4	8.8	-93.59	-662.7	-674.5	838.1	818.6	19.53	42.919	
5,100.0	5,065.5	5,084.4	5,081.0	18.8	8.9	-94.57	-661.0	-673.5	837.2	817.4	19.79	42.302	
5,200.0	5,164.5	5,186.8	5,183.3	19.2	9.1	-95.60	-659.1	-672.2	836.2	816.1	20.10	41.608	
5,278.7	5,242.5	5,258.7	5,255.2	19.6	9.2	-96.27	-657.7	-671.9	835.9	815.6	20.33	41.120 CC	
5,300.0	5,263.6	5,278.6	5,275.1	19.6	9.2	-96.45	-657.4	-672.1	835.9	815.5	20.39	40.997 ES	
5,400.0	5,362.6	5,375.4	5,371.9	20.1	9.3	-97.22	-655.8	-673.9	836.4	815.7	20.68	40.448	
5,500.0	5,461.6	5,475.0	5,471.4	20.5	9.4	-98.00	-654.3	-676.0	837.1	816.1	20.97	39.911	
5,600.0	5,560.6	5,575.9	5,572.3	20.9	9.5	-98.79	-652.6	-678.2	837.8	816.5	21.29	39.360	
5,700.0	5,659.7	5,673.7	5,670.0	21.3	9.6	-99.57	-651.0	-680.1	838.7	817.1	21.61	38.815	
5,800.0	5,758.7	5,769.2	5,765.5	21.7	9.7	-100.33	-649.8	-681.8	840.1	818.2	21.90	38.362	
5,900.0	5,857.9	5,868.5	5,864.8	22.1	9.8	-101.06	-648.9	-683.6	841.7	819.5	22.22	37.873	
6,000.0	5,957.3	5,969.2	5,965.5	22.5	9.9	-101.68	-647.7	-685.1	842.8	820.3	22.55	37.379	
6,100.0	6,056.9	6,067.0	6,063.3	22.9	10.0	-102.19	-646.7	-686.4	843.9	821.0	22.85	36.924	
6,200.0	6,156.6	6,160.5	6,156.7	23.3	10.1	-102.55	-646.1	-687.9	844.9	821.8	23.11	36.554	
6,300.0	6,256.5	6,254.4	6,250.6	23.6	10.1	-102.84	-646.5	-689.1	846.7	823.4	23.33	36.296	
6,400.0	6,356.4	6,356.2	6,352.4	24.0	10.2	-103.02	-646.9	-690.5	848.1	824.6	23.52	36.055	
6,500.0	6,456.4	6,454.4	6,450.7	24.2	10.3	-103.08	-647.3	-691.8	849.1	825.4	23.69	35.843	
6,600.0	6,556.4	6,552.4	6,548.6	24.3	10.3	-175.32	-648.0	-693.2	850.0	826.2	23.77	35.755	
6,700.0	6,656.4	6,652.9	6,649.1	24.4	10.4	-175.24	-648.9	-694.5	850.9	827.1	23.87	35.644	
6,800.0	6,756.4	6,754.2	6,750.4	24.4	10.5	-175.17	-649.6	-695.6	851.7	827.7	23.98	35.519	
6,900.0	6,856.4	6,854.7	6,850.9	24.4	10.5	-175.10	-650.1	-696.7	852.4	828.3	24.09	35.387	
7,000.0	6,956.4	6,951.9	6,948.1	24.5	10.6	-175.06	-650.8	-697.3	853.2	829.0	24.19	35.273	
7,100.0	7,056.4	7,051.2	7,047.4	24.5	10.6	-175.04	-651.8	-697.7	854.2	829.9	24.29	35.169	
7,200.0	7,156.4	7,157.2	7,153.4	24.6	10.7	-175.02	-652.6	-698.0	854.9	830.5	24.41	35.024	
7,300.0	7,256.4	7,253.6	7,249.8	24.6	10.7	-175.01	-653.1	-698.3	855.5	831.0	24.52	34.891	
7,400.0	7,356.4	7,353.3	7,349.5	24.6	10.8	-174.99	-653.9	-698.6	856.3	831.6	24.63	34.762	
7,500.0	7,456.4	7,454.7	7,450.8	24.7	10.8	-174.97	-654.6	-699.1	857.0	832.2	24.75	34.620	
7,600.0	7,556.4	7,555.4	7,551.6	24.7	10.9	-174.96	-655.2	-699.2	857.6	832.7	24.88	34.472	
7,700.0	7,656.4	7,657.1	7,653.3	24.8	10.9	-174.98	-655.7	-699.0	858.1	833.1	25.01	34.313	
7,800.0	7,756.4	7,758.1	7,754.2	24.8	10.9	-175.04	-656.0	-698.1	858.4	833.2	25.15	34.136	
7,900.0	7,856.4	7,853.7	7,849.8	24.8	10.9	-175.11	-656.5	-697.0	858.7	833.4	25.28	33.974	
8,000.0	7,956.4	7,942.6	7,938.7	24.9	11.0	-175.20	-657.8	-695.8	860.1	834.7	25.40	33.866	
8,100.0	8,056.4	8,029.9	8,026.0	24.9	11.0	-175.30	-660.3	-694.6	862.9	837.4	25.52	33.815	
8,200.0	8,156.4	8,116.8	8,112.8	25.0	11.0	-175.38	-664.1	-693.6	867.1	841.5	25.65	33.812	
8,300.0	8,256.4	8,202.2	8,198.0	25.0	11.0	-175.46	-669.3	-692.9	873.1	847.3	25.78	33.867	
8,400.0	8,356.4	8,308.9	8,304.5	25.0	11.1	-175.59	-676.1	-691.4	879.4	853.4	25.96	33.874	
8,500.0	8,456.4	8,414.2	8,409.6	25.1	11.2	-175.75	-682.1	-689.4	884.9	858.7	26.15	33.839	
8,600.0	8,556.4	8,516.5	8,511.8	25.1	11.3	-175.92	-687.6	-687.2	890.1	863.8	26.34	33.790	
8,700.0	8,656.4	8,621.0	8,616.1	25.2	11.4	-176.10	-692.8	-684.6	894.8	868.3	26.55	33.710	
8,800.0	8,756.4	8,723.8	8,718.8	25.2	11.5	-176.28	-697.4	-682.1	899.2	872.4	26.75	33.613	
8,900.0	8,856.4	8,831.3	8,826.2	25.3	11.6	-176.48	-701.7	-679.3	903.0	876.0	26.97	33.484	
9,000.0	8,956.4	8,935.3	8,930.1	25.3	11.7	-176.67	-705.1	-676.5	906.1	878.9	27.18	33.337	
9,100.0	9,056.4	9,044.1	9,038.8	25.3	11.8	-176.90	-707.9	-673.0	908.5	881.1	27.40	33.159	
9,200.0	9,156.4	9,149.7	9,144.3	25.4	11.9	-177.13	-709.8	-669.4	910.1	882.5	27.60	32.973	
9,300.0	9,256.4	9,205.0	9,199.5	25.4	11.9	-177.25	-710.6	-667.5	912.5	884.8	27.71	32.937 SF	
9,400.0	9,356.4	9,205.0	9,199.5	25.5	11.9	-177.25	-710.6	-667.5	924.2	896.3	27.85	33.188	
9,500.0	9,456.4	9,205.0	9,199.5	25.5	11.9	-177.25	-710.6	-667.5	946.3	918.1	28.16	33.605	
9,600.0	9,556.4	9,205.0	9,199.5	25.6	11.9	-177.25	-710.6	-667.5	978.2	949.6	28.62	34.180	
9,700.0	9,656.4	9,205.0	9,199.5	25.6	11.9	-177.25	-710.6	-667.5	1,018.9	989.7	29.19	34.908	
9,800.0	9,756.4	9,205.0	9,199.5	25.6	11.9	-177.25	-710.6	-667.5	1,067.5	1,037.7	29.83	35.787	
9,900.0	9,856.4	9,205.0	9,199.5	25.7	11.9	-177.25	-710.6	-667.5	1,122.9	1,092.4	30.51	36.808	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *HENNIN FED COM #702H - Slot HENNIN FED COM #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	WELL @ 3220.0usft (Original Well Elev)
Reference Site:	HENNIN PROJECT	MD Reference:	WELL @ 3220.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*HENNIN FED COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ENERGY DOME FEDERAL PROJECT (BULLDOG 2535) - MUSIC MASTER 27 FED #3H - OWB PILOT - ACTUAL WELLPATH													Offset Site Error: 0.0 usft	
Survey Program: 84-r.5 GYRO-NS, 957-r.5 MWD		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned: Distance				Offset Well Error: 3.0 usft		
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside			Between	Between	Minimum	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor		
10,000.0	9,956.4	9,205.0	9,199.5	25.7	11.9	-177.25	-710.6	-667.5	1,184.2	1,153.0	31.20	37.960		
10,100.0	10,056.4	9,205.0	9,199.5	25.8	11.9	-177.25	-710.6	-667.5	1,250.5	1,218.6	31.88	39.225		
10,200.0	10,156.4	9,205.0	9,199.5	25.8	11.9	-177.25	-710.6	-667.5	1,321.0	1,288.5	32.55	40.587		
10,300.0	10,256.4	9,205.0	9,199.5	25.9	11.9	-177.25	-710.6	-667.5	1,395.1	1,361.9	33.19	42.029		
10,400.0	10,356.4	9,205.0	9,199.5	25.9	11.9	-177.25	-710.6	-667.5	1,472.3	1,438.5	33.82	43.535		
10,500.0	10,456.4	9,205.0	9,199.5	26.0	11.9	-177.25	-710.6	-667.5	1,552.1	1,517.7	34.42	45.090		
10,600.0	10,556.4	9,205.0	9,199.5	26.0	11.9	-177.25	-710.6	-667.5	1,634.2	1,599.2	35.01	46.681		
10,700.0	10,656.4	9,205.0	9,199.5	26.0	11.9	-177.25	-710.6	-667.5	1,718.1	1,682.5	35.57	48.299		
10,800.0	10,756.4	9,205.0	9,199.5	26.1	11.9	-177.25	-710.6	-667.5	1,803.7	1,767.6	36.12	49.933		
10,900.0	10,856.4	9,205.0	9,199.5	26.1	11.9	-177.25	-710.6	-667.5	1,890.7	1,854.0	36.66	51.576		
11,000.0	10,956.4	9,205.0	9,199.5	26.2	11.9	-177.25	-710.6	-667.5	1,978.9	1,941.7	37.18	53.221		

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *HENNIN FED COM #702H - Slot HENNIN FED COM #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	WELL @ 3220.0usft (Original Well Elev)
Reference Site:	HENNIN PROJECT	MD Reference:	WELL @ 3220.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*HENNIN FED COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: HENNIN PROJECT - *HENNIN FED COM #602H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
1,900.0	1,896.6	2,205.9	2,197.4	6.7	7.7	-17.33	48.8	-2,013.0	1,978.7	1,964.3	14.40	137.436	
2,000.0	1,995.7	2,301.8	2,291.8	7.0	8.0	-17.21	56.7	-1,998.4	1,950.5	1,935.6	14.93	130.668	
2,100.0	2,094.7	2,397.6	2,386.2	7.3	8.4	-17.08	64.7	-1,983.7	1,922.3	1,906.8	15.48	124.188	
2,200.0	2,193.7	2,493.5	2,480.6	7.6	8.7	-16.94	72.6	-1,969.1	1,894.1	1,878.1	16.05	118.010	
2,300.0	2,292.8	2,589.3	2,575.0	7.9	9.1	-16.80	80.5	-1,954.5	1,865.9	1,849.3	16.64	112.142	
2,400.0	2,391.8	2,685.2	2,669.4	8.3	9.4	-16.66	88.4	-1,939.8	1,837.8	1,820.5	17.24	106.580	
2,500.0	2,490.8	2,781.0	2,763.7	8.6	9.8	-16.51	96.3	-1,925.2	1,809.6	1,791.7	17.86	101.317	
2,600.0	2,589.8	2,876.9	2,858.1	8.9	10.1	-16.36	104.2	-1,910.5	1,781.4	1,763.0	18.49	96.343	
2,700.0	2,688.9	2,972.7	2,952.5	9.3	10.5	-16.21	112.2	-1,895.9	1,753.3	1,734.2	19.13	91.646	
2,800.0	2,787.9	3,068.6	3,046.9	9.7	10.9	-16.05	120.1	-1,881.3	1,725.2	1,705.4	19.78	87.210	
2,900.0	2,886.9	3,164.4	3,141.3	10.0	11.3	-15.88	128.0	-1,866.6	1,697.1	1,676.6	20.44	83.023	
3,000.0	2,985.9	3,260.3	3,235.7	10.4	11.7	-15.71	135.9	-1,852.0	1,669.0	1,647.8	21.11	79.069	
3,100.0	3,085.0	3,356.1	3,330.1	10.8	12.0	-15.53	143.8	-1,837.3	1,640.9	1,619.1	21.78	75.333	
3,200.0	3,184.0	3,451.9	3,424.5	11.1	12.4	-15.34	151.7	-1,822.7	1,612.8	1,590.3	22.46	71.803	
3,300.0	3,283.0	3,547.8	3,518.9	11.5	12.8	-15.15	159.6	-1,808.1	1,584.7	1,561.6	23.15	68.465	
3,400.0	3,382.0	3,643.6	3,613.3	11.9	13.2	-14.96	167.6	-1,793.4	1,556.7	1,532.9	23.84	65.307	
3,500.0	3,481.1	3,739.5	3,707.7	12.3	13.6	-14.75	175.5	-1,778.8	1,528.7	1,504.1	24.53	62.316	
3,600.0	3,580.1	3,835.3	3,802.0	12.7	14.0	-14.54	183.4	-1,764.1	1,500.7	1,475.4	25.23	59.481	
3,700.0	3,679.1	3,931.2	3,896.4	13.1	14.4	-14.32	191.3	-1,749.5	1,472.7	1,446.7	25.93	56.793	
3,800.0	3,778.2	4,027.0	3,990.8	13.5	14.8	-14.09	199.2	-1,734.9	1,444.7	1,418.1	26.63	54.242	
3,900.0	3,877.2	4,122.9	4,085.2	13.9	15.3	-13.85	207.1	-1,720.2	1,416.8	1,389.4	27.34	51.818	
4,000.0	3,976.2	4,218.7	4,179.6	14.3	15.7	-13.60	215.1	-1,705.6	1,388.9	1,360.8	28.05	49.513	
4,100.0	4,075.2	4,314.6	4,274.0	14.7	16.1	-13.35	223.0	-1,690.9	1,361.0	1,332.2	28.76	47.321	
4,200.0	4,174.3	4,410.4	4,368.4	15.1	16.5	-13.08	230.9	-1,676.3	1,333.1	1,303.6	29.47	45.233	
4,300.0	4,273.3	4,506.3	4,462.8	15.5	16.9	-12.80	238.8	-1,661.7	1,305.3	1,275.1	30.18	43.243	
4,400.0	4,372.3	4,602.1	4,557.2	15.9	17.3	-12.51	246.7	-1,647.0	1,277.5	1,246.6	30.90	41.345	
4,500.0	4,471.3	4,697.9	4,651.6	16.3	17.7	-12.20	254.6	-1,632.4	1,249.7	1,218.1	31.61	39.534	
4,600.0	4,570.4	4,793.8	4,745.9	16.7	18.1	-11.88	262.6	-1,617.7	1,221.9	1,189.6	32.32	37.804	
4,700.0	4,669.4	4,889.6	4,840.3	17.2	18.6	-11.55	270.5	-1,603.1	1,194.2	1,161.2	33.04	36.150	
4,800.0	4,768.4	4,985.5	4,934.7	17.6	19.0	-11.20	278.4	-1,588.5	1,166.6	1,132.8	33.75	34.569	
4,900.0	4,867.5	5,081.3	5,029.1	18.0	19.4	-10.83	286.3	-1,573.8	1,138.9	1,104.5	34.46	33.055	
5,000.0	4,966.5	5,177.2	5,123.5	18.4	19.8	-10.45	294.2	-1,559.2	1,111.4	1,076.2	35.16	31.605	
5,100.0	5,065.5	5,273.0	5,217.9	18.8	20.2	-10.05	302.1	-1,544.5	1,083.8	1,048.0	35.87	30.216	
5,200.0	5,164.5	5,368.9	5,309.4	19.2	20.6	-9.64	309.8	-1,530.4	1,056.4	1,019.8	36.56	28.897	
5,300.0	5,263.6	5,464.8	5,392.2	19.6	21.0	-9.28	316.3	-1,518.3	1,029.8	992.5	37.25	27.643	
5,400.0	5,362.6	5,560.7	5,475.7	20.1	21.4	-8.94	322.3	-1,507.3	1,004.4	966.4	37.95	26.463	
5,500.0	5,461.6	5,656.6	5,560.1	20.5	21.7	-8.64	327.7	-1,497.3	980.1	941.5	38.65	25.360	
5,600.0	5,560.6	5,752.5	5,640.1	20.9	22.0	-8.38	332.3	-1,488.8	957.1	917.8	39.34	24.329	
5,700.0	5,659.7	5,848.4	5,730.9	21.3	22.4	-8.13	336.8	-1,480.4	935.2	895.2	40.02	23.366	
5,800.0	5,758.7	5,944.3	5,817.3	21.7	22.7	-7.93	340.5	-1,473.6	914.6	873.9	40.69	22.479	
5,900.0	5,857.9	6,040.2	5,904.5	22.1	23.1	-7.74	343.6	-1,467.9	896.4	855.1	41.35	21.679	
6,000.0	5,957.3	6,136.1	5,992.5	22.5	23.4	-7.59	346.0	-1,463.4	881.1	839.1	41.99	20.985	
6,100.0	6,056.9	6,232.0	6,081.1	22.9	23.7	-7.49	347.9	-1,460.0	868.8	826.2	42.60	20.392	
6,200.0	6,156.6	6,327.9	6,170.1	23.3	23.9	-7.43	349.0	-1,457.8	859.3	816.1	43.18	19.901	
6,300.0	6,256.5	6,423.8	6,269.4	23.6	24.1	-7.42	349.6	-1,456.8	852.8	809.1	43.69	19.517	
6,400.0	6,356.4	6,519.7	6,366.4	24.0	24.2	-7.44	349.6	-1,456.8	848.9	804.9	44.08	19.261	
6,500.0	6,456.4	6,615.6	6,462.4	24.2	24.2	-7.46	349.6	-1,456.8	846.8	802.4	44.41	19.067	
6,600.0	6,556.4	6,711.5	6,558.4	24.3	24.3	-79.76	349.6	-1,456.8	846.4	801.8	44.56	18.994	
6,700.0	6,656.4	6,807.4	6,654.4	24.4	24.3	-79.76	349.6	-1,456.8	846.4	801.8	44.64	18.959	
6,800.0	6,756.4	6,903.3	6,754.4	24.4	24.3	-79.76	349.6	-1,456.8	846.4	801.7	44.73	18.923	
6,900.0	6,856.4	6,999.2	6,856.4	24.4	24.4	-79.76	349.6	-1,456.8	846.4	801.6	44.81	18.887	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *HENNIN FED COM #702H - Slot HENNIN FED COM #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	WELL @ 3220.0usft (Original Well Elev)
Reference Site:	HENNIN PROJECT	MD Reference:	WELL @ 3220.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*HENNIN FED COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: HENNIN PROJECT - *HENNIN FED COM #602H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)		Reference (usft)	Offset (usft)	+N/-S (usft)	+E/-W (usft)						
7,000.0	6,956.4	7,017.7	6,956.4	24.5	24.4	-79.76	349.6	-1,456.8	846.4	801.5	44.90	18.852		
7,100.0	7,056.4	7,117.7	7,056.4	24.5	24.5	-79.76	349.6	-1,456.8	846.4	801.4	44.98	18.816		
7,200.0	7,156.4	7,217.7	7,156.4	24.6	24.5	-79.76	349.6	-1,456.8	846.4	801.3	45.07	18.780		
7,300.0	7,256.4	7,317.7	7,256.4	24.6	24.5	-79.76	349.6	-1,456.8	846.4	801.2	45.16	18.744		
7,400.0	7,356.4	7,417.7	7,356.4	24.6	24.6	-79.76	349.6	-1,456.8	846.4	801.2	45.24	18.708		
7,500.0	7,456.4	7,517.7	7,456.4	24.7	24.6	-79.76	349.6	-1,456.8	846.4	801.1	45.33	18.672		
7,600.0	7,556.4	7,617.7	7,556.4	24.7	24.7	-79.76	349.6	-1,456.8	846.4	801.0	45.42	18.636		
7,700.0	7,656.4	7,717.7	7,656.4	24.8	24.7	-79.76	349.6	-1,456.8	846.4	800.9	45.50	18.601		
7,800.0	7,756.4	7,817.7	7,756.4	24.8	24.8	-79.76	349.6	-1,456.8	846.4	800.8	45.59	18.565		
7,900.0	7,856.4	7,917.7	7,856.4	24.8	24.8	-79.76	349.6	-1,456.8	846.4	800.7	45.68	18.529		
8,000.0	7,956.4	8,017.7	7,956.4	24.9	24.8	-79.76	349.6	-1,456.8	846.4	800.6	45.77	18.493		
8,100.0	8,056.4	8,117.7	8,056.4	24.9	24.9	-79.76	349.6	-1,456.8	846.4	800.5	45.86	18.457		
8,200.0	8,156.4	8,217.7	8,156.4	25.0	24.9	-79.76	349.6	-1,456.8	846.4	800.4	45.95	18.420		
8,300.0	8,256.4	8,317.7	8,256.4	25.0	25.0	-79.76	349.6	-1,456.8	846.4	800.4	46.04	18.384		
8,400.0	8,356.4	8,417.7	8,356.4	25.0	25.0	-79.76	349.6	-1,456.8	846.4	800.3	46.13	18.348		
8,500.0	8,456.4	8,517.7	8,456.4	25.1	25.1	-79.76	349.6	-1,456.8	846.4	800.2	46.22	18.312		
8,600.0	8,556.4	8,617.7	8,556.4	25.1	25.1	-79.76	349.6	-1,456.8	846.4	800.1	46.31	18.276		
8,700.0	8,656.4	8,717.7	8,656.4	25.2	25.2	-79.76	349.6	-1,456.8	846.4	800.0	46.40	18.240		
8,800.0	8,756.4	8,817.7	8,756.4	25.2	25.2	-79.76	349.6	-1,456.8	846.4	799.9	46.50	18.204		
8,900.0	8,856.4	8,917.7	8,856.4	25.3	25.2	-79.76	349.6	-1,456.8	846.4	799.8	46.59	18.168		
9,000.0	8,956.4	9,017.7	8,956.4	25.3	25.3	-79.76	349.6	-1,456.8	846.4	799.7	46.68	18.132		
9,100.0	9,056.4	9,117.7	9,056.4	25.3	25.3	-79.76	349.6	-1,456.8	846.4	799.6	46.77	18.095		
9,200.0	9,156.4	9,217.7	9,156.4	25.4	25.4	-79.76	349.6	-1,456.8	846.4	799.5	46.87	18.059		
9,300.0	9,256.4	9,317.7	9,256.4	25.4	25.4	-79.76	349.6	-1,456.8	846.4	799.4	46.96	18.023		
9,400.0	9,356.4	9,417.7	9,356.4	25.5	25.5	-79.76	349.6	-1,456.8	846.4	799.3	47.06	17.987		
9,500.0	9,456.4	9,517.7	9,456.4	25.5	25.5	-79.76	349.6	-1,456.8	846.4	799.2	47.15	17.951		
9,600.0	9,556.4	9,617.7	9,556.4	25.6	25.6	-79.76	349.6	-1,456.8	846.4	799.2	47.25	17.915		
9,700.0	9,656.4	9,717.7	9,656.4	25.6	25.6	-79.76	349.6	-1,456.8	846.4	799.1	47.34	17.879		
9,800.0	9,756.4	9,817.7	9,756.4	25.6	25.7	-79.76	349.6	-1,456.8	846.4	799.0	47.44	17.843		
9,900.0	9,856.4	9,917.7	9,856.4	25.7	25.7	-79.76	349.6	-1,456.8	846.4	798.9	47.53	17.806		
10,000.0	9,956.4	10,017.7	9,956.4	25.7	25.8	-79.76	349.6	-1,456.8	846.4	798.8	47.63	17.770		
10,100.0	10,056.4	10,117.7	10,056.4	25.8	25.8	-79.76	349.6	-1,456.8	846.4	798.7	47.73	17.734		
10,200.0	10,156.4	10,217.7	10,156.4	25.8	25.8	-79.76	349.6	-1,456.8	846.4	798.6	47.82	17.698		
10,300.0	10,256.4	10,317.7	10,256.4	25.9	25.9	-79.76	349.6	-1,456.8	846.4	798.5	47.92	17.662		
10,400.0	10,356.4	10,417.7	10,356.4	25.9	25.9	-79.76	349.6	-1,456.8	846.4	798.4	48.02	17.626		
10,500.0	10,456.4	10,517.7	10,456.4	26.0	26.0	-79.76	349.6	-1,456.8	846.4	798.3	48.12	17.590		
10,600.0	10,556.4	10,617.7	10,556.4	26.0	26.0	-79.76	349.6	-1,456.8	846.4	798.2	48.22	17.554		
10,700.0	10,656.4	10,717.7	10,656.4	26.0	26.1	-79.76	349.6	-1,456.8	846.4	798.1	48.31	17.518		
10,800.0	10,756.4	10,817.7	10,756.4	26.1	26.1	-79.76	349.6	-1,456.8	846.4	798.0	48.41	17.483		
10,900.0	10,856.4	10,917.7	10,856.4	26.1	26.2	-79.76	349.6	-1,456.8	846.4	797.9	48.51	17.447		
11,000.0	10,956.4	11,017.7	10,956.4	26.2	26.2	-79.76	349.6	-1,456.8	846.4	797.8	48.61	17.411		
11,100.0	11,056.4	11,117.7	11,056.4	26.2	26.3	-79.76	349.6	-1,456.8	846.4	797.7	48.71	17.375		
11,200.0	11,156.4	11,217.7	11,156.4	26.3	26.3	-79.76	349.6	-1,456.8	846.4	797.6	48.81	17.339		
11,300.0	11,256.4	11,317.7	11,256.4	26.3	26.4	-79.76	349.6	-1,456.8	846.4	797.5	48.92	17.303		
11,400.0	11,356.4	11,417.7	11,356.4	26.4	26.4	-79.76	349.6	-1,456.8	846.4	797.4	49.02	17.268		
11,500.0	11,456.4	11,517.7	11,456.4	26.4	26.5	-79.76	349.6	-1,456.8	846.4	797.3	49.12	17.232		
11,600.0	11,556.4	11,617.7	11,556.4	26.5	26.5	-79.76	349.6	-1,456.8	846.4	797.2	49.22	17.196		
11,700.0	11,656.4	11,717.7	11,656.4	26.5	26.6	-79.76	349.6	-1,456.8	846.4	797.1	49.32	17.161		
11,800.0	11,756.4	11,817.7	11,756.4	26.6	26.6	-79.76	349.6	-1,456.8	846.4	797.0	49.42	17.125		
11,900.0	11,856.4	11,928.9	11,867.5	26.6	26.6	-79.85	348.2	-1,456.8	846.2	796.7	49.53	17.085		
12,000.0	11,956.4	12,061.7	11,997.8	26.7	26.4	-81.50	323.6	-1,456.5	842.9	793.2	49.77	16.936		

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *HENNIN FED COM #702H - Slot HENNIN FED COM #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	WELL @ 3220.0usft (Original Well Elev)
Reference Site:	HENNIN PROJECT	MD Reference:	WELL @ 3220.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*HENNIN FED COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: HENNIN PROJECT - *HENNIN FED COM #602H - OWB - PWP0												Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 MWD+IFR1+MS				Rule Assigned:								Offset Well Error: 3.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Offset Well Error: 3.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
12,100.0	12,056.4	12,178.0	12,104.5	26.7	26.2	-84.59	277.9	-1,456.1	837.3	787.3	50.07	16.725	
12,200.0	12,156.3	12,273.9	12,184.1	26.7	26.0	92.51	224.7	-1,455.6	832.6	782.4	50.22	16.581	
12,281.6	12,236.9	12,344.9	12,236.8	26.6	25.9	89.98	177.1	-1,455.1	831.4	781.2	50.19	16.566	CC
12,300.0	12,254.6	12,360.5	12,247.5	26.6	25.9	89.41	165.8	-1,455.0	831.5	781.3	50.17	16.572	
12,400.0	12,347.1	12,442.7	12,298.9	26.4	25.8	86.40	101.6	-1,454.4	833.5	783.4	50.07	16.646	
12,500.0	12,429.8	12,522.0	12,339.2	26.3	25.7	83.59	33.5	-1,453.7	837.5	787.6	49.98	16.756	
12,600.0	12,499.1	12,600.0	12,369.3	26.2	25.6	81.08	-38.4	-1,453.0	842.7	792.7	49.96	16.868	
12,700.0	12,551.9	12,674.6	12,388.7	26.1	25.6	79.03	-110.4	-1,452.3	847.8	797.8	50.01	16.954	
12,800.0	12,585.9	12,750.0	12,398.7	26.1	25.7	77.45	-185.1	-1,451.6	852.2	802.1	50.11	17.007	
12,900.0	12,599.7	12,835.3	12,400.0	26.1	25.7	76.50	-270.3	-1,450.8	854.9	804.7	50.25	17.015	
13,000.0	12,600.0	12,935.3	12,400.0	26.2	25.8	76.47	-370.3	-1,449.8	855.0	804.6	50.40	16.963	
13,100.0	12,600.0	13,035.3	12,400.0	26.3	26.0	76.47	-470.3	-1,448.8	855.0	804.3	50.61	16.893	
13,200.0	12,600.0	13,135.3	12,400.0	26.4	26.1	76.47	-570.3	-1,447.8	854.9	804.1	50.86	16.809	
13,300.0	12,600.0	13,235.3	12,400.0	26.6	26.3	76.47	-670.3	-1,446.9	854.9	803.7	51.15	16.712	
13,400.0	12,600.0	13,335.3	12,400.0	26.7	26.4	76.47	-770.3	-1,445.9	854.9	803.4	51.49	16.602	
13,500.0	12,600.0	13,435.3	12,400.0	26.9	26.6	76.47	-870.3	-1,444.9	854.9	803.0	51.87	16.480	
13,600.0	12,600.0	13,535.3	12,400.0	27.1	26.8	76.47	-970.3	-1,444.0	854.8	802.5	52.29	16.347	
13,700.0	12,600.0	13,635.3	12,400.0	27.3	27.1	76.47	-1,070.2	-1,443.0	854.8	802.0	52.75	16.204	
13,800.0	12,600.0	13,735.3	12,400.0	27.6	27.3	76.47	-1,170.2	-1,442.0	854.8	801.5	53.25	16.051	
13,900.0	12,600.0	13,835.3	12,400.0	27.8	27.6	76.47	-1,270.2	-1,441.0	854.7	801.0	53.79	15.890	
14,000.0	12,600.0	13,935.3	12,400.0	28.1	27.9	76.47	-1,370.2	-1,440.1	854.7	800.4	54.36	15.722	
14,100.0	12,600.0	14,035.3	12,400.0	28.4	28.2	76.47	-1,470.2	-1,439.1	854.7	799.7	54.97	15.547	
14,200.0	12,600.0	14,135.3	12,400.0	28.7	28.5	76.47	-1,570.2	-1,438.1	854.7	799.0	55.62	15.366	
14,300.0	12,600.0	14,235.3	12,400.0	29.0	28.8	76.47	-1,670.2	-1,437.2	854.6	798.3	56.30	15.181	
14,400.0	12,600.0	14,335.3	12,400.0	29.4	29.1	76.47	-1,770.2	-1,436.2	854.6	797.6	57.01	14.991	
14,500.0	12,600.0	14,435.3	12,400.0	29.7	29.5	76.46	-1,870.2	-1,435.2	854.6	796.8	57.75	14.798	
14,600.0	12,600.0	14,535.3	12,400.0	30.1	29.9	76.46	-1,970.2	-1,434.2	854.6	796.0	58.52	14.603	
14,700.0	12,600.0	14,635.3	12,400.0	30.5	30.2	76.46	-2,070.2	-1,433.3	854.5	795.2	59.32	14.405	
14,800.0	12,600.0	14,735.3	12,400.0	30.9	30.6	76.46	-2,170.2	-1,432.3	854.5	794.4	60.15	14.207	
14,900.0	12,600.0	14,835.3	12,400.0	31.3	31.1	76.46	-2,270.2	-1,431.3	854.5	793.5	61.00	14.008	
15,000.0	12,600.0	14,935.3	12,400.0	31.7	31.5	76.46	-2,370.2	-1,430.4	854.5	792.6	61.88	13.809	
15,100.0	12,600.0	15,035.3	12,400.0	32.1	31.9	76.46	-2,470.2	-1,429.4	854.4	791.6	62.78	13.610	
15,200.0	12,600.0	15,135.3	12,400.0	32.6	32.4	76.46	-2,570.2	-1,428.4	854.4	790.7	63.71	13.411	
15,300.0	12,600.0	15,235.3	12,400.0	33.0	32.8	76.46	-2,670.2	-1,427.4	854.4	789.7	64.65	13.214	
15,400.0	12,600.0	15,335.3	12,400.0	33.5	33.3	76.46	-2,770.2	-1,426.5	854.3	788.7	65.62	13.019	
15,500.0	12,600.0	15,435.3	12,400.0	34.0	33.8	76.46	-2,870.2	-1,425.5	854.3	787.7	66.61	12.825	
15,600.0	12,600.0	15,535.3	12,400.0	34.5	34.3	76.46	-2,970.2	-1,424.5	854.3	786.7	67.62	12.633	
15,700.0	12,600.0	15,635.3	12,400.0	35.0	34.8	76.46	-3,070.2	-1,423.6	854.3	785.6	68.65	12.444	
15,800.0	12,600.0	15,735.3	12,400.0	35.5	35.3	76.46	-3,170.1	-1,422.6	854.2	784.5	69.69	12.257	
15,900.0	12,600.0	15,835.3	12,400.0	36.0	35.8	76.46	-3,270.1	-1,421.6	854.2	783.5	70.75	12.073	
16,000.0	12,600.0	15,935.3	12,400.0	36.5	36.3	76.46	-3,370.1	-1,420.7	854.2	782.4	71.83	11.891	
16,100.0	12,600.0	16,035.3	12,400.0	37.0	36.8	76.46	-3,470.1	-1,419.7	854.2	781.2	72.92	11.713	
16,200.0	12,600.0	16,135.3	12,400.0	37.6	37.4	76.46	-3,570.1	-1,418.7	854.1	780.1	74.03	11.537	
16,300.0	12,600.0	16,235.3	12,400.0	38.1	37.9	76.46	-3,670.1	-1,417.7	854.1	779.0	75.15	11.365	
16,400.0	12,600.0	16,335.3	12,400.0	38.7	38.5	76.46	-3,770.1	-1,416.8	854.1	777.8	76.29	11.195	
16,500.0	12,600.0	16,435.3	12,400.0	39.2	39.1	76.46	-3,870.1	-1,415.8	854.1	776.6	77.44	11.029	
16,600.0	12,600.0	16,535.3	12,400.0	39.8	39.6	76.46	-3,970.1	-1,414.8	854.0	775.4	78.60	10.866	
16,700.0	12,600.0	16,635.3	12,400.0	40.4	40.2	76.46	-4,070.1	-1,413.9	854.0	774.2	79.77	10.706	
16,800.0	12,600.0	16,735.3	12,400.0	41.0	40.8	76.45	-4,170.1	-1,412.9	854.0	773.0	80.95	10.549	
16,900.0	12,600.0	16,835.3	12,400.0	41.6	41.4	76.45	-4,270.1	-1,411.9	853.9	771.8	82.15	10.395	
17,000.0	12,600.0	16,935.3	12,400.0	42.2	42.0	76.45	-4,370.1	-1,410.9	853.9	770.6	83.35	10.245	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *HENNIN FED COM #702H - Slot HENNIN FED COM #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	WELL @ 3220.0usft (Original Well Elev)
Reference Site:	HENNIN PROJECT	MD Reference:	WELL @ 3220.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*HENNIN FED COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: HENNIN PROJECT - *HENNIN FED COM #602H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 MWD+IFR1+MS				Offset			Rule Assigned:			Offset Well Error: 3.0 usft				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
17,100.0	12,600.0	17,035.3	12,400.0	42.8	42.6	76.45	-4,470.1	-1,410.0	853.9	769.3	84.56	10.098		
17,200.0	12,600.0	17,135.3	12,400.0	43.4	43.2	76.45	-4,570.1	-1,409.0	853.9	768.1	85.79	9.953		
17,300.0	12,600.0	17,235.3	12,400.0	44.0	43.8	76.45	-4,670.1	-1,408.0	853.8	766.8	87.02	9.812		
17,400.0	12,600.0	17,335.3	12,400.0	44.6	44.4	76.45	-4,770.1	-1,407.1	853.8	765.6	88.26	9.674		
17,500.0	12,600.0	17,435.3	12,400.0	45.2	45.1	76.45	-4,870.1	-1,406.1	853.8	764.3	89.51	9.539		
17,600.0	12,600.0	17,535.3	12,400.0	45.8	45.7	76.45	-4,970.1	-1,405.1	853.8	763.0	90.77	9.406		
17,700.0	12,600.0	17,635.3	12,400.0	46.4	46.3	76.45	-5,070.1	-1,404.1	853.7	761.7	92.03	9.277		
17,800.0	12,600.0	17,735.3	12,400.0	47.1	47.0	76.45	-5,170.1	-1,403.2	853.7	760.4	93.30	9.150		
17,900.0	12,600.0	17,835.3	12,400.0	47.7	47.6	76.45	-5,270.0	-1,402.2	853.7	759.1	94.58	9.026		
18,000.0	12,600.0	17,935.3	12,400.0	48.3	48.2	76.45	-5,370.0	-1,401.2	853.7	757.8	95.87	8.905		
18,100.0	12,600.0	18,035.3	12,400.0	49.0	48.9	76.45	-5,470.0	-1,400.3	853.6	756.5	97.16	8.786		
18,200.0	12,600.0	18,135.3	12,400.0	49.6	49.5	76.45	-5,570.0	-1,399.3	853.6	755.1	98.46	8.670		
18,300.0	12,600.0	18,235.3	12,400.0	50.3	50.2	76.45	-5,670.0	-1,398.3	853.6	753.8	99.76	8.556		
18,400.0	12,600.0	18,335.3	12,400.0	50.9	50.8	76.45	-5,770.0	-1,397.3	853.5	752.5	101.07	8.445		
18,500.0	12,600.0	18,435.3	12,400.0	51.6	51.5	76.45	-5,870.0	-1,396.4	853.5	751.1	102.39	8.336		
18,600.0	12,600.0	18,535.3	12,400.0	52.2	52.2	76.45	-5,970.0	-1,395.4	853.5	749.8	103.71	8.230		
18,700.0	12,600.0	18,635.3	12,400.0	52.9	52.8	76.45	-6,070.0	-1,394.4	853.5	748.4	105.03	8.126		
18,800.0	12,600.0	18,735.3	12,400.0	53.6	53.5	76.45	-6,170.0	-1,393.5	853.4	747.1	106.36	8.024		
18,900.0	12,600.0	18,835.3	12,400.0	54.2	54.2	76.45	-6,270.0	-1,392.5	853.4	745.7	107.70	7.924		
19,000.0	12,600.0	18,935.3	12,400.0	54.9	54.8	76.45	-6,370.0	-1,391.5	853.4	744.3	109.04	7.826		
19,100.0	12,600.0	19,035.3	12,400.0	55.6	55.5	76.44	-6,470.0	-1,390.5	853.4	743.0	110.38	7.731		
19,200.0	12,600.0	19,135.3	12,400.0	56.2	56.2	76.44	-6,570.0	-1,389.6	853.3	741.6	111.73	7.637		
19,300.0	12,600.0	19,235.3	12,400.0	56.9	56.9	76.44	-6,670.0	-1,388.6	853.3	740.2	113.08	7.546		
19,400.0	12,600.0	19,335.3	12,400.0	57.6	57.6	76.44	-6,770.0	-1,387.6	853.3	738.8	114.44	7.456		
19,500.0	12,600.0	19,435.3	12,400.0	58.3	58.2	76.44	-6,870.0	-1,386.7	853.3	737.5	115.80	7.368		
19,600.0	12,600.0	19,535.3	12,400.0	59.0	58.9	76.44	-6,970.0	-1,385.7	853.2	736.1	117.16	7.282		
19,700.0	12,600.0	19,635.3	12,400.0	59.6	59.6	76.44	-7,070.0	-1,384.7	853.2	734.7	118.53	7.198		
19,800.0	12,600.0	19,735.3	12,400.0	60.3	60.3	76.44	-7,170.0	-1,383.7	853.2	733.3	119.90	7.116		
19,900.0	12,600.0	19,835.3	12,400.0	61.0	61.0	76.44	-7,270.0	-1,382.8	853.1	731.9	121.28	7.035		
20,000.0	12,600.0	19,935.3	12,400.0	61.7	61.7	76.44	-7,370.0	-1,381.8	853.1	730.5	122.65	6.956		
20,100.0	12,600.0	20,035.3	12,400.0	62.4	62.4	76.44	-7,469.9	-1,380.8	853.1	729.1	124.03	6.878		
20,200.0	12,600.0	20,135.3	12,400.0	63.1	63.1	76.44	-7,569.9	-1,379.9	853.1	727.7	125.42	6.802		
20,300.0	12,600.0	20,235.3	12,400.0	63.8	63.8	76.44	-7,669.9	-1,378.9	853.0	726.2	126.80	6.727		
20,400.0	12,600.0	20,335.3	12,400.0	64.5	64.5	76.44	-7,769.9	-1,377.9	853.0	724.8	128.19	6.654		
20,500.0	12,600.0	20,435.3	12,400.0	65.2	65.2	76.44	-7,869.9	-1,376.9	853.0	723.4	129.58	6.583		
20,600.0	12,600.0	20,535.3	12,400.0	65.9	65.9	76.44	-7,969.9	-1,376.0	853.0	722.0	130.98	6.512		
20,700.0	12,600.0	20,635.3	12,400.0	66.6	66.6	76.44	-8,069.9	-1,375.0	852.9	720.6	132.37	6.443		
20,800.0	12,600.0	20,735.3	12,400.0	67.3	67.3	76.44	-8,169.9	-1,374.0	852.9	719.1	133.77	6.376		
20,900.0	12,600.0	20,835.3	12,400.0	68.0	68.0	76.44	-8,269.9	-1,373.1	852.9	717.7	135.17	6.310		
21,000.0	12,600.0	20,935.3	12,400.0	68.7	68.7	76.44	-8,369.9	-1,372.1	852.9	716.3	136.58	6.245		
21,100.0	12,600.0	21,035.3	12,400.0	69.4	69.4	76.44	-8,469.9	-1,371.1	852.8	714.8	137.98	6.181		
21,200.0	12,600.0	21,135.3	12,400.0	70.1	70.1	76.44	-8,569.9	-1,370.1	852.8	713.4	139.39	6.118		
21,300.0	12,600.0	21,235.3	12,400.0	70.8	70.8	76.44	-8,669.9	-1,369.2	852.8	712.0	140.80	6.057		
21,400.0	12,600.0	21,335.3	12,400.0	71.5	71.6	76.43	-8,769.9	-1,368.2	852.7	710.5	142.21	5.996		
21,500.0	12,600.0	21,435.3	12,400.0	72.2	72.3	76.43	-8,869.9	-1,367.2	852.7	709.1	143.63	5.937		
21,600.0	12,600.0	21,535.3	12,400.0	72.9	73.0	76.43	-8,969.9	-1,366.3	852.7	707.7	145.04	5.879		
21,700.0	12,600.0	21,635.3	12,400.0	73.7	73.7	76.43	-9,069.9	-1,365.3	852.7	706.2	146.46	5.822		
21,800.0	12,600.0	21,735.3	12,400.0	74.4	74.4	76.43	-9,169.9	-1,364.3	852.6	704.8	147.88	5.766		
21,900.0	12,600.0	21,835.3	12,400.0	75.1	75.1	76.43	-9,269.9	-1,363.3	852.6	703.3	149.30	5.711		
22,000.0	12,600.0	21,935.3	12,400.0	75.8	75.9	76.43	-9,369.9	-1,362.4	852.6	701.9	150.72	5.657		
22,100.0	12,600.0	22,035.3	12,400.0	76.5	76.6	76.43	-9,469.9	-1,361.4	852.6	700.4	152.15	5.603		

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *HENNIN FED COM #702H - Slot HENNIN FED COM #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	WELL @ 3220.0usft (Original Well Elev)
Reference Site:	HENNIN PROJECT	MD Reference:	WELL @ 3220.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*HENNIN FED COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: HENNIN PROJECT - *HENNIN FED COM #602H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
22,200.0	12,600.0	22,135.3	12,400.0	77.2	77.3	76.43	-9,569.8	-1,360.4	852.5	699.0	153.58	5.551		
22,300.0	12,600.0	22,235.3	12,400.0	78.0	78.0	76.43	-9,669.8	-1,359.5	852.5	697.5	155.00	5.500		
22,400.0	12,600.0	22,335.3	12,400.0	78.7	78.7	76.43	-9,769.8	-1,358.5	852.5	696.0	156.43	5.450		
22,500.0	12,600.0	22,435.3	12,400.0	79.4	79.5	76.43	-9,869.8	-1,357.5	852.5	694.6	157.86	5.400		
22,600.0	12,600.0	22,535.3	12,400.0	80.1	80.2	76.43	-9,969.8	-1,356.5	852.4	693.1	159.30	5.351		
22,700.0	12,600.0	22,635.3	12,400.0	80.8	80.9	76.43	-10,069.8	-1,355.6	852.4	691.7	160.73	5.303		
22,800.0	12,600.0	22,735.3	12,400.0	81.6	81.6	76.43	-10,169.8	-1,354.6	852.4	690.2	162.16	5.256		
22,900.0	12,600.0	22,835.3	12,400.0	82.3	82.4	76.43	-10,269.8	-1,353.6	852.3	688.7	163.60	5.210		
23,000.0	12,600.0	22,935.3	12,400.0	83.0	83.1	76.43	-10,369.8	-1,352.7	852.3	687.3	165.04	5.164		
23,100.0	12,600.0	23,035.3	12,400.0	83.7	83.8	76.43	-10,469.8	-1,351.7	852.3	685.8	166.48	5.120		
23,200.0	12,600.0	23,135.3	12,400.0	84.5	84.6	76.43	-10,569.8	-1,350.7	852.3	684.4	167.92	5.076		
23,300.0	12,600.0	23,235.3	12,400.0	85.2	85.3	76.43	-10,669.8	-1,349.7	852.2	682.9	169.36	5.032		
23,400.0	12,600.0	23,335.3	12,400.0	85.9	86.0	76.43	-10,769.8	-1,348.8	852.2	681.4	170.80	4.990		
23,481.2	12,600.0	23,416.5	12,400.0	86.5	86.6	76.43	-10,851.0	-1,348.0	852.2	680.2	171.97	4.955 ES, SF		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *HENNIN FED COM #702H - Slot HENNIN FED COM #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	WELL @ 3220.0usft (Original Well Elev)
Reference Site:	HENNIN PROJECT	MD Reference:	WELL @ 3220.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*HENNIN FED COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: HENNIN PROJECT - *HENNIN FED COM #701H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 MWD+IFR1+MS				Offset				Rule Assigned:				Offset Well Error: 3.0 usft		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
2,500.0	2,490.8	2,525.4	2,516.0	8.6	8.8	-15.13	138.9	-2,125.6	1,991.0	1,975.1	15.90	125.209		
2,600.0	2,589.8	2,623.8	2,613.4	8.9	9.1	-14.83	152.5	-2,123.8	1,976.3	1,960.0	16.38	120.647		
2,700.0	2,688.9	2,722.2	2,710.8	9.3	9.5	-14.53	166.0	-2,121.9	1,961.7	1,944.9	16.87	116.280		
2,800.0	2,787.9	2,820.6	2,808.3	9.7	9.8	-14.23	179.6	-2,120.0	1,947.2	1,929.8	17.37	112.105		
2,900.0	2,886.9	2,919.0	2,905.7	10.0	10.2	-13.92	193.2	-2,118.1	1,932.7	1,914.8	17.88	108.116		
3,000.0	2,985.9	3,017.4	3,003.1	10.4	10.6	-13.60	206.7	-2,116.2	1,918.2	1,899.8	18.39	104.305		
3,100.0	3,085.0	3,115.8	3,100.6	10.8	10.9	-13.29	220.3	-2,114.3	1,903.8	1,884.9	18.91	100.666		
3,200.0	3,184.0	3,214.2	3,198.0	11.1	11.3	-12.96	233.9	-2,112.5	1,889.5	1,870.0	19.44	97.192		
3,300.0	3,283.0	3,312.6	3,295.5	11.5	11.7	-12.64	247.4	-2,110.6	1,875.2	1,855.2	19.98	93.874		
3,400.0	3,382.0	3,410.9	3,392.9	11.9	12.1	-12.30	261.0	-2,108.7	1,861.0	1,840.5	20.52	90.705		
3,500.0	3,481.1	3,509.3	3,490.3	12.3	12.4	-11.96	274.5	-2,106.8	1,846.8	1,825.8	21.06	87.679		
3,600.0	3,580.1	3,607.7	3,587.8	12.7	12.8	-11.62	288.1	-2,104.9	1,832.8	1,811.1	21.62	84.787		
3,700.0	3,679.1	3,706.1	3,685.2	13.1	13.2	-11.27	301.7	-2,103.1	1,818.7	1,796.6	22.17	82.023		
3,800.0	3,778.2	3,804.5	3,782.6	13.5	13.6	-10.92	315.2	-2,101.2	1,804.8	1,782.1	22.74	79.381		
3,900.0	3,877.2	3,902.9	3,880.1	13.9	14.0	-10.56	328.8	-2,099.3	1,790.9	1,767.6	23.30	76.853		
4,000.0	3,976.2	4,001.3	3,977.5	14.3	14.4	-10.20	342.4	-2,097.4	1,777.1	1,753.2	23.87	74.434		
4,100.0	4,075.2	4,099.7	4,074.9	14.7	14.8	-9.82	355.9	-2,095.5	1,763.4	1,738.9	24.45	72.119		
4,200.0	4,174.3	4,198.1	4,172.4	15.1	15.2	-9.45	369.5	-2,093.6	1,749.7	1,724.7	25.03	69.901		
4,300.0	4,273.3	4,296.6	4,269.9	15.5	15.6	-9.07	383.0	-2,091.8	1,736.1	1,710.5	25.59	67.852		
4,400.0	4,372.3	4,395.7	4,368.2	15.9	16.0	-8.72	395.3	-2,090.1	1,722.6	1,696.4	26.17	65.820		
4,500.0	4,471.3	4,495.1	4,467.0	16.3	16.4	-8.43	405.9	-2,088.6	1,709.1	1,682.3	26.75	63.878		
4,600.0	4,570.4	4,594.7	4,566.3	16.7	16.7	-8.19	414.9	-2,087.3	1,695.5	1,668.2	27.34	62.022		
4,700.0	4,669.4	4,694.6	4,665.8	17.2	17.1	-8.01	422.2	-2,086.3	1,682.0	1,654.1	27.92	60.248		
4,800.0	4,768.4	4,794.5	4,765.7	17.6	17.4	-7.88	427.8	-2,085.6	1,668.4	1,639.9	28.49	58.551		
4,900.0	4,867.5	4,894.6	4,865.7	18.0	17.8	-7.81	431.6	-2,085.0	1,654.7	1,625.6	29.07	56.925		
5,000.0	4,966.5	4,994.7	4,965.7	18.4	18.0	-7.80	433.7	-2,084.7	1,641.0	1,611.4	29.64	55.367		
5,100.0	5,065.5	5,094.5	5,065.5	18.8	18.1	-7.85	434.1	-2,084.7	1,627.2	1,597.0	30.18	53.914		
5,200.0	5,164.5	5,193.5	5,164.5	19.2	18.2	-7.92	434.1	-2,084.7	1,613.4	1,582.7	30.75	52.473		
5,300.0	5,263.6	5,292.5	5,263.6	19.6	18.3	-7.99	434.1	-2,084.7	1,599.7	1,568.3	31.32	51.079		
5,400.0	5,362.6	5,391.6	5,362.6	20.1	18.3	-8.06	434.1	-2,084.7	1,585.9	1,554.0	31.89	49.734		
5,500.0	5,461.6	5,490.6	5,461.6	20.5	18.4	-8.13	434.1	-2,084.7	1,572.1	1,539.6	32.46	48.434		
5,600.0	5,560.6	5,589.6	5,560.6	20.9	18.4	-8.20	434.1	-2,084.7	1,558.3	1,525.3	33.03	47.177		
5,700.0	5,659.7	5,688.6	5,659.7	21.3	18.5	-8.28	434.1	-2,084.7	1,544.5	1,510.9	33.60	45.962		
5,800.0	5,758.7	5,787.7	5,758.7	21.7	18.6	-8.35	434.1	-2,084.7	1,530.8	1,496.7	34.16	44.817		
5,900.0	5,857.9	5,886.9	5,857.9	22.1	18.6	-8.40	434.1	-2,084.7	1,518.4	1,483.7	34.72	43.730		
6,000.0	5,957.3	5,986.3	5,957.3	22.5	18.7	-8.44	434.1	-2,084.7	1,507.7	1,472.4	35.27	42.746		
6,100.0	6,056.9	6,085.9	6,056.9	22.9	18.7	-8.48	434.1	-2,084.7	1,498.7	1,462.9	35.80	41.860		
6,200.0	6,156.6	6,185.6	6,156.6	23.3	18.8	-8.51	434.1	-2,084.7	1,491.5	1,455.2	36.31	41.071		
6,300.0	6,256.5	6,285.5	6,256.5	23.6	18.9	-8.53	434.1	-2,084.7	1,485.9	1,449.1	36.80	40.378		
6,400.0	6,356.4	6,385.4	6,356.4	24.0	18.9	-8.55	434.1	-2,084.7	1,482.1	1,444.9	37.25	39.786		
6,500.0	6,456.4	6,485.4	6,456.4	24.2	19.0	-8.56	434.1	-2,084.7	1,480.0	1,442.4	37.65	39.306		
6,600.0	6,556.4	6,585.4	6,556.4	24.3	19.0	-80.86	434.1	-2,084.7	1,479.6	1,441.8	37.83	39.107		
6,700.0	6,656.4	6,685.4	6,656.4	24.4	19.1	-80.86	434.1	-2,084.7	1,479.6	1,441.7	37.94	38.997		
6,800.0	6,756.4	6,785.4	6,756.4	24.4	19.2	-80.86	434.1	-2,084.7	1,479.6	1,441.5	38.05	38.888		
6,900.0	6,856.4	6,885.4	6,856.4	24.4	19.2	-80.86	434.1	-2,084.7	1,479.6	1,441.4	38.15	38.779		
7,000.0	6,956.4	6,985.4	6,956.4	24.5	19.3	-80.86	434.1	-2,084.7	1,479.6	1,441.3	38.26	38.670		
7,100.0	7,056.4	7,085.4	7,056.4	24.5	19.3	-80.86	434.1	-2,084.7	1,479.6	1,441.2	38.37	38.562		
7,200.0	7,156.4	7,185.4	7,156.4	24.6	19.4	-80.86	434.1	-2,084.7	1,479.6	1,441.1	38.48	38.454		
7,300.0	7,256.4	7,285.4	7,256.4	24.6	19.5	-80.86	434.1	-2,084.7	1,479.6	1,441.0	38.59	38.346		
7,400.0	7,356.4	7,385.4	7,356.4	24.6	19.5	-80.86	434.1	-2,084.7	1,479.6	1,440.9	38.69	38.238		
7,500.0	7,456.4	7,485.4	7,456.4	24.7	19.6	-80.86	434.1	-2,084.7	1,479.6	1,440.8	38.80	38.130		

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *HENNIN FED COM #702H - Slot HENNIN FED COM #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	WELL @ 3220.0usft (Original Well Elev)
Reference Site:	HENNIN PROJECT	MD Reference:	WELL @ 3220.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*HENNIN FED COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: HENNIN PROJECT - *HENNIN FED COM #701H - OWB - PWP0											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)		
7,600.0	7,556.4	7,585.4	7,556.4	24.7	19.7	-80.86	434.1	-2,084.7	1,479.6	1,440.7	38.91	38.023
7,700.0	7,656.4	7,685.4	7,656.4	24.8	19.7	-80.86	434.1	-2,084.7	1,479.6	1,440.6	39.02	37.916
7,800.0	7,756.4	7,785.4	7,756.4	24.8	19.8	-80.86	434.1	-2,084.7	1,479.6	1,440.5	39.13	37.809
7,900.0	7,856.4	7,885.4	7,856.4	24.8	19.8	-80.86	434.1	-2,084.7	1,479.6	1,440.3	39.24	37.702
8,000.0	7,956.4	7,985.4	7,956.4	24.9	19.9	-80.86	434.1	-2,084.7	1,479.6	1,440.2	39.35	37.596
8,100.0	8,056.4	8,085.4	8,056.4	24.9	20.0	-80.86	434.1	-2,084.7	1,479.6	1,440.1	39.47	37.490
8,200.0	8,156.4	8,185.4	8,156.4	25.0	20.0	-80.86	434.1	-2,084.7	1,479.6	1,440.0	39.58	37.384
8,300.0	8,256.4	8,285.4	8,256.4	25.0	20.1	-80.86	434.1	-2,084.7	1,479.6	1,439.9	39.69	37.279
8,400.0	8,356.4	8,385.4	8,356.4	25.0	20.2	-80.86	434.1	-2,084.7	1,479.6	1,439.8	39.80	37.174
8,500.0	8,456.4	8,485.4	8,456.4	25.1	20.2	-80.86	434.1	-2,084.7	1,479.6	1,439.7	39.91	37.069
8,600.0	8,556.4	8,585.4	8,556.4	25.1	20.3	-80.86	434.1	-2,084.7	1,479.6	1,439.6	40.03	36.964
8,700.0	8,656.4	8,685.4	8,656.4	25.2	20.4	-80.86	434.1	-2,084.7	1,479.6	1,439.5	40.14	36.860
8,800.0	8,756.4	8,785.4	8,756.4	25.2	20.4	-80.86	434.1	-2,084.7	1,479.6	1,439.3	40.25	36.756
8,900.0	8,856.4	8,885.4	8,856.4	25.3	20.5	-80.86	434.1	-2,084.7	1,479.6	1,439.2	40.37	36.652
9,000.0	8,956.4	8,985.4	8,956.4	25.3	20.5	-80.86	434.1	-2,084.7	1,479.6	1,439.1	40.48	36.549
9,100.0	9,056.4	9,085.4	9,056.4	25.3	20.6	-80.86	434.1	-2,084.7	1,479.6	1,439.0	40.60	36.445
9,200.0	9,156.4	9,185.4	9,156.4	25.4	20.7	-80.86	434.1	-2,084.7	1,479.6	1,438.9	40.71	36.343
9,300.0	9,256.4	9,285.4	9,256.4	25.4	20.7	-80.86	434.1	-2,084.7	1,479.6	1,438.8	40.83	36.240
9,400.0	9,356.4	9,385.4	9,356.4	25.5	20.8	-80.86	434.1	-2,084.7	1,479.6	1,438.6	40.94	36.138
9,500.0	9,456.4	9,485.4	9,456.4	25.5	20.9	-80.86	434.1	-2,084.7	1,479.6	1,438.5	41.06	36.036
9,600.0	9,556.4	9,585.4	9,556.4	25.6	20.9	-80.86	434.1	-2,084.7	1,479.6	1,438.4	41.18	35.934
9,700.0	9,656.4	9,685.4	9,656.4	25.6	21.0	-80.86	434.1	-2,084.7	1,479.6	1,438.3	41.29	35.833
9,800.0	9,756.4	9,785.4	9,756.4	25.6	21.1	-80.86	434.1	-2,084.7	1,479.6	1,438.2	41.41	35.732
9,900.0	9,856.4	9,885.4	9,856.4	25.7	21.1	-80.86	434.1	-2,084.7	1,479.6	1,438.1	41.53	35.631
10,000.0	9,956.4	9,985.4	9,956.4	25.7	21.2	-80.86	434.1	-2,084.7	1,479.6	1,437.9	41.64	35.530
10,100.0	10,056.4	10,085.4	10,056.4	25.8	21.3	-80.86	434.1	-2,084.7	1,479.6	1,437.8	41.76	35.430
10,200.0	10,156.4	10,185.4	10,156.4	25.8	21.3	-80.86	434.1	-2,084.7	1,479.6	1,437.7	41.88	35.331
10,300.0	10,256.4	10,285.4	10,256.4	25.9	21.4	-80.86	434.1	-2,084.7	1,479.6	1,437.6	42.00	35.231
10,400.0	10,356.4	10,385.4	10,356.4	25.9	21.5	-80.86	434.1	-2,084.7	1,479.6	1,437.5	42.12	35.132
10,500.0	10,456.4	10,485.4	10,456.4	26.0	21.5	-80.86	434.1	-2,084.7	1,479.6	1,437.4	42.23	35.033
10,600.0	10,556.4	10,585.4	10,556.4	26.0	21.6	-80.86	434.1	-2,084.7	1,479.6	1,437.2	42.35	34.935
10,700.0	10,656.4	10,685.4	10,656.4	26.0	21.7	-80.86	434.1	-2,084.7	1,479.6	1,437.1	42.47	34.836
10,800.0	10,756.4	10,785.4	10,756.4	26.1	21.7	-80.86	434.1	-2,084.7	1,479.6	1,437.0	42.59	34.739
10,900.0	10,856.4	10,885.4	10,856.4	26.1	21.8	-80.86	434.1	-2,084.7	1,479.6	1,436.9	42.71	34.641
11,000.0	10,956.4	10,985.4	10,956.4	26.2	21.9	-80.86	434.1	-2,084.7	1,479.6	1,436.8	42.83	34.544
11,100.0	11,056.4	11,085.4	11,056.4	26.2	21.9	-80.86	434.1	-2,084.7	1,479.6	1,436.6	42.95	34.447
11,200.0	11,156.4	11,185.4	11,156.4	26.3	22.0	-80.86	434.1	-2,084.7	1,479.6	1,436.5	43.07	34.350
11,300.0	11,256.4	11,285.4	11,256.4	26.3	22.1	-80.86	434.1	-2,084.7	1,479.6	1,436.4	43.19	34.254
11,400.0	11,356.4	11,385.4	11,356.4	26.4	22.1	-80.86	434.1	-2,084.7	1,479.6	1,436.3	43.32	34.158
11,500.0	11,456.4	11,485.4	11,456.4	26.4	22.2	-80.86	434.1	-2,084.7	1,479.6	1,436.2	43.44	34.063
11,600.0	11,556.4	11,585.4	11,556.4	26.5	22.3	-80.86	434.1	-2,084.7	1,479.6	1,436.0	43.56	33.967
11,700.0	11,656.4	11,685.4	11,656.4	26.5	22.3	-80.86	434.1	-2,084.7	1,479.6	1,435.9	43.68	33.872
11,800.0	11,756.4	11,785.4	11,756.4	26.6	22.4	-80.86	434.1	-2,084.7	1,479.6	1,435.8	43.80	33.778
11,900.0	11,856.4	11,885.4	11,856.4	26.6	22.5	-80.86	434.1	-2,084.7	1,479.6	1,435.7	43.93	33.684
12,000.0	11,956.4	11,985.4	11,956.4	26.7	22.5	-80.86	434.1	-2,084.7	1,479.6	1,435.5	44.05	33.590
12,100.0	12,056.4	12,107.8	12,078.8	26.7	22.5	-80.95	431.8	-2,084.7	1,479.4	1,435.3	44.11	33.538
12,200.0	12,156.3	12,274.5	12,240.2	26.7	22.1	98.36	393.0	-2,084.3	1,475.8	1,431.9	43.91	33.611
12,300.0	12,254.6	12,423.2	12,369.6	26.6	21.7	97.02	320.4	-2,083.6	1,471.1	1,427.5	43.59	33.746
12,400.0	12,347.1	12,557.0	12,466.6	26.4	21.4	95.64	228.7	-2,082.7	1,466.7	1,423.4	43.29	33.881
12,500.0	12,429.8	12,678.7	12,534.2	26.3	21.2	94.27	127.8	-2,081.7	1,463.2	1,420.1	43.04	33.997
12,600.0	12,499.1	12,791.0	12,576.4	26.2	21.1	92.94	23.9	-2,080.7	1,460.6	1,417.8	42.87	34.070

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *HENNIN FED COM #702H - Slot HENNIN FED COM #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	WELL @ 3220.0usft (Original Well Elev)
Reference Site:	HENNIN PROJECT	MD Reference:	WELL @ 3220.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*HENNIN FED COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: HENNIN PROJECT - *HENNIN FED COM #701H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
12,700.0	12,551.9	12,896.0	12,596.8	26.1	21.0	91.66	-78.9	-2,079.7	1,459.1	1,416.3	42.81	34.080		
12,800.0	12,585.9	12,994.7	12,600.0	26.1	21.0	90.53	-177.5	-2,078.7	1,458.4	1,415.6	42.87	34.020		
12,900.0	12,599.7	13,093.5	12,600.0	26.1	21.0	90.01	-276.4	-2,077.8	1,458.3	1,415.3	42.99	33.921		
13,000.0	12,600.0	13,193.5	12,600.0	26.2	21.1	90.00	-376.3	-2,076.8	1,458.3	1,415.2	43.15	33.800		
13,100.0	12,600.0	13,293.5	12,600.0	26.3	21.1	90.00	-476.3	-2,075.8	1,458.3	1,414.9	43.36	33.634		
13,200.0	12,600.0	13,393.5	12,600.0	26.4	21.1	90.00	-576.3	-2,074.9	1,458.3	1,414.6	43.62	33.430		
13,300.0	12,600.0	13,493.5	12,600.0	26.6	21.1	90.00	-676.3	-2,073.9	1,458.2	1,414.3	43.94	33.190		
13,400.0	12,600.0	13,593.5	12,600.0	26.7	21.2	90.00	-776.3	-2,072.9	1,458.2	1,413.9	44.30	32.917		
13,500.0	12,600.0	13,693.5	12,600.0	26.9	21.2	90.00	-876.3	-2,072.0	1,458.2	1,413.5	44.71	32.613		
13,600.0	12,600.0	13,793.5	12,600.0	27.1	21.3	90.00	-976.3	-2,071.0	1,458.2	1,413.0	45.17	32.280		
13,700.0	12,600.0	13,893.5	12,600.0	27.3	21.3	90.00	-1,076.3	-2,070.0	1,458.1	1,412.5	45.68	31.923		
13,800.0	12,600.0	13,993.5	12,600.0	27.6	21.4	90.00	-1,176.3	-2,069.1	1,458.1	1,411.9	46.23	31.543		
13,900.0	12,600.0	14,093.5	12,600.0	27.8	21.4	90.00	-1,276.3	-2,068.1	1,458.1	1,411.3	46.82	31.144		
14,000.0	12,600.0	14,193.5	12,600.0	28.1	21.5	90.00	-1,376.3	-2,067.1	1,458.1	1,410.6	47.45	30.729		
14,100.0	12,600.0	14,293.5	12,600.0	28.4	21.6	90.00	-1,476.3	-2,066.2	1,458.0	1,409.9	48.12	30.299		
14,200.0	12,600.0	14,393.5	12,600.0	28.7	21.7	90.00	-1,576.3	-2,065.2	1,458.0	1,409.2	48.83	29.858		
14,300.0	12,600.0	14,493.5	12,600.0	29.0	21.9	90.00	-1,676.3	-2,064.2	1,458.0	1,408.4	49.58	29.409		
14,400.0	12,600.0	14,593.5	12,600.0	29.4	22.0	90.00	-1,776.3	-2,063.2	1,458.0	1,407.6	50.36	28.953		
14,500.0	12,600.0	14,693.5	12,600.0	29.7	22.3	90.00	-1,876.3	-2,062.3	1,457.9	1,406.8	51.17	28.493		
14,600.0	12,600.0	14,793.5	12,600.0	30.1	22.6	90.00	-1,976.3	-2,061.3	1,457.9	1,405.9	52.01	28.030		
14,700.0	12,600.0	14,893.5	12,600.0	30.5	23.1	90.00	-2,076.3	-2,060.3	1,457.9	1,405.0	52.89	27.566		
14,800.0	12,600.0	14,993.5	12,600.0	30.9	23.5	90.00	-2,176.3	-2,059.4	1,457.9	1,404.1	53.79	27.104		
14,900.0	12,600.0	15,093.5	12,600.0	31.3	24.0	90.00	-2,276.3	-2,058.4	1,457.8	1,403.1	54.72	26.643		
15,000.0	12,600.0	15,193.5	12,600.0	31.7	24.5	90.00	-2,376.2	-2,057.4	1,457.8	1,402.1	55.67	26.186		
15,100.0	12,600.0	15,293.5	12,600.0	32.1	25.1	90.00	-2,476.2	-2,056.5	1,457.8	1,401.1	56.65	25.733		
15,200.0	12,600.0	15,393.5	12,600.0	32.6	25.6	90.00	-2,576.2	-2,055.5	1,457.8	1,400.1	57.65	25.286		
15,300.0	12,600.0	15,493.5	12,600.0	33.0	26.2	90.00	-2,676.2	-2,054.5	1,457.7	1,399.1	58.67	24.844		
15,400.0	12,600.0	15,593.5	12,600.0	33.5	26.8	90.00	-2,776.2	-2,053.5	1,457.7	1,398.0	59.72	24.410		
15,500.0	12,600.0	15,693.5	12,600.0	34.0	27.4	90.00	-2,876.2	-2,052.6	1,457.7	1,396.9	60.78	23.982		
15,600.0	12,600.0	15,793.5	12,600.0	34.5	28.0	90.00	-2,976.2	-2,051.6	1,457.7	1,395.8	61.86	23.562		
15,700.0	12,600.0	15,893.5	12,600.0	35.0	28.6	90.00	-3,076.2	-2,050.6	1,457.6	1,394.7	62.96	23.150		
15,800.0	12,600.0	15,993.5	12,600.0	35.5	29.3	90.00	-3,176.2	-2,049.7	1,457.6	1,393.5	64.08	22.747		
15,900.0	12,600.0	16,093.5	12,600.0	36.0	29.9	90.00	-3,276.2	-2,048.7	1,457.6	1,392.4	65.21	22.351		
16,000.0	12,600.0	16,193.5	12,600.0	36.5	30.5	90.00	-3,376.2	-2,047.7	1,457.6	1,391.2	66.36	21.965		
16,100.0	12,600.0	16,293.5	12,600.0	37.0	31.2	90.00	-3,476.2	-2,046.8	1,457.5	1,390.0	67.52	21.587		
16,200.0	12,600.0	16,393.5	12,600.0	37.6	31.8	90.00	-3,576.2	-2,045.8	1,457.5	1,388.8	68.70	21.217		
16,300.0	12,600.0	16,493.5	12,600.0	38.1	32.5	90.00	-3,676.2	-2,044.8	1,457.5	1,387.6	69.88	20.856		
16,400.0	12,600.0	16,593.5	12,600.0	38.7	33.1	90.00	-3,776.2	-2,043.9	1,457.4	1,386.4	71.08	20.504		
16,500.0	12,600.0	16,693.5	12,600.0	39.2	33.8	90.00	-3,876.2	-2,042.9	1,457.4	1,385.1	72.29	20.160		
16,600.0	12,600.0	16,793.5	12,600.0	39.8	34.5	90.00	-3,976.2	-2,041.9	1,457.4	1,383.9	73.52	19.824		
16,700.0	12,600.0	16,893.5	12,600.0	40.4	35.1	90.00	-4,076.2	-2,040.9	1,457.4	1,382.6	74.75	19.497		
16,800.0	12,600.0	16,993.5	12,600.0	41.0	35.8	90.00	-4,176.2	-2,040.0	1,457.3	1,381.4	75.99	19.178		
16,900.0	12,600.0	17,093.5	12,600.0	41.6	36.5	90.00	-4,276.2	-2,039.0	1,457.3	1,380.1	77.24	18.866		
17,000.0	12,600.0	17,193.5	12,600.0	42.2	37.2	90.00	-4,376.2	-2,038.0	1,457.3	1,378.8	78.51	18.563		
17,100.0	12,600.0	17,293.5	12,600.0	42.8	37.9	90.00	-4,476.2	-2,037.1	1,457.3	1,377.5	79.78	18.267		
17,200.0	12,600.0	17,393.5	12,600.0	43.4	38.6	90.00	-4,576.1	-2,036.1	1,457.2	1,376.2	81.05	17.979		
17,300.0	12,600.0	17,493.5	12,600.0	44.0	39.3	90.00	-4,676.1	-2,035.1	1,457.2	1,374.9	82.34	17.698		
17,400.0	12,600.0	17,593.5	12,600.0	44.6	40.0	90.00	-4,776.1	-2,034.2	1,457.2	1,373.6	83.63	17.424		
17,500.0	12,600.0	17,693.5	12,600.0	45.2	40.7	90.00	-4,876.1	-2,033.2	1,457.2	1,372.2	84.93	17.157		
17,600.0	12,600.0	17,793.5	12,600.0	45.8	41.4	90.00	-4,976.1	-2,032.2	1,457.1	1,370.9	86.24	16.897		
17,700.0	12,600.0	17,893.5	12,600.0	46.4	42.1	90.00	-5,076.1	-2,031.3	1,457.1	1,369.6	87.55	16.643		

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *HENNIN FED COM #702H - Slot HENNIN FED COM #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	WELL @ 3220.0usft (Original Well Elev)
Reference Site:	HENNIN PROJECT	MD Reference:	WELL @ 3220.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*HENNIN FED COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: HENNIN PROJECT - *HENNIN FED COM #701H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
17,800.0	12,600.0	17,993.5	12,600.0	47.1	42.8	90.00	-5,176.1	-2,030.3	1,457.1	1,368.2	88.87	16.395	
17,900.0	12,600.0	18,093.5	12,600.0	47.7	43.5	90.00	-5,276.1	-2,029.3	1,457.1	1,366.9	90.20	16.154	
18,000.0	12,600.0	18,193.5	12,600.0	48.3	44.2	90.00	-5,376.1	-2,028.3	1,457.0	1,365.5	91.53	15.919	
18,100.0	12,600.0	18,293.5	12,600.0	49.0	44.9	90.00	-5,476.1	-2,027.4	1,457.0	1,364.1	92.87	15.690	
18,200.0	12,600.0	18,393.5	12,600.0	49.6	45.6	90.00	-5,576.1	-2,026.4	1,457.0	1,362.8	94.21	15.466	
18,300.0	12,600.0	18,493.5	12,600.0	50.3	46.3	90.00	-5,676.1	-2,025.4	1,457.0	1,361.4	95.55	15.248	
18,400.0	12,600.0	18,593.5	12,600.0	50.9	47.0	90.00	-5,776.1	-2,024.5	1,456.9	1,360.0	96.90	15.035	
18,500.0	12,600.0	18,693.5	12,600.0	51.6	47.7	90.00	-5,876.1	-2,023.5	1,456.9	1,358.7	98.26	14.827	
18,600.0	12,600.0	18,793.5	12,600.0	52.2	48.5	90.00	-5,976.1	-2,022.5	1,456.9	1,357.3	99.62	14.624	
18,700.0	12,600.0	18,893.5	12,600.0	52.9	49.2	90.00	-6,076.1	-2,021.6	1,456.9	1,355.9	100.99	14.426	
18,800.0	12,600.0	18,993.5	12,600.0	53.6	49.9	90.00	-6,176.1	-2,020.6	1,456.8	1,354.5	102.35	14.233	
18,900.0	12,600.0	19,093.5	12,600.0	54.2	50.6	90.00	-6,276.1	-2,019.6	1,456.8	1,353.1	103.73	14.045	
19,000.0	12,600.0	19,193.5	12,600.0	54.9	51.4	90.00	-6,376.1	-2,018.6	1,456.8	1,351.7	105.10	13.861	
19,100.0	12,600.0	19,293.5	12,600.0	55.6	52.1	90.00	-6,476.1	-2,017.7	1,456.8	1,350.3	106.48	13.681	
19,200.0	12,600.0	19,393.5	12,600.0	56.2	52.8	90.00	-6,576.1	-2,016.7	1,456.7	1,348.9	107.86	13.505	
19,300.0	12,600.0	19,493.5	12,600.0	56.9	53.5	90.00	-6,676.0	-2,015.7	1,456.7	1,347.5	109.25	13.334	
19,400.0	12,600.0	19,593.5	12,600.0	57.6	54.3	90.00	-6,776.0	-2,014.8	1,456.7	1,346.0	110.64	13.166	
19,500.0	12,600.0	19,693.5	12,600.0	58.3	55.0	90.00	-6,876.0	-2,013.8	1,456.7	1,344.6	112.03	13.002	
19,600.0	12,600.0	19,793.5	12,600.0	59.0	55.7	90.00	-6,976.0	-2,012.8	1,456.6	1,343.2	113.43	12.842	
19,700.0	12,600.0	19,893.5	12,600.0	59.6	56.4	90.00	-7,076.0	-2,011.9	1,456.6	1,341.8	114.83	12.685	
19,800.0	12,600.0	19,993.5	12,600.0	60.3	57.2	90.00	-7,176.0	-2,010.9	1,456.6	1,340.4	116.23	12.532	
19,900.0	12,600.0	20,093.5	12,600.0	61.0	57.9	90.00	-7,276.0	-2,009.9	1,456.6	1,338.9	117.63	12.383	
20,000.0	12,600.0	20,193.5	12,600.0	61.7	58.6	90.00	-7,376.0	-2,009.0	1,456.5	1,337.5	119.04	12.236	
20,100.0	12,600.0	20,293.5	12,600.0	62.4	59.4	90.00	-7,476.0	-2,008.0	1,456.5	1,336.1	120.44	12.093	
20,200.0	12,600.0	20,393.5	12,600.0	63.1	60.1	90.00	-7,576.0	-2,007.0	1,456.5	1,334.6	121.86	11.953	
20,300.0	12,600.0	20,493.5	12,600.0	63.8	60.8	90.00	-7,676.0	-2,006.0	1,456.5	1,333.2	123.27	11.815	
20,400.0	12,600.0	20,593.5	12,600.0	64.5	61.6	90.00	-7,776.0	-2,005.1	1,456.4	1,331.7	124.68	11.681	
20,500.0	12,600.0	20,693.5	12,600.0	65.2	62.3	90.00	-7,876.0	-2,004.1	1,456.4	1,330.3	126.10	11.549	
20,600.0	12,600.0	20,793.5	12,600.0	65.9	63.1	90.00	-7,976.0	-2,003.1	1,456.4	1,328.9	127.52	11.421	
20,700.0	12,600.0	20,893.5	12,600.0	66.6	63.8	90.00	-8,076.0	-2,002.2	1,456.4	1,327.4	128.94	11.295	
20,800.0	12,600.0	20,993.5	12,600.0	67.3	64.5	90.00	-8,176.0	-2,001.2	1,456.3	1,326.0	130.37	11.171	
20,900.0	12,600.0	21,093.5	12,600.0	68.0	65.3	90.00	-8,276.0	-2,000.2	1,456.3	1,324.5	131.79	11.050	
21,000.0	12,600.0	21,193.5	12,600.0	68.7	66.0	90.00	-8,376.0	-1,999.3	1,456.3	1,323.1	133.22	10.932	
21,100.0	12,600.0	21,293.5	12,600.0	69.4	66.8	90.00	-8,476.0	-1,998.3	1,456.2	1,321.6	134.65	10.815	
21,200.0	12,600.0	21,393.5	12,600.0	70.1	67.5	90.00	-8,576.0	-1,997.3	1,456.2	1,320.1	136.08	10.701	
21,300.0	12,600.0	21,493.5	12,600.0	70.8	68.2	90.00	-8,676.0	-1,996.4	1,456.2	1,318.7	137.51	10.590	
21,400.0	12,600.0	21,593.5	12,600.0	71.5	69.0	90.00	-8,775.9	-1,995.4	1,456.2	1,317.2	138.94	10.480	
21,500.0	12,600.0	21,693.5	12,600.0	72.2	69.7	90.00	-8,875.9	-1,994.4	1,456.1	1,315.8	140.38	10.373	
21,600.0	12,600.0	21,793.5	12,600.0	72.9	70.5	90.00	-8,975.9	-1,993.4	1,456.1	1,314.3	141.81	10.268	
21,700.0	12,600.0	21,893.5	12,600.0	73.7	71.2	90.00	-9,075.9	-1,992.5	1,456.1	1,312.8	143.25	10.165	
21,800.0	12,600.0	21,993.5	12,600.0	74.4	72.0	90.00	-9,175.9	-1,991.5	1,456.1	1,311.4	144.69	10.063	
21,900.0	12,600.0	22,093.5	12,600.0	75.1	72.7	90.00	-9,275.9	-1,990.5	1,456.0	1,309.9	146.13	9.964	
22,000.0	12,600.0	22,193.5	12,600.0	75.8	73.4	90.00	-9,375.9	-1,989.6	1,456.0	1,308.4	147.57	9.866	
22,100.0	12,600.0	22,293.5	12,600.0	76.5	74.2	90.00	-9,475.9	-1,988.6	1,456.0	1,307.0	149.02	9.771	
22,200.0	12,600.0	22,393.5	12,600.0	77.2	74.9	90.00	-9,575.9	-1,987.6	1,456.0	1,305.5	150.46	9.677	
22,300.0	12,600.0	22,493.5	12,600.0	78.0	75.7	90.00	-9,675.9	-1,986.7	1,455.9	1,304.0	151.91	9.584	
22,400.0	12,600.0	22,593.5	12,600.0	78.7	76.4	90.00	-9,775.9	-1,985.7	1,455.9	1,302.6	153.36	9.494	
22,500.0	12,600.0	22,693.5	12,600.0	79.4	77.2	90.00	-9,875.9	-1,984.7	1,455.9	1,301.1	154.80	9.405	
22,600.0	12,600.0	22,793.5	12,600.0	80.1	77.9	90.00	-9,975.9	-1,983.7	1,455.9	1,299.6	156.25	9.317	
22,700.0	12,600.0	22,893.5	12,600.0	80.8	78.7	90.00	-10,075.9	-1,982.8	1,455.8	1,298.1	157.70	9.231	
22,800.0	12,600.0	22,993.5	12,600.0	81.6	79.4	90.00	-10,175.9	-1,981.8	1,455.8	1,296.7	159.16	9.147	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *HENNIN FED COM #702H - Slot HENNIN FED COM #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	WELL @ 3220.0usft (Original Well Elev)
Reference Site:	HENNIN PROJECT	MD Reference:	WELL @ 3220.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*HENNIN FED COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: HENNIN PROJECT - *HENNIN FED COM #701H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
22,900.0	12,600.0	23,093.5	12,600.0	82.3	80.2	90.00	-10,275.9	-1,980.8	1,455.8	1,295.2	160.61	9.064		
23,000.0	12,600.0	23,193.5	12,600.0	83.0	80.9	90.00	-10,375.9	-1,979.9	1,455.8	1,293.7	162.06	8.983		
23,100.0	12,600.0	23,293.5	12,600.0	83.7	81.7	90.00	-10,475.9	-1,978.9	1,455.7	1,292.2	163.52	8.903		
23,200.0	12,600.0	23,393.5	12,600.0	84.5	82.4	90.00	-10,575.9	-1,977.9	1,455.7	1,290.7	164.97	8.824		
23,300.0	12,600.0	23,493.5	12,600.0	85.2	83.2	90.00	-10,675.9	-1,977.0	1,455.7	1,289.3	166.43	8.747		
23,400.0	12,600.0	23,593.5	12,600.0	85.9	83.9	90.00	-10,775.9	-1,976.0	1,455.7	1,287.8	167.88	8.671		
23,481.2	12,600.0	23,674.8	12,600.0	86.5	84.5	90.00	-10,857.1	-1,975.2	1,455.6	1,286.6	169.07	8.610 CC, ES, SF		

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *HENNIN FED COM #702H - Slot HENNIN FED COM #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	WELL @ 3220.0usft (Original Well Elev)
Reference Site:	HENNIN PROJECT	MD Reference:	WELL @ 3220.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*HENNIN FED COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: HENNIN PROJECT - *HENNIN FED COM #703H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum		Separation		Warning	
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore Centre	Between	Between	Separation	Factor		
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses			
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
0.0	0.0	0.0	0.0	3.0	3.0	89.62	0.2	29.9	29.9	23.5	6.43	4.651	
100.0	100.0	100.0	100.0	3.2	3.2	89.62	0.2	29.9	29.9	23.0	6.89	4.338	
200.0	200.0	200.0	200.0	3.5	3.5	89.62	0.2	29.9	29.9	22.6	7.33	4.080	
300.0	300.0	300.0	300.0	3.7	3.7	89.62	0.2	29.9	29.9	22.2	7.74	3.862	
400.0	400.0	400.0	400.0	3.9	3.9	89.62	0.2	29.9	29.9	21.8	8.14	3.675	
500.0	500.0	500.0	500.0	4.1	4.1	89.62	0.2	29.9	29.9	21.4	8.51	3.512	
600.0	600.0	600.0	600.0	4.2	4.2	89.62	0.2	29.9	29.9	21.0	8.88	3.368	
700.0	700.0	700.0	700.0	4.4	4.4	89.62	0.2	29.9	29.9	20.7	9.23	3.240	
800.0	800.0	800.0	800.0	4.6	4.6	89.62	0.2	29.9	29.9	20.3	9.57	3.124	
900.0	900.0	900.0	900.0	4.8	4.8	89.62	0.2	29.9	29.9	20.0	9.90	3.020	
1,000.0	1,000.0	1,000.0	1,000.0	4.9	4.9	89.62	0.2	29.9	29.9	19.7	10.22	2.924	
1,100.0	1,100.0	1,100.0	1,100.0	5.1	5.1	89.62	0.2	29.9	29.9	19.4	10.54	2.837	
1,200.0	1,200.0	1,200.0	1,200.0	5.2	5.2	89.62	0.2	29.9	29.9	19.1	10.85	2.756	CC, ES, SF
1,300.0	1,300.0	1,299.3	1,299.3	5.4	5.4	161.49	0.8	31.0	32.3	21.1	11.20	2.882	
1,400.0	1,399.9	1,398.2	1,398.1	5.6	5.6	160.51	2.8	34.4	39.4	27.8	11.55	3.410	
1,500.0	1,499.7	1,496.5	1,496.2	5.8	5.8	159.48	5.9	39.9	51.3	39.3	11.93	4.296	
1,600.0	1,599.3	1,593.7	1,593.0	6.1	6.0	158.62	10.3	47.5	67.8	55.5	12.33	5.500	
1,700.0	1,698.6	1,689.7	1,688.3	6.3	6.3	157.95	15.9	57.0	89.0	76.2	12.75	6.978	
1,800.0	1,797.6	1,785.6	1,783.3	6.5	6.5	157.50	22.4	68.4	113.8	100.8	13.06	8.717	
1,900.0	1,896.6	1,882.3	1,879.1	6.7	6.7	157.22	29.2	80.1	139.1	125.6	13.51	10.293	
2,000.0	1,995.7	1,979.1	1,975.0	7.0	7.0	157.02	35.9	91.7	164.3	150.3	14.00	11.737	
2,100.0	2,094.7	2,075.8	2,070.8	7.3	7.3	156.88	42.6	103.4	189.6	175.1	14.52	13.061	
2,200.0	2,193.7	2,172.6	2,166.6	7.6	7.6	156.77	49.4	115.0	214.8	199.8	15.05	14.274	
2,300.0	2,292.8	2,269.4	2,262.4	7.9	7.9	156.68	56.1	126.7	240.1	224.5	15.61	15.383	
2,400.0	2,391.8	2,366.1	2,358.2	8.3	8.2	156.61	62.8	138.4	265.3	249.1	16.18	16.398	
2,500.0	2,490.8	2,462.9	2,454.1	8.6	8.5	156.55	69.6	150.0	290.6	273.8	16.77	17.327	
2,600.0	2,589.8	2,559.6	2,549.9	8.9	8.8	156.50	76.3	161.7	315.8	298.5	17.37	18.178	
2,700.0	2,688.9	2,656.4	2,645.7	9.3	9.2	156.46	83.0	173.3	341.1	323.1	17.99	18.959	
2,800.0	2,787.9	2,753.2	2,741.5	9.7	9.5	156.43	89.8	185.0	366.3	347.7	18.62	19.675	
2,900.0	2,886.9	2,849.9	2,837.3	10.0	9.9	156.40	96.5	196.7	391.6	372.3	19.26	20.333	
3,000.0	2,985.9	2,946.7	2,933.1	10.4	10.2	156.37	103.2	208.3	416.8	396.9	19.91	20.940	
3,100.0	3,085.0	3,043.4	3,029.0	10.8	10.6	156.34	110.0	220.0	442.1	421.5	20.56	21.499	
3,200.0	3,184.0	3,140.2	3,124.8	11.1	11.0	156.32	116.7	231.7	467.3	446.1	21.23	22.016	
3,300.0	3,283.0	3,237.0	3,220.6	11.5	11.3	156.30	123.4	243.3	492.6	470.7	21.90	22.494	
3,400.0	3,382.0	3,333.7	3,316.4	11.9	11.7	156.28	130.2	255.0	517.8	495.2	22.58	22.938	
3,500.0	3,481.1	3,430.5	3,412.2	12.3	12.1	156.27	136.9	266.6	543.1	519.8	23.26	23.349	
3,600.0	3,580.1	3,527.2	3,508.0	12.7	12.4	156.25	143.6	278.3	568.3	544.4	23.95	23.732	
3,700.0	3,679.1	3,624.0	3,603.9	13.1	12.8	156.24	150.4	290.0	593.6	568.9	24.64	24.089	
3,800.0	3,778.2	3,720.8	3,699.7	13.5	13.2	156.23	157.1	301.6	618.8	593.5	25.34	24.422	
3,900.0	3,877.2	3,818.4	3,796.3	13.9	13.6	156.22	163.9	313.4	644.1	618.0	26.05	24.726	
4,000.0	3,976.2	3,920.6	3,897.7	14.3	14.0	156.23	170.7	325.2	668.8	642.0	26.79	24.964	
4,100.0	4,075.2	4,023.2	3,999.5	14.7	14.4	156.27	177.1	336.3	692.7	665.2	27.53	25.159	
4,200.0	4,174.3	4,126.3	4,101.9	15.1	14.8	156.34	183.0	346.6	715.9	687.6	28.28	25.317	
4,300.0	4,273.3	4,229.7	4,204.7	15.5	15.2	156.44	188.5	356.1	738.2	709.2	29.02	25.441	
4,400.0	4,372.3	4,333.5	4,308.0	15.9	15.6	156.56	193.6	364.9	759.8	730.0	29.75	25.535	
4,500.0	4,471.3	4,437.7	4,411.8	16.3	16.0	156.71	198.2	372.9	780.5	750.0	30.49	25.602	
4,600.0	4,570.4	4,542.2	4,516.0	16.7	16.4	156.87	202.4	380.1	800.5	769.3	31.21	25.644	
4,700.0	4,669.4	4,647.1	4,620.5	17.2	16.7	157.06	206.1	386.5	819.6	787.7	31.94	25.664	
4,800.0	4,768.4	4,752.2	4,725.5	17.6	17.1	157.27	209.3	392.0	837.9	805.3	32.65	25.665	
4,900.0	4,867.5	4,857.6	4,830.8	18.0	17.5	157.49	212.0	396.8	855.5	822.1	33.35	25.648	
5,000.0	4,966.5	4,963.4	4,936.4	18.4	17.8	157.74	214.3	400.7	872.2	838.1	34.05	25.616	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *HENNIN FED COM #702H - Slot HENNIN FED COM #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	WELL @ 3220.0usft (Original Well Elev)
Reference Site:	HENNIN PROJECT	MD Reference:	WELL @ 3220.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*HENNIN FED COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: HENNIN PROJECT - *HENNIN FED COM #703H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)		Ellipses (usft)			
5,100.0	5,065.5	5,069.3	5,042.3	18.8	18.1	158.00	216.1	403.8	888.1	853.4	34.73	25.573	
5,200.0	5,164.5	5,175.6	5,148.5	19.2	18.4	158.28	217.4	406.1	903.2	867.8	35.39	25.520	
5,300.0	5,263.6	5,282.0	5,255.0	19.6	18.7	158.59	218.2	407.4	917.5	881.5	36.03	25.464	
5,400.0	5,362.6	5,388.7	5,361.6	20.1	18.9	158.91	218.5	408.0	931.0	894.4	36.59	25.445	
5,500.0	5,461.6	5,488.7	5,461.6	20.5	18.9	159.21	218.5	408.0	944.0	907.0	37.05	25.477	
5,600.0	5,560.6	5,587.7	5,560.6	20.9	19.0	159.51	218.5	408.0	957.1	919.5	37.51	25.512	
5,700.0	5,659.7	5,686.7	5,659.7	21.3	19.0	159.79	218.5	408.0	970.1	932.1	37.98	25.544	
5,800.0	5,758.7	5,785.8	5,758.7	21.7	19.1	160.09	218.5	408.0	983.1	944.7	38.43	25.582	
5,900.0	5,857.9	5,885.0	5,857.9	22.1	19.1	160.37	218.5	408.0	995.0	956.1	38.90	25.579	
6,000.0	5,957.3	5,984.4	5,957.3	22.5	19.2	160.61	218.5	408.0	1,005.2	965.8	39.35	25.542	
6,100.0	6,056.9	6,084.0	6,056.9	22.9	19.2	160.81	218.5	408.0	1,013.7	973.9	39.80	25.472	
6,200.0	6,156.6	6,183.7	6,156.6	23.3	19.3	160.97	218.5	408.0	1,020.7	980.4	40.23	25.373	
6,300.0	6,256.5	6,283.5	6,256.5	23.6	19.3	161.09	218.5	408.0	1,026.0	985.3	40.64	25.248	
6,400.0	6,356.4	6,383.5	6,356.4	24.0	19.4	161.17	218.5	408.0	1,029.6	988.6	41.02	25.102	
6,500.0	6,456.4	6,483.4	6,456.4	24.2	19.5	161.21	218.5	408.0	1,031.6	990.3	41.36	24.944	
6,600.0	6,556.4	6,583.4	6,556.4	24.3	19.5	88.92	218.5	408.0	1,032.0	990.5	41.51	24.862	
6,700.0	6,656.4	6,683.4	6,656.4	24.4	19.6	88.92	218.5	408.0	1,032.0	990.4	41.60	24.807	
6,800.0	6,756.4	6,783.4	6,756.4	24.4	19.6	88.92	218.5	408.0	1,032.0	990.3	41.69	24.752	
6,900.0	6,856.4	6,883.4	6,856.4	24.4	19.7	88.92	218.5	408.0	1,032.0	990.2	41.79	24.697	
7,000.0	6,956.4	6,983.4	6,956.4	24.5	19.7	88.92	218.5	408.0	1,032.0	990.2	41.88	24.642	
7,100.0	7,056.4	7,083.4	7,056.4	24.5	19.8	88.92	218.5	408.0	1,032.0	990.1	41.97	24.587	
7,200.0	7,156.4	7,183.4	7,156.4	24.6	19.8	88.92	218.5	408.0	1,032.0	990.0	42.07	24.532	
7,300.0	7,256.4	7,283.4	7,256.4	24.6	19.9	88.92	218.5	408.0	1,032.0	989.9	42.16	24.477	
7,400.0	7,356.4	7,383.4	7,356.4	24.6	19.9	88.92	218.5	408.0	1,032.0	989.8	42.26	24.422	
7,500.0	7,456.4	7,483.4	7,456.4	24.7	20.0	88.92	218.5	408.0	1,032.0	989.7	42.35	24.367	
7,600.0	7,556.4	7,583.4	7,556.4	24.7	20.0	88.92	218.5	408.0	1,032.0	989.6	42.45	24.312	
7,700.0	7,656.4	7,683.4	7,656.4	24.8	20.1	88.92	218.5	408.0	1,032.0	989.5	42.55	24.258	
7,800.0	7,756.4	7,783.4	7,756.4	24.8	20.2	88.92	218.5	408.0	1,032.0	989.4	42.64	24.203	
7,900.0	7,856.4	7,883.4	7,856.4	24.8	20.2	88.92	218.5	408.0	1,032.0	989.3	42.74	24.148	
8,000.0	7,956.4	7,983.4	7,956.4	24.9	20.3	88.92	218.5	408.0	1,032.0	989.2	42.84	24.093	
8,100.0	8,056.4	8,083.4	8,056.4	24.9	20.3	88.92	218.5	408.0	1,032.0	989.1	42.93	24.038	
8,200.0	8,156.4	8,183.4	8,156.4	25.0	20.4	88.92	218.5	408.0	1,032.0	989.0	43.03	23.983	
8,300.0	8,256.4	8,283.4	8,256.4	25.0	20.4	88.92	218.5	408.0	1,032.0	988.9	43.13	23.929	
8,400.0	8,356.4	8,383.4	8,356.4	25.0	20.5	88.92	218.5	408.0	1,032.0	988.8	43.23	23.874	
8,500.0	8,456.4	8,483.4	8,456.4	25.1	20.5	88.92	218.5	408.0	1,032.0	988.7	43.33	23.819	
8,600.0	8,556.4	8,583.4	8,556.4	25.1	20.6	88.92	218.5	408.0	1,032.0	988.6	43.43	23.765	
8,700.0	8,656.4	8,683.4	8,656.4	25.2	20.7	88.92	218.5	408.0	1,032.0	988.5	43.53	23.710	
8,800.0	8,756.4	8,783.4	8,756.4	25.2	20.7	88.92	218.5	408.0	1,032.0	988.4	43.63	23.656	
8,900.0	8,856.4	8,883.4	8,856.4	25.3	20.8	88.92	218.5	408.0	1,032.0	988.3	43.73	23.601	
9,000.0	8,956.4	8,983.4	8,956.4	25.3	20.8	88.92	218.5	408.0	1,032.0	988.2	43.83	23.547	
9,100.0	9,056.4	9,083.4	9,056.4	25.3	20.9	88.92	218.5	408.0	1,032.0	988.1	43.93	23.492	
9,200.0	9,156.4	9,183.4	9,156.4	25.4	20.9	88.92	218.5	408.0	1,032.0	988.0	44.03	23.438	
9,300.0	9,256.4	9,283.4	9,256.4	25.4	21.0	88.92	218.5	408.0	1,032.0	987.9	44.13	23.384	
9,400.0	9,356.4	9,383.4	9,356.4	25.5	21.1	88.92	218.5	408.0	1,032.0	987.8	44.24	23.330	
9,500.0	9,456.4	9,483.4	9,456.4	25.5	21.1	88.92	218.5	408.0	1,032.0	987.7	44.34	23.276	
9,600.0	9,556.4	9,583.4	9,556.4	25.6	21.2	88.92	218.5	408.0	1,032.0	987.6	44.44	23.222	
9,700.0	9,656.4	9,683.4	9,656.4	25.6	21.2	88.92	218.5	408.0	1,032.0	987.5	44.55	23.168	
9,800.0	9,756.4	9,783.4	9,756.4	25.6	21.3	88.92	218.5	408.0	1,032.0	987.4	44.65	23.114	
9,900.0	9,856.4	9,883.4	9,856.4	25.7	21.3	88.92	218.5	408.0	1,032.0	987.3	44.75	23.060	
10,000.0	9,956.4	9,983.4	9,956.4	25.7	21.4	88.92	218.5	408.0	1,032.0	987.2	44.86	23.006	
10,100.0	10,056.4	10,083.4	10,056.4	25.8	21.5	88.92	218.5	408.0	1,032.0	987.1	44.96	22.953	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *HENNIN FED COM #702H - Slot HENNIN FED COM #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	WELL @ 3220.0usft (Original Well Elev)
Reference Site:	HENNIN PROJECT	MD Reference:	WELL @ 3220.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*HENNIN FED COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: HENNIN PROJECT - *HENNIN FED COM #703H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
10,200.0	10,156.4	10,183.4	10,156.4	25.8	21.5	88.92	218.5	408.0	1,032.0	987.0	45.07	22.899	
10,300.0	10,256.4	10,283.4	10,256.4	25.9	21.6	88.92	218.5	408.0	1,032.0	986.9	45.17	22.846	
10,400.0	10,356.4	10,383.4	10,356.4	25.9	21.6	88.92	218.5	408.0	1,032.0	986.8	45.28	22.792	
10,500.0	10,456.4	10,483.4	10,456.4	26.0	21.7	88.92	218.5	408.0	1,032.0	986.6	45.39	22.739	
10,600.0	10,556.4	10,583.4	10,556.4	26.0	21.8	88.92	218.5	408.0	1,032.0	986.5	45.49	22.686	
10,700.0	10,656.4	10,683.4	10,656.4	26.0	21.8	88.92	218.5	408.0	1,032.0	986.4	45.60	22.632	
10,800.0	10,756.4	10,783.4	10,756.4	26.1	21.9	88.92	218.5	408.0	1,032.0	986.3	45.71	22.579	
10,900.0	10,856.4	10,883.4	10,856.4	26.1	21.9	88.92	218.5	408.0	1,032.0	986.2	45.81	22.526	
11,000.0	10,956.4	10,983.4	10,956.4	26.2	22.0	88.92	218.5	408.0	1,032.0	986.1	45.92	22.473	
11,100.0	11,056.4	11,083.4	11,056.4	26.2	22.1	88.92	218.5	408.0	1,032.0	986.0	46.03	22.421	
11,200.0	11,156.4	11,183.4	11,156.4	26.3	22.1	88.92	218.5	408.0	1,032.0	985.9	46.14	22.368	
11,300.0	11,256.4	11,283.4	11,256.4	26.3	22.2	88.92	218.5	408.0	1,032.0	985.8	46.25	22.315	
11,400.0	11,356.4	11,383.4	11,356.4	26.4	22.2	88.92	218.5	408.0	1,032.0	985.7	46.36	22.263	
11,500.0	11,456.4	11,483.4	11,456.4	26.4	22.3	88.92	218.5	408.0	1,032.0	985.6	46.47	22.211	
11,600.0	11,556.4	11,583.4	11,556.4	26.5	22.4	88.92	218.5	408.0	1,032.0	985.5	46.58	22.158	
11,700.0	11,656.4	11,683.4	11,656.4	26.5	22.4	88.92	218.5	408.0	1,032.0	985.4	46.69	22.106	
11,800.0	11,756.4	11,783.4	11,756.4	26.6	22.5	88.92	218.5	408.0	1,032.0	985.2	46.80	22.053	
11,900.0	11,856.4	11,883.4	11,856.4	26.6	22.4	89.24	212.9	408.0	1,032.0	985.1	46.87	22.020	
11,925.7	11,882.0	11,909.7	11,882.0	26.6	22.4	89.46	208.8	408.1	1,032.0	985.1	46.88	22.015	
12,000.0	11,956.4	11,980.7	11,950.9	26.7	22.3	90.42	191.5	408.2	1,032.2	985.2	46.91	22.001	
12,100.0	12,056.4	12,067.9	12,031.6	26.7	22.1	92.23	158.8	408.5	1,033.5	986.5	46.96	22.008	
12,200.0	12,156.3	12,144.2	12,097.5	26.7	22.0	-84.95	120.4	408.9	1,037.3	990.4	46.97	22.085	
12,300.0	12,254.6	12,216.6	12,154.8	26.6	21.9	-82.43	76.3	409.3	1,043.0	996.1	46.91	22.237	
12,400.0	12,347.1	12,287.5	12,205.1	26.4	21.8	-80.19	26.3	409.8	1,049.3	1,002.5	46.84	22.401	
12,500.0	12,429.8	12,357.6	12,248.3	26.3	21.7	-78.35	-28.7	410.3	1,055.3	1,008.5	46.81	22.546	
12,600.0	12,499.1	12,426.9	12,284.2	26.2	21.7	-76.97	-88.0	410.9	1,060.1	1,013.3	46.80	22.652	
12,700.0	12,551.9	12,500.0	12,314.0	26.1	21.6	-76.10	-154.7	411.5	1,063.3	1,016.5	46.82	22.712	
12,800.0	12,585.9	12,564.7	12,333.1	26.1	21.6	-75.83	-216.4	412.1	1,064.3	1,017.5	46.85	22.716	
12,900.0	12,599.7	12,633.4	12,345.6	26.1	21.6	-76.12	-284.0	412.7	1,063.2	1,016.4	46.88	22.679	
13,000.0	12,600.0	12,704.1	12,350.0	26.2	21.7	-76.38	-354.4	413.4	1,061.8	1,014.9	46.93	22.625	
13,036.0	12,600.0	12,738.2	12,350.0	26.2	21.7	-76.38	-388.6	413.7	1,061.8	1,014.8	46.98	22.601	
13,100.0	12,600.0	12,802.2	12,350.0	26.3	21.8	-76.38	-452.5	414.3	1,061.8	1,014.7	47.07	22.556	
13,200.0	12,600.0	12,902.2	12,350.0	26.4	21.9	-76.38	-552.5	415.2	1,061.8	1,014.5	47.27	22.464	
13,300.0	12,600.0	13,002.2	12,350.0	26.6	22.1	-76.38	-652.5	416.1	1,061.8	1,014.3	47.51	22.349	
13,400.0	12,600.0	13,102.2	12,350.0	26.7	22.3	-76.38	-752.5	417.1	1,061.8	1,014.0	47.80	22.214	
13,500.0	12,600.0	13,202.2	12,350.0	26.9	22.5	-76.38	-852.5	418.0	1,061.8	1,013.6	48.13	22.060	
13,600.0	12,600.0	13,302.2	12,350.0	27.1	22.7	-76.38	-952.5	419.0	1,061.8	1,013.3	48.51	21.887	
13,700.0	12,600.0	13,402.2	12,350.0	27.3	22.9	-76.38	-1,052.5	419.9	1,061.8	1,012.8	48.93	21.697	
13,800.0	12,600.0	13,502.2	12,350.0	27.6	23.2	-76.38	-1,152.5	420.8	1,061.7	1,012.3	49.40	21.492	
13,900.0	12,600.0	13,602.2	12,350.0	27.8	23.5	-76.38	-1,252.5	421.8	1,061.7	1,011.8	49.91	21.273	
14,000.0	12,600.0	13,702.2	12,350.0	28.1	23.8	-76.38	-1,352.5	422.7	1,061.7	1,011.3	50.46	21.041	
14,100.0	12,600.0	13,802.2	12,350.0	28.4	24.1	-76.38	-1,452.5	423.6	1,061.7	1,010.7	51.05	20.799	
14,200.0	12,600.0	13,902.2	12,350.0	28.7	24.4	-76.38	-1,552.5	424.6	1,061.7	1,010.0	51.67	20.547	
14,300.0	12,600.0	14,002.2	12,350.0	29.0	24.8	-76.38	-1,652.5	425.5	1,061.7	1,009.4	52.34	20.287	
14,400.0	12,600.0	14,102.2	12,350.0	29.4	25.2	-76.38	-1,752.5	426.5	1,061.7	1,008.7	53.03	20.020	
14,500.0	12,600.0	14,202.2	12,350.0	29.7	25.6	-76.38	-1,852.5	427.4	1,061.7	1,007.9	53.76	19.747	
14,600.0	12,600.0	14,302.2	12,350.0	30.1	26.0	-76.38	-1,952.5	428.3	1,061.7	1,007.2	54.53	19.471	
14,700.0	12,600.0	14,402.2	12,350.0	30.5	26.4	-76.38	-2,052.5	429.3	1,061.7	1,006.4	55.32	19.191	
14,800.0	12,600.0	14,502.1	12,350.0	30.9	26.8	-76.38	-2,152.5	430.2	1,061.7	1,005.5	56.15	18.909	
14,900.0	12,600.0	14,602.1	12,350.0	31.3	27.3	-76.38	-2,252.5	431.1	1,061.7	1,004.7	57.00	18.626	
15,000.0	12,600.0	14,702.1	12,350.0	31.7	27.7	-76.38	-2,352.5	432.1	1,061.7	1,003.8	57.88	18.343	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *HENNIN FED COM #702H - Slot HENNIN FED COM #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	WELL @ 3220.0usft (Original Well Elev)
Reference Site:	HENNIN PROJECT	MD Reference:	WELL @ 3220.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*HENNIN FED COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: HENNIN PROJECT - *HENNIN FED COM #703H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
15,100.0	12,600.0	14,802.1	12,350.0	32.1	28.2	-76.38	-2,452.4	433.0	1,061.7	1,002.9	58.78	18.061	
15,200.0	12,600.0	14,902.1	12,350.0	32.6	28.7	-76.38	-2,552.4	433.9	1,061.7	1,001.9	59.71	17.779	
15,300.0	12,600.0	15,002.1	12,350.0	33.0	29.2	-76.38	-2,652.4	434.9	1,061.6	1,001.0	60.67	17.500	
15,400.0	12,600.0	15,102.1	12,350.0	33.5	29.7	-76.38	-2,752.4	435.8	1,061.6	1,000.0	61.64	17.223	
15,500.0	12,600.0	15,202.1	12,350.0	34.0	30.3	-76.38	-2,852.4	436.8	1,061.6	999.0	62.64	16.948	
15,600.0	12,600.0	15,302.1	12,350.0	34.5	30.8	-76.38	-2,952.4	437.7	1,061.6	998.0	63.66	16.677	
15,700.0	12,600.0	15,402.1	12,350.0	35.0	31.4	-76.38	-3,052.4	438.6	1,061.6	996.9	64.69	16.410	
15,800.0	12,600.0	15,502.1	12,350.0	35.5	31.9	-76.38	-3,152.4	439.6	1,061.6	995.9	65.75	16.147	
15,900.0	12,600.0	15,602.1	12,350.0	36.0	32.5	-76.38	-3,252.4	440.5	1,061.6	994.8	66.82	15.887	
16,000.0	12,600.0	15,702.1	12,350.0	36.5	33.0	-76.38	-3,352.4	441.4	1,061.6	993.7	67.91	15.632	
16,100.0	12,600.0	15,802.1	12,350.0	37.0	33.6	-76.38	-3,452.4	442.4	1,061.6	992.6	69.02	15.382	
16,200.0	12,600.0	15,902.1	12,350.0	37.6	34.2	-76.38	-3,552.4	443.3	1,061.6	991.4	70.14	15.136	
16,300.0	12,600.0	16,002.1	12,350.0	38.1	34.8	-76.38	-3,652.4	444.3	1,061.6	990.3	71.27	14.895	
16,400.0	12,600.0	16,102.1	12,350.0	38.7	35.4	-76.38	-3,752.4	445.2	1,061.6	989.1	72.42	14.658	
16,500.0	12,600.0	16,202.1	12,350.0	39.2	36.0	-76.38	-3,852.4	446.1	1,061.6	988.0	73.58	14.427	
16,600.0	12,600.0	16,302.1	12,350.0	39.8	36.6	-76.38	-3,952.4	447.1	1,061.6	986.8	74.76	14.200	
16,700.0	12,600.0	16,402.1	12,350.0	40.4	37.3	-76.38	-4,052.4	448.0	1,061.5	985.6	75.94	13.978	
16,800.0	12,600.0	16,502.1	12,350.0	41.0	37.9	-76.38	-4,152.4	448.9	1,061.5	984.4	77.14	13.761	
16,900.0	12,600.0	16,602.1	12,350.0	41.6	38.5	-76.38	-4,252.4	449.9	1,061.5	983.2	78.35	13.549	
17,000.0	12,600.0	16,702.1	12,350.0	42.2	39.1	-76.38	-4,352.4	450.8	1,061.5	982.0	79.57	13.341	
17,100.0	12,600.0	16,802.1	12,350.0	42.8	39.8	-76.38	-4,452.4	451.7	1,061.5	980.7	80.80	13.138	
17,200.0	12,600.0	16,902.1	12,350.0	43.4	40.4	-76.38	-4,552.4	452.7	1,061.5	979.5	82.04	12.939	
17,300.0	12,600.0	17,002.1	12,350.0	44.0	41.1	-76.38	-4,652.4	453.6	1,061.5	978.2	83.28	12.746	
17,400.0	12,600.0	17,102.1	12,350.0	44.6	41.7	-76.38	-4,752.3	454.6	1,061.5	977.0	84.54	12.556	
17,500.0	12,600.0	17,202.1	12,350.0	45.2	42.4	-76.38	-4,852.3	455.5	1,061.5	975.7	85.80	12.371	
17,600.0	12,600.0	17,302.1	12,350.0	45.8	43.1	-76.38	-4,952.3	456.4	1,061.5	974.4	87.08	12.190	
17,700.0	12,600.0	17,402.1	12,350.0	46.4	43.7	-76.38	-5,052.3	457.4	1,061.5	973.1	88.36	12.014	
17,800.0	12,600.0	17,502.1	12,350.0	47.1	44.4	-76.38	-5,152.3	458.3	1,061.5	971.8	89.64	11.841	
17,900.0	12,600.0	17,602.1	12,350.0	47.7	45.1	-76.38	-5,252.3	459.2	1,061.5	970.5	90.94	11.673	
18,000.0	12,600.0	17,702.1	12,350.0	48.3	45.7	-76.38	-5,352.3	460.2	1,061.5	969.2	92.24	11.508	
18,100.0	12,600.0	17,802.1	12,350.0	49.0	46.4	-76.38	-5,452.3	461.1	1,061.5	967.9	93.54	11.347	
18,200.0	12,600.0	17,902.1	12,350.0	49.6	47.1	-76.38	-5,552.3	462.1	1,061.4	966.6	94.86	11.190	
18,300.0	12,600.0	18,002.1	12,350.0	50.3	47.8	-76.38	-5,652.3	463.0	1,061.4	965.3	96.17	11.037	
18,400.0	12,600.0	18,102.1	12,350.0	50.9	48.4	-76.38	-5,752.3	463.9	1,061.4	963.9	97.50	10.887	
18,500.0	12,600.0	18,202.1	12,350.0	51.6	49.1	-76.38	-5,852.3	464.9	1,061.4	962.6	98.83	10.740	
18,600.0	12,600.0	18,302.1	12,350.0	52.2	49.8	-76.38	-5,952.3	465.8	1,061.4	961.3	100.16	10.597	
18,700.0	12,600.0	18,402.1	12,350.0	52.9	50.5	-76.38	-6,052.3	466.7	1,061.4	959.9	101.50	10.457	
18,800.0	12,600.0	18,502.1	12,350.0	53.6	51.2	-76.38	-6,152.3	467.7	1,061.4	958.6	102.84	10.320	
18,900.0	12,600.0	18,602.1	12,350.0	54.2	51.9	-76.38	-6,252.3	468.6	1,061.4	957.2	104.19	10.187	
19,000.0	12,600.0	18,702.1	12,350.0	54.9	52.6	-76.38	-6,352.3	469.5	1,061.4	955.8	105.55	10.056	
19,100.0	12,600.0	18,802.1	12,350.0	55.6	53.3	-76.38	-6,452.3	470.5	1,061.4	954.5	106.90	9.928	
19,200.0	12,600.0	18,902.1	12,350.0	56.2	54.0	-76.38	-6,552.3	471.4	1,061.4	953.1	108.27	9.803	
19,300.0	12,600.0	19,002.1	12,350.0	56.9	54.7	-76.38	-6,652.3	472.4	1,061.4	951.7	109.63	9.681	
19,400.0	12,600.0	19,102.1	12,350.0	57.6	55.4	-76.38	-6,752.3	473.3	1,061.4	950.4	111.00	9.562	
19,500.0	12,600.0	19,202.1	12,350.0	58.3	56.1	-76.38	-6,852.3	474.2	1,061.4	949.0	112.37	9.445	
19,600.0	12,600.0	19,302.1	12,350.0	59.0	56.8	-76.38	-6,952.2	475.2	1,061.3	947.6	113.75	9.331	
19,700.0	12,600.0	19,402.1	12,350.0	59.6	57.5	-76.38	-7,052.2	476.1	1,061.3	946.2	115.13	9.219	
19,800.0	12,600.0	19,502.1	12,350.0	60.3	58.2	-76.38	-7,152.2	477.0	1,061.3	944.8	116.51	9.109	
19,900.0	12,600.0	19,602.1	12,350.0	61.0	58.9	-76.38	-7,252.2	478.0	1,061.3	943.4	117.90	9.002	
20,000.0	12,600.0	19,702.1	12,350.0	61.7	59.7	-76.37	-7,352.2	478.9	1,061.3	942.0	119.28	8.897	
20,100.0	12,600.0	19,802.1	12,350.0	62.4	60.4	-76.37	-7,452.2	479.9	1,061.3	940.6	120.68	8.795	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *HENNIN FED COM #702H - Slot HENNIN FED COM #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	WELL @ 3220.0usft (Original Well Elev)
Reference Site:	HENNIN PROJECT	MD Reference:	WELL @ 3220.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*HENNIN FED COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: HENNIN PROJECT - *HENNIN FED COM #703H - OWB - PWP0												Offset Site Error:	0.0 usft	
Survey Program:		0-r.5 MWD+IFR1+MS				Rule Assigned:							Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance		Separation		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Factor		
20,200.0	12,600.0	19,902.1	12,350.0	63.1	61.1	-76.37	-7,552.2	480.8	1,061.3	939.2	122.07	8.694		
20,300.0	12,600.0	20,002.1	12,350.0	63.8	61.8	-76.37	-7,652.2	481.7	1,061.3	937.8	123.47	8.596		
20,400.0	12,600.0	20,102.1	12,350.0	64.5	62.5	-76.37	-7,752.2	482.7	1,061.3	936.4	124.87	8.499		
20,500.0	12,600.0	20,202.1	12,350.0	65.2	63.2	-76.37	-7,852.2	483.6	1,061.3	935.0	126.27	8.405		
20,600.0	12,600.0	20,302.1	12,350.0	65.9	64.0	-76.37	-7,952.2	484.5	1,061.3	933.6	127.68	8.312		
20,700.0	12,600.0	20,402.1	12,350.0	66.6	64.7	-76.37	-8,052.2	485.5	1,061.3	932.2	129.08	8.222		
20,800.0	12,600.0	20,502.1	12,350.0	67.3	65.4	-76.37	-8,152.2	486.4	1,061.3	930.8	130.49	8.133		
20,900.0	12,600.0	20,602.1	12,350.0	68.0	66.1	-76.37	-8,252.2	487.3	1,061.3	929.4	131.90	8.046		
21,000.0	12,600.0	20,702.1	12,350.0	68.7	66.8	-76.37	-8,352.2	488.3	1,061.3	927.9	133.32	7.960		
21,100.0	12,600.0	20,802.1	12,350.0	69.4	67.6	-76.37	-8,452.2	489.2	1,061.2	926.5	134.73	7.877		
21,200.0	12,600.0	20,902.1	12,350.0	70.1	68.3	-76.37	-8,552.2	490.2	1,061.2	925.1	136.15	7.795		
21,300.0	12,600.0	21,002.1	12,350.0	70.8	69.0	-76.37	-8,652.2	491.1	1,061.2	923.7	137.57	7.714		
21,400.0	12,600.0	21,102.1	12,350.0	71.5	69.7	-76.37	-8,752.2	492.0	1,061.2	922.2	138.99	7.635		
21,500.0	12,600.0	21,202.1	12,350.0	72.2	70.5	-76.37	-8,852.2	493.0	1,061.2	920.8	140.42	7.558		
21,600.0	12,600.0	21,302.1	12,350.0	72.9	71.2	-76.37	-8,952.2	493.9	1,061.2	919.4	141.84	7.482		
21,700.0	12,600.0	21,402.1	12,350.0	73.7	71.9	-76.37	-9,052.2	494.8	1,061.2	917.9	143.27	7.407		
21,800.0	12,600.0	21,502.1	12,350.0	74.4	72.7	-76.37	-9,152.2	495.8	1,061.2	916.5	144.70	7.334		
21,900.0	12,600.0	21,602.1	12,350.0	75.1	73.4	-76.37	-9,252.1	496.7	1,061.2	915.1	146.13	7.262		
22,000.0	12,600.0	21,702.1	12,350.0	75.8	74.1	-76.37	-9,352.1	497.7	1,061.2	913.6	147.56	7.191		
22,100.0	12,600.0	21,802.1	12,350.0	76.5	74.9	-76.37	-9,452.1	498.6	1,061.2	912.2	148.99	7.122		
22,200.0	12,600.0	21,902.1	12,350.0	77.2	75.6	-76.37	-9,552.1	499.5	1,061.2	910.7	150.43	7.054		
22,300.0	12,600.0	22,002.1	12,350.0	78.0	76.3	-76.37	-9,652.1	500.5	1,061.2	909.3	151.87	6.987		
22,400.0	12,600.0	22,102.1	12,350.0	78.7	77.1	-76.37	-9,752.1	501.4	1,061.2	907.8	153.30	6.922		
22,500.0	12,600.0	22,202.1	12,350.0	79.4	77.8	-76.37	-9,852.1	502.3	1,061.1	906.4	154.74	6.857		
22,600.0	12,600.0	22,302.1	12,350.0	80.1	78.5	-76.37	-9,952.1	503.3	1,061.1	905.0	156.18	6.794		
22,700.0	12,600.0	22,402.1	12,350.0	80.8	79.3	-76.37	-10,052.1	504.2	1,061.1	903.5	157.63	6.732		
22,800.0	12,600.0	22,502.1	12,350.0	81.6	80.0	-76.37	-10,152.1	505.1	1,061.1	902.1	159.07	6.671		
22,900.0	12,600.0	22,602.1	12,350.0	82.3	80.7	-76.37	-10,252.1	506.1	1,061.1	900.6	160.51	6.611		
23,000.0	12,600.0	22,702.1	12,350.0	83.0	81.5	-76.37	-10,352.1	507.0	1,061.1	899.2	161.96	6.552		
23,100.0	12,600.0	22,802.1	12,350.0	83.7	82.2	-76.37	-10,452.1	508.0	1,061.1	897.7	163.41	6.494		
23,200.0	12,600.0	22,902.1	12,350.0	84.5	82.9	-76.37	-10,552.1	508.9	1,061.1	896.2	164.85	6.437		
23,300.0	12,600.0	23,002.1	12,350.0	85.2	83.7	-76.37	-10,652.1	509.8	1,061.1	894.8	166.30	6.380		
23,400.0	12,600.0	23,102.1	12,350.0	85.9	84.4	-76.37	-10,752.1	510.8	1,061.1	893.3	167.75	6.325		
23,481.2	12,600.0	23,183.4	12,350.0	86.5	85.0	-76.37	-10,833.3	511.5	1,061.1	892.1	168.93	6.281		

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *HENNIN FED COM #702H - Slot HENNIN FED COM #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	WELL @ 3220.0usft (Original Well Elev)
Reference Site:	HENNIN PROJECT	MD Reference:	WELL @ 3220.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*HENNIN FED COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: HENNIN PROJECT - *HENNIN FED COM #802H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)		Reference (usft)	Offset (usft)	Between Centres (usft)	Between Ellipses (usft)					
0.0	0.0	0.0	0.0	3.0	3.0	90.00	0.0	60.0	60.0	53.6	6.43	9.333	
100.0	100.0	100.0	100.0	3.2	3.2	90.00	0.0	60.0	60.0	53.1	6.89	8.705	
200.0	200.0	200.0	200.0	3.5	3.5	90.00	0.0	60.0	60.0	52.7	7.33	8.188	
300.0	300.0	300.0	300.0	3.7	3.7	90.00	0.0	60.0	60.0	52.3	7.74	7.751	
400.0	400.0	400.0	400.0	3.9	3.9	90.00	0.0	60.0	60.0	51.9	8.14	7.375	
500.0	500.0	500.0	500.0	4.1	4.1	90.00	0.0	60.0	60.0	51.5	8.51	7.048	
600.0	600.0	600.0	600.0	4.2	4.2	90.00	0.0	60.0	60.0	51.1	8.88	6.759	
700.0	700.0	700.0	700.0	4.4	4.4	90.00	0.0	60.0	60.0	50.8	9.23	6.501	
800.0	800.0	800.0	800.0	4.6	4.6	90.00	0.0	60.0	60.0	50.4	9.57	6.269	
900.0	900.0	900.0	900.0	4.8	4.8	90.00	0.0	60.0	60.0	50.1	9.90	6.059	
1,000.0	1,000.0	1,000.0	1,000.0	4.9	4.9	90.00	0.0	60.0	60.0	49.8	10.22	5.868	
1,100.0	1,100.0	1,100.0	1,100.0	5.1	5.1	90.00	0.0	60.0	60.0	49.5	10.54	5.693	
1,200.0	1,200.0	1,200.0	1,200.0	5.2	5.2	90.00	0.0	60.0	60.0	49.2	10.85	5.531	CC, ES, SF
1,300.0	1,300.0	1,298.4	1,298.4	5.4	5.4	162.35	0.3	61.2	62.5	51.3	11.20	5.578	
1,400.0	1,399.9	1,396.5	1,396.4	5.6	5.6	162.46	1.3	64.9	70.0	58.4	11.56	6.051	
1,500.0	1,499.7	1,493.9	1,493.6	5.8	5.8	162.61	2.9	70.9	82.4	70.4	11.94	6.898	
1,600.0	1,599.3	1,590.2	1,589.5	6.1	6.0	162.73	5.2	79.2	99.7	87.3	12.35	8.072	
1,700.0	1,698.6	1,685.0	1,683.7	6.3	6.3	162.83	8.0	89.7	121.8	109.0	12.78	9.530	
1,800.0	1,797.6	1,778.4	1,776.1	6.5	6.5	162.90	11.3	102.2	148.1	134.9	13.15	11.255	
1,900.0	1,896.6	1,870.4	1,867.0	6.7	6.8	162.78	15.2	116.7	176.7	163.1	13.61	12.986	
2,000.0	1,995.7	1,961.1	1,956.1	7.0	7.1	162.52	19.6	133.0	207.6	193.5	14.08	14.740	
2,100.0	2,094.7	2,050.4	2,043.4	7.3	7.3	162.19	24.4	151.1	240.6	226.1	14.55	16.543	
2,200.0	2,193.7	2,143.3	2,133.9	7.6	7.6	161.85	29.8	171.2	275.1	260.0	15.07	18.258	
2,300.0	2,292.8	2,237.2	2,225.4	7.9	7.9	161.57	35.3	191.6	309.6	293.9	15.65	19.776	
2,400.0	2,391.8	2,331.0	2,316.8	8.3	8.2	161.35	40.7	212.0	344.1	327.8	16.26	21.155	
2,500.0	2,490.8	2,424.9	2,408.3	8.6	8.6	161.17	46.2	232.4	378.6	361.7	16.89	22.409	
2,600.0	2,589.8	2,518.7	2,499.7	8.9	8.9	161.02	51.7	252.8	413.1	395.5	17.54	23.548	
2,700.0	2,688.9	2,612.6	2,591.2	9.3	9.3	160.90	57.1	273.2	447.6	429.4	18.20	24.586	
2,800.0	2,787.9	2,706.4	2,682.6	9.7	9.6	160.79	62.6	293.6	482.1	463.2	18.88	25.532	
2,900.0	2,886.9	2,800.3	2,774.1	10.0	10.0	160.70	68.1	314.0	516.6	497.0	19.57	26.395	
3,000.0	2,985.9	2,894.1	2,865.5	10.4	10.4	160.61	73.5	334.4	551.1	530.8	20.27	27.185	
3,100.0	3,085.0	2,988.0	2,957.0	10.8	10.8	160.54	79.0	354.8	585.6	564.6	20.98	27.908	
3,200.0	3,184.0	3,081.8	3,048.4	11.1	11.1	160.48	84.4	375.1	620.1	598.4	21.70	28.572	
3,300.0	3,283.0	3,175.7	3,139.9	11.5	11.5	160.42	89.9	395.5	654.6	632.2	22.43	29.183	
3,400.0	3,382.0	3,269.6	3,231.3	11.9	11.9	160.37	95.4	415.9	689.1	666.0	23.17	29.746	
3,500.0	3,481.1	3,363.4	3,322.8	12.3	12.3	160.32	100.8	436.3	723.7	699.7	23.91	30.266	
3,600.0	3,580.1	3,457.3	3,414.2	12.7	12.7	160.28	106.3	456.7	758.2	733.5	24.66	30.747	
3,700.0	3,679.1	3,551.1	3,505.7	13.1	13.2	160.24	111.8	477.1	792.7	767.3	25.41	31.193	
3,800.0	3,778.2	3,645.0	3,597.1	13.5	13.6	160.20	117.2	497.5	827.2	801.0	26.17	31.607	
3,900.0	3,877.2	3,738.8	3,688.6	13.9	14.0	160.17	122.7	517.9	861.7	834.8	26.93	31.992	
4,000.0	3,976.2	3,832.7	3,780.0	14.3	14.4	160.14	128.2	538.3	896.2	868.5	27.70	32.352	
4,100.0	4,075.2	3,926.5	3,871.5	14.7	14.8	160.11	133.6	558.7	930.7	902.3	28.47	32.687	
4,200.0	4,174.3	4,020.4	3,962.9	15.1	15.2	160.09	139.1	579.1	965.3	936.0	29.25	33.000	
4,300.0	4,273.3	4,114.2	4,054.3	15.5	15.7	160.06	144.6	599.5	999.8	969.7	30.03	33.294	
4,400.0	4,372.3	4,208.1	4,145.8	15.9	16.1	160.04	150.0	619.9	1,034.3	1,003.5	30.81	33.569	
4,500.0	4,471.3	4,302.0	4,237.2	16.3	16.5	160.02	155.5	640.3	1,068.8	1,037.2	31.59	33.828	
4,600.0	4,570.4	4,395.8	4,328.7	16.7	16.9	160.00	160.9	660.7	1,103.3	1,070.9	32.38	34.071	
4,700.0	4,669.4	4,489.7	4,420.1	17.2	17.4	159.98	166.4	681.0	1,137.8	1,104.7	33.17	34.301	
4,800.0	4,768.4	4,583.5	4,511.6	17.6	17.8	159.96	171.9	701.4	1,172.3	1,138.4	33.96	34.517	
4,900.0	4,867.5	4,677.4	4,603.0	18.0	18.2	159.95	177.3	721.8	1,206.9	1,172.1	34.76	34.721	
5,000.0	4,966.5	4,771.2	4,694.5	18.4	18.7	159.93	182.8	742.2	1,241.4	1,205.8	35.55	34.914	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *HENNIN FED COM #702H - Slot HENNIN FED COM #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	WELL @ 3220.0usft (Original Well Elev)
Reference Site:	HENNIN PROJECT	MD Reference:	WELL @ 3220.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*HENNIN FED COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: HENNIN PROJECT - *HENNIN FED COM #802H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)		Reference (usft)	Offset (usft)	Between Centres (usft)	Between Ellipses (usft)					
5,100.0	5,065.5	4,865.1	4,785.9		18.8	19.1	159.92	188.3	762.6	1,275.9	1,239.5	36.35	35.097
5,200.0	5,164.5	4,958.9	4,877.4		19.2	19.5	159.90	193.7	783.0	1,310.4	1,273.2	37.15	35.270
5,300.0	5,263.6	5,052.8	4,968.8		19.6	20.0	159.89	199.2	803.4	1,344.9	1,307.0	37.95	35.435
5,400.0	5,362.6	5,146.6	5,060.3		20.1	20.4	159.88	204.7	823.8	1,379.4	1,340.7	38.76	35.591
5,500.0	5,461.6	5,240.5	5,151.7		20.5	20.8	159.86	210.1	844.2	1,413.9	1,374.4	39.56	35.739
5,600.0	5,560.6	5,334.4	5,243.2		20.9	21.3	159.85	215.6	864.6	1,448.5	1,408.1	40.37	35.881
5,700.0	5,659.7	5,428.2	5,334.6		21.3	21.7	159.84	221.1	885.0	1,483.0	1,441.8	41.18	36.015
5,800.0	5,758.7	5,522.1	5,426.1		21.7	22.1	159.87	226.5	905.4	1,517.4	1,475.5	41.97	36.155
5,900.0	5,857.9	5,616.4	5,518.0		22.1	22.6	159.96	232.0	925.9	1,550.7	1,507.9	42.77	36.253
6,000.0	5,957.3	5,711.2	5,610.4		22.5	23.0	160.02	237.5	946.5	1,582.5	1,538.9	43.57	36.318
6,100.0	6,056.9	5,806.5	5,703.2		22.9	23.5	160.06	243.1	967.2	1,612.7	1,568.3	44.36	36.353
6,200.0	6,156.6	5,902.3	5,796.6		23.3	23.9	160.07	248.7	988.0	1,641.3	1,596.1	45.14	36.360
6,300.0	6,256.5	5,998.5	5,890.3		23.6	24.4	160.06	254.3	1,008.9	1,668.3	1,622.4	45.90	36.344
6,400.0	6,356.4	6,095.1	5,984.5		24.0	24.8	160.03	259.9	1,029.9	1,693.8	1,647.2	46.65	36.309
6,500.0	6,456.4	6,192.2	6,079.0		24.2	25.3	159.97	265.5	1,051.0	1,717.7	1,670.3	47.36	36.266
6,600.0	6,556.4	6,304.2	6,188.2		24.3	25.8	87.54	272.0	1,075.1	1,739.9	1,691.9	48.04	36.219
6,700.0	6,656.4	6,443.7	6,324.8		24.4	26.5	87.34	279.4	1,102.7	1,759.9	1,711.1	48.89	36.001
6,800.0	6,756.4	6,584.6	6,463.4		24.4	27.1	87.16	286.0	1,127.3	1,777.6	1,727.9	49.70	35.765
6,900.0	6,856.4	6,726.7	6,603.7		24.4	27.7	87.01	291.7	1,148.7	1,792.9	1,742.4	50.48	35.518
7,000.0	6,956.4	6,869.8	6,745.6		24.5	28.3	86.88	296.6	1,166.9	1,805.8	1,754.6	51.21	35.261
7,100.0	7,056.4	7,013.8	6,888.7		24.5	28.9	86.78	300.6	1,181.8	1,816.2	1,764.3	51.90	34.997
7,200.0	7,156.4	7,158.5	7,032.9		24.6	29.5	86.71	303.6	1,193.2	1,824.2	1,771.7	52.51	34.738
7,300.0	7,256.4	7,303.7	7,177.9		24.6	30.0	86.66	305.8	1,201.1	1,829.8	1,776.7	53.07	34.481
7,400.0	7,356.4	7,449.2	7,323.3		24.6	30.4	86.63	306.9	1,205.5	1,832.8	1,779.3	53.51	34.251
7,500.0	7,456.4	7,582.3	7,456.4		24.7	30.6	86.62	307.2	1,206.4	1,833.5	1,779.8	53.71	34.137
7,600.0	7,556.4	7,682.3	7,556.4		24.7	30.6	86.62	307.2	1,206.4	1,833.5	1,779.7	53.78	34.095
7,700.0	7,656.4	7,782.3	7,656.4		24.8	30.7	86.62	307.2	1,206.4	1,833.5	1,779.6	53.85	34.050
7,800.0	7,756.4	7,882.3	7,756.4		24.8	30.7	86.62	307.2	1,206.4	1,833.5	1,779.6	53.92	34.006
7,900.0	7,856.4	7,982.3	7,856.4		24.8	30.7	86.62	307.2	1,206.4	1,833.5	1,779.5	53.99	33.962
8,000.0	7,956.4	8,082.3	7,956.4		24.9	30.7	86.62	307.2	1,206.4	1,833.5	1,779.4	54.06	33.917
8,100.0	8,056.4	8,182.3	8,056.4		24.9	30.8	86.62	307.2	1,206.4	1,833.5	1,779.3	54.13	33.873
8,200.0	8,156.4	8,282.3	8,156.4		25.0	30.8	86.62	307.2	1,206.4	1,833.5	1,779.3	54.20	33.828
8,300.0	8,256.4	8,382.3	8,256.4		25.0	30.8	86.62	307.2	1,206.4	1,833.5	1,779.2	54.27	33.783
8,400.0	8,356.4	8,482.3	8,356.4		25.0	30.9	86.62	307.2	1,206.4	1,833.5	1,779.1	54.34	33.738
8,500.0	8,456.4	8,582.3	8,456.4		25.1	30.9	86.62	307.2	1,206.4	1,833.5	1,779.1	54.42	33.693
8,600.0	8,556.4	8,682.3	8,556.4		25.1	30.9	86.62	307.2	1,206.4	1,833.5	1,779.0	54.49	33.648
8,700.0	8,656.4	8,782.3	8,656.4		25.2	31.0	86.62	307.2	1,206.4	1,833.5	1,778.9	54.56	33.602
8,800.0	8,756.4	8,882.3	8,756.4		25.2	31.0	86.62	307.2	1,206.4	1,833.5	1,778.8	54.64	33.557
8,900.0	8,856.4	8,982.3	8,856.4		25.3	31.0	86.62	307.2	1,206.4	1,833.5	1,778.8	54.71	33.511
9,000.0	8,956.4	9,082.3	8,956.4		25.3	31.1	86.62	307.2	1,206.4	1,833.5	1,778.7	54.79	33.465
9,100.0	9,056.4	9,182.3	9,056.4		25.3	31.1	86.62	307.2	1,206.4	1,833.5	1,778.6	54.86	33.420
9,200.0	9,156.4	9,282.3	9,156.4		25.4	31.1	86.62	307.2	1,206.4	1,833.5	1,778.5	54.94	33.374
9,300.0	9,256.4	9,382.3	9,256.4		25.4	31.2	86.62	307.2	1,206.4	1,833.5	1,778.5	55.01	33.328
9,400.0	9,356.4	9,482.3	9,356.4		25.5	31.2	86.62	307.2	1,206.4	1,833.5	1,778.4	55.09	33.282
9,500.0	9,456.4	9,582.3	9,456.4		25.5	31.2	86.62	307.2	1,206.4	1,833.5	1,778.3	55.17	33.235
9,600.0	9,556.4	9,682.3	9,556.4		25.6	31.3	86.62	307.2	1,206.4	1,833.5	1,778.2	55.24	33.189
9,700.0	9,656.4	9,782.3	9,656.4		25.6	31.3	86.62	307.2	1,206.4	1,833.5	1,778.2	55.32	33.143
9,800.0	9,756.4	9,882.3	9,756.4		25.6	31.3	86.62	307.2	1,206.4	1,833.5	1,778.1	55.40	33.096
9,900.0	9,856.4	9,982.3	9,856.4		25.7	31.4	86.62	307.2	1,206.4	1,833.5	1,778.0	55.48	33.050
10,000.0	9,956.4	10,082.3	9,956.4		25.7	31.4	86.62	307.2	1,206.4	1,833.5	1,777.9	55.55	33.003
10,100.0	10,056.4	10,182.3	10,056.4		25.8	31.4	86.62	307.2	1,206.4	1,833.5	1,777.8	55.63	32.957

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *HENNIN FED COM #702H - Slot HENNIN FED COM #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	WELL @ 3220.0usft (Original Well Elev)
Reference Site:	HENNIN PROJECT	MD Reference:	WELL @ 3220.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*HENNIN FED COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: HENNIN PROJECT - *HENNIN FED COM #802H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
10,200.0	10,156.4	10,282.3	10,156.4	25.8	31.5	86.62	307.2	1,206.4	1,833.5	1,777.8	55.71	32.910	
10,300.0	10,256.4	10,382.3	10,256.4	25.9	31.5	86.62	307.2	1,206.4	1,833.5	1,777.7	55.79	32.863	
10,400.0	10,356.4	10,482.3	10,356.4	25.9	31.5	86.62	307.2	1,206.4	1,833.5	1,777.6	55.87	32.816	
10,500.0	10,456.4	10,582.3	10,456.4	26.0	31.6	86.62	307.2	1,206.4	1,833.5	1,777.5	55.95	32.769	
10,600.0	10,556.4	10,682.3	10,556.4	26.0	31.6	86.62	307.2	1,206.4	1,833.5	1,777.4	56.03	32.722	
10,700.0	10,656.4	10,782.3	10,656.4	26.0	31.7	86.62	307.2	1,206.4	1,833.5	1,777.4	56.11	32.675	
10,800.0	10,756.4	10,882.3	10,756.4	26.1	31.7	86.62	307.2	1,206.4	1,833.5	1,777.3	56.19	32.628	
10,900.0	10,856.4	10,982.3	10,856.4	26.1	31.7	86.62	307.2	1,206.4	1,833.5	1,777.2	56.28	32.580	
11,000.0	10,956.4	11,082.3	10,956.4	26.2	31.8	86.62	307.2	1,206.4	1,833.5	1,777.1	56.36	32.533	
11,100.0	11,056.4	11,182.3	11,056.4	26.2	31.8	86.62	307.2	1,206.4	1,833.5	1,777.0	56.44	32.486	
11,200.0	11,156.4	11,282.3	11,156.4	26.3	31.8	86.62	307.2	1,206.4	1,833.5	1,777.0	56.52	32.438	
11,300.0	11,256.4	11,382.3	11,256.4	26.3	31.9	86.62	307.2	1,206.4	1,833.5	1,776.9	56.61	32.391	
11,400.0	11,356.4	11,482.3	11,356.4	26.4	31.9	86.62	307.2	1,206.4	1,833.5	1,776.8	56.69	32.343	
11,500.0	11,456.4	11,582.3	11,456.4	26.4	31.9	86.62	307.2	1,206.4	1,833.5	1,776.7	56.77	32.295	
11,600.0	11,556.4	11,682.3	11,556.4	26.5	32.0	86.62	307.2	1,206.4	1,833.5	1,776.6	56.86	32.248	
11,700.0	11,656.4	11,782.3	11,656.4	26.5	32.0	86.62	307.2	1,206.4	1,833.5	1,776.5	56.94	32.200	
11,800.0	11,756.4	11,882.3	11,756.4	26.6	32.1	86.62	307.2	1,206.4	1,833.5	1,776.5	57.02	32.152	
11,900.0	11,856.4	11,982.3	11,856.4	26.6	32.1	86.62	307.2	1,206.4	1,833.5	1,776.4	57.11	32.104	
12,000.0	11,956.4	12,082.3	11,956.4	26.7	32.1	86.62	307.2	1,206.4	1,833.5	1,776.3	57.19	32.057	
12,100.0	12,056.4	12,182.3	12,056.4	26.7	32.2	86.62	307.2	1,206.4	1,833.5	1,776.2	57.28	32.009	
12,104.4	12,060.8	12,186.7	12,060.8	26.7	32.2	-92.84	307.2	1,206.4	1,833.5	1,776.2	57.28	32.007	
12,200.0	12,156.3	12,282.2	12,156.3	26.7	32.2	-92.87	307.2	1,206.4	1,833.5	1,776.2	57.34	31.974	
12,300.0	12,254.6	12,380.5	12,254.6	26.6	32.2	-93.29	307.2	1,206.4	1,834.5	1,777.1	57.37	31.974	
12,400.0	12,347.1	12,473.0	12,347.1	26.4	32.3	-94.05	307.2	1,206.4	1,837.1	1,779.7	57.39	32.010	
12,500.0	12,429.8	12,555.7	12,429.8	26.3	32.3	-94.85	307.2	1,206.4	1,842.4	1,785.0	57.39	32.104	
12,600.0	12,499.1	12,625.0	12,499.1	26.2	32.3	-95.27	307.2	1,206.4	1,851.7	1,794.4	57.35	32.290	
12,700.0	12,551.9	12,719.4	12,593.3	26.1	32.3	-96.01	303.3	1,206.5	1,865.9	1,808.7	57.17	32.639	
12,800.0	12,585.9	12,884.3	12,752.0	26.1	32.1	-98.06	260.6	1,206.9	1,883.2	1,826.4	56.78	33.166	
12,900.0	12,599.7	13,393.4	13,077.9	26.1	31.9	-104.76	-108.3	1,210.3	1,897.6	1,840.9	56.60	33.523	
13,000.0	12,600.0	13,632.1	13,100.0	26.2	32.1	-105.27	-345.0	1,212.6	1,898.2	1,841.5	56.79	33.426	
13,100.0	12,600.0	13,732.1	13,100.0	26.3	32.3	-105.27	-445.0	1,213.5	1,898.2	1,841.2	57.00	33.300	
13,200.0	12,600.0	13,832.1	13,100.0	26.4	32.5	-105.27	-545.0	1,214.4	1,898.2	1,841.0	57.27	33.145	
13,300.0	12,600.0	13,932.1	13,100.0	26.6	32.7	-105.27	-645.0	1,215.4	1,898.2	1,840.7	57.59	32.963	
13,400.0	12,600.0	14,032.1	13,100.0	26.7	33.0	-105.27	-744.9	1,216.3	1,898.2	1,840.3	57.95	32.756	
13,500.0	12,600.0	14,132.1	13,100.0	26.9	33.3	-105.27	-844.9	1,217.3	1,898.2	1,839.9	58.36	32.525	
13,600.0	12,600.0	14,232.1	13,100.0	27.1	33.6	-105.27	-944.9	1,218.2	1,898.2	1,839.4	58.82	32.271	
13,700.0	12,600.0	14,332.1	13,100.0	27.3	33.9	-105.27	-1,044.9	1,219.2	1,898.2	1,838.9	59.33	31.996	
13,800.0	12,600.0	14,432.1	13,100.0	27.6	34.2	-105.27	-1,144.9	1,220.1	1,898.2	1,838.3	59.88	31.703	
13,900.0	12,600.0	14,532.1	13,100.0	27.8	34.6	-105.27	-1,244.9	1,221.0	1,898.2	1,837.8	60.47	31.392	
14,000.0	12,600.0	14,632.1	13,100.0	28.1	35.0	-105.27	-1,344.9	1,222.0	1,898.2	1,837.1	61.10	31.066	
14,100.0	12,600.0	14,732.1	13,100.0	28.4	35.4	-105.27	-1,444.9	1,222.9	1,898.2	1,836.4	61.78	30.726	
14,200.0	12,600.0	14,832.1	13,100.0	28.7	35.8	-105.27	-1,544.9	1,223.9	1,898.2	1,835.7	62.49	30.374	
14,300.0	12,600.0	14,932.1	13,100.0	29.0	36.3	-105.27	-1,644.9	1,224.8	1,898.2	1,835.0	63.25	30.013	
14,400.0	12,600.0	15,032.1	13,100.0	29.4	36.8	-105.27	-1,744.9	1,225.7	1,898.2	1,834.2	64.04	29.643	
14,500.0	12,600.0	15,132.1	13,100.0	29.7	37.3	-105.27	-1,844.9	1,226.7	1,898.2	1,833.3	64.86	29.265	
14,600.0	12,600.0	15,232.1	13,100.0	30.1	37.8	-105.27	-1,944.9	1,227.6	1,898.2	1,832.5	65.72	28.883	
14,700.0	12,600.0	15,332.1	13,100.0	30.5	38.3	-105.27	-2,044.9	1,228.6	1,898.2	1,831.6	66.61	28.496	
14,800.0	12,600.0	15,432.1	13,100.0	30.9	38.8	-105.27	-2,144.9	1,229.5	1,898.2	1,830.7	67.54	28.106	
14,900.0	12,600.0	15,532.1	13,100.0	31.3	39.4	-105.27	-2,244.9	1,230.4	1,898.2	1,829.7	68.49	27.715	
15,000.0	12,600.0	15,632.1	13,100.0	31.7	40.0	-105.27	-2,344.9	1,231.4	1,898.2	1,828.7	69.47	27.323	
15,100.0	12,600.0	15,732.1	13,100.0	32.1	40.5	-105.27	-2,444.9	1,232.3	1,898.2	1,827.7	70.48	26.932	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *HENNIN FED COM #702H - Slot HENNIN FED COM #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	WELL @ 3220.0usft (Original Well Elev)
Reference Site:	HENNIN PROJECT	MD Reference:	WELL @ 3220.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*HENNIN FED COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: HENNIN PROJECT - *HENNIN FED COM #802H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
15,200.0	12,600.0	15,832.1	13,100.0	32.6	41.1	-105.27	-2,544.9	1,233.3	1,898.2	1,826.7	71.52	26.541	
15,300.0	12,600.0	15,932.1	13,100.0	33.0	41.8	-105.27	-2,644.9	1,234.2	1,898.2	1,825.6	72.58	26.153	
15,400.0	12,600.0	16,032.1	13,100.0	33.5	42.4	-105.27	-2,744.9	1,235.2	1,898.2	1,824.5	73.67	25.767	
15,500.0	12,600.0	16,132.1	13,100.0	34.0	43.0	-105.27	-2,844.9	1,236.1	1,898.2	1,823.4	74.78	25.385	
15,600.0	12,600.0	16,232.1	13,100.0	34.5	43.7	-105.27	-2,944.8	1,237.0	1,898.2	1,822.3	75.91	25.007	
15,700.0	12,600.0	16,332.1	13,100.0	35.0	44.3	-105.27	-3,044.8	1,238.0	1,898.2	1,821.1	77.06	24.633	
15,800.0	12,600.0	16,432.1	13,100.0	35.5	45.0	-105.27	-3,144.8	1,238.9	1,898.2	1,819.9	78.23	24.263	
15,900.0	12,600.0	16,532.1	13,100.0	36.0	45.7	-105.27	-3,244.8	1,239.9	1,898.2	1,818.7	79.42	23.899	
16,000.0	12,600.0	16,632.1	13,100.0	36.5	46.4	-105.27	-3,344.8	1,240.8	1,898.2	1,817.5	80.63	23.540	
16,100.0	12,600.0	16,732.1	13,100.0	37.0	47.1	-105.27	-3,444.8	1,241.7	1,898.2	1,816.3	81.86	23.187	
16,200.0	12,600.0	16,832.1	13,100.0	37.6	47.8	-105.27	-3,544.8	1,242.7	1,898.2	1,815.1	83.11	22.840	
16,300.0	12,600.0	16,932.1	13,100.0	38.1	48.5	-105.27	-3,644.8	1,243.6	1,898.2	1,813.8	84.37	22.498	
16,400.0	12,600.0	17,032.1	13,100.0	38.7	49.2	-105.27	-3,744.8	1,244.6	1,898.2	1,812.5	85.65	22.163	
16,500.0	12,600.0	17,132.1	13,100.0	39.2	50.0	-105.27	-3,844.8	1,245.5	1,898.2	1,811.2	86.94	21.834	
16,600.0	12,600.0	17,232.1	13,100.0	39.8	50.7	-105.27	-3,944.8	1,246.5	1,898.2	1,809.9	88.24	21.511	
16,700.0	12,600.0	17,332.1	13,100.0	40.4	51.5	-105.27	-4,044.8	1,247.4	1,898.2	1,808.6	89.56	21.194	
16,800.0	12,600.0	17,432.1	13,100.0	41.0	52.2	-105.27	-4,144.8	1,248.3	1,898.2	1,807.3	90.89	20.883	
16,900.0	12,600.0	17,532.1	13,100.0	41.6	53.0	-105.27	-4,244.8	1,249.3	1,898.1	1,805.9	92.24	20.579	
17,000.0	12,600.0	17,632.1	13,100.0	42.2	53.8	-105.27	-4,344.8	1,250.2	1,898.1	1,804.6	93.59	20.281	
17,100.0	12,600.0	17,732.1	13,100.0	42.8	54.5	-105.27	-4,444.8	1,251.2	1,898.1	1,803.2	94.96	19.989	
17,200.0	12,600.0	17,832.1	13,100.0	43.4	55.3	-105.27	-4,544.8	1,252.1	1,898.1	1,801.8	96.34	19.703	
17,300.0	12,600.0	17,932.1	13,100.0	44.0	56.1	-105.27	-4,644.8	1,253.0	1,898.1	1,800.4	97.72	19.423	
17,400.0	12,600.0	18,032.1	13,100.0	44.6	56.9	-105.27	-4,744.8	1,254.0	1,898.1	1,799.0	99.12	19.149	
17,500.0	12,600.0	18,132.1	13,100.0	45.2	57.7	-105.27	-4,844.8	1,254.9	1,898.1	1,797.6	100.53	18.881	
17,600.0	12,600.0	18,232.1	13,100.0	45.8	58.5	-105.27	-4,944.8	1,255.9	1,898.1	1,796.2	101.95	18.619	
17,700.0	12,600.0	18,332.1	13,100.0	46.4	59.3	-105.27	-5,044.8	1,256.8	1,898.1	1,794.8	103.37	18.362	
17,800.0	12,600.0	18,432.1	13,100.0	47.1	60.1	-105.27	-5,144.8	1,257.7	1,898.1	1,793.3	104.80	18.111	
17,900.0	12,600.0	18,532.1	13,100.0	47.7	60.9	-105.27	-5,244.7	1,258.7	1,898.1	1,791.9	106.25	17.865	
18,000.0	12,600.0	18,632.1	13,100.0	48.3	61.8	-105.27	-5,344.7	1,259.6	1,898.1	1,790.4	107.69	17.625	
18,100.0	12,600.0	18,732.1	13,100.0	49.0	62.6	-105.27	-5,444.7	1,260.6	1,898.1	1,789.0	109.15	17.390	
18,200.0	12,600.0	18,832.1	13,100.0	49.6	63.4	-105.27	-5,544.7	1,261.5	1,898.1	1,787.5	110.61	17.160	
18,300.0	12,600.0	18,932.1	13,100.0	50.3	64.2	-105.27	-5,644.7	1,262.5	1,898.1	1,786.0	112.08	16.935	
18,400.0	12,600.0	19,032.1	13,100.0	50.9	65.1	-105.27	-5,744.7	1,263.4	1,898.1	1,784.6	113.56	16.714	
18,500.0	12,600.0	19,132.1	13,100.0	51.6	65.9	-105.27	-5,844.7	1,264.3	1,898.1	1,783.1	115.04	16.499	
18,600.0	12,600.0	19,232.1	13,100.0	52.2	66.8	-105.27	-5,944.7	1,265.3	1,898.1	1,781.6	116.53	16.288	
18,700.0	12,600.0	19,332.1	13,100.0	52.9	67.6	-105.27	-6,044.7	1,266.2	1,898.1	1,780.1	118.03	16.082	
18,800.0	12,600.0	19,432.1	13,100.0	53.6	68.5	-105.27	-6,144.7	1,267.2	1,898.1	1,778.6	119.53	15.880	
18,900.0	12,600.0	19,532.1	13,100.0	54.2	69.3	-105.27	-6,244.7	1,268.1	1,898.1	1,777.1	121.03	15.682	
19,000.0	12,600.0	19,632.1	13,100.0	54.9	70.2	-105.27	-6,344.7	1,269.0	1,898.1	1,775.6	122.55	15.489	
19,100.0	12,600.0	19,732.1	13,100.0	55.6	71.0	-105.27	-6,444.7	1,270.0	1,898.1	1,774.0	124.06	15.300	
19,200.0	12,600.0	19,832.1	13,100.0	56.2	71.9	-105.27	-6,544.7	1,270.9	1,898.1	1,772.5	125.58	15.114	
19,300.0	12,600.0	19,932.1	13,100.0	56.9	72.7	-105.27	-6,644.7	1,271.9	1,898.1	1,771.0	127.11	14.933	
19,400.0	12,600.0	20,032.1	13,100.0	57.6	73.6	-105.27	-6,744.7	1,272.8	1,898.1	1,769.4	128.64	14.755	
19,500.0	12,600.0	20,132.1	13,100.0	58.3	74.5	-105.27	-6,844.7	1,273.8	1,898.1	1,767.9	130.17	14.581	
19,600.0	12,600.0	20,232.1	13,100.0	59.0	75.3	-105.27	-6,944.7	1,274.7	1,898.1	1,766.4	131.71	14.411	
19,700.0	12,600.0	20,332.1	13,100.0	59.6	76.2	-105.27	-7,044.7	1,275.6	1,898.1	1,764.8	133.25	14.244	
19,800.0	12,600.0	20,432.1	13,100.0	60.3	77.1	-105.27	-7,144.7	1,276.6	1,898.1	1,763.3	134.80	14.081	
19,900.0	12,600.0	20,532.1	13,100.0	61.0	78.0	-105.27	-7,244.7	1,277.5	1,898.1	1,761.7	136.35	13.921	
20,000.0	12,600.0	20,632.1	13,100.0	61.7	78.8	-105.27	-7,344.7	1,278.5	1,898.1	1,760.2	137.90	13.764	
20,100.0	12,600.0	20,732.1	13,100.0	62.4	79.7	-105.27	-7,444.7	1,279.4	1,898.1	1,758.6	139.46	13.610	
20,200.0	12,600.0	20,832.1	13,100.0	63.1	80.6	-105.27	-7,544.6	1,280.3	1,898.1	1,757.0	141.02	13.459	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *HENNIN FED COM #702H - Slot HENNIN FED COM #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	WELL @ 3220.0usft (Original Well Elev)
Reference Site:	HENNIN PROJECT	MD Reference:	WELL @ 3220.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*HENNIN FED COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: HENNIN PROJECT - *HENNIN FED COM #802H - OWB - PWP0											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1											Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)		
20,300.0	12,600.0	20,932.1	13,100.0	63.8	81.5	-105.27	-7,644.6	1,281.3	1,898.1	1,755.5	142.59	13.312
20,400.0	12,600.0	21,032.1	13,100.0	64.5	82.4	-105.27	-7,744.6	1,282.2	1,898.1	1,753.9	144.15	13.167
20,500.0	12,600.0	21,132.1	13,100.0	65.2	83.3	-105.27	-7,844.6	1,283.2	1,898.1	1,752.3	145.72	13.025
20,600.0	12,600.0	21,232.1	13,100.0	65.9	84.2	-105.27	-7,944.6	1,284.1	1,898.1	1,750.8	147.30	12.886
20,700.0	12,600.0	21,332.1	13,100.0	66.6	85.1	-105.27	-8,044.6	1,285.1	1,898.1	1,749.2	148.87	12.750
20,800.0	12,600.0	21,432.1	13,100.0	67.3	85.9	-105.27	-8,144.6	1,286.0	1,898.1	1,747.6	150.45	12.616
20,900.0	12,600.0	21,532.1	13,100.0	68.0	86.8	-105.27	-8,244.6	1,286.9	1,898.0	1,746.0	152.03	12.485
21,000.0	12,600.0	21,632.1	13,100.0	68.7	87.7	-105.27	-8,344.6	1,287.9	1,898.0	1,744.4	153.62	12.356
21,100.0	12,600.0	21,732.1	13,100.0	69.4	88.6	-105.27	-8,444.6	1,288.8	1,898.0	1,742.8	155.20	12.230
21,200.0	12,600.0	21,832.1	13,100.0	70.1	89.5	-105.27	-8,544.6	1,289.8	1,898.0	1,741.3	156.79	12.106
21,300.0	12,600.0	21,932.1	13,100.0	70.8	90.4	-105.27	-8,644.6	1,290.7	1,898.0	1,739.7	158.38	11.984
21,400.0	12,600.0	22,032.1	13,100.0	71.5	91.3	-105.27	-8,744.6	1,291.6	1,898.0	1,738.1	159.98	11.865
21,500.0	12,600.0	22,132.1	13,100.0	72.2	92.2	-105.27	-8,844.6	1,292.6	1,898.0	1,736.5	161.57	11.747
21,600.0	12,600.0	22,232.1	13,100.0	72.9	93.1	-105.27	-8,944.6	1,293.5	1,898.0	1,734.9	163.17	11.632
21,700.0	12,600.0	22,332.1	13,100.0	73.7	94.0	-105.27	-9,044.6	1,294.5	1,898.0	1,733.3	164.77	11.519
21,800.0	12,600.0	22,432.1	13,100.0	74.4	95.0	-105.27	-9,144.6	1,295.4	1,898.0	1,731.7	166.37	11.408
21,900.0	12,600.0	22,532.1	13,100.0	75.1	95.9	-105.27	-9,244.6	1,296.3	1,898.0	1,730.0	167.98	11.299
22,000.0	12,600.0	22,632.1	13,100.0	75.8	96.8	-105.27	-9,344.6	1,297.3	1,898.0	1,728.4	169.58	11.192
22,100.0	12,600.0	22,732.1	13,100.0	76.5	97.7	-105.27	-9,444.6	1,298.2	1,898.0	1,726.8	171.19	11.087
22,200.0	12,600.0	22,832.1	13,100.0	77.2	98.6	-105.27	-9,544.6	1,299.2	1,898.0	1,725.2	172.80	10.984
22,300.0	12,600.0	22,932.1	13,100.0	78.0	99.5	-105.27	-9,644.6	1,300.1	1,898.0	1,723.6	174.41	10.882
22,400.0	12,600.0	23,032.1	13,100.0	78.7	100.4	-105.27	-9,744.5	1,301.1	1,898.0	1,722.0	176.03	10.783
22,500.0	12,600.0	23,132.1	13,100.0	79.4	101.3	-105.27	-9,844.5	1,302.0	1,898.0	1,720.4	177.64	10.685
22,600.0	12,600.0	23,232.1	13,100.0	80.1	102.2	-105.27	-9,944.5	1,302.9	1,898.0	1,718.8	179.26	10.588
22,700.0	12,600.0	23,332.1	13,100.0	80.8	103.2	-105.27	-10,044.5	1,303.9	1,898.0	1,717.1	180.87	10.493
22,800.0	12,600.0	23,432.1	13,100.0	81.6	104.1	-105.27	-10,144.5	1,304.8	1,898.0	1,715.5	182.49	10.400
22,900.0	12,600.0	23,532.1	13,100.0	82.3	105.0	-105.27	-10,244.5	1,305.8	1,898.0	1,713.9	184.12	10.309
23,000.0	12,600.0	23,632.1	13,100.0	83.0	105.9	-105.27	-10,344.5	1,306.7	1,898.0	1,712.3	185.74	10.219
23,100.0	12,600.0	23,732.1	13,100.0	83.7	106.8	-105.27	-10,444.5	1,307.6	1,898.0	1,710.6	187.36	10.130
23,200.0	12,600.0	23,832.1	13,100.0	84.5	107.7	-105.27	-10,544.5	1,308.6	1,898.0	1,709.0	188.99	10.043
23,300.0	12,600.0	23,932.1	13,100.0	85.2	108.7	-105.27	-10,644.5	1,309.5	1,898.0	1,707.4	190.62	9.957
23,400.0	12,600.0	24,032.1	13,100.0	85.9	109.6	-105.27	-10,744.5	1,310.5	1,898.0	1,705.7	192.24	9.873
23,481.2	12,600.0	24,113.3	13,100.0	86.5	110.3	-105.27	-10,825.7	1,311.2	1,898.0	1,704.4	193.57	9.805

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *HENNIN FED COM #702H - Slot HENNIN FED COM #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	WELL @ 3220.0usft (Original Well Elev)
Reference Site:	HENNIN PROJECT	MD Reference:	WELL @ 3220.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*HENNIN FED COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: HENNIN PROJECT - HENNIN FED #12H - OWB - AWP											Offset Site Error:	0.0 usft
Survey Program: 96-Standard Keeper 104, 11735-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Rule Assigned:												
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)		Warning
21,700.0	12,600.0	11,989.5	12,000.9	73.7	10.4	-12.57	-10,936.9	-385.2	1,974.2	1,930.9	43.27	45.623
21,800.0	12,600.0	12,007.0	12,017.4	74.4	10.4	-12.85	-10,942.6	-385.8	1,879.6	1,835.6	43.97	42.745
21,900.0	12,600.0	12,007.0	12,017.4	75.1	10.4	-12.85	-10,942.6	-385.8	1,785.1	1,739.8	45.24	39.455
22,000.0	12,600.0	12,007.0	12,017.4	75.8	10.4	-12.85	-10,942.6	-385.8	1,691.2	1,644.5	46.71	36.205
22,100.0	12,600.0	12,007.0	12,017.4	76.5	10.4	-12.85	-10,942.6	-385.8	1,598.0	1,549.6	48.41	33.007
22,200.0	12,600.0	12,020.1	12,029.7	77.2	10.5	-13.06	-10,947.4	-386.3	1,505.4	1,455.6	49.83	30.208
22,300.0	12,600.0	12,038.0	12,046.0	78.0	10.5	-13.37	-10,954.7	-386.9	1,413.9	1,362.7	51.23	27.599
22,400.0	12,600.0	12,038.0	12,046.0	78.7	10.5	-13.37	-10,954.7	-386.9	1,323.0	1,269.2	53.77	24.606
22,500.0	12,600.0	12,038.0	12,046.0	79.4	10.5	-13.37	-10,954.7	-386.9	1,233.5	1,176.7	56.77	21.727
22,600.0	12,600.0	12,069.0	12,073.4	80.1	10.5	-13.92	-10,969.1	-387.9	1,145.2	1,087.0	58.24	19.663
22,700.0	12,600.0	12,069.0	12,073.4	80.8	10.5	-13.92	-10,969.1	-387.9	1,058.2	996.0	62.23	17.004
22,800.0	12,600.0	12,100.0	12,099.8	81.6	10.6	-14.52	-10,985.3	-388.8	973.2	908.8	64.40	15.112
22,900.0	12,600.0	12,112.3	12,110.1	82.3	10.6	-14.77	-10,992.0	-389.1	889.9	821.2	68.68	12.956
23,000.0	12,600.0	12,132.0	12,126.2	83.0	10.6	-15.20	-11,003.3	-389.4	808.8	735.8	73.05	11.072
23,100.0	12,600.0	12,164.0	12,151.6	83.7	10.6	-15.95	-11,022.8	-389.7	730.5	653.6	76.88	9.503
23,200.0	12,600.0	12,195.0	12,175.0	84.5	10.7	-16.77	-11,043.1	-389.7	655.7	574.1	81.60	8.036
23,300.0	12,600.0	12,225.0	12,196.7	85.2	10.7	-17.60	-11,063.9	-389.6	584.6	497.2	87.42	6.687
23,400.0	12,600.0	12,271.4	12,228.8	85.9	10.7	-18.99	-11,097.3	-389.5	517.2	425.3	91.91	5.627
23,481.2	12,600.0	12,306.0	12,251.3	86.5	10.8	-20.09	-11,123.6	-389.5	466.1	369.4	96.75	4.818 CC, ES, SF

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *HENNIN FED COM #702H - Slot HENNIN FED COM #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	WELL @ 3220.0usft (Original Well Elev)
Reference Site:	HENNIN PROJECT	MD Reference:	WELL @ 3220.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*HENNIN FED COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: HENNIN PROJECT - HENNIN FED #24H - OWB - AWP													Offset Site Error: 0.0 usft	
Survey Program: Reference		100-Standard Keeper 104, 11883-r.5 MWD+IFR1+MS						Rule Assigned:					Offset Well Error: 3.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
21,700.0	12,600.0	12,229.0	12,243.3	73.7	11.9	20.07	-10,961.7	-648.8	1,936.3	1,897.1	39.21	49.382		
21,800.0	12,600.0	12,229.0	12,243.3	74.4	11.9	20.07	-10,961.7	-648.8	1,838.4	1,798.6	39.76	46.240		
21,900.0	12,600.0	12,229.0	12,243.3	75.1	11.9	20.07	-10,961.7	-648.8	1,740.7	1,700.3	40.40	43.089		
22,000.0	12,600.0	12,244.1	12,258.2	75.8	12.0	20.88	-10,964.5	-648.9	1,642.8	1,602.0	40.85	40.212		
22,100.0	12,600.0	12,261.0	12,274.6	76.5	12.0	21.83	-10,968.5	-648.8	1,545.8	1,504.5	41.31	37.416		
22,200.0	12,600.0	12,261.0	12,274.6	77.2	12.0	21.83	-10,968.5	-648.8	1,448.6	1,406.3	42.24	34.294		
22,300.0	12,600.0	12,261.0	12,274.6	78.0	12.0	21.83	-10,968.5	-648.8	1,351.7	1,308.4	43.38	31.163		
22,400.0	12,600.0	12,261.0	12,274.6	78.7	12.0	21.83	-10,968.5	-648.8	1,255.4	1,210.6	44.79	28.032		
22,500.0	12,600.0	12,261.0	12,274.6	79.4	12.0	21.83	-10,968.5	-648.8	1,159.7	1,113.2	46.56	24.911		
22,600.0	12,600.0	12,273.6	12,286.8	80.1	12.0	22.59	-10,972.0	-648.7	1,064.5	1,016.4	48.07	22.144		
22,700.0	12,600.0	12,291.0	12,303.2	80.8	12.0	23.67	-10,977.6	-648.5	970.4	920.8	49.62	19.557		
22,800.0	12,600.0	12,291.0	12,303.2	81.6	12.0	23.67	-10,977.6	-648.5	876.8	823.9	52.90	16.572		
22,900.0	12,600.0	12,291.0	12,303.2	82.3	12.0	23.67	-10,977.6	-648.5	784.7	727.4	57.26	13.704		
23,000.0	12,600.0	12,322.0	12,331.7	83.0	12.0	25.79	-10,989.7	-647.9	694.0	634.6	59.41	11.681		
23,100.0	12,600.0	12,322.0	12,331.7	83.7	12.0	25.79	-10,989.7	-647.9	605.2	538.7	66.51	9.100		
23,200.0	12,600.0	12,353.0	12,359.2	84.5	12.1	28.23	-11,003.9	-647.4	518.8	447.7	71.04	7.302		
23,300.0	12,600.0	12,385.0	12,386.7	85.2	12.1	31.22	-11,020.3	-647.2	435.7	358.6	77.12	5.650		
23,400.0	12,600.0	12,416.0	12,412.5	85.9	12.1	34.62	-11,037.4	-647.2	356.7	270.6	86.09	4.143		
23,481.2	12,600.0	12,448.0	12,438.2	86.5	12.1	38.63	-11,056.6	-646.9	296.7	202.3	94.40	3.143	CC, ES, SF	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *HENNIN FED COM #702H - Slot HENNIN FED COM #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	WELL @ 3220.0usft (Original Well Elev)
Reference Site:	HENNIN PROJECT	MD Reference:	WELL @ 3220.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*HENNIN FED COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: HENNIN PROJECT - JAZZBASS 34 FEDERAL 003H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 100-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
16,700.0	12,600.0	16,226.0	12,277.5	40.4	36.8	17.23	-5,948.4	-665.8	1,915.5	1,875.8	39.64	48.325	
16,800.0	12,600.0	16,226.0	12,277.5	41.0	36.8	17.23	-5,948.4	-665.8	1,817.1	1,777.3	39.79	45.668	
16,900.0	12,600.0	16,226.0	12,277.5	41.6	36.8	17.23	-5,948.4	-665.8	1,719.0	1,679.0	39.98	43.001	
17,000.0	12,600.0	16,226.0	12,277.5	42.2	36.8	17.23	-5,948.4	-665.8	1,621.0	1,580.8	40.20	40.320	
17,100.0	12,600.0	16,226.0	12,277.5	42.8	36.8	17.23	-5,948.4	-665.8	1,523.4	1,482.9	40.49	37.623	
17,200.0	12,600.0	16,226.0	12,277.5	43.4	36.8	17.23	-5,948.4	-665.8	1,426.0	1,385.2	40.85	34.906	
17,300.0	12,600.0	16,226.0	12,277.5	44.0	36.8	17.23	-5,948.4	-665.8	1,329.1	1,287.8	41.32	32.166	
17,400.0	12,600.0	16,226.0	12,277.5	44.6	36.8	17.23	-5,948.4	-665.8	1,232.6	1,190.7	41.92	29.401	
17,500.0	12,600.0	16,226.0	12,277.5	45.2	36.8	17.23	-5,948.4	-665.8	1,136.8	1,094.1	42.72	26.609	
17,600.0	12,600.0	16,226.0	12,277.5	45.8	36.8	17.23	-5,948.4	-665.8	1,041.7	997.9	43.78	23.792	
17,700.0	12,600.0	16,226.0	12,277.5	46.4	36.8	17.23	-5,948.4	-665.8	947.7	902.4	45.22	20.957	
17,800.0	12,600.0	16,226.0	12,277.5	47.1	36.8	17.23	-5,948.4	-665.8	855.0	807.8	47.18	18.122	
17,900.0	12,600.0	16,226.0	12,277.5	47.7	36.8	17.23	-5,948.4	-665.8	764.1	714.2	49.88	15.318	
18,000.0	12,600.0	16,226.0	12,277.5	48.3	36.8	17.23	-5,948.4	-665.8	675.9	622.2	53.64	12.599	
18,100.0	12,600.0	16,226.0	12,277.5	49.0	36.8	17.23	-5,948.4	-665.8	591.3	532.5	58.88	10.043	
18,200.0	12,600.0	16,226.0	12,277.5	49.6	36.8	17.23	-5,948.4	-665.8	512.4	446.3	66.09	7.754	
18,300.0	12,600.0	16,226.0	12,277.5	50.3	36.8	17.23	-5,948.4	-665.8	442.2	366.5	75.66	5.844	
18,400.0	12,600.0	16,226.0	12,277.5	50.9	36.8	17.23	-5,948.4	-665.8	385.2	298.0	87.23	4.416	
18,500.0	12,600.0	16,226.0	12,277.5	51.6	36.8	17.23	-5,948.4	-665.8	348.3	249.7	98.56	3.534	
18,600.0	12,600.0	16,199.2	12,278.2	52.2	36.6	17.10	-5,975.1	-664.6	336.9	232.6	104.28	3.231	
18,700.0	12,600.0	16,096.1	12,281.6	52.9	35.9	16.69	-6,078.1	-660.1	332.7	228.3	104.41	3.187	
18,800.0	12,600.0	15,997.0	12,285.2	53.6	35.2	16.34	-6,177.0	-656.0	328.4	223.6	104.77	3.134	
18,900.0	12,600.0	15,897.1	12,288.8	54.2	34.6	15.97	-6,276.8	-651.8	324.0	218.9	105.10	3.083	
19,000.0	12,600.0	15,799.9	12,291.9	54.9	33.9	15.56	-6,373.8	-647.6	320.0	214.4	105.59	3.030	
19,100.0	12,600.0	15,704.0	12,293.7	55.6	33.3	15.00	-6,469.6	-643.0	317.2	211.1	106.13	2.989	
19,200.0	12,600.0	15,604.9	12,294.7	56.2	32.6	14.52	-6,568.6	-639.0	315.4	208.8	106.54	2.960	
19,300.0	12,600.0	15,505.9	12,295.9	56.9	32.0	14.01	-6,667.6	-634.9	313.5	206.5	106.96	2.931	
19,400.0	12,600.0	15,408.1	12,296.3	57.6	31.3	13.48	-6,765.2	-630.9	312.3	204.9	107.45	2.907	
19,500.0	12,600.0	15,305.0	12,296.5	58.3	30.7	12.82	-6,868.2	-626.2	311.3	203.6	107.66	2.891	
19,600.0	12,600.0	15,199.0	12,298.4	59.0	30.0	12.00	-6,974.0	-620.3	308.5	200.8	107.69	2.865	
19,700.0	12,600.0	15,096.3	12,301.7	59.6	29.3	11.05	-7,076.5	-613.5	304.2	196.4	107.85	2.821	
19,800.0	12,600.0	14,996.5	12,305.1	60.3	28.7	9.89	-7,175.9	-605.7	299.7	191.5	108.14	2.771	
19,900.0	12,600.0	14,898.1	12,308.1	61.0	28.1	8.52	-7,273.9	-597.1	295.4	186.9	108.46	2.723	
20,000.0	12,600.0	14,806.5	12,309.4	61.7	27.5	7.12	-7,365.1	-588.8	292.9	183.8	109.13	2.684	
20,032.3	12,600.0	14,777.0	12,309.2	61.9	27.3	6.66	-7,394.5	-586.1	292.7	183.4	109.34	2.677	
20,100.0	12,600.0	14,720.9	12,307.7	62.4	27.0	5.90	-7,450.4	-581.9	294.1	184.1	110.02	2.673	
20,200.0	12,600.0	14,631.1	12,302.1	63.1	26.5	5.28	-7,540.0	-578.3	300.0	189.2	110.75	2.708	
20,300.0	12,600.0	14,512.7	12,295.7	63.8	25.8	4.60	-7,658.1	-574.2	305.3	194.8	110.50	2.763	
20,400.0	12,600.0	14,399.9	12,297.1	64.5	25.1	3.33	-7,770.6	-566.2	303.5	193.5	110.05	2.758	
20,500.0	12,600.0	14,304.4	12,298.6	65.2	24.5	2.04	-7,865.7	-558.5	301.6	191.0	110.52	2.729	
20,600.0	12,600.0	14,203.9	12,299.4	65.9	24.0	0.55	-7,965.8	-549.7	300.7	190.0	110.65	2.717	
20,700.0	12,600.0	14,099.2	12,301.7	66.6	23.4	-1.05	-8,070.1	-540.3	298.5	188.0	110.49	2.701	
20,800.0	12,600.0	14,000.2	12,304.8	67.3	22.9	-2.59	-8,168.7	-531.5	295.6	184.9	110.67	2.671	
20,900.0	12,600.0	13,899.4	12,307.3	68.0	22.4	-4.14	-8,269.1	-522.7	293.5	182.8	110.72	2.651	
21,000.0	12,600.0	13,800.9	12,310.4	68.7	21.9	-5.45	-8,367.2	-515.4	291.0	180.0	111.00	2.621	
21,100.0	12,600.0	13,699.1	12,313.0	69.4	21.4	-6.74	-8,468.7	-508.1	289.1	178.0	111.09	2.602	
21,200.0	12,600.0	13,598.3	12,316.4	70.1	21.0	-7.84	-8,569.3	-502.1	286.3	175.0	111.32	2.572	
21,300.0	12,600.0	13,498.4	12,319.8	70.8	20.5	-8.73	-8,669.0	-497.1	283.6	171.9	111.68	2.540	
21,400.0	12,600.0	13,401.7	12,322.4	71.5	20.2	-9.48	-8,765.6	-492.9	281.5	169.2	112.31	2.506	
21,500.0	12,600.0	13,300.0	12,324.9	72.2	19.9	-10.20	-8,867.2	-488.8	279.6	166.9	112.69	2.481	
21,600.0	12,600.0	13,201.8	12,327.3	72.9	19.7	-10.85	-8,965.2	-485.1	277.6	164.4	113.29	2.451	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *HENNIN FED COM #702H - Slot HENNIN FED COM #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	WELL @ 3220.0usft (Original Well Elev)
Reference Site:	HENNIN PROJECT	MD Reference:	WELL @ 3220.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*HENNIN FED COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: HENNIN PROJECT - JAZZBASS 34 FEDERAL 003H - OWB - AWP											Offset Site Error:	0.0 usft
Survey Program: 100-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)		
21,700.0	12,600.0	13,104.7	12,328.8	73.7	19.5	-11.50	-9,062.2	-481.3	276.8	162.8	113.94	2.429
21,736.1	12,600.0	13,069.6	12,329.1	73.9	19.5	-11.72	-9,097.4	-479.9	276.7	162.5	114.19	2.423
21,800.0	12,600.0	13,005.8	12,329.3	74.4	19.4	-12.11	-9,161.1	-477.4	276.9	162.3	114.55	2.417
21,900.0	12,600.0	12,898.4	12,332.1	75.1	19.3	-12.93	-9,268.4	-473.0	275.0	160.4	114.61	2.399
21,995.0	12,600.0	12,810.4	12,334.4	75.8	19.3	-13.77	-9,356.2	-468.6	273.5	158.1	115.41	2.370 CC
22,000.0	12,600.0	12,806.1	12,334.4	75.8	19.3	-13.81	-9,360.5	-468.3	273.5	158.0	115.47	2.369 ES, SF
22,100.0	12,600.0	12,721.0	12,333.1	76.5	19.2	-14.55	-9,445.5	-463.5	276.2	159.6	116.56	2.369
22,200.0	12,600.0	12,647.7	12,326.5	77.2	19.1	-14.97	-9,518.3	-459.0	286.3	168.8	117.51	2.437
22,300.0	12,600.0	12,579.0	12,313.5	78.0	19.1	-14.89	-9,585.6	-455.3	305.9	188.1	117.76	2.598
22,400.0	12,600.0	12,510.5	12,293.9	78.7	18.9	-14.40	-9,651.1	-452.3	334.6	217.2	117.48	2.848
22,500.0	12,600.0	12,444.6	12,269.9	79.4	18.8	-13.88	-9,712.4	-448.7	371.1	254.4	116.67	3.181
22,600.0	12,600.0	12,390.0	12,246.3	80.1	18.7	-13.47	-9,761.5	-445.1	414.8	300.0	114.72	3.615
22,700.0	12,600.0	12,327.0	12,214.7	80.8	18.6	-12.93	-9,815.8	-440.9	465.1	351.5	113.61	4.094
22,800.0	12,600.0	12,281.0	12,188.6	81.6	18.5	-12.44	-9,853.6	-438.2	521.5	410.4	111.07	4.695
22,900.0	12,600.0	12,233.0	12,159.3	82.3	18.3	-11.93	-9,891.5	-435.5	582.6	473.6	109.02	5.344
23,000.0	12,600.0	12,188.0	12,129.9	83.0	18.2	-11.47	-9,925.5	-432.9	647.8	540.8	106.99	6.055
23,100.0	12,600.0	12,149.9	12,103.6	83.7	18.1	-11.09	-9,952.9	-430.7	716.9	612.2	104.65	6.850
23,200.0	12,600.0	12,107.0	12,072.4	84.5	18.0	-10.68	-9,982.2	-428.2	789.4	686.3	103.10	7.656
23,300.0	12,600.0	12,076.0	12,048.9	85.2	17.9	-10.41	-10,002.4	-426.3	864.6	763.7	100.81	8.576
23,400.0	12,600.0	12,044.0	12,024.1	85.9	17.9	-10.18	-10,022.4	-423.9	942.1	843.2	98.93	9.523
23,481.2	12,600.0	12,023.5	12,007.9	86.5	17.8	-10.08	-10,034.8	-422.0	1,006.6	909.4	97.18	10.358

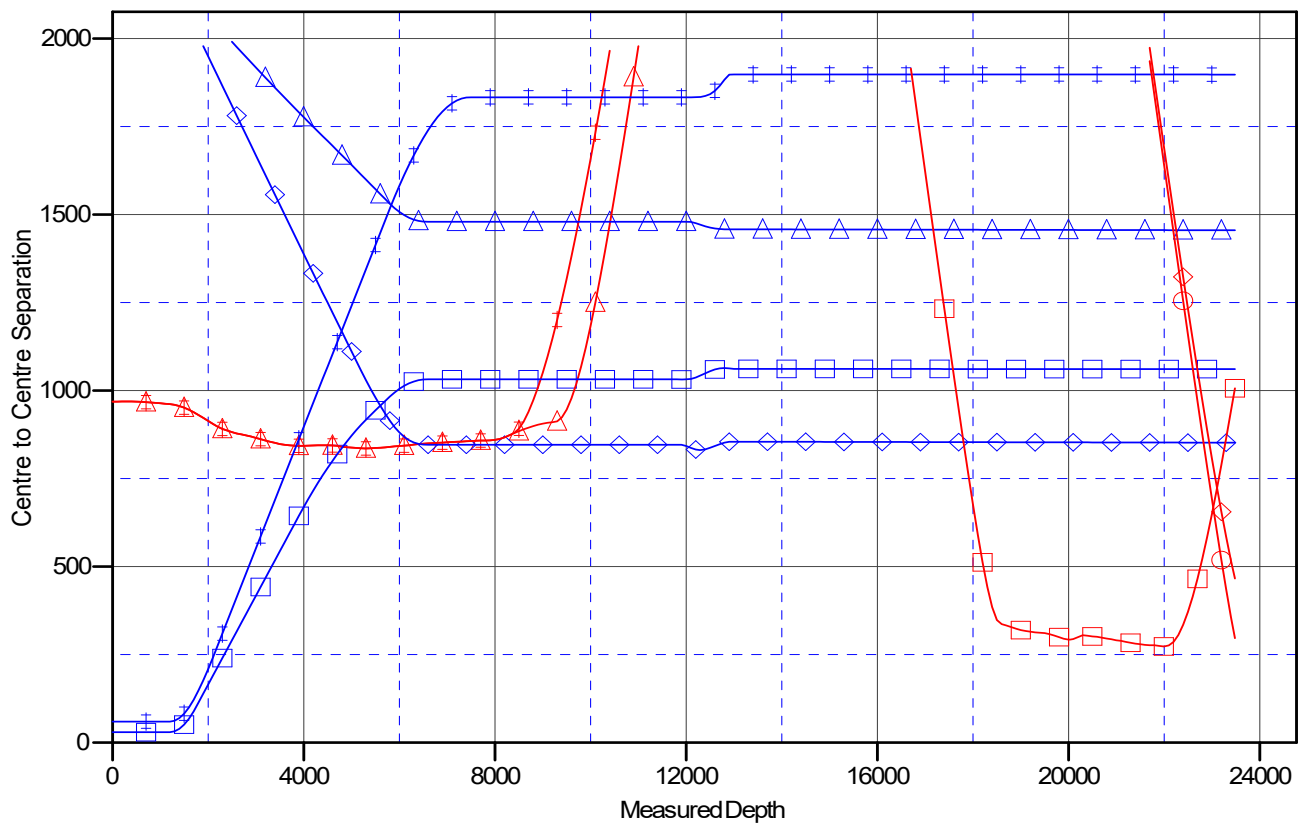
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *HENNIN FED COM #702H - Slot HENNIN FED COM #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	WELL @ 3220.0usft (Original Well Elev)
Reference Site:	HENNIN PROJECT	MD Reference:	WELL @ 3220.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*HENNIN FED COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Reference Depths are relative to WELL @ 3220.0usft (Original Well Ele
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: *HENNIN FED COM #702H - Slot HENNIN FED COM
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.52°

Ladder Plot**LEGEND**

- MUSIC MASTER 27 FED #3H, OWB, ACTUAL WELLPATH V0
- MUSIC MASTER 27 FED #3H, OWB, ACTUAL WELLPATH V0
- *HENNIN FED COM #802H, OWB, PWP0 V0
- *HENNIN FED COM #701H, OWB, PWP0 V0
- *HENNIN FED COM #703H, OWB, PWP0 V0
- *HENNIN FED COM #802H, OWB, PWP0 V0
- HENNIN FED #12H, OWB, AWP V0
- HENNIN FED #24H, OWB, AWP V0
- JAZZBASS34 FEDERAL 003H, OWB, AWP V0

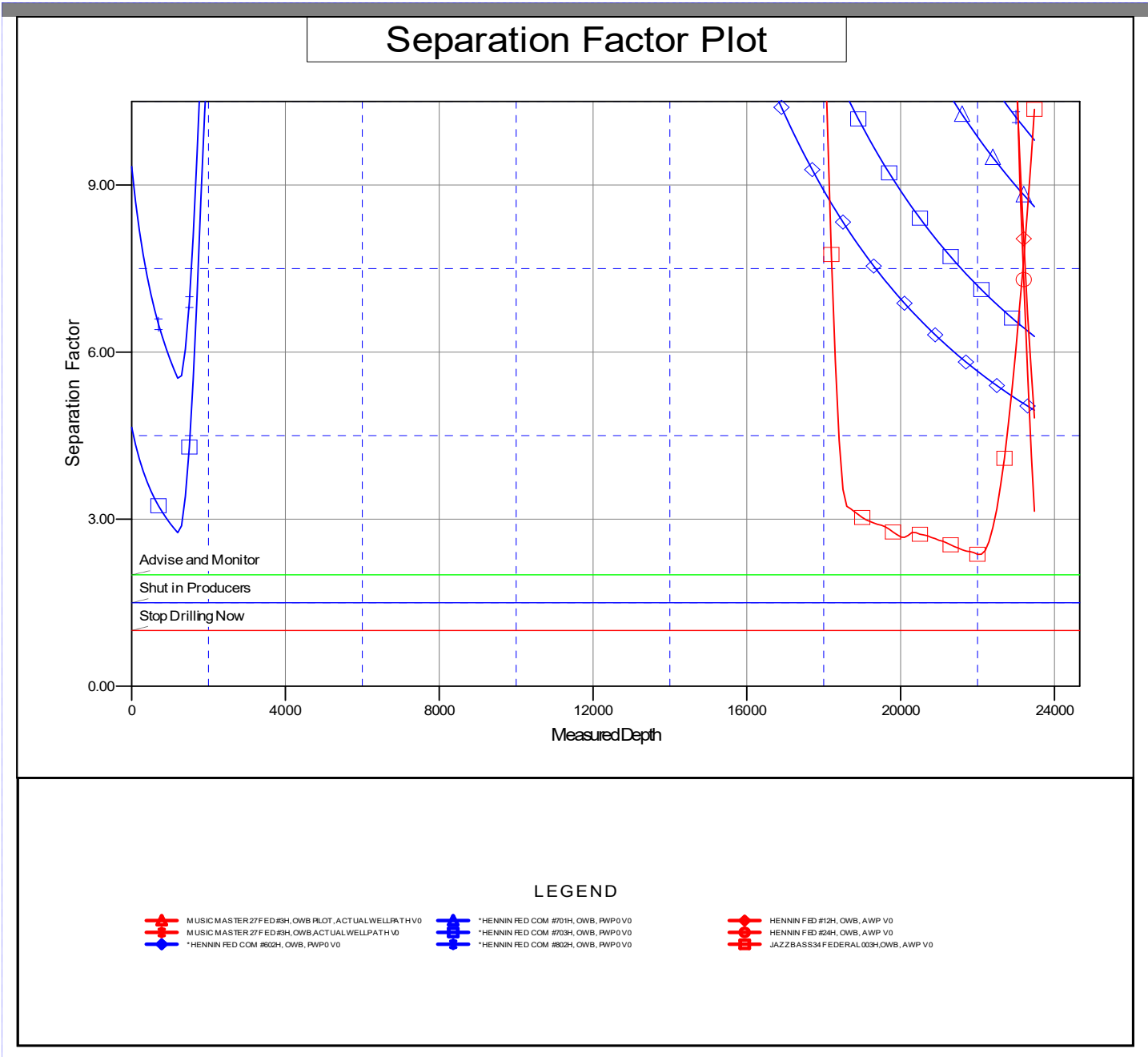
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *HENNIN FED COM #702H - Slot HENNIN FED COM #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	WELL @ 3220.0usft (Original Well Elev)
Reference Site:	HENNIN PROJECT	MD Reference:	WELL @ 3220.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*HENNIN FED COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Reference Depths are relative to WELL @ 3220.0usft (Original Well Ele
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: *HENNIN FED COM #702H - Slot HENNIN FED COM
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.52°



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

DELAWARE BASIN EAST

BULLDOG PROSPECT (NM-E)

HENNIN PROJECT

***HENNIN FED COM #702H - Slot HENNIN FED COM #702H**

OWB

Plan: PWP0

Standard Planning Report

29 June, 2023

ConocoPhillips
Planning Report

Database:	Central Planning Prod	Local Co-ordinate Reference:	Well *HENNIN FED COM #702H - Slot HENNIN FED COM #702H
Company:	DELAWARE BASIN EAST	TVD Reference:	WELL @ 3220.0usft (Original Well Elev)
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	WELL @ 3220.0usft (Original Well Elev)
Site:	HENNIN PROJECT	North Reference:	Grid
Well:	*HENNIN FED COM #702H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Project	BULLDOG PROSPECT (NM-E)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site		HENNIN PROJECT			
Site Position:		Northing:	397,009.03 usft	Latitude:	32° 5' 15.761 N
From:	Map	Easting:	803,170.42 usft	Longitude:	103° 21' 15.967 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "		

Well	*HENNIN FED COM #702H - Slot HENNIN FED COM #702H					
Well Position	+N/-S	0.0 usft	Northing:	404,899.13 usft	Latitude:	32° 6' 33.756 N
	+E/-W	0.0 usft	Easting:	804,045.72 usft	Longitude:	103° 21' 4.959 W
Position Uncertainty		3.0 usft	Wellhead Elevation:	usft	Ground Level:	3,220.0 usft
Grid Convergence:		0.52 °				

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2022	4/14/2023	6.18	59.66	47,393.14569179

Design	PWP0			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	182.74

Plan Survey Tool Program	Date	6/29/2023		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	23,481.2 PWP0 (OWB)	r.5 MWD+IFR1+MS	
			OWSG MWD + IFR1 + Multi-Sl	

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Planning Report

Database:	Central Planning Prod	Local Co-ordinate Reference:	Well *HENNIN FED COM #702H - Slot HENNIN FED COM #702H
Company:	DELAWARE BASIN EAST	TVD Reference:	WELL @ 3220.0usft (Original Well Elev)
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	WELL @ 3220.0usft (Original Well Elev)
Site:	HENNIN PROJECT	North Reference:	Grid
Well:	*HENNIN FED COM #702H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

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
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,733.3	8.00	287.70	1,731.6	11.3	-35.4	1.50	1.50	0.00	287.70	
5,771.0	8.00	287.70	5,730.0	182.2	-570.7	0.00	0.00	0.00	0.00	
6,571.0	0.00	0.00	6,527.4	199.1	-623.9	1.00	-1.00	0.00	180.00	
12,166.1	0.00	0.00	12,122.5	199.1	-623.9	0.00	0.00	0.00	0.00	
12,916.1	90.00	179.46	12,600.0	-278.3	-619.4	12.00	12.00	23.93	179.46	
23,481.2	90.00	179.46	12,600.0	-10,843.0	-519.6	0.00	0.00	0.00	0.00	PBHL (HENNIN FED)

ConocoPhillips

Planning Report

Database:	Central Planning Prod	Local Co-ordinate Reference:	Well *HENNIN FED COM #702H - Slot HENNIN FED COM #702H
Company:	DELAWARE BASIN EAST	TVD Reference:	WELL @ 3220.0usft (Original Well Elev)
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	WELL @ 3220.0usft (Original Well Elev)
Site:	HENNIN PROJECT	North Reference:	Grid
Well:	*HENNIN FED COM #702H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

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)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00	
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00	
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00	
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,300.0	1.50	287.70	1,300.0	0.4	-1.2	-0.3	1.50	1.50	0.00	
1,400.0	3.00	287.70	1,399.9	1.6	-5.0	-1.4	1.50	1.50	0.00	
1,500.0	4.50	287.70	1,499.7	3.6	-11.2	-3.0	1.50	1.50	0.00	
1,600.0	6.00	287.70	1,599.3	6.4	-19.9	-5.4	1.50	1.50	0.00	
1,700.0	7.50	287.70	1,698.6	9.9	-31.1	-8.4	1.50	1.50	0.00	
1,733.3	8.00	287.70	1,731.6	11.3	-35.4	-9.6	1.50	1.50	0.00	
1,800.0	8.00	287.70	1,797.6	14.1	-44.3	-12.0	0.00	0.00	0.00	
1,900.0	8.00	287.70	1,896.6	18.4	-57.5	-15.6	0.00	0.00	0.00	
2,000.0	8.00	287.70	1,995.7	22.6	-70.8	-19.2	0.00	0.00	0.00	
2,100.0	8.00	287.70	2,094.7	26.8	-84.0	-22.8	0.00	0.00	0.00	
2,200.0	8.00	287.70	2,193.7	31.0	-97.3	-26.4	0.00	0.00	0.00	
2,300.0	8.00	287.70	2,292.8	35.3	-110.5	-29.9	0.00	0.00	0.00	
2,400.0	8.00	287.70	2,391.8	39.5	-123.8	-33.5	0.00	0.00	0.00	
2,500.0	8.00	287.70	2,490.8	43.7	-137.1	-37.1	0.00	0.00	0.00	
2,600.0	8.00	287.70	2,589.8	48.0	-150.3	-40.7	0.00	0.00	0.00	
2,700.0	8.00	287.70	2,688.9	52.2	-163.6	-44.3	0.00	0.00	0.00	
2,800.0	8.00	287.70	2,787.9	56.4	-176.8	-47.9	0.00	0.00	0.00	
2,900.0	8.00	287.70	2,886.9	60.7	-190.1	-51.5	0.00	0.00	0.00	
3,000.0	8.00	287.70	2,985.9	64.9	-203.4	-55.1	0.00	0.00	0.00	
3,100.0	8.00	287.70	3,085.0	69.1	-216.6	-58.7	0.00	0.00	0.00	
3,200.0	8.00	287.70	3,184.0	73.4	-229.9	-62.3	0.00	0.00	0.00	
3,300.0	8.00	287.70	3,283.0	77.6	-243.1	-65.9	0.00	0.00	0.00	
3,400.0	8.00	287.70	3,382.0	81.8	-256.4	-69.5	0.00	0.00	0.00	
3,500.0	8.00	287.70	3,481.1	86.1	-269.6	-73.1	0.00	0.00	0.00	
3,600.0	8.00	287.70	3,580.1	90.3	-282.9	-76.6	0.00	0.00	0.00	
3,700.0	8.00	287.70	3,679.1	94.5	-296.2	-80.2	0.00	0.00	0.00	
3,800.0	8.00	287.70	3,778.2	98.8	-309.4	-83.8	0.00	0.00	0.00	
3,900.0	8.00	287.70	3,877.2	103.0	-322.7	-87.4	0.00	0.00	0.00	
4,000.0	8.00	287.70	3,976.2	107.2	-335.9	-91.0	0.00	0.00	0.00	
4,100.0	8.00	287.70	4,075.2	111.4	-349.2	-94.6	0.00	0.00	0.00	
4,200.0	8.00	287.70	4,174.3	115.7	-362.5	-98.2	0.00	0.00	0.00	
4,300.0	8.00	287.70	4,273.3	119.9	-375.7	-101.8	0.00	0.00	0.00	
4,400.0	8.00	287.70	4,372.3	124.1	-389.0	-105.4	0.00	0.00	0.00	
4,500.0	8.00	287.70	4,471.3	128.4	-402.2	-109.0	0.00	0.00	0.00	
4,600.0	8.00	287.70	4,570.4	132.6	-415.5	-112.6	0.00	0.00	0.00	
4,700.0	8.00	287.70	4,669.4	136.8	-428.7	-116.2	0.00	0.00	0.00	
4,800.0	8.00	287.70	4,768.4	141.1	-442.0	-119.7	0.00	0.00	0.00	
4,900.0	8.00	287.70	4,867.5	145.3	-455.3	-123.3	0.00	0.00	0.00	
5,000.0	8.00	287.70	4,966.5	149.5	-468.5	-126.9	0.00	0.00	0.00	
5,100.0	8.00	287.70	5,065.5	153.8	-481.8	-130.5	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	Central Planning Prod	Local Co-ordinate Reference:	Well *HENNIN FED COM #702H - Slot HENNIN FED COM #702H
Company:	DELAWARE BASIN EAST	TVD Reference:	WELL @ 3220.0usft (Original Well Elev)
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	WELL @ 3220.0usft (Original Well Elev)
Site:	HENNIN PROJECT	North Reference:	Grid
Well:	*HENNIN FED COM #702H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

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)	
5,200.0	8.00	287.70	5,164.5	158.0	-495.0	-134.1	0.00	0.00	0.00	
5,300.0	8.00	287.70	5,263.6	162.2	-508.3	-137.7	0.00	0.00	0.00	
5,400.0	8.00	287.70	5,362.6	166.5	-521.6	-141.3	0.00	0.00	0.00	
5,500.0	8.00	287.70	5,461.6	170.7	-534.8	-144.9	0.00	0.00	0.00	
5,600.0	8.00	287.70	5,560.6	174.9	-548.1	-148.5	0.00	0.00	0.00	
5,700.0	8.00	287.70	5,659.7	179.2	-561.3	-152.1	0.00	0.00	0.00	
5,771.0	8.00	287.70	5,730.0	182.2	-570.7	-154.6	0.00	0.00	0.00	
5,800.0	7.71	287.70	5,758.7	183.4	-574.5	-155.7	1.00	-1.00	0.00	
5,900.0	6.71	287.70	5,857.9	187.2	-586.5	-158.9	1.00	-1.00	0.00	
6,000.0	5.71	287.70	5,957.3	190.5	-596.8	-161.7	1.00	-1.00	0.00	
6,100.0	4.71	287.70	6,056.9	193.2	-605.4	-164.0	1.00	-1.00	0.00	
6,200.0	3.71	287.70	6,156.6	195.5	-612.4	-165.9	1.00	-1.00	0.00	
6,300.0	2.71	287.70	6,256.5	197.2	-617.8	-167.4	1.00	-1.00	0.00	
6,400.0	1.71	287.70	6,356.4	198.3	-621.4	-168.4	1.00	-1.00	0.00	
6,500.0	0.71	287.70	6,456.4	199.0	-623.4	-168.9	1.00	-1.00	0.00	
6,571.0	0.00	0.00	6,527.4	199.1	-623.9	-169.0	1.00	-1.00	0.00	
6,600.0	0.00	0.00	6,556.4	199.1	-623.9	-169.0	0.00	0.00	0.00	
6,700.0	0.00	0.00	6,656.4	199.1	-623.9	-169.0	0.00	0.00	0.00	
6,800.0	0.00	0.00	6,756.4	199.1	-623.9	-169.0	0.00	0.00	0.00	
6,900.0	0.00	0.00	6,856.4	199.1	-623.9	-169.0	0.00	0.00	0.00	
7,000.0	0.00	0.00	6,956.4	199.1	-623.9	-169.0	0.00	0.00	0.00	
7,100.0	0.00	0.00	7,056.4	199.1	-623.9	-169.0	0.00	0.00	0.00	
7,200.0	0.00	0.00	7,156.4	199.1	-623.9	-169.0	0.00	0.00	0.00	
7,300.0	0.00	0.00	7,256.4	199.1	-623.9	-169.0	0.00	0.00	0.00	
7,400.0	0.00	0.00	7,356.4	199.1	-623.9	-169.0	0.00	0.00	0.00	
7,500.0	0.00	0.00	7,456.4	199.1	-623.9	-169.0	0.00	0.00	0.00	
7,600.0	0.00	0.00	7,556.4	199.1	-623.9	-169.0	0.00	0.00	0.00	
7,700.0	0.00	0.00	7,656.4	199.1	-623.9	-169.0	0.00	0.00	0.00	
7,800.0	0.00	0.00	7,756.4	199.1	-623.9	-169.0	0.00	0.00	0.00	
7,900.0	0.00	0.00	7,856.4	199.1	-623.9	-169.0	0.00	0.00	0.00	
8,000.0	0.00	0.00	7,956.4	199.1	-623.9	-169.0	0.00	0.00	0.00	
8,100.0	0.00	0.00	8,056.4	199.1	-623.9	-169.0	0.00	0.00	0.00	
8,200.0	0.00	0.00	8,156.4	199.1	-623.9	-169.0	0.00	0.00	0.00	
8,300.0	0.00	0.00	8,256.4	199.1	-623.9	-169.0	0.00	0.00	0.00	
8,400.0	0.00	0.00	8,356.4	199.1	-623.9	-169.0	0.00	0.00	0.00	
8,500.0	0.00	0.00	8,456.4	199.1	-623.9	-169.0	0.00	0.00	0.00	
8,600.0	0.00	0.00	8,556.4	199.1	-623.9	-169.0	0.00	0.00	0.00	
8,700.0	0.00	0.00	8,656.4	199.1	-623.9	-169.0	0.00	0.00	0.00	
8,800.0	0.00	0.00	8,756.4	199.1	-623.9	-169.0	0.00	0.00	0.00	
8,900.0	0.00	0.00	8,856.4	199.1	-623.9	-169.0	0.00	0.00	0.00	
9,000.0	0.00	0.00	8,956.4	199.1	-623.9	-169.0	0.00	0.00	0.00	
9,100.0	0.00	0.00	9,056.4	199.1	-623.9	-169.0	0.00	0.00	0.00	
9,200.0	0.00	0.00	9,156.4	199.1	-623.9	-169.0	0.00	0.00	0.00	
9,300.0	0.00	0.00	9,256.4	199.1	-623.9	-169.0	0.00	0.00	0.00	
9,400.0	0.00	0.00	9,356.4	199.1	-623.9	-169.0	0.00	0.00	0.00	
9,500.0	0.00	0.00	9,456.4	199.1	-623.9	-169.0	0.00	0.00	0.00	
9,600.0	0.00	0.00	9,556.4	199.1	-623.9	-169.0	0.00	0.00	0.00	
9,700.0	0.00	0.00	9,656.4	199.1	-623.9	-169.0	0.00	0.00	0.00	
9,800.0	0.00	0.00	9,756.4	199.1	-623.9	-169.0	0.00	0.00	0.00	
9,900.0	0.00	0.00	9,856.4	199.1	-623.9	-169.0	0.00	0.00	0.00	
10,000.0	0.00	0.00	9,956.4	199.1	-623.9	-169.0	0.00	0.00	0.00	
10,100.0	0.00	0.00	10,056.4	199.1	-623.9	-169.0	0.00	0.00	0.00	
10,200.0	0.00	0.00	10,156.4	199.1	-623.9	-169.0	0.00	0.00	0.00	

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Planning Report

Database:	Central Planning Prod	Local Co-ordinate Reference:	Well *HENNIN FED COM #702H - Slot HENNIN FED COM #702H
Company:	DELAWARE BASIN EAST	TVD Reference:	WELL @ 3220.0usft (Original Well Elev)
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	WELL @ 3220.0usft (Original Well Elev)
Site:	HENNIN PROJECT	North Reference:	Grid
Well:	*HENNIN FED COM #702H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
10,300.0	0.00	0.00	10,256.4	199.1	-623.9	-169.0	0.00	0.00	0.00	
10,400.0	0.00	0.00	10,356.4	199.1	-623.9	-169.0	0.00	0.00	0.00	
10,500.0	0.00	0.00	10,456.4	199.1	-623.9	-169.0	0.00	0.00	0.00	
10,600.0	0.00	0.00	10,556.4	199.1	-623.9	-169.0	0.00	0.00	0.00	
10,700.0	0.00	0.00	10,656.4	199.1	-623.9	-169.0	0.00	0.00	0.00	
10,800.0	0.00	0.00	10,756.4	199.1	-623.9	-169.0	0.00	0.00	0.00	
10,900.0	0.00	0.00	10,856.4	199.1	-623.9	-169.0	0.00	0.00	0.00	
11,000.0	0.00	0.00	10,956.4	199.1	-623.9	-169.0	0.00	0.00	0.00	
11,100.0	0.00	0.00	11,056.4	199.1	-623.9	-169.0	0.00	0.00	0.00	
11,200.0	0.00	0.00	11,156.4	199.1	-623.9	-169.0	0.00	0.00	0.00	
11,300.0	0.00	0.00	11,256.4	199.1	-623.9	-169.0	0.00	0.00	0.00	
11,400.0	0.00	0.00	11,356.4	199.1	-623.9	-169.0	0.00	0.00	0.00	
11,500.0	0.00	0.00	11,456.4	199.1	-623.9	-169.0	0.00	0.00	0.00	
11,600.0	0.00	0.00	11,556.4	199.1	-623.9	-169.0	0.00	0.00	0.00	
11,700.0	0.00	0.00	11,656.4	199.1	-623.9	-169.0	0.00	0.00	0.00	
11,800.0	0.00	0.00	11,756.4	199.1	-623.9	-169.0	0.00	0.00	0.00	
11,900.0	0.00	0.00	11,856.4	199.1	-623.9	-169.0	0.00	0.00	0.00	
12,000.0	0.00	0.00	11,956.4	199.1	-623.9	-169.0	0.00	0.00	0.00	
12,100.0	0.00	0.00	12,056.4	199.1	-623.9	-169.0	0.00	0.00	0.00	
12,166.1	0.00	0.00	12,122.5	199.1	-623.9	-169.0	0.00	0.00	0.00	
12,175.0	1.07	179.46	12,131.4	199.0	-623.9	-168.9	12.00	12.00	0.00	
12,200.0	4.07	179.46	12,156.3	197.9	-623.9	-167.8	12.00	12.00	0.00	
12,225.0	7.07	179.46	12,181.2	195.5	-623.8	-165.4	12.00	12.00	0.00	
12,250.0	10.07	179.46	12,205.9	191.8	-623.8	-161.7	12.00	12.00	0.00	
12,275.0	13.07	179.46	12,230.4	186.8	-623.8	-156.7	12.00	12.00	0.00	
12,300.0	16.07	179.46	12,254.6	180.5	-623.7	-150.4	12.00	12.00	0.00	
12,325.0	19.07	179.46	12,278.5	172.9	-623.6	-142.9	12.00	12.00	0.00	
12,350.0	22.07	179.46	12,301.9	164.1	-623.5	-134.1	12.00	12.00	0.00	
12,375.0	25.07	179.46	12,324.8	154.1	-623.4	-124.1	12.00	12.00	0.00	
12,400.0	28.07	179.46	12,347.1	143.0	-623.3	-113.0	12.00	12.00	0.00	
12,425.0	31.07	179.46	12,368.9	130.6	-623.2	-100.7	12.00	12.00	0.00	
12,450.0	34.07	179.46	12,389.9	117.2	-623.1	-87.2	12.00	12.00	0.00	
12,475.0	37.07	179.46	12,410.3	102.6	-623.0	-72.7	12.00	12.00	0.00	
12,500.0	40.07	179.46	12,429.8	87.1	-622.8	-57.1	12.00	12.00	0.00	
12,525.0	43.07	179.46	12,448.5	70.5	-622.7	-40.6	12.00	12.00	0.00	
12,550.0	46.07	179.46	12,466.3	52.9	-622.5	-23.1	12.00	12.00	0.00	
12,575.0	49.07	179.46	12,483.2	34.5	-622.3	-4.7	12.00	12.00	0.00	
12,600.0	52.07	179.46	12,499.1	15.2	-622.1	14.6	12.00	12.00	0.00	
12,625.0	55.07	179.46	12,513.9	-4.9	-621.9	34.7	12.00	12.00	0.00	
12,650.0	58.07	179.46	12,527.7	-25.8	-621.7	55.5	12.00	12.00	0.00	
12,675.0	61.07	179.46	12,540.4	-47.3	-621.5	77.0	12.00	12.00	0.00	
12,700.0	64.07	179.46	12,551.9	-69.5	-621.3	99.2	12.00	12.00	0.00	
12,725.0	67.07	179.46	12,562.2	-92.3	-621.1	121.9	12.00	12.00	0.00	
12,750.0	70.07	179.46	12,571.4	-115.5	-620.9	145.1	12.00	12.00	0.00	
12,775.0	73.07	179.46	12,579.3	-139.3	-620.7	168.8	12.00	12.00	0.00	
12,800.0	76.07	179.46	12,585.9	-163.4	-620.4	192.9	12.00	12.00	0.00	
12,825.0	79.07	179.46	12,591.3	-187.8	-620.2	217.2	12.00	12.00	0.00	
12,850.0	82.07	179.46	12,595.4	-212.4	-620.0	241.9	12.00	12.00	0.00	
12,875.0	85.07	179.46	12,598.2	-237.3	-619.7	266.7	12.00	12.00	0.00	
12,900.0	88.07	179.46	12,599.7	-262.2	-619.5	291.6	12.00	12.00	0.00	
12,916.1	90.00	179.46	12,600.0	-278.3	-619.4	307.7	12.00	12.00	0.00	
13,000.0	90.00	179.46	12,600.0	-362.2	-618.6	391.4	0.00	0.00	0.00	
13,100.0	90.00	179.46	12,600.0	-462.2	-617.6	491.2	0.00	0.00	0.00	

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Planning Report

Database:	Central Planning Prod	Local Co-ordinate Reference:	Well *HENNIN FED COM #702H - Slot HENNIN FED COM #702H
Company:	DELAWARE BASIN EAST	TVD Reference:	WELL @ 3220.0usft (Original Well Elev)
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	WELL @ 3220.0usft (Original Well Elev)
Site:	HENNIN PROJECT	North Reference:	Grid
Well:	*HENNIN FED COM #702H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

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)
13,200.0	90.00	179.46	12,600.0	-562.2	-616.7	591.1	0.00	0.00	0.00
13,300.0	90.00	179.46	12,600.0	-662.2	-615.7	690.9	0.00	0.00	0.00
13,400.0	90.00	179.46	12,600.0	-762.2	-614.8	790.7	0.00	0.00	0.00
13,500.0	90.00	179.46	12,600.0	-862.2	-613.8	890.6	0.00	0.00	0.00
13,600.0	90.00	179.46	12,600.0	-962.2	-612.9	990.4	0.00	0.00	0.00
13,700.0	90.00	179.46	12,600.0	-1,062.2	-612.0	1,090.3	0.00	0.00	0.00
13,800.0	90.00	179.46	12,600.0	-1,162.2	-611.0	1,190.1	0.00	0.00	0.00
13,900.0	90.00	179.46	12,600.0	-1,262.2	-610.1	1,289.9	0.00	0.00	0.00
14,000.0	90.00	179.46	12,600.0	-1,362.2	-609.1	1,389.8	0.00	0.00	0.00
14,100.0	90.00	179.46	12,600.0	-1,462.2	-608.2	1,489.6	0.00	0.00	0.00
14,200.0	90.00	179.46	12,600.0	-1,562.2	-607.2	1,589.4	0.00	0.00	0.00
14,300.0	90.00	179.46	12,600.0	-1,662.1	-606.3	1,689.3	0.00	0.00	0.00
14,400.0	90.00	179.46	12,600.0	-1,762.1	-605.4	1,789.1	0.00	0.00	0.00
14,500.0	90.00	179.46	12,600.0	-1,862.1	-604.4	1,888.9	0.00	0.00	0.00
14,600.0	90.00	179.46	12,600.0	-1,962.1	-603.5	1,988.8	0.00	0.00	0.00
14,700.0	90.00	179.46	12,600.0	-2,062.1	-602.5	2,088.6	0.00	0.00	0.00
14,800.0	90.00	179.46	12,600.0	-2,162.1	-601.6	2,188.4	0.00	0.00	0.00
14,900.0	90.00	179.46	12,600.0	-2,262.1	-600.6	2,288.3	0.00	0.00	0.00
15,000.0	90.00	179.46	12,600.0	-2,362.1	-599.7	2,388.1	0.00	0.00	0.00
15,100.0	90.00	179.46	12,600.0	-2,462.1	-598.7	2,488.0	0.00	0.00	0.00
15,200.0	90.00	179.46	12,600.0	-2,562.1	-597.8	2,587.8	0.00	0.00	0.00
15,300.0	90.00	179.46	12,600.0	-2,662.1	-596.9	2,687.6	0.00	0.00	0.00
15,400.0	90.00	179.46	12,600.0	-2,762.1	-595.9	2,787.5	0.00	0.00	0.00
15,500.0	90.00	179.46	12,600.0	-2,862.1	-595.0	2,887.3	0.00	0.00	0.00
15,600.0	90.00	179.46	12,600.0	-2,962.1	-594.0	2,987.1	0.00	0.00	0.00
15,700.0	90.00	179.46	12,600.0	-3,062.1	-593.1	3,087.0	0.00	0.00	0.00
15,800.0	90.00	179.46	12,600.0	-3,162.1	-592.1	3,186.8	0.00	0.00	0.00
15,900.0	90.00	179.46	12,600.0	-3,262.1	-591.2	3,286.6	0.00	0.00	0.00
16,000.0	90.00	179.46	12,600.0	-3,362.1	-590.3	3,386.5	0.00	0.00	0.00
16,100.0	90.00	179.46	12,600.0	-3,462.1	-589.3	3,486.3	0.00	0.00	0.00
16,200.0	90.00	179.46	12,600.0	-3,562.1	-588.4	3,586.1	0.00	0.00	0.00
16,300.0	90.00	179.46	12,600.0	-3,662.1	-587.4	3,686.0	0.00	0.00	0.00
16,400.0	90.00	179.46	12,600.0	-3,762.1	-586.5	3,785.8	0.00	0.00	0.00
16,500.0	90.00	179.46	12,600.0	-3,862.0	-585.5	3,885.7	0.00	0.00	0.00
16,600.0	90.00	179.46	12,600.0	-3,962.0	-584.6	3,985.5	0.00	0.00	0.00
16,700.0	90.00	179.46	12,600.0	-4,062.0	-583.6	4,085.3	0.00	0.00	0.00
16,800.0	90.00	179.46	12,600.0	-4,162.0	-582.7	4,185.2	0.00	0.00	0.00
16,900.0	90.00	179.46	12,600.0	-4,262.0	-581.8	4,285.0	0.00	0.00	0.00
17,000.0	90.00	179.46	12,600.0	-4,362.0	-580.8	4,384.8	0.00	0.00	0.00
17,100.0	90.00	179.46	12,600.0	-4,462.0	-579.9	4,484.7	0.00	0.00	0.00
17,200.0	90.00	179.46	12,600.0	-4,562.0	-578.9	4,584.5	0.00	0.00	0.00
17,300.0	90.00	179.46	12,600.0	-4,662.0	-578.0	4,684.3	0.00	0.00	0.00
17,400.0	90.00	179.46	12,600.0	-4,762.0	-577.0	4,784.2	0.00	0.00	0.00
17,500.0	90.00	179.46	12,600.0	-4,862.0	-576.1	4,884.0	0.00	0.00	0.00
17,600.0	90.00	179.46	12,600.0	-4,962.0	-575.1	4,983.8	0.00	0.00	0.00
17,700.0	90.00	179.46	12,600.0	-5,062.0	-574.2	5,083.7	0.00	0.00	0.00
17,800.0	90.00	179.46	12,600.0	-5,162.0	-573.3	5,183.5	0.00	0.00	0.00
17,900.0	90.00	179.46	12,600.0	-5,262.0	-572.3	5,283.4	0.00	0.00	0.00
18,000.0	90.00	179.46	12,600.0	-5,362.0	-571.4	5,383.2	0.00	0.00	0.00
18,100.0	90.00	179.46	12,600.0	-5,462.0	-570.4	5,483.0	0.00	0.00	0.00
18,200.0	90.00	179.46	12,600.0	-5,562.0	-569.5	5,582.9	0.00	0.00	0.00
18,300.0	90.00	179.46	12,600.0	-5,662.0	-568.5	5,682.7	0.00	0.00	0.00
18,400.0	90.00	179.46	12,600.0	-5,762.0	-567.6	5,782.5	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	Central Planning Prod	Local Co-ordinate Reference:	Well *HENNIN FED COM #702H - Slot HENNIN FED COM #702H
Company:	DELAWARE BASIN EAST	TVD Reference:	WELL @ 3220.0usft (Original Well Elev)
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	WELL @ 3220.0usft (Original Well Elev)
Site:	HENNIN PROJECT	North Reference:	Grid
Well:	*HENNIN FED COM #702H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

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)	
18,500.0	90.00	179.46	12,600.0	-5,862.0	-566.7	5,882.4	0.00	0.00	0.00	
18,600.0	90.00	179.46	12,600.0	-5,962.0	-565.7	5,982.2	0.00	0.00	0.00	
18,700.0	90.00	179.46	12,600.0	-6,062.0	-564.8	6,082.0	0.00	0.00	0.00	
18,800.0	90.00	179.46	12,600.0	-6,161.9	-563.8	6,181.9	0.00	0.00	0.00	
18,900.0	90.00	179.46	12,600.0	-6,261.9	-562.9	6,281.7	0.00	0.00	0.00	
19,000.0	90.00	179.46	12,600.0	-6,361.9	-561.9	6,381.5	0.00	0.00	0.00	
19,100.0	90.00	179.46	12,600.0	-6,461.9	-561.0	6,481.4	0.00	0.00	0.00	
19,200.0	90.00	179.46	12,600.0	-6,561.9	-560.0	6,581.2	0.00	0.00	0.00	
19,300.0	90.00	179.46	12,600.0	-6,661.9	-559.1	6,681.1	0.00	0.00	0.00	
19,400.0	90.00	179.46	12,600.0	-6,761.9	-558.2	6,780.9	0.00	0.00	0.00	
19,500.0	90.00	179.46	12,600.0	-6,861.9	-557.2	6,880.7	0.00	0.00	0.00	
19,600.0	90.00	179.46	12,600.0	-6,961.9	-556.3	6,980.6	0.00	0.00	0.00	
19,700.0	90.00	179.46	12,600.0	-7,061.9	-555.3	7,080.4	0.00	0.00	0.00	
19,800.0	90.00	179.46	12,600.0	-7,161.9	-554.4	7,180.2	0.00	0.00	0.00	
19,900.0	90.00	179.46	12,600.0	-7,261.9	-553.4	7,280.1	0.00	0.00	0.00	
20,000.0	90.00	179.46	12,600.0	-7,361.9	-552.5	7,379.9	0.00	0.00	0.00	
20,100.0	90.00	179.46	12,600.0	-7,461.9	-551.5	7,479.7	0.00	0.00	0.00	
20,200.0	90.00	179.46	12,600.0	-7,561.9	-550.6	7,579.6	0.00	0.00	0.00	
20,300.0	90.00	179.46	12,600.0	-7,661.9	-549.7	7,679.4	0.00	0.00	0.00	
20,400.0	90.00	179.46	12,600.0	-7,761.9	-548.7	7,779.2	0.00	0.00	0.00	
20,500.0	90.00	179.46	12,600.0	-7,861.9	-547.8	7,879.1	0.00	0.00	0.00	
20,600.0	90.00	179.46	12,600.0	-7,961.9	-546.8	7,978.9	0.00	0.00	0.00	
20,700.0	90.00	179.46	12,600.0	-8,061.9	-545.9	8,078.8	0.00	0.00	0.00	
20,800.0	90.00	179.46	12,600.0	-8,161.9	-544.9	8,178.6	0.00	0.00	0.00	
20,900.0	90.00	179.46	12,600.0	-8,261.9	-544.0	8,278.4	0.00	0.00	0.00	
21,000.0	90.00	179.46	12,600.0	-8,361.8	-543.1	8,378.3	0.00	0.00	0.00	
21,100.0	90.00	179.46	12,600.0	-8,461.8	-542.1	8,478.1	0.00	0.00	0.00	
21,200.0	90.00	179.46	12,600.0	-8,561.8	-541.2	8,577.9	0.00	0.00	0.00	
21,300.0	90.00	179.46	12,600.0	-8,661.8	-540.2	8,677.8	0.00	0.00	0.00	
21,400.0	90.00	179.46	12,600.0	-8,761.8	-539.3	8,777.6	0.00	0.00	0.00	
21,500.0	90.00	179.46	12,600.0	-8,861.8	-538.3	8,877.4	0.00	0.00	0.00	
21,600.0	90.00	179.46	12,600.0	-8,961.8	-537.4	8,977.3	0.00	0.00	0.00	
21,700.0	90.00	179.46	12,600.0	-9,061.8	-536.4	9,077.1	0.00	0.00	0.00	
21,800.0	90.00	179.46	12,600.0	-9,161.8	-535.5	9,176.9	0.00	0.00	0.00	
21,900.0	90.00	179.46	12,600.0	-9,261.8	-534.6	9,276.8	0.00	0.00	0.00	
22,000.0	90.00	179.46	12,600.0	-9,361.8	-533.6	9,376.6	0.00	0.00	0.00	
22,100.0	90.00	179.46	12,600.0	-9,461.8	-532.7	9,476.5	0.00	0.00	0.00	
22,200.0	90.00	179.46	12,600.0	-9,561.8	-531.7	9,576.3	0.00	0.00	0.00	
22,300.0	90.00	179.46	12,600.0	-9,661.8	-530.8	9,676.1	0.00	0.00	0.00	
22,400.0	90.00	179.46	12,600.0	-9,761.8	-529.8	9,776.0	0.00	0.00	0.00	
22,500.0	90.00	179.46	12,600.0	-9,861.8	-528.9	9,875.8	0.00	0.00	0.00	
22,600.0	90.00	179.46	12,600.0	-9,961.8	-528.0	9,975.6	0.00	0.00	0.00	
22,700.0	90.00	179.46	12,600.0	-10,061.8	-527.0	10,075.5	0.00	0.00	0.00	
22,800.0	90.00	179.46	12,600.0	-10,161.8	-526.1	10,175.3	0.00	0.00	0.00	
22,900.0	90.00	179.46	12,600.0	-10,261.8	-525.1	10,275.1	0.00	0.00	0.00	
23,000.0	90.00	179.46	12,600.0	-10,361.8	-524.2	10,375.0	0.00	0.00	0.00	
23,100.0	90.00	179.46	12,600.0	-10,461.8	-523.2	10,474.8	0.00	0.00	0.00	
23,200.0	90.00	179.46	12,600.0	-10,561.8	-522.3	10,574.6	0.00	0.00	0.00	
23,300.0	90.00	179.46	12,600.0	-10,661.7	-521.3	10,674.5	0.00	0.00	0.00	
23,400.0	90.00	179.46	12,600.0	-10,761.7	-520.4	10,774.3	0.00	0.00	0.00	
23,481.2	90.00	179.46	12,600.0	-10,843.0	-519.6	10,855.4	0.00	0.00	0.00	

ConocoPhillips
Planning Report

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Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	WELL @ 3220.0usft (Original Well Elev)
Site:	HENNIN PROJECT	North Reference:	Grid
Well:	*HENNIN FED COM #702H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
PBHL (HENNIN FED CC - plan hits target center - Rectangle (sides W100.0 H10,407.2 D20.0)	0.00	359.46	12,600.0	-10,843.0	-519.6	394,056.15	803,526.09	32° 4' 46.510 N	103° 21' 12.145 W
LTP (HENNIN FED COM - plan misses target center by 31.2usft at 23400.0usft MD (12600.0 TVD, -10761.7 N, -520.4 E) - Circle (radius 50.0)	90.00	179.45	12,600.0	-10,793.0	-520.1	394,106.15	803,525.65	32° 4' 47.005 N	103° 21' 12.145 W
FTP (HENNIN FED COM - plan misses target center by 0.6usft at 13074.0usft MD (12600.0 TVD, -436.2 N, -617.9 E) - Circle (radius 50.0)	0.00	0.00	12,600.0	-436.2	-617.2	404,462.92	803,428.48	32° 6' 29.495 N	103° 21' 12.181 W

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
23,481.3	12,600.0	5-1/2" Production Casing	5-1/2	6-3/4	

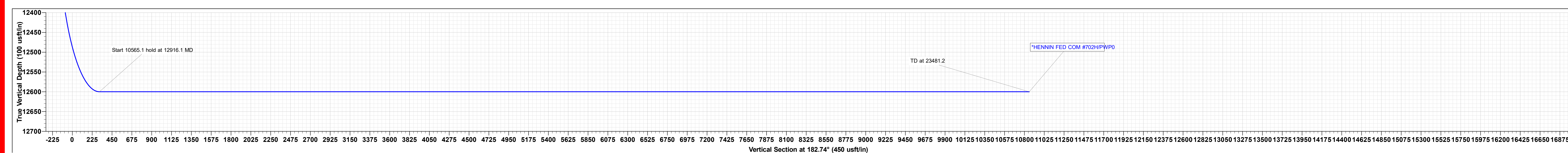
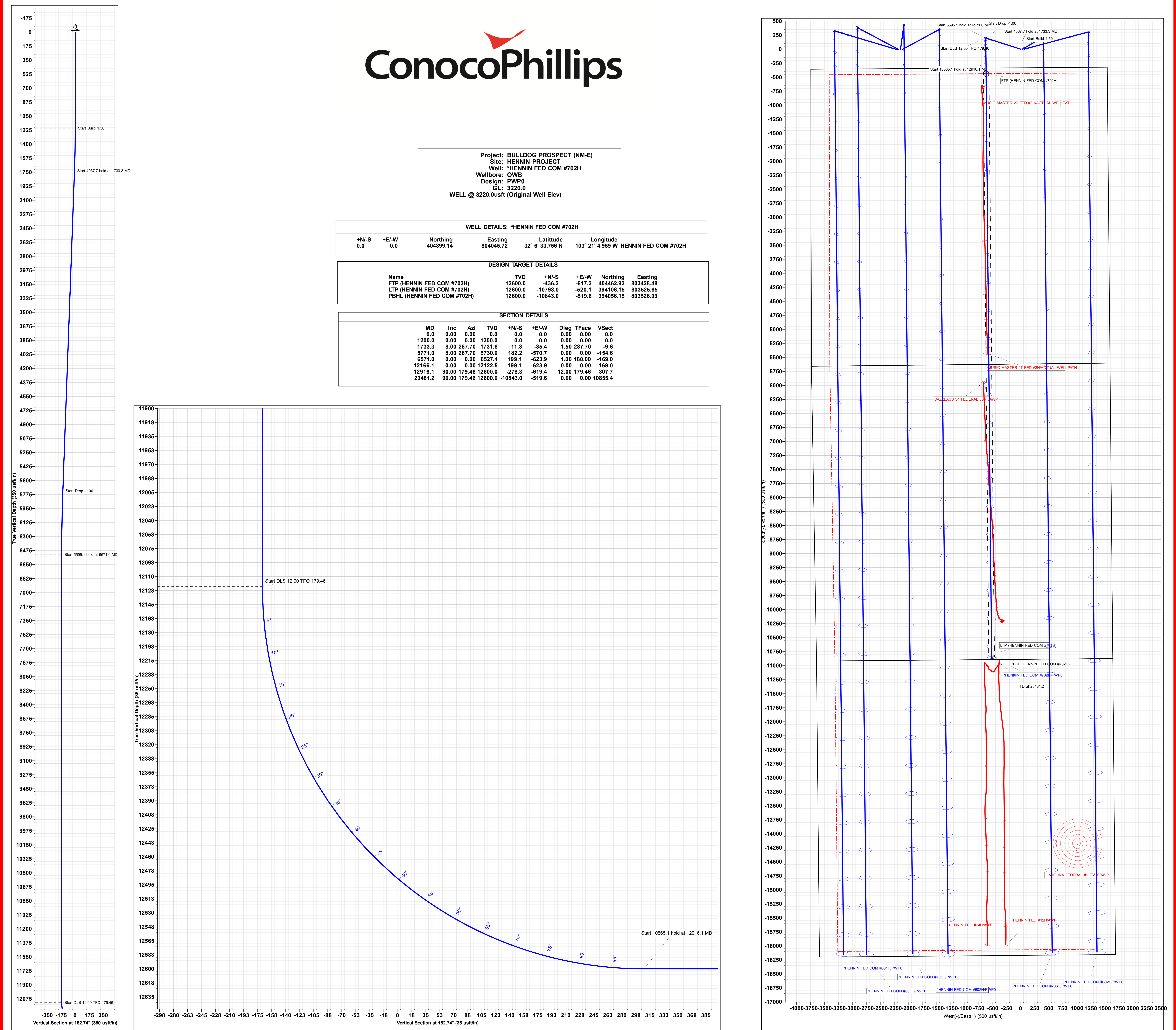


Project: BULLDOG PROSPECT (NM-E)
Site: HENNIN PROJECT
Well: *HENNIN FED COM #702H
Wellbore: OWB
Design: PWP0
GL: 3220.0
WELL @ 3220.0usft (Original Well Elev)

WELL DETAILS: 'HENNIN FED COM #702H					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	404899.14	804045.72	32° 6' 33.75 N	103° 21' 4.959 W HENNIN FED COM #702H

DESIGN TARGET DETAILS					
Name	TVD	+N/-S	+E/-W	Northings	Easting
FTP (HENNIN FED COM #702H)	12600.0	-436.2	-617.2	404462.92	803428.48
LTL (HENNIN FED COM #702H)	12600.0	-10793.0	-520.1	394106.15	803525.65
PBHL (HENNIN FED COM #702H)	12600.0	-10843.0	-519.6	394056.15	803526.09

SECTION DETAILS								
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0
1200.0	0.00	0.00	1200.0	0.0	0.0	0.00	0.00	0.0
1733.3	0.00	287.70	1731.6	11.3	-35.4	1.50	287.70	-9.6
5771.0	8.00	287.70	5730.0	182.2	-570.7	0.00	0.00	-154.5
6571.0	0.00	0.00	6527.4	199.1	-623.9	1.00	180.00	-169.0
12166.1	0.00	0.00	12122.5	199.1	-623.9	0.00	0.00	-169.0
12916.1	90.00	179.46	12600.0	-278.3	-619.4	12.00	179.46	307.7
23481.2	90.00	179.46	12600.0	-10843.0	-519.6	0.00	0.00	10855.4



COG OPERATING LLC
HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

1. HYDROGEN SULFIDE TRAINING

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on this well:

- a. The hazards and characteristics of hydrogen sulfide (H₂S).
- b. The proper use and maintenance of personal protective equipment and life support systems.
- c. The proper use of H₂S detectors, alarms, warning systems, briefing areas, evacuation procedures, and prevailing winds.
- d. The proper techniques for first aid and rescue procedures.

In addition, supervisory personnel will be trained in the following areas:

- a. The effects of H₂S on metal components. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
- b. Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
- c. The contents and requirements of the H₂S Drilling Operations Plan and the Public Protection Plan.

There will be an initial training session just prior to encountering a known or probable H₂S zone (within 3 days or 500 feet) and weekly H₂S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H₂S Drilling Operations Plan and the Public Protection Plan. This plan shall be available at the well site. All personnel will be required to carry documentation that they have received the proper training.

2. H₂S SAFETY EQUIPMENT AND SYSTEMS

Note: All H₂S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500 feet above, or three days prior to penetrating the first zone containing or reasonably expected to contain H₂S. If H₂S greater than 100 ppm is encountered in the gas stream we will shut in and install H₂S equipment.

- a. Well Control Equipment:
 - Flare line.
 - Choke manifold with remotely operated choke.
 - Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit.
 - Auxiliary equipment to include: annular preventer, mud-gas separator, rotating head.

- b. Protective equipment for essential personnel:
Mark II Surviveair 30-minute units located in the dog house and at briefing areas.
- c. H2S detection and monitoring equipment:
2 - portable H2S monitor positioned on location for best coverage and response. These units have warning lights and audible sirens when H2S levels of 20 ppm are reached.
- d. Visual warning systems:
Caution/Danger signs shall be posted on roads providing direct access to location. Signs will be painted a high visibility yellow with black lettering of sufficient size to be readable at a reasonable distance from the immediate location. Bilingual signs will be used, when appropriate. See example attached.
- e. Mud Program:
The mud program has been designed to minimize the volume of H2S circulated to the surface.
- f. Metallurgy:
All drill strings, casings, tubing, wellhead, blowout preventers, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H2S service.
- g. Communication:
Company vehicles equipped with cellular telephone.

COG OPERATING LLC has conducted a review to determine if an H2S contingency plan is required for the above referenced well. We were able to conclude that any potential hazardous volume would be minimal. H2S concentrations of wells in this area from surface to TD are low enough; therefore, we do not believe that an H2S contingency plan is necessary.

W A R N I N G

**YOU ARE ENTERING AN H₂S AREA
AUTHORIZED PERSONNEL ONLY**

- 1. BEARDS OR CONTACT LENSES NOT ALLOWED***
- 2. HARD HATS REQUIRED***
- 3. SMOKING IN DESIGNATED AREAS ONLY***
- 4. BE WIND CONSCIOUS AT ALL TIMES***
- 5. CK WITH COG OPERATING LLC FOREMAN AT MAIN OFFICE***

COG OPERATING LLC

1-575-748-6940

EMERGENCY CALL LIST

	<u>OFFICE</u>	<u>MOBILE</u>
COG OPERATING LLC OFFICE	575-748-6940	
Dallas Daley	432-818-2329	432-631-6977

EMERGENCY RESPONSE NUMBERS

	<u>OFFICE</u>
STATE POLICE	575-748-9718
EDDY COUNTY SHERIFF	575-746-2701
EMERGENCY MEDICAL SERVICES (AMBULANCE)	911 or 575-746-2701
EDDY COUNTY EMERGENCY MANAGEMENT (HARRY BURGESS)	575-887-9511
STATE EMERGENCY RESPONSE CENTER (SERC)	575-476-9620
CARLSBAD POLICE DEPARTMENT	575-885-2111
CARLSBAD FIRE DEPARTMENT	575-885-3125
NEW MEXICO OIL CONSERVATION DIVISION	575-748-1283
INDIAN FIRE & SAFETY	800-530-8693
HALLIBURTON SERVICES	800-844-8451

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	COG OPERATING LLC
WELL NAME & NO.:	HENNIN FED COM 702H
SURFACE HOLE FOOTAGE:	330'/S & 1540'/E
BOTTOM HOLE FOOTAGE:	50'/S & 2210'/E
LOCATION:	Section 22, T.25 S., R.35 E.
COUNTY:	Lea County, New Mexico

COA

H2S	☒ Yes	☐ No	
Potash	☒ None	☐ Secretary	☐ R-111-P
Cave/Karst Potential	☒ Low	☐ Medium	☐ High
Cave/Karst Potential	☐ Critical		
Variance	☐ None	☒ Flex Hose	☐ Other
Wellhead	☐ Conventional	☒ Multibowl	☐ Both
Wellhead Variance	☐ Diverter		
Other	☐ 4 String	☐ Capitan Reef	☐ WIPP
Other	☒ Fluid Filled	☐ Pilot Hole	☐ Open Annulus
Cementing	☐ Contingency Cement Squeeze	☐ EchoMeter	☐ Primary Cement Squeeze
Special Requirements	☐ Water Disposal	☒ COM	☐ Unit
Special Requirements	☐ Batch Sundry		
Special Requirements Variance	☐ Break Testing	☐ Offline Cementing	☒ Casing Clearance

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated AT SPUD. As a result, the Hydrogen Sulfide area must meet 43 CFR part 3170 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

Primary Casing Design:

1. The 10-3/4 inch surface casing shall be set at approximately **869 feet per BLM Geologist** (a minimum of 25 feet (Lea County) into the Rustler Anhydrite, above the

salt, and below usable fresh water) and cemented to the surface. The surface hole shall be **14 3/4 inch** in diameter.

- a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
- b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.

Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

2. The minimum required fill of cement behind the 7-5/8 inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above. **Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.**

Contingency:

Operator has proposed a contingency if losses are encountered, a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. Second stage above DV tool:
 - Cement to surface. If cement does not circulate, contact the appropriate BLM office. **Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.**

3. **The W441 connection should tie back 500'+ into the W513 intermediate casing for clearance overlap.** The minimum required fill of cement behind the 5-1/2 inch production casing is:

- Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the **10-3/4 inch** surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **10,000 (10M) psi**. **Variance is approved to use a 5000 (5M) Annular which shall be tested to 3500 (70% Working Pressure) psi.**
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in Onshore Order 1 and 2.

- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

Casing Clearance:

- **The W441 connection should tie back 500'+ into the W513 intermediate casing for clearance overlap.**

Operator shall clean up cycles until wellbore is clear of cuttings and any large debris, ensure cutting sizes are adequate "coffee ground or less" before cementing.

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

☒ Eddy County

EMAIL or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,

BLM_NM_CFO_DrillingNotifications@BLM.GOV

(575) 361-2822

☒ Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240,

(575) 689-5981

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - i. Notify the BLM when moving in and removing the Spudder Rig.

- ii. Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - iii. BOP/BOPE test to be conducted per **43 CFR 3172** as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
3. For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from spacer and drilling mud. The results should be documented in the driller's log and daily reports.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends of both lead and tail cement, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in

the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.

4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. 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. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-Q potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR 3172**.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.

4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - ii. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - iii. Manufacturer representative shall install the test plug for the initial BOP test.
 - iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
 - v. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - i. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - ii. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
 - iii. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e.

against the casing) pursuant to **43 CFR 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

- iv. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- v. The results of the test shall be reported to the appropriate BLM office.
- vi. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- vii. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- viii. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per **43 CFR 3172**.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

JS 10/29/2024

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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 400731

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 400731
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
stanwagner	Cement is required to circulate on both surface and intermediate1 strings of casing.	11/8/2024
stanwagner	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	11/8/2024
pkautz	File As Drilled C-102 and a directional Survey with C-104 completion packet.	11/26/2024
pkautz	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.	11/26/2024
pkautz	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.	11/26/2024