

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	3b. Phone No. (include area code)	9. API Well No.
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		10. Field and Pool, or Exploratory
14. Distance in miles and direction from nearest town or post office*		11. Sec., T. R. M. or Blk. and Survey or Area
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)		12. County or Parish
16. No of acres in lease		13. State
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)



Approval Date: 01/11/2024

Additional Operator Remarks

Location of Well

0. SHL: NENE / 505 FNL / 1035 FEL / TWSP: 25S / RANGE: 27E / SECTION: 28 / LAT: 32.106967 / LONG: -104.189811 (TVD: 0 feet, MD: 0 feet)
PPP: NWNE / 330 FNL / 2090 FEL / TWSP: 25S / RANGE: 27E / SECTION: 28 / LAT: 32.1074 / LONG: -104.193227 (TVD: 9702 feet, MD: 9953 feet)
PPP: SESE / 1319 FSL / 2090 FEL / TWSP: 25S / RANGE: 27E / SECTION: 28 / LAT: 32.097399 / LONG: -104.193339 (TVD: 9768 feet, MD: 13584 feet)
PPP: NWNE / 2639 FSL / 2090 FEL / TWSP: 25S / RANGE: 27E / SECTION: 33 / LAT: 32.086379 / LONG: -104.193463 (TVD: 9771 feet, MD: 17544 feet)
PPP: NWNE / 1 FNL / 2090 FEL / TWSP: 26S / RANGE: 27E / SECTION: 4 / LAT: 32.079011 / LONG: -104.193545 (TVD: 9773 feet, MD: 20184 feet)
BHL: SWSE / 200 FSL / 2090 FEL / TWSP: 26S / RANGE: 27E / SECTION: 4 / LAT: 32.0648 / LONG: -104.193705 (TVD: 9777 feet, MD: 25430 feet)

BLM Point of Contact

Name: GAVIN MICKWEE
Title: Land Law Examiner
Phone: (575) 234-5972
Email: gmickwee@blm.gov

CONFIDENTIAL

DISTRICT I
1625 N. FRENCH DR., HOBBS, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

DISTRICT II
811 S. FIRST ST., ARTESIA, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

DISTRICT III
1000 RIO BRAZOS RD., AZTEC, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-	Pool Code 98220	Pool Name Purple Sage; Wolfcamp (Gas)
Property Code	Property Name FLAMING SNAIL FEDERAL COM	Well Number 803H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3124.7'

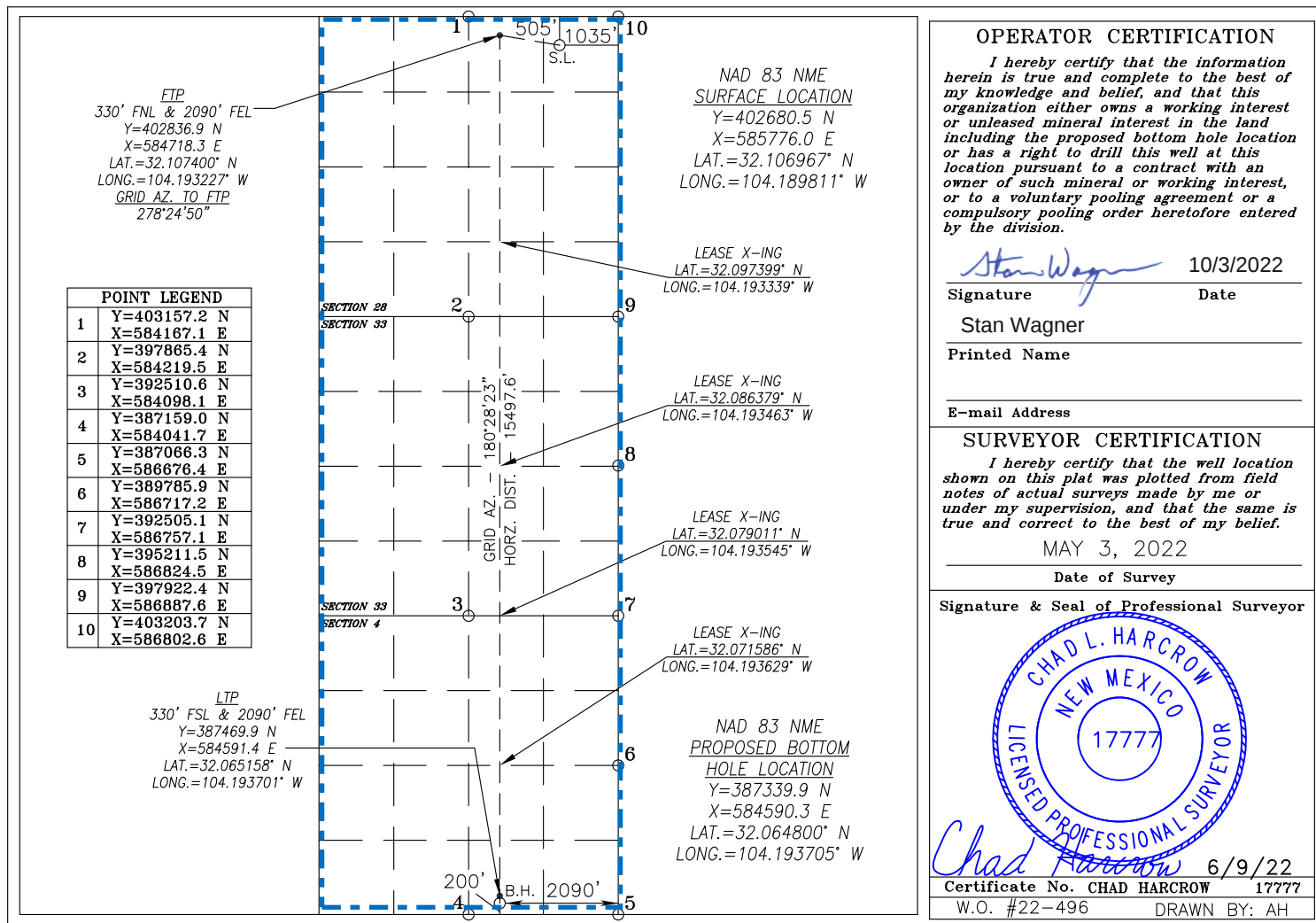
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	28	25-S	27-E		505	NORTH	1035	EAST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	4	26-S	27-E		200	SOUTH	2090	EAST	EDDY
Dedicated Acres 1920	Joint or Infill Infill	Consolidation Code Com	Order No.						

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



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: 10/03/2022

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
Flaming Snail Fed Com 801H	30-015	A-28-25S-27E	505 FNL & 975 FEL	± 660	± 9600	± 2800
Flaming Snail Fed Com 802H	30-015-	A-28-25S-27E	505 FNL & 1005 FEL	± 660	± 9600	± 2800
Flaming Snail Fed Com 803H	30-015-	A-28-25S-27E	505 FNL & 1035 FEL	± 660	± 9600	± 2800
Flaming Snail Fed Com 804H	30-015-	C-28-25S-27E	555 FNL & 1715 FWL	± 660	± 9600	± 2800
Flaming Snail Fed Com 805H	30-015-	C-28-25S-27E	555 FNL & 1685 FWL	± 660	± 9600	± 2800
Flaming Snail Fed Com 806H	30-015-	C-28-25S-27E	555 FNL & 1655 FWL	± 660	± 9600	± 2800

IV. Central Delivery Point Name: Flaming Snail Fed Com East CTB NWNE 28-25S-27E [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
Flaming Snail Fed Com	Pending	± 4/01/23	± 25 days from spud	TBD	TBD	TBD
801H, 802H, 803H, 804H, 805H, 806H						

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

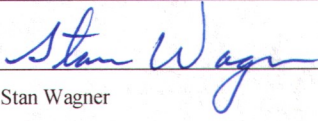
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(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:	10/03/2022
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

COG Operating, LLC - Flaming Snail Federal Com 803H

1. Geologic Formations

TVD of target	9,777' EOL	Pilot hole depth	NA
MD at TD:	25,430'	Deepest expected fresh water:	28'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	40	Water	
Top of Salt	527	Salt	
Base of Salt	1938	Salt	
Lamar	2168	Salt Water	
Bell Canyon	2217	Salt Water	
Cherry Canyon	3017	Oil/Gas	
Brushy Canyon	4117	Oil/Gas	
Bone Spring Lime	5704	Oil/Gas	
1st Bone Spring Sand	6637	Oil/Gas	
2nd Bone Spring Sand	7148	Oil/Gas	
3rd Bone Spring Sand	8465	Oil/Gas	
Wolfcamp	8795	Oil/Gas	
Wolfcamp C	9626	Target Oil/Gas	
0	0	Not Penetrated	

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	540	10.75"	45.5	J55	BTC	8.46	1.77	29.10	32.40
9.875"	0	5500	7.625"	29.7	HCL80	BTC	2.42	1.28	4.18	4.41
8.750"	5500	9100	7.625"	29.7	HCP110	W513	1.57	1.76	3.48	2.06
6.75"	0	8600	5.5"	23	P110	TXP BTC	2.60	3.07	3.69	3.69
6.75"	8600	25,430	5.5"	23	P110	W441	2.29	2.70	3.24	2.94
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" talon 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.

COG Operating, LLC - Flaming Snail Federal Com 803H

	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?	

COG Operating, LLC - Flaming Snail Federal Com 803H

3. Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	258	13.5	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl ₂
	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl ₂
Inter. Stage 1	600	10.3	3.3	22	24	Halliburton tunded light
	250	14.8	1.35	6.6	8	Tail: Class H
Prod	399	12.7	2	10.7	72	Lead: 50:50:10 H Blend
	1587	14.4	1.24	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	8,600'	35% OH in Lateral (KOP to EOL)

COG Operating, LLC - Flaming Snail Federal Com 803H

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"	3M	Annular	x	2500psi
			Blind Ram		3000psi
			Pipe Ram	x	
			Double Ram	x	
			Other*		
6-3/4"	13-5/8"	5M	5M Annular	x	2500psi
			Blind Ram		5000psi
			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.

COG Operating, LLC - Flaming Snail Federal Com 803H

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	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	

COG Operating, LLC - Flaming Snail Federal Com 803H

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	6360 psi at 9777' TVD
Abnormal Temperature	NO 155 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	H2S Plan.
x	BOP & Choke Schematics.
x	Directional Plan

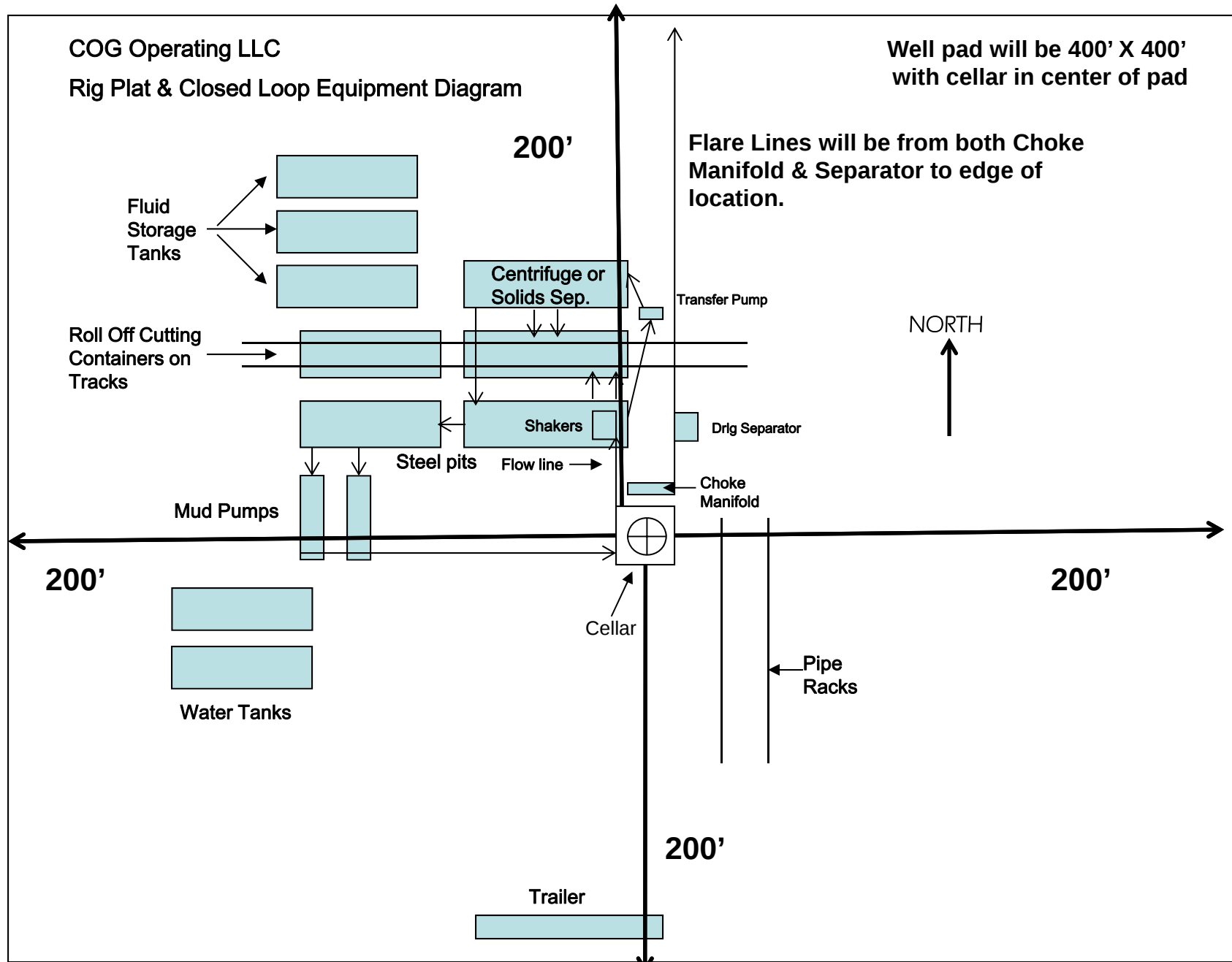


Exhibit 1

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

DELAWARE BASIN WEST

ATLAS PROSPECT (NM-E)

FLAMING SNAIL FED COM PROJECT

FLAMING SNAIL FEDERAL COM #803H

OWB

PWP1

Anticollision Report

24 September, 2022

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Reference	PWP1		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD + Stations Interval 95.0usft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum centre distance of 1,320.0usft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program	Date	9/23/2022		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	1,500.0	PWP1 (OWB)	r.5 SDI_KPR_WL_NS-CT	SDI Keeper Wireline Gyrocomp.-Initilzd Cont. rev.5
1,500.0	9,326.3	PWP1 (OWB)	r.5 MWD+IFR1	OWSG MWD + IFR1 rev.5
9,326.3	25,430.7	PWP1 (OWB)	r.5 MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction rev.5

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						
FLAMING SNAIL FED COM PROJECT						
CICADA UNIT #16H - OWB - AWP						Out of range
FLAMING SNAIL FEDERAL COM #501H - OWB - PWP0	1,500.0	1,504.2	305.7	297.5	37.096	CC, ES
FLAMING SNAIL FEDERAL COM #501H - OWB - PWP0	2,565.0	2,572.3	413.9	401.6	33.655	SF
FLAMING SNAIL FEDERAL COM #502H - OWB - PWP0	3,962.8	4,026.0	288.9	263.8	11.543	CC
FLAMING SNAIL FEDERAL COM #502H - OWB - PWP0	4,100.0	4,162.0	289.4	263.3	11.059	ES
FLAMING SNAIL FEDERAL COM #502H - OWB - PWP0	4,845.0	4,900.4	311.8	280.7	10.027	SF
FLAMING SNAIL FEDERAL COM #503H - OWB - PWP0	7,034.0	7,057.4	796.6	752.4	18.015	CC
FLAMING SNAIL FEDERAL COM #503H - OWB - PWP0	7,100.0	7,122.5	796.6	752.4	17.995	ES
FLAMING SNAIL FEDERAL COM #503H - OWB - PWP0	7,300.0	7,304.2	799.0	754.5	17.950	SF
FLAMING SNAIL FEDERAL COM #504H - OWB - PWP0						Out of range
FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0	1,500.0	1,504.5	301.3	293.0	36.469	CC
FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0	1,520.0	1,524.5	301.3	293.0	36.312	ES
FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0	3,400.0	3,426.3	441.3	423.4	24.591	SF
FLAMING SNAIL FEDERAL COM #521H - OWB - PWP0						Out of range
FLAMING SNAIL FEDERAL COM #701H - OWB - PWP1	1,435.9	1,440.5	191.8	182.8	21.114	CC
FLAMING SNAIL FEDERAL COM #701H - OWB - PWP1	1,500.0	1,504.6	191.8	182.6	20.800	ES
FLAMING SNAIL FEDERAL COM #701H - OWB - PWP1	1,710.0	1,712.1	199.8	189.9	20.160	SF
FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1	1,515.2	1,520.5	174.7	165.3	18.702	CC
FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1	1,520.0	1,525.4	174.7	165.3	18.675	ES
FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1	1,900.0	1,914.0	184.2	173.5	17.192	SF
FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1	2,049.9	2,077.1	150.5	138.7	12.679	CC, ES
FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1	25,430.7	24,277.7	1,124.7	880.5	4.607	SF
FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1	2,184.5	2,209.6	151.9	139.9	12.625	CC
FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1	4,655.0	4,679.4	159.3	133.3	6.113	ES
FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1	25,430.7	24,316.0	864.2	617.5	3.503	SF
FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1	1,508.2	1,512.9	149.9	140.5	15.842	CC
FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1	1,520.0	1,524.8	149.9	140.4	15.800	ES
FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1	25,430.7	24,345.4	836.1	588.1	3.372	SF
FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1	8,462.0	8,449.3	754.6	710.2	16.994	CC
FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1	8,500.0	8,485.8	754.6	710.2	16.981	ES
FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1	25,430.7	24,278.2	1,082.6	837.9	4.423	SF
FLAMING SNAIL FEDERAL COM #707H - OWB - PWP1	8,457.5	8,386.2	1,218.3	1,177.8	30.065	CC
FLAMING SNAIL FEDERAL COM #707H - OWB - PWP1	8,500.0	8,424.7	1,218.4	1,177.8	30.036	ES

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
FLAMING SNAIL FED COM PROJECT						
FLAMING SNAIL FEDERAL COM #707H - OWB - PWP1	8,550.0	8,450.0	1,218.9	1,178.3	29.996	SF
FLAMING SNAIL FEDERAL COM #708H - OWB - PWP1						Out of range
FLAMING SNAIL FEDERAL COM #709H - OWB - PWP1						Out of range
FLAMING SNAIL FEDERAL COM #710H - OWB - PWP1						Out of range
FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1	1,437.3	1,437.9	59.9	51.1	6.830	CC
FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1	1,500.0	1,500.0	59.9	51.0	6.748	ES
FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1	1,520.0	1,520.3	60.0	51.1	6.712	SF
FLAMING SNAIL FEDERAL COM #802H - OWB - PWP1	1,500.0	1,500.0	29.9	21.0	3.368	CC
FLAMING SNAIL FEDERAL COM #802H - OWB - PWP1	1,520.0	1,520.1	29.9	21.0	3.351	ES, SF
FLAMING SNAIL FEDERAL COM #804H - OWB - PWP1	9,301.4	9,284.0	873.3	827.7	19.156	CC
FLAMING SNAIL FEDERAL COM #804H - OWB - PWP1	25,430.7	25,359.2	882.7	640.4	3.643	ES, SF
FLAMING SNAIL FEDERAL COM #805H - OWB - PWP1						Out of range
FLAMING SNAIL FEDERAL COM #806H - OWB - PWP1						Out of range
LEONARDO BKL FEDERAL COM #1 - OWB - AWP	11,582.6	9,746.4	112.8	-204.0	0.356	Advise and Monitor, CC, ES,
WHITE CITY 21 25 27 FEDERAL COM #5H - OWB - AW						Out of range
WHITE CITY 21 25 27 FEDERAL COM #6H - OWB - AW	7,008.6	6,873.3	1,268.8	1,216.0	24.032	CC
WHITE CITY 21 25 27 FEDERAL COM #6H - OWB - AW	7,030.0	6,890.9	1,268.8	1,215.9	23.997	ES
WHITE CITY 21 25 27 FEDERAL COM #6H - OWB - AW	7,315.0	7,117.0	1,274.8	1,221.0	23.666	SF

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

TD Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
FLAMING SNAIL FED COM PROJECT						
CICADA UNIT #16H - OWB - AWP	25,430.7	9,909.0				Out of Range @TD
FLAMING SNAIL FEDERAL COM #501H - OWB - PWP0	25,430.7	23,281.0				Out of Range @TD
FLAMING SNAIL FEDERAL COM #502H - OWB - PWP0	25,430.7	23,208.6				Out of Range @TD
FLAMING SNAIL FEDERAL COM #503H - OWB - PWP0	25,430.7	23,177.4				Out of Range @TD
FLAMING SNAIL FEDERAL COM #504H - OWB - PWP0	25,430.7	23,099.1				Out of Range @TD
FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0	25,430.7	23,600.0				Out of Range @TD
FLAMING SNAIL FEDERAL COM #521H - OWB - PWP0	25,430.7	23,487.7				Out of Range @TD
FLAMING SNAIL FEDERAL COM #701H - OWB - PWP1	25,430.7	24,358.8				Out of Range @TD
FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1	25,430.7	24,286.8				Out of Range @TD
FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1	25,430.7	24,277.7	1,124.7	880.5	4.607	SF
FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1	25,430.7	24,316.0	864.2	617.5	3.503	SF
FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1	25,430.7	24,345.4	836.1	588.1	3.372	SF
FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1	25,430.7	24,278.2	1,082.6	837.9	4.423	SF
FLAMING SNAIL FEDERAL COM #707H - OWB - PWP1	25,430.7	24,197.9				Out of Range @TD
FLAMING SNAIL FEDERAL COM #708H - OWB - PWP1	25,430.7	24,170.7				Out of Range @TD
FLAMING SNAIL FEDERAL COM #709H - OWB - PWP1	25,430.7	24,202.6				Out of Range @TD
FLAMING SNAIL FEDERAL COM #710H - OWB - PWP1	25,430.7	24,229.3				Out of Range @TD
FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1	25,430.7	25,468.0				Out of Range @TD
FLAMING SNAIL FEDERAL COM #802H - OWB - PWP1	25,430.7	25,384.6	880.0	637.6	3.630	
FLAMING SNAIL FEDERAL COM #804H - OWB - PWP1	25,430.7	25,359.2	882.7	640.4	3.643	ES, SF
FLAMING SNAIL FEDERAL COM #805H - OWB - PWP1	25,430.7	25,284.5				Out of Range @TD
FLAMING SNAIL FEDERAL COM #806H - OWB - PWP1	25,430.7	25,330.7				Out of Range @TD
LEONARDO BKL FEDERAL COM #1 - OWB - AWP	25,430.7	9,756.6				Out of Range @TD
WHITE CITY 21 25 27 FEDERAL COM #5H - OWB - AW	25,430.7	7,030.0				Out of Range @TD
WHITE CITY 21 25 27 FEDERAL COM #6H - OWB - AW	25,430.7	7,086.0				Out of Range @TD

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #501H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7123-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Rule Assigned:							
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
0.0	0.0	4.2	4.2	3.0	3.0	167.78	-298.8	64.7	305.7				
95.0	95.0	99.2	99.2	3.0	3.0	167.78	-298.8	64.7	305.7	299.7	6.02	50.801	
100.0	100.0	104.2	104.2	3.0	3.0	167.78	-298.8	64.7	305.7	299.7	6.02	50.776	
190.0	190.0	194.2	194.2	3.1	3.0	167.78	-298.8	64.7	305.7	299.6	6.13	49.843	
200.0	200.0	204.2	204.2	3.1	3.0	167.78	-298.8	64.7	305.7	299.6	6.15	49.696	
285.0	285.0	289.2	289.2	3.3	3.0	167.78	-298.8	64.7	305.7	299.5	6.26	48.804	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #501H - OWB - PWP0											Offset Site Error:	0.0 usft		
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7123-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)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
300.0	300.0	304.2	304.2	3.3	3.0	167.78		-298.8	64.7	305.7	299.4	6.29	48.626	
380.0	380.0	384.2	384.2	3.4	3.0	167.78		-298.8	64.7	305.7	299.3	6.40	47.792	
400.0	400.0	404.2	404.2	3.4	3.0	167.78		-298.8	64.7	305.7	299.3	6.43	47.569	
475.0	475.0	479.2	479.2	3.5	3.0	167.78		-298.8	64.7	305.7	299.2	6.53	46.795	
500.0	500.0	504.2	504.2	3.5	3.1	167.78		-298.8	64.7	305.7	299.2	6.57	46.526	
570.0	570.0	574.2	574.2	3.6	3.1	167.78		-298.8	64.7	305.7	299.1	6.67	45.811	
600.0	600.0	604.2	604.2	3.6	3.1	167.78		-298.8	64.7	305.7	299.0	6.72	45.496	
665.0	665.0	669.2	669.2	3.7	3.1	167.78		-298.8	64.7	305.7	298.9	6.82	44.842	
700.0	700.0	704.2	704.2	3.8	3.1	167.78		-298.8	64.7	305.7	298.9	6.87	44.483	
760.0	760.0	764.2	764.2	3.8	3.1	167.78		-298.8	64.7	305.7	298.8	6.97	43.888	
800.0	800.0	804.2	804.2	3.9	3.2	167.78		-298.8	64.7	305.7	298.7	7.03	43.487	
855.0	855.0	859.2	859.2	4.0	3.2	167.78		-298.8	64.7	305.7	298.6	7.12	42.952	
900.0	900.0	904.2	904.2	4.0	3.2	167.78		-298.8	64.7	305.7	298.5	7.19	42.510	
950.0	950.0	954.2	954.2	4.1	3.2	167.78		-298.8	64.7	305.7	298.5	7.27	42.032	
1,000.0	1,000.0	1,004.2	1,004.2	4.1	3.2	167.78		-298.8	64.7	305.7	298.4	7.36	41.553	
1,045.0	1,045.0	1,049.2	1,049.2	4.2	3.3	167.78		-298.8	64.7	305.7	298.3	7.43	41.132	
1,100.0	1,100.0	1,104.2	1,104.2	4.2	3.3	167.78		-298.8	64.7	305.7	298.2	7.53	40.617	
1,140.0	1,140.0	1,144.2	1,144.2	4.3	3.3	167.78		-298.8	64.7	305.7	298.1	7.60	40.250	
1,200.0	1,200.0	1,204.2	1,204.2	4.4	3.4	167.78		-298.8	64.7	305.7	298.0	7.70	39.702	
1,235.0	1,235.0	1,239.2	1,239.2	4.4	3.4	167.78		-298.8	64.7	305.7	298.0	7.76	39.389	
1,300.0	1,300.0	1,304.2	1,304.2	4.5	3.4	167.78		-298.8	64.7	305.7	297.8	7.88	38.810	
1,330.0	1,330.0	1,334.2	1,334.2	4.5	3.4	167.78		-298.8	64.7	305.7	297.8	7.93	38.548	
1,400.0	1,400.0	1,404.2	1,404.2	4.6	3.5	167.78		-298.8	64.7	305.7	297.7	8.06	37.941	
1,425.0	1,425.0	1,429.2	1,429.2	4.6	3.5	167.78		-298.8	64.7	305.7	297.6	8.10	37.729	
1,500.0	1,500.0	1,504.2	1,504.2	4.7	3.5	167.78		-298.8	64.7	305.7	297.5	8.24	37.096 CC, ES	
1,520.0	1,520.0	1,524.2	1,524.2	4.7	3.6	-124.70		-298.8	64.7	305.8	297.5	8.28	36.934	
1,600.0	1,600.0	1,604.2	1,604.2	4.8	3.6	-124.94		-298.8	64.7	306.7	298.3	8.44	36.338	
1,615.0	1,615.0	1,619.2	1,619.2	4.9	3.6	-125.02		-298.8	64.7	307.0	298.6	8.48	36.211	
1,700.0	1,699.8	1,704.0	1,704.0	5.0	3.7	-125.68		-298.8	64.7	309.7	301.0	8.70	35.594	
1,710.0	1,709.8	1,714.0	1,714.0	5.1	3.7	-125.78		-298.8	64.7	310.2	301.4	8.73	35.534	
1,800.0	1,799.5	1,803.7	1,803.7	5.3	3.8	-126.88		-298.8	64.7	314.9	305.9	8.97	35.095	
1,805.0	1,804.4	1,808.6	1,808.6	5.3	3.8	-126.95		-298.8	64.7	315.2	306.3	8.99	35.076	
1,900.0	1,898.7	1,902.9	1,902.9	5.6	3.9	-128.49		-298.8	64.7	322.4	313.1	9.26	34.818	
1,995.0	1,992.5	1,996.7	1,996.7	5.9	3.9	-130.33		-298.8	64.7	331.9	322.3	9.55	34.746	
2,000.0	1,997.5	2,001.8	2,001.8	5.9	3.9	-130.43		-298.8	64.7	332.4	322.9	9.57	34.740	
2,090.0	2,085.8	2,095.8	2,095.8	6.2	4.1	-132.78		-297.6	65.7	343.0	333.1	9.94	34.503	
2,100.0	2,095.6	2,106.2	2,106.2	6.2	4.2	-133.07		-297.3	65.9	344.3	334.3	9.99	34.475	
2,185.0	2,178.5	2,193.8	2,193.6	6.6	4.4	-135.86		-293.7	68.8	355.6	345.2	10.41	34.153	
2,199.9	2,193.0	2,209.0	2,208.8	6.6	4.4	-136.40		-292.9	69.5	357.7	347.2	10.49	34.111	
2,280.0	2,270.7	2,290.3	2,289.8	6.9	4.7	-139.50		-287.4	74.0	369.4	358.5	10.87	33.981	
2,300.0	2,290.1	2,310.5	2,309.8	6.9	4.7	-140.29		-285.8	75.3	372.3	361.3	10.97	33.951	
2,375.0	2,362.9	2,385.7	2,384.5	7.2	5.0	-143.29		-278.7	81.0	383.4	372.1	11.33	33.831	
2,400.0	2,387.1	2,410.5	2,409.1	7.3	5.1	-144.31		-276.0	83.2	387.2	375.7	11.46	33.798	
2,470.0	2,455.0	2,479.7	2,477.5	7.5	5.3	-147.18		-267.7	90.0	398.1	386.3	11.81	33.712	
2,500.0	2,484.1	2,509.1	2,506.5	7.6	5.4	-148.43		-263.8	93.2	403.0	391.0	11.96	33.689	
2,565.0	2,547.2	2,572.3	2,568.5	7.8	5.6	-151.13		-254.6	100.6	413.9	401.6	12.30	33.655 SF	
2,600.0	2,581.2	2,606.0	2,601.5	8.0	5.8	-152.60		-249.2	105.0	420.0	407.5	12.48	33.657	
2,660.0	2,639.4	2,663.3	2,657.4	8.2	6.0	-155.11		-239.5	112.9	431.0	418.2	12.80	33.683	
2,700.0	2,678.2	2,701.1	2,694.1	8.3	6.1	-156.78		-232.6	118.5	438.7	425.7	13.01	33.728	
2,755.0	2,731.6	2,751.9	2,743.4	8.5	6.3	-158.98		-223.0	126.3	449.9	436.6	13.30	33.824	
2,800.0	2,775.2	2,793.5	2,783.8	8.7	6.4	-160.70		-215.2	132.6	459.6	446.1	13.55	33.929	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #501H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7123-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning					
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	+N/-S	+E/-W	Between Centres	Between Ellipses	Minimum Separation	Separation Factor
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	
2,850.0	2,823.8	2,839.8	2,828.7	8.9	6.6	-162.54	-206.5	139.7	470.8	457.0	13.82	34.064	
2,900.0	2,872.3	2,886.0	2,873.5	9.1	6.8	-164.31	-197.8	146.7	482.6	468.5	14.10	34.221	
2,945.0	2,915.9	2,927.6	2,913.9	9.3	6.9	-165.83	-190.0	153.1	493.5	479.2	14.36	34.372	
3,000.0	2,969.3	2,978.5	2,963.3	9.5	7.1	-167.60	-180.5	160.8	507.4	492.7	14.68	34.573	
3,040.0	3,008.1	3,015.5	2,999.1	9.7	7.2	-168.84	-173.5	166.5	517.7	502.8	14.91	34.723	
3,100.0	3,066.3	3,070.9	3,053.0	9.9	7.5	-170.61	-163.1	175.0	533.7	518.5	15.27	34.961	
3,135.0	3,100.3	3,103.3	3,084.4	10.1	7.6	-171.59	-157.0	179.9	543.3	527.8	15.48	35.101	
3,200.0	3,163.4	3,163.4	3,142.7	10.4	7.8	-173.34	-145.7	189.1	561.4	545.6	15.87	35.369	
3,230.0	3,192.5	3,191.2	3,169.6	10.5	7.9	-174.12	-140.5	193.3	570.0	553.9	16.06	35.492	
3,300.0	3,260.4	3,255.9	3,232.4	10.8	8.2	-175.84	-128.4	203.2	590.3	573.8	16.50	35.783	
3,325.0	3,284.6	3,279.0	3,254.9	10.9	8.3	-176.42	-124.0	206.7	597.7	581.0	16.65	35.886	
3,400.0	3,357.4	3,348.4	3,322.2	11.2	8.6	-178.11	-111.0	217.3	620.1	603.0	17.13	36.195	
3,420.0	3,376.8	3,366.9	3,340.1	11.3	8.6	-178.54	-107.5	220.1	626.2	609.0	17.26	36.276	
3,500.0	3,454.4	3,440.8	3,411.9	11.6	8.9	-179.82	-93.6	231.4	650.9	633.1	17.78	36.598	
3,515.0	3,469.0	3,454.7	3,425.3	11.7	9.0	-179.53	-91.0	233.5	655.5	637.6	17.88	36.657	
3,600.0	3,551.5	3,533.3	3,501.6	12.1	9.3	-177.93	-76.3	245.5	682.3	663.9	18.45	36.988	
3,610.0	3,561.2	3,542.6	3,510.6	12.1	9.4	-177.75	-74.5	246.9	685.5	667.0	18.51	37.026	
3,700.0	3,648.5	3,625.8	3,591.3	12.5	9.7	-176.20	-58.9	259.6	714.4	695.3	19.12	37.364	
3,705.0	3,653.4	3,630.4	3,595.8	12.6	9.8	-176.12	-58.0	260.3	716.0	696.9	19.15	37.382	
3,800.0	3,745.5	3,718.3	3,681.1	13.0	10.1	-174.61	-41.5	273.7	747.1	727.3	19.80	37.724	
3,895.0	3,837.7	3,806.1	3,766.3	13.4	10.5	-173.22	-25.0	287.1	778.5	758.1	20.46	38.051	
3,900.0	3,842.6	3,810.7	3,770.8	13.4	10.5	-173.15	-24.2	287.8	780.2	759.7	20.50	38.068	
3,990.0	3,929.9	3,893.9	3,851.5	13.8	10.9	-171.94	-8.5	300.5	810.4	789.3	21.12	38.364	
4,000.0	3,939.6	3,903.2	3,860.5	13.9	10.9	-171.81	-6.8	301.9	813.8	792.6	21.19	38.396	
4,085.0	4,022.1	3,981.8	3,936.8	14.3	11.3	-170.75	8.0	313.9	842.6	820.8	21.80	38.662	
4,100.0	4,036.6	3,995.7	3,950.2	14.3	11.4	-170.57	10.6	316.0	847.7	825.8	21.90	38.707	
4,180.0	4,114.3	4,069.6	4,022.0	14.7	11.7	-169.65	24.5	327.3	875.2	852.7	22.47	38.946	
4,200.0	4,133.7	4,088.1	4,040.0	14.8	11.8	-169.42	27.9	330.2	882.0	859.4	22.61	39.004	
4,275.0	4,206.4	4,157.5	4,107.2	15.1	12.1	-168.62	41.0	340.7	908.0	884.8	23.15	39.216	
4,300.0	4,230.7	4,180.6	4,129.7	15.3	12.2	-168.36	45.3	344.3	916.6	893.3	23.33	39.286	
4,370.0	4,298.6	4,245.3	4,192.5	15.6	12.5	-167.66	57.4	354.1	941.0	917.2	23.84	39.474	
4,400.0	4,327.7	4,273.1	4,219.4	15.7	12.6	-167.37	62.7	358.4	951.5	927.4	24.06	39.553	
4,465.0	4,390.8	4,333.2	4,277.7	16.0	12.9	-166.77	73.9	367.5	974.3	949.7	24.53	39.720	
4,500.0	4,424.7	4,365.6	4,309.1	16.2	13.0	-166.45	80.0	372.5	986.6	961.8	24.78	39.808	
4,560.0	4,483.0	4,421.0	4,363.0	16.5	13.3	-165.93	90.4	380.9	1,007.7	982.5	25.22	39.954	
4,600.0	4,521.8	4,458.0	4,398.8	16.6	13.5	-165.60	97.4	386.6	1,021.9	996.4	25.52	40.050	
4,655.0	4,575.1	4,508.9	4,448.2	16.9	13.7	-165.15	106.9	394.3	1,041.4	1,015.5	25.92	40.178	
4,700.0	4,618.8	4,550.5	4,488.6	17.1	13.9	-164.79	114.8	400.7	1,057.4	1,031.1	26.25	40.280	
4,750.0	4,667.3	4,596.7	4,533.4	17.4	14.1	-164.41	123.4	407.7	1,075.2	1,048.6	26.62	40.391	
4,800.0	4,715.8	4,643.0	4,578.3	17.6	14.3	-164.04	132.1	414.8	1,093.0	1,066.1	26.99	40.500	
4,845.0	4,759.5	4,684.6	4,618.7	17.8	14.5	-163.72	139.9	421.2	1,109.2	1,081.8	27.32	40.595	
4,900.0	4,812.9	4,735.4	4,668.0	18.1	14.8	-163.34	149.5	428.9	1,128.9	1,101.1	27.73	40.708	
4,940.0	4,851.7	4,772.4	4,703.9	18.2	14.9	-163.07	156.4	434.6	1,143.2	1,115.2	28.03	40.789	
5,000.0	4,909.9	4,827.9	4,757.7	18.5	15.2	-162.68	166.9	443.0	1,164.8	1,136.4	28.47	40.908	
5,035.0	4,943.9	4,860.3	4,789.2	18.7	15.3	-162.46	172.9	448.0	1,177.5	1,148.7	28.74	40.975	
5,100.0	5,006.9	4,920.4	4,847.5	19.0	15.6	-162.06	184.2	457.1	1,200.9	1,171.7	29.22	41.097	
5,130.0	5,036.0	4,948.1	4,874.4	19.1	15.7	-161.88	189.4	461.4	1,211.8	1,182.3	29.45	41.153	
5,200.0	5,104.0	5,012.9	4,937.2	19.5	16.1	-161.47	201.6	471.2	1,237.2	1,207.2	29.97	41.279	
5,225.0	5,128.2	5,036.0	4,959.6	19.6	16.2	-161.33	205.9	474.8	1,246.2	1,216.1	30.16	41.323	
5,300.0	5,201.0	5,105.3	5,026.9	19.9	16.5	-160.92	218.9	485.3	1,273.5	1,242.8	30.72	41.452	
5,320.0	5,220.4	5,123.8	5,044.9	20.0	16.6	-160.81	222.4	488.2	1,280.8	1,249.9	30.87	41.485	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design:	FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #501H - OWB - PWP0											Offset Site Error:	0.0 usft
Survey Program:	0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7123-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Rule Assigned:							
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	+N/-S	+E/-W	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
5,400.0	5,298.0	5,197.8	5,116.6	20.4	16.9	160.39	236.3	499.5	1,309.9	1,278.4	31.47	41.617	
5,415.0	5,312.6	5,211.7	5,130.1	20.5	17.0	160.32	238.9	501.6	1,315.4	1,283.8	31.59	41.641	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #502H - OWB - PWP0												Offset Site Error:	0.0 usft	
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7093-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)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	4.9	4.9	3.0	3.0	179.08		-299.9	4.8	299.9				
95.0	95.0	99.9	99.9	3.0	3.0	179.08		-299.9	4.8	299.9	293.9	6.02	49.839	
100.0	100.0	104.9	104.9	3.0	3.0	179.08		-299.9	4.8	299.9	293.9	6.02	49.814	
190.0	190.0	194.9	194.9	3.1	3.0	179.08		-299.9	4.8	299.9	293.8	6.13	48.897	
200.0	200.0	204.9	204.9	3.1	3.0	179.08		-299.9	4.8	299.9	293.8	6.15	48.752	
285.0	285.0	289.9	289.9	3.3	3.0	179.08		-299.9	4.8	299.9	293.7	6.27	47.872	
300.0	300.0	304.9	304.9	3.3	3.0	179.08		-299.9	4.8	299.9	293.7	6.29	47.698	
380.0	380.0	384.9	384.9	3.4	3.0	179.08		-299.9	4.8	299.9	293.5	6.40	46.874	
400.0	400.0	404.9	404.9	3.4	3.0	179.08		-299.9	4.8	299.9	293.5	6.43	46.654	
475.0	475.0	479.9	479.9	3.5	3.0	179.08		-299.9	4.8	299.9	293.4	6.54	45.887	
500.0	500.0	504.9	504.9	3.5	3.1	179.08		-299.9	4.8	299.9	293.4	6.57	45.621	
570.0	570.0	574.9	574.9	3.6	3.1	179.08		-299.9	4.8	299.9	293.3	6.68	44.914	
600.0	600.0	604.9	604.9	3.6	3.1	179.08		-299.9	4.8	299.9	293.2	6.72	44.602	
665.0	665.0	669.9	669.9	3.7	3.1	179.08		-299.9	4.8	299.9	293.1	6.82	43.953	
700.0	700.0	704.9	704.9	3.8	3.1	179.08		-299.9	4.8	299.9	293.1	6.88	43.598	
760.0	760.0	764.9	764.9	3.8	3.1	179.08		-299.9	4.8	299.9	293.0	6.97	43.008	
800.0	800.0	804.9	804.9	3.9	3.2	179.08		-299.9	4.8	299.9	292.9	7.04	42.610	
855.0	855.0	859.9	859.9	4.0	3.2	179.08		-299.9	4.8	299.9	292.8	7.13	42.078	
900.0	900.0	904.9	904.9	4.0	3.2	179.08		-299.9	4.8	299.9	292.7	7.20	41.640	
950.0	950.0	954.9	954.9	4.1	3.2	179.08		-299.9	4.8	299.9	292.7	7.29	41.166	
1,000.0	1,000.0	1,004.9	1,004.9	4.1	3.2	179.08		-299.9	4.8	299.9	292.6	7.37	40.690	
1,045.0	1,045.0	1,049.9	1,049.9	4.2	3.3	179.08		-299.9	4.8	299.9	292.5	7.45	40.272	
1,100.0	1,100.0	1,104.9	1,104.9	4.2	3.3	179.08		-299.9	4.8	299.9	292.4	7.54	39.760	
1,140.0	1,140.0	1,144.9	1,144.9	4.3	3.3	179.08		-299.9	4.8	299.9	292.3	7.61	39.397	
1,200.0	1,200.0	1,204.9	1,204.9	4.4	3.4	179.08		-299.9	4.8	299.9	292.2	7.72	38.853	
1,235.0	1,235.0	1,239.9	1,239.9	4.4	3.4	179.08		-299.9	4.8	299.9	292.2	7.78	38.542	
1,300.0	1,300.0	1,304.9	1,304.9	4.5	3.4	179.08		-299.9	4.8	299.9	292.0	7.90	37.967	
1,330.0	1,330.0	1,334.9	1,334.9	4.5	3.4	179.08		-299.9	4.8	299.9	292.0	7.95	37.708	
1,400.0	1,400.0	1,404.9	1,404.9	4.6	3.5	179.08		-299.9	4.8	299.9	291.9	8.08	37.105	
1,425.0	1,425.0	1,429.9	1,429.9	4.6	3.5	179.08		-299.9	4.8	299.9	291.8	8.13	36.894	
1,500.0	1,500.0	1,504.9	1,504.9	4.7	3.6	179.08		-299.9	4.8	299.9	291.7	8.27	36.266	
1,520.0	1,520.0	1,524.9	1,524.9	4.7	3.6	-113.40		-299.9	4.8	300.0	291.7	8.31	36.111	
1,600.0	1,600.0	1,604.9	1,604.9	4.8	3.6	-113.68		-299.9	4.8	300.6	292.2	8.46	35.553	
1,615.0	1,615.0	1,619.9	1,619.9	4.9	3.6	-113.77		-299.9	4.8	300.9	292.4	8.49	35.428	
1,700.0	1,699.8	1,704.7	1,704.7	5.0	3.7	-114.54		-299.9	4.8	302.8	294.1	8.70	34.790	
1,710.0	1,709.8	1,714.7	1,714.7	5.1	3.7	-114.66		-299.9	4.8	303.1	294.3	8.73	34.725	
1,800.0	1,799.5	1,804.4	1,804.4	5.3	3.8	-115.95		-299.9	4.8	306.5	297.5	8.96	34.213	
1,805.0	1,804.4	1,809.3	1,809.3	5.3	3.8	-116.04		-299.9	4.8	306.7	297.8	8.97	34.189	
1,900.0	1,898.7	1,903.6	1,903.6	5.6	3.9	-117.86		-299.9	4.8	312.1	302.8	9.23	33.815	
1,995.0	1,992.5	1,997.4	1,997.4	5.9	3.9	-120.05		-299.9	4.8	319.3	309.8	9.50	33.597	
2,000.0	1,997.5	2,002.6	2,002.6	5.9	3.9	-120.19		-299.9	4.8	319.7	310.2	9.52	33.579	
2,090.0	2,085.8	2,101.2	2,101.2	6.2	4.2	-122.74		-298.5	3.7	327.3	317.3	9.95	32.893	
2,100.0	2,095.6	2,112.2	2,112.1	6.2	4.2	-123.03		-298.1	3.5	328.0	318.0	10.00	32.793	
2,185.0	2,178.5	2,205.7	2,205.5	6.6	4.4	-125.55		-293.9	0.4	334.5	324.0	10.50	31.866	
2,199.9	2,193.0	2,222.1	2,221.9	6.6	4.5	-126.00		-292.9	-0.3	335.6	325.0	10.59	31.701	
2,280.0	2,270.7	2,310.7	2,310.1	6.9	4.8	-128.40		-286.3	-5.1	340.5	329.5	11.07	30.765	
2,300.0	2,290.1	2,333.0	2,332.2	6.9	4.8	-128.97		-284.3	-6.6	341.5	330.3	11.19	30.508	
2,375.0	2,362.9	2,416.6	2,415.1	7.2	5.1	-130.99		-275.5	-13.0	344.0	332.3	11.68	29.460	
2,400.0	2,387.1	2,444.6	2,442.8	7.3	5.2	-131.64		-272.1	-15.5	344.4	332.6	11.84	29.084	
2,470.0	2,455.0	2,523.0	2,520.1	7.5	5.5	-133.36		-261.5	-23.3	344.6	332.2	12.32	27.958	
2,500.0	2,484.1	2,556.6	2,553.1	7.6	5.6	-134.07		-256.4	-27.0	344.2	331.6	12.54	27.452	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #502H - OWB - PWP0												Offset Site Error:	0.0 usft	
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7093-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)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
2,565.0	2,547.2	2,629.6	2,624.5	7.8	5.9	-135.57	-244.3	-35.8	342.3	329.2	13.01	26.301		
2,600.0	2,581.2	2,668.8	2,662.8	8.0	6.0	-136.35	-237.1	-41.0	340.6	327.4	13.28	25.660		
2,660.0	2,639.4	2,734.8	2,726.8	8.2	6.2	-137.64	-224.2	-50.5	336.9	323.3	13.69	24.621		
2,700.0	2,678.2	2,774.5	2,765.2	8.3	6.4	-138.42	-216.2	-56.3	334.2	320.3	13.96	23.944		
2,755.0	2,731.6	2,829.0	2,817.9	8.5	6.5	-139.51	-205.2	-64.4	330.6	316.2	14.36	23.024		
2,800.0	2,775.2	2,873.6	2,861.1	8.7	6.7	-140.42	-196.2	-71.0	327.7	313.0	14.70	22.290		
2,850.0	2,823.8	2,923.1	2,909.1	8.9	6.9	-141.45	-186.1	-78.3	324.6	309.5	15.10	21.505		
2,900.0	2,872.3	2,972.7	2,957.1	9.1	7.1	-142.50	-176.1	-85.6	321.7	306.2	15.50	20.754		
2,945.0	2,915.9	3,017.3	3,000.3	9.3	7.2	-143.46	-167.1	-92.2	319.1	303.2	15.87	20.107		
3,000.0	2,969.3	3,071.8	3,053.0	9.5	7.4	-144.66	-156.1	-100.2	316.0	299.7	16.33	19.352		
3,040.0	3,008.1	3,111.4	3,091.4	9.7	7.6	-145.54	-148.1	-106.1	313.9	297.2	16.67	18.828		
3,100.0	3,066.3	3,170.9	3,149.0	9.9	7.8	-146.89	-136.0	-114.9	310.9	293.7	17.19	18.080		
3,135.0	3,100.3	3,205.6	3,182.6	10.1	8.0	-147.68	-129.0	-120.0	309.2	291.7	17.50	17.665		
3,200.0	3,163.4	3,270.0	3,244.9	10.4	8.2	-149.19	-116.0	-129.5	306.2	288.1	18.08	16.933		
3,230.0	3,192.5	3,299.7	3,273.7	10.5	8.3	-149.89	-110.0	-133.9	304.9	286.5	18.35	16.613		
3,300.0	3,260.4	3,369.1	3,340.9	10.8	8.6	-151.55	-96.0	-144.2	302.0	283.0	18.99	15.904		
3,325.0	3,284.6	3,393.9	3,364.9	10.9	8.7	-152.15	-90.9	-147.8	301.1	281.9	19.22	15.665		
3,400.0	3,357.4	3,468.2	3,436.8	11.2	9.1	-153.98	-75.9	-158.8	298.4	278.5	19.91	14.986		
3,420.0	3,376.8	3,488.0	3,456.0	11.3	9.1	-154.47	-71.9	-161.7	297.8	277.7	20.10	14.816		
3,500.0	3,454.4	3,567.3	3,532.8	11.6	9.5	-156.46	-55.9	-173.4	295.4	274.5	20.84	14.172		
3,515.0	3,469.0	3,582.2	3,547.2	11.7	9.5	-156.84	-52.9	-175.6	294.9	274.0	20.98	14.058		
3,600.0	3,551.5	3,666.4	3,628.7	12.1	9.9	-158.99	-35.8	-188.1	292.9	271.1	21.77	13.454		
3,610.0	3,561.2	3,676.4	3,638.3	12.1	10.0	-159.24	-33.8	-189.5	292.7	270.8	21.86	13.387		
3,700.0	3,648.5	3,765.6	3,724.7	12.5	10.3	-161.55	-15.8	-202.7	291.0	268.3	22.69	12.824		
3,705.0	3,653.4	3,770.5	3,729.5	12.6	10.4	-161.68	-14.8	-203.4	290.9	268.2	22.74	12.795		
3,800.0	3,745.5	3,864.7	3,820.6	13.0	10.8	-164.15	4.2	-217.3	289.7	266.1	23.60	12.276		
3,895.0	3,837.7	3,958.8	3,911.8	13.4	11.2	-166.62	23.3	-231.2	289.0	264.6	24.44	11.826		
3,900.0	3,842.6	3,963.8	3,916.6	13.4	11.2	-166.76	24.3	-232.0	289.0	264.5	24.48	11.804		
3,962.8	3,903.5	4,026.0	3,976.8	13.7	11.5	-168.40	36.9	-241.2	288.9	263.8	25.03	11.543 CC		
3,990.0	3,929.9	4,053.0	4,002.9	13.8	11.6	-169.11	42.3	-245.2	288.9	263.6	25.26	11.437		
4,000.0	3,939.6	4,062.9	4,012.5	13.9	11.7	-169.37	44.3	-246.6	288.9	263.6	25.34	11.400		
4,085.0	4,022.1	4,147.1	4,094.1	14.3	12.1	-171.59	61.4	-259.1	289.3	263.3	26.05	11.107		
4,100.0	4,036.6	4,162.0	4,108.5	14.3	12.1	-171.99	64.4	-261.3	289.4	263.3	26.17	11.059 ES		
4,180.0	4,114.3	4,241.3	4,185.3	14.7	12.5	-174.07	80.4	-273.0	290.3	263.5	26.81	10.829		
4,200.0	4,133.7	4,261.1	4,204.4	14.8	12.6	-174.58	84.4	-275.9	290.6	263.6	26.96	10.776		
4,275.0	4,206.4	4,335.4	4,276.4	15.1	12.9	-176.52	99.4	-286.9	291.8	264.3	27.53	10.599		
4,300.0	4,230.7	4,360.2	4,300.4	15.3	13.0	-177.16	104.5	-290.5	292.3	264.6	27.72	10.546		
4,370.0	4,298.6	4,429.6	4,367.6	15.6	13.4	-178.94	118.5	-300.8	293.9	265.7	28.22	10.414		
4,400.0	4,327.7	4,459.3	4,396.4	15.7	13.5	-179.69	124.5	-305.2	294.7	266.2	28.43	10.364		
4,465.0	4,390.8	4,523.7	4,458.7	16.0	13.8	-178.68	137.5	-314.7	296.5	267.6	28.87	10.269		
4,500.0	4,424.7	4,558.4	4,492.3	16.2	14.0	-177.81	144.5	-319.8	297.6	268.5	29.10	10.225		
4,560.0	4,483.0	4,617.9	4,549.9	16.5	14.2	-176.34	156.6	-328.6	299.6	270.1	29.49	10.161		
4,600.0	4,521.8	4,657.5	4,588.3	16.6	14.4	-175.37	164.6	-334.4	301.1	271.3	29.73	10.126		
4,655.0	4,575.1	4,712.1	4,641.0	16.9	14.7	-174.05	175.6	-342.5	303.2	273.1	30.06	10.087		
4,700.0	4,618.8	4,756.7	4,684.2	17.1	14.9	-172.99	184.6	-349.1	305.1	274.8	30.32	10.062		
4,750.0	4,667.3	4,806.2	4,732.2	17.4	15.1	-171.82	194.6	-356.4	307.3	276.7	30.60	10.043		
4,800.0	4,715.8	4,855.8	4,780.2	17.6	15.4	-170.67	204.7	-363.7	309.6	278.8	30.87	10.031		
4,845.0	4,759.5	4,900.4	4,823.3	17.8	15.6	-169.65	213.7	-370.3	311.8	280.7	31.10	10.027 SF		
4,900.0	4,812.9	4,954.9	4,876.1	18.1	15.8	-168.42	224.7	-378.4	314.7	283.3	31.37	10.029		
4,940.0	4,851.7	4,994.5	4,914.5	18.2	16.0	-167.54	232.7	-384.2	316.8	285.2	31.57	10.036		
5,000.0	4,909.9	5,054.0	4,972.1	18.5	16.3	-166.25	244.7	-393.0	320.2	288.3	31.85	10.054		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #502H - OWB - PWP0												Offset Site Error:	0.0 usft	
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7093-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)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,035.0	4,943.9	5,088.7	5,005.6	18.7	16.5	165.50		251.8	-398.1	322.2	290.2	32.00	10.068	
5,100.0	5,006.9	5,153.1	5,068.0	19.0	16.8	164.15		264.8	-407.6	326.1	293.9	32.29	10.102	
5,130.0	5,036.0	5,182.8	5,096.8	19.1	16.9	163.53		270.8	-412.0	328.0	295.6	32.41	10.120	
5,200.0	5,104.0	5,252.2	5,164.0	19.5	17.2	162.13		284.8	-422.3	332.5	299.8	32.70	10.170	
5,225.0	5,128.2	5,277.0	5,188.0	19.6	17.4	161.63		289.8	-425.9	334.2	301.4	32.79	10.191	
5,300.0	5,201.0	5,351.3	5,259.9	19.9	17.7	160.18		304.9	-436.9	339.3	306.2	33.08	10.258	
5,320.0	5,220.4	5,371.1	5,279.1	20.0	17.8	159.80		308.9	-439.8	340.7	307.6	33.15	10.277	
5,400.0	5,298.0	5,450.4	5,355.9	20.4	18.2	158.31		324.9	-451.5	346.5	313.1	33.44	10.362	
5,415.0	5,312.6	5,465.3	5,370.3	20.5	18.3	158.04		327.9	-453.7	347.6	314.1	33.49	10.379	
5,500.0	5,395.1	5,549.5	5,451.8	20.9	18.7	156.52		345.0	-466.2	354.0	320.2	33.78	10.480	
5,510.0	5,404.8	5,559.4	5,461.4	20.9	18.7	156.35		347.0	-467.7	354.8	321.0	33.81	10.493	
5,600.0	5,492.1	5,648.6	5,547.8	21.4	19.1	154.81		365.0	-480.8	361.9	327.8	34.10	10.612	
5,605.0	5,496.9	5,653.6	5,552.6	21.4	19.2	154.72		366.0	-481.6	362.3	328.2	34.12	10.618	
5,700.0	5,589.1	5,744.3	5,640.5	21.8	19.6	153.28		384.0	-494.7	370.3	335.9	34.41	10.761	
5,795.0	5,681.3	5,832.5	5,726.5	22.3	20.0	152.25		399.6	-506.1	379.9	345.1	34.77	10.927	
5,800.0	5,686.1	5,837.1	5,731.1	22.3	20.1	152.20		400.3	-506.6	380.5	345.7	34.79	10.936	
5,890.0	5,773.5	5,920.6	5,813.0	22.8	20.5	151.61		413.0	-515.9	391.1	355.9	35.21	11.109	
5,900.0	5,783.2	5,929.8	5,822.2	22.8	20.5	151.56		414.3	-516.8	392.4	357.2	35.26	11.129	
5,985.0	5,865.6	6,008.5	5,899.8	23.2	20.9	151.34		424.2	-524.1	403.9	368.1	35.73	11.304	
6,000.0	5,880.2	6,022.3	5,913.6	23.3	20.9	151.33		425.8	-525.2	406.0	370.2	35.82	11.336	
6,080.0	5,957.8	6,096.0	5,986.7	23.7	21.3	151.41		433.3	-530.7	418.1	381.7	36.33	11.508	
6,100.0	5,977.2	6,114.4	6,004.9	23.8	21.3	151.46		434.9	-531.9	421.2	384.8	36.46	11.553	
6,175.0	6,050.0	6,183.1	6,073.3	24.1	21.6	151.78		440.2	-535.7	433.7	396.7	36.99	11.724	
6,200.0	6,074.3	6,205.9	6,096.0	24.2	21.7	151.92		441.6	-536.8	438.1	400.9	37.18	11.783	
6,218.3	6,092.0	6,222.6	6,112.7	24.3	21.8	152.04		442.6	-537.5	441.4	404.1	37.31	11.829	
6,270.0	6,142.3	6,269.6	6,159.6	24.6	21.9	152.47		444.9	-539.2	450.5	412.8	37.70	11.948	
6,300.0	6,171.6	6,300.0	6,190.0	24.7	22.1	152.76		446.0	-540.0	455.6	417.6	37.98	11.996	
6,365.0	6,235.2	6,355.7	6,245.7	25.0	22.2	153.31		447.5	-541.1	466.3	427.9	38.40	12.143	
6,400.0	6,269.6	6,387.4	6,277.4	25.2	22.3	153.63		447.9	-541.4	471.8	433.2	38.66	12.206	
6,460.0	6,328.7	6,443.7	6,333.6	25.5	22.4	154.20		448.1	-541.5	480.9	441.8	39.07	12.310	
6,500.0	6,368.3	6,483.2	6,373.2	25.7	22.4	154.56		448.1	-541.5	486.4	447.0	39.35	12.361	
6,555.0	6,422.7	6,537.7	6,427.6	25.9	22.4	154.99		448.1	-541.5	493.2	453.5	39.71	12.418	
6,600.0	6,467.4	6,582.4	6,472.3	26.1	22.4	155.29		448.1	-541.5	498.0	458.0	40.00	12.450	
6,650.0	6,517.2	6,632.1	6,522.1	26.3	22.5	155.57		448.1	-541.5	502.7	462.4	40.29	12.475	
6,700.0	6,567.0	6,681.9	6,571.9	26.5	22.5	155.80		448.1	-541.5	506.5	466.0	40.57	12.485	
6,745.0	6,611.9	6,726.8	6,616.8	26.7	22.5	155.97		448.1	-541.5	509.3	468.6	40.79	12.486	
6,800.0	6,666.8	6,781.8	6,671.7	26.9	22.5	156.11		448.1	-541.5	511.9	470.9	41.05	12.471	
6,840.0	6,706.8	6,821.7	6,711.7	27.0	22.5	156.19		448.1	-541.5	513.2	472.0	41.20	12.456	
6,900.0	6,766.8	6,881.7	6,771.7	27.2	22.6	156.24		448.1	-541.5	514.1	472.7	41.40	12.416	
6,918.2	6,785.0	6,900.0	6,789.9	27.2	22.6	88.71		448.1	-541.5	514.1	472.7	41.43	12.409	
6,935.0	6,801.8	6,916.7	6,806.7	27.2	22.6	88.71		448.1	-541.5	514.1	472.7	41.45	12.405	
7,000.0	6,866.8	6,981.7	6,871.7	27.2	22.6	88.71		448.1	-541.5	514.1	472.6	41.50	12.388	
7,030.0	6,896.8	7,011.7	6,901.7	27.2	22.6	88.71		448.1	-541.5	514.1	472.6	41.53	12.380	
7,100.0	6,966.8	7,081.7	6,971.7	27.2	22.7	88.71		448.1	-541.5	514.1	472.5	41.59	12.362	
7,125.0	6,991.8	7,107.1	6,997.1	27.2	22.7	88.73		447.9	-541.5	514.1	472.5	41.62	12.353	
7,200.0	7,066.8	7,183.5	7,073.0	27.3	22.7	89.50		441.0	-541.6	514.0	472.1	41.91	12.265	
7,220.0	7,086.8	7,203.4	7,092.7	27.3	22.7	89.89		437.5	-541.6	513.9	471.9	42.03	12.229	
7,244.4	7,111.2	7,227.4	7,116.1	27.3	22.8	90.46		432.4	-541.6	513.9	471.7	42.19	12.180	
7,300.0	7,166.8	7,280.1	7,166.7	27.3	22.8	92.08		417.8	-541.7	514.1	471.5	42.61	12.066	
7,315.0	7,181.8	7,293.8	7,179.7	27.3	22.8	92.59		413.3	-541.8	514.3	471.6	42.73	12.036	
7,400.0	7,266.8	7,366.9	7,246.5	27.3	22.9	95.85		383.9	-542.0	516.8	473.4	43.34	11.923	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #502H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7093-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Rule Assigned: Distance					
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	
7,410.0	7,276.8	7,374.9	7,253.7	27.3	22.9	96.26	380.1	-542.0	517.3	473.9	43.40	11.919		
7,500.0	7,366.8	7,442.0	7,310.8	27.4	22.9	100.10	345.1	-542.3	524.8	481.1	43.73	12.002		
7,505.0	7,371.8	7,445.4	7,313.6	27.4	22.9	100.31	343.1	-542.3	525.4	481.7	43.73	12.015		
7,600.0	7,466.8	7,500.0	7,356.6	27.4	23.0	103.90	309.6	-542.6	540.8	497.5	43.29	12.491		
7,695.0	7,561.8	7,550.0	7,393.0	27.4	23.0	107.45	275.4	-542.9	564.7	522.3	42.42	13.313		
7,700.0	7,566.8	7,558.8	7,399.1	27.4	23.0	108.09	269.0	-542.9	566.2	523.6	42.59	13.293		
7,790.0	7,656.8	7,600.0	7,426.4	27.5	23.1	111.17	238.1	-543.2	597.7	556.3	41.34	14.457		
7,800.0	7,666.8	7,600.0	7,426.4	27.5	23.1	111.17	238.1	-543.2	601.7	560.6	41.04	14.662		
7,885.0	7,751.8	7,635.4	7,447.9	27.5	23.1	113.86	210.0	-543.4	639.4	599.7	39.69	16.112		
7,900.0	7,766.8	7,650.0	7,456.3	27.5	23.1	114.97	198.1	-543.5	646.9	607.2	39.72	16.287		
7,980.0	7,846.8	7,666.3	7,465.3	27.5	23.1	116.21	184.5	-543.6	689.1	651.1	37.97	18.149		
8,000.0	7,866.8	7,672.2	7,468.4	27.5	23.1	116.66	179.5	-543.6	700.5	662.8	37.61	18.623		
8,075.0	7,941.8	7,700.0	7,482.7	27.6	23.2	118.77	155.6	-543.8	745.7	709.1	36.52	20.416		
8,100.0	7,966.8	7,700.0	7,482.7	27.6	23.2	118.77	155.6	-543.8	761.5	725.5	35.94	21.186		
8,170.0	8,036.8	7,715.5	7,490.0	27.6	23.2	119.93	142.0	-543.9	807.9	773.1	34.85	23.184		
8,200.0	8,066.8	7,722.0	7,493.1	27.6	23.2	120.41	136.2	-544.0	828.6	794.2	34.43	24.070		
8,265.0	8,131.8	7,735.3	7,499.0	27.6	23.2	121.40	124.4	-544.1	875.0	841.4	33.59	26.052		
8,300.0	8,166.8	7,750.0	7,505.2	27.6	23.2	122.48	111.0	-544.2	900.9	867.5	33.35	27.014		
8,360.0	8,226.8	7,750.0	7,505.2	27.6	23.2	122.48	111.0	-544.2	946.1	913.6	32.50	29.109		
8,400.0	8,266.8	7,750.0	7,505.2	27.7	23.2	122.48	111.0	-544.2	977.2	945.2	32.01	30.524		
8,455.0	8,321.8	7,767.8	7,512.3	27.7	23.2	123.77	94.6	-544.3	1,020.5	988.8	31.73	32.158		
8,500.0	8,366.8	7,774.4	7,514.8	27.7	23.2	124.25	88.5	-544.4	1,056.7	1,025.3	31.41	33.638		
8,550.0	8,416.8	7,781.3	7,517.3	27.7	23.2	124.74	82.1	-544.4	1,097.6	1,066.5	31.11	35.285		
8,600.0	8,466.8	7,800.0	7,523.8	27.7	23.2	126.05	64.6	-544.5	1,139.3	1,108.2	31.02	36.731		
8,645.0	8,511.8	7,800.0	7,523.8	27.7	23.2	126.05	64.6	-544.5	1,177.0	1,146.2	30.73	38.297		
8,700.0	8,566.8	7,800.0	7,523.8	27.8	23.2	126.05	64.6	-544.5	1,223.7	1,193.3	30.45	40.194		
8,740.0	8,606.8	7,800.0	7,523.8	27.8	23.2	126.05	64.6	-544.5	1,258.1	1,227.9	30.27	41.560		
8,800.0	8,666.8	7,800.0	7,523.8	27.8	23.2	126.05	64.6	-544.5	1,310.4	1,280.3	30.07	43.583		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #503H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7106-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Offset	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Distance	Between Centres	Between Ellipses	Minimum Separation	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)	(usft)	(usft)	(usft)			
5,200.0	5,104.0	5,462.5	5,367.5	19.5	18.2	-29.25	202.3	-2,027.4	1,303.7	1,271.6	32.07	40.645		
5,225.0	5,128.2	5,485.5	5,389.8	19.6	18.4	-29.18	206.8	-2,023.7	1,294.0	1,261.8	32.26	40.113		
5,300.0	5,201.0	5,554.6	5,456.7	19.9	18.7	-28.98	220.1	-2,012.7	1,265.2	1,232.4	32.82	38.553		
5,320.0	5,220.4	5,573.0	5,474.5	20.0	18.8	-28.92	223.6	-2,009.7	1,257.5	1,224.5	32.97	38.145		
5,400.0	5,298.0	5,646.7	5,545.9	20.4	19.1	-28.70	237.8	-1,997.9	1,226.7	1,193.2	33.56	36.553		
5,415.0	5,312.6	5,660.5	5,559.3	20.5	19.2	-28.65	240.4	-1,995.7	1,221.0	1,187.3	33.67	36.261		
5,500.0	5,395.1	5,738.9	5,635.1	20.9	19.6	-28.40	255.5	-1,983.1	1,188.3	1,154.0	34.30	34.642		
5,510.0	5,404.8	5,748.1	5,644.0	20.9	19.6	-28.36	257.3	-1,981.6	1,184.5	1,150.1	34.38	34.455		
5,600.0	5,492.1	5,831.0	5,724.3	21.4	20.0	-28.07	273.2	-1,968.4	1,149.9	1,114.9	35.04	32.813		
5,605.0	5,496.9	5,835.6	5,728.8	21.4	20.0	-28.06	274.1	-1,967.6	1,148.0	1,112.9	35.08	32.724		
5,700.0	5,589.1	5,923.1	5,813.5	21.8	20.5	-27.73	291.0	-1,953.6	1,111.5	1,075.8	35.78	31.062		
5,795.0	5,681.3	6,010.7	5,898.2	22.3	20.9	-27.38	307.8	-1,939.6	1,075.1	1,038.6	36.49	29.466		
5,800.0	5,686.1	6,015.3	5,902.7	22.3	20.9	-27.36	308.7	-1,938.8	1,073.2	1,036.7	36.52	29.384		
5,890.0	5,773.5	6,098.2	5,983.0	22.8	21.3	-27.01	324.7	-1,925.5	1,038.7	1,001.6	37.19	27.933		
5,900.0	5,783.2	6,107.4	5,991.9	22.8	21.4	-26.97	326.4	-1,924.1	1,034.9	997.7	37.26	27.775		
5,985.0	5,865.6	6,185.7	6,067.7	23.2	21.7	-26.61	341.5	-1,911.5	1,002.4	964.5	37.88	26.461		
6,000.0	5,880.2	6,198.4	6,080.0	23.3	21.8	-26.55	344.0	-1,909.5	996.7	958.7	37.99	26.233		
6,080.0	5,957.8	6,258.4	6,138.3	23.7	22.1	-26.29	355.0	-1,900.3	966.7	928.1	38.62	25.031		
6,100.0	5,977.2	6,273.6	6,153.1	23.8	22.2	-26.23	357.6	-1,898.1	959.4	920.6	38.78	24.741		
6,175.0	6,050.0	6,330.8	6,208.9	24.1	22.4	-26.04	367.0	-1,890.3	932.6	893.2	39.37	23.690		
6,200.0	6,074.3	6,350.0	6,227.7	24.2	22.5	-25.99	369.9	-1,887.8	923.8	884.3	39.56	23.353		
6,218.3	6,092.0	6,364.1	6,241.6	24.3	22.6	-25.95	372.0	-1,886.1	917.5	877.8	39.70	23.112		
6,270.0	6,142.3	6,400.0	6,276.9	24.6	22.8	-25.70	377.2	-1,881.8	900.4	860.2	40.11	22.449		
6,300.0	6,171.6	6,427.8	6,304.2	24.7	22.9	-25.55	380.9	-1,878.7	891.0	850.6	40.33	22.094		
6,365.0	6,235.2	6,479.3	6,355.1	25.0	23.1	-25.27	387.3	-1,873.3	872.1	831.3	40.82	21.363		
6,400.0	6,269.6	6,500.0	6,375.5	25.2	23.2	-25.14	389.7	-1,871.4	862.8	821.7	41.10	20.994		
6,460.0	6,328.7	6,555.9	6,430.9	25.5	23.5	-24.90	395.6	-1,866.5	848.3	806.7	41.52	20.428		
6,500.0	6,368.3	6,588.5	6,463.2	25.7	23.6	-24.77	398.6	-1,864.0	839.5	797.7	41.81	20.077		
6,555.0	6,422.7	6,633.7	6,508.2	25.9	23.8	-24.60	402.3	-1,860.9	828.8	786.6	42.19	19.644		
6,600.0	6,467.4	6,670.9	6,545.2	26.1	24.0	-24.48	405.0	-1,858.7	821.2	778.7	42.50	19.323		
6,650.0	6,517.2	6,712.5	6,586.7	26.3	24.1	-24.37	407.5	-1,856.6	813.9	771.1	42.82	19.008		
6,700.0	6,567.0	6,754.2	6,628.4	26.5	24.3	-24.28	409.6	-1,854.8	807.9	764.8	43.13	18.732		
6,745.0	6,611.9	6,792.0	6,666.1	26.7	24.4	-24.22	411.1	-1,853.6	803.6	760.2	43.39	18.520		
6,800.0	6,666.8	6,838.3	6,712.3	26.9	24.6	-24.17	412.3	-1,852.5	799.8	756.1	43.69	18.305		
6,840.0	6,706.8	6,872.0	6,746.0	27.0	24.7	-24.15	412.9	-1,852.0	797.9	754.0	43.88	18.186		
6,900.0	6,766.8	6,923.3	6,797.4	27.2	24.8	-24.14	413.2	-1,851.8	796.7	752.6	44.12	18.059		
6,918.2	6,785.0	6,941.6	6,815.6	27.2	24.8	-91.67	413.2	-1,851.8	796.6	752.5	44.14	18.048		
6,935.0	6,801.8	6,958.3	6,832.4	27.2	24.8	-91.67	413.2	-1,851.8	796.6	752.5	44.15	18.044		
7,000.0	6,866.8	7,023.3	6,897.4	27.2	24.8	-91.67	413.2	-1,851.8	796.6	752.4	44.19	18.026		
7,030.0	6,896.8	7,053.3	6,927.4	27.2	24.8	-91.67	413.2	-1,851.8	796.6	752.4	44.22	18.016		
7,034.0	6,900.8	7,057.4	6,931.4	27.2	24.8	-91.67	413.2	-1,851.8	796.6	752.4	44.22	18.015 CC		
7,100.0	6,966.8	7,122.5	6,996.5	27.2	24.8	-91.69	413.0	-1,851.8	796.6	752.4	44.27	17.995 ES		
7,125.0	6,991.8	7,146.2	7,020.2	27.2	24.9	-91.78	411.8	-1,851.8	796.7	752.4	44.29	17.989		
7,200.0	7,066.8	7,216.1	7,089.5	27.3	24.9	-92.43	402.7	-1,851.9	797.1	752.8	44.37	17.966		
7,220.0	7,086.8	7,234.3	7,107.2	27.3	24.9	-92.70	398.9	-1,851.9	797.4	753.0	44.40	17.961		
7,300.0	7,166.8	7,304.2	7,174.3	27.3	25.0	-94.11	379.3	-1,852.1	799.0	754.5	44.51	17.950 SF		
7,315.0	7,181.8	7,316.7	7,186.0	27.3	25.0	-94.42	374.9	-1,852.1	799.4	754.9	44.53	17.952		
7,400.0	7,266.8	7,383.5	7,246.8	27.3	25.0	-96.39	347.3	-1,852.4	803.4	758.8	44.63	18.002		
7,410.0	7,276.8	7,390.9	7,253.3	27.3	25.0	-96.63	343.8	-1,852.4	804.1	759.4	44.64	18.013		
7,500.0	7,366.8	7,450.0	7,303.7	27.4	25.1	-98.80	313.0	-1,852.7	812.1	767.5	44.63	18.196		
7,505.0	7,371.8	7,456.0	7,308.7	27.4	25.1	-99.04	309.6	-1,852.7	812.7	768.0	44.64	18.205		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design:	FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #503H - OWB - PWP0										Offset Site Error:	0.0 usft
Survey Program:	0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7106-r.5 MWD+IFR1+MS										Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
7,600.0	7,466.8	7,512.2	7,353.1	27.4	25.1	-101.44	275.2	-1,853.0	826.4	781.9	44.47	18.581
7,695.0	7,561.8	7,560.3	7,388.2	27.4	25.2	-103.68	242.3	-1,853.3	846.1	802.0	44.10	19.183
7,700.0	7,566.8	7,562.7	7,389.9	27.4	25.2	-103.79	240.7	-1,853.3	847.3	803.2	44.08	19.222
7,790.0	7,656.8	7,600.0	7,415.1	27.5	25.2	-105.64	213.1	-1,853.5	872.3	828.8	43.53	20.041
7,800.0	7,666.8	7,600.0	7,415.1	27.5	25.2	-105.64	213.1	-1,853.5	875.5	832.0	43.43	20.160
7,885.0	7,751.8	7,636.7	7,438.0	27.5	25.2	-107.52	184.5	-1,853.8	905.2	862.4	42.80	21.148
7,900.0	7,766.8	7,650.0	7,445.9	27.5	25.2	-108.21	173.8	-1,853.9	911.0	868.3	42.73	21.318
7,980.0	7,846.8	7,666.9	7,455.6	27.5	25.2	-109.11	159.9	-1,854.0	944.5	902.5	41.95	22.516
8,000.0	7,866.8	7,672.8	7,458.8	27.5	25.2	-109.42	155.0	-1,854.0	953.5	911.8	41.76	22.835
8,075.0	7,941.8	7,700.0	7,473.2	27.6	25.3	-110.87	131.9	-1,854.2	989.9	948.8	41.08	24.098
8,100.0	7,966.8	7,700.0	7,473.2	27.6	25.3	-110.87	131.9	-1,854.2	1,002.7	962.0	40.79	24.586
8,170.0	8,036.8	7,715.8	7,481.1	27.6	25.3	-111.72	118.2	-1,854.4	1,040.8	1,000.7	40.09	25.958
8,200.0	8,066.8	7,722.4	7,484.2	27.6	25.3	-112.08	112.4	-1,854.4	1,057.9	1,018.1	39.80	26.579
8,265.0	8,131.8	7,735.7	7,490.4	27.6	25.3	-112.80	100.6	-1,854.5	1,096.7	1,057.5	39.19	27.986
8,300.0	8,166.8	7,750.0	7,496.8	27.6	25.3	-113.57	87.8	-1,854.6	1,118.5	1,079.6	38.92	28.740
8,360.0	8,226.8	7,750.0	7,496.8	27.6	25.3	-113.57	87.8	-1,854.6	1,157.0	1,118.7	38.31	30.198
8,400.0	8,266.8	7,750.0	7,496.8	27.7	25.3	-113.57	87.8	-1,854.6	1,183.7	1,145.8	37.93	31.205
8,455.0	8,321.8	7,768.8	7,504.6	27.7	25.3	-114.59	70.8	-1,854.8	1,221.2	1,183.6	37.56	32.512
8,500.0	8,366.8	7,775.5	7,507.2	27.7	25.3	-114.95	64.6	-1,854.8	1,252.8	1,215.6	37.22	33.657
8,550.0	8,416.8	7,782.6	7,510.0	27.7	25.3	-115.33	58.1	-1,854.9	1,288.8	1,251.9	36.87	34.954

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0												Offset Site Error:	0.0 usft	
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7459-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)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	4.5	4.5	3.0	3.0	173.39		-299.3	34.7	301.3				
95.0	95.0	99.5	99.5	3.0	3.0	173.39		-299.3	34.7	301.3	295.3	6.02	50.067	
100.0	100.0	104.5	104.5	3.0	3.0	173.39		-299.3	34.7	301.3	295.3	6.02	50.041	
190.0	190.0	194.5	194.5	3.1	3.0	173.39		-299.3	34.7	301.3	295.2	6.13	49.121	
200.0	200.0	204.5	204.5	3.1	3.0	173.39		-299.3	34.7	301.3	295.2	6.15	48.975	
285.0	285.0	289.5	289.5	3.3	3.0	173.39		-299.3	34.7	301.3	295.0	6.27	48.093	
300.0	300.0	304.5	304.5	3.3	3.0	173.39		-299.3	34.7	301.3	295.0	6.29	47.918	
380.0	380.0	384.5	384.5	3.4	3.0	173.39		-299.3	34.7	301.3	294.9	6.40	47.092	
400.0	400.0	404.5	404.5	3.4	3.0	173.39		-299.3	34.7	301.3	294.9	6.43	46.871	
475.0	475.0	479.5	479.5	3.5	3.0	173.39		-299.3	34.7	301.3	294.8	6.54	46.103	
500.0	500.0	504.5	504.5	3.5	3.1	173.39		-299.3	34.7	301.3	294.7	6.57	45.836	
570.0	570.0	574.5	574.5	3.6	3.1	173.39		-299.3	34.7	301.3	294.6	6.68	45.128	
600.0	600.0	604.5	604.5	3.6	3.1	173.39		-299.3	34.7	301.3	294.6	6.72	44.815	
665.0	665.0	669.5	669.5	3.7	3.1	173.39		-299.3	34.7	301.3	294.5	6.82	44.166	
700.0	700.0	704.5	704.5	3.8	3.1	173.39		-299.3	34.7	301.3	294.4	6.88	43.809	
760.0	760.0	764.5	764.5	3.8	3.1	173.39		-299.3	34.7	301.3	294.3	6.97	43.219	
800.0	800.0	804.5	804.5	3.9	3.2	173.39		-299.3	34.7	301.3	294.3	7.04	42.820	
855.0	855.0	859.5	859.5	4.0	3.2	173.39		-299.3	34.7	301.3	294.2	7.13	42.288	
900.0	900.0	904.5	904.5	4.0	3.2	173.39		-299.3	34.7	301.3	294.1	7.20	41.849	
950.0	950.0	954.5	954.5	4.1	3.2	173.39		-299.3	34.7	301.3	294.0	7.28	41.375	
1,000.0	1,000.0	1,004.5	1,004.5	4.1	3.2	173.39		-299.3	34.7	301.3	293.9	7.37	40.898	
1,045.0	1,045.0	1,049.5	1,049.5	4.2	3.3	173.39		-299.3	34.7	301.3	293.9	7.44	40.480	
1,100.0	1,100.0	1,104.5	1,104.5	4.2	3.3	173.39		-299.3	34.7	301.3	293.8	7.54	39.968	
1,140.0	1,140.0	1,144.5	1,144.5	4.3	3.3	173.39		-299.3	34.7	301.3	293.7	7.61	39.604	
1,200.0	1,200.0	1,204.5	1,204.5	4.4	3.4	173.39		-299.3	34.7	301.3	293.6	7.71	39.059	
1,235.0	1,235.0	1,239.5	1,239.5	4.4	3.4	173.39		-299.3	34.7	301.3	293.5	7.78	38.748	
1,300.0	1,300.0	1,304.5	1,304.5	4.5	3.4	173.39		-299.3	34.7	301.3	293.4	7.89	38.173	
1,330.0	1,330.0	1,334.5	1,334.5	4.5	3.4	173.39		-299.3	34.7	301.3	293.4	7.95	37.913	
1,400.0	1,400.0	1,404.5	1,404.5	4.6	3.5	173.39		-299.3	34.7	301.3	293.2	8.08	37.309	
1,425.0	1,425.0	1,429.5	1,429.5	4.6	3.5	173.39		-299.3	34.7	301.3	293.2	8.12	37.098	
1,500.0	1,500.0	1,504.5	1,504.5	4.7	3.5	173.39		-299.3	34.7	301.3	293.0	8.26	36.469 CC	
1,520.0	1,520.0	1,524.5	1,524.5	4.7	3.6	-119.09		-299.3	34.7	301.3	293.0	8.30	36.312 ES	
1,600.0	1,600.0	1,604.5	1,604.5	4.8	3.6	-119.35		-299.3	34.7	302.2	293.7	8.45	35.740	
1,615.0	1,615.0	1,619.5	1,619.5	4.9	3.6	-119.44		-299.3	34.7	302.4	293.9	8.49	35.616	
1,700.0	1,699.8	1,704.3	1,704.3	5.0	3.7	-120.17		-299.3	34.7	304.8	296.0	8.71	34.997	
1,710.0	1,709.8	1,714.3	1,714.3	5.1	3.7	-120.28		-299.3	34.7	305.1	296.4	8.73	34.935	
1,800.0	1,799.5	1,804.0	1,804.0	5.3	3.8	-121.48		-299.3	34.7	309.2	300.3	8.97	34.470	
1,805.0	1,804.4	1,808.9	1,808.9	5.3	3.8	-121.56		-299.3	34.7	309.5	300.5	8.98	34.448	
1,900.0	1,898.7	1,903.2	1,903.2	5.6	3.9	-123.25		-299.3	34.7	315.8	306.5	9.25	34.143	
1,995.0	1,992.5	1,997.0	1,997.0	5.9	3.9	-125.28		-299.3	34.7	324.2	314.7	9.53	34.010	
2,000.0	1,997.5	2,002.2	2,002.2	5.9	3.9	-125.40		-299.3	34.7	324.7	315.1	9.55	33.996	
2,090.0	2,085.8	2,101.7	2,101.7	6.2	4.2	-127.98		-297.5	34.7	333.4	323.4	10.00	33.324	
2,100.0	2,095.6	2,112.8	2,112.7	6.2	4.2	-128.29		-297.1	34.7	334.3	324.3	10.06	33.224	
2,185.0	2,178.5	2,206.4	2,206.3	6.6	4.5	-131.17		-291.9	34.7	342.0	331.5	10.57	32.354	
2,199.9	2,193.0	2,222.9	2,222.6	6.6	4.6	-131.71		-290.6	34.7	343.4	332.7	10.66	32.202	
2,280.0	2,270.7	2,310.8	2,310.2	6.9	4.9	-134.77		-282.5	34.8	349.8	338.7	11.14	31.396	
2,300.0	2,290.1	2,332.8	2,332.1	6.9	4.9	-135.54		-280.0	34.8	351.2	340.0	11.27	31.179	
2,375.0	2,362.9	2,415.1	2,413.6	7.2	5.2	-138.47		-269.3	34.8	355.7	344.0	11.73	30.314	
2,400.0	2,387.1	2,442.5	2,440.7	7.3	5.3	-139.46		-265.2	34.9	357.0	345.1	11.89	30.013	
2,470.0	2,455.0	2,519.0	2,516.1	7.5	5.6	-142.30		-252.4	34.9	359.8	347.5	12.34	29.168	
2,500.0	2,484.1	2,551.7	2,548.3	7.6	5.7	-143.55		-246.3	35.0	360.8	348.3	12.51	28.846	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0												Offset Site Error:	0.0 usft	
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7459-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)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
2,565.0	2,547.2	2,617.2	2,612.5	7.8	5.8	-146.09	-233.4	35.0	362.8	349.9	12.87	28.190		
2,600.0	2,581.2	2,651.1	2,645.7	8.0	5.9	-147.40	-226.6	35.1	364.1	351.0	13.08	27.830		
2,660.0	2,639.4	2,709.3	2,702.7	8.2	6.1	-149.61	-215.0	35.1	366.7	353.3	13.45	27.263		
2,700.0	2,678.2	2,748.0	2,740.7	8.3	6.2	-151.08	-207.3	35.1	368.8	355.1	13.70	26.922		
2,755.0	2,731.6	2,801.3	2,792.9	8.5	6.4	-153.06	-196.7	35.2	372.1	358.1	14.04	26.497		
2,800.0	2,775.2	2,844.9	2,835.7	8.7	6.6	-154.65	-188.0	35.2	375.2	360.9	14.33	26.188		
2,850.0	2,823.8	2,893.4	2,883.1	8.9	6.7	-156.39	-178.3	35.3	378.9	364.3	14.64	25.882		
2,900.0	2,872.3	2,941.8	2,930.6	9.1	6.9	-158.10	-168.6	35.3	383.0	368.1	14.95	25.615		
2,945.0	2,915.9	2,985.4	2,973.3	9.3	7.1	-159.61	-159.9	35.4	387.0	371.8	15.23	25.405		
3,000.0	2,969.3	3,038.7	3,025.6	9.5	7.3	-161.41	-149.3	35.4	392.3	376.7	15.57	25.187		
3,040.0	3,008.1	3,077.5	3,063.5	9.7	7.4	-162.69	-141.6	35.5	396.4	380.5	15.82	25.052		
3,100.0	3,066.3	3,135.6	3,120.5	9.9	7.6	-164.57	-130.0	35.5	402.8	386.6	16.19	24.887		
3,135.0	3,100.3	3,169.6	3,153.8	10.1	7.7	-165.63	-123.2	35.6	406.8	390.4	16.40	24.809		
3,200.0	3,163.4	3,232.5	3,215.5	10.4	8.0	-167.56	-110.6	35.6	414.6	397.8	16.79	24.698		
3,230.0	3,192.5	3,261.6	3,244.0	10.5	8.1	-168.42	-104.8	35.6	418.3	401.4	16.96	24.660		
3,300.0	3,260.4	3,329.4	3,310.4	10.8	8.4	-170.39	-91.3	35.7	427.4	410.1	17.37	24.604		
3,325.0	3,284.6	3,353.7	3,334.2	10.9	8.5	-171.07	-86.5	35.7	430.8	413.3	17.52	24.594		
3,400.0	3,357.4	3,426.3	3,405.4	11.2	8.8	-173.05	-72.0	35.8	441.3	423.4	17.95	24.591 SF		
3,420.0	3,376.8	3,445.7	3,424.4	11.3	8.8	-173.56	-68.1	35.8	444.2	426.1	18.06	24.596		
3,500.0	3,454.4	3,523.2	3,500.3	11.6	9.2	-175.55	-52.7	35.9	456.1	437.6	18.51	24.643		
3,515.0	3,469.0	3,537.8	3,514.6	11.7	9.2	-175.91	-49.8	35.9	458.4	439.8	18.59	24.656		
3,600.0	3,551.5	3,620.2	3,595.3	12.1	9.6	-177.90	-33.3	36.0	471.7	452.6	19.06	24.750		
3,610.0	3,561.2	3,629.8	3,604.8	12.1	9.6	-178.13	-31.4	36.0	473.3	454.2	19.11	24.764		
3,700.0	3,648.5	3,717.1	3,690.3	12.5	10.0	179.90	-14.0	36.1	488.1	468.5	19.60	24.902		
3,705.0	3,653.4	3,721.9	3,695.0	12.6	10.0	179.79	-13.0	36.1	488.9	469.3	19.63	24.910		
3,800.0	3,745.5	3,814.0	3,785.2	13.0	10.4	177.84	5.3	36.2	505.1	485.0	20.13	25.089		
3,895.0	3,837.7	3,906.0	3,875.4	13.4	10.8	176.01	23.7	36.3	521.9	501.2	20.63	25.292		
3,900.0	3,842.6	3,910.9	3,880.2	13.4	10.8	175.92	24.6	36.3	522.8	502.1	20.66	25.303		
3,990.0	3,929.9	3,998.1	3,965.6	13.8	11.2	174.29	42.0	36.4	539.1	518.0	21.13	25.514		
4,000.0	3,939.6	4,007.8	3,975.1	13.9	11.2	174.11	44.0	36.4	541.0	519.8	21.18	25.539		
4,085.0	4,022.1	4,090.1	4,055.8	14.3	11.6	172.67	60.4	36.4	556.8	535.2	21.62	25.752		
4,100.0	4,036.6	4,104.7	4,070.1	14.3	11.6	172.43	63.3	36.5	559.7	538.0	21.70	25.790		
4,180.0	4,114.3	4,182.2	4,146.0	14.7	12.0	171.16	78.8	36.5	575.0	552.8	22.11	26.000		
4,200.0	4,133.7	4,201.6	4,165.0	14.8	12.0	170.85	82.6	36.6	578.8	556.6	22.22	26.053		
4,275.0	4,206.4	4,274.2	4,236.3	15.1	12.4	169.73	97.1	36.6	593.5	570.8	22.60	26.255		
4,300.0	4,230.7	4,298.5	4,260.0	15.3	12.5	169.37	101.9	36.6	598.4	575.6	22.73	26.323		
4,370.0	4,298.6	4,366.3	4,326.5	15.6	12.8	168.39	115.5	36.7	612.3	589.2	23.09	26.515		
4,400.0	4,327.7	4,395.4	4,354.9	15.7	12.9	167.98	121.3	36.7	618.3	595.1	23.25	26.598		
4,465.0	4,390.8	4,458.4	4,416.7	16.0	13.2	167.13	133.8	36.8	631.4	607.9	23.58	26.778		
4,500.0	4,424.7	4,492.3	4,449.9	16.2	13.3	166.68	140.6	36.8	638.6	614.8	23.76	26.875		
4,560.0	4,483.0	4,550.4	4,506.9	16.5	13.6	165.94	152.2	36.9	650.9	626.8	24.07	27.040		
4,600.0	4,521.8	4,589.2	4,544.9	16.6	13.8	165.46	159.9	36.9	659.1	634.8	24.28	27.151		
4,655.0	4,575.1	4,642.5	4,597.1	16.9	14.0	164.82	170.6	37.0	670.6	646.0	24.56	27.302		
4,700.0	4,618.8	4,686.1	4,639.8	17.1	14.2	164.31	179.3	37.0	680.0	655.2	24.79	27.425		
4,750.0	4,667.3	4,734.5	4,687.3	17.4	14.4	163.76	188.9	37.1	690.5	665.4	25.05	27.561		
4,800.0	4,715.8	4,783.0	4,734.8	17.6	14.6	163.23	198.6	37.1	701.0	675.7	25.31	27.697		
4,845.0	4,759.5	4,826.6	4,777.5	17.8	14.8	162.76	207.3	37.2	710.6	685.1	25.55	27.817		
4,900.0	4,812.9	4,879.9	4,829.7	18.1	15.1	162.21	217.9	37.2	722.4	696.5	25.83	27.963		
4,940.0	4,851.7	4,918.7	4,867.7	18.2	15.2	161.82	225.6	37.2	731.0	704.9	26.04	28.069		
5,000.0	4,909.9	4,976.8	4,924.7	18.5	15.5	161.25	237.2	37.3	743.9	717.5	26.36	28.225		
5,035.0	4,943.9	5,010.7	4,957.9	18.7	15.7	160.92	244.0	37.3	751.5	724.9	26.54	28.316		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0											Offset Site Error:	0.0 usft		
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7459-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)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.0	5,006.9	5,073.7	5,019.6	19.0	15.9	160.34		256.6	37.4	765.6	738.7	26.88	28.482	
5,130.0	5,036.0	5,102.8	5,048.1	19.1	16.1	160.08		262.4	37.4	772.2	745.1	27.04	28.557	
5,200.0	5,104.0	5,170.6	5,114.6	19.5	16.4	159.48		275.9	37.5	787.5	760.1	27.41	28.732	
5,225.0	5,128.2	5,194.8	5,138.3	19.6	16.5	159.27		280.7	37.5	793.0	765.5	27.54	28.793	
5,300.0	5,201.0	5,267.5	5,209.6	19.9	16.8	158.67		295.2	37.6	809.6	781.6	27.94	28.975	
5,320.0	5,220.4	5,286.9	5,228.5	20.0	16.9	158.51		299.1	37.6	814.0	785.9	28.05	29.023	
5,400.0	5,298.0	5,364.4	5,304.5	20.4	17.3	157.90		314.5	37.7	831.8	803.3	28.47	29.213	
5,415.0	5,312.6	5,378.9	5,318.8	20.5	17.3	157.79		317.4	37.7	835.1	806.5	28.55	29.248	
5,500.0	5,395.1	5,461.3	5,399.5	20.9	17.7	157.17		333.9	37.8	854.1	825.1	29.01	29.443	
5,510.0	5,404.8	5,471.0	5,409.0	20.9	17.7	157.10		335.8	37.8	856.3	827.3	29.06	29.466	
5,600.0	5,492.1	5,558.2	5,494.4	21.4	18.1	156.48		353.2	37.9	876.6	847.0	29.55	29.667	
5,605.0	5,496.9	5,563.1	5,499.2	21.4	18.2	156.44		354.2	37.9	877.7	848.1	29.57	29.678	
5,700.0	5,589.1	5,655.1	5,589.4	21.8	18.6	155.82		372.5	38.0	899.1	869.1	30.09	29.884	
5,795.0	5,681.3	5,747.2	5,679.6	22.3	19.0	155.22		390.9	38.0	920.7	890.1	30.60	30.084	
5,800.0	5,686.1	5,752.0	5,684.3	22.3	19.0	155.19		391.8	38.1	921.8	891.2	30.63	30.094	
5,890.0	5,773.5	5,839.5	5,770.0	22.8	19.4	154.66		409.2	38.1	942.3	911.2	31.11	30.294	
5,900.0	5,783.2	5,849.3	5,779.7	22.8	19.5	154.60		411.1	38.1	944.6	913.5	31.16	30.315	
5,985.0	5,865.6	5,933.2	5,862.3	23.2	19.8	154.23		425.9	38.2	964.0	932.3	31.63	30.480	
6,000.0	5,880.2	5,948.0	5,876.9	23.3	19.9	154.18		428.2	38.2	967.4	935.7	31.71	30.506	
6,080.0	5,957.8	6,027.3	5,955.4	23.7	20.3	154.00		439.6	38.3	985.5	953.3	32.17	30.634	
6,100.0	5,977.2	6,047.2	5,975.1	23.8	20.4	153.98		442.1	38.3	990.0	957.7	32.28	30.664	
6,175.0	6,050.0	6,121.7	6,049.2	24.1	20.7	153.97		450.2	38.3	1,006.8	974.1	32.72	30.771	
6,200.0	6,074.3	6,146.6	6,073.9	24.2	20.8	153.99		452.5	38.3	1,012.4	979.5	32.86	30.806	
6,218.3	6,092.0	6,164.7	6,092.0	24.3	20.9	154.01		454.0	38.4	1,016.5	983.5	32.97	30.834	
6,270.0	6,142.3	6,216.2	6,143.4	24.6	21.1	154.20		457.7	38.4	1,027.6	994.3	33.26	30.890	
6,300.0	6,171.6	6,246.1	6,173.2	24.7	21.2	154.31		459.5	38.4	1,033.6	1,000.2	33.44	30.912	
6,365.0	6,235.2	6,311.1	6,238.2	25.0	21.4	154.59		462.2	38.4	1,045.7	1,011.9	33.81	30.927	
6,400.0	6,269.6	6,346.2	6,273.2	25.2	21.4	154.75		463.0	38.4	1,051.6	1,017.6	34.01	30.921	
6,460.0	6,328.7	6,406.2	6,333.2	25.5	21.6	155.04		463.5	38.4	1,060.9	1,026.6	34.34	30.893	
6,500.0	6,368.3	6,445.7	6,372.8	25.7	21.6	155.22		463.5	38.4	1,066.4	1,031.9	34.56	30.860	
6,555.0	6,422.7	6,500.2	6,427.2	25.9	21.6	155.45		463.5	38.4	1,073.2	1,038.4	34.84	30.803	
6,600.0	6,467.4	6,544.9	6,471.9	26.1	21.6	155.61		463.5	38.4	1,078.1	1,043.0	35.07	30.739	
6,650.0	6,517.2	6,594.6	6,521.7	26.3	21.6	155.76		463.5	38.4	1,082.8	1,047.5	35.32	30.660	
6,700.0	6,567.0	6,644.4	6,571.5	26.5	21.7	155.88		463.5	38.4	1,086.6	1,051.1	35.56	30.562	
6,745.0	6,611.9	6,689.3	6,616.4	26.7	21.7	155.97		463.5	38.4	1,089.4	1,053.7	35.75	30.472	
6,800.0	6,666.8	6,744.3	6,671.3	26.9	21.7	156.05		463.5	38.4	1,092.0	1,056.0	35.99	30.341	
6,840.0	6,706.8	6,784.2	6,711.3	27.0	21.7	156.09		463.5	38.4	1,093.3	1,057.1	36.14	30.255	
6,900.0	6,766.8	6,844.2	6,771.3	27.2	21.8	156.12		463.5	38.4	1,094.2	1,057.8	36.35	30.103	
6,918.2	6,785.0	6,862.5	6,789.5	27.2	21.8	88.59		463.5	38.4	1,094.2	1,057.9	36.38	30.077	
6,935.0	6,801.8	6,879.2	6,806.3	27.2	21.8	88.59		463.5	38.4	1,094.2	1,057.8	36.40	30.061	
7,000.0	6,866.8	6,944.2	6,871.3	27.2	21.8	88.59		463.5	38.4	1,094.2	1,057.8	36.47	30.000	
7,030.0	6,896.8	6,974.2	6,901.3	27.2	21.8	88.59		463.5	38.4	1,094.2	1,057.7	36.51	29.970	
7,100.0	6,966.8	7,044.2	6,971.3	27.2	21.9	88.59		463.5	38.4	1,094.2	1,057.6	36.60	29.900	
7,125.0	6,991.8	7,069.2	6,996.3	27.2	21.9	88.59		463.5	38.4	1,094.2	1,057.6	36.63	29.875	
7,200.0	7,066.8	7,144.2	7,071.3	27.3	21.9	88.59		463.5	38.4	1,094.2	1,057.5	36.72	29.801	
7,220.0	7,086.8	7,164.2	7,091.3	27.3	21.9	88.59		463.5	38.4	1,094.2	1,057.5	36.74	29.781	
7,300.0	7,166.8	7,244.2	7,171.3	27.3	22.0	88.59		463.5	38.4	1,094.2	1,057.4	36.84	29.702	
7,315.0	7,181.8	7,259.2	7,186.3	27.3	22.0	88.59		463.5	38.4	1,094.2	1,057.4	36.86	29.687	
7,400.0	7,266.8	7,344.2	7,271.3	27.3	22.0	88.59		463.5	38.4	1,094.2	1,057.3	36.96	29.604	
7,410.0	7,276.8	7,354.2	7,281.3	27.3	22.0	88.59		463.5	38.4	1,094.2	1,057.3	36.97	29.594	
7,500.0	7,366.8	7,444.2	7,371.3	27.4	22.0	88.59		463.5	38.4	1,094.2	1,057.2	37.07	29.522	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0											Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7459-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:	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)	Separation Factor
7,505.0	7,371.8	7,449.2	7,376.3	27.4	22.0	88.59	463.5	38.4	1,094.2	1,057.2	37.07	29.519
7,600.0	7,466.8	7,549.1	7,475.8	27.4	22.1	88.96	456.4	38.3	1,094.0	1,056.9	37.17	29.431
7,695.0	7,561.8	7,644.5	7,568.3	27.4	22.2	90.14	433.8	38.2	1,093.7	1,056.4	37.31	29.315
7,700.0	7,566.8	7,649.2	7,572.8	27.4	22.2	90.22	432.2	38.2	1,093.7	1,056.3	37.32	29.309
7,713.8	7,580.6	7,662.3	7,585.1	27.4	22.3	90.46	427.8	38.1	1,093.7	1,056.3	37.33	29.293
7,790.0	7,656.8	7,730.3	7,647.3	27.5	22.3	91.89	400.5	37.9	1,094.1	1,056.6	37.44	29.225
7,800.0	7,666.8	7,738.6	7,654.7	27.5	22.4	92.09	396.6	37.9	1,094.2	1,056.8	37.45	29.219
7,885.0	7,751.8	7,804.7	7,711.2	27.5	22.4	93.88	362.3	37.6	1,096.5	1,059.0	37.52	29.223
7,900.0	7,766.8	7,815.4	7,719.9	27.5	22.4	94.20	356.2	37.5	1,097.2	1,059.7	37.53	29.235
7,980.0	7,846.8	7,867.9	7,761.1	27.5	22.5	95.89	323.7	37.3	1,102.3	1,064.8	37.53	29.368
8,000.0	7,866.8	7,879.9	7,770.1	27.5	22.5	96.31	315.8	37.2	1,104.0	1,066.5	37.52	29.422
8,075.0	7,941.8	7,921.0	7,799.6	27.6	22.6	97.79	287.1	37.0	1,112.4	1,074.9	37.45	29.706
8,100.0	7,966.8	7,933.5	7,808.1	27.6	22.6	98.25	278.0	36.9	1,115.9	1,078.4	37.41	29.832
8,170.0	8,036.8	7,965.5	7,829.1	27.6	22.6	99.49	253.8	36.7	1,127.5	1,090.3	37.25	30.267
8,200.0	8,066.8	7,978.0	7,836.9	27.6	22.6	99.99	244.1	36.7	1,133.5	1,096.3	37.17	30.493
8,265.0	8,131.8	8,000.0	7,850.2	27.6	22.6	100.88	226.5	36.5	1,148.2	1,111.3	36.93	31.091
8,300.0	8,166.8	8,015.2	7,858.9	27.6	22.7	101.51	214.1	36.4	1,157.3	1,120.5	36.83	31.419
8,360.0	8,226.8	8,034.6	7,869.6	27.6	22.7	102.33	197.9	36.3	1,174.6	1,138.0	36.59	32.102
8,400.0	8,266.8	8,050.0	7,877.7	27.7	22.7	102.98	184.8	36.2	1,187.5	1,151.0	36.45	32.577
8,455.0	8,321.8	8,050.0	7,877.7	27.7	22.7	102.98	184.8	36.2	1,206.8	1,170.8	36.04	33.484
8,500.0	8,366.8	8,073.0	7,889.1	27.7	22.7	103.97	164.9	36.0	1,223.8	1,187.9	35.94	34.048
8,550.0	8,416.8	8,084.7	7,894.6	27.7	22.7	104.49	154.5	35.9	1,244.3	1,208.6	35.70	34.855
8,600.0	8,466.8	8,100.0	7,901.4	27.7	22.7	105.16	140.8	35.8	1,266.2	1,230.7	35.49	35.674
8,645.0	8,511.8	8,100.0	7,901.4	27.7	22.7	105.16	140.8	35.8	1,287.0	1,251.9	35.18	36.585
8,700.0	8,566.8	8,115.2	7,907.9	27.8	22.7	105.83	127.1	35.7	1,314.0	1,279.0	34.96	37.588

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #701H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	4.6	4.6	3.0	3.0	140.39	-147.8	122.3	191.8				
95.0	95.0	99.6	99.6	3.0	3.0	140.39	-147.8	122.3	191.8	185.8	6.04	31.772	
100.0	100.0	104.6	104.6	3.0	3.0	140.39	-147.8	122.3	191.8	185.8	6.04	31.738	
190.0	190.0	194.6	194.6	3.1	3.1	140.39	-147.8	122.3	191.8	185.6	6.26	30.627	
200.0	200.0	204.6	204.6	3.1	3.2	140.39	-147.8	122.3	191.8	185.5	6.30	30.473	
285.0	285.0	289.6	289.6	3.3	3.3	140.39	-147.8	122.3	191.8	185.3	6.50	29.513	
300.0	300.0	304.6	304.6	3.3	3.3	140.39	-147.8	122.3	191.8	185.3	6.54	29.333	
380.0	380.0	384.6	384.6	3.4	3.4	140.39	-147.8	122.3	191.8	185.1	6.73	28.507	
400.0	400.0	404.6	404.6	3.4	3.4	140.39	-147.8	122.3	191.8	185.1	6.78	28.295	
475.0	475.0	479.6	479.6	3.5	3.5	140.39	-147.8	122.3	191.8	184.9	6.95	27.583	
500.0	500.0	504.6	504.6	3.5	3.5	140.39	-147.8	122.3	191.8	184.8	7.02	27.343	
570.0	570.0	574.6	574.6	3.6	3.6	140.39	-147.8	122.3	191.8	184.7	7.18	26.730	
600.0	600.0	604.6	604.6	3.6	3.6	140.39	-147.8	122.3	191.8	184.6	7.25	26.467	
665.0	665.0	669.6	669.6	3.7	3.7	140.39	-147.8	122.3	191.8	184.4	7.40	25.939	
700.0	700.0	704.6	704.6	3.8	3.8	140.39	-147.8	122.3	191.8	184.4	7.48	25.656	
760.0	760.0	764.6	764.6	3.8	3.8	140.39	-147.8	122.3	191.8	184.2	7.61	25.203	
800.0	800.0	804.6	804.6	3.9	3.9	140.39	-147.8	122.3	191.8	184.1	7.70	24.903	
855.0	855.0	859.6	859.6	4.0	4.0	140.39	-147.8	122.3	191.8	184.0	7.83	24.515	
900.0	900.0	904.6	904.6	4.0	4.0	140.39	-147.8	122.3	191.8	183.9	7.93	24.201	
950.0	950.0	954.6	954.6	4.1	4.1	140.39	-147.8	122.3	191.8	183.8	8.04	23.871	
1,000.0	1,000.0	1,004.6	1,004.6	4.1	4.1	140.39	-147.8	122.3	191.8	183.7	8.15	23.545	
1,045.0	1,045.0	1,049.6	1,049.6	4.2	4.2	140.39	-147.8	122.3	191.8	183.6	8.25	23.266	
1,100.0	1,100.0	1,104.6	1,104.6	4.2	4.3	140.39	-147.8	122.3	191.8	183.5	8.37	22.929	
1,140.0	1,140.0	1,144.6	1,144.6	4.3	4.3	140.39	-147.8	122.3	191.8	183.4	8.45	22.696	
1,200.0	1,200.0	1,204.6	1,204.6	4.4	4.4	140.39	-147.8	122.3	191.8	183.3	8.58	22.351	
1,235.0	1,235.0	1,239.6	1,239.6	4.4	4.4	140.39	-147.8	122.3	191.8	183.2	8.66	22.158	
1,300.0	1,300.0	1,304.6	1,304.6	4.5	4.5	140.39	-147.8	122.3	191.8	183.0	8.80	21.806	
1,330.0	1,330.0	1,334.6	1,334.6	4.5	4.5	140.39	-147.8	122.3	191.8	183.0	8.86	21.650	
1,400.0	1,400.0	1,404.6	1,404.6	4.6	4.6	140.39	-147.8	122.3	191.8	182.8	9.01	21.291	
1,425.0	1,425.0	1,429.6	1,429.6	4.6	4.6	140.39	-147.8	122.3	191.8	182.8	9.06	21.168	
1,435.9	1,435.9	1,440.5	1,440.5	4.6	4.6	140.39	-147.8	122.3	191.8	182.8	9.09	21.114 CC	
1,500.0	1,500.0	1,504.6	1,504.6	4.7	4.7	140.39	-147.8	122.3	191.8	182.6	9.22	20.800 ES	
1,520.0	1,520.0	1,524.4	1,524.4	4.7	4.8	-152.11	-147.7	122.4	191.9	182.6	9.28	20.689	
1,600.0	1,600.0	1,603.7	1,603.7	4.8	4.9	-152.85	-146.8	123.9	193.6	184.1	9.48	20.415	
1,615.0	1,615.0	1,618.6	1,618.5	4.9	4.9	-153.09	-146.5	124.3	194.2	184.6	9.54	20.352	
1,700.0	1,699.8	1,702.3	1,702.2	5.0	5.1	-154.99	-143.9	128.3	199.1	189.2	9.87	20.163	
1,710.0	1,709.8	1,712.1	1,712.0	5.1	5.1	-155.27	-143.5	128.9	199.8	189.9	9.91	20.160 SF	
1,800.0	1,799.5	1,800.0	1,799.5	5.3	5.3	-158.23	-139.2	135.4	208.7	198.5	10.28	20.307	
1,805.0	1,804.4	1,804.7	1,804.1	5.3	5.4	-158.41	-138.9	135.8	209.3	199.0	10.30	20.324	
1,900.0	1,898.7	1,895.7	1,894.4	5.6	5.6	-162.19	-132.8	145.1	223.3	212.6	10.72	20.834	
1,995.0	1,992.5	1,984.8	1,982.5	5.9	5.9	-166.27	-125.3	156.5	242.2	231.0	11.17	21.678	
2,000.0	1,997.5	1,989.4	1,987.0	5.9	5.9	-166.48	-124.9	157.1	243.3	232.1	11.20	21.732	
2,090.0	2,085.8	2,071.6	2,067.8	6.2	6.2	-170.35	-116.6	169.8	266.4	254.8	11.66	22.842	
2,100.0	2,095.6	2,080.6	2,076.6	6.2	6.2	-170.77	-115.6	171.3	269.3	257.6	11.72	22.983	
2,185.0	2,178.5	2,155.8	2,150.1	6.6	6.5	-174.22	-106.7	184.7	296.2	284.0	12.19	24.303	
2,199.9	2,193.0	2,168.8	2,162.8	6.6	6.5	-174.80	-105.1	187.2	301.4	289.1	12.27	24.560	
2,280.0	2,270.7	2,239.9	2,231.8	6.9	6.8	-177.86	-95.7	201.5	330.3	317.6	12.69	26.035	
2,300.0	2,290.1	2,258.1	2,249.4	6.9	6.8	-178.57	-93.3	205.1	337.6	324.9	12.79	26.394	
2,375.0	2,362.9	2,326.3	2,315.6	7.2	7.0	-179.02	-84.3	218.9	365.7	352.5	13.21	27.690	
2,400.0	2,387.1	2,349.0	2,337.6	7.3	7.1	-178.29	-81.2	223.5	375.1	361.8	13.35	28.108	
2,470.0	2,455.0	2,412.6	2,399.3	7.5	7.3	-176.43	-72.8	236.3	401.8	388.1	13.75	29.224	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #701H - OWB - PWP1											Offset Site Error:	0.0 usft	
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft	
Reference	Offset	Semi Major Axis	Offset Wellbore Centre	Distance	Rule Assigned:								
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	2,484.1	2,439.8	2,425.8	7.6	7.4	175.71	-69.2	241.9	413.4	399.5	13.93	29.684	
2,565.0	2,547.2	2,498.9	2,483.1	7.8	7.6	174.27	-61.3	253.8	438.6	424.3	14.32	30.633	
2,600.0	2,581.2	2,530.7	2,513.9	8.0	7.7	173.56	-57.1	260.2	452.3	437.8	14.53	31.122	
2,660.0	2,639.4	2,585.2	2,566.8	8.2	7.9	172.43	-49.8	271.2	475.9	461.0	14.91	31.919	
2,700.0	2,678.2	2,621.6	2,602.1	8.3	8.1	171.74	-45.0	278.6	491.7	476.5	15.16	32.429	
2,755.0	2,731.6	2,671.5	2,650.6	8.5	8.3	170.86	-38.4	288.7	513.5	498.0	15.52	33.092	
2,800.0	2,775.2	2,712.4	2,690.3	8.7	8.4	170.19	-32.9	296.9	531.4	515.6	15.81	33.614	
2,850.0	2,823.8	2,757.9	2,734.3	8.9	8.6	169.49	-26.9	306.1	551.4	535.3	16.14	34.161	
2,900.0	2,872.3	2,803.3	2,778.4	9.1	8.8	168.85	-20.8	315.3	571.5	555.0	16.47	34.687	
2,945.0	2,915.9	2,844.2	2,818.1	9.3	8.9	168.30	-15.4	323.6	589.6	572.8	16.78	35.134	
3,000.0	2,969.3	2,894.1	2,866.6	9.5	9.1	167.68	-8.8	333.6	611.7	594.6	17.16	35.659	
3,040.0	3,008.1	2,930.5	2,901.9	9.7	9.3	167.26	-3.9	341.0	627.9	610.5	17.43	36.020	
3,100.0	3,066.3	2,985.0	2,954.8	9.9	9.5	166.66	3.3	352.0	652.2	634.3	17.85	36.540	
3,135.0	3,100.3	3,016.8	2,985.6	10.1	9.6	166.33	7.5	358.4	666.4	648.3	18.09	36.827	
3,200.0	3,163.4	3,075.9	3,042.9	10.4	9.9	165.75	15.4	370.4	692.8	674.2	18.55	37.340	
3,230.0	3,192.5	3,103.1	3,069.4	10.5	10.0	165.50	19.0	375.9	705.0	686.2	18.77	37.565	
3,300.0	3,260.4	3,166.7	3,131.1	10.8	10.2	164.95	27.5	388.7	733.5	714.3	19.27	38.067	
3,325.0	3,284.6	3,189.4	3,153.1	10.9	10.3	164.76	30.5	393.3	743.7	724.3	19.45	38.238	
3,400.0	3,357.4	3,257.6	3,219.2	11.2	10.6	164.23	39.5	407.1	774.4	754.4	19.99	38.730	
3,420.0	3,376.8	3,275.8	3,236.9	11.3	10.7	164.09	42.0	410.8	782.5	762.4	20.14	38.855	
3,500.0	3,454.4	3,348.5	3,307.4	11.6	11.0	163.58	51.6	425.4	815.3	794.6	20.73	39.335	
3,515.0	3,469.0	3,362.1	3,320.6	11.7	11.1	163.48	53.4	428.2	821.5	800.6	20.84	39.421	
3,600.0	3,551.5	3,439.3	3,395.6	12.1	11.4	162.99	63.7	443.8	856.3	834.9	21.47	39.889	
3,610.0	3,561.2	3,448.4	3,404.4	12.1	11.4	162.93	64.9	445.6	860.4	838.9	21.54	39.941	
3,700.0	3,648.5	3,530.2	3,483.7	12.5	11.8	162.45	75.8	462.2	897.4	875.2	22.22	40.396	
3,705.0	3,653.4	3,534.7	3,488.1	12.6	11.8	162.43	76.4	463.1	899.5	877.2	22.25	40.420	
3,800.0	3,745.5	3,621.0	3,571.9	13.0	12.2	161.96	87.9	480.5	938.6	915.6	22.97	40.862	
3,895.0	3,837.7	3,707.4	3,655.7	13.4	12.6	161.54	99.3	498.0	977.7	954.0	23.69	41.271	
3,900.0	3,842.6	3,711.9	3,660.1	13.4	12.6	161.52	99.9	498.9	979.8	956.0	23.73	41.291	
3,990.0	3,929.9	3,793.7	3,739.4	13.8	13.0	161.14	110.8	515.4	1,016.9	992.5	24.42	41.649	
4,000.0	3,939.6	3,802.8	3,748.2	13.9	13.0	161.11	112.0	517.2	1,021.0	996.5	24.49	41.687	
4,085.0	4,022.1	3,880.0	3,823.2	14.3	13.4	160.78	122.3	532.8	1,056.1	1,030.9	25.15	42.000	
4,100.0	4,036.6	3,893.6	3,836.4	14.3	13.4	160.73	124.1	535.6	1,062.3	1,037.0	25.26	42.053	
4,180.0	4,114.3	3,966.3	3,906.9	14.7	13.7	160.44	133.7	550.3	1,095.3	1,069.5	25.88	42.326	
4,200.0	4,133.7	3,984.5	3,924.6	14.8	13.8	160.37	136.2	554.0	1,103.6	1,077.6	26.03	42.392	
4,275.0	4,206.4	4,068.3	4,006.0	15.1	14.2	160.09	147.1	570.5	1,134.4	1,107.7	26.73	42.439	
4,300.0	4,230.7	4,101.9	4,038.8	15.3	14.4	160.00	151.1	576.7	1,144.3	1,117.3	27.01	42.369	
4,370.0	4,298.6	4,197.8	4,132.8	15.6	14.8	159.82	161.5	592.5	1,170.9	1,143.1	27.80	42.120	
4,400.0	4,327.7	4,239.6	4,173.9	15.7	15.0	159.77	165.5	598.6	1,181.8	1,153.6	28.13	42.011	
4,465.0	4,390.8	4,331.3	4,264.6	16.0	15.4	159.75	173.1	610.1	1,204.2	1,175.3	28.84	41.757	
4,500.0	4,424.7	4,381.5	4,314.4	16.2	15.6	159.77	176.6	615.4	1,215.6	1,186.4	29.21	41.616	
4,560.0	4,483.0	4,468.5	4,400.9	16.5	16.0	159.87	181.5	622.9	1,234.0	1,204.2	29.82	41.377	
4,600.0	4,521.8	4,527.2	4,459.5	16.6	16.2	159.97	184.0	626.6	1,245.6	1,215.3	30.22	41.220	
4,655.0	4,575.1	4,608.7	4,540.9	16.9	16.5	160.17	186.3	630.2	1,260.4	1,229.6	30.74	41.007	
4,700.0	4,618.8	4,676.1	4,608.2	17.1	16.7	160.38	187.3	631.7	1,271.6	1,240.5	31.11	40.875	
4,750.0	4,667.3	4,739.8	4,671.9	17.4	16.8	160.61	187.5	632.0	1,283.2	1,251.8	31.42	40.846	
4,800.0	4,715.8	4,788.3	4,720.4	17.6	16.8	160.78	187.5	632.0	1,294.7	1,263.0	31.65	40.901	
4,845.0	4,759.5	4,832.0	4,764.1	17.8	16.9	160.94	187.5	632.0	1,305.0	1,273.1	31.87	40.944	
4,900.0	4,812.9	4,885.4	4,817.5	18.1	16.9	161.13	187.5	632.0	1,317.6	1,285.4	32.14	40.993	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8429-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	4.5	4.5	3.0	3.0	148.10	-148.3	92.3	174.7				
95.0	95.0	99.5	99.5	3.0	3.0	148.10	-148.3	92.3	174.7	168.6	6.04	28.929	
100.0	100.0	104.5	104.5	3.0	3.0	148.10	-148.3	92.3	174.7	168.6	6.04	28.899	
190.0	190.0	194.5	194.5	3.1	3.1	148.10	-148.3	92.3	174.7	168.4	6.26	27.884	
200.0	200.0	204.5	204.5	3.1	3.2	148.10	-148.3	92.3	174.7	168.4	6.30	27.743	
285.0	285.0	289.5	289.5	3.3	3.3	148.10	-148.3	92.3	174.7	168.2	6.50	26.863	
300.0	300.0	304.5	304.5	3.3	3.3	148.10	-148.3	92.3	174.7	168.1	6.54	26.699	
380.0	380.0	384.5	384.5	3.4	3.4	148.10	-148.3	92.3	174.7	167.9	6.73	25.939	
400.0	400.0	404.5	404.5	3.4	3.4	148.10	-148.3	92.3	174.7	167.9	6.79	25.744	
475.0	475.0	479.5	479.5	3.5	3.5	148.10	-148.3	92.3	174.7	167.7	6.96	25.088	
500.0	500.0	504.5	504.5	3.5	3.5	148.10	-148.3	92.3	174.7	167.7	7.02	24.867	
570.0	570.0	574.5	574.5	3.6	3.6	148.10	-148.3	92.3	174.7	167.5	7.19	24.301	
600.0	600.0	604.5	604.5	3.6	3.6	148.10	-148.3	92.3	174.7	167.4	7.26	24.058	
665.0	665.0	669.5	669.5	3.7	3.7	148.10	-148.3	92.3	174.7	167.3	7.41	23.569	
700.0	700.0	704.5	704.5	3.8	3.8	148.10	-148.3	92.3	174.7	167.2	7.49	23.308	
760.0	760.0	764.5	764.5	3.8	3.8	148.10	-148.3	92.3	174.7	167.0	7.63	22.887	
800.0	800.0	804.5	804.5	3.9	3.9	148.10	-148.3	92.3	174.7	167.0	7.73	22.610	
855.0	855.0	859.5	859.5	4.0	4.0	148.10	-148.3	92.3	174.7	166.8	7.85	22.250	
900.0	900.0	904.5	904.5	4.0	4.0	148.10	-148.3	92.3	174.7	166.7	7.95	21.959	
950.0	950.0	954.5	954.5	4.1	4.1	148.10	-148.3	92.3	174.7	166.6	8.07	21.652	
1,000.0	1,000.0	1,004.5	1,004.5	4.1	4.1	148.10	-148.3	92.3	174.7	166.5	8.18	21.349	
1,045.0	1,045.0	1,049.5	1,049.5	4.2	4.2	148.10	-148.3	92.3	174.7	166.4	8.28	21.090	
1,100.0	1,100.0	1,104.5	1,104.5	4.2	4.3	148.10	-148.3	92.3	174.7	166.3	8.41	20.777	
1,140.0	1,140.0	1,144.5	1,144.5	4.3	4.3	148.10	-148.3	92.3	174.7	166.2	8.50	20.560	
1,200.0	1,200.0	1,204.5	1,204.5	4.4	4.4	148.10	-148.3	92.3	174.7	166.0	8.63	20.239	
1,235.0	1,235.0	1,239.5	1,239.5	4.4	4.4	148.10	-148.3	92.3	174.7	166.0	8.71	20.060	
1,300.0	1,300.0	1,304.5	1,304.5	4.5	4.5	148.10	-148.3	92.3	174.7	165.8	8.85	19.732	
1,330.0	1,330.0	1,334.5	1,334.5	4.5	4.5	148.10	-148.3	92.3	174.7	165.8	8.92	19.586	
1,400.0	1,400.0	1,404.5	1,404.5	4.6	4.6	148.10	-148.3	92.3	174.7	165.6	9.07	19.252	
1,425.0	1,425.0	1,429.5	1,429.5	4.6	4.6	148.10	-148.3	92.3	174.7	165.5	9.13	19.137	
1,500.0	1,500.0	1,504.7	1,504.7	4.7	4.7	148.10	-148.3	92.3	174.7	165.4	9.29	18.793	
1,515.2	1,515.2	1,520.5	1,520.5	4.7	4.8	-144.39	-148.2	92.3	174.7	165.3	9.34	18.702 CC	
1,520.0	1,520.0	1,525.4	1,525.4	4.7	4.8	-144.41	-148.2	92.3	174.7	165.3	9.35	18.675 ES	
1,600.0	1,600.0	1,608.4	1,608.4	4.8	4.9	-145.24	-146.4	93.0	174.9	165.3	9.59	18.241	
1,615.0	1,615.0	1,624.0	1,623.9	4.9	5.0	-145.52	-145.8	93.3	175.0	165.4	9.65	18.136	
1,700.0	1,699.8	1,711.8	1,711.6	5.0	5.2	-147.75	-141.0	95.1	176.1	166.1	10.00	17.614	
1,710.0	1,709.8	1,722.1	1,721.9	5.1	5.2	-148.08	-140.3	95.4	176.3	166.2	10.04	17.561	
1,800.0	1,799.5	1,814.4	1,813.7	5.3	5.5	-151.75	-132.2	98.4	178.7	168.4	10.39	17.209	
1,805.0	1,804.4	1,819.5	1,818.8	5.3	5.5	-151.99	-131.7	98.6	178.9	168.5	10.40	17.202	
1,900.0	1,898.7	1,914.0	1,912.7	5.6	5.6	-156.71	-121.1	102.7	184.2	173.5	10.72	17.192 SF	
1,995.0	1,992.5	2,007.2	2,005.2	5.9	5.8	-161.41	-110.4	106.7	193.6	182.5	11.13	17.405	
2,000.0	1,997.5	2,012.1	2,010.0	5.9	5.9	-161.65	-109.9	107.0	194.2	183.1	11.15	17.426	
2,090.0	2,085.8	2,099.9	2,097.2	6.2	6.1	-165.85	-99.9	110.8	207.3	195.7	11.56	17.934	
2,100.0	2,095.6	2,109.6	2,106.8	6.2	6.1	-166.29	-98.8	111.2	209.0	197.4	11.61	18.007	
2,185.0	2,178.5	2,191.9	2,188.5	6.6	6.3	-169.86	-89.4	114.8	225.2	213.1	12.02	18.739	
2,199.9	2,193.0	2,206.3	2,202.8	6.6	6.4	-170.44	-87.8	115.4	228.3	216.2	12.09	18.889	
2,280.0	2,270.7	2,283.5	2,279.4	6.9	6.6	-173.38	-79.0	118.7	246.0	233.5	12.43	19.780	
2,300.0	2,290.1	2,302.8	2,298.5	6.9	6.6	-174.05	-76.8	119.6	250.4	237.9	12.52	20.001	
2,375.0	2,362.9	2,375.1	2,370.3	7.2	6.9	-176.37	-68.6	122.7	267.6	254.7	12.86	20.805	
2,400.0	2,387.1	2,399.2	2,394.2	7.3	6.9	-177.08	-65.8	123.8	273.3	260.4	12.97	21.069	
2,470.0	2,455.0	2,466.6	2,461.2	7.5	7.1	-178.92	-58.1	126.7	289.8	276.5	13.30	21.782	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1												Offset Site Error:	0.0 usft	
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8429-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft	
Rule Assigned:												Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
2,500.0	2,484.1	2,495.6	2,489.9	7.6	7.2	-179.64		-54.8	127.9	296.9	283.4	13.44	22.082	
2,565.0	2,547.2	2,558.2	2,552.1	7.8	7.4	178.90		-47.7	130.7	312.4	298.7	13.76	22.706	
2,600.0	2,581.2	2,591.9	2,585.5	8.0	7.6	178.17		-43.9	132.1	320.9	306.9	13.93	23.034	
2,660.0	2,639.4	2,649.8	2,642.9	8.2	7.7	177.01		-37.3	134.6	335.5	321.2	14.23	23.574	
2,700.0	2,678.2	2,688.3	2,681.2	8.3	7.9	176.28		-32.9	136.3	345.3	330.8	14.43	23.924	
2,755.0	2,731.6	2,741.3	2,733.8	8.5	8.0	175.36		-26.9	138.6	358.8	344.1	14.71	24.387	
2,800.0	2,775.2	2,784.7	2,776.9	8.7	8.2	174.65		-21.9	140.5	370.0	355.0	14.95	24.755	
2,850.0	2,823.8	2,832.9	2,824.7	8.9	8.4	173.91		-16.4	142.6	382.4	367.2	15.21	25.148	
2,900.0	2,872.3	2,881.1	2,872.6	9.1	8.5	173.21		-11.0	144.7	394.9	379.5	15.47	25.529	
2,945.0	2,915.9	2,924.5	2,915.6	9.3	8.7	172.63		-6.0	146.6	406.2	390.5	15.71	25.858	
3,000.0	2,969.3	2,977.5	2,968.2	9.5	8.9	171.95		0.0	148.9	420.1	404.1	16.00	26.249	
3,040.0	3,008.1	3,016.1	3,006.5	9.7	9.0	171.49		4.4	150.5	430.2	414.0	16.22	26.522	
3,100.0	3,066.3	3,073.9	3,063.9	9.9	9.2	170.83		11.0	153.1	445.4	428.9	16.55	26.919	
3,135.0	3,100.3	3,107.6	3,097.4	10.1	9.3	170.47		14.8	154.5	454.3	437.6	16.74	27.141	
3,200.0	3,163.4	3,170.3	3,159.6	10.4	9.6	169.83		22.0	157.2	470.9	453.8	17.10	27.542	
3,230.0	3,192.5	3,199.2	3,188.3	10.5	9.7	169.55		25.3	158.5	478.6	461.3	17.26	27.719	
3,300.0	3,260.4	3,266.7	3,255.2	10.8	9.9	168.93		32.9	161.4	496.5	478.8	17.65	28.122	
3,325.0	3,284.6	3,290.8	3,279.2	10.9	10.0	168.72		35.7	162.5	502.9	485.1	17.80	28.260	
3,400.0	3,357.4	3,363.1	3,350.9	11.2	10.3	168.12		43.9	165.6	522.2	504.0	18.22	28.663	
3,420.0	3,376.8	3,382.3	3,370.0	11.3	10.4	167.97		46.1	166.5	527.3	509.0	18.33	28.766	
3,500.0	3,454.4	3,459.4	3,446.6	11.6	10.6	167.38		54.9	169.8	548.0	529.2	18.79	29.167	
3,515.0	3,469.0	3,473.9	3,460.9	11.7	10.7	167.28		56.5	170.4	551.9	533.0	18.87	29.239	
3,600.0	3,551.5	3,555.8	3,542.3	12.1	11.0	166.72		65.9	174.0	573.8	554.5	19.36	29.638	
3,610.0	3,561.2	3,565.5	3,551.8	12.1	11.0	166.65		67.0	174.4	576.4	557.0	19.42	29.683	
3,700.0	3,648.5	3,652.2	3,637.9	12.5	11.4	166.10		76.8	178.2	599.8	579.8	19.94	30.078	
3,705.0	3,653.4	3,657.0	3,642.7	12.6	11.4	166.07		77.4	178.4	601.1	581.1	19.97	30.099	
3,800.0	3,745.5	3,748.6	3,733.6	13.0	11.7	165.54		87.8	182.4	625.8	605.2	20.52	30.490	
3,895.0	3,837.7	3,840.2	3,824.5	13.4	12.1	165.05		98.2	186.3	650.5	629.4	21.08	30.857	
3,900.0	3,842.6	3,845.0	3,829.3	13.4	12.1	165.03		98.8	186.5	651.8	630.7	21.11	30.876	
3,990.0	3,929.9	3,931.8	3,915.4	13.8	12.5	164.60		108.7	190.3	675.3	653.6	21.64	31.202	
4,000.0	3,939.6	3,941.4	3,924.9	13.9	12.5	164.55		109.8	190.7	677.9	656.2	21.70	31.238	
4,085.0	4,022.1	4,023.3	4,006.3	14.3	12.8	164.17		119.1	194.3	700.1	677.9	22.21	31.528	
4,100.0	4,036.6	4,037.8	4,020.6	14.3	12.9	164.11		120.7	194.9	704.0	681.7	22.30	31.578	
4,180.0	4,114.3	4,114.9	4,097.1	14.7	13.2	163.78		129.5	198.3	725.0	702.2	22.77	31.835	
4,200.0	4,133.7	4,134.2	4,116.3	14.8	13.2	163.70		131.7	199.1	730.2	707.3	22.89	31.899	
4,275.0	4,206.4	4,206.7	4,188.3	15.1	13.5	163.41		140.0	202.3	749.8	726.5	23.34	32.128	
4,300.0	4,230.7	4,231.7	4,213.1	15.3	13.6	163.32		142.7	203.3	756.4	732.9	23.49	32.196	
4,370.0	4,298.6	4,301.6	4,282.6	15.6	13.9	163.12		149.9	206.0	774.5	750.6	23.92	32.373	
4,400.0	4,327.7	4,331.6	4,312.4	15.7	14.0	163.06		152.8	207.1	782.2	758.1	24.11	32.447	
4,465.0	4,390.8	4,396.8	4,377.3	16.0	14.3	162.96		158.4	209.3	798.8	774.3	24.51	32.595	
4,500.0	4,424.7	4,431.9	4,412.3	16.2	14.4	162.94		161.2	210.3	807.7	783.0	24.72	32.673	
4,560.0	4,483.0	4,492.2	4,472.4	16.5	14.6	162.93		165.5	212.0	822.7	797.6	25.09	32.796	
4,600.0	4,521.8	4,532.4	4,512.6	16.6	14.7	162.94		168.0	212.9	832.7	807.3	25.33	32.876	
4,655.0	4,575.1	4,587.8	4,567.9	16.9	14.9	163.00		171.1	214.1	846.2	820.6	25.66	32.980	
4,700.0	4,618.8	4,633.2	4,613.2	17.1	15.1	163.07		173.2	214.9	857.2	831.3	25.93	33.062	
4,750.0	4,667.3	4,683.6	4,663.5	17.4	15.2	163.17		175.1	215.7	869.4	843.1	26.23	33.148	
4,800.0	4,715.8	4,734.1	4,714.0	17.6	15.4	163.30		176.7	216.3	881.4	854.9	26.52	33.232	
4,845.0	4,759.5	4,779.5	4,759.4	17.8	15.5	163.44		177.8	216.7	892.1	865.3	26.79	33.304	
4,900.0	4,812.9	4,835.0	4,814.9	18.1	15.6	163.63		178.6	217.0	905.1	878.0	27.10	33.395	
4,940.0	4,851.7	4,875.4	4,855.3	18.2	15.7	163.79		178.9	217.1	914.5	887.2	27.33	33.460	
5,000.0	4,909.9	4,934.5	4,914.4	18.5	15.8	164.04		178.9	217.1	928.5	900.8	27.66	33.567	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1											Offset Site Error:	0.0 usft	
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8429-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft	
Reference	Offset	Semi Major Axis	Offset	Reference	Offset	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation	Warning
Measured	Vertical	Measured	Vertical	Reference	Offset	Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor	
Depth	Depth	Depth	Depth	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
5,035.0	4,943.9	4,968.5	4,948.4	18.7	15.8	164.18	178.9	217.1	936.6	908.8	27.85	33.631	
5,100.0	5,006.9	5,031.5	5,011.4	19.0	15.8	164.44	178.9	217.1	951.8	923.6	28.21	33.746	
5,130.0	5,036.0	5,060.6	5,040.5	19.1	15.8	164.55	178.9	217.1	958.8	930.4	28.37	33.798	
5,200.0	5,104.0	5,128.6	5,108.5	19.5	15.9	164.82	178.9	217.1	975.2	946.4	28.75	33.917	
5,225.0	5,128.2	5,152.8	5,132.7	19.6	15.9	164.91	178.9	217.1	981.0	952.1	28.89	33.958	
5,300.0	5,201.0	5,225.6	5,205.5	19.9	15.9	165.18	178.9	217.1	998.6	969.3	29.30	34.079	
5,320.0	5,220.4	5,245.0	5,224.9	20.0	15.9	165.25	178.9	217.1	1,003.3	973.9	29.41	34.110	
5,400.0	5,298.0	5,322.6	5,302.5	20.4	16.0	165.53	178.9	217.1	1,022.0	992.2	29.85	34.234	
5,415.0	5,312.6	5,337.2	5,317.1	20.5	16.0	165.58	178.9	217.1	1,025.6	995.6	29.94	34.256	
5,500.0	5,395.1	5,419.7	5,399.6	20.9	16.1	165.86	178.9	217.1	1,045.5	1,015.1	30.41	34.382	
5,510.0	5,404.8	5,429.4	5,409.3	20.9	16.1	165.89	178.9	217.1	1,047.9	1,017.4	30.46	34.396	
5,600.0	5,492.1	5,516.7	5,496.6	21.4	16.1	166.17	178.9	217.1	1,069.0	1,038.1	30.97	34.523	
5,605.0	5,496.9	5,521.5	5,501.4	21.4	16.1	166.19	178.9	217.1	1,070.2	1,039.2	30.99	34.530	
5,700.0	5,589.1	5,613.7	5,593.6	21.8	16.2	166.48	178.9	217.1	1,092.6	1,061.1	31.52	34.659	
5,795.0	5,681.3	5,705.9	5,685.8	22.3	16.2	166.75	178.9	217.1	1,115.0	1,082.9	32.06	34.782	
5,800.0	5,686.1	5,710.7	5,690.6	22.3	16.2	166.77	178.9	217.1	1,116.2	1,084.1	32.08	34.789	
5,890.0	5,773.5	5,798.1	5,778.0	22.8	16.3	167.02	178.9	217.1	1,137.4	1,104.8	32.59	34.901	
5,900.0	5,783.2	5,807.8	5,787.7	22.8	16.3	167.05	178.9	217.1	1,139.7	1,107.1	32.65	34.913	
5,985.0	5,865.6	5,890.3	5,870.1	23.2	16.3	167.27	178.9	217.1	1,159.8	1,126.7	33.12	35.015	
6,000.0	5,880.2	5,904.8	5,884.7	23.3	16.3	167.31	178.9	217.1	1,163.4	1,130.2	33.21	35.033	
6,080.0	5,957.8	5,982.4	5,962.3	23.7	16.4	167.52	178.9	217.1	1,182.3	1,148.6	33.66	35.126	
6,100.0	5,977.2	6,001.8	5,981.7	23.8	16.4	167.57	178.9	217.1	1,187.0	1,153.2	33.77	35.148	
6,175.0	6,050.0	6,074.6	6,054.5	24.1	16.4	167.75	178.9	217.1	1,204.8	1,170.6	34.20	35.232	
6,200.0	6,074.3	6,098.9	6,078.8	24.2	16.5	167.81	178.9	217.1	1,210.7	1,176.3	34.34	35.259	
6,218.3	6,092.0	6,116.6	6,096.5	24.3	16.5	167.86	178.9	217.1	1,215.0	1,180.6	34.44	35.283	
6,270.0	6,142.3	6,166.9	6,146.8	24.6	16.5	168.03	178.9	217.1	1,226.8	1,192.1	34.73	35.327	
6,300.0	6,171.6	6,196.2	6,176.1	24.7	16.5	168.12	178.9	217.1	1,233.3	1,198.4	34.90	35.341	
6,365.0	6,235.2	6,259.8	6,239.7	25.0	16.6	168.30	178.9	217.1	1,246.2	1,210.9	35.26	35.340	
6,400.0	6,269.6	6,294.2	6,274.1	25.2	16.6	168.38	178.9	217.1	1,252.6	1,217.1	35.46	35.322	
6,460.0	6,328.7	6,353.3	6,333.2	25.5	16.6	168.52	178.9	217.1	1,262.5	1,226.7	35.79	35.277	
6,500.0	6,368.3	6,392.9	6,372.8	25.7	16.6	168.59	178.9	217.1	1,268.5	1,232.5	36.01	35.229	
6,555.0	6,422.7	6,447.4	6,427.2	25.9	16.7	168.69	178.9	217.1	1,275.8	1,239.6	36.30	35.151	
6,600.0	6,467.4	6,492.0	6,471.9	26.1	16.7	168.76	178.9	217.1	1,281.1	1,244.6	36.53	35.067	
6,650.0	6,517.2	6,541.8	6,521.7	26.3	16.7	168.82	178.9	217.1	1,286.1	1,249.3	36.78	34.968	
6,700.0	6,567.0	6,591.6	6,571.5	26.5	16.8	168.87	178.9	217.1	1,290.3	1,253.2	37.03	34.847	
6,745.0	6,611.9	6,636.5	6,616.4	26.7	16.8	168.91	178.9	217.1	1,293.3	1,256.0	37.23	34.736	
6,800.0	6,666.8	6,691.4	6,671.3	26.9	16.8	168.95	178.9	217.1	1,296.0	1,258.5	37.48	34.578	
6,840.0	6,706.8	6,731.4	6,711.3	27.0	16.9	168.96	178.9	217.1	1,297.4	1,259.7	37.63	34.476	
6,900.0	6,766.8	6,791.4	6,771.3	27.2	16.9	168.98	178.9	217.1	1,298.4	1,260.5	37.86	34.296	
6,918.2	6,785.0	6,809.6	6,789.5	27.2	16.9	101.44	178.9	217.1	1,298.4	1,260.5	37.89	34.266	
6,935.0	6,801.8	6,826.4	6,806.3	27.2	16.9	101.44	178.9	217.1	1,298.4	1,260.5	37.91	34.248	
7,000.0	6,866.8	6,891.4	6,871.3	27.2	17.0	101.44	178.9	217.1	1,298.4	1,260.4	37.99	34.179	
7,030.0	6,896.8	6,921.4	6,901.3	27.2	17.0	101.44	178.9	217.1	1,298.4	1,260.4	38.03	34.146	
7,100.0	6,966.8	6,991.4	6,971.3	27.2	17.0	101.44	178.9	217.1	1,298.4	1,260.3	38.11	34.068	
7,125.0	6,991.8	7,016.4	6,996.3	27.2	17.0	101.44	178.9	217.1	1,298.4	1,260.3	38.14	34.040	
7,200.0	7,066.8	7,091.4	7,071.3	27.3	17.1	101.44	178.9	217.1	1,298.4	1,260.2	38.24	33.957	
7,220.0	7,086.8	7,111.4	7,091.3	27.3	17.1	101.44	178.9	217.1	1,298.4	1,260.1	38.26	33.935	
7,300.0	7,166.8	7,191.4	7,171.3	27.3	17.1	101.44	178.9	217.1	1,298.4	1,260.0	38.36	33.847	
7,315.0	7,181.8	7,206.4	7,186.3	27.3	17.2	101.44	178.9	217.1	1,298.4	1,260.0	38.38	33.831	
7,400.0	7,266.8	7,291.4	7,271.3	27.3	17.2	101.44	178.9	217.1	1,298.4	1,259.9	38.49	33.738	
7,410.0	7,276.8	7,301.4	7,281.3	27.3	17.2	101.44	178.9	217.1	1,298.4	1,259.9	38.50	33.727	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design:	FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program:	0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8429-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Vertical	Offset	Semi Major Axis		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)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
7,500.0	7,366.8	7,391.4	7,371.3	27.4	17.3	101.44	178.9	217.1	1,298.4	1,259.8	38.61	33.629	
7,505.0	7,371.8	7,396.4	7,376.3	27.4	17.3	101.44	178.9	217.1	1,298.4	1,259.8	38.62	33.623	
7,600.0	7,466.8	7,491.4	7,471.3	27.4	17.3	101.44	178.9	217.1	1,298.4	1,259.7	38.73	33.521	
7,695.0	7,561.8	7,586.4	7,566.3	27.4	17.4	101.44	178.9	217.1	1,298.4	1,259.6	38.85	33.419	
7,700.0	7,566.8	7,591.4	7,571.3	27.4	17.4	101.44	178.9	217.1	1,298.4	1,259.6	38.86	33.413	
7,790.0	7,656.8	7,681.4	7,661.3	27.5	17.5	101.44	178.9	217.1	1,298.4	1,259.4	38.97	33.317	
7,800.0	7,666.8	7,691.4	7,671.3	27.5	17.5	101.44	178.9	217.1	1,298.4	1,259.4	38.98	33.306	
7,885.0	7,751.8	7,776.4	7,756.3	27.5	17.5	101.44	178.9	217.1	1,298.4	1,259.3	39.09	33.216	
7,900.0	7,766.8	7,791.4	7,771.3	27.5	17.5	101.44	178.9	217.1	1,298.4	1,259.3	39.11	33.200	
7,980.0	7,846.8	7,871.4	7,851.3	27.5	17.6	101.44	178.9	217.1	1,298.4	1,259.2	39.21	33.115	
8,000.0	7,866.8	7,891.4	7,871.3	27.5	17.6	101.44	178.9	217.1	1,298.4	1,259.2	39.23	33.094	
8,075.0	7,941.8	7,966.4	7,946.3	27.6	17.6	101.44	178.9	217.1	1,298.4	1,259.1	39.33	33.016	
8,100.0	7,966.8	7,991.4	7,971.3	27.6	17.7	101.44	178.9	217.1	1,298.4	1,259.1	39.36	32.989	
8,170.0	8,036.8	8,061.4	8,041.3	27.6	17.7	101.44	178.9	217.1	1,298.4	1,259.0	39.45	32.916	
8,200.0	8,066.8	8,091.4	8,071.3	27.6	17.7	101.44	178.9	217.1	1,298.4	1,258.9	39.48	32.885	
8,265.0	8,131.8	8,156.4	8,136.3	27.6	17.8	101.44	178.9	217.1	1,298.4	1,258.8	39.56	32.817	
8,300.0	8,166.8	8,191.4	8,171.3	27.6	17.8	101.44	178.9	217.1	1,298.4	1,258.8	39.61	32.781	
8,360.0	8,226.8	8,251.4	8,231.3	27.6	17.8	101.44	178.9	217.1	1,298.4	1,258.7	39.68	32.719	
8,400.0	8,266.8	8,291.4	8,271.3	27.7	17.9	101.44	178.9	217.1	1,298.4	1,258.7	39.73	32.678	
8,455.0	8,321.8	8,346.4	8,326.3	27.7	17.9	101.44	178.9	217.1	1,298.4	1,258.6	39.80	32.621	
8,500.0	8,366.8	8,391.4	8,371.3	27.7	17.9	101.44	178.9	217.1	1,298.4	1,258.6	39.86	32.575	
8,502.9	8,369.7	8,394.3	8,374.2	27.7	17.9	101.44	178.9	217.1	1,298.4	1,258.5	39.86	32.572	
8,550.0	8,416.8	8,437.7	8,417.6	27.7	17.9	101.45	178.8	217.1	1,298.4	1,258.5	39.89	32.553	
8,600.0	8,466.8	8,472.5	8,452.4	27.7	18.0	101.51	177.3	217.1	1,298.9	1,259.0	39.86	32.585	
8,645.0	8,511.8	8,500.0	8,479.7	27.7	18.0	101.63	174.5	217.1	1,299.8	1,259.9	39.82	32.640	
8,700.0	8,566.8	8,541.1	8,520.2	27.8	18.1	101.91	168.0	217.0	1,301.5	1,261.7	39.80	32.701	
8,740.0	8,606.8	8,567.7	8,546.2	27.8	18.1	102.16	162.2	217.0	1,303.3	1,263.5	39.77	32.769	
8,800.0	8,666.8	8,600.0	8,577.4	27.8	18.1	102.53	153.6	216.9	1,306.8	1,267.1	39.69	32.923	
8,835.0	8,701.8	8,628.4	8,604.3	27.8	18.2	102.92	144.6	216.8	1,309.3	1,269.7	39.69	32.992	
8,900.0	8,766.8	8,667.5	8,640.6	27.8	18.2	103.54	130.0	216.7	1,315.1	1,275.5	39.61	33.200	
8,930.0	8,796.8	8,684.8	8,656.3	27.8	18.3	103.85	122.8	216.6	1,318.2	1,278.7	39.57	33.313	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8432-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	4.6	4.6	3.0	3.0	157.30	-148.9	62.3	161.4				
95.0	95.0	99.6	99.6	3.0	3.0	157.30	-148.9	62.3	161.4	155.4	6.04	26.731	
100.0	100.0	104.6	104.6	3.0	3.0	157.30	-148.9	62.3	161.4	155.4	6.04	26.703	
190.0	190.0	194.6	194.6	3.1	3.1	157.30	-148.9	62.3	161.4	155.1	6.27	25.762	
200.0	200.0	204.6	204.6	3.1	3.2	157.30	-148.9	62.3	161.4	155.1	6.30	25.632	
285.0	285.0	289.6	289.6	3.3	3.3	157.30	-148.9	62.3	161.4	154.9	6.51	24.813	
300.0	300.0	304.6	304.6	3.3	3.3	157.30	-148.9	62.3	161.4	154.9	6.55	24.660	
380.0	380.0	384.6	384.6	3.4	3.4	157.30	-148.9	62.3	161.4	154.7	6.74	23.951	
400.0	400.0	404.6	404.6	3.4	3.4	157.30	-148.9	62.3	161.4	154.6	6.79	23.769	
475.0	475.0	479.6	479.6	3.5	3.5	157.30	-148.9	62.3	161.4	154.4	6.97	23.155	
500.0	500.0	504.6	504.6	3.5	3.5	157.30	-148.9	62.3	161.4	154.4	7.03	22.949	
570.0	570.0	574.6	574.6	3.6	3.6	157.30	-148.9	62.3	161.4	154.2	7.20	22.418	
600.0	600.0	604.6	604.6	3.6	3.6	157.30	-148.9	62.3	161.4	154.1	7.27	22.190	
665.0	665.0	669.6	669.6	3.7	3.7	157.30	-148.9	62.3	161.4	154.0	7.43	21.732	
700.0	700.0	704.6	704.6	3.8	3.8	157.30	-148.9	62.3	161.4	153.9	7.51	21.486	
760.0	760.0	764.6	764.6	3.8	3.8	157.30	-148.9	62.3	161.4	153.8	7.65	21.091	
800.0	800.0	804.6	804.6	3.9	3.9	157.30	-148.9	62.3	161.4	153.7	7.75	20.830	
855.0	855.0	859.6	859.6	4.0	4.0	157.30	-148.9	62.3	161.4	153.5	7.88	20.492	
900.0	900.0	904.6	904.6	4.0	4.0	157.30	-148.9	62.3	161.4	153.4	7.98	20.218	
950.0	950.0	954.6	954.6	4.1	4.1	157.30	-148.9	62.3	161.4	153.3	8.10	19.929	
1,000.0	1,000.0	1,004.6	1,004.6	4.1	4.1	157.30	-148.9	62.3	161.4	153.2	8.22	19.644	
1,045.0	1,045.0	1,049.6	1,049.6	4.2	4.2	157.30	-148.9	62.3	161.4	153.1	8.32	19.399	
1,100.0	1,100.0	1,104.6	1,104.6	4.2	4.3	157.30	-148.9	62.3	161.4	153.0	8.45	19.104	
1,140.0	1,140.0	1,144.6	1,144.6	4.3	4.3	157.30	-148.9	62.3	161.4	152.9	8.54	18.899	
1,200.0	1,200.0	1,204.6	1,204.6	4.4	4.4	157.30	-148.9	62.3	161.4	152.7	8.68	18.597	
1,235.0	1,235.0	1,239.6	1,239.6	4.4	4.4	157.30	-148.9	62.3	161.4	152.6	8.76	18.427	
1,300.0	1,300.0	1,304.6	1,304.6	4.5	4.5	157.30	-148.9	62.3	161.4	152.5	8.91	18.118	
1,330.0	1,330.0	1,334.6	1,334.6	4.5	4.5	157.30	-148.9	62.3	161.4	152.4	8.98	17.980	
1,400.0	1,400.0	1,404.6	1,404.6	4.6	4.6	157.30	-148.9	62.3	161.4	152.3	9.14	17.665	
1,425.0	1,425.0	1,429.6	1,429.6	4.6	4.6	157.30	-148.9	62.3	161.4	152.2	9.19	17.557	
1,500.0	1,500.0	1,504.9	1,504.9	4.7	4.7	157.30	-148.9	62.3	161.4	152.0	9.37	17.232	
1,520.0	1,520.0	1,525.9	1,525.9	4.7	4.8	-135.17	-148.8	62.2	161.4	151.9	9.42	17.121	
1,600.0	1,600.0	1,610.3	1,610.3	4.8	4.9	-135.34	-147.4	60.8	160.8	151.1	9.71	16.559	
1,615.0	1,615.0	1,626.1	1,626.1	4.9	4.9	-135.40	-147.0	60.3	160.6	150.8	9.78	16.427	
1,700.0	1,699.8	1,715.7	1,715.5	5.0	5.2	-135.91	-143.3	56.5	159.3	149.1	10.17	15.657	
1,710.0	1,709.8	1,726.2	1,726.0	5.1	5.2	-135.99	-142.7	55.9	159.1	148.9	10.22	15.565	
1,800.0	1,799.5	1,821.0	1,820.4	5.3	5.4	-136.90	-136.4	49.4	156.9	146.3	10.66	14.724	
1,805.0	1,804.4	1,826.3	1,825.6	5.3	5.5	-136.96	-136.0	49.0	156.8	146.1	10.68	14.676	
1,900.0	1,898.7	1,926.2	1,924.7	5.6	5.7	-138.34	-126.9	39.5	153.8	142.6	11.14	13.806	
1,995.0	1,992.5	2,022.3	2,019.5	5.9	5.9	-140.19	-116.5	28.8	151.0	139.4	11.57	13.056	
2,000.0	1,997.5	2,027.3	2,024.5	5.9	5.9	-140.31	-116.0	28.3	150.9	139.3	11.59	13.019	
2,049.9	2,046.6	2,077.1	2,073.7	6.1	6.0	-141.60	-110.6	22.7	150.5	138.7	11.87	12.679 CC, ES	
2,090.0	2,085.8	2,117.0	2,113.1	6.2	6.1	-142.77	-106.2	18.2	150.8	138.7	12.11	12.452	
2,100.0	2,095.6	2,127.0	2,123.0	6.2	6.2	-143.09	-105.1	17.0	150.9	138.8	12.17	12.401	
2,185.0	2,178.5	2,211.6	2,206.5	6.6	6.4	-145.99	-95.9	7.5	153.5	140.8	12.72	12.071	
2,199.9	2,193.0	2,226.4	2,221.2	6.6	6.5	-146.54	-94.3	5.9	154.2	141.4	12.82	12.031	
2,280.0	2,270.7	2,306.0	2,299.7	6.9	6.7	-149.47	-85.7	-3.1	158.4	145.1	13.33	11.882	
2,300.0	2,290.1	2,325.9	2,319.4	6.9	6.8	-150.18	-83.5	-5.3	159.5	146.1	13.46	11.849	
2,375.0	2,362.9	2,400.4	2,393.0	7.2	7.0	-152.75	-75.4	-13.7	163.9	150.0	13.98	11.731	
2,400.0	2,387.1	2,425.2	2,417.5	7.3	7.1	-153.58	-72.7	-16.5	165.5	151.3	14.15	11.695	
2,470.0	2,455.0	2,494.8	2,486.2	7.5	7.3	-155.81	-65.1	-24.3	170.0	155.3	14.65	11.603	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1													Offset Site Error: 0.0 usft	
Survey Program: Reference		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8432-r.5 MWD+IFR1+MS						Rule Assigned:		Offset Well Error: 3.0 usft				
Offset		Semi Major Axis		Offset Wellbore Centre		Distance		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)	Separation Factor	Warning	
2,500.0	2,484.1	2,524.6	2,515.6	7.6	7.4	-156.73	-61.9	-27.7	172.0	157.1	14.86	11.569		
2,565.0	2,547.2	2,589.1	2,579.4	7.8	7.6	-158.66	-54.9	-34.9	176.4	161.1	15.34	11.500		
2,600.0	2,581.2	2,623.9	2,613.8	8.0	7.8	-159.65	-51.1	-38.9	178.9	163.3	15.60	11.468		
2,660.0	2,639.4	2,683.5	2,672.6	8.2	8.0	-161.30	-44.6	-45.6	183.3	167.3	16.06	11.418		
2,700.0	2,678.2	2,723.3	2,711.9	8.3	8.1	-162.35	-40.3	-50.0	186.3	170.0	16.36	11.390		
2,755.0	2,731.6	2,777.9	2,765.9	8.5	8.3	-163.74	-34.3	-56.2	190.6	173.8	16.78	11.355		
2,800.0	2,775.2	2,822.6	2,810.0	8.7	8.5	-164.83	-29.5	-61.2	194.1	177.0	17.13	11.333		
2,850.0	2,823.8	2,872.3	2,859.1	8.9	8.6	-166.00	-24.1	-66.8	198.1	180.6	17.52	11.310		
2,900.0	2,872.3	2,922.0	2,908.2	9.1	8.8	-167.12	-18.7	-72.4	202.2	184.3	17.91	11.294		
2,945.0	2,915.9	2,966.7	2,952.3	9.3	9.0	-168.10	-13.8	-77.4	206.0	187.7	18.26	11.281		
3,000.0	2,969.3	3,021.3	3,006.3	9.5	9.2	-169.24	-7.9	-83.6	210.6	191.9	18.69	11.270		
3,040.0	3,008.1	3,061.1	3,045.5	9.7	9.4	-170.03	-3.5	-88.0	214.1	195.1	19.00	11.264		
3,100.0	3,066.3	3,120.7	3,104.4	9.9	9.6	-171.19	3.0	-94.7	219.3	199.8	19.48	11.260		
3,135.0	3,100.3	3,155.5	3,138.8	10.1	9.7	-171.83	6.7	-98.6	222.4	202.6	19.75	11.259		
3,200.0	3,163.4	3,220.0	3,202.6	10.4	10.0	-172.98	13.8	-105.9	228.2	208.0	20.27	11.261		
3,230.0	3,192.5	3,249.9	3,232.0	10.5	10.1	-173.50	17.0	-109.3	230.9	210.4	20.50	11.263		
3,300.0	3,260.4	3,319.4	3,300.7	10.8	10.4	-174.65	24.6	-117.1	237.3	216.3	21.06	11.271		
3,325.0	3,284.6	3,344.2	3,325.2	10.9	10.5	-175.04	27.3	-119.9	239.6	218.4	21.26	11.275		
3,400.0	3,357.4	3,418.8	3,398.8	11.2	10.8	-176.19	35.4	-128.3	246.6	224.8	21.85	11.289		
3,420.0	3,376.8	3,438.6	3,418.4	11.3	10.8	-176.48	37.5	-130.5	248.5	226.5	22.01	11.293		
3,500.0	3,454.4	3,518.1	3,496.9	11.6	11.2	-177.61	46.2	-139.4	256.1	233.5	22.64	11.314		
3,515.0	3,469.0	3,533.0	3,511.7	11.7	11.2	-177.82	47.8	-141.1	257.5	234.8	22.76	11.318		
3,600.0	3,551.5	3,617.5	3,595.1	12.1	11.6	-178.94	57.0	-150.6	265.7	242.3	23.43	11.343		
3,610.0	3,561.2	3,627.4	3,604.9	12.1	11.6	-179.07	58.1	-151.7	266.7	243.2	23.50	11.346		
3,700.0	3,648.5	3,716.8	3,693.2	12.5	12.0	-179.83	67.8	-161.8	275.5	251.3	24.21	11.377		
3,705.0	3,653.4	3,721.8	3,698.1	12.6	12.0	-179.77	68.3	-162.3	276.0	251.7	24.25	11.379		
3,800.0	3,745.5	3,816.2	3,791.3	13.0	12.4	-178.68	78.6	-173.0	285.3	260.3	25.00	11.414		
3,895.0	3,837.7	3,910.6	3,884.6	13.4	12.8	-177.66	88.9	-183.6	294.8	269.1	25.74	11.451		
3,900.0	3,842.6	3,915.5	3,889.5	13.4	12.8	-177.61	89.4	-184.1	295.3	269.5	25.78	11.454		
3,990.0	3,929.9	4,004.9	3,977.8	13.8	13.1	-176.71	99.1	-194.2	304.4	277.9	26.49	11.491		
4,000.0	3,939.6	4,014.9	3,987.6	13.9	13.2	-176.61	100.2	-195.3	305.4	278.8	26.56	11.495		
4,085.0	4,022.1	4,099.3	4,071.0	14.3	13.5	-175.81	109.4	-204.8	314.0	286.8	27.23	11.532		
4,100.0	4,036.6	4,114.2	4,085.7	14.3	13.6	-175.67	111.0	-206.5	315.5	288.2	27.35	11.538		
4,180.0	4,114.3	4,193.7	4,164.2	14.7	13.9	-174.97	119.7	-215.4	323.7	295.7	27.98	11.570		
4,200.0	4,133.7	4,213.4	4,183.7	14.8	14.0	-174.80	121.8	-217.6	325.7	297.6	28.13	11.579		
4,275.0	4,206.4	4,284.2	4,253.7	15.1	14.3	-174.24	129.2	-225.3	333.9	305.2	28.69	11.640		
4,300.0	4,230.7	4,307.8	4,277.0	15.3	14.4	-174.08	131.5	-227.7	336.8	308.0	28.87	11.666		
4,370.0	4,298.6	4,373.7	4,342.4	15.6	14.7	-173.67	137.6	-234.0	345.5	316.1	29.39	11.754		
4,400.0	4,327.7	4,400.0	4,368.4	15.7	14.8	-173.54	139.9	-236.4	349.4	319.8	29.60	11.805		
4,465.0	4,390.8	4,463.0	4,431.0	16.0	15.0	-173.25	145.1	-241.7	358.4	328.3	30.10	11.909		
4,500.0	4,424.7	4,495.8	4,463.6	16.2	15.2	-173.13	147.6	-244.3	363.5	333.1	30.35	11.975		
4,560.0	4,483.0	4,551.9	4,519.4	16.5	15.4	-172.96	151.6	-248.4	372.6	341.8	30.79	12.101		
4,600.0	4,521.8	4,589.2	4,556.6	16.6	15.5	-172.87	154.0	-250.9	379.0	347.9	31.09	12.191		
4,655.0	4,575.1	4,640.4	4,607.6	16.9	15.7	-172.79	157.1	-254.1	388.1	356.6	31.48	12.327		
4,700.0	4,618.8	4,682.3	4,649.3	17.1	15.9	-172.74	159.3	-256.5	395.9	364.1	31.81	12.445		
4,750.0	4,667.3	4,728.6	4,695.5	17.4	16.0	-172.72	161.6	-258.8	404.9	372.7	32.17	12.586		
4,800.0	4,715.8	4,774.8	4,741.6	17.6	16.2	-172.72	163.6	-260.9	414.2	381.7	32.52	12.735		
4,845.0	4,759.5	4,816.3	4,783.1	17.8	16.3	-172.75	165.2	-262.5	422.9	390.0	32.84	12.876		
4,900.0	4,812.9	4,866.9	4,833.6	18.1	16.5	-172.81	166.8	-264.2	433.9	400.7	33.22	13.059		
4,940.0	4,851.7	4,903.6	4,870.2	18.2	16.6	-172.86	167.8	-265.2	442.1	408.6	33.50	13.197		
5,000.0	4,909.9	4,958.4	4,925.0	18.5	16.8	-172.97	169.0	-266.5	455.0	421.1	33.91	13.418		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1											Offset Site Error:	0.0 usft	
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8432-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft	
Reference	Offset	Semi Major Axis	Offset Wellbore Centre	Distance	Rule Assigned:								
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
5,035.0	4,943.9	4,990.3	4,956.9	18.7	16.9	173.04	169.5	-267.0	462.7	428.5	34.14	13.551	
5,100.0	5,006.9	5,049.3	5,015.9	19.0	17.0	173.20	170.2	-267.7	477.4	442.9	34.53	13.828	
5,130.0	5,036.0	5,076.5	5,043.1	19.1	17.0	173.28	170.3	-267.8	484.4	449.7	34.70	13.961	
5,200.0	5,104.0	5,141.9	5,108.6	19.5	17.1	173.50	170.4	-267.9	501.1	466.1	35.09	14.280	
5,225.0	5,128.2	5,166.2	5,132.8	19.6	17.1	173.58	170.4	-267.9	507.2	471.9	35.23	14.395	
5,300.0	5,201.0	5,239.0	5,205.6	19.9	17.1	173.80	170.4	-267.9	525.2	489.5	35.65	14.732	
5,320.0	5,220.4	5,258.4	5,225.0	20.0	17.2	173.85	170.4	-267.9	530.0	494.2	35.76	14.821	
5,400.0	5,298.0	5,336.0	5,302.6	20.4	17.2	174.07	170.4	-267.9	549.3	513.0	36.21	15.170	
5,415.0	5,312.6	5,350.5	5,317.2	20.5	17.2	174.11	170.4	-267.9	552.9	516.6	36.29	15.235	
5,500.0	5,395.1	5,433.0	5,399.7	20.9	17.3	174.32	170.4	-267.9	573.3	536.6	36.76	15.596	
5,510.0	5,404.8	5,442.7	5,409.4	20.9	17.3	174.34	170.4	-267.9	575.7	538.9	36.82	15.638	
5,600.0	5,492.1	5,530.1	5,496.7	21.4	17.3	174.55	170.4	-267.9	597.4	560.1	37.32	16.010	
5,605.0	5,496.9	5,534.9	5,501.5	21.4	17.3	174.56	170.4	-267.9	598.6	561.3	37.34	16.030	
5,700.0	5,589.1	5,627.1	5,593.7	21.8	17.4	174.76	170.4	-267.9	621.5	583.6	37.87	16.412	
5,795.0	5,681.3	5,719.3	5,685.9	22.3	17.4	174.95	170.4	-267.9	644.4	606.0	38.39	16.784	
5,800.0	5,686.1	5,724.1	5,690.7	22.3	17.4	174.96	170.4	-267.9	645.6	607.2	38.42	16.803	
5,890.0	5,773.5	5,811.4	5,778.1	22.8	17.5	175.12	170.4	-267.9	667.3	628.4	38.92	17.147	
5,900.0	5,783.2	5,821.1	5,787.8	22.8	17.5	175.14	170.4	-267.9	669.7	630.7	38.97	17.184	
5,985.0	5,865.6	5,903.6	5,870.2	23.2	17.5	175.28	170.4	-267.9	690.2	650.8	39.44	17.500	
6,000.0	5,880.2	5,918.2	5,884.8	23.3	17.5	175.31	170.4	-267.9	693.8	654.3	39.52	17.555	
6,080.0	5,957.8	5,995.8	5,962.4	23.7	17.6	175.43	170.4	-267.9	713.1	673.1	39.96	17.844	
6,100.0	5,977.2	6,015.2	5,981.8	23.8	17.6	175.47	170.4	-267.9	717.9	677.9	40.07	17.916	
6,175.0	6,050.0	6,088.0	6,054.6	24.1	17.6	175.58	170.4	-267.9	736.0	695.5	40.48	18.180	
6,200.0	6,074.3	6,112.2	6,078.9	24.2	17.6	175.61	170.4	-267.9	742.1	701.4	40.62	18.267	
6,218.3	6,092.0	6,130.0	6,096.6	24.3	17.6	175.64	170.4	-267.9	746.5	705.7	40.72	18.332	
6,270.0	6,142.3	6,180.3	6,146.9	24.6	17.7	175.73	170.4	-267.9	758.5	717.5	41.00	18.499	
6,300.0	6,171.6	6,209.5	6,176.2	24.7	17.7	175.77	170.4	-267.9	765.0	723.9	41.16	18.585	
6,365.0	6,235.2	6,273.2	6,239.8	25.0	17.7	175.86	170.4	-267.9	778.2	736.7	41.52	18.743	
6,400.0	6,269.6	6,307.6	6,274.2	25.2	17.7	175.91	170.4	-267.9	784.7	743.0	41.71	18.813	
6,460.0	6,328.7	6,366.7	6,333.3	25.5	17.8	175.97	170.4	-267.9	794.9	752.8	42.03	18.914	
6,500.0	6,368.3	6,406.2	6,372.9	25.7	17.8	176.01	170.4	-267.9	800.9	758.7	42.24	18.964	
6,555.0	6,422.7	6,460.7	6,427.3	25.9	17.8	176.06	170.4	-267.9	808.4	765.9	42.51	19.016	
6,600.0	6,467.4	6,505.4	6,472.0	26.1	17.8	176.09	170.4	-267.9	813.7	771.0	42.74	19.041	
6,650.0	6,517.2	6,555.1	6,521.8	26.3	17.9	176.13	170.4	-267.9	818.8	775.8	42.97	19.055	
6,700.0	6,567.0	6,605.0	6,571.6	26.5	17.9	176.15	170.4	-267.9	823.0	779.8	43.21	19.050	
6,745.0	6,611.9	6,649.9	6,616.5	26.7	17.9	176.17	170.4	-267.9	826.1	782.7	43.40	19.036	
6,800.0	6,666.8	6,704.8	6,671.4	26.9	17.9	176.19	170.4	-267.9	828.9	785.3	43.63	18.997	
6,840.0	6,706.8	6,744.8	6,711.4	27.0	18.0	176.19	170.4	-267.9	830.3	786.5	43.77	18.968	
6,900.0	6,766.8	6,804.7	6,771.4	27.2	18.0	176.20	170.4	-267.9	831.3	787.3	43.98	18.901	
6,918.2	6,785.0	6,823.0	6,789.6	27.2	18.0	108.67	170.4	-267.9	831.3	787.3	44.01	18.890	
6,935.0	6,801.8	6,839.7	6,806.4	27.2	18.0	108.67	170.4	-267.9	831.3	787.3	44.02	18.884	
7,000.0	6,866.8	6,904.7	6,871.4	27.2	18.1	108.67	170.4	-267.9	831.3	787.3	44.08	18.861	
7,030.0	6,896.8	6,934.7	6,901.4	27.2	18.1	108.67	170.4	-267.9	831.3	787.2	44.11	18.849	
7,100.0	6,966.8	7,004.7	6,971.4	27.2	18.1	108.67	170.4	-267.9	831.3	787.2	44.17	18.822	
7,125.0	6,991.8	7,029.7	6,996.4	27.2	18.1	108.67	170.4	-267.9	831.3	787.1	44.19	18.812	
7,200.0	7,066.8	7,104.7	7,071.4	27.3	18.2	108.67	170.4	-267.9	831.3	787.1	44.26	18.783	
7,220.0	7,086.8	7,124.7	7,091.4	27.3	18.2	108.67	170.4	-267.9	831.3	787.1	44.28	18.775	
7,300.0	7,166.8	7,204.7	7,171.4	27.3	18.2	108.67	170.4	-267.9	831.3	787.0	44.35	18.744	
7,315.0	7,181.8	7,219.7	7,186.4	27.3	18.2	108.67	170.4	-267.9	831.3	787.0	44.36	18.739	
7,400.0	7,266.8	7,304.7	7,271.4	27.3	18.3	108.67	170.4	-267.9	831.3	786.9	44.44	18.706	
7,410.0	7,276.8	7,314.7	7,281.4	27.3	18.3	108.67	170.4	-267.9	831.3	786.9	44.45	18.702	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8432-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum Separation		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
7,500.0	7,366.8	7,404.7	7,371.4	27.4	18.3	108.67	170.4	-267.9	831.3	786.8	44.53	18.667
7,505.0	7,371.8	7,409.7	7,376.4	27.4	18.3	108.67	170.4	-267.9	831.3	786.8	44.54	18.665
7,600.0	7,466.8	7,504.7	7,471.4	27.4	18.4	108.67	170.4	-267.9	831.3	786.7	44.63	18.628
7,695.0	7,561.8	7,599.7	7,566.4	27.4	18.4	108.67	170.4	-267.9	831.3	786.6	44.72	18.592
7,700.0	7,566.8	7,604.7	7,571.4	27.4	18.5	108.67	170.4	-267.9	831.3	786.6	44.72	18.590
7,790.0	7,656.8	7,694.7	7,661.4	27.5	18.5	108.67	170.4	-267.9	831.3	786.5	44.80	18.555
7,800.0	7,666.8	7,704.7	7,671.4	27.5	18.5	108.67	170.4	-267.9	831.3	786.5	44.81	18.551
7,885.0	7,751.8	7,789.7	7,756.4	27.5	18.6	108.67	170.4	-267.9	831.3	786.4	44.89	18.518
7,900.0	7,766.8	7,804.7	7,771.4	27.5	18.6	108.67	170.4	-267.9	831.3	786.4	44.91	18.512
7,980.0	7,846.8	7,884.7	7,851.4	27.5	18.6	108.67	170.4	-267.9	831.3	786.4	44.98	18.481
8,000.0	7,866.8	7,904.7	7,871.4	27.5	18.6	108.67	170.4	-267.9	831.3	786.3	45.00	18.474
8,075.0	7,941.8	7,979.7	7,946.4	27.6	18.7	108.67	170.4	-267.9	831.3	786.3	45.07	18.445
8,100.0	7,966.8	8,004.7	7,971.4	27.6	18.7	108.67	170.4	-267.9	831.3	786.2	45.10	18.435
8,170.0	8,036.8	8,074.7	8,041.4	27.6	18.7	108.67	170.4	-267.9	831.3	786.2	45.16	18.408
8,200.0	8,066.8	8,104.7	8,071.4	27.6	18.7	108.67	170.4	-267.9	831.3	786.1	45.19	18.396
8,265.0	8,131.8	8,169.7	8,136.4	27.6	18.8	108.67	170.4	-267.9	831.3	786.1	45.25	18.371
8,300.0	8,166.8	8,204.7	8,171.4	27.6	18.8	108.67	170.4	-267.9	831.3	786.1	45.29	18.358
8,360.0	8,226.8	8,264.7	8,231.4	27.6	18.8	108.67	170.4	-267.9	831.3	786.0	45.34	18.335
8,400.0	8,266.8	8,304.7	8,271.4	27.7	18.9	108.67	170.4	-267.9	831.3	786.0	45.38	18.319
8,455.0	8,321.8	8,359.7	8,326.4	27.7	18.9	108.67	170.4	-267.9	831.3	785.9	45.43	18.298
8,500.0	8,366.8	8,404.7	8,371.4	27.7	18.9	108.67	170.4	-267.9	831.3	785.9	45.47	18.281
8,550.0	8,416.8	8,450.0	8,416.6	27.7	18.9	108.69	170.1	-267.9	831.4	786.0	45.46	18.288
8,600.0	8,466.8	8,482.1	8,448.6	27.7	18.9	108.81	168.2	-267.9	832.3	787.0	45.36	18.351
8,645.0	8,511.8	8,512.6	8,479.0	27.7	19.0	109.03	164.8	-267.9	833.9	788.7	45.28	18.419
8,700.0	8,566.8	8,550.0	8,515.8	27.8	19.0	109.45	158.4	-268.0	837.0	791.8	45.18	18.526
8,740.0	8,606.8	8,575.5	8,540.6	27.8	19.0	109.82	152.6	-268.0	840.0	794.9	45.09	18.630
8,800.0	8,666.8	8,613.5	8,577.2	27.8	19.0	110.51	142.0	-268.1	845.9	800.9	44.95	18.818
8,835.0	8,701.8	8,635.0	8,597.5	27.8	19.1	110.96	134.9	-268.2	850.1	805.2	44.86	18.951
8,900.0	8,766.8	8,673.4	8,633.0	27.8	19.1	111.87	120.5	-268.3	859.5	814.8	44.65	19.249
8,930.0	8,796.8	8,690.3	8,648.3	27.8	19.1	112.32	113.3	-268.4	864.5	820.0	44.54	19.411
9,000.0	8,866.8	8,728.1	8,681.8	27.9	19.1	113.41	95.8	-268.5	878.3	834.0	44.24	19.852
9,025.0	8,891.8	8,750.0	8,700.6	27.9	19.2	114.09	84.6	-268.6	883.9	839.7	44.24	19.979
9,100.0	8,966.8	8,777.5	8,723.6	27.9	19.2	115.00	69.6	-268.7	902.8	859.1	43.71	20.651
9,120.0	8,986.8	8,786.7	8,731.2	27.9	19.2	115.32	64.3	-268.8	908.4	864.8	43.60	20.836
9,200.0	9,066.8	8,821.6	8,759.0	27.9	19.2	116.57	43.2	-269.0	933.2	890.1	43.09	21.660
9,215.0	9,081.8	8,827.8	8,763.8	28.0	19.2	116.80	39.3	-269.0	938.3	895.3	42.98	21.829
9,300.0	9,166.8	8,850.0	8,780.6	28.0	19.3	117.63	24.9	-269.1	969.8	927.6	42.24	22.962
9,310.0	9,176.8	8,864.6	8,791.4	28.0	19.3	118.19	15.0	-269.2	973.7	931.4	42.31	23.014
9,326.3	9,193.0	8,870.5	8,795.7	28.0	19.3	118.42	10.9	-269.2	980.3	938.1	42.19	23.237
9,350.0	9,216.8	8,879.0	8,801.8	28.0	19.3	-60.79	5.0	-269.3	990.0	948.2	41.79	23.689
9,400.0	9,266.6	8,900.0	8,816.4	28.0	19.3	-58.18	-10.0	-269.4	1,010.0	968.5	41.44	24.374
9,405.0	9,271.5	8,900.0	8,816.4	28.0	19.3	-58.00	-10.0	-269.4	1,011.9	970.5	41.37	24.458
9,450.0	9,315.8	8,916.0	8,827.2	28.0	19.3	-55.94	-21.8	-269.5	1,029.2	988.2	41.02	25.091
9,500.0	9,364.1	8,934.9	8,839.6	28.0	19.3	-53.80	-36.2	-269.6	1,047.6	1,006.9	40.65	25.771
9,550.0	9,411.1	8,950.0	8,849.0	28.0	19.4	-51.97	-47.9	-269.7	1,064.8	1,024.6	40.24	26.461
9,595.0	9,452.0	8,971.6	8,862.1	28.1	19.4	-50.32	-65.1	-269.8	1,079.3	1,039.3	39.99	26.990
9,600.0	9,456.5	8,973.6	8,863.2	28.1	19.4	-50.16	-66.7	-269.9	1,080.8	1,040.9	39.96	27.051
9,650.0	9,499.8	9,000.0	8,878.2	28.1	19.4	-48.53	-88.5	-270.0	1,095.6	1,055.8	39.72	27.583
9,690.0	9,532.8	9,000.0	8,878.2	28.1	19.4	-47.71	-88.5	-270.0	1,106.2	1,066.9	39.30	28.150
9,700.0	9,540.8	9,000.0	8,878.2	28.1	19.4	-47.51	-88.5	-270.0	1,108.8	1,069.7	39.20	28.290
9,750.0	9,579.2	9,032.8	8,895.4	28.1	19.4	-46.21	-116.4	-270.3	1,120.3	1,081.2	39.08	28.669

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8432-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Distance	Rule Assigned:									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,785.0	9,604.3	9,050.0	8,903.8	28.1	19.5	-45.51	-131.4	-270.4	1,127.4	1,088.5	38.94	28.955	
9,800.0	9,614.6	9,050.0	8,903.8	28.1	19.5	-45.31	-131.4	-270.4	1,130.2	1,091.4	38.80	29.131	
9,850.0	9,646.8	9,073.0	8,914.2	28.2	19.5	-44.53	-151.9	-270.6	1,138.3	1,099.7	38.61	29.486	
9,880.0	9,664.5	9,085.0	8,919.4	28.2	19.5	-44.16	-162.8	-270.7	1,142.4	1,103.9	38.49	29.684	
9,900.0	9,675.6	9,100.0	8,925.5	28.2	19.5	-43.92	-176.5	-270.8	1,144.8	1,106.3	38.48	29.749	
9,950.0	9,700.7	9,100.0	8,925.5	28.2	19.5	-43.59	-176.5	-270.8	1,149.5	1,111.4	38.09	30.176	
9,975.0	9,711.8	9,123.5	8,934.3	28.2	19.5	-43.41	-198.2	-270.9	1,150.9	1,112.7	38.16	30.162	
10,000.0	9,721.9	9,133.6	8,937.9	28.3	19.5	-43.31	-207.7	-271.0	1,152.0	1,113.9	38.08	30.249	
10,050.0	9,739.1	9,150.0	8,943.2	28.3	19.6	-43.24	-223.2	-271.2	1,152.8	1,114.9	37.91	30.406	
10,070.0	9,744.8	9,150.0	8,943.2	28.3	19.6	-43.25	-223.2	-271.2	1,152.7	1,114.9	37.78	30.508	
10,100.0	9,752.1	9,174.2	8,950.3	28.3	19.6	-43.34	-246.3	-271.3	1,151.7	1,113.8	37.85	30.431	
10,150.0	9,760.9	9,200.0	8,956.8	28.4	19.6	-43.62	-271.3	-271.5	1,148.7	1,110.9	37.81	30.378	
10,165.0	9,762.7	9,200.0	8,956.8	28.4	19.6	-43.71	-271.3	-271.5	1,147.5	1,109.7	37.73	30.412	
10,200.0	9,765.4	9,200.0	8,956.8	28.4	19.6	-43.94	-271.3	-271.5	1,144.1	1,106.6	37.54	30.477	
10,225.9	9,766.0	9,225.1	8,962.0	28.5	19.6	-44.32	-295.8	-271.8	1,140.7	1,103.0	37.65	30.296	
10,260.0	9,766.0	9,250.0	8,966.1	28.5	19.6	-44.47	-320.4	-272.0	1,136.5	1,098.8	37.71	30.136	
10,300.0	9,766.1	9,250.0	8,966.1	28.5	19.6	-44.47	-320.4	-272.0	1,132.2	1,094.7	37.49	30.203	
10,355.0	9,766.1	9,277.9	8,969.4	28.6	19.7	-44.58	-348.1	-272.2	1,127.7	1,090.2	37.46	30.100	
10,400.0	9,766.1	9,300.0	8,971.1	28.7	19.7	-44.64	-370.1	-272.4	1,125.2	1,087.8	37.43	30.060	
10,450.0	9,766.2	9,317.4	8,971.8	28.8	19.7	-44.67	-387.6	-272.5	1,123.6	1,086.3	37.32	30.105	
10,485.4	9,766.2	9,332.4	8,972.0	28.8	19.7	-44.68	-402.5	-272.6	1,123.3	1,086.0	37.27	30.142	
10,500.0	9,766.2	9,347.0	8,972.0	28.8	19.7	-44.68	-417.2	-272.8	1,123.3	1,086.0	37.32	30.095	
10,545.0	9,766.2	9,392.0	8,972.0	28.9	19.8	-44.67	-462.2	-273.1	1,123.3	1,085.8	37.51	29.945	
10,600.0	9,766.3	9,447.0	8,972.1	29.0	19.8	-44.67	-517.2	-273.6	1,123.3	1,085.6	37.76	29.748	
10,640.0	9,766.3	9,487.0	8,972.1	29.1	19.9	-44.67	-557.2	-273.9	1,123.3	1,085.4	37.95	29.597	
10,700.0	9,766.3	9,547.0	8,972.1	29.2	20.0	-44.67	-617.2	-274.4	1,123.3	1,085.1	38.26	29.362	
10,735.0	9,766.4	9,582.0	8,972.1	29.2	20.0	-44.67	-652.2	-274.7	1,123.3	1,084.9	38.45	29.218	
10,800.0	9,766.4	9,647.0	8,972.2	29.4	20.1	-44.67	-717.2	-275.2	1,123.3	1,084.5	38.81	28.944	
10,830.0	9,766.4	9,677.0	8,972.2	29.4	20.1	-44.67	-747.2	-275.5	1,123.3	1,084.3	38.99	28.812	
10,900.0	9,766.5	9,747.0	8,972.2	29.6	20.2	-44.67	-817.2	-276.1	1,123.3	1,083.9	39.42	28.498	
10,925.0	9,766.5	9,772.0	8,972.3	29.6	20.3	-44.67	-842.2	-276.3	1,123.3	1,083.8	39.58	28.382	
11,000.0	9,766.6	9,847.0	8,972.3	29.8	20.4	-44.67	-917.1	-276.9	1,123.4	1,083.3	40.08	28.029	
11,020.0	9,766.6	9,867.0	8,972.3	29.9	20.5	-44.67	-937.1	-277.1	1,123.4	1,083.1	40.22	27.932	
11,100.0	9,766.6	9,947.0	8,972.4	30.0	20.6	-44.67	-1,017.1	-277.7	1,123.4	1,082.6	40.79	27.543	
11,115.0	9,766.6	9,962.0	8,972.4	30.1	20.6	-44.67	-1,032.1	-277.8	1,123.4	1,082.5	40.90	27.468	
11,200.0	9,766.7	10,047.0	8,972.4	30.3	20.8	-44.67	-1,117.1	-278.5	1,123.4	1,081.8	41.54	27.043	
11,210.0	9,766.7	10,057.0	8,972.4	30.3	20.8	-44.67	-1,127.1	-278.6	1,123.4	1,081.8	41.62	26.992	
11,300.0	9,766.8	10,147.0	8,972.5	30.6	21.1	-44.67	-1,217.1	-279.4	1,123.4	1,081.0	42.34	26.533	
11,305.0	9,766.8	10,152.0	8,972.5	30.6	21.1	-44.67	-1,222.1	-279.4	1,123.4	1,081.0	42.38	26.507	
11,400.0	9,766.8	10,247.0	8,972.5	30.9	21.3	-44.67	-1,317.1	-280.2	1,123.4	1,080.2	43.18	26.017	
11,495.0	9,766.9	10,342.0	8,972.6	31.1	21.6	-44.67	-1,412.1	-281.0	1,123.4	1,079.4	44.01	25.524	
11,500.0	9,766.9	10,347.0	8,972.6	31.2	21.6	-44.67	-1,417.1	-281.0	1,123.4	1,079.3	44.06	25.498	
11,590.0	9,767.0	10,437.0	8,972.7	31.4	21.9	-44.67	-1,507.1	-281.8	1,123.4	1,078.5	44.88	25.031	
11,600.0	9,767.0	10,447.0	8,972.7	31.5	21.9	-44.67	-1,517.1	-281.8	1,123.4	1,078.4	44.97	24.979	
11,685.0	9,767.1	10,532.0	8,972.7	31.8	22.2	-44.67	-1,602.1	-282.5	1,123.4	1,077.6	45.78	24.540	
11,700.0	9,767.1	10,547.0	8,972.7	31.8	22.3	-44.67	-1,617.1	-282.7	1,123.4	1,077.5	45.92	24.463	
11,780.0	9,767.1	10,627.0	8,972.8	32.1	22.5	-44.67	-1,697.1	-283.3	1,123.4	1,076.7	46.71	24.053	
11,800.0	9,767.1	10,647.0	8,972.8	32.1	22.6	-44.67	-1,717.1	-283.5	1,123.4	1,076.5	46.90	23.951	
11,875.0	9,767.2	10,722.0	8,972.8	32.4	22.9	-44.67	-1,792.1	-284.1	1,123.4	1,075.8	47.66	23.571	
11,900.0	9,767.2	10,747.0	8,972.9	32.5	23.0	-44.67	-1,817.1	-284.3	1,123.4	1,075.5	47.92	23.445	
11,970.0	9,767.3	10,817.0	8,972.9	32.8	23.3	-44.67	-1,887.1	-284.9	1,123.4	1,074.8	48.64	23.096	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8432-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Offset	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation	Warning		
Measured	Vertical	Measured	Vertical	Reference	Offset	Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor	
Depth	Depth	Depth	Depth	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
12,000.0	9,767.3	10,847.0	8,972.9	32.9	23.4	-44.67	-1,917.1	-285.1	1,123.4	1,074.5	48.96	22.947	
12,065.0	9,767.3	10,912.0	8,972.9	33.1	23.7	-44.67	-1,982.1	-285.7	1,123.5	1,073.8	49.65	22.628	
12,100.0	9,767.4	10,947.0	8,973.0	33.2	23.8	-44.67	-2,017.1	-286.0	1,123.5	1,073.4	50.02	22.458	
12,160.0	9,767.4	11,007.0	8,973.0	33.5	24.1	-44.67	-2,077.1	-286.5	1,123.5	1,072.8	50.68	22.169	
12,200.0	9,767.4	11,047.0	8,973.0	33.6	24.3	-44.67	-2,117.1	-286.8	1,123.5	1,072.3	51.12	21.979	
12,255.0	9,767.5	11,102.0	8,973.1	33.9	24.5	-44.67	-2,172.1	-287.3	1,123.5	1,071.7	51.73	21.719	
12,300.0	9,767.5	11,147.0	8,973.1	34.0	24.8	-44.67	-2,217.1	-287.6	1,123.5	1,071.2	52.23	21.510	
12,350.0	9,767.5	11,197.0	8,973.1	34.2	25.0	-44.67	-2,267.1	-288.0	1,123.5	1,070.7	52.80	21.279	
12,400.0	9,767.6	11,247.0	8,973.2	34.5	25.3	-44.67	-2,317.1	-288.5	1,123.5	1,070.1	53.37	21.052	
12,445.0	9,767.6	11,292.0	8,973.2	34.6	25.5	-44.67	-2,362.1	-288.8	1,123.5	1,069.6	53.89	20.849	
12,500.0	9,767.6	11,347.0	8,973.2	34.9	25.8	-44.67	-2,417.1	-289.3	1,123.5	1,069.0	54.52	20.605	
12,540.0	9,767.7	11,387.0	8,973.2	35.1	26.0	-44.67	-2,457.1	-289.6	1,123.5	1,068.5	54.99	20.430	
12,600.0	9,767.7	11,447.0	8,973.3	35.3	26.3	-44.67	-2,517.1	-290.1	1,123.5	1,067.8	55.70	20.170	
12,635.0	9,767.7	11,482.0	8,973.3	35.5	26.5	-44.67	-2,552.1	-290.4	1,123.5	1,067.4	56.12	20.021	
12,700.0	9,767.8	11,547.0	8,973.3	35.8	26.8	-44.67	-2,617.1	-290.9	1,123.5	1,066.6	56.89	19.747	
12,730.0	9,767.8	11,577.0	8,973.3	35.9	27.0	-44.67	-2,647.1	-291.2	1,123.5	1,066.3	57.26	19.622	
12,800.0	9,767.9	11,647.0	8,973.4	36.2	27.4	-44.67	-2,717.1	-291.8	1,123.5	1,065.4	58.11	19.336	
12,825.0	9,767.9	11,672.0	8,973.4	36.3	27.5	-44.67	-2,742.1	-292.0	1,123.5	1,065.1	58.41	19.235	
12,900.0	9,767.9	11,747.0	8,973.5	36.7	27.9	-44.67	-2,817.1	-292.6	1,123.5	1,064.2	59.33	18.936	
12,920.0	9,767.9	11,767.0	8,973.5	36.8	28.0	-44.67	-2,837.1	-292.7	1,123.5	1,064.0	59.58	18.858	
13,000.0	9,768.0	11,847.0	8,973.5	37.2	28.5	-44.66	-2,917.1	-293.4	1,123.5	1,063.0	60.57	18.549	
13,015.0	9,768.0	11,862.0	8,973.5	37.2	28.6	-44.66	-2,932.1	-293.5	1,123.5	1,062.8	60.76	18.491	
13,100.0	9,768.1	11,947.0	8,973.6	37.7	29.1	-44.66	-3,017.1	-294.2	1,123.5	1,061.7	61.83	18.172	
13,110.0	9,768.1	11,957.0	8,973.6	37.7	29.2	-44.66	-3,027.1	-294.3	1,123.5	1,061.6	61.95	18.135	
13,200.0	9,768.2	12,047.0	8,973.6	38.2	29.7	-44.66	-3,117.1	-295.1	1,123.6	1,060.5	63.10	17.807	
13,205.0	9,768.2	12,052.0	8,973.6	38.2	29.7	-44.66	-3,122.1	-295.1	1,123.6	1,060.4	63.16	17.789	
13,300.0	9,768.2	12,147.0	8,973.7	38.7	30.3	-44.66	-3,217.1	-295.9	1,123.6	1,059.2	64.38	17.453	
13,395.0	9,768.3	12,242.0	8,973.7	39.2	30.9	-44.66	-3,312.1	-296.7	1,123.6	1,058.0	65.60	17.126	
13,400.0	9,768.3	12,247.0	8,973.8	39.2	30.9	-44.66	-3,317.1	-296.7	1,123.6	1,057.9	65.67	17.110	
13,490.0	9,768.4	12,337.0	8,973.8	39.7	31.5	-44.66	-3,407.1	-297.5	1,123.6	1,056.7	66.84	16.810	
13,500.0	9,768.4	12,347.0	8,973.8	39.7	31.5	-44.66	-3,417.1	-297.5	1,123.6	1,056.6	66.97	16.777	
13,585.0	9,768.4	12,432.0	8,973.9	40.2	32.1	-44.66	-3,502.1	-298.2	1,123.6	1,055.5	68.09	16.502	
13,600.0	9,768.4	12,447.0	8,973.9	40.2	32.2	-44.66	-3,517.1	-298.4	1,123.6	1,055.3	68.29	16.454	
13,680.0	9,768.5	12,527.0	8,973.9	40.7	32.7	-44.66	-3,597.1	-299.0	1,123.6	1,054.3	69.34	16.203	
13,700.0	9,768.5	12,547.0	8,973.9	40.8	32.8	-44.66	-3,617.1	-299.2	1,123.6	1,054.0	69.61	16.142	
13,775.0	9,768.6	12,622.0	8,974.0	41.2	33.3	-44.66	-3,692.1	-299.8	1,123.6	1,053.0	70.61	15.913	
13,800.0	9,768.6	12,647.0	8,974.0	41.3	33.4	-44.66	-3,717.1	-300.0	1,123.6	1,052.7	70.94	15.839	
13,870.0	9,768.6	12,717.0	8,974.0	41.7	33.9	-44.66	-3,787.1	-300.6	1,123.6	1,051.7	71.88	15.632	
13,900.0	9,768.7	12,747.0	8,974.1	41.9	34.1	-44.66	-3,817.1	-300.8	1,123.6	1,051.3	72.28	15.545	
13,965.0	9,768.7	12,812.0	8,974.1	42.2	34.5	-44.66	-3,882.0	-301.4	1,123.6	1,050.5	73.16	15.359	
14,000.0	9,768.7	12,847.0	8,974.1	42.4	34.7	-44.66	-3,917.0	-301.7	1,123.6	1,050.0	73.63	15.260	
14,060.0	9,768.8	12,907.0	8,974.1	42.8	35.1	-44.66	-3,977.0	-302.2	1,123.6	1,049.2	74.44	15.094	
14,100.0	9,768.8	12,947.0	8,974.2	43.0	35.4	-44.66	-4,017.0	-302.5	1,123.6	1,048.7	74.99	14.984	
14,155.0	9,768.8	13,002.0	8,974.2	43.3	35.8	-44.66	-4,072.0	-302.9	1,123.6	1,047.9	75.74	14.836	
14,200.0	9,768.9	13,047.0	8,974.2	43.6	36.1	-44.66	-4,117.0	-303.3	1,123.6	1,047.3	76.35	14.717	
14,250.0	9,768.9	13,097.0	8,974.3	43.9	36.4	-44.66	-4,167.0	-303.7	1,123.7	1,046.6	77.04	14.586	
14,300.0	9,768.9	13,147.0	8,974.3	44.2	36.7	-44.66	-4,217.0	-304.1	1,123.7	1,045.9	77.72	14.457	
14,345.0	9,769.0	13,192.0	8,974.3	44.4	37.0	-44.66	-4,262.0	-304.5	1,123.7	1,045.3	78.34	14.343	
14,400.0	9,769.0	13,247.0	8,974.4	44.7	37.4	-44.66	-4,317.0	-305.0	1,123.7	1,044.6	79.10	14.206	
14,440.0	9,769.0	13,287.0	8,974.4	45.0	37.7	-44.66	-4,357.0	-305.3	1,123.7	1,044.0	79.65	14.107	
14,500.0	9,769.1	13,347.0	8,974.4	45.3	38.1	-44.66	-4,417.0	-305.8	1,123.7	1,043.2	80.48	13.961	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8432-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Offset	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation Factor		
14,535.0	9,769.1	13,382.0	8,974.4	45.5	38.3	-44.66	-4,452.0	-306.1	1,123.7	1,042.7	80.97	13.878	
14,600.0	9,769.2	13,447.0	8,974.5	45.9	38.8	-44.66	-4,517.0	-306.6	1,123.7	1,041.8	81.87	13.724	
14,630.0	9,769.2	13,477.0	8,974.5	46.1	39.0	-44.66	-4,547.0	-306.9	1,123.7	1,041.4	82.29	13.655	
14,700.0	9,769.2	13,547.0	8,974.5	46.5	39.5	-44.66	-4,617.0	-307.5	1,123.7	1,040.4	83.27	13.495	
14,725.0	9,769.3	13,572.0	8,974.5	46.7	39.6	-44.66	-4,642.0	-307.7	1,123.7	1,040.1	83.62	13.438	
14,800.0	9,769.3	13,647.0	8,974.6	47.1	40.1	-44.66	-4,717.0	-308.3	1,123.7	1,039.0	84.67	13.271	
14,820.0	9,769.3	13,667.0	8,974.6	47.2	40.3	-44.66	-4,737.0	-308.4	1,123.7	1,038.8	84.95	13.228	
14,900.0	9,769.4	13,747.0	8,974.7	47.7	40.8	-44.66	-4,817.0	-309.1	1,123.7	1,037.6	86.08	13.055	
14,915.0	9,769.4	13,762.0	8,974.7	47.8	40.9	-44.66	-4,837.0	-309.2	1,123.7	1,037.4	86.29	13.023	
15,000.0	9,769.5	13,847.0	8,974.7	48.4	41.5	-44.66	-4,917.0	-309.9	1,123.7	1,036.2	87.49	12.844	
15,010.0	9,769.5	13,857.0	8,974.7	48.4	41.6	-44.66	-4,927.0	-310.0	1,123.7	1,036.1	87.63	12.824	
15,100.0	9,769.5	13,947.0	8,974.8	49.0	42.2	-44.66	-5,017.0	-310.8	1,123.7	1,034.8	88.90	12.640	
15,105.0	9,769.5	13,952.0	8,974.8	49.0	42.3	-44.66	-5,022.0	-310.8	1,123.7	1,034.8	88.97	12.630	
15,200.0	9,769.6	14,047.0	8,974.8	49.6	42.9	-44.66	-5,117.0	-311.6	1,123.7	1,033.4	90.32	12.441	
15,295.0	9,769.7	14,142.0	8,974.9	50.2	43.6	-44.66	-5,212.0	-312.4	1,123.7	1,032.1	91.68	12.258	
15,300.0	9,769.7	14,147.0	8,974.9	50.2	43.6	-44.66	-5,217.0	-312.4	1,123.8	1,032.0	91.75	12.248	
15,390.0	9,769.7	14,237.0	8,974.9	50.8	44.3	-44.66	-5,307.0	-313.2	1,123.8	1,030.7	93.03	12.079	
15,400.0	9,769.7	14,247.0	8,975.0	50.9	44.3	-44.66	-5,317.0	-313.2	1,123.8	1,030.6	93.18	12.061	
15,485.0	9,769.8	14,332.0	8,975.0	51.4	44.9	-44.65	-5,402.0	-313.9	1,123.8	1,029.4	94.39	11.905	
15,500.0	9,769.8	14,347.0	8,975.0	51.5	45.0	-44.65	-5,417.0	-314.1	1,123.8	1,029.2	94.61	11.878	
15,580.0	9,769.9	14,427.0	8,975.1	52.0	45.6	-44.65	-5,497.0	-314.7	1,123.8	1,028.0	95.76	11.736	
15,600.0	9,769.9	14,447.0	8,975.1	52.1	45.7	-44.65	-5,517.0	-314.9	1,123.8	1,027.7	96.04	11.701	
15,675.0	9,769.9	14,522.0	8,975.1	52.6	46.3	-44.65	-5,592.0	-315.5	1,123.8	1,026.7	97.12	11.571	
15,700.0	9,770.0	14,547.0	8,975.1	52.8	46.4	-44.65	-5,617.0	-315.7	1,123.8	1,026.3	97.48	11.528	
15,770.0	9,770.0	14,617.0	8,975.2	53.2	46.9	-44.65	-5,687.0	-316.3	1,123.8	1,025.3	98.49	11.410	
15,800.0	9,770.0	14,647.0	8,975.2	53.4	47.2	-44.65	-5,717.0	-316.5	1,123.8	1,024.9	98.93	11.360	
15,865.0	9,770.1	14,712.0	8,975.2	53.8	47.6	-44.65	-5,782.0	-317.1	1,123.8	1,023.9	99.86	11.253	
15,900.0	9,770.1	14,747.0	8,975.3	54.1	47.9	-44.65	-5,817.0	-317.4	1,123.8	1,023.4	100.37	11.197	
15,960.0	9,770.1	14,807.0	8,975.3	54.5	48.3	-44.65	-5,877.0	-317.9	1,123.8	1,022.6	101.24	11.100	
16,000.0	9,770.2	14,847.0	8,975.3	54.7	48.6	-44.65	-5,917.0	-318.2	1,123.8	1,022.0	101.82	11.037	
16,055.0	9,770.2	14,902.0	8,975.3	55.1	49.0	-44.65	-5,972.0	-318.6	1,123.8	1,021.2	102.62	10.951	
16,100.0	9,770.2	14,947.0	8,975.4	55.4	49.3	-44.65	-6,017.0	-319.0	1,123.8	1,020.6	103.27	10.882	
16,150.0	9,770.3	14,997.0	8,975.4	55.7	49.7	-44.65	-6,067.0	-319.4	1,123.8	1,019.8	104.00	10.806	
16,200.0	9,770.3	15,047.0	8,975.4	56.0	50.0	-44.65	-6,117.0	-319.8	1,123.8	1,019.1	104.73	10.731	
16,245.0	9,770.4	15,092.0	8,975.5	56.3	50.3	-44.65	-6,162.0	-320.2	1,123.8	1,018.5	105.38	10.664	
16,300.0	9,770.4	15,147.0	8,975.5	56.7	50.7	-44.65	-6,217.0	-320.7	1,123.8	1,017.7	106.18	10.584	
16,340.0	9,770.4	15,187.0	8,975.5	57.0	51.0	-44.65	-6,257.0	-321.0	1,123.8	1,017.1	106.77	10.526	
16,400.0	9,770.5	15,247.0	8,975.6	57.4	51.5	-44.65	-6,317.0	-321.5	1,123.9	1,016.2	107.64	10.441	
16,435.0	9,770.5	15,282.0	8,975.6	57.6	51.7	-44.65	-6,352.0	-321.8	1,123.9	1,015.7	108.16	10.391	
16,500.0	9,770.5	15,347.0	8,975.6	58.0	52.2	-44.65	-6,417.0	-322.3	1,123.9	1,014.8	109.11	10.301	
16,530.0	9,770.6	15,377.0	8,975.6	58.2	52.4	-44.65	-6,447.0	-322.6	1,123.9	1,014.3	109.55	10.259	
16,600.0	9,770.6	15,447.0	8,975.7	58.7	52.9	-44.65	-6,517.0	-323.1	1,123.9	1,013.3	110.57	10.164	
16,625.0	9,770.6	15,472.0	8,975.7	58.9	53.1	-44.65	-6,542.0	-323.4	1,123.9	1,012.9	110.94	10.131	
16,700.0	9,770.7	15,547.0	8,975.7	59.4	53.6	-44.65	-6,617.0	-324.0	1,123.9	1,011.8	112.04	10.031	
16,720.0	9,770.7	15,567.0	8,975.7	59.5	53.8	-44.65	-6,637.0	-324.1	1,123.9	1,011.6	112.33	10.005	
16,800.0	9,770.8	15,647.0	8,975.8	60.0	54.4	-44.65	-6,717.0	-324.8	1,123.9	1,010.4	113.51	9.902	
16,815.0	9,770.8	15,662.0	8,975.8	60.1	54.5	-44.65	-6,732.0	-324.9	1,123.9	1,010.2	113.73	9.882	
16,900.0	9,770.8	15,747.0	8,975.9	60.7	55.1	-44.65	-6,816.9	-325.6	1,123.9	1,008.9	114.98	9.775	
16,910.0	9,770.8	15,757.0	8,975.9	60.8	55.2	-44.65	-6,826.9	-325.7	1,123.9	1,008.8	115.13	9.762	
17,000.0	9,770.9	15,847.0	8,975.9	61.4	55.8	-44.65	-6,916.9	-326.5	1,123.9	1,007.5	116.45	9.651	
17,005.0	9,770.9	15,852.0	8,975.9	61.4	55.9	-44.65	-6,921.9	-326.5	1,123.9	1,007.4	116.53	9.645	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8432-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum	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)	Separation (usft)	Factor
17,100.0	9,771.0	15,947.0	8,976.0	62.1	56.5	-44.65	-7,016.9	-327.3	1,123.9	1,006.0	117.93	9.531
17,195.0	9,771.0	16,042.0	8,976.0	62.7	57.2	-44.65	-7,111.9	-328.1	1,123.9	1,004.6	119.33	9.419
17,200.0	9,771.0	16,047.0	8,976.0	62.7	57.3	-44.65	-7,116.9	-328.1	1,123.9	1,004.5	119.40	9.413
17,290.0	9,771.1	16,137.0	8,976.1	63.4	57.9	-44.65	-7,206.9	-328.8	1,123.9	1,003.2	120.74	9.309
17,300.0	9,771.1	16,147.0	8,976.1	63.4	58.0	-44.65	-7,216.9	-328.9	1,123.9	1,003.1	120.88	9.298
17,385.0	9,771.2	16,232.0	8,976.1	64.0	58.6	-44.65	-7,301.9	-329.6	1,123.9	1,001.8	122.14	9.202
17,400.0	9,771.2	16,247.0	8,976.2	64.1	58.7	-44.65	-7,316.9	-329.8	1,123.9	1,001.6	122.36	9.185
17,480.0	9,771.2	16,327.0	8,976.2	64.7	59.3	-44.65	-7,396.9	-330.4	1,124.0	1,000.4	123.55	9.097
17,500.0	9,771.3	16,347.0	8,976.2	64.8	59.5	-44.65	-7,416.9	-330.6	1,124.0	1,000.1	123.85	9.075
17,575.0	9,771.3	16,422.0	8,976.3	65.3	60.0	-44.65	-7,491.9	-331.2	1,124.0	999.0	124.96	8.995
17,600.0	9,771.3	16,447.0	8,976.3	65.5	60.2	-44.65	-7,516.9	-331.4	1,124.0	998.6	125.33	8.968
17,670.0	9,771.4	16,517.0	8,976.3	66.0	60.7	-44.65	-7,586.9	-332.0	1,124.0	997.6	126.37	8.894
17,700.0	9,771.4	16,547.0	8,976.3	66.2	60.9	-44.65	-7,616.9	-332.2	1,124.0	997.2	126.82	8.863
17,765.0	9,771.5	16,612.0	8,976.4	66.6	61.4	-44.65	-7,681.9	-332.8	1,124.0	996.2	127.78	8.796
17,800.0	9,771.5	16,647.0	8,976.4	66.9	61.7	-44.65	-7,716.9	-333.1	1,124.0	995.7	128.31	8.760
17,860.0	9,771.5	16,707.0	8,976.4	67.3	62.1	-44.65	-7,776.9	-333.6	1,124.0	994.8	129.20	8.700
17,900.0	9,771.6	16,747.0	8,976.5	67.6	62.4	-44.64	-7,816.9	-333.9	1,124.0	994.2	129.79	8.660
17,955.0	9,771.6	16,802.0	8,976.5	68.0	62.8	-44.64	-7,871.9	-334.3	1,124.0	993.4	130.61	8.605
18,000.0	9,771.6	16,847.0	8,976.5	68.3	63.1	-44.64	-7,916.9	-334.7	1,124.0	992.7	131.28	8.562
18,050.0	9,771.7	16,897.0	8,976.5	68.6	63.5	-44.64	-7,966.9	-335.1	1,124.0	992.0	132.03	8.513
18,100.0	9,771.7	16,947.0	8,976.6	69.0	63.9	-44.64	-8,016.9	-335.5	1,124.0	991.2	132.78	8.465
18,145.0	9,771.7	16,992.0	8,976.6	69.3	64.2	-44.64	-8,061.9	-335.9	1,124.0	990.6	133.45	8.423
18,200.0	9,771.8	17,047.0	8,976.6	69.7	64.6	-44.64	-8,116.9	-336.4	1,124.0	989.8	134.27	8.371
18,240.0	9,771.8	17,087.0	8,976.7	69.9	64.9	-44.64	-8,156.9	-336.7	1,124.0	989.2	134.87	8.334
18,300.0	9,771.8	17,147.0	8,976.7	70.4	65.4	-44.64	-8,216.9	-337.2	1,124.0	988.3	135.76	8.279
18,335.0	9,771.9	17,182.0	8,976.7	70.6	65.6	-44.64	-8,251.9	-337.5	1,124.0	987.7	136.29	8.248
18,400.0	9,771.9	17,247.0	8,976.8	71.1	66.1	-44.64	-8,316.9	-338.0	1,124.0	986.8	137.26	8.189
18,430.0	9,771.9	17,277.0	8,976.8	71.3	66.3	-44.64	-8,346.9	-338.3	1,124.0	986.3	137.71	8.162
18,500.0	9,772.0	17,347.0	8,976.8	71.8	66.8	-44.64	-8,416.9	-338.8	1,124.0	985.3	138.76	8.101
18,525.0	9,772.0	17,372.0	8,976.8	71.9	67.0	-44.64	-8,441.9	-339.1	1,124.0	984.9	139.13	8.079
18,600.0	9,772.1	17,447.0	8,976.9	72.5	67.6	-44.64	-8,516.9	-339.7	1,124.1	983.8	140.25	8.014
18,620.0	9,772.1	17,467.0	8,976.9	72.6	67.7	-44.64	-8,536.9	-339.8	1,124.1	983.5	140.55	7.997
18,700.0	9,772.1	17,547.0	8,976.9	73.2	68.3	-44.64	-8,616.9	-340.5	1,124.1	982.3	141.75	7.930
18,715.0	9,772.1	17,562.0	8,976.9	73.3	68.4	-44.64	-8,631.9	-340.6	1,124.1	982.1	141.98	7.917
18,800.0	9,772.2	17,647.0	8,977.0	73.9	69.1	-44.64	-8,716.9	-341.3	1,124.1	980.8	143.25	7.847
18,810.0	9,772.2	17,657.0	8,977.0	74.0	69.1	-44.64	-8,726.9	-341.4	1,124.1	980.7	143.40	7.839
18,900.0	9,772.3	17,747.0	8,977.1	74.6	69.8	-44.64	-8,816.9	-342.1	1,124.1	979.3	144.75	7.765
18,905.0	9,772.3	17,752.0	8,977.1	74.6	69.8	-44.64	-8,821.9	-342.2	1,124.1	979.3	144.83	7.761
19,000.0	9,772.3	17,847.0	8,977.1	75.3	70.5	-44.64	-8,916.9	-343.0	1,124.1	977.8	146.26	7.686
19,095.0	9,772.4	17,942.0	8,977.2	76.0	71.2	-44.64	-9,011.9	-343.8	1,124.1	976.4	147.69	7.611
19,100.0	9,772.4	17,947.0	8,977.2	76.0	71.3	-44.64	-9,016.9	-343.8	1,124.1	976.3	147.76	7.608
19,190.0	9,772.5	18,037.0	8,977.2	76.7	72.0	-44.64	-9,106.9	-344.5	1,124.1	975.0	149.11	7.539
19,200.0	9,772.5	18,047.0	8,977.2	76.7	72.0	-44.64	-9,116.9	-344.6	1,124.1	974.8	149.26	7.531
19,285.0	9,772.6	18,132.0	8,977.3	77.3	72.7	-44.64	-9,201.9	-345.3	1,124.1	973.6	150.54	7.467
19,300.0	9,772.6	18,147.0	8,977.3	77.4	72.8	-44.64	-9,216.9	-345.5	1,124.1	973.4	150.77	7.456
19,380.0	9,772.6	18,227.0	8,977.3	78.0	73.4	-44.64	-9,296.9	-346.1	1,124.1	972.2	151.97	7.397
19,400.0	9,772.6	18,247.0	8,977.4	78.2	73.5	-44.64	-9,316.9	-346.3	1,124.1	971.9	152.28	7.382
19,475.0	9,772.7	18,322.0	8,977.4	78.7	74.1	-44.64	-9,391.9	-346.9	1,124.1	970.7	153.41	7.328
19,500.0	9,772.7	18,347.0	8,977.4	78.9	74.3	-44.64	-9,416.9	-347.1	1,124.1	970.4	153.78	7.310
19,570.0	9,772.8	18,417.0	8,977.5	79.4	74.8	-44.64	-9,486.9	-347.7	1,124.1	969.3	154.84	7.260
19,600.0	9,772.8	18,447.0	8,977.5	79.6	75.0	-44.64	-9,516.9	-347.9	1,124.1	968.9	155.29	7.239

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8432-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum	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)	Separation Factor	
19,665.0	9,772.8	18,512.0	8,977.5	80.0	75.5	-44.64	-9,581.9	-348.5	1,124.2	967.9	156.27	7.194
19,700.0	9,772.9	18,547.0	8,977.5	80.3	75.8	-44.64	-9,616.9	-348.8	1,124.2	967.4	156.80	7.169
19,760.0	9,772.9	18,607.0	8,977.6	80.7	76.2	-44.64	-9,676.8	-349.3	1,124.2	966.5	157.71	7.128
19,800.0	9,772.9	18,647.0	8,977.6	81.0	76.5	-44.64	-9,716.8	-349.6	1,124.2	965.9	158.31	7.101
19,855.0	9,773.0	18,702.0	8,977.6	81.4	76.9	-44.64	-9,771.8	-350.0	1,124.2	965.0	159.14	7.064
19,900.0	9,773.0	18,747.0	8,977.7	81.7	77.2	-44.64	-9,816.8	-350.4	1,124.2	964.4	159.82	7.034
19,950.0	9,773.0	18,797.0	8,977.7	82.1	77.6	-44.64	-9,866.8	-350.8	1,124.2	963.6	160.57	7.001
20,000.0	9,773.1	18,847.0	8,977.7	82.5	78.0	-44.64	-9,916.8	-351.2	1,124.2	962.9	161.33	6.968
20,045.0	9,773.1	18,892.0	8,977.7	82.8	78.3	-44.64	-9,961.8	-351.6	1,124.2	962.2	162.01	6.939
20,100.0	9,773.1	18,947.0	8,977.8	83.2	78.7	-44.64	-10,016.8	-352.1	1,124.2	961.4	162.84	6.904
20,140.0	9,773.2	18,987.0	8,977.8	83.5	79.0	-44.64	-10,056.8	-352.4	1,124.2	960.8	163.45	6.878
20,200.0	9,773.2	19,047.0	8,977.8	83.9	79.5	-44.64	-10,116.8	-352.9	1,124.2	959.9	164.35	6.840
20,235.0	9,773.2	19,082.0	8,977.9	84.1	79.7	-44.64	-10,151.8	-353.2	1,124.2	959.3	164.88	6.818
20,300.0	9,773.3	19,147.0	8,977.9	84.6	80.2	-44.64	-10,216.8	-353.7	1,124.2	958.3	165.87	6.778
20,330.0	9,773.3	19,177.0	8,977.9	84.8	80.5	-44.63	-10,246.8	-354.0	1,124.2	957.9	166.32	6.759
20,400.0	9,773.4	19,247.0	8,978.0	85.3	81.0	-44.63	-10,316.8	-354.5	1,124.2	956.8	167.38	6.717
20,425.0	9,773.4	19,272.0	8,978.0	85.5	81.2	-44.63	-10,341.8	-354.7	1,124.2	956.5	167.76	6.701
20,500.0	9,773.4	19,347.0	8,978.0	86.1	81.7	-44.63	-10,416.8	-355.4	1,124.2	955.3	168.90	6.656
20,520.0	9,773.4	19,367.0	8,978.0	86.2	81.9	-44.63	-10,436.8	-355.5	1,124.2	955.0	169.20	6.644
20,600.0	9,773.5	19,447.0	8,978.1	86.8	82.5	-44.63	-10,516.8	-356.2	1,124.2	953.8	170.41	6.597
20,615.0	9,773.5	19,462.0	8,978.1	86.9	82.6	-44.63	-10,531.8	-356.3	1,124.2	953.6	170.64	6.588
20,700.0	9,773.6	19,547.0	8,978.1	87.5	83.2	-44.63	-10,616.8	-357.0	1,124.3	952.3	171.93	6.539
20,710.0	9,773.6	19,557.0	8,978.1	87.6	83.3	-44.63	-10,626.8	-357.1	1,124.3	952.2	172.08	6.533
20,800.0	9,773.6	19,647.0	8,978.2	88.2	84.0	-44.63	-10,716.8	-357.8	1,124.3	950.8	173.44	6.482
20,805.0	9,773.7	19,652.0	8,978.2	88.3	84.0	-44.63	-10,721.8	-357.9	1,124.3	950.7	173.52	6.479
20,900.0	9,773.7	19,747.0	8,978.3	89.0	84.7	-44.63	-10,816.8	-358.7	1,124.3	949.3	174.96	6.426
20,995.0	9,773.8	19,842.0	8,978.3	89.6	85.4	-44.63	-10,911.8	-359.5	1,124.3	947.9	176.40	6.373
21,000.0	9,773.8	19,847.0	8,978.3	89.7	85.5	-44.63	-10,916.8	-359.5	1,124.3	947.8	176.48	6.371
21,090.0	9,773.9	19,937.0	8,978.4	90.3	86.1	-44.63	-11,006.8	-360.2	1,124.3	946.4	177.85	6.322
21,100.0	9,773.9	19,947.0	8,978.4	90.4	86.2	-44.63	-11,016.8	-360.3	1,124.3	946.3	178.00	6.316
21,185.0	9,773.9	20,032.0	8,978.4	91.0	86.9	-44.63	-11,101.8	-361.0	1,124.3	945.0	179.29	6.271
21,200.0	9,773.9	20,047.0	8,978.4	91.1	87.0	-44.63	-11,116.8	-361.2	1,124.3	944.8	179.52	6.263
21,280.0	9,774.0	20,127.0	8,978.5	91.7	87.6	-44.63	-11,196.8	-361.8	1,124.3	943.6	180.73	6.221
21,300.0	9,774.0	20,147.0	8,978.5	91.9	87.7	-44.63	-11,216.8	-362.0	1,124.3	943.3	181.04	6.210
21,375.0	9,774.1	20,222.0	8,978.5	92.4	88.3	-44.63	-11,291.8	-362.6	1,124.3	942.1	182.18	6.172
21,400.0	9,774.1	20,247.0	8,978.6	92.6	88.5	-44.63	-11,316.8	-362.8	1,124.3	941.8	182.56	6.159
21,470.0	9,774.1	20,317.0	8,978.6	93.1	89.0	-44.63	-11,386.8	-363.4	1,124.3	940.7	183.62	6.123
21,500.0	9,774.2	20,347.0	8,978.6	93.3	89.2	-44.63	-11,416.8	-363.6	1,124.3	940.2	184.08	6.108
21,565.0	9,774.2	20,412.0	8,978.7	93.8	89.7	-44.63	-11,481.8	-364.2	1,124.3	939.3	185.06	6.075
21,600.0	9,774.2	20,447.0	8,978.7	94.1	90.0	-44.63	-11,516.8	-364.5	1,124.3	938.7	185.60	6.058
21,660.0	9,774.3	20,507.0	8,978.7	94.5	90.4	-44.63	-11,576.8	-365.0	1,124.3	937.8	186.51	6.028
21,700.0	9,774.3	20,547.0	8,978.7	94.8	90.7	-44.63	-11,616.8	-365.3	1,124.3	937.2	187.12	6.009
21,755.0	9,774.3	20,602.0	8,978.8	95.2	91.1	-44.63	-11,671.8	-365.7	1,124.3	936.4	187.96	5.982
21,800.0	9,774.4	20,647.0	8,978.8	95.5	91.5	-44.63	-11,716.8	-366.1	1,124.4	935.7	188.64	5.960
21,850.0	9,774.4	20,697.0	8,978.8	95.9	91.9	-44.63	-11,766.8	-366.5	1,124.4	935.0	189.40	5.936
21,900.0	9,774.4	20,747.0	8,978.9	96.2	92.2	-44.63	-11,816.8	-366.9	1,124.4	934.2	190.16	5.913
21,945.0	9,774.5	20,792.0	8,978.9	96.6	92.6	-44.63	-11,861.8	-367.3	1,124.4	933.5	190.85	5.891
22,000.0	9,774.5	20,847.0	8,978.9	97.0	93.0	-44.63	-11,916.8	-367.8	1,124.4	932.7	191.69	5.866
22,040.0	9,774.5	20,887.0	8,978.9	97.3	93.3	-44.63	-11,956.8	-368.1	1,124.4	932.1	192.29	5.847
22,100.0	9,774.6	20,947.0	8,979.0	97.7	93.7	-44.63	-12,016.8	-368.6	1,124.4	931.2	193.21	5.820
22,135.0	9,774.6	20,982.0	8,979.0	98.0	94.0	-44.63	-12,051.8	-368.9	1,124.4	930.6	193.74	5.804

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8432-r.5 MWD+IFR1+MS									Rule Assigned:				Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance					
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	
22,200.0	9,774.7	21,047.0	8,979.0	98.4	94.5	-44.63	-12,116.8	-369.4	1,124.4	929.7	194.73	5.774		
22,230.0	9,774.7	21,077.0	8,979.1	98.7	94.7	-44.63	-12,146.8	-369.7	1,124.4	929.2	195.19	5.761		
22,300.0	9,774.7	21,147.0	8,979.1	99.2	95.2	-44.63	-12,216.8	-370.2	1,124.4	928.1	196.26	5.729		
22,325.0	9,774.8	21,172.0	8,979.1	99.4	95.4	-44.63	-12,241.8	-370.4	1,124.4	927.8	196.64	5.718		
22,400.0	9,774.8	21,247.0	8,979.2	99.9	96.0	-44.63	-12,316.8	-371.1	1,124.4	926.6	197.78	5.685		
22,420.0	9,774.8	21,267.0	8,979.2	100.1	96.1	-44.63	-12,336.8	-371.2	1,124.4	926.3	198.09	5.676		
22,500.0	9,774.9	21,347.0	8,979.2	100.6	96.7	-44.63	-12,416.8	-371.9	1,124.4	925.1	199.31	5.642		
22,515.0	9,774.9	21,362.0	8,979.2	100.8	96.9	-44.63	-12,431.8	-372.0	1,124.4	924.9	199.54	5.635		
22,600.0	9,775.0	21,447.0	8,979.3	101.4	97.5	-44.63	-12,516.8	-372.7	1,124.4	923.6	200.83	5.599		
22,610.0	9,775.0	21,457.0	8,979.3	101.5	97.6	-44.63	-12,526.8	-372.8	1,124.4	923.4	200.98	5.595		
22,700.0	9,775.0	21,547.0	8,979.3	102.1	98.3	-44.63	-12,616.7	-373.5	1,124.4	922.1	202.36	5.557		
22,705.0	9,775.0	21,552.0	8,979.3	102.2	98.3	-44.63	-12,621.7	-373.6	1,124.4	922.0	202.43	5.555		
22,800.0	9,775.1	21,647.0	8,979.4	102.9	99.0	-44.62	-12,716.7	-374.4	1,124.4	920.6	203.88	5.515		
22,895.0	9,775.2	21,742.0	8,979.5	103.6	99.7	-44.62	-12,811.7	-375.2	1,124.5	919.1	205.33	5.476		
22,900.0	9,775.2	21,747.0	8,979.5	103.6	99.8	-44.62	-12,816.7	-375.2	1,124.5	919.0	205.41	5.474		
22,990.0	9,775.2	21,837.0	8,979.5	104.3	100.4	-44.62	-12,906.7	-375.9	1,124.5	917.7	206.78	5.438		
23,000.0	9,775.2	21,847.0	8,979.5	104.3	100.5	-44.62	-12,916.7	-376.0	1,124.5	917.5	206.94	5.434		
23,085.0	9,775.3	21,932.0	8,979.6	105.0	101.2	-44.62	-13,001.7	-376.7	1,124.5	916.2	208.24	5.400		
23,100.0	9,775.3	21,947.0	8,979.6	105.1	101.3	-44.62	-13,016.7	-376.8	1,124.5	916.0	208.46	5.394		
23,180.0	9,775.4	22,027.0	8,979.6	105.7	101.9	-44.62	-13,096.7	-377.5	1,124.5	914.8	209.69	5.363		
23,200.0	9,775.4	22,047.0	8,979.6	105.8	102.0	-44.62	-13,116.7	-377.7	1,124.5	914.5	209.99	5.355		
23,275.0	9,775.4	22,122.0	8,979.7	106.4	102.6	-44.62	-13,191.7	-378.3	1,124.5	913.4	211.14	5.326		
23,300.0	9,775.5	22,147.0	8,979.7	106.5	102.8	-44.62	-13,216.7	-378.5	1,124.5	913.0	211.52	5.316		
23,370.0	9,775.5	22,217.0	8,979.7	107.1	103.3	-44.62	-13,286.7	-379.1	1,124.5	911.9	212.59	5.290		
23,400.0	9,775.5	22,247.0	8,979.8	107.3	103.5	-44.62	-13,316.7	-379.3	1,124.5	911.5	213.05	5.278		
23,465.0	9,775.6	22,312.0	8,979.8	107.8	104.0	-44.62	-13,381.7	-379.9	1,124.5	910.5	214.04	5.254		
23,500.0	9,775.6	22,347.0	8,979.8	108.0	104.3	-44.62	-13,416.7	-380.2	1,124.5	909.9	214.58	5.241		
23,560.0	9,775.6	22,407.0	8,979.9	108.5	104.7	-44.62	-13,476.7	-380.6	1,124.5	909.0	215.49	5.218		
23,600.0	9,775.7	22,447.0	8,979.9	108.8	105.0	-44.62	-13,516.7	-381.0	1,124.5	908.4	216.11	5.204		
23,655.0	9,775.7	22,502.0	8,979.9	109.2	105.5	-44.62	-13,571.7	-381.4	1,124.5	907.6	216.95	5.183		
23,700.0	9,775.7	22,547.0	8,979.9	109.5	105.8	-44.62	-13,616.7	-381.8	1,124.5	906.9	217.63	5.167		
23,750.0	9,775.8	22,597.0	8,980.0	109.9	106.2	-44.62	-13,666.7	-382.2	1,124.5	906.1	218.40	5.149		
23,800.0	9,775.8	22,647.0	8,980.0	110.2	106.5	-44.62	-13,716.7	-382.6	1,124.5	905.4	219.16	5.131		
23,845.0	9,775.9	22,692.0	8,980.0	110.6	106.9	-44.62	-13,761.7	-383.0	1,124.5	904.7	219.85	5.115		
23,900.0	9,775.9	22,747.0	8,980.1	111.0	107.3	-44.62	-13,816.7	-383.5	1,124.5	903.9	220.69	5.096		
23,940.0	9,775.9	22,787.0	8,980.1	111.3	107.6	-44.62	-13,856.7	-383.8	1,124.6	903.2	221.31	5.081		
24,000.0	9,776.0	22,847.0	8,980.1	111.7	108.1	-44.62	-13,916.7	-384.3	1,124.6	902.3	222.22	5.060		
24,035.0	9,776.0	22,882.0	8,980.1	112.0	108.3	-44.62	-13,951.7	-384.6	1,124.6	901.8	222.76	5.048		
24,100.0	9,776.0	22,947.0	8,980.2	112.5	108.8	-44.62	-14,016.7	-385.1	1,124.6	900.8	223.75	5.026		
24,130.0	9,776.1	22,977.0	8,980.2	112.7	109.0	-44.62	-14,046.7	-385.4	1,124.6	900.4	224.21	5.016		
24,200.0	9,776.1	23,047.0	8,980.2	113.2	109.6	-44.62	-14,116.7	-385.9	1,124.6	899.3	225.28	4.992		
24,225.0	9,776.1	23,072.0	8,980.3	113.4	109.8	-44.62	-14,141.7	-386.1	1,124.6	898.9	225.67	4.983		
24,300.0	9,776.2	23,147.0	8,980.3	113.9	110.3	-44.62	-14,216.7	-386.8	1,124.6	897.8	226.82	4.958		
24,320.0	9,776.2	23,167.0	8,980.3	114.1	110.5	-44.62	-14,236.7	-386.9	1,124.6	897.5	227.12	4.951		
24,400.0	9,776.3	23,247.0	8,980.4	114.7	111.1	-44.62	-14,316.7	-387.6	1,124.6	896.2	228.35	4.925		
24,415.0	9,776.3	23,262.0	8,980.4	114.8	111.2	-44.62	-14,331.7	-387.7	1,124.6	896.0	228.58	4.920		
24,500.0	9,776.3	23,347.0	8,980.4	115.4	111.8	-44.62	-14,416.7	-388.4	1,124.6	894.7	229.88	4.892		
24,510.0	9,776.3	23,357.0	8,980.4	115.5	111.9	-44.62	-14,426.7	-388.5	1,124.6	894.6	230.03	4.889		
24,600.0	9,776.4	23,447.0	8,980.5	116.2	112.6	-44.62	-14,516.7	-389.2	1,124.6	893.2	231.41	4.860		
24,605.0	9,776.4	23,452.0	8,980.5	116.2	112.6	-44.62	-14,521.7	-389.3	1,124.6	893.1	231.49	4.858		
24,700.0	9,776.5	23,547.0	8,980.5	116.9	113.3	-44.62	-14,616.7	-390.1	1,124.6	891.7	232.94	4.828		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design:	FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1										Offset Site Error:	0.0 usft
Survey Program:	0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8432-r.5 MWD+IFR1+MS										Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Rule Assigned:		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)	Separation Factor
24,795.0	9,776.5	23,642.0	8,980.6	117.6	114.1	-44.62	-14,711.7	-390.9	1,124.6	890.2	234.40	4.798
24,800.0	9,776.5	23,647.0	8,980.6	117.6	114.1	-44.62	-14,716.7	-390.9	1,124.6	890.2	234.47	4.796
24,890.0	9,776.6	23,737.0	8,980.7	118.3	114.8	-44.62	-14,806.7	-391.6	1,124.6	888.8	235.85	4.768
24,900.0	9,776.6	23,747.0	8,980.7	118.4	114.9	-44.62	-14,816.7	-391.7	1,124.6	888.6	236.01	4.765
24,985.0	9,776.7	23,832.0	8,980.7	119.0	115.5	-44.62	-14,901.7	-392.4	1,124.6	887.3	237.31	4.739
25,000.0	9,776.7	23,847.0	8,980.7	119.1	115.6	-44.62	-14,916.7	-392.5	1,124.7	887.1	237.54	4.735
25,080.0	9,776.7	23,927.0	8,980.8	119.7	116.2	-44.62	-14,996.7	-393.2	1,124.7	885.9	238.77	4.710
25,100.0	9,776.8	23,947.0	8,980.8	119.9	116.4	-44.62	-15,016.7	-393.4	1,124.7	885.6	239.07	4.704
25,175.0	9,776.8	24,022.0	8,980.8	120.4	116.9	-44.62	-15,091.7	-394.0	1,124.7	884.4	240.22	4.682
25,200.0	9,776.8	24,047.0	8,980.8	120.6	117.1	-44.62	-15,116.7	-394.2	1,124.7	884.1	240.61	4.674
25,270.0	9,776.9	24,117.0	8,980.9	121.1	117.7	-44.61	-15,186.7	-394.8	1,124.7	883.0	241.68	4.654
25,300.6	9,776.9	24,147.7	8,980.9	121.4	117.9	-44.61	-15,217.3	-395.0	1,124.7	882.5	242.15	4.645
25,365.0	9,777.0	24,212.0	8,980.9	121.8	118.4	-44.61	-15,281.7	-395.6	1,124.7	881.5	243.13	4.626
25,400.0	9,777.0	24,247.0	8,981.0	122.1	118.6	-44.61	-15,316.7	-395.8	1,124.7	881.0	243.67	4.616
25,430.7	9,777.0	24,277.7	8,981.0	122.3	118.9	-44.61	-15,347.3	-396.1	1,124.7	880.5	244.14	4.607 SF

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8483-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	4.6	4.6	3.0	3.0	167.80	-149.4	32.3	152.9				
95.0	95.0	99.6	99.6	3.0	3.0	167.80	-149.4	32.3	152.9	146.8	6.04	25.314	
100.0	100.0	104.6	104.6	3.0	3.0	167.80	-149.4	32.3	152.9	146.8	6.04	25.287	
190.0	190.0	194.6	194.6	3.1	3.1	167.80	-149.4	32.3	152.9	146.6	6.27	24.394	
200.0	200.0	204.6	204.6	3.1	3.2	167.80	-149.4	32.3	152.9	146.6	6.30	24.270	
285.0	285.0	289.6	289.6	3.3	3.3	167.80	-149.4	32.3	152.9	146.3	6.51	23.490	
300.0	300.0	304.6	304.6	3.3	3.3	167.80	-149.4	32.3	152.9	146.3	6.55	23.344	
380.0	380.0	384.6	384.6	3.4	3.4	167.80	-149.4	32.3	152.9	146.1	6.74	22.668	
400.0	400.0	404.6	404.6	3.4	3.4	167.80	-149.4	32.3	152.9	146.1	6.80	22.495	
475.0	475.0	479.6	479.6	3.5	3.5	167.80	-149.4	32.3	152.9	145.9	6.98	21.908	
500.0	500.0	504.6	504.6	3.5	3.5	167.80	-149.4	32.3	152.9	145.8	7.04	21.711	
570.0	570.0	574.6	574.6	3.6	3.6	167.80	-149.4	32.3	152.9	145.6	7.21	21.202	
600.0	600.0	604.6	604.6	3.6	3.6	167.80	-149.4	32.3	152.9	145.6	7.28	20.984	
665.0	665.0	669.6	669.6	3.7	3.7	167.80	-149.4	32.3	152.9	145.4	7.44	20.545	
700.0	700.0	704.6	704.6	3.8	3.8	167.80	-149.4	32.3	152.9	145.3	7.53	20.309	
760.0	760.0	764.6	764.6	3.8	3.8	167.80	-149.4	32.3	152.9	145.2	7.67	19.930	
800.0	800.0	804.6	804.6	3.9	3.9	167.80	-149.4	32.3	152.9	145.1	7.77	19.680	
855.0	855.0	859.6	859.6	4.0	4.0	167.80	-149.4	32.3	152.9	145.0	7.90	19.354	
900.0	900.0	904.6	904.6	4.0	4.0	167.80	-149.4	32.3	152.9	144.8	8.01	19.091	
950.0	950.0	954.6	954.6	4.1	4.1	167.80	-149.4	32.3	152.9	144.7	8.12	18.814	
1,000.0	1,000.0	1,004.6	1,004.6	4.1	4.1	167.80	-149.4	32.3	152.9	144.6	8.24	18.540	
1,045.0	1,045.0	1,049.6	1,049.6	4.2	4.2	167.80	-149.4	32.3	152.9	144.5	8.35	18.304	
1,100.0	1,100.0	1,104.6	1,104.6	4.2	4.3	167.80	-149.4	32.3	152.9	144.4	8.48	18.021	
1,140.0	1,140.0	1,144.6	1,144.6	4.3	4.3	167.80	-149.4	32.3	152.9	144.3	8.58	17.824	
1,200.0	1,200.0	1,204.6	1,204.6	4.4	4.4	167.80	-149.4	32.3	152.9	144.1	8.72	17.533	
1,235.0	1,235.0	1,239.6	1,239.6	4.4	4.4	167.80	-149.4	32.3	152.9	144.1	8.80	17.370	
1,300.0	1,300.0	1,304.6	1,304.6	4.5	4.5	167.80	-149.4	32.3	152.9	143.9	8.95	17.072	
1,330.0	1,330.0	1,334.6	1,334.6	4.5	4.5	167.80	-149.4	32.3	152.9	143.8	9.02	16.940	
1,400.0	1,400.0	1,404.6	1,404.6	4.6	4.6	167.80	-149.4	32.3	152.9	143.7	9.19	16.636	
1,425.0	1,425.0	1,429.6	1,429.6	4.6	4.6	167.80	-149.4	32.3	152.9	143.6	9.25	16.532	
1,500.0	1,500.0	1,504.7	1,504.7	4.7	4.7	167.80	-149.4	32.3	152.8	143.4	9.42	16.223	
1,520.0	1,520.0	1,525.4	1,525.4	4.7	4.7	-124.65	-149.4	32.2	152.8	143.4	9.47	16.139	
1,600.0	1,600.0	1,607.8	1,607.8	4.8	4.9	-124.59	-148.7	30.4	152.7	143.1	9.69	15.767	
1,615.0	1,615.0	1,623.3	1,623.2	4.9	4.9	-124.58	-148.4	29.8	152.7	143.0	9.74	15.676	
1,700.0	1,699.8	1,710.8	1,710.7	5.0	5.1	-124.47	-146.5	25.1	152.6	142.6	10.06	15.165	
1,710.0	1,709.8	1,721.1	1,720.9	5.1	5.1	-124.46	-146.3	24.4	152.6	142.5	10.10	15.107	
1,800.0	1,799.5	1,813.9	1,813.2	5.3	5.3	-124.31	-143.1	16.3	152.5	142.1	10.45	14.599	
1,805.0	1,804.4	1,819.0	1,818.4	5.3	5.3	-124.30	-142.9	15.8	152.5	142.0	10.47	14.571	
1,900.0	1,898.7	1,916.9	1,915.4	5.6	5.6	-124.10	-138.2	4.2	152.4	141.5	10.84	14.059	
1,995.0	1,992.5	2,014.7	2,012.0	5.9	5.9	-123.86	-132.4	-10.6	152.2	141.0	11.22	13.566	
2,000.0	1,997.5	2,019.9	2,017.0	5.9	6.0	-123.84	-132.1	-11.4	152.2	141.0	11.24	13.540	
2,090.0	2,085.8	2,112.5	2,107.9	6.2	6.3	-123.57	-125.4	-28.3	152.0	140.4	11.62	13.087	
2,100.0	2,095.6	2,122.8	2,117.9	6.2	6.3	-123.54	-124.5	-30.4	152.0	140.4	11.66	13.038	
2,184.5	2,178.0	2,209.6	2,202.3	6.6	6.6	-123.26	-117.2	-49.0	151.9	139.9	12.03	12.625 CC	
2,185.0	2,178.5	2,210.0	2,202.8	6.6	6.6	-123.26	-117.1	-49.1	151.9	139.9	12.03	12.622	
2,199.9	2,193.0	2,225.0	2,217.3	6.6	6.7	-123.23	-115.8	-52.4	151.9	139.8	12.10	12.555	
2,280.0	2,270.7	2,305.0	2,295.0	6.9	6.9	-123.17	-108.7	-70.4	152.1	139.7	12.45	12.222	
2,300.0	2,290.1	2,325.0	2,314.4	6.9	7.0	-123.16	-106.9	-74.9	152.2	139.7	12.54	12.139	
2,375.0	2,362.9	2,400.0	2,387.2	7.2	7.2	-123.10	-100.2	-91.8	152.4	139.5	12.88	11.832	
2,400.0	2,387.1	2,425.0	2,411.4	7.3	7.3	-123.08	-98.0	-97.4	152.5	139.5	13.00	11.731	
2,470.0	2,455.0	2,495.0	2,479.3	7.5	7.6	-123.03	-91.7	-113.2	152.7	139.4	13.33	11.452	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1											Offset Site Error:	0.0 usft	
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8483-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft	
Reference	Offset	Semi Major Axis	Distance	Rule Assigned:									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
2,500.0	2,484.1	2,525.0	2,508.4	7.6	7.7	-123.01	-89.1	-119.9	152.8	139.3	13.48	11.335	
2,565.0	2,547.2	2,590.0	2,571.5	7.8	7.9	-122.96	-83.3	-134.5	153.0	139.2	13.80	11.084	
2,600.0	2,581.2	2,625.0	2,605.5	8.0	8.1	-122.94	-80.1	-142.4	153.1	139.1	13.98	10.952	
2,660.0	2,639.4	2,685.0	2,663.7	8.2	8.3	-122.89	-74.8	-155.9	153.3	139.0	14.29	10.729	
2,700.0	2,678.2	2,725.0	2,702.5	8.3	8.4	-122.86	-71.2	-164.9	153.4	138.9	14.49	10.584	
2,755.0	2,731.6	2,780.0	2,755.9	8.5	8.6	-122.82	-66.3	-177.3	153.6	138.8	14.78	10.388	
2,800.0	2,775.2	2,825.0	2,799.5	8.7	8.8	-122.79	-62.3	-187.4	153.7	138.7	15.02	10.232	
2,850.0	2,823.8	2,875.0	2,848.0	8.9	9.0	-122.75	-57.9	-198.7	153.8	138.5	15.29	10.061	
2,900.0	2,872.3	2,925.0	2,896.6	9.1	9.2	-122.72	-53.4	-209.9	154.0	138.4	15.56	9.896	
2,945.0	2,915.9	2,970.0	2,940.2	9.3	9.4	-122.68	-49.4	-220.0	154.1	138.3	15.81	9.749	
3,000.0	2,969.3	3,025.0	2,993.6	9.5	9.6	-122.64	-44.5	-232.4	154.3	138.2	16.11	9.576	
3,040.0	3,008.1	3,065.0	3,032.4	9.7	9.8	-122.61	-40.9	-241.4	154.4	138.1	16.34	9.452	
3,100.0	3,066.3	3,125.0	3,090.6	9.9	10.0	-122.57	-35.6	-254.9	154.6	137.9	16.67	9.271	
3,135.0	3,100.3	3,160.0	3,124.6	10.1	10.2	-122.54	-32.4	-262.8	154.7	137.8	16.87	9.168	
3,200.0	3,163.4	3,225.0	3,187.6	10.4	10.5	-122.50	-26.6	-277.4	154.9	137.6	17.24	8.982	
3,230.0	3,192.5	3,255.0	3,216.7	10.5	10.6	-122.48	-24.0	-284.1	155.0	137.6	17.42	8.898	
3,300.0	3,260.4	3,325.0	3,284.7	10.8	10.9	-122.42	-17.7	-299.9	155.2	137.4	17.82	8.708	
3,325.0	3,284.6	3,350.0	3,308.9	10.9	11.0	-122.41	-15.5	-305.5	155.3	137.3	17.97	8.642	
3,400.0	3,357.4	3,425.0	3,381.7	11.2	11.3	-122.35	-8.8	-322.4	155.5	137.1	18.40	8.448	
3,420.0	3,376.8	3,445.0	3,401.1	11.3	11.4	-122.34	-7.0	-326.9	155.5	137.0	18.52	8.398	
3,500.0	3,454.4	3,525.0	3,478.7	11.6	11.8	-122.28	0.1	-344.9	155.8	136.8	18.99	8.202	
3,515.0	3,469.0	3,540.0	3,493.3	11.7	11.8	-122.27	1.4	-348.2	155.8	136.7	19.08	8.166	
3,600.0	3,551.5	3,625.0	3,575.7	12.1	12.2	-122.21	9.0	-367.4	156.1	136.5	19.59	7.968	
3,610.0	3,561.2	3,635.0	3,585.5	12.1	12.2	-122.20	9.9	-369.6	156.1	136.5	19.65	7.945	
3,700.0	3,648.5	3,725.0	3,672.8	12.5	12.6	-122.14	17.9	-389.9	156.4	136.2	20.19	7.746	
3,705.0	3,653.4	3,730.0	3,677.6	12.6	12.7	-122.14	18.4	-391.0	156.4	136.2	20.22	7.735	
3,800.0	3,745.5	3,825.0	3,769.8	13.0	13.1	-122.07	26.8	-412.3	156.7	135.9	20.79	7.535	
3,895.0	3,837.7	3,920.0	3,862.0	13.4	13.5	-122.00	35.3	-433.7	157.0	135.6	21.37	7.345	
3,900.0	3,842.6	3,925.0	3,866.8	13.4	13.5	-122.00	35.8	-434.8	157.0	135.6	21.40	7.335	
3,990.0	3,929.9	4,015.0	3,954.2	13.8	14.0	-121.93	43.8	-455.1	157.2	135.3	21.95	7.163	
4,000.0	3,939.6	4,025.0	3,963.9	13.9	14.0	-121.93	44.7	-457.3	157.3	135.3	22.01	7.145	
4,085.0	4,022.1	4,110.0	4,046.3	14.3	14.4	-121.87	52.3	-476.5	157.5	135.0	22.54	6.990	
4,100.0	4,036.6	4,125.0	4,060.9	14.3	14.5	-121.86	53.6	-479.8	157.6	134.9	22.63	6.964	
4,180.0	4,114.3	4,205.0	4,138.5	14.7	14.8	-121.80	60.7	-497.8	157.8	134.7	23.12	6.826	
4,200.0	4,133.7	4,225.0	4,157.9	14.8	14.9	-121.79	62.5	-502.3	157.9	134.6	23.24	6.792	
4,275.0	4,206.4	4,300.0	4,230.7	15.1	15.3	-121.74	69.2	-519.2	158.1	134.4	23.71	6.668	
4,300.0	4,230.7	4,325.0	4,254.9	15.3	15.4	-121.72	71.4	-524.8	158.2	134.3	23.86	6.628	
4,370.0	4,298.6	4,395.0	4,322.9	15.6	15.7	-121.67	77.7	-540.6	158.4	134.1	24.30	6.518	
4,400.0	4,327.7	4,425.0	4,352.0	15.7	15.8	-121.65	80.3	-547.3	158.5	134.0	24.49	6.472	
4,465.0	4,390.8	4,490.0	4,415.0	16.0	16.1	-121.60	86.1	-561.9	158.7	133.8	24.89	6.375	
4,500.0	4,424.7	4,525.0	4,449.0	16.2	16.3	-121.58	89.3	-569.8	158.8	133.7	25.11	6.324	
4,560.0	4,483.0	4,585.0	4,507.2	16.5	16.6	-121.54	94.6	-583.3	159.0	133.5	25.48	6.238	
4,600.0	4,521.8	4,625.0	4,546.0	16.6	16.8	-121.51	98.2	-592.3	159.1	133.4	25.72	6.184	
4,655.0	4,575.1	4,679.4	4,598.8	16.9	17.0	-121.53	103.0	-604.4	159.3	133.3	26.07	6.113 ES	
4,700.0	4,618.8	4,723.8	4,642.0	17.1	17.2	-121.66	106.7	-613.9	159.7	133.4	26.37	6.057	
4,750.0	4,667.3	4,773.0	4,690.0	17.4	17.4	-121.92	110.8	-624.1	160.4	133.7	26.75	5.996	
4,800.0	4,715.8	4,822.3	4,738.1	17.6	17.7	-122.31	114.7	-633.9	161.3	134.1	27.16	5.939	
4,845.0	4,759.5	4,866.6	4,781.5	17.8	17.9	-122.77	118.0	-642.4	162.3	134.7	27.55	5.892	
4,900.0	4,812.9	4,920.7	4,834.6	18.1	18.1	-123.46	122.0	-652.4	163.8	135.7	28.06	5.838	
4,940.0	4,851.7	4,960.1	4,873.2	18.2	18.3	-124.05	124.7	-659.3	165.1	136.6	28.45	5.802	
5,000.0	4,909.9	5,019.0	4,931.1	18.5	18.5	-125.05	128.7	-669.2	167.3	138.2	29.08	5.753	

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

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Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8483-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Offset	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)		
5,035.0	4,943.9	5,053.3	4,964.9	18.7	18.7	-125.70	130.9	-674.8	168.8	139.3	29.46	5.729
5,100.0	5,006.9	5,117.0	5,027.8	19.0	19.0	-127.02	134.7	-684.6	171.9	141.7	30.22	5.690
5,130.0	5,036.0	5,146.4	5,056.8	19.1	19.1	-127.68	136.4	-688.8	173.6	143.0	30.58	5.676
5,200.0	5,104.0	5,214.8	5,124.4	19.5	19.4	-129.31	140.2	-698.3	177.9	146.4	31.46	5.653
5,225.0	5,128.2	5,239.2	5,148.5	19.6	19.5	-129.93	141.5	-701.5	179.5	147.8	31.79	5.648
5,300.0	5,201.0	5,312.2	5,220.9	19.9	19.8	-131.84	145.0	-710.5	185.1	152.4	32.79	5.646
5,320.0	5,220.4	5,331.7	5,240.2	20.0	19.9	-132.36	145.9	-712.7	186.8	153.7	33.06	5.649
5,400.0	5,298.0	5,409.2	5,317.3	20.4	20.2	-134.51	149.2	-721.0	194.0	159.8	34.17	5.676
5,415.0	5,312.6	5,423.8	5,331.7	20.5	20.3	-134.92	149.8	-722.5	195.4	161.0	34.38	5.683
5,500.0	5,395.1	5,505.8	5,413.4	20.9	20.6	-137.27	152.8	-730.1	204.4	168.8	35.58	5.744
5,510.0	5,404.8	5,515.5	5,423.0	20.9	20.6	-137.54	153.1	-730.9	205.5	169.8	35.72	5.753
5,600.0	5,492.1	5,601.9	5,509.1	21.4	20.9	-140.02	155.8	-737.6	216.5	179.5	36.98	5.855
5,605.0	5,496.9	5,606.7	5,513.9	21.4	21.0	-140.16	155.9	-737.9	217.2	180.1	37.05	5.862
5,700.0	5,589.1	5,697.5	5,604.5	21.8	21.3	-142.72	158.1	-743.5	230.4	192.1	38.34	6.010
5,795.0	5,681.3	5,787.7	5,694.6	22.3	21.6	-145.20	159.8	-747.8	245.3	205.7	39.58	6.198
5,800.0	5,686.1	5,792.4	5,699.3	22.3	21.6	-145.32	159.9	-748.0	246.1	206.5	39.64	6.209
5,890.0	5,773.5	5,877.3	5,784.1	22.8	21.9	-147.55	161.0	-750.8	261.9	221.1	40.75	6.427
5,900.0	5,783.2	5,886.7	5,793.5	22.8	21.9	-147.79	161.1	-751.0	263.7	222.8	40.87	6.453
5,985.0	5,865.6	5,966.3	5,873.1	23.2	22.1	-149.77	161.6	-752.4	280.1	238.3	41.82	6.697
6,000.0	5,880.2	5,980.3	5,887.1	23.3	22.1	-150.10	161.7	-752.6	283.1	241.1	41.98	6.743
6,080.0	5,957.8	6,055.6	5,962.4	23.7	22.2	-151.85	161.8	-752.8	299.9	257.1	42.76	7.013
6,100.0	5,977.2	6,075.0	5,981.8	23.8	22.2	-152.28	161.8	-752.8	304.2	261.2	42.95	7.083
6,175.0	6,050.0	6,147.8	6,054.6	24.1	22.3	-153.78	161.8	-752.8	320.5	276.8	43.63	7.345
6,200.0	6,074.3	6,172.1	6,078.9	24.2	22.3	-154.25	161.8	-752.8	325.9	282.1	43.85	7.433
6,218.3	6,092.0	6,189.8	6,096.6	24.3	22.3	-154.58	161.8	-752.8	329.9	285.9	44.00	7.498
6,270.0	6,142.3	6,240.1	6,146.9	24.6	22.3	-155.54	161.8	-752.8	340.9	296.5	44.43	7.674
6,300.0	6,171.6	6,269.4	6,176.2	24.7	22.3	-156.04	161.8	-752.8	347.0	302.3	44.66	7.768
6,365.0	6,235.2	6,333.0	6,239.8	25.0	22.3	-156.99	161.8	-752.8	359.1	313.9	45.15	7.954
6,400.0	6,269.6	6,367.4	6,274.2	25.2	22.3	-157.43	161.8	-752.8	365.1	319.7	45.40	8.043
6,460.0	6,328.7	6,426.5	6,333.3	25.5	22.4	-158.10	161.8	-752.8	374.6	328.8	45.79	8.179
6,500.0	6,368.3	6,466.1	6,372.9	25.7	22.4	-158.48	161.8	-752.8	380.2	334.2	46.05	8.257
6,555.0	6,422.7	6,520.5	6,427.3	25.9	22.4	-158.94	161.8	-752.8	387.2	340.8	46.37	8.350
6,600.0	6,467.4	6,565.2	6,472.0	26.1	22.4	-159.25	161.8	-752.8	392.2	345.6	46.63	8.411
6,650.0	6,517.2	6,615.0	6,521.8	26.3	22.4	-159.55	161.8	-752.8	397.0	350.1	46.89	8.466
6,700.0	6,567.0	6,664.8	6,571.6	26.5	22.5	-159.79	161.8	-752.8	401.0	353.8	47.14	8.505
6,745.0	6,611.9	6,709.7	6,616.5	26.7	22.5	-159.96	161.8	-752.8	403.8	356.5	47.34	8.530
6,800.0	6,666.8	6,764.6	6,671.4	26.9	22.5	-160.11	161.8	-752.8	406.5	358.9	47.58	8.543
6,840.0	6,706.8	6,804.6	6,711.4	27.0	22.5	-160.19	161.8	-752.8	407.8	360.0	47.72	8.545
6,900.0	6,766.8	6,864.6	6,771.4	27.2	22.5	-160.24	161.8	-752.8	408.7	360.8	47.92	8.530
6,918.2	6,785.0	6,882.8	6,789.6	27.2	22.6	132.22	161.8	-752.8	408.8	360.8	47.94	8.526
6,935.0	6,801.8	6,899.6	6,806.4	27.2	22.6	132.22	161.8	-752.8	408.8	360.8	47.95	8.524
7,000.0	6,866.8	6,964.6	6,871.4	27.2	22.6	132.22	161.8	-752.8	408.8	360.8	48.00	8.516
7,030.0	6,896.8	6,994.6	6,901.4	27.2	22.6	132.22	161.8	-752.8	408.8	360.7	48.02	8.512
7,100.0	6,966.8	7,064.6	6,971.4	27.2	22.6	132.22	161.8	-752.8	408.8	360.7	48.08	8.502
7,125.0	6,991.8	7,089.6	6,996.4	27.2	22.6	132.22	161.8	-752.8	408.8	360.7	48.10	8.499
7,200.0	7,066.8	7,164.6	7,071.4	27.3	22.7	132.22	161.8	-752.8	408.8	360.6	48.15	8.489
7,220.0	7,086.8	7,184.6	7,091.4	27.3	22.7	132.22	161.8	-752.8	408.8	360.6	48.17	8.486
7,300.0	7,166.8	7,264.6	7,171.4	27.3	22.7	132.22	161.8	-752.8	408.8	360.5	48.23	8.475
7,315.0	7,181.8	7,279.6	7,186.4	27.3	22.7	132.22	161.8	-752.8	408.8	360.5	48.24	8.473
7,400.0	7,266.8	7,364.6	7,271.4	27.3	22.7	132.22	161.8	-752.8	408.8	360.5	48.31	8.461
7,410.0	7,276.8	7,374.6	7,281.4	27.3	22.7	132.22	161.8	-752.8	408.8	360.4	48.32	8.460

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8483-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Offset Wellbore Centre	Distance	Rule Assigned:								
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
7,500.0	7,366.8	7,464.6	7,371.4	27.4	22.8	132.22	161.8	-752.8	408.8	360.4	48.39	8.448	
7,505.0	7,371.8	7,469.6	7,376.4	27.4	22.8	132.22	161.8	-752.8	408.8	360.4	48.39	8.447	
7,600.0	7,466.8	7,564.6	7,471.4	27.4	22.8	132.22	161.8	-752.8	408.8	360.3	48.47	8.434	
7,695.0	7,561.8	7,659.6	7,566.4	27.4	22.9	132.22	161.8	-752.8	408.8	360.2	48.54	8.421	
7,700.0	7,566.8	7,664.6	7,571.4	27.4	22.9	132.22	161.8	-752.8	408.8	360.2	48.55	8.420	
7,790.0	7,656.8	7,754.6	7,661.4	27.5	22.9	132.22	161.8	-752.8	408.8	360.1	48.62	8.408	
7,800.0	7,666.8	7,764.6	7,671.4	27.5	22.9	132.22	161.8	-752.8	408.8	360.1	48.63	8.406	
7,885.0	7,751.8	7,849.6	7,756.4	27.5	22.9	132.22	161.8	-752.8	408.8	360.1	48.69	8.394	
7,900.0	7,766.8	7,864.6	7,771.4	27.5	22.9	132.22	161.8	-752.8	408.8	360.1	48.71	8.392	
7,980.0	7,846.8	7,944.6	7,851.4	27.5	23.0	132.22	161.8	-752.8	408.8	360.0	48.77	8.381	
8,000.0	7,866.8	7,964.6	7,871.4	27.5	23.0	132.22	161.8	-752.8	408.8	360.0	48.79	8.378	
8,075.0	7,941.8	8,039.6	7,946.4	27.6	23.0	132.22	161.8	-752.8	408.8	359.9	48.85	8.368	
8,100.0	7,966.8	8,064.6	7,971.4	27.6	23.0	132.22	161.8	-752.8	408.8	359.9	48.87	8.365	
8,170.0	8,036.8	8,134.6	8,041.4	27.6	23.1	132.22	161.8	-752.8	408.8	359.8	48.93	8.355	
8,200.0	8,066.8	8,164.6	8,071.4	27.6	23.1	132.22	161.8	-752.8	408.8	359.8	48.95	8.351	
8,265.0	8,131.8	8,229.6	8,136.4	27.6	23.1	132.22	161.8	-752.8	408.8	359.8	49.00	8.342	
8,300.0	8,166.8	8,264.6	8,171.4	27.6	23.1	132.22	161.8	-752.8	408.8	359.7	49.03	8.337	
8,360.0	8,226.8	8,324.6	8,231.4	27.6	23.1	132.22	161.8	-752.8	408.8	359.7	49.08	8.328	
8,400.0	8,266.8	8,364.6	8,271.4	27.7	23.2	132.22	161.8	-752.8	408.8	359.6	49.11	8.323	
8,455.0	8,321.8	8,419.6	8,326.4	27.7	23.2	132.22	161.8	-752.8	408.8	359.6	49.16	8.315	
8,500.0	8,366.8	8,464.6	8,371.4	27.7	23.2	132.22	161.8	-752.8	408.8	359.6	49.19	8.310	
8,503.3	8,370.0	8,467.8	8,374.6	27.7	23.2	132.22	161.8	-752.8	408.8	359.6	49.19	8.310	
8,550.0	8,416.8	8,500.0	8,406.8	27.7	23.2	132.25	161.6	-752.8	409.2	360.3	48.89	8.369	
8,600.0	8,466.8	8,538.2	8,444.9	27.7	23.2	132.50	159.2	-752.8	411.4	362.8	48.61	8.463	
8,645.0	8,511.8	8,568.3	8,474.7	27.7	23.2	132.88	155.5	-752.9	415.1	366.9	48.19	8.613	
8,700.0	8,566.8	8,600.0	8,506.0	27.8	23.2	133.44	149.9	-752.9	421.8	374.4	47.48	8.885	
8,740.0	8,606.8	8,630.0	8,535.2	27.8	23.2	134.12	143.1	-753.0	428.3	381.2	47.10	9.093	
8,800.0	8,666.8	8,667.4	8,571.0	27.8	23.2	135.15	132.5	-753.0	440.4	394.2	46.27	9.518	
8,835.0	8,701.8	8,688.4	8,590.9	27.8	23.3	135.81	125.4	-753.1	448.9	403.2	45.75	9.813	
8,900.0	8,766.8	8,726.1	8,625.7	27.8	23.3	137.11	111.1	-753.2	467.4	422.7	44.71	10.454	
8,930.0	8,796.8	8,750.0	8,647.3	27.8	23.3	138.01	100.8	-753.3	477.2	432.8	44.40	10.748	
9,000.0	8,866.8	8,779.9	8,673.6	27.9	23.3	139.19	86.7	-753.4	502.7	459.7	43.04	11.680	
9,025.0	8,891.8	8,800.0	8,690.9	27.9	23.3	140.01	76.5	-753.5	512.9	470.1	42.80	11.983	
9,100.0	8,966.8	8,828.5	8,714.8	27.9	23.3	141.21	60.9	-753.6	545.9	504.6	41.38	13.192	
9,120.0	8,986.8	8,837.6	8,722.2	27.9	23.3	141.60	55.7	-753.7	555.5	514.4	41.07	13.526	
9,200.0	9,066.8	8,872.0	8,749.6	27.9	23.3	143.09	34.9	-753.8	596.5	556.6	39.87	14.962	
9,215.0	9,081.8	8,878.1	8,754.4	28.0	23.3	143.35	31.0	-753.9	604.6	565.0	39.66	15.247	
9,300.0	9,166.8	8,900.0	8,771.0	28.0	23.3	144.31	16.8	-754.0	653.7	615.3	38.37	17.036	
9,310.0	9,176.8	8,914.4	8,781.7	28.0	23.3	144.93	7.1	-754.1	659.6	621.1	38.45	17.156	
9,326.3	9,193.0	8,920.2	8,785.9	28.0	23.3	145.19	3.1	-754.1	669.5	631.2	38.26	17.500	
9,350.0	9,216.8	8,928.7	8,791.9	28.0	23.4	-33.91	-2.8	-754.2	683.9	646.2	37.71	18.138	
9,400.0	9,266.6	8,950.0	8,806.9	28.0	23.4	-31.22	-18.0	-754.3	713.2	675.9	37.27	19.136	
9,405.0	9,271.5	8,950.0	8,806.9	28.0	23.4	-31.04	-18.0	-754.3	716.0	678.8	37.20	19.250	
9,450.0	9,315.8	8,965.2	8,817.2	28.0	23.4	-29.13	-29.3	-754.4	740.7	703.9	36.80	20.128	
9,500.0	9,364.1	8,984.0	8,829.4	28.0	23.4	-27.27	-43.4	-754.5	766.5	730.0	36.44	21.031	
9,550.0	9,411.1	9,000.0	8,839.5	28.0	23.4	-25.74	-55.9	-754.6	790.3	754.2	36.11	21.887	
9,595.0	9,452.0	9,020.3	8,851.8	28.1	23.4	-24.49	-72.0	-754.7	809.9	774.0	35.92	22.548	
9,600.0	9,456.5	9,022.2	8,853.0	28.1	23.4	-24.37	-73.6	-754.7	812.0	776.1	35.90	22.620	
9,650.0	9,499.8	9,050.0	8,868.8	28.1	23.4	-23.16	-96.4	-754.9	831.7	796.0	35.79	23.240	
9,690.0	9,532.8	9,050.0	8,868.8	28.1	23.4	-22.57	-96.4	-754.9	845.8	810.3	35.50	23.829	
9,700.0	9,540.8	9,050.0	8,868.8	28.1	23.4	-22.43	-96.4	-754.9	849.2	813.8	35.43	23.970	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8483-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Offset	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation	Warning		
Measured	Vertical	Measured	Vertical	Reference	Offset	Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
9,750.0	9,579.2	9,081.0	8,885.1	28.1	23.5	-21.57	-122.7	-755.2	864.2	828.8	35.43	24.393	
9,785.0	9,604.3	9,100.0	8,894.4	28.1	23.5	-21.09	-139.3	-755.3	873.5	838.0	35.42	24.663	
9,800.0	9,614.6	9,100.0	8,894.4	28.1	23.5	-20.96	-139.3	-755.3	877.0	841.7	35.34	24.816	
9,850.0	9,646.8	9,120.8	8,903.9	28.2	23.5	-20.47	-157.8	-755.4	887.5	852.2	35.30	25.139	
9,880.0	9,664.5	9,132.8	8,909.1	28.2	23.5	-20.24	-168.6	-755.5	892.6	857.3	35.29	25.293	
9,900.0	9,675.6	9,150.0	8,916.2	28.2	23.5	-20.08	-184.3	-755.7	895.7	860.3	35.36	25.329	
9,950.0	9,700.7	9,150.0	8,916.2	28.2	23.5	-19.88	-184.3	-755.7	901.3	866.1	35.22	25.594	
9,975.0	9,711.8	9,170.9	8,924.1	28.2	23.5	-19.78	-203.6	-755.8	903.1	867.8	35.31	25.573	
10,000.0	9,721.9	9,180.9	8,927.6	28.3	23.5	-19.72	-213.0	-755.9	904.4	869.0	35.33	25.595	
10,050.0	9,739.1	9,200.0	8,933.9	28.3	23.6	-19.69	-231.0	-756.0	905.1	869.7	35.38	25.581	
10,070.0	9,744.8	9,200.0	8,933.9	28.3	23.6	-19.70	-231.0	-756.0	904.8	869.5	35.36	25.591	
10,100.0	9,752.1	9,221.1	8,940.2	28.3	23.6	-19.76	-251.2	-756.2	903.4	867.9	35.46	25.473	
10,150.0	9,760.9	9,250.0	8,947.6	28.4	23.6	-19.97	-279.1	-756.4	899.3	863.7	35.61	25.256	
10,165.0	9,762.7	9,250.0	8,947.6	28.4	23.6	-20.03	-279.1	-756.4	897.5	861.9	35.60	25.211	
10,200.0	9,765.4	9,250.0	8,947.6	28.4	23.6	-20.19	-279.1	-756.4	892.8	857.2	35.59	25.087	
10,225.9	9,766.0	9,271.5	8,952.1	28.5	23.6	-20.43	-300.1	-756.6	888.2	852.6	35.69	24.886	
10,260.0	9,766.0	9,300.0	8,957.0	28.5	23.7	-20.54	-328.2	-756.9	882.7	846.9	35.83	24.638	
10,300.0	9,766.1	9,300.0	8,957.0	28.5	23.7	-20.54	-328.2	-756.9	876.6	840.8	35.79	24.494	
10,355.0	9,766.1	9,323.9	8,959.9	28.6	23.7	-20.61	-351.9	-757.0	870.3	834.4	35.89	24.247	
10,400.0	9,766.1	9,350.0	8,962.0	28.7	23.7	-20.66	-377.9	-757.3	866.7	830.7	36.02	24.065	
10,450.0	9,766.2	9,363.1	8,962.6	28.8	23.7	-20.67	-391.0	-757.4	864.2	828.1	36.07	23.958	
10,497.5	9,766.2	9,382.9	8,963.0	28.8	23.8	-20.68	-410.8	-757.5	863.4	827.3	36.16	23.879	
10,500.0	9,766.2	9,385.3	8,963.0	28.8	23.8	-20.68	-413.2	-757.6	863.4	827.3	36.17	23.872	
10,545.0	9,766.2	9,430.3	8,963.0	28.9	23.8	-20.68	-458.2	-757.9	863.4	827.1	36.38	23.732	
10,600.0	9,766.3	9,485.3	8,963.1	29.0	23.9	-20.68	-513.2	-758.4	863.5	826.8	36.65	23.559	
10,640.0	9,766.3	9,525.3	8,963.1	29.1	24.0	-20.68	-553.2	-758.7	863.5	826.6	36.86	23.422	
10,700.0	9,766.3	9,585.3	8,963.1	29.2	24.1	-20.68	-613.2	-759.2	863.5	826.3	37.19	23.216	
10,735.0	9,766.4	9,620.3	8,963.2	29.2	24.1	-20.68	-648.2	-759.5	863.5	826.1	37.40	23.088	
10,800.0	9,766.4	9,685.3	8,963.2	29.4	24.3	-20.68	-713.2	-760.0	863.5	825.7	37.79	22.849	
10,830.0	9,766.4	9,715.3	8,963.2	29.4	24.3	-20.68	-743.2	-760.3	863.5	825.5	37.98	22.733	
10,900.0	9,766.5	9,785.3	8,963.3	29.6	24.5	-20.68	-813.2	-760.9	863.5	825.0	38.44	22.460	
10,925.0	9,766.5	9,810.3	8,963.3	29.6	24.5	-20.68	-838.2	-761.1	863.5	824.8	38.62	22.360	
11,000.0	9,766.6	9,885.3	8,963.3	29.8	24.7	-20.68	-913.2	-761.7	863.5	824.3	39.15	22.056	
11,020.0	9,766.6	9,905.3	8,963.3	29.9	24.7	-20.68	-933.2	-761.9	863.5	824.2	39.30	21.973	
11,100.0	9,766.6	9,985.3	8,963.4	30.0	24.9	-20.68	-1,013.2	-762.5	863.5	823.6	39.90	21.639	
11,115.0	9,766.6	10,000.3	8,963.4	30.1	25.0	-20.68	-1,028.2	-762.6	863.5	823.5	40.02	21.575	
11,200.0	9,766.7	10,085.3	8,963.5	30.3	25.2	-20.68	-1,113.2	-763.3	863.5	822.8	40.71	21.213	
11,210.0	9,766.7	10,095.3	8,963.5	30.3	25.2	-20.68	-1,123.2	-763.4	863.5	822.7	40.79	21.170	
11,300.0	9,766.8	10,185.3	8,963.5	30.6	25.5	-20.68	-1,213.2	-764.2	863.5	821.9	41.55	20.781	
11,305.0	9,766.8	10,190.3	8,963.5	30.6	25.5	-20.68	-1,218.2	-764.2	863.5	821.9	41.59	20.760	
11,400.0	9,766.8	10,285.3	8,963.6	30.9	25.7	-20.68	-1,313.2	-765.0	863.5	821.1	42.44	20.347	
11,495.0	9,766.9	10,380.3	8,963.7	31.1	26.0	-20.68	-1,408.2	-765.8	863.5	820.2	43.32	19.935	
11,500.0	9,766.9	10,385.3	8,963.7	31.2	26.1	-20.68	-1,413.2	-765.8	863.5	820.1	43.36	19.913	
11,590.0	9,767.0	10,475.3	8,963.7	31.4	26.4	-20.68	-1,503.2	-766.6	863.5	819.3	44.23	19.524	
11,600.0	9,767.0	10,485.3	8,963.7	31.5	26.4	-20.68	-1,513.2	-766.7	863.5	819.2	44.32	19.482	
11,685.0	9,767.1	10,570.3	8,963.8	31.8	26.7	-20.68	-1,598.2	-767.4	863.5	818.3	45.17	19.117	
11,700.0	9,767.1	10,585.3	8,963.8	31.8	26.7	-20.68	-1,613.2	-767.5	863.5	818.2	45.32	19.054	
11,780.0	9,767.1	10,665.3	8,963.9	32.1	27.0	-20.68	-1,693.2	-768.1	863.5	817.4	46.14	18.715	
11,800.0	9,767.1	10,685.3	8,963.9	32.1	27.1	-20.68	-1,713.2	-768.3	863.5	817.2	46.35	18.632	
11,875.0	9,767.2	10,760.3	8,963.9	32.4	27.4	-20.68	-1,788.2	-768.9	863.5	816.4	47.14	18.319	
11,900.0	9,767.2	10,785.3	8,963.9	32.5	27.5	-20.68	-1,813.2	-769.1	863.5	816.1	47.40	18.217	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8483-r.5 MWD+IFR1+MS							Rule Assigned:				Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance					
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	
11,970.0	9,767.3	10,855.3	8,964.0	32.8	27.7	-20.68	-1,883.2	-769.7	863.5	815.4	48.16	17.930		
12,000.0	9,767.3	10,885.3	8,964.0	32.9	27.9	-20.68	-1,913.2	-770.0	863.5	815.0	48.49	17.810		
12,065.0	9,767.3	10,950.3	8,964.0	33.1	28.1	-20.68	-1,978.2	-770.5	863.5	814.3	49.21	17.549		
12,100.0	9,767.4	10,985.3	8,964.1	33.2	28.3	-20.68	-2,013.2	-770.8	863.5	813.9	49.60	17.411		
12,160.0	9,767.4	11,045.3	8,964.1	33.5	28.5	-20.68	-2,073.2	-771.3	863.5	813.3	50.28	17.176		
12,200.0	9,767.4	11,085.3	8,964.1	33.6	28.7	-20.68	-2,113.2	-771.6	863.5	812.8	50.73	17.022		
12,255.0	9,767.5	11,140.3	8,964.2	33.9	28.9	-20.68	-2,168.2	-772.1	863.5	812.2	51.37	16.811		
12,300.0	9,767.5	11,185.3	8,964.2	34.0	29.1	-20.68	-2,213.2	-772.4	863.5	811.7	51.89	16.643		
12,350.0	9,767.5	11,235.3	8,964.2	34.2	29.3	-20.68	-2,263.2	-772.9	863.5	811.1	52.48	16.456		
12,400.0	9,767.6	11,285.3	8,964.3	34.5	29.6	-20.68	-2,313.2	-773.3	863.5	810.5	53.06	16.273		
12,445.0	9,767.6	11,330.3	8,964.3	34.6	29.8	-20.68	-2,358.2	-773.6	863.5	809.9	53.60	16.110		
12,500.0	9,767.6	11,385.3	8,964.3	34.9	30.0	-20.68	-2,413.2	-774.1	863.5	809.3	54.26	15.914		
12,540.0	9,767.7	11,425.3	8,964.4	35.1	30.2	-20.68	-2,453.2	-774.4	863.5	808.8	54.75	15.773		
12,600.0	9,767.7	11,485.3	8,964.4	35.3	30.5	-20.68	-2,513.2	-774.9	863.6	808.1	55.48	15.566		
12,635.0	9,767.7	11,520.3	8,964.4	35.5	30.7	-20.68	-2,548.2	-775.2	863.6	807.6	55.91	15.446		
12,700.0	9,767.8	11,585.3	8,964.5	35.8	31.0	-20.68	-2,613.1	-775.7	863.6	806.8	56.71	15.228		
12,730.0	9,767.8	11,615.3	8,964.5	35.9	31.1	-20.68	-2,643.1	-776.0	863.6	806.5	57.08	15.128		
12,800.0	9,767.9	11,685.3	8,964.5	36.2	31.5	-20.68	-2,713.1	-776.6	863.6	805.6	57.96	14.900		
12,825.0	9,767.9	11,710.3	8,964.6	36.3	31.6	-20.68	-2,738.1	-776.8	863.6	805.3	58.27	14.819		
12,900.0	9,767.9	11,785.3	8,964.6	36.7	32.0	-20.68	-2,813.1	-777.4	863.6	804.3	59.22	14.582		
12,920.0	9,767.9	11,805.3	8,964.6	36.8	32.1	-20.68	-2,833.1	-777.6	863.6	804.1	59.48	14.519		
13,000.0	9,768.0	11,885.3	8,964.7	37.2	32.5	-20.68	-2,913.1	-778.2	863.6	803.1	60.50	14.274		
13,015.0	9,768.0	11,900.3	8,964.7	37.2	32.6	-20.68	-2,928.1	-778.4	863.6	802.9	60.69	14.228		
13,100.0	9,768.1	11,985.3	8,964.7	37.7	33.0	-20.68	-3,013.1	-779.1	863.6	801.8	61.79	13.975		
13,110.0	9,768.1	11,995.3	8,964.7	37.7	33.1	-20.68	-3,023.1	-779.1	863.6	801.7	61.92	13.946		
13,200.0	9,768.2	12,085.3	8,964.8	38.2	33.5	-20.68	-3,113.1	-779.9	863.6	800.5	63.10	13.687		
13,205.0	9,768.2	12,090.3	8,964.8	38.2	33.6	-20.68	-3,118.1	-779.9	863.6	800.4	63.16	13.673		
13,300.0	9,768.2	12,185.3	8,964.9	38.7	34.1	-20.68	-3,213.1	-780.7	863.6	799.2	64.41	13.407		
13,395.0	9,768.3	12,280.3	8,964.9	39.2	34.6	-20.68	-3,308.1	-781.5	863.6	797.9	65.67	13.150		
13,400.0	9,768.3	12,285.3	8,964.9	39.2	34.6	-20.68	-3,313.1	-781.5	863.6	797.9	65.74	13.137		
13,490.0	9,768.4	12,375.3	8,965.0	39.7	35.1	-20.68	-3,403.1	-782.3	863.6	796.7	66.94	12.901		
13,500.0	9,768.4	12,385.3	8,965.0	39.7	35.2	-20.68	-3,413.1	-782.4	863.6	796.5	67.07	12.875		
13,585.0	9,768.4	12,470.3	8,965.1	40.2	35.7	-20.68	-3,498.1	-783.1	863.6	795.4	68.22	12.659		
13,600.0	9,768.4	12,485.3	8,965.1	40.2	35.8	-20.68	-3,513.1	-783.2	863.6	795.2	68.42	12.622		
13,680.0	9,768.5	12,565.3	8,965.1	40.7	36.2	-20.68	-3,593.1	-783.8	863.6	794.1	69.51	12.425		
13,700.0	9,768.5	12,585.3	8,965.1	40.8	36.4	-20.68	-3,613.1	-784.0	863.6	793.8	69.78	12.377		
13,775.0	9,768.6	12,660.3	8,965.2	41.2	36.8	-20.68	-3,688.1	-784.6	863.6	792.8	70.80	12.198		
13,800.0	9,768.6	12,685.3	8,965.2	41.3	36.9	-20.68	-3,713.1	-784.8	863.6	792.5	71.14	12.139		
13,870.0	9,768.6	12,755.3	8,965.3	41.7	37.3	-20.68	-3,783.1	-785.4	863.6	791.5	72.10	11.978		
13,900.0	9,768.7	12,785.3	8,965.3	41.9	37.5	-20.68	-3,813.1	-785.7	863.6	791.1	72.51	11.910		
13,965.0	9,768.7	12,850.3	8,965.3	42.2	37.9	-20.68	-3,878.1	-786.2	863.6	790.2	73.41	11.764		
14,000.0	9,768.7	12,885.3	8,965.3	42.4	38.1	-20.68	-3,913.1	-786.5	863.6	789.7	73.89	11.687		
14,060.0	9,768.8	12,945.3	8,965.4	42.8	38.5	-20.68	-3,973.1	-787.0	863.6	788.9	74.73	11.557		
14,100.0	9,768.8	12,985.3	8,965.4	43.0	38.7	-20.68	-4,013.1	-787.3	863.6	788.3	75.28	11.472		
14,155.0	9,768.8	13,040.3	8,965.4	43.3	39.1	-20.68	-4,068.1	-787.8	863.6	787.6	76.05	11.357		
14,200.0	9,768.9	13,085.3	8,965.5	43.6	39.3	-20.68	-4,113.1	-788.1	863.6	787.0	76.67	11.264		
14,250.0	9,768.9	13,135.3	8,965.5	43.9	39.6	-20.68	-4,163.1	-788.6	863.6	786.3	77.37	11.162		
14,300.0	9,768.9	13,185.3	8,965.5	44.2	39.9	-20.68	-4,213.1	-789.0	863.6	785.6	78.08	11.062		
14,345.0	9,769.0	13,230.3	8,965.6	44.4	40.2	-20.68	-4,258.1	-789.3	863.6	784.9	78.71	10.973		
14,400.0	9,769.0	13,285.3	8,965.6	44.7	40.6	-20.68	-4,313.1	-789.8	863.6	784.2	79.48	10.866		
14,440.0	9,769.0	13,325.3	8,965.6	45.0	40.8	-20.68	-4,353.1	-790.1	863.6	783.6	80.05	10.789		

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

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Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8483-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation		Separation Factor	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)			
14,500.0	9,769.1	13,385.3	8,965.7	45.3	41.2	-20.68	-4,413.1	-790.6	863.6	782.8	80.89	10.676	
14,535.0	9,769.1	13,420.3	8,965.7	45.5	41.4	-20.68	-4,448.1	-790.9	863.7	782.3	81.39	10.611	
14,600.0	9,769.2	13,485.3	8,965.7	45.9	41.8	-20.68	-4,513.1	-791.5	863.7	781.3	82.31	10.492	
14,630.0	9,769.2	13,515.3	8,965.8	46.1	42.0	-20.68	-4,543.1	-791.7	863.7	780.9	82.74	10.438	
14,700.0	9,769.2	13,585.3	8,965.8	46.5	42.5	-20.68	-4,613.1	-792.3	863.7	779.9	83.74	10.314	
14,725.0	9,769.3	13,610.3	8,965.8	46.7	42.6	-20.68	-4,638.1	-792.5	863.7	779.6	84.09	10.270	
14,800.0	9,769.3	13,685.3	8,965.9	47.1	43.1	-20.68	-4,713.1	-793.1	863.7	778.5	85.16	10.141	
14,820.0	9,769.3	13,705.3	8,965.9	47.2	43.2	-20.68	-4,733.1	-793.3	863.7	778.2	85.45	10.107	
14,900.0	9,769.4	13,785.3	8,965.9	47.7	43.7	-20.68	-4,813.1	-793.9	863.7	777.1	86.60	9.973	
14,915.0	9,769.4	13,800.3	8,966.0	47.8	43.8	-20.68	-4,828.1	-794.1	863.7	776.9	86.81	9.949	
15,000.0	9,769.5	13,885.3	8,966.0	48.4	44.4	-20.68	-4,913.1	-794.8	863.7	775.6	88.03	9.811	
15,010.0	9,769.5	13,895.3	8,966.0	48.4	44.4	-20.68	-4,923.1	-794.8	863.7	775.5	88.18	9.795	
15,100.0	9,769.5	13,985.3	8,966.1	49.0	45.0	-20.68	-5,013.1	-795.6	863.7	774.2	89.48	9.653	
15,105.0	9,769.5	13,990.3	8,966.1	49.0	45.1	-20.68	-5,018.1	-795.6	863.7	774.1	89.55	9.645	
15,200.0	9,769.6	14,085.3	8,966.1	49.6	45.7	-20.68	-5,113.1	-796.4	863.7	772.8	90.92	9.499	
15,295.0	9,769.7	14,180.3	8,966.2	50.2	46.3	-20.68	-5,208.1	-797.2	863.7	771.4	92.30	9.357	
15,300.0	9,769.7	14,185.3	8,966.2	50.2	46.3	-20.68	-5,213.1	-797.2	863.7	771.3	92.37	9.350	
15,390.0	9,769.7	14,275.3	8,966.3	50.8	46.9	-20.68	-5,303.1	-798.0	863.7	770.0	93.68	9.220	
15,400.0	9,769.7	14,285.3	8,966.3	50.9	47.0	-20.68	-5,313.1	-798.1	863.7	769.9	93.83	9.205	
15,485.0	9,769.8	14,370.3	8,966.3	51.4	47.6	-20.68	-5,398.1	-798.8	863.7	768.6	95.06	9.085	
15,500.0	9,769.8	14,385.3	8,966.3	51.5	47.7	-20.68	-5,413.1	-798.9	863.7	768.4	95.28	9.065	
15,580.0	9,769.9	14,465.3	8,966.4	52.0	48.2	-20.68	-5,493.0	-799.6	863.7	767.3	96.45	8.955	
15,600.0	9,769.9	14,485.3	8,966.4	52.1	48.3	-20.68	-5,513.0	-799.7	863.7	767.0	96.74	8.928	
15,675.0	9,769.9	14,560.3	8,966.5	52.6	48.8	-20.68	-5,588.0	-800.3	863.7	765.9	97.84	8.828	
15,700.0	9,770.0	14,585.3	8,966.5	52.8	49.0	-20.68	-5,613.0	-800.6	863.7	765.5	98.21	8.795	
15,770.0	9,770.0	14,655.3	8,966.5	53.2	49.5	-20.68	-5,683.0	-801.1	863.7	764.5	99.23	8.704	
15,800.0	9,770.0	14,685.3	8,966.5	53.4	49.7	-20.68	-5,713.0	-801.4	863.7	764.0	99.67	8.665	
15,865.0	9,770.1	14,750.3	8,966.6	53.8	50.1	-20.68	-5,778.0	-801.9	863.7	763.1	100.63	8.583	
15,900.0	9,770.1	14,785.3	8,966.6	54.1	50.4	-20.68	-5,813.0	-802.2	863.7	762.6	101.14	8.540	
15,960.0	9,770.1	14,845.3	8,966.7	54.5	50.8	-20.68	-5,873.0	-802.7	863.7	761.7	102.03	8.466	
16,000.0	9,770.2	14,885.3	8,966.7	54.7	51.0	-20.68	-5,913.0	-803.0	863.7	761.1	102.62	8.417	
16,055.0	9,770.2	14,940.3	8,966.7	55.1	51.4	-20.68	-5,968.0	-803.5	863.7	760.3	103.43	8.351	
16,100.0	9,770.2	14,985.3	8,966.7	55.4	51.7	-20.68	-6,013.0	-803.9	863.7	759.6	104.09	8.298	
16,150.0	9,770.3	15,035.3	8,966.8	55.7	52.1	-20.68	-6,063.0	-804.3	863.7	758.9	104.83	8.239	
16,200.0	9,770.3	15,085.3	8,966.8	56.0	52.4	-20.68	-6,113.0	-804.7	863.7	758.2	105.57	8.182	
16,245.0	9,770.4	15,130.3	8,966.8	56.3	52.7	-20.68	-6,158.0	-805.1	863.7	757.5	106.24	8.130	
16,300.0	9,770.4	15,185.3	8,966.9	56.7	53.1	-20.68	-6,213.0	-805.5	863.7	756.7	107.05	8.069	
16,340.0	9,770.4	15,225.3	8,966.9	57.0	53.4	-20.68	-6,253.0	-805.8	863.7	756.1	107.64	8.024	
16,400.0	9,770.5	15,285.3	8,967.0	57.4	53.8	-20.68	-6,313.0	-806.3	863.7	755.2	108.53	7.958	
16,435.0	9,770.5	15,320.3	8,967.0	57.6	54.0	-20.68	-6,348.0	-806.6	863.7	754.7	109.05	7.920	
16,500.0	9,770.5	15,385.3	8,967.0	58.0	54.5	-20.68	-6,413.0	-807.2	863.8	753.7	110.02	7.851	
16,530.0	9,770.6	15,415.3	8,967.0	58.2	54.7	-20.68	-6,443.0	-807.4	863.8	753.3	110.46	7.819	
16,600.0	9,770.6	15,485.3	8,967.1	58.7	55.2	-20.68	-6,513.0	-808.0	863.8	752.3	111.51	7.746	
16,625.0	9,770.6	15,510.3	8,967.1	58.9	55.3	-20.68	-6,538.0	-808.2	863.8	751.9	111.88	7.721	
16,700.0	9,770.7	15,585.3	8,967.2	59.4	55.9	-20.68	-6,613.0	-808.8	863.8	750.8	112.99	7.644	
16,720.0	9,770.7	15,605.3	8,967.2	59.5	56.0	-20.68	-6,633.0	-809.0	863.8	750.5	113.29	7.624	
16,800.0	9,770.8	15,685.3	8,967.2	60.0	56.5	-20.68	-6,713.0	-809.6	863.8	749.3	114.49	7.545	
16,815.0	9,770.8	15,700.3	8,967.2	60.1	56.7	-20.68	-6,728.0	-809.8	863.8	749.1	114.71	7.530	
16,900.0	9,770.8	15,785.3	8,967.3	60.7	57.2	-20.67	-6,813.0	-810.5	863.8	747.8	115.98	7.448	
16,910.0	9,770.8	15,795.3	8,967.3	60.8	57.3	-20.67	-6,823.0	-810.6	863.8	747.6	116.13	7.438	
17,000.0	9,770.9	15,885.3	8,967.4	61.4	57.9	-20.67	-6,913.0	-811.3	863.8	746.3	117.47	7.353	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8483-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)	Offset (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Warning
								+N/-S (usft)	+E/-W (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
17,005.0	9,770.9	15,890.3	8,967.4	61.4	58.0	-20.67	-6,918.0	-811.3	863.8	746.2	117.55	7.348
17,100.0	9,771.0	15,985.3	8,967.4	62.1	58.6	-20.67	-7,013.0	-812.1	863.8	744.8	118.97	7.260
17,195.0	9,771.0	16,080.3	8,967.5	62.7	59.3	-20.67	-7,108.0	-812.9	863.8	743.4	120.40	7.175
17,200.0	9,771.0	16,085.3	8,967.5	62.7	59.3	-20.67	-7,113.0	-813.0	863.8	743.3	120.47	7.170
17,290.0	9,771.1	16,175.3	8,967.5	63.4	60.0	-20.67	-7,203.0	-813.7	863.8	742.0	121.82	7.091
17,300.0	9,771.1	16,185.3	8,967.6	63.4	60.1	-20.67	-7,213.0	-813.8	863.8	741.8	121.97	7.082
17,385.0	9,771.2	16,270.3	8,967.6	64.0	60.7	-20.67	-7,298.0	-814.5	863.8	740.5	123.25	7.009
17,400.0	9,771.2	16,285.3	8,967.6	64.1	60.8	-20.67	-7,313.0	-814.6	863.8	740.3	123.47	6.996
17,480.0	9,771.2	16,365.3	8,967.7	64.7	61.3	-20.67	-7,393.0	-815.3	863.8	739.1	124.68	6.928
17,500.0	9,771.3	16,385.3	8,967.7	64.8	61.5	-20.67	-7,413.0	-815.4	863.8	738.8	124.98	6.912
17,575.0	9,771.3	16,460.3	8,967.7	65.3	62.0	-20.67	-7,488.0	-816.1	863.8	737.7	126.11	6.850
17,600.0	9,771.3	16,485.3	8,967.8	65.5	62.2	-20.67	-7,513.0	-816.3	863.8	737.3	126.48	6.830
17,670.0	9,771.4	16,555.3	8,967.8	66.0	62.7	-20.67	-7,583.0	-816.8	863.8	736.3	127.54	6.773
17,700.0	9,771.4	16,585.3	8,967.8	66.2	62.9	-20.67	-7,613.0	-817.1	863.8	735.8	127.99	6.749
17,765.0	9,771.5	16,650.3	8,967.9	66.6	63.3	-20.67	-7,678.0	-817.6	863.8	734.8	128.97	6.698
17,800.0	9,771.5	16,685.3	8,967.9	66.9	63.6	-20.67	-7,713.0	-817.9	863.8	734.3	129.50	6.671
17,860.0	9,771.5	16,745.3	8,967.9	67.3	64.0	-20.67	-7,773.0	-818.4	863.8	733.4	130.40	6.624
17,900.0	9,771.6	16,785.3	8,968.0	67.6	64.3	-20.67	-7,813.0	-818.7	863.8	732.8	131.01	6.594
17,955.0	9,771.6	16,840.3	8,968.0	68.0	64.7	-20.67	-7,868.0	-819.2	863.8	732.0	131.84	6.552
18,000.0	9,771.6	16,885.3	8,968.0	68.3	65.0	-20.67	-7,913.0	-819.6	863.8	731.3	132.52	6.519
18,050.0	9,771.7	16,935.3	8,968.1	68.6	65.4	-20.67	-7,963.0	-820.0	863.8	730.6	133.27	6.482
18,100.0	9,771.7	16,985.3	8,968.1	69.0	65.7	-20.67	-8,013.0	-820.4	863.8	729.8	134.03	6.445
18,145.0	9,771.7	17,030.3	8,968.1	69.3	66.1	-20.67	-8,058.0	-820.8	863.8	729.1	134.71	6.413
18,200.0	9,771.8	17,085.3	8,968.2	69.7	66.5	-20.67	-8,113.0	-821.2	863.8	728.3	135.54	6.373
18,240.0	9,771.8	17,125.3	8,968.2	69.9	66.7	-20.67	-8,153.0	-821.6	863.8	727.7	136.15	6.345
18,300.0	9,771.8	17,185.3	8,968.2	70.4	67.2	-20.67	-8,213.0	-822.1	863.8	726.8	137.06	6.303
18,335.0	9,771.9	17,220.3	8,968.2	70.6	67.4	-20.67	-8,248.0	-822.3	863.8	726.3	137.59	6.279
18,400.0	9,771.9	17,285.3	8,968.3	71.1	67.9	-20.67	-8,313.0	-822.9	863.8	725.3	138.57	6.234
18,430.0	9,771.9	17,315.3	8,968.3	71.3	68.1	-20.67	-8,343.0	-823.1	863.8	724.8	139.03	6.214
18,500.0	9,772.0	17,385.3	8,968.4	71.8	68.6	-20.67	-8,412.9	-823.7	863.9	723.8	140.09	6.167
18,525.0	9,772.0	17,410.3	8,968.4	71.9	68.8	-20.67	-8,437.9	-823.9	863.9	723.4	140.47	6.150
18,600.0	9,772.1	17,485.3	8,968.4	72.5	69.3	-20.67	-8,512.9	-824.5	863.9	722.3	141.60	6.100
18,620.0	9,772.1	17,505.3	8,968.4	72.6	69.5	-20.67	-8,532.9	-824.7	863.9	722.0	141.91	6.087
18,700.0	9,772.1	17,585.3	8,968.5	73.2	70.1	-20.67	-8,612.9	-825.4	863.9	720.7	143.12	6.036
18,715.0	9,772.1	17,600.3	8,968.5	73.3	70.2	-20.67	-8,627.9	-825.5	863.9	720.5	143.35	6.026
18,800.0	9,772.2	17,685.3	8,968.6	73.9	70.8	-20.67	-8,712.9	-826.2	863.9	719.2	144.64	5.972
18,810.0	9,772.2	17,695.3	8,968.6	74.0	70.8	-20.67	-8,722.9	-826.3	863.9	719.1	144.79	5.966
18,900.0	9,772.3	17,785.3	8,968.6	74.6	71.5	-20.67	-8,812.9	-827.0	863.9	717.7	146.16	5.910
18,905.0	9,772.3	17,790.3	8,968.6	74.6	71.5	-20.67	-8,817.9	-827.1	863.9	717.6	146.24	5.907
19,000.0	9,772.3	17,885.3	8,968.7	75.3	72.2	-20.67	-8,912.9	-827.8	863.9	716.2	147.68	5.849
19,095.0	9,772.4	17,980.3	8,968.8	76.0	72.9	-20.67	-9,007.9	-828.6	863.9	714.8	149.13	5.793
19,100.0	9,772.4	17,985.3	8,968.8	76.0	72.9	-20.67	-9,012.9	-828.7	863.9	714.7	149.21	5.790
19,190.0	9,772.5	18,075.3	8,968.8	76.7	73.6	-20.67	-9,102.9	-829.4	863.9	713.3	150.58	5.737
19,200.0	9,772.5	18,085.3	8,968.8	76.7	73.7	-20.67	-9,112.9	-829.5	863.9	713.2	150.73	5.731
19,285.0	9,772.6	18,170.3	8,968.9	77.3	74.3	-20.67	-9,197.9	-830.2	863.9	711.9	152.03	5.683
19,300.0	9,772.6	18,185.3	8,968.9	77.4	74.4	-20.67	-9,212.9	-830.3	863.9	711.6	152.25	5.674
19,380.0	9,772.6	18,265.3	8,968.9	78.0	75.0	-20.67	-9,292.9	-831.0	863.9	710.4	153.47	5.629
19,400.0	9,772.6	18,285.3	8,969.0	78.2	75.1	-20.67	-9,312.9	-831.1	863.9	710.1	153.78	5.618
19,475.0	9,772.7	18,360.3	8,969.0	78.7	75.7	-20.67	-9,387.9	-831.8	863.9	709.0	154.92	5.576
19,500.0	9,772.7	18,385.3	8,969.0	78.9	75.9	-20.67	-9,412.9	-832.0	863.9	708.6	155.31	5.563
19,570.0	9,772.8	18,455.3	8,969.1	79.4	76.4	-20.67	-9,482.9	-832.6	863.9	707.5	156.37	5.525

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8483-r.5 MWD+IFR1+MS							Rule Assigned:		Offset Well Error:		3.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance						
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	
19,600.0	9,772.8	18,485.3	8,969.1	79.6	76.6	-20.67	-9,512.9	-832.8	863.9	707.1	156.83	5.509		
19,665.0	9,772.8	18,550.3	8,969.1	80.0	77.1	-20.67	-9,577.9	-833.3	863.9	706.1	157.82	5.474		
19,700.0	9,772.9	18,585.3	8,969.2	80.3	77.3	-20.67	-9,612.9	-833.6	863.9	705.6	158.36	5.455		
19,760.0	9,772.9	18,645.3	8,969.2	80.7	77.7	-20.67	-9,672.9	-834.1	863.9	704.6	159.28	5.424		
19,800.0	9,772.9	18,685.3	8,969.2	81.0	78.0	-20.67	-9,712.9	-834.5	863.9	704.0	159.89	5.403		
19,855.0	9,773.0	18,740.3	8,969.3	81.4	78.4	-20.67	-9,767.9	-834.9	863.9	703.2	160.73	5.375		
19,900.0	9,773.0	18,785.3	8,969.3	81.7	78.8	-20.67	-9,812.9	-835.3	863.9	702.5	161.42	5.352		
19,950.0	9,773.0	18,835.3	8,969.3	82.1	79.1	-20.67	-9,862.9	-835.7	863.9	701.7	162.18	5.327		
20,000.0	9,773.1	18,885.3	8,969.4	82.5	79.5	-20.67	-9,912.9	-836.1	863.9	701.0	162.95	5.302		
20,045.0	9,773.1	18,930.3	8,969.4	82.8	79.8	-20.67	-9,957.9	-836.5	863.9	700.3	163.63	5.280		
20,100.0	9,773.1	18,985.3	8,969.4	83.2	80.2	-20.67	-10,012.9	-836.9	863.9	699.5	164.48	5.253		
20,140.0	9,773.2	19,025.3	8,969.5	83.5	80.5	-20.67	-10,052.9	-837.3	863.9	698.8	165.09	5.233		
20,200.0	9,773.2	19,085.3	8,969.5	83.9	81.0	-20.67	-10,112.9	-837.8	863.9	697.9	166.01	5.204		
20,235.0	9,773.2	19,120.3	8,969.5	84.1	81.2	-20.67	-10,147.9	-838.1	863.9	697.4	166.54	5.188		
20,300.0	9,773.3	19,185.3	8,969.6	84.6	81.7	-20.67	-10,212.9	-838.6	863.9	696.4	167.54	5.157		
20,330.0	9,773.3	19,215.3	8,969.6	84.8	81.9	-20.67	-10,242.9	-838.8	863.9	695.9	168.00	5.143		
20,400.0	9,773.4	19,285.3	8,969.6	85.3	82.4	-20.67	-10,312.9	-839.4	864.0	694.9	169.07	5.110		
20,425.0	9,773.4	19,310.3	8,969.6	85.5	82.6	-20.67	-10,337.9	-839.6	864.0	694.5	169.45	5.098		
20,500.0	9,773.4	19,385.3	8,969.7	86.1	83.2	-20.67	-10,412.9	-840.2	864.0	693.4	170.60	5.064		
20,520.0	9,773.4	19,405.3	8,969.7	86.2	83.3	-20.67	-10,432.9	-840.4	864.0	693.0	170.91	5.055		
20,600.0	9,773.5	19,485.3	8,969.8	86.8	83.9	-20.67	-10,512.9	-841.1	864.0	691.8	172.14	5.019		
20,615.0	9,773.5	19,500.3	8,969.8	86.9	84.0	-20.67	-10,527.9	-841.2	864.0	691.6	172.37	5.012		
20,700.0	9,773.6	19,585.3	8,969.8	87.5	84.6	-20.67	-10,612.9	-841.9	864.0	690.3	173.67	4.975		
20,710.0	9,773.6	19,595.3	8,969.8	87.6	84.7	-20.67	-10,622.9	-842.0	864.0	690.1	173.82	4.970		
20,800.0	9,773.6	19,685.3	8,969.9	88.2	85.4	-20.67	-10,712.9	-842.7	864.0	688.8	175.20	4.931		
20,805.0	9,773.7	19,690.3	8,969.9	88.3	85.4	-20.67	-10,717.9	-842.8	864.0	688.7	175.28	4.929		
20,900.0	9,773.7	19,785.3	8,970.0	89.0	86.1	-20.67	-10,812.9	-843.5	864.0	687.2	176.74	4.888		
20,995.0	9,773.8	19,880.3	8,970.0	89.6	86.8	-20.67	-10,907.9	-844.3	864.0	685.8	178.20	4.848		
21,000.0	9,773.8	19,885.3	8,970.0	89.7	86.8	-20.67	-10,912.9	-844.4	864.0	685.7	178.27	4.846		
21,090.0	9,773.9	19,975.3	8,970.1	90.3	87.5	-20.67	-11,002.9	-845.1	864.0	684.3	179.66	4.809		
21,100.0	9,773.9	19,985.3	8,970.1	90.4	87.6	-20.67	-11,012.9	-845.2	864.0	684.2	179.81	4.805		
21,185.0	9,773.9	20,070.3	8,970.2	91.0	88.2	-20.67	-11,097.9	-845.9	864.0	682.9	181.12	4.770		
21,200.0	9,773.9	20,085.3	8,970.2	91.1	88.3	-20.67	-11,112.9	-846.0	864.0	682.6	181.35	4.764		
21,280.0	9,774.0	20,165.3	8,970.2	91.7	88.9	-20.67	-11,192.9	-846.7	864.0	681.4	182.58	4.732		
21,300.0	9,774.0	20,185.3	8,970.2	91.9	89.1	-20.67	-11,212.9	-846.9	864.0	681.1	182.88	4.724		
21,375.0	9,774.1	20,260.3	8,970.3	92.4	89.6	-20.67	-11,287.8	-847.5	864.0	680.0	184.04	4.695		
21,400.0	9,774.1	20,285.3	8,970.3	92.6	89.8	-20.67	-11,312.8	-847.7	864.0	679.6	184.42	4.685		
21,470.0	9,774.1	20,355.3	8,970.3	93.1	90.3	-20.67	-11,382.8	-848.3	864.0	678.5	185.50	4.658		
21,500.0	9,774.2	20,385.3	8,970.4	93.3	90.5	-20.67	-11,412.8	-848.5	864.0	678.0	185.96	4.646		
21,565.0	9,774.2	20,450.3	8,970.4	93.8	91.0	-20.67	-11,477.8	-849.0	864.0	677.1	186.96	4.621		
21,600.0	9,774.2	20,485.3	8,970.4	94.1	91.3	-20.67	-11,512.8	-849.3	864.0	676.5	187.50	4.608		
21,660.0	9,774.3	20,545.3	8,970.5	94.5	91.7	-20.67	-11,572.8	-849.8	864.0	675.6	188.42	4.586		
21,700.0	9,774.3	20,585.3	8,970.5	94.8	92.0	-20.67	-11,612.8	-850.2	864.0	675.0	189.04	4.571		
21,755.0	9,774.3	20,640.3	8,970.5	95.2	92.4	-20.67	-11,667.8	-850.6	864.0	674.1	189.88	4.550		
21,800.0	9,774.4	20,685.3	8,970.6	95.5	92.8	-20.67	-11,712.8	-851.0	864.0	673.4	190.58	4.534		
21,850.0	9,774.4	20,735.3	8,970.6	95.9	93.1	-20.67	-11,762.8	-851.4	864.0	672.7	191.35	4.516		
21,900.0	9,774.4	20,785.3	8,970.6	96.2	93.5	-20.67	-11,812.8	-851.8	864.0	671.9	192.12	4.497		
21,945.0	9,774.5	20,830.3	8,970.7	96.6	93.8	-20.67	-11,857.8	-852.2	864.0	671.2	192.81	4.481		
22,000.0	9,774.5	20,885.3	8,970.7	97.0	94.2	-20.67	-11,912.8	-852.6	864.0	670.4	193.66	4.462		
22,040.0	9,774.5	20,925.3	8,970.7	97.3	94.5	-20.67	-11,952.8	-853.0	864.0	669.8	194.27	4.448		
22,100.0	9,774.6	20,985.3	8,970.8	97.7	95.0	-20.67	-12,012.8	-853.5	864.0	668.8	195.20	4.426		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8483-r.5 MWD+IFR1+MS									Rule Assigned:				Offset Well Error:	3.0 usft
Reference Offset		Offset		Semi Major Axis		Offset Wellbore Centre			Distance					
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)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
22,135.0	9,774.6	21,020.3	8,970.8	98.0	95.2	-20.67	-12,047.8	-853.8	864.0	668.3	195.74	4.414		
22,200.0	9,774.7	21,085.3	8,970.8	98.4	95.7	-20.67	-12,112.8	-854.3	864.0	667.3	196.74	4.392		
22,230.0	9,774.7	21,115.3	8,970.9	98.7	95.9	-20.67	-12,142.8	-854.5	864.0	666.8	197.20	4.382		
22,300.0	9,774.7	21,185.3	8,970.9	99.2	96.5	-20.67	-12,212.8	-855.1	864.0	665.8	198.28	4.358		
22,325.0	9,774.8	21,210.3	8,970.9	99.4	96.7	-20.67	-12,237.8	-855.3	864.0	665.4	198.66	4.349		
22,400.0	9,774.8	21,285.3	8,971.0	99.9	97.2	-20.67	-12,312.8	-856.0	864.1	664.2	199.82	4.324		
22,420.0	9,774.8	21,305.3	8,971.0	100.1	97.4	-20.67	-12,332.8	-856.1	864.1	663.9	200.13	4.317		
22,500.0	9,774.9	21,385.3	8,971.0	100.6	98.0	-20.67	-12,412.8	-856.8	864.1	662.7	201.36	4.291		
22,515.0	9,774.9	21,400.3	8,971.0	100.8	98.1	-20.67	-12,427.8	-856.9	864.1	662.5	201.59	4.286		
22,600.0	9,775.0	21,485.3	8,971.1	101.4	98.7	-20.67	-12,512.8	-857.6	864.1	661.2	202.91	4.258		
22,610.0	9,775.0	21,495.3	8,971.1	101.5	98.8	-20.67	-12,522.8	-857.7	864.1	661.0	203.06	4.255		
22,700.0	9,775.0	21,585.3	8,971.2	102.1	99.4	-20.67	-12,612.8	-858.4	864.1	659.6	204.45	4.226		
22,705.0	9,775.0	21,590.3	8,971.2	102.2	99.5	-20.67	-12,617.8	-858.5	864.1	659.5	204.52	4.225		
22,800.0	9,775.1	21,685.3	8,971.2	102.9	100.2	-20.67	-12,712.8	-859.3	864.1	658.1	205.99	4.195		
22,895.0	9,775.2	21,780.3	8,971.3	103.6	100.9	-20.67	-12,807.8	-860.0	864.1	656.6	207.46	4.165		
22,900.0	9,775.2	21,785.3	8,971.3	103.6	100.9	-20.67	-12,812.8	-860.1	864.1	656.5	207.53	4.164		
22,990.0	9,775.2	21,875.3	8,971.4	104.3	101.6	-20.67	-12,902.8	-860.8	864.1	655.2	208.92	4.136		
23,000.0	9,775.2	21,885.3	8,971.4	104.3	101.7	-20.67	-12,912.8	-860.9	864.1	655.0	209.08	4.133		
23,085.0	9,775.3	21,970.3	8,971.4	105.0	102.3	-20.67	-12,997.8	-861.6	864.1	653.7	210.39	4.107		
23,100.0	9,775.3	21,985.3	8,971.4	105.1	102.4	-20.67	-13,012.8	-861.7	864.1	653.5	210.62	4.103		
23,180.0	9,775.4	22,065.3	8,971.5	105.7	103.0	-20.67	-13,092.8	-862.4	864.1	652.2	211.86	4.079		
23,200.0	9,775.4	22,085.3	8,971.5	105.8	103.2	-20.67	-13,112.8	-862.6	864.1	651.9	212.17	4.073		
23,275.0	9,775.4	22,160.3	8,971.6	106.4	103.7	-20.67	-13,187.8	-863.2	864.1	650.8	213.33	4.051		
23,300.0	9,775.5	22,185.3	8,971.6	106.5	103.9	-20.67	-13,212.8	-863.4	864.1	650.4	213.71	4.043		
23,370.0	9,775.5	22,255.3	8,971.6	107.1	104.4	-20.67	-13,282.8	-864.0	864.1	649.3	214.79	4.023		
23,400.0	9,775.5	22,285.3	8,971.6	107.3	104.7	-20.67	-13,312.8	-864.2	864.1	648.8	215.26	4.014		
23,465.0	9,775.6	22,350.3	8,971.7	107.8	105.1	-20.67	-13,377.8	-864.8	864.1	647.8	216.26	3.996		
23,500.0	9,775.6	22,385.3	8,971.7	108.0	105.4	-20.67	-13,412.8	-865.0	864.1	647.3	216.80	3.986		
23,560.0	9,775.6	22,445.3	8,971.7	108.5	105.8	-20.67	-13,472.8	-865.5	864.1	646.4	217.73	3.969		
23,600.0	9,775.7	22,485.3	8,971.8	108.8	106.1	-20.67	-13,512.8	-865.9	864.1	645.8	218.35	3.958		
23,655.0	9,775.7	22,540.3	8,971.8	109.2	106.6	-20.67	-13,567.8	-866.3	864.1	644.9	219.20	3.942		
23,700.0	9,775.7	22,585.3	8,971.8	109.5	106.9	-20.67	-13,612.8	-866.7	864.1	644.2	219.89	3.930		
23,750.0	9,775.8	22,635.3	8,971.9	109.9	107.3	-20.67	-13,662.8	-867.1	864.1	643.5	220.67	3.916		
23,800.0	9,775.8	22,685.3	8,971.9	110.2	107.6	-20.67	-13,712.8	-867.5	864.1	642.7	221.44	3.902		
23,845.0	9,775.9	22,730.3	8,971.9	110.6	108.0	-20.67	-13,757.8	-867.9	864.1	642.0	222.14	3.890		
23,900.0	9,775.9	22,785.3	8,972.0	111.0	108.4	-20.67	-13,812.8	-868.4	864.1	641.1	222.99	3.875		
23,940.0	9,775.9	22,825.3	8,972.0	111.3	108.7	-20.67	-13,852.8	-868.7	864.1	640.5	223.60	3.865		
24,000.0	9,776.0	22,885.3	8,972.0	111.7	109.1	-20.67	-13,912.8	-869.2	864.1	639.6	224.53	3.849		
24,035.0	9,776.0	22,920.3	8,972.1	112.0	109.4	-20.67	-13,947.8	-869.5	864.1	639.1	225.07	3.839		
24,100.0	9,776.0	22,985.3	8,972.1	112.5	109.9	-20.67	-14,012.8	-870.0	864.1	638.1	226.08	3.822		
24,130.0	9,776.1	23,015.3	8,972.1	112.7	110.1	-20.67	-14,042.8	-870.3	864.1	637.6	226.54	3.814		
24,200.0	9,776.1	23,085.3	8,972.2	113.2	110.6	-20.67	-14,112.8	-870.8	864.1	636.5	227.63	3.796		
24,225.0	9,776.1	23,110.3	8,972.2	113.4	110.8	-20.67	-14,137.8	-871.0	864.1	636.1	228.01	3.790		
24,300.0	9,776.2	23,185.3	8,972.2	113.9	111.4	-20.67	-14,212.7	-871.7	864.1	635.0	229.17	3.771		
24,320.0	9,776.2	23,205.3	8,972.3	114.1	111.5	-20.67	-14,232.7	-871.8	864.2	634.7	229.48	3.766		
24,400.0	9,776.3	23,285.3	8,972.3	114.7	112.1	-20.67	-14,312.7	-872.5	864.2	633.4	230.72	3.745		
24,415.0	9,776.3	23,300.3	8,972.3	114.8	112.2	-20.67	-14,327.7	-872.6	864.2	633.2	230.95	3.742		
24,500.0	9,776.3	23,385.3	8,972.4	115.4	112.9	-20.67	-14,412.7	-873.3	864.2	631.9	232.27	3.721		
24,510.0	9,776.3	23,395.3	8,972.4	115.5	112.9	-20.67	-14,422.7	-873.4	864.2	631.7	232.42	3.718		
24,600.0	9,776.4	23,485.3	8,972.4	116.2	113.6	-20.67	-14,512.7	-874.1	864.2	630.3	233.82	3.696		
24,605.0	9,776.4	23,490.3	8,972.4	116.2	113.7	-20.67	-14,517.7	-874.2	864.2	630.3	233.90	3.695		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design:		FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1										Offset Site Error:		0.0 usft	
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8483-r.5 MWD+IFR1+MS										Offset Well Error:		3.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance		Rule Assigned:		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)	Separation Factor			
24,700.0	9,776.5	23,585.3	8,972.5	116.9	114.4	-20.67	-14,612.7	-875.0	864.2	628.8	235.37	3.672			
24,795.0	9,776.5	23,680.3	8,972.6	117.6	115.1	-20.67	-14,707.7	-875.8	864.2	627.3	236.84	3.649			
24,800.0	9,776.5	23,685.3	8,972.6	117.6	115.1	-20.67	-14,712.7	-875.8	864.2	627.3	236.91	3.648			
24,890.0	9,776.6	23,775.3	8,972.6	118.3	115.8	-20.67	-14,802.7	-876.5	864.2	625.9	238.31	3.626			
24,900.0	9,776.6	23,785.3	8,972.6	118.4	115.9	-20.67	-14,812.7	-876.6	864.2	625.7	238.46	3.624			
24,985.0	9,776.7	23,870.3	8,972.7	119.0	116.5	-20.67	-14,897.7	-877.3	864.2	624.4	239.78	3.604			
25,000.0	9,776.7	23,885.3	8,972.7	119.1	116.6	-20.67	-14,912.7	-877.5	864.2	624.2	240.01	3.601			
25,080.0	9,776.7	23,965.3	8,972.8	119.7	117.2	-20.67	-14,992.7	-878.1	864.2	622.9	241.25	3.582			
25,100.0	9,776.8	23,985.3	8,972.8	119.9	117.4	-20.67	-15,012.7	-878.3	864.2	622.6	241.56	3.578			
25,175.0	9,776.8	24,060.3	8,972.8	120.4	117.9	-20.67	-15,087.7	-878.9	864.2	621.5	242.72	3.560			
25,200.0	9,776.8	24,085.3	8,972.8	120.6	118.1	-20.67	-15,112.7	-879.1	864.2	621.1	243.11	3.555			
25,270.0	9,776.9	24,155.3	8,972.9	121.1	118.6	-20.66	-15,182.7	-879.7	864.2	620.0	244.20	3.539			
25,300.6	9,776.9	24,186.0	8,972.9	121.4	118.9	-20.66	-15,213.4	-879.9	864.2	619.5	244.67	3.532			
25,365.0	9,777.0	24,250.3	8,973.0	121.8	119.4	-20.66	-15,277.7	-880.5	864.2	618.5	245.67	3.518			
25,400.0	9,777.0	24,285.3	8,973.0	122.1	119.6	-20.66	-15,312.7	-880.8	864.2	618.0	246.21	3.510			
25,430.7	9,777.0	24,316.0	8,973.0	122.3	119.8	-20.66	-15,343.4	-881.0	864.2	617.5	246.69	3.503 SF			

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8530-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	4.5	4.5	3.0	3.0	179.12	-149.9	2.3	149.9				
95.0	95.0	99.5	99.5	3.0	3.0	179.12	-149.9	2.3	149.9	143.9	6.04	24.828	
100.0	100.0	104.5	104.5	3.0	3.0	179.12	-149.9	2.3	149.9	143.9	6.04	24.802	
190.0	190.0	194.5	194.5	3.1	3.1	179.12	-149.9	2.3	149.9	143.7	6.27	23.925	
200.0	200.0	204.5	204.5	3.1	3.2	179.12	-149.9	2.3	149.9	143.6	6.30	23.803	
285.0	285.0	289.5	289.5	3.3	3.3	179.12	-149.9	2.3	149.9	143.4	6.51	23.037	
300.0	300.0	304.5	304.5	3.3	3.3	179.12	-149.9	2.3	149.9	143.4	6.55	22.893	
380.0	380.0	384.5	384.5	3.4	3.4	179.12	-149.9	2.3	149.9	143.2	6.74	22.228	
400.0	400.0	404.5	404.5	3.4	3.4	179.12	-149.9	2.3	149.9	143.1	6.80	22.057	
475.0	475.0	479.5	479.5	3.5	3.5	179.12	-149.9	2.3	149.9	142.9	6.98	21.479	
500.0	500.0	504.5	504.5	3.5	3.5	179.12	-149.9	2.3	149.9	142.9	7.04	21.285	
570.0	570.0	574.5	574.5	3.6	3.6	179.12	-149.9	2.3	149.9	142.7	7.21	20.784	
600.0	600.0	604.5	604.5	3.6	3.6	179.12	-149.9	2.3	149.9	142.6	7.29	20.569	
665.0	665.0	669.5	669.5	3.7	3.7	179.12	-149.9	2.3	149.9	142.5	7.45	20.136	
700.0	700.0	704.5	704.5	3.8	3.8	179.12	-149.9	2.3	149.9	142.4	7.53	19.904	
760.0	760.0	764.5	764.5	3.8	3.8	179.12	-149.9	2.3	149.9	142.2	7.68	19.530	
800.0	800.0	804.5	804.5	3.9	3.9	179.12	-149.9	2.3	149.9	142.1	7.77	19.283	
855.0	855.0	859.5	859.5	4.0	4.0	179.12	-149.9	2.3	149.9	142.0	7.91	18.962	
900.0	900.0	904.5	904.5	4.0	4.0	179.12	-149.9	2.3	149.9	141.9	8.02	18.702	
950.0	950.0	954.5	954.5	4.1	4.1	179.12	-149.9	2.3	149.9	141.8	8.14	18.428	
1,000.0	1,000.0	1,004.5	1,004.5	4.1	4.1	179.12	-149.9	2.3	149.9	141.7	8.26	18.158	
1,045.0	1,045.0	1,049.5	1,049.5	4.2	4.2	179.12	-149.9	2.3	149.9	141.6	8.36	17.926	
1,100.0	1,100.0	1,104.5	1,104.5	4.2	4.3	179.12	-149.9	2.3	149.9	141.4	8.50	17.646	
1,140.0	1,140.0	1,144.5	1,144.5	4.3	4.3	179.12	-149.9	2.3	149.9	141.3	8.59	17.451	
1,200.0	1,200.0	1,204.5	1,204.5	4.4	4.4	179.12	-149.9	2.3	149.9	141.2	8.73	17.164	
1,235.0	1,235.0	1,239.5	1,239.5	4.4	4.4	179.12	-149.9	2.3	149.9	141.1	8.82	17.003	
1,300.0	1,300.0	1,304.5	1,304.5	4.5	4.5	179.12	-149.9	2.3	149.9	140.9	8.97	16.709	
1,330.0	1,330.0	1,334.5	1,334.5	4.5	4.5	179.12	-149.9	2.3	149.9	140.9	9.04	16.578	
1,400.0	1,400.0	1,404.5	1,404.5	4.6	4.6	179.12	-149.9	2.3	149.9	140.7	9.21	16.279	
1,425.0	1,425.0	1,429.5	1,429.5	4.6	4.6	179.12	-149.9	2.3	149.9	140.6	9.27	16.175	
1,500.0	1,500.0	1,504.6	1,504.6	4.7	4.7	179.12	-149.9	2.3	149.9	140.5	9.45	15.872	
1,508.2	1,508.2	1,512.9	1,512.9	4.7	4.7	-113.34	-149.9	2.3	149.9	140.5	9.46	15.842 CC	
1,520.0	1,520.0	1,524.8	1,524.8	4.7	4.7	-113.33	-149.9	2.2	149.9	140.4	9.49	15.800 ES	
1,600.0	1,600.0	1,605.9	1,605.9	4.8	4.8	-113.24	-149.4	0.4	150.1	140.5	9.67	15.532	
1,615.0	1,615.0	1,621.1	1,621.1	4.9	4.9	-113.22	-149.3	-0.2	150.2	140.5	9.71	15.462	
1,700.0	1,699.8	1,707.2	1,707.0	5.0	5.0	-113.04	-148.1	-5.0	150.8	140.8	9.99	15.093	
1,710.0	1,709.8	1,717.3	1,717.1	5.1	5.0	-113.02	-147.9	-5.7	150.9	140.9	10.02	15.054	
1,800.0	1,799.5	1,808.5	1,807.9	5.3	5.3	-112.76	-146.0	-13.8	152.0	141.7	10.32	14.733	
1,805.0	1,804.4	1,813.6	1,813.0	5.3	5.3	-112.74	-145.8	-14.4	152.1	141.7	10.33	14.717	
1,900.0	1,898.7	1,909.8	1,908.4	5.6	5.6	-112.39	-143.0	-26.1	153.7	143.0	10.64	14.440	
1,995.0	1,992.5	2,006.0	2,003.4	5.9	5.9	-111.96	-139.3	-41.0	155.8	144.8	10.96	14.214	
2,000.0	1,997.5	2,011.1	2,008.3	5.9	5.9	-111.94	-139.1	-41.9	155.9	144.9	10.97	14.203	
2,090.0	2,085.8	2,102.1	2,097.7	6.2	6.2	-111.48	-134.9	-58.9	158.3	147.0	11.28	14.031	
2,100.0	2,095.6	2,112.3	2,107.6	6.2	6.3	-111.42	-134.4	-61.0	158.6	147.2	11.31	14.013	
2,185.0	2,178.5	2,198.3	2,191.4	6.6	6.6	-110.94	-129.8	-80.0	161.2	149.6	11.61	13.881	
2,199.9	2,193.0	2,213.2	2,205.9	6.6	6.6	-110.86	-128.9	-83.5	161.7	150.1	11.67	13.861	
2,280.0	2,270.7	2,293.2	2,283.5	6.9	6.9	-110.56	-124.3	-102.3	164.6	152.6	11.96	13.764	
2,300.0	2,290.1	2,313.2	2,302.9	6.9	6.9	-110.49	-123.2	-107.0	165.3	153.2	12.03	13.739	
2,375.0	2,362.9	2,388.2	2,375.6	7.2	7.2	-110.23	-118.9	-124.6	167.9	155.6	12.31	13.642	
2,400.0	2,387.1	2,413.1	2,399.9	7.3	7.3	-110.14	-117.4	-130.5	168.8	156.4	12.40	13.609	
2,470.0	2,455.0	2,483.1	2,467.7	7.5	7.5	-109.90	-113.4	-146.9	171.3	158.6	12.67	13.514	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1												Offset Site Error:	0.0 usft	
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8530-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)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
2,500.0	2,484.1	2,513.1	2,496.8	7.6	7.6	-109.80	-111.7	-153.9	172.3	159.6	12.79	13.474		
2,565.0	2,547.2	2,578.0	2,559.9	7.8	7.9	-109.59	-108.0	-169.2	174.6	161.6	13.05	13.384		
2,600.0	2,581.2	2,613.0	2,593.8	8.0	8.0	-109.48	-106.0	-177.4	175.9	162.7	13.19	13.336		
2,660.0	2,639.4	2,673.0	2,652.0	8.2	8.2	-109.29	-102.5	-191.5	178.0	164.6	13.43	13.252		
2,700.0	2,678.2	2,712.9	2,690.8	8.3	8.4	-109.17	-100.2	-200.9	179.4	165.8	13.60	13.198		
2,755.0	2,731.6	2,767.9	2,744.1	8.5	8.6	-109.00	-97.1	-213.8	181.4	167.6	13.83	13.121		
2,800.0	2,775.2	2,812.9	2,787.7	8.7	8.8	-108.87	-94.5	-224.4	183.0	169.0	14.01	13.059		
2,850.0	2,823.8	2,862.8	2,836.2	8.9	9.0	-108.73	-91.6	-236.1	184.8	170.6	14.23	12.989		
2,900.0	2,872.3	2,912.8	2,884.7	9.1	9.2	-108.58	-88.7	-247.9	186.6	172.1	14.44	12.922		
2,945.0	2,915.9	2,957.8	2,928.3	9.3	9.3	-108.46	-86.1	-258.5	188.2	173.5	14.63	12.860		
3,000.0	2,969.3	3,012.7	2,981.6	9.5	9.6	-108.31	-83.0	-271.4	190.1	175.3	14.87	12.787		
3,040.0	3,008.1	3,052.7	3,020.4	9.7	9.7	-108.20	-80.7	-280.8	191.6	176.5	15.04	12.733		
3,100.0	3,066.3	3,112.7	3,078.6	9.9	10.0	-108.04	-77.2	-294.9	193.7	178.4	15.31	12.654		
3,135.0	3,100.3	3,147.6	3,112.6	10.1	10.1	-107.95	-75.2	-303.1	195.0	179.5	15.46	12.608		
3,200.0	3,163.4	3,212.6	3,175.6	10.4	10.4	-107.79	-71.5	-318.3	197.3	181.5	15.75	12.525		
3,230.0	3,192.5	3,242.6	3,204.7	10.5	10.5	-107.71	-69.8	-325.4	198.4	182.5	15.89	12.487		
3,300.0	3,260.4	3,312.5	3,272.5	10.8	10.8	-107.54	-65.8	-341.8	200.9	184.7	16.20	12.399		
3,325.0	3,284.6	3,337.5	3,296.8	10.9	10.9	-107.48	-64.3	-347.7	201.8	185.4	16.31	12.368		
3,400.0	3,357.4	3,412.5	3,369.5	11.2	11.3	-107.30	-60.0	-365.3	204.4	187.8	16.65	12.277		
3,420.0	3,376.8	3,432.5	3,388.9	11.3	11.3	-107.25	-58.9	-370.0	205.2	188.4	16.74	12.253		
3,500.0	3,454.4	3,512.4	3,466.5	11.6	11.7	-107.07	-54.3	-388.8	208.0	190.9	17.11	12.159		
3,515.0	3,469.0	3,527.4	3,481.0	11.7	11.8	-107.04	-53.4	-392.3	208.6	191.4	17.18	12.141		
3,600.0	3,551.5	3,612.3	3,563.4	12.1	12.1	-106.85	-48.5	-412.3	211.6	194.0	17.57	12.044		
3,610.0	3,561.2	3,622.3	3,573.1	12.1	12.2	-106.83	-48.0	-414.6	212.0	194.4	17.62	12.033		
3,700.0	3,648.5	3,712.3	3,660.4	12.5	12.6	-106.63	-42.8	-435.8	215.2	197.2	18.03	11.933		
3,705.0	3,653.4	3,717.3	3,665.2	12.6	12.6	-106.62	-42.5	-436.9	215.4	197.3	18.06	11.928		
3,800.0	3,745.5	3,812.2	3,757.4	13.0	13.0	-106.42	-37.0	-459.3	218.8	200.3	18.50	11.826		
3,895.0	3,837.7	3,907.1	3,849.5	13.4	13.5	-106.23	-31.6	-481.6	222.2	203.3	18.95	11.728		
3,900.0	3,842.6	3,912.1	3,854.3	13.4	13.5	-106.22	-31.3	-482.7	222.4	203.4	18.97	11.723		
3,990.0	3,929.9	4,002.1	3,941.6	13.8	13.9	-106.05	-26.1	-503.9	225.6	206.2	19.40	11.633		
4,000.0	3,939.6	4,012.1	3,951.3	13.9	13.9	-106.03	-25.6	-506.2	226.0	206.6	19.44	11.623		
4,085.0	4,022.1	4,097.0	4,033.7	14.3	14.3	-105.87	-20.7	-526.2	229.1	209.2	19.85	11.541		
4,100.0	4,036.6	4,112.0	4,048.2	14.3	14.4	-105.84	-19.8	-529.7	229.6	209.7	19.92	11.527		
4,180.0	4,114.3	4,191.9	4,125.8	14.7	14.8	-105.69	-15.2	-548.5	232.5	212.2	20.30	11.452		
4,200.0	4,133.7	4,211.9	4,145.2	14.8	14.8	-105.66	-14.1	-553.2	233.2	212.8	20.40	11.434		
4,275.0	4,206.4	4,286.9	4,217.9	15.1	15.2	-105.52	-9.8	-570.8	235.9	215.2	20.76	11.367		
4,300.0	4,230.7	4,311.9	4,242.2	15.3	15.3	-105.48	-8.3	-576.7	236.8	215.9	20.88	11.345		
4,370.0	4,298.6	4,381.8	4,310.0	15.6	15.6	-105.36	-4.3	-593.1	239.3	218.1	21.21	11.284		
4,400.0	4,327.7	4,411.8	4,339.1	15.7	15.8	-105.31	-2.6	-600.2	240.4	219.1	21.36	11.258		
4,465.0	4,390.8	4,476.7	4,402.2	16.0	16.1	-105.20	1.1	-615.4	242.8	221.1	21.67	11.204		
4,500.0	4,424.7	4,511.7	4,436.1	16.2	16.2	-105.14	3.2	-623.7	244.0	222.2	21.84	11.175		
4,560.0	4,483.0	4,571.7	4,494.3	16.5	16.5	-105.04	6.6	-637.7	246.2	224.1	22.13	11.126		
4,600.0	4,521.8	4,611.7	4,533.1	16.6	16.7	-104.98	8.9	-647.1	247.7	225.3	22.32	11.094		
4,655.0	4,575.1	4,666.6	4,586.4	16.9	17.0	-104.89	12.1	-660.1	249.6	227.1	22.59	11.051		
4,700.0	4,618.8	4,711.6	4,630.0	17.1	17.2	-104.82	14.6	-670.6	251.3	228.5	22.81	11.017		
4,750.0	4,667.3	4,761.6	4,678.5	17.4	17.4	-104.74	17.5	-682.4	253.1	230.0	23.05	10.979		
4,800.0	4,715.8	4,811.5	4,727.0	17.6	17.6	-104.67	20.4	-694.1	254.9	231.6	23.30	10.942		
4,845.0	4,759.5	4,856.5	4,770.6	17.8	17.8	-104.60	23.0	-704.7	256.5	233.0	23.52	10.909		
4,900.0	4,812.9	4,911.5	4,824.0	18.1	18.1	-104.52	26.1	-717.6	258.5	234.7	23.78	10.869		
4,940.0	4,851.7	4,951.4	4,862.7	18.2	18.3	-104.46	28.4	-727.0	260.0	236.0	23.98	10.841		
5,000.0	4,909.9	5,011.4	4,920.9	18.5	18.6	-104.37	31.9	-741.1	262.1	237.9	24.27	10.799		

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

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Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8530-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Rule Assigned:												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
5,035.0	4,943.9	5,046.4	4,954.9	18.7	18.7	-104.32		33.9	-749.3	263.4	239.0	24.44	10.775
5,100.0	5,006.9	5,111.3	5,017.9	19.0	19.0	-104.23		37.6	-764.6	265.8	241.0	24.76	10.732
5,130.0	5,036.0	5,141.3	5,047.0	19.1	19.2	-104.19		39.3	-771.6	266.8	241.9	24.91	10.712
5,200.0	5,104.0	5,211.2	5,114.8	19.5	19.5	-104.10		43.4	-788.1	269.4	244.1	25.26	10.666
5,225.0	5,128.2	5,236.2	5,139.1	19.6	19.6	-104.06		44.8	-793.9	270.3	244.9	25.38	10.650
5,300.0	5,201.0	5,311.2	5,211.8	19.9	20.0	-103.96		49.1	-811.5	273.0	247.3	25.75	10.603
5,320.0	5,220.4	5,331.2	5,231.2	20.0	20.1	-103.94		50.2	-816.2	273.7	247.9	25.85	10.591
5,400.0	5,298.0	5,411.1	5,308.8	20.4	20.5	-103.83		54.8	-835.0	276.6	250.4	26.24	10.542
5,415.0	5,312.6	5,426.1	5,323.3	20.5	20.5	-103.81		55.7	-838.6	277.2	250.9	26.32	10.533
5,500.0	5,395.1	5,511.0	5,405.7	20.9	20.9	-103.71		60.6	-858.5	280.3	253.5	26.74	10.483
5,510.0	5,404.8	5,521.0	5,415.4	20.9	21.0	-103.69		61.2	-860.9	280.6	253.8	26.79	10.477
5,600.0	5,492.1	5,611.0	5,502.7	21.4	21.4	-103.58		66.3	-882.0	283.9	256.7	27.23	10.425
5,605.0	5,496.9	5,616.0	5,507.5	21.4	21.4	-103.58		66.6	-883.2	284.1	256.8	27.26	10.423
5,700.0	5,589.1	5,710.9	5,599.7	21.8	21.9	-103.46		72.1	-905.5	287.5	259.8	27.73	10.370
5,795.0	5,681.3	5,805.8	5,691.8	22.3	22.3	-103.35		77.5	-927.8	291.0	262.8	28.20	10.319
5,800.0	5,686.1	5,810.8	5,696.6	22.3	22.4	-103.35		77.8	-929.0	291.2	262.9	28.22	10.316
5,890.0	5,773.5	5,900.8	5,783.9	22.8	22.8	-103.24		83.0	-950.1	294.4	265.8	28.67	10.269
5,900.0	5,783.2	5,910.8	5,793.6	22.8	22.8	-103.23		83.6	-952.5	294.8	266.1	28.72	10.264
5,985.0	5,865.6	5,995.7	5,876.0	23.2	23.3	-103.14		88.4	-972.4	297.9	268.7	29.14	10.221
6,000.0	5,880.2	6,010.7	5,890.5	23.3	23.3	-103.12		89.3	-975.9	298.4	269.2	29.22	10.213
6,080.0	5,957.8	6,090.7	5,968.1	23.7	23.7	-103.03		93.9	-994.7	301.3	271.7	29.62	10.174
6,100.0	5,977.2	6,110.6	5,987.5	23.8	23.8	-103.01		95.0	-999.4	302.1	272.3	29.72	10.164
6,175.0	6,050.0	6,185.6	6,060.2	24.1	24.2	-102.93		99.3	-1,017.0	304.8	274.7	30.09	10.129
6,200.0	6,074.3	6,210.6	6,084.5	24.2	24.3	-102.91		100.8	-1,022.9	305.7	275.5	30.22	10.117
6,218.3	6,092.0	6,228.9	6,102.2	24.3	24.4	-102.89		101.8	-1,027.2	306.4	276.1	30.30	10.111
6,270.0	6,142.3	6,280.5	6,152.3	24.6	24.6	-102.78		104.8	-1,039.4	308.1	277.6	30.54	10.091
6,300.0	6,171.6	6,310.5	6,181.4	24.7	24.8	-102.65		106.5	-1,046.4	309.1	278.4	30.66	10.081
6,365.0	6,235.2	6,375.4	6,244.4	25.0	25.1	-102.15		110.3	-1,061.7	310.9	280.0	30.89	10.064
6,400.0	6,269.6	6,410.3	6,278.3	25.2	25.2	-101.78		112.3	-1,069.9	311.8	280.8	31.00	10.056
6,460.0	6,328.7	6,470.1	6,336.3	25.5	25.5	-100.96		115.7	-1,083.9	313.1	281.9	31.16	10.048
6,500.0	6,368.3	6,510.0	6,375.0	25.7	25.7	-100.29		118.0	-1,093.3	313.9	282.6	31.25	10.044
6,555.0	6,422.7	6,564.6	6,428.0	25.9	26.0	-99.22		121.1	-1,106.1	314.9	283.5	31.36	10.042
6,600.0	6,467.4	6,609.2	6,471.3	26.1	26.2	-98.21		123.7	-1,116.6	315.7	284.3	31.44	10.040
6,650.0	6,517.2	6,658.7	6,519.3	26.3	26.4	-96.95		126.5	-1,128.2	316.6	285.1	31.54	10.039
6,700.0	6,567.0	6,708.1	6,567.2	26.5	26.7	-95.55		129.4	-1,139.8	317.6	286.0	31.65	10.034
6,745.0	6,611.9	6,752.4	6,610.2	26.7	26.9	-94.17		131.9	-1,150.3	318.6	286.8	31.77	10.029
6,800.0	6,666.8	6,806.8	6,663.0	26.9	27.1	-92.37		135.0	-1,162.8	320.0	288.1	31.96	10.015
6,840.0	6,706.8	6,846.6	6,701.8	27.0	27.3	-91.05		137.1	-1,171.5	321.2	289.1	32.13	9.997
6,900.0	6,766.8	6,906.5	6,760.5	27.2	27.6	-89.09		140.1	-1,183.5	323.1	290.6	32.45	9.955
6,918.2	6,785.0	6,924.8	6,778.4	27.2	27.7	-156.03		140.9	-1,186.9	323.7	291.2	32.55	9.944
6,935.0	6,801.8	6,941.6	6,794.9	27.2	27.8	-155.48		141.6	-1,190.0	324.3	291.6	32.65	9.931
7,000.0	6,866.8	7,007.2	6,859.5	27.2	28.1	-153.52		144.3	-1,201.0	326.6	293.5	33.07	9.876
7,030.0	6,896.8	7,037.6	6,889.5	27.2	28.2	-152.71		145.5	-1,205.7	327.7	294.4	33.27	9.850
7,100.0	6,966.8	7,109.0	6,960.2	27.2	28.6	-151.03		147.8	-1,215.3	330.1	296.4	33.73	9.788
7,125.0	6,991.8	7,134.6	6,985.6	27.2	28.7	-150.51		148.6	-1,218.3	331.0	297.1	33.88	9.768
7,200.0	7,066.8	7,211.7	7,062.3	27.3	29.0	-149.18		150.5	-1,226.2	333.2	298.9	34.32	9.709
7,220.0	7,086.8	7,232.4	7,082.9	27.3	29.1	-148.88		150.9	-1,227.9	333.7	299.3	34.42	9.695
7,300.0	7,166.8	7,315.1	7,165.5	27.3	29.4	-147.94		152.3	-1,233.5	335.4	300.6	34.78	9.644
7,315.0	7,181.8	7,330.7	7,181.0	27.3	29.4	-147.81		152.5	-1,234.3	335.7	300.8	34.83	9.636
7,400.0	7,266.8	7,419.0	7,269.2	27.3	29.7	-147.33		153.2	-1,237.2	336.6	301.5	35.07	9.599
7,410.0	7,276.8	7,429.4	7,279.6	27.3	29.7	-147.30		153.2	-1,237.4	336.6	301.6	35.08	9.596

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8530-r.5 MWD+IFR1+MS						Rule Assigned:				Offset Well Error:	3.0 usft	
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum 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)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
7,500.0	7,366.8	7,521.0	7,371.3	27.4	29.8	-147.24	153.3	-1,237.7	336.7	301.6	35.18	9.573		
7,505.0	7,371.8	7,526.0	7,376.3	27.4	29.8	-147.24	153.3	-1,237.7	336.7	301.6	35.18	9.572		
7,600.0	7,466.8	7,621.0	7,471.3	27.4	29.8	-147.24	153.3	-1,237.7	336.7	301.5	35.29	9.544		
7,695.0	7,561.8	7,716.0	7,566.3	27.4	29.9	-147.24	153.3	-1,237.7	336.7	301.4	35.39	9.515		
7,700.0	7,566.8	7,721.0	7,571.3	27.4	29.9	-147.24	153.3	-1,237.7	336.7	301.4	35.40	9.514		
7,790.0	7,656.8	7,811.0	7,661.3	27.5	29.9	-147.24	153.3	-1,237.7	336.7	301.3	35.49	9.487		
7,800.0	7,666.8	7,821.0	7,671.3	27.5	29.9	-147.24	153.3	-1,237.7	336.7	301.2	35.51	9.484		
7,885.0	7,751.8	7,906.0	7,756.3	27.5	29.9	-147.24	153.3	-1,237.7	336.7	301.1	35.60	9.459		
7,900.0	7,766.8	7,921.0	7,771.3	27.5	29.9	-147.24	153.3	-1,237.7	336.7	301.1	35.62	9.455		
7,980.0	7,846.8	8,001.0	7,851.3	27.5	29.9	-147.24	153.3	-1,237.7	336.7	301.0	35.71	9.431		
8,000.0	7,866.8	8,021.0	7,871.3	27.5	29.9	-147.24	153.3	-1,237.7	336.7	301.0	35.73	9.425		
8,075.0	7,941.8	8,096.0	7,946.3	27.6	30.0	-147.24	153.3	-1,237.7	336.7	300.9	35.81	9.403		
8,100.0	7,966.8	8,121.0	7,971.3	27.6	30.0	-147.24	153.3	-1,237.7	336.7	300.9	35.84	9.396		
8,170.0	8,036.8	8,191.0	8,041.3	27.6	30.0	-147.24	153.3	-1,237.7	336.7	300.8	35.92	9.375		
8,200.0	8,066.8	8,221.0	8,071.3	27.6	30.0	-147.24	153.3	-1,237.7	336.7	300.8	35.95	9.367		
8,265.0	8,131.8	8,286.0	8,136.3	27.6	30.0	-147.24	153.3	-1,237.7	336.7	300.7	36.03	9.348		
8,300.0	8,166.8	8,321.0	8,171.3	27.6	30.0	-147.24	153.3	-1,237.7	336.7	300.7	36.06	9.337		
8,360.0	8,226.8	8,381.0	8,231.3	27.6	30.0	-147.24	153.3	-1,237.7	336.7	300.6	36.13	9.320		
8,400.0	8,266.8	8,421.0	8,271.3	27.7	30.1	-147.24	153.3	-1,237.7	336.7	300.6	36.18	9.308		
8,455.0	8,321.8	8,476.0	8,326.3	27.7	30.1	-147.24	153.3	-1,237.7	336.7	300.5	36.24	9.292		
8,500.0	8,366.8	8,521.0	8,371.3	27.7	30.1	-147.24	153.3	-1,237.7	336.7	300.5	36.28	9.281		
8,501.8	8,368.6	8,522.8	8,373.1	27.7	30.1	-147.24	153.3	-1,237.7	336.7	300.5	36.29	9.280		
8,550.0	8,416.8	8,550.0	8,400.3	27.7	30.1	-147.28	152.9	-1,237.7	337.7	301.2	36.54	9.242		
8,600.0	8,466.8	8,590.5	8,440.6	27.7	30.1	-147.53	150.1	-1,237.7	340.8	304.2	36.63	9.305		
8,645.0	8,511.8	8,620.0	8,469.9	27.7	30.1	-147.88	146.2	-1,237.8	345.9	309.2	36.72	9.419		
8,700.0	8,566.8	8,650.0	8,499.4	27.8	30.1	-148.35	140.7	-1,237.8	354.8	318.0	36.82	9.637		
8,740.0	8,606.8	8,680.7	8,529.2	27.8	30.1	-148.95	133.5	-1,237.9	363.0	326.3	36.76	9.876		
8,800.0	8,666.8	8,717.3	8,564.3	27.8	30.1	-149.81	122.9	-1,238.0	378.3	341.6	36.69	10.311		
8,835.0	8,701.8	8,738.0	8,583.7	27.8	30.1	-150.35	115.9	-1,238.0	388.8	352.1	36.63	10.614		
8,900.0	8,766.8	8,775.0	8,617.8	27.8	30.1	-151.39	101.6	-1,238.1	411.1	374.7	36.49	11.268		
8,930.0	8,796.8	8,800.0	8,640.4	27.8	30.1	-152.14	90.8	-1,238.2	422.9	386.5	36.36	11.629		
9,000.0	8,866.8	8,827.8	8,664.8	27.9	30.1	-153.01	77.5	-1,238.3	452.7	416.4	36.25	12.488		
9,025.0	8,891.8	8,850.0	8,683.8	27.9	30.1	-153.72	66.1	-1,238.4	464.5	428.4	36.14	12.851		
9,100.0	8,966.8	8,875.6	8,705.2	27.9	30.1	-154.54	52.1	-1,238.5	502.1	466.0	36.04	13.932		
9,120.0	8,986.8	8,884.6	8,712.6	27.9	30.1	-154.83	46.9	-1,238.6	512.8	476.8	36.00	14.244		
9,200.0	9,066.8	8,918.5	8,739.6	27.9	30.2	-155.92	26.5	-1,238.7	558.3	522.5	35.88	15.560		
9,215.0	9,081.8	8,924.5	8,744.3	28.0	30.2	-156.11	22.6	-1,238.8	567.3	531.4	35.86	15.818		
9,300.0	9,166.8	8,950.0	8,763.6	28.0	30.2	-156.92	6.0	-1,238.9	620.6	584.8	35.82	17.328		
9,310.0	9,176.8	8,950.0	8,763.6	28.0	30.2	-156.92	6.0	-1,238.9	627.3	591.4	35.82	17.511		
9,326.3	9,193.0	8,966.1	8,775.4	28.0	30.2	-157.43	-4.9	-1,239.0	637.8	602.0	35.78	17.824		
9,350.0	9,216.8	8,974.4	8,781.4	28.0	30.2	21.10	-10.7	-1,239.1	653.3	617.5	35.75	18.273		
9,400.0	9,266.6	9,000.0	8,799.2	28.0	30.2	19.11	-29.1	-1,239.2	684.6	648.9	35.76	19.144		
9,405.0	9,271.5	9,000.0	8,799.2	28.0	30.2	18.99	-29.1	-1,239.2	687.6	651.8	35.77	19.222		
9,450.0	9,315.8	9,000.0	8,799.2	28.0	30.2	17.96	-29.1	-1,239.2	714.0	678.1	35.88	19.897		
9,500.0	9,364.1	9,029.1	8,818.5	28.0	30.2	16.53	-50.8	-1,239.4	741.0	705.0	35.95	20.610		
9,550.0	9,411.1	9,050.0	8,831.7	28.0	30.2	15.48	-67.1	-1,239.5	766.0	729.9	36.08	21.232		
9,595.0	9,452.0	9,065.1	8,840.8	28.1	30.2	14.72	-79.1	-1,239.6	786.6	750.3	36.23	21.713		
9,600.0	9,456.5	9,067.0	8,841.9	28.1	30.2	14.65	-80.6	-1,239.6	788.7	752.5	36.24	21.762		
9,650.0	9,499.8	9,100.0	8,860.7	28.1	30.2	13.83	-107.8	-1,239.9	809.5	773.1	36.38	22.247		
9,690.0	9,532.8	9,100.0	8,860.7	28.1	30.2	13.47	-107.8	-1,239.9	823.8	787.2	36.61	22.504		
9,700.0	9,540.8	9,100.0	8,860.7	28.1	30.2	13.38	-107.8	-1,239.9	827.3	790.6	36.67	22.562		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8530-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)	Offset (usft)	Semi Major Axis (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)			
9,750.0	9,579.2	9,125.1	8,873.9	28.1	30.2	12.88		-129.2	-1,240.0	842.9	806.0	36.89	22.849	
9,785.0	9,604.3	9,150.0	8,886.0	28.1	30.3	12.55		-150.9	-1,240.2	852.5	815.5	37.03	23.024	
9,800.0	9,614.6	9,150.0	8,886.0	28.1	30.3	12.48		-150.9	-1,240.2	856.1	819.0	37.14	23.053	
9,850.0	9,646.8	9,150.0	8,886.0	28.2	30.3	12.24		-150.9	-1,240.2	867.0	829.5	37.52	23.112	
9,880.0	9,664.5	9,176.4	8,897.9	28.2	30.3	12.06		-174.5	-1,240.4	871.9	834.3	37.64	23.166	
9,900.0	9,675.6	9,184.4	8,901.2	28.2	30.3	11.98		-181.7	-1,240.5	874.9	837.1	37.77	23.164	
9,950.0	9,700.7	9,200.0	8,907.5	28.2	30.3	11.84		-196.0	-1,240.6	880.5	842.4	38.13	23.091	
9,975.0	9,711.8	9,200.0	8,907.5	28.2	30.3	11.79		-196.0	-1,240.6	882.6	844.3	38.36	23.007	
10,000.0	9,721.9	9,224.1	8,916.5	28.3	30.3	11.75		-218.4	-1,240.8	883.5	845.1	38.48	22.963	
10,050.0	9,739.1	9,250.0	8,925.0	28.3	30.3	11.74		-242.8	-1,241.0	884.1	845.2	38.83	22.767	
10,070.0	9,744.8	9,250.0	8,925.0	28.3	30.3	11.75		-242.8	-1,241.0	883.5	844.5	39.04	22.632	
10,100.0	9,752.1	9,250.0	8,925.0	28.3	30.3	11.78		-242.8	-1,241.0	882.2	842.8	39.36	22.416	
10,150.0	9,760.9	9,283.8	8,934.5	28.4	30.4	11.92		-275.3	-1,241.2	877.3	837.6	39.71	22.094	
10,165.0	9,762.7	9,300.0	8,938.4	28.4	30.4	11.98		-291.0	-1,241.4	875.5	835.7	39.78	22.011	
10,200.0	9,765.4	9,300.0	8,938.4	28.4	30.4	12.10		-291.0	-1,241.4	870.1	829.9	40.18	21.654	
10,225.9	9,766.0	9,300.0	8,938.4	28.5	30.4	12.19		-291.0	-1,241.4	865.6	825.1	40.47	21.389	
10,260.0	9,766.0	9,327.5	8,943.9	28.5	30.4	12.27		-317.9	-1,241.6	859.0	818.4	40.67	21.120	
10,300.0	9,766.1	9,350.0	8,947.5	28.5	30.4	12.32		-340.1	-1,241.8	852.7	811.7	40.98	20.810	
10,355.0	9,766.1	9,365.8	8,949.4	28.6	30.4	12.35		-355.8	-1,241.9	845.7	804.1	41.52	20.370	
10,400.0	9,766.1	9,384.2	8,951.2	28.7	30.5	12.38		-374.1	-1,242.1	841.5	799.6	41.92	20.075	
10,450.0	9,766.2	9,400.0	8,952.2	28.8	30.5	12.39		-389.9	-1,242.2	838.5	796.1	42.41	19.773	
10,500.0	9,766.2	9,429.3	8,953.0	28.8	30.5	12.40		-419.2	-1,242.4	837.3	794.5	42.77	19.577	
10,519.4	9,766.2	9,438.9	8,953.0	28.9	30.5	12.40		-428.8	-1,242.5	837.3	794.3	42.93	19.504	
10,545.0	9,766.2	9,464.5	8,953.0	28.9	30.5	12.40		-454.3	-1,242.7	837.2	794.2	43.03	19.457	
10,600.0	9,766.3	9,519.5	8,953.1	29.0	30.6	12.40		-509.3	-1,243.2	837.2	794.0	43.26	19.355	
10,640.0	9,766.3	9,559.5	8,953.1	29.1	30.7	12.40		-549.3	-1,243.5	837.2	793.8	43.44	19.273	
10,700.0	9,766.3	9,619.5	8,953.2	29.2	30.8	12.41		-609.3	-1,244.0	837.2	793.5	43.72	19.150	
10,735.0	9,766.4	9,654.5	8,953.2	29.2	30.8	12.41		-644.3	-1,244.3	837.2	793.3	43.90	19.072	
10,800.0	9,766.4	9,719.5	8,953.2	29.4	30.9	12.41		-709.3	-1,244.8	837.2	793.0	44.23	18.928	
10,830.0	9,766.4	9,749.5	8,953.3	29.4	31.0	12.41		-739.3	-1,245.1	837.2	792.8	44.40	18.856	
10,900.0	9,766.5	9,819.5	8,953.3	29.6	31.1	12.41		-809.3	-1,245.7	837.2	792.4	44.80	18.690	
10,925.0	9,766.5	9,844.5	8,953.3	29.6	31.1	12.41		-834.3	-1,245.9	837.2	792.3	44.95	18.627	
11,000.0	9,766.6	9,919.5	8,953.4	29.8	31.3	12.41		-909.3	-1,246.5	837.2	791.8	45.40	18.439	
11,020.0	9,766.6	9,939.5	8,953.4	29.9	31.3	12.41		-929.3	-1,246.7	837.2	791.7	45.53	18.386	
11,100.0	9,766.6	10,019.5	8,953.5	30.0	31.5	12.41		-1,009.3	-1,247.3	837.2	791.1	46.06	18.177	
11,115.0	9,766.6	10,034.5	8,953.5	30.1	31.5	12.41		-1,024.3	-1,247.4	837.2	791.0	46.16	18.136	
11,200.0	9,766.7	10,119.5	8,953.6	30.3	31.7	12.41		-1,109.3	-1,248.1	837.2	790.4	46.76	17.905	
11,210.0	9,766.7	10,129.5	8,953.6	30.3	31.7	12.41		-1,119.3	-1,248.2	837.2	790.4	46.83	17.877	
11,300.0	9,766.8	10,219.5	8,953.6	30.6	32.0	12.41		-1,209.3	-1,249.0	837.2	789.7	47.50	17.626	
11,305.0	9,766.8	10,224.5	8,953.6	30.6	32.0	12.41		-1,214.3	-1,249.0	837.2	789.7	47.54	17.612	
11,400.0	9,766.8	10,319.5	8,953.7	30.9	32.2	12.41		-1,309.3	-1,249.8	837.2	788.9	48.28	17.342	
11,495.0	9,766.9	10,414.5	8,953.8	31.1	32.5	12.41		-1,404.3	-1,250.6	837.2	788.1	49.05	17.067	
11,500.0	9,766.9	10,419.5	8,953.8	31.2	32.5	12.41		-1,409.3	-1,250.6	837.2	788.1	49.09	17.053	
11,590.0	9,767.0	10,509.5	8,953.9	31.4	32.7	12.41		-1,499.3	-1,251.4	837.2	787.3	49.86	16.791	
11,600.0	9,767.0	10,519.5	8,953.9	31.5	32.8	12.41		-1,509.3	-1,251.5	837.2	787.2	49.95	16.762	
11,685.0	9,767.1	10,604.5	8,953.9	31.8	33.0	12.41		-1,594.3	-1,252.2	837.2	786.5	50.70	16.513	
11,700.0	9,767.1	10,619.5	8,954.0	31.8	33.1	12.41		-1,609.3	-1,252.3	837.2	786.3	50.83	16.469	
11,780.0	9,767.1	10,699.5	8,954.0	32.1	33.3	12.41		-1,689.3	-1,252.9	837.2	785.6	51.57	16.235	
11,800.0	9,767.1	10,719.5	8,954.0	32.1	33.4	12.41		-1,709.3	-1,253.1	837.2	785.4	51.75	16.176	
11,875.0	9,767.2	10,794.5	8,954.1	32.4	33.6	12.41		-1,784.3	-1,253.7	837.1	784.7	52.46	15.957	
11,900.0	9,767.2	10,819.5	8,954.1	32.5	33.7	12.41		-1,809.3	-1,253.9	837.1	784.4	52.70	15.885	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8530-r.5 MWD+IFR1+MS							Rule Assigned:				Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre			Distance		Minimum 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)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
11,970.0	9,767.3	10,889.5	8,954.2	32.8	33.9	12.41	-1,879.3	-1,254.5	837.1	783.8	53.38	15.681		
12,000.0	9,767.3	10,919.5	8,954.2	32.9	34.0	12.41	-1,909.3	-1,254.8	837.1	783.5	53.68	15.595		
12,065.0	9,767.3	10,984.5	8,954.3	33.1	34.3	12.41	-1,974.3	-1,255.3	837.1	782.8	54.33	15.408		
12,100.0	9,767.4	11,019.5	8,954.3	33.2	34.4	12.41	-2,009.3	-1,255.6	837.1	782.4	54.69	15.308		
12,160.0	9,767.4	11,079.5	8,954.3	33.5	34.6	12.41	-2,069.3	-1,256.1	837.1	781.8	55.30	15.137		
12,200.0	9,767.4	11,119.5	8,954.4	33.6	34.7	12.41	-2,109.3	-1,256.4	837.1	781.4	55.72	15.024		
12,255.0	9,767.5	11,174.5	8,954.4	33.9	34.9	12.41	-2,164.3	-1,256.9	837.1	780.8	56.30	14.869		
12,300.0	9,767.5	11,219.5	8,954.4	34.0	35.1	12.41	-2,209.3	-1,257.3	837.1	780.3	56.78	14.744		
12,350.0	9,767.5	11,269.5	8,954.5	34.2	35.3	12.41	-2,259.3	-1,257.7	837.1	779.8	57.31	14.605		
12,400.0	9,767.6	11,319.5	8,954.5	34.5	35.5	12.41	-2,309.3	-1,258.1	837.1	779.2	57.86	14.469		
12,445.0	9,767.6	11,364.5	8,954.6	34.6	35.7	12.41	-2,354.3	-1,258.5	837.1	778.8	58.35	14.346		
12,500.0	9,767.6	11,419.5	8,954.6	34.9	35.9	12.41	-2,409.3	-1,258.9	837.1	778.1	58.96	14.198		
12,540.0	9,767.7	11,459.5	8,954.6	35.1	36.1	12.41	-2,449.3	-1,259.2	837.1	777.7	59.41	14.091		
12,600.0	9,767.7	11,519.5	8,954.7	35.3	36.3	12.41	-2,509.3	-1,259.7	837.1	777.0	60.08	13.933		
12,635.0	9,767.7	11,554.5	8,954.7	35.5	36.4	12.41	-2,544.3	-1,260.0	837.1	776.6	60.48	13.841		
12,700.0	9,767.8	11,619.5	8,954.8	35.8	36.7	12.41	-2,609.3	-1,260.6	837.1	775.9	61.22	13.673		
12,730.0	9,767.8	11,649.5	8,954.8	35.9	36.8	12.41	-2,639.3	-1,260.8	837.1	775.5	61.57	13.595		
12,800.0	9,767.9	11,719.5	8,954.8	36.2	37.1	12.41	-2,709.3	-1,261.4	837.1	774.7	62.38	13.418		
12,825.0	9,767.9	11,744.5	8,954.9	36.3	37.3	12.41	-2,734.3	-1,261.6	837.1	774.4	62.68	13.355		
12,900.0	9,767.9	11,819.5	8,954.9	36.7	37.6	12.41	-2,809.2	-1,262.2	837.1	773.5	63.56	13.169		
12,920.0	9,767.9	11,839.5	8,954.9	36.8	37.7	12.41	-2,829.2	-1,262.4	837.1	773.3	63.80	13.120		
13,000.0	9,768.0	11,919.5	8,955.0	37.2	38.0	12.41	-2,909.2	-1,263.0	837.1	772.3	64.76	12.926		
13,015.0	9,768.0	11,934.5	8,955.0	37.2	38.1	12.41	-2,924.2	-1,263.2	837.1	772.1	64.94	12.890		
13,100.0	9,768.1	12,019.5	8,955.1	37.7	38.5	12.41	-3,009.2	-1,263.9	837.1	771.1	65.97	12.689		
13,110.0	9,768.1	12,029.5	8,955.1	37.7	38.5	12.41	-3,019.2	-1,264.0	837.0	771.0	66.09	12.665		
13,200.0	9,768.2	12,119.5	8,955.2	38.2	39.0	12.41	-3,109.2	-1,264.7	837.0	769.9	67.19	12.457		
13,205.0	9,768.2	12,124.5	8,955.2	38.2	39.0	12.41	-3,114.2	-1,264.7	837.0	769.8	67.25	12.446		
13,300.0	9,768.2	12,219.5	8,955.2	38.7	39.4	12.41	-3,209.2	-1,265.5	837.0	768.6	68.43	12.232		
13,395.0	9,768.3	12,314.5	8,955.3	39.2	39.9	12.41	-3,304.2	-1,266.3	837.0	767.4	69.62	12.023		
13,400.0	9,768.3	12,319.5	8,955.3	39.2	39.9	12.41	-3,309.2	-1,266.4	837.0	767.3	69.68	12.012		
13,490.0	9,768.4	12,409.5	8,955.4	39.7	40.4	12.41	-3,399.2	-1,267.1	837.0	766.2	70.82	11.819		
13,500.0	9,768.4	12,419.5	8,955.4	39.7	40.4	12.41	-3,409.2	-1,267.2	837.0	766.1	70.95	11.797		
13,585.0	9,768.4	12,504.5	8,955.5	40.2	40.8	12.41	-3,494.2	-1,267.9	837.0	765.0	72.03	11.620		
13,600.0	9,768.4	12,519.5	8,955.5	40.2	40.9	12.41	-3,509.2	-1,268.0	837.0	764.8	72.23	11.589		
13,680.0	9,768.5	12,599.5	8,955.6	40.7	41.3	12.41	-3,589.2	-1,268.7	837.0	763.7	73.26	11.426		
13,700.0	9,768.5	12,619.5	8,955.6	40.8	41.4	12.41	-3,609.2	-1,268.8	837.0	763.5	73.51	11.386		
13,775.0	9,768.6	12,694.5	8,955.6	41.2	41.8	12.41	-3,684.2	-1,269.5	837.0	762.5	74.49	11.237		
13,800.0	9,768.6	12,719.5	8,955.6	41.3	41.9	12.41	-3,709.2	-1,269.7	837.0	762.2	74.81	11.188		
13,870.0	9,768.6	12,789.5	8,955.7	41.7	42.3	12.41	-3,779.2	-1,270.2	837.0	761.3	75.73	11.053		
13,900.0	9,768.7	12,819.5	8,955.7	41.9	42.5	12.41	-3,809.2	-1,270.5	837.0	760.9	76.12	10.995		
13,965.0	9,768.7	12,884.5	8,955.8	42.2	42.8	12.41	-3,874.2	-1,271.0	837.0	760.0	76.98	10.873		
14,000.0	9,768.7	12,919.5	8,955.8	42.4	43.0	12.41	-3,909.2	-1,271.3	837.0	759.5	77.44	10.808		
14,060.0	9,768.8	12,979.5	8,955.9	42.8	43.3	12.41	-3,969.2	-1,271.8	837.0	758.7	78.24	10.698		
14,100.0	9,768.8	13,019.5	8,955.9	43.0	43.5	12.41	-4,009.2	-1,272.1	837.0	758.2	78.77	10.626		
14,155.0	9,768.8	13,074.5	8,955.9	43.3	43.8	12.41	-4,064.2	-1,272.6	837.0	757.5	79.50	10.528		
14,200.0	9,768.9	13,119.5	8,956.0	43.6	44.1	12.41	-4,109.2	-1,273.0	837.0	756.9	80.10	10.449		
14,250.0	9,768.9	13,169.5	8,956.0	43.9	44.4	12.41	-4,159.2	-1,273.4	837.0	756.2	80.78	10.362		
14,300.0	9,768.9	13,219.5	8,956.0	44.2	44.6	12.41	-4,209.2	-1,273.8	837.0	755.5	81.45	10.276		
14,345.0	9,769.0	13,264.5	8,956.1	44.4	44.9	12.41	-4,254.2	-1,274.2	837.0	754.9	82.06	10.200		
14,400.0	9,769.0	13,319.5	8,956.1	44.7	45.2	12.41	-4,309.2	-1,274.6	836.9	754.1	82.80	10.108		
14,440.0	9,769.0	13,359.5	8,956.2	45.0	45.4	12.41	-4,349.2	-1,275.0	836.9	753.6	83.34	10.042		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8530-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum	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)	Separation (usft)	Factor
14,500.0	9,769.1	13,419.5	8,956.2	45.3	45.8	12.41	-4,409.2	-1,275.5	836.9	752.8	84.16	9.945
14,535.0	9,769.1	13,454.5	8,956.2	45.5	46.0	12.41	-4,444.2	-1,275.7	836.9	752.3	84.64	9.888
14,600.0	9,769.2	13,519.5	8,956.3	45.9	46.3	12.41	-4,509.2	-1,276.3	836.9	751.4	85.53	9.786
14,630.0	9,769.2	13,549.5	8,956.3	46.1	46.5	12.41	-4,539.2	-1,276.5	836.9	751.0	85.94	9.739
14,700.0	9,769.2	13,619.5	8,956.4	46.5	46.9	12.41	-4,609.2	-1,277.1	836.9	750.0	86.90	9.631
14,725.0	9,769.3	13,644.5	8,956.4	46.7	47.1	12.41	-4,634.2	-1,277.3	836.9	749.7	87.24	9.593
14,800.0	9,769.3	13,719.5	8,956.5	47.1	47.5	12.41	-4,709.2	-1,277.9	836.9	748.6	88.28	9.480
14,820.0	9,769.3	13,739.5	8,956.5	47.2	47.6	12.41	-4,729.2	-1,278.1	836.9	748.4	88.56	9.451
14,900.0	9,769.4	13,819.5	8,956.5	47.7	48.1	12.41	-4,809.2	-1,278.8	836.9	747.2	89.67	9.334
14,915.0	9,769.4	13,834.5	8,956.5	47.8	48.2	12.41	-4,824.2	-1,278.9	836.9	747.0	89.88	9.312
15,000.0	9,769.5	13,919.5	8,956.6	48.4	48.7	12.41	-4,909.2	-1,279.6	836.9	745.8	91.06	9.191
15,010.0	9,769.5	13,929.5	8,956.6	48.4	48.7	12.41	-4,919.2	-1,279.7	836.9	745.7	91.20	9.177
15,100.0	9,769.5	14,019.5	8,956.7	49.0	49.3	12.41	-5,009.2	-1,280.4	836.9	744.4	92.46	9.052
15,105.0	9,769.5	14,024.5	8,956.7	49.0	49.3	12.41	-5,014.2	-1,280.5	836.9	744.4	92.53	9.045
15,200.0	9,769.6	14,119.5	8,956.8	49.6	49.9	12.41	-5,109.2	-1,281.3	836.9	743.0	93.86	8.916
15,295.0	9,769.7	14,214.5	8,956.8	50.2	50.4	12.41	-5,204.2	-1,282.0	836.9	741.7	95.20	8.791
15,300.0	9,769.7	14,219.5	8,956.9	50.2	50.5	12.41	-5,209.2	-1,282.1	836.9	741.6	95.27	8.785
15,390.0	9,769.7	14,309.5	8,956.9	50.8	51.0	12.41	-5,299.2	-1,282.8	836.9	740.3	96.54	8.669
15,400.0	9,769.7	14,319.5	8,956.9	50.9	51.1	12.41	-5,309.2	-1,282.9	836.9	740.2	96.68	8.656
15,485.0	9,769.8	14,404.5	8,957.0	51.4	51.6	12.41	-5,394.2	-1,283.6	836.9	739.0	97.89	8.549
15,500.0	9,769.8	14,419.5	8,957.0	51.5	51.7	12.41	-5,409.2	-1,283.7	836.9	738.8	98.10	8.531
15,580.0	9,769.9	14,499.5	8,957.1	52.0	52.2	12.41	-5,489.2	-1,284.4	836.9	737.6	99.24	8.433
15,600.0	9,769.9	14,519.5	8,957.1	52.1	52.3	12.41	-5,509.2	-1,284.6	836.9	737.3	99.52	8.409
15,675.0	9,769.9	14,594.5	8,957.2	52.6	52.8	12.41	-5,584.2	-1,285.2	836.8	736.3	100.59	8.319
15,700.0	9,770.0	14,619.5	8,957.2	52.8	52.9	12.41	-5,609.2	-1,285.4	836.8	735.9	100.95	8.290
15,770.0	9,770.0	14,689.5	8,957.2	53.2	53.4	12.41	-5,679.1	-1,286.0	836.8	734.9	101.95	8.209
15,800.0	9,770.0	14,719.5	8,957.3	53.4	53.5	12.41	-5,709.1	-1,286.2	836.8	734.5	102.38	8.174
15,865.0	9,770.1	14,784.5	8,957.3	53.8	54.0	12.41	-5,774.1	-1,286.8	836.8	733.5	103.31	8.100
15,900.0	9,770.1	14,819.5	8,957.3	54.1	54.2	12.41	-5,809.1	-1,287.0	836.8	733.0	103.81	8.061
15,960.0	9,770.1	14,879.5	8,957.4	54.5	54.5	12.41	-5,869.1	-1,287.5	836.8	732.2	104.67	7.995
16,000.0	9,770.2	14,919.5	8,957.4	54.7	54.8	12.41	-5,909.1	-1,287.9	836.8	731.6	105.25	7.951
16,055.0	9,770.2	14,974.5	8,957.5	55.1	55.2	12.41	-5,964.1	-1,288.3	836.8	730.8	106.04	7.891
16,100.0	9,770.2	15,019.5	8,957.5	55.4	55.4	12.41	-6,009.1	-1,288.7	836.8	730.1	106.69	7.843
16,150.0	9,770.3	15,069.5	8,957.5	55.7	55.8	12.41	-6,059.1	-1,289.1	836.8	729.4	107.41	7.790
16,200.0	9,770.3	15,119.5	8,957.6	56.0	56.1	12.41	-6,109.1	-1,289.5	836.8	728.7	108.14	7.738
16,245.0	9,770.4	15,164.5	8,957.6	56.3	56.4	12.41	-6,154.1	-1,289.9	836.8	728.0	108.79	7.692
16,300.0	9,770.4	15,219.5	8,957.7	56.7	56.7	12.41	-6,209.1	-1,290.4	836.8	727.2	109.59	7.636
16,340.0	9,770.4	15,259.5	8,957.7	57.0	57.0	12.41	-6,249.1	-1,290.7	836.8	726.6	110.17	7.596
16,400.0	9,770.5	15,319.5	8,957.7	57.4	57.4	12.41	-6,309.1	-1,291.2	836.8	725.8	111.04	7.536
16,435.0	9,770.5	15,354.5	8,957.8	57.6	57.6	12.41	-6,344.1	-1,291.5	836.8	725.2	111.55	7.502
16,500.0	9,770.5	15,419.5	8,957.8	58.0	58.0	12.41	-6,409.1	-1,292.0	836.8	724.3	112.49	7.439
16,530.0	9,770.6	15,449.5	8,957.8	58.2	58.2	12.41	-6,439.1	-1,292.3	836.8	723.9	112.93	7.410
16,600.0	9,770.6	15,519.5	8,957.9	58.7	58.7	12.41	-6,509.1	-1,292.8	836.8	722.8	113.95	7.343
16,625.0	9,770.6	15,544.5	8,957.9	58.9	58.8	12.41	-6,534.1	-1,293.0	836.8	722.5	114.32	7.320
16,700.0	9,770.7	15,619.5	8,958.0	59.4	59.3	12.41	-6,609.1	-1,293.7	836.8	721.4	115.41	7.250
16,720.0	9,770.7	15,639.5	8,958.0	59.5	59.4	12.41	-6,629.1	-1,293.8	836.8	721.1	115.70	7.232
16,800.0	9,770.8	15,719.5	8,958.1	60.0	60.0	12.41	-6,709.1	-1,294.5	836.8	719.9	116.88	7.159
16,815.0	9,770.8	15,734.5	8,958.1	60.1	60.1	12.41	-6,724.1	-1,294.6	836.8	719.7	117.10	7.146
16,900.0	9,770.8	15,819.5	8,958.1	60.7	60.6	12.42	-6,809.1	-1,295.3	836.8	718.4	118.34	7.071
16,910.0	9,770.8	15,829.5	8,958.1	60.8	60.7	12.42	-6,819.1	-1,295.4	836.8	718.3	118.49	7.062
17,000.0	9,770.9	15,919.5	8,958.2	61.4	61.3	12.42	-6,909.1	-1,296.2	836.7	716.9	119.81	6.984

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8530-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)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)
								+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation Factor
17,005.0	9,770.9	15,924.5	8,958.2	61.4	61.3	12.42	12.42	-6,914.1	-1,296.2	836.7	716.9	119.88
17,100.0	9,771.0	16,019.5	8,958.3	62.1	61.9	12.42	12.42	-7,009.1	-1,297.0	836.7	715.5	121.28
17,195.0	9,771.0	16,114.5	8,958.4	62.7	62.6	12.42	12.42	-7,104.1	-1,297.8	836.7	714.0	122.68
17,200.0	9,771.0	16,119.5	8,958.4	62.7	62.6	12.42	12.42	-7,109.1	-1,297.8	836.7	714.0	122.76
17,290.0	9,771.1	16,209.5	8,958.5	63.4	63.2	12.42	12.42	-7,199.1	-1,298.6	836.7	712.6	124.08
17,300.0	9,771.1	16,219.5	8,958.5	63.4	63.3	12.42	12.42	-7,209.1	-1,298.6	836.7	712.5	124.23
17,385.0	9,771.2	16,304.5	8,958.5	64.0	63.8	12.42	12.42	-7,294.1	-1,299.3	836.7	711.2	125.49
17,400.0	9,771.2	16,319.5	8,958.5	64.1	63.9	12.42	12.42	-7,309.1	-1,299.5	836.7	711.0	125.71
17,480.0	9,771.2	16,399.5	8,958.6	64.7	64.5	12.42	12.42	-7,389.1	-1,300.1	836.7	709.8	126.89
17,500.0	9,771.3	16,419.5	8,958.6	64.8	64.6	12.42	12.42	-7,409.1	-1,300.3	836.7	709.5	127.19
17,575.0	9,771.3	16,494.5	8,958.7	65.3	65.1	12.42	12.42	-7,484.1	-1,300.9	836.7	708.4	128.30
17,600.0	9,771.3	16,519.5	8,958.7	65.5	65.3	12.42	12.42	-7,509.1	-1,301.1	836.7	708.0	128.67
17,670.0	9,771.4	16,589.5	8,958.8	66.0	65.8	12.42	12.42	-7,579.1	-1,301.7	836.7	707.0	129.71
17,700.0	9,771.4	16,619.5	8,958.8	66.2	66.0	12.42	12.42	-7,609.1	-1,301.9	836.7	706.5	130.16
17,765.0	9,771.5	16,684.5	8,958.8	66.6	66.4	12.42	12.42	-7,674.1	-1,302.5	836.7	705.6	131.12
17,800.0	9,771.5	16,719.5	8,958.9	66.9	66.6	12.42	12.42	-7,709.1	-1,302.8	836.7	705.0	131.64
17,860.0	9,771.5	16,779.5	8,958.9	67.3	67.1	12.42	12.42	-7,769.1	-1,303.3	836.7	704.1	132.54
17,900.0	9,771.6	16,819.5	8,958.9	67.6	67.3	12.42	12.42	-7,809.1	-1,303.6	836.7	703.5	133.13
17,955.0	9,771.6	16,874.5	8,959.0	68.0	67.7	12.42	12.42	-7,864.1	-1,304.1	836.7	702.7	133.95
18,000.0	9,771.6	16,919.5	8,959.0	68.3	68.0	12.42	12.42	-7,909.1	-1,304.4	836.7	702.0	134.62
18,050.0	9,771.7	16,969.5	8,959.1	68.6	68.4	12.42	12.42	-7,959.1	-1,304.8	836.7	701.3	135.37
18,100.0	9,771.7	17,019.5	8,959.1	69.0	68.7	12.42	12.42	-8,009.1	-1,305.3	836.7	700.5	136.11
18,145.0	9,771.7	17,064.5	8,959.1	69.3	69.0	12.42	12.42	-8,054.1	-1,305.6	836.7	699.9	136.78
18,200.0	9,771.8	17,119.5	8,959.2	69.7	69.4	12.42	12.42	-8,109.1	-1,306.1	836.7	699.0	137.61
18,240.0	9,771.8	17,159.5	8,959.2	69.9	69.7	12.42	12.42	-8,149.1	-1,306.4	836.7	698.4	138.20
18,300.0	9,771.8	17,219.5	8,959.3	70.4	70.1	12.42	12.42	-8,209.1	-1,306.9	836.6	697.5	139.10
18,335.0	9,771.9	17,254.5	8,959.3	70.6	70.3	12.42	12.42	-8,244.1	-1,307.2	836.6	697.0	139.62
18,400.0	9,771.9	17,319.5	8,959.3	71.1	70.8	12.42	12.42	-8,309.1	-1,307.7	836.6	696.0	140.60
18,430.0	9,771.9	17,349.5	8,959.4	71.3	71.0	12.42	12.42	-8,339.1	-1,308.0	836.6	695.6	141.05
18,500.0	9,772.0	17,419.5	8,959.4	71.8	71.4	12.42	12.42	-8,409.1	-1,308.6	836.6	694.5	142.10
18,525.0	9,772.0	17,444.5	8,959.4	71.9	71.6	12.42	12.42	-8,434.1	-1,308.8	836.6	694.2	142.47
18,600.0	9,772.1	17,519.5	8,959.5	72.5	72.1	12.42	12.42	-8,509.1	-1,309.4	836.6	693.0	143.60
18,620.0	9,772.1	17,539.5	8,959.5	72.6	72.3	12.42	12.42	-8,529.1	-1,309.6	836.6	692.7	143.90
18,700.0	9,772.1	17,619.5	8,959.6	73.2	72.8	12.42	12.42	-8,609.0	-1,310.2	836.6	691.5	145.10
18,715.0	9,772.1	17,634.5	8,959.6	73.3	72.9	12.42	12.42	-8,624.0	-1,310.3	836.6	691.3	145.32
18,800.0	9,772.2	17,719.5	8,959.7	73.9	73.5	12.42	12.42	-8,709.0	-1,311.0	836.6	690.0	146.60
18,810.0	9,772.2	17,729.5	8,959.7	74.0	73.6	12.42	12.42	-8,719.0	-1,311.1	836.6	689.9	146.75
18,900.0	9,772.3	17,819.5	8,959.7	74.6	74.2	12.42	12.42	-8,809.0	-1,311.9	836.6	688.5	148.10
18,905.0	9,772.3	17,824.5	8,959.8	74.6	74.3	12.42	12.42	-8,814.0	-1,311.9	836.6	688.4	148.18
19,000.0	9,772.3	17,919.5	8,959.8	75.3	74.9	12.42	12.42	-8,909.0	-1,312.7	836.6	687.0	149.61
19,095.0	9,772.4	18,014.5	8,959.9	76.0	75.6	12.42	12.42	-9,004.0	-1,313.5	836.6	685.5	151.04
19,100.0	9,772.4	18,019.5	8,959.9	76.0	75.6	12.42	12.42	-9,009.0	-1,313.5	836.6	685.5	151.11
19,190.0	9,772.5	18,109.5	8,960.0	76.7	76.2	12.42	12.42	-9,099.0	-1,314.3	836.6	684.1	152.47
19,200.0	9,772.5	18,119.5	8,960.0	76.7	76.3	12.42	12.42	-9,109.0	-1,314.4	836.6	684.0	152.62
19,285.0	9,772.6	18,204.5	8,960.1	77.3	76.9	12.42	12.42	-9,194.0	-1,315.1	836.6	682.7	153.90
19,300.0	9,772.6	18,219.5	8,960.1	77.4	77.0	12.42	12.42	-9,209.0	-1,315.2	836.6	682.4	154.13
19,380.0	9,772.6	18,299.5	8,960.1	78.0	77.6	12.42	12.42	-9,289.0	-1,315.8	836.6	681.2	155.34
19,400.0	9,772.6	18,319.5	8,960.2	78.2	77.7	12.42	12.42	-9,309.0	-1,316.0	836.6	680.9	155.64
19,475.0	9,772.7	18,394.5	8,960.2	78.7	78.2	12.42	12.42	-9,384.0	-1,316.6	836.6	679.8	156.77
19,500.0	9,772.7	18,419.5	8,960.2	78.9	78.4	12.42	12.42	-9,409.0	-1,316.8	836.6	679.4	157.15
19,570.0	9,772.8	18,489.5	8,960.3	79.4	78.9	12.42	12.42	-9,479.0	-1,317.4	836.5	678.3	158.21

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

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Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8530-r.5 MWD+IFR1+MS						Rule Assigned:				Offset Well Error:	3.0 usft	
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance				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)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
19,600.0	9,772.8	18,519.5	8,960.3	79.6	79.1	12.42	-9,509.0	-1,317.7	836.5	677.9	158.66	5.273		
19,665.0	9,772.8	18,584.5	8,960.4	80.0	79.6	12.42	-9,574.0	-1,318.2	836.5	676.9	159.65	5.240		
19,700.0	9,772.9	18,619.5	8,960.4	80.3	79.8	12.42	-9,609.0	-1,318.5	836.5	676.4	160.17	5.223		
19,760.0	9,772.9	18,679.5	8,960.4	80.7	80.3	12.42	-9,669.0	-1,319.0	836.5	675.4	161.08	5.193		
19,800.0	9,772.9	18,719.5	8,960.5	81.0	80.5	12.42	-9,709.0	-1,319.3	836.5	674.8	161.69	5.174		
19,855.0	9,773.0	18,774.5	8,960.5	81.4	80.9	12.42	-9,764.0	-1,319.8	836.5	674.0	162.52	5.147		
19,900.0	9,773.0	18,819.5	8,960.6	81.7	81.2	12.42	-9,809.0	-1,320.2	836.5	673.3	163.20	5.126		
19,950.0	9,773.0	18,869.5	8,960.6	82.1	81.6	12.42	-9,859.0	-1,320.6	836.5	672.6	163.96	5.102		
20,000.0	9,773.1	18,919.5	8,960.6	82.5	82.0	12.42	-9,909.0	-1,321.0	836.5	671.8	164.72	5.078		
20,045.0	9,773.1	18,964.5	8,960.7	82.8	82.3	12.42	-9,954.0	-1,321.4	836.5	671.1	165.40	5.057		
20,100.0	9,773.1	19,019.5	8,960.7	83.2	82.7	12.42	-10,009.0	-1,321.8	836.5	670.3	166.24	5.032		
20,140.0	9,773.2	19,059.5	8,960.7	83.5	82.9	12.42	-10,049.0	-1,322.1	836.5	669.7	166.84	5.014		
20,200.0	9,773.2	19,119.5	8,960.8	83.9	83.4	12.42	-10,109.0	-1,322.6	836.5	668.7	167.75	4.986		
20,235.0	9,773.2	19,154.5	8,960.8	84.1	83.6	12.42	-10,144.0	-1,322.9	836.5	668.2	168.29	4.971		
20,300.0	9,773.3	19,219.5	8,960.9	84.6	84.1	12.42	-10,209.0	-1,323.5	836.5	667.2	169.27	4.942		
20,330.0	9,773.3	19,249.5	8,960.9	84.8	84.3	12.42	-10,239.0	-1,323.7	836.5	666.8	169.73	4.928		
20,400.0	9,773.4	19,319.5	8,961.0	85.3	84.8	12.42	-10,309.0	-1,324.3	836.5	665.7	170.79	4.898		
20,425.0	9,773.4	19,344.5	8,961.0	85.5	85.0	12.42	-10,334.0	-1,324.5	836.5	665.3	171.17	4.887		
20,500.0	9,773.4	19,419.5	8,961.0	86.1	85.5	12.42	-10,409.0	-1,325.1	836.5	664.2	172.31	4.854		
20,520.0	9,773.4	19,439.5	8,961.1	86.2	85.7	12.42	-10,429.0	-1,325.3	836.5	663.9	172.62	4.846		
20,600.0	9,773.5	19,519.5	8,961.1	86.8	86.2	12.42	-10,509.0	-1,325.9	836.5	662.6	173.84	4.812		
20,615.0	9,773.5	19,534.5	8,961.1	86.9	86.3	12.42	-10,524.0	-1,326.1	836.5	662.4	174.06	4.806		
20,700.0	9,773.6	19,619.5	8,961.2	87.5	86.9	12.42	-10,609.0	-1,326.8	836.5	661.1	175.36	4.770		
20,710.0	9,773.6	19,629.5	8,961.2	87.6	87.0	12.42	-10,619.0	-1,326.9	836.5	660.9	175.51	4.766		
20,800.0	9,773.6	19,719.5	8,961.3	88.2	87.7	12.42	-10,709.0	-1,327.6	836.5	659.6	176.88	4.729		
20,805.0	9,773.7	19,724.5	8,961.3	88.3	87.7	12.42	-10,714.0	-1,327.6	836.5	659.5	176.96	4.727		
20,900.0	9,773.7	19,819.5	8,961.4	89.0	88.4	12.42	-10,809.0	-1,328.4	836.4	658.0	178.40	4.688		
20,995.0	9,773.8	19,914.5	8,961.4	89.6	89.1	12.42	-10,904.0	-1,329.2	836.4	656.6	179.85	4.651		
21,000.0	9,773.8	19,919.5	8,961.4	89.7	89.1	12.42	-10,909.0	-1,329.3	836.4	656.5	179.93	4.649		
21,090.0	9,773.9	20,009.5	8,961.5	90.3	89.7	12.42	-10,999.0	-1,330.0	836.4	655.1	181.30	4.613		
21,100.0	9,773.9	20,019.5	8,961.5	90.4	89.8	12.42	-11,009.0	-1,330.1	836.4	655.0	181.45	4.610		
21,185.0	9,773.9	20,104.5	8,961.6	91.0	90.4	12.42	-11,094.0	-1,330.8	836.4	653.7	182.75	4.577		
21,200.0	9,773.9	20,119.5	8,961.6	91.1	90.5	12.42	-11,109.0	-1,330.9	836.4	653.4	182.98	4.571		
21,280.0	9,774.0	20,199.5	8,961.7	91.7	91.1	12.42	-11,189.0	-1,331.6	836.4	652.2	184.20	4.541		
21,300.0	9,774.0	20,219.5	8,961.7	91.9	91.2	12.42	-11,209.0	-1,331.7	836.4	651.9	184.51	4.533		
21,375.0	9,774.1	20,294.5	8,961.7	92.4	91.8	12.42	-11,284.0	-1,332.4	836.4	650.8	185.65	4.505		
21,400.0	9,774.1	20,319.5	8,961.8	92.6	92.0	12.42	-11,309.0	-1,332.6	836.4	650.4	186.03	4.496		
21,470.0	9,774.1	20,389.5	8,961.8	93.1	92.5	12.42	-11,379.0	-1,333.1	836.4	649.3	187.10	4.470		
21,500.0	9,774.2	20,419.5	8,961.8	93.3	92.7	12.42	-11,409.0	-1,333.4	836.4	648.8	187.56	4.459		
21,565.0	9,774.2	20,484.5	8,961.9	93.8	93.2	12.42	-11,473.9	-1,333.9	836.4	647.8	188.55	4.436		
21,600.0	9,774.2	20,519.5	8,961.9	94.1	93.4	12.42	-11,508.9	-1,334.2	836.4	647.3	189.09	4.423		
21,660.0	9,774.3	20,579.5	8,962.0	94.5	93.8	12.42	-11,568.9	-1,334.7	836.4	646.4	190.01	4.402		
21,700.0	9,774.3	20,619.5	8,962.0	94.8	94.1	12.42	-11,608.9	-1,335.0	836.4	645.8	190.62	4.388		
21,755.0	9,774.3	20,674.5	8,962.0	95.2	94.5	12.42	-11,663.9	-1,335.5	836.4	644.9	191.46	4.368		
21,800.0	9,774.4	20,719.5	8,962.1	95.5	94.9	12.42	-11,708.9	-1,335.9	836.4	644.2	192.15	4.353		
21,850.0	9,774.4	20,769.5	8,962.1	95.9	95.2	12.42	-11,758.9	-1,336.3	836.4	643.5	192.91	4.335		
21,900.0	9,774.4	20,819.5	8,962.2	96.2	95.6	12.42	-11,808.9	-1,336.7	836.4	642.7	193.68	4.318		
21,945.0	9,774.5	20,864.5	8,962.2	96.6	95.9	12.42	-11,853.9	-1,337.1	836.4	642.0	194.37	4.303		
22,000.0	9,774.5	20,919.5	8,962.2	97.0	96.3	12.42	-11,908.9	-1,337.5	836.4	641.1	195.21	4.284		
22,040.0	9,774.5	20,959.5	8,962.3	97.3	96.6	12.42	-11,948.9	-1,337.9	836.4	640.5	195.82	4.271		
22,100.0	9,774.6	21,019.5	8,962.3	97.7	97.0	12.42	-12,008.9	-1,338.4	836.3	639.6	196.74	4.251		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1													Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8530-r.5 MWD+IFR1+MS				Rule Assigned:									Offset Well Error: 3.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance				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)	Separation Factor		
22,135.0	9,774.6	21,054.5	8,962.4	98.0	97.3	12.42	-12,043.9	-1,338.6	836.3	639.1	197.28	4.239		
22,200.0	9,774.7	21,119.5	8,962.4	98.4	97.8	12.42	-12,108.9	-1,339.2	836.3	638.1	198.27	4.218		
22,230.0	9,774.7	21,149.5	8,962.4	98.7	98.0	12.42	-12,138.9	-1,339.4	836.3	637.6	198.73	4.208		
22,300.0	9,774.7	21,219.5	8,962.5	99.2	98.5	12.42	-12,208.9	-1,340.0	836.3	636.5	199.81	4.186		
22,325.0	9,774.8	21,244.5	8,962.5	99.4	98.7	12.42	-12,233.9	-1,340.2	836.3	636.1	200.19	4.178		
22,400.0	9,774.8	21,319.5	8,962.6	99.9	99.2	12.42	-12,308.9	-1,340.8	836.3	635.0	201.34	4.154		
22,420.0	9,774.8	21,339.5	8,962.6	100.1	99.4	12.42	-12,328.9	-1,341.0	836.3	634.7	201.65	4.147		
22,500.0	9,774.9	21,419.5	8,962.6	100.6	99.9	12.42	-12,408.9	-1,341.7	836.3	633.4	202.87	4.122		
22,515.0	9,774.9	21,434.5	8,962.7	100.8	100.0	12.42	-12,423.9	-1,341.8	836.3	633.2	203.10	4.118		
22,600.0	9,775.0	21,519.5	8,962.7	101.4	100.7	12.42	-12,508.9	-1,342.5	836.3	631.9	204.41	4.091		
22,610.0	9,775.0	21,529.5	8,962.7	101.5	100.7	12.42	-12,518.9	-1,342.6	836.3	631.7	204.56	4.088		
22,700.0	9,775.0	21,619.5	8,962.8	102.1	101.4	12.42	-12,608.9	-1,343.3	836.3	630.4	205.94	4.061		
22,705.0	9,775.0	21,624.5	8,962.8	102.2	101.4	12.42	-12,613.9	-1,343.4	836.3	630.3	206.02	4.059		
22,800.0	9,775.1	21,719.5	8,962.9	102.9	102.1	12.42	-12,708.9	-1,344.2	836.3	628.8	207.48	4.031		
22,895.0	9,775.2	21,814.5	8,963.0	103.6	102.8	12.42	-12,803.9	-1,344.9	836.3	627.4	208.94	4.003		
22,900.0	9,775.2	21,819.5	8,963.0	103.6	102.9	12.42	-12,808.9	-1,345.0	836.3	627.3	209.01	4.001		
22,990.0	9,775.2	21,909.5	8,963.0	104.3	103.5	12.42	-12,898.9	-1,345.7	836.3	625.9	210.39	3.975		
23,000.0	9,775.2	21,919.5	8,963.0	104.3	103.6	12.42	-12,908.9	-1,345.8	836.3	625.7	210.55	3.972		
23,085.0	9,775.3	22,004.5	8,963.1	105.0	104.2	12.42	-12,993.9	-1,346.5	836.3	624.4	211.85	3.947		
23,100.0	9,775.3	22,019.5	8,963.1	105.1	104.3	12.42	-13,008.9	-1,346.6	836.3	624.2	212.08	3.943		
23,180.0	9,775.4	22,099.5	8,963.2	105.7	104.9	12.43	-13,088.9	-1,347.3	836.3	623.0	213.31	3.920		
23,200.0	9,775.4	22,119.5	8,963.2	105.8	105.0	12.43	-13,108.9	-1,347.5	836.3	622.6	213.62	3.915		
23,275.0	9,775.4	22,194.5	8,963.3	106.4	105.6	12.43	-13,183.9	-1,348.1	836.3	621.5	214.77	3.894		
23,300.0	9,775.5	22,219.5	8,963.3	106.5	105.8	12.43	-13,208.9	-1,348.3	836.3	621.1	215.16	3.887		
23,370.0	9,775.5	22,289.5	8,963.3	107.1	106.3	12.43	-13,278.9	-1,348.9	836.3	620.0	216.24	3.867		
23,400.0	9,775.5	22,319.5	8,963.4	107.3	106.5	12.43	-13,308.9	-1,349.1	836.2	619.6	216.70	3.859		
23,465.0	9,775.6	22,384.5	8,963.4	107.8	107.0	12.43	-13,373.9	-1,349.7	836.2	618.5	217.70	3.841		
23,500.0	9,775.6	22,419.5	8,963.5	108.0	107.2	12.43	-13,408.9	-1,349.9	836.2	618.0	218.24	3.832		
23,560.0	9,775.6	22,479.5	8,963.5	108.5	107.7	12.43	-13,468.9	-1,350.4	836.2	617.1	219.16	3.816		
23,600.0	9,775.7	22,519.5	8,963.5	108.8	108.0	12.43	-13,508.9	-1,350.8	836.2	616.5	219.77	3.805		
23,655.0	9,775.7	22,574.5	8,963.6	109.2	108.4	12.43	-13,563.9	-1,351.2	836.2	615.6	220.62	3.790		
23,700.0	9,775.7	22,619.5	8,963.6	109.5	108.7	12.43	-13,608.9	-1,351.6	836.2	614.9	221.31	3.778		
23,750.0	9,775.8	22,669.5	8,963.7	109.9	109.1	12.43	-13,658.9	-1,352.0	836.2	614.1	222.08	3.765		
23,800.0	9,775.8	22,719.5	8,963.7	110.2	109.4	12.43	-13,708.9	-1,352.4	836.2	613.4	222.85	3.752		
23,845.0	9,775.9	22,764.5	8,963.7	110.6	109.8	12.43	-13,753.9	-1,352.8	836.2	612.7	223.55	3.741		
23,900.0	9,775.9	22,819.5	8,963.8	111.0	110.2	12.43	-13,808.9	-1,353.3	836.2	611.8	224.39	3.727		
23,940.0	9,775.9	22,859.5	8,963.8	111.3	110.5	12.43	-13,848.9	-1,353.6	836.2	611.2	225.01	3.716		
24,000.0	9,776.0	22,919.5	8,963.9	111.7	110.9	12.43	-13,908.9	-1,354.1	836.2	610.3	225.93	3.701		
24,035.0	9,776.0	22,954.5	8,963.9	112.0	111.2	12.43	-13,943.9	-1,354.4	836.2	609.7	226.47	3.692		
24,100.0	9,776.0	23,019.5	8,963.9	112.5	111.6	12.43	-14,008.9	-1,354.9	836.2	608.7	227.47	3.676		
24,130.0	9,776.1	23,049.5	8,964.0	112.7	111.9	12.43	-14,038.9	-1,355.2	836.2	608.3	227.94	3.669		
24,200.0	9,776.1	23,119.5	8,964.0	113.2	112.4	12.43	-14,108.9	-1,355.7	836.2	607.2	229.01	3.651		
24,225.0	9,776.1	23,144.5	8,964.0	113.4	112.6	12.43	-14,133.9	-1,355.9	836.2	606.8	229.40	3.645		
24,300.0	9,776.2	23,219.5	8,964.1	113.9	113.1	12.43	-14,208.9	-1,356.6	836.2	605.6	230.55	3.627		
24,320.0	9,776.2	23,239.5	8,964.1	114.1	113.3	12.43	-14,228.9	-1,356.7	836.2	605.3	230.86	3.622		
24,400.0	9,776.3	23,319.5	8,964.2	114.7	113.9	12.43	-14,308.9	-1,357.4	836.2	604.1	232.10	3.603		
24,415.0	9,776.3	23,334.5	8,964.2	114.8	114.0	12.43	-14,323.8	-1,357.5	836.2	603.8	232.33	3.599		
24,500.0	9,776.3	23,419.5	8,964.3	115.4	114.6	12.43	-14,408.8	-1,358.2	836.2	602.5	233.64	3.579		
24,510.0	9,776.3	23,429.5	8,964.3	115.5	114.7	12.43	-14,418.8	-1,358.3	836.2	602.4	233.79	3.577		
24,600.0	9,776.4	23,519.5	8,964.3	116.2	115.3	12.43	-14,508.8	-1,359.0	836.2	601.0	235.18	3.555		
24,605.0	9,776.4	23,524.5	8,964.3	116.2	115.4	12.43	-14,513.8	-1,359.1	836.2	600.9	235.26	3.554		

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

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Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1											Offset Site Error: 0.0 usft		
Survey Program: Reference		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8530-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)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
24,700.0	9,776.5	23,619.5	8,964.4	116.9	116.1	12.43	-14,608.8	-1,359.9	836.1	599.4	236.72	3.532	
24,795.0	9,776.5	23,714.5	8,964.5	117.6	116.8	12.43	-14,703.8	-1,360.7	836.1	598.0	238.19	3.510	
24,800.0	9,776.5	23,719.5	8,964.5	117.6	116.8	12.43	-14,708.8	-1,360.7	836.1	597.9	238.27	3.509	
24,890.0	9,776.6	23,809.5	8,964.6	118.3	117.5	12.43	-14,798.8	-1,361.4	836.1	596.5	239.66	3.489	
24,900.0	9,776.6	23,819.5	8,964.6	118.4	117.5	12.43	-14,808.8	-1,361.5	836.1	596.3	239.81	3.487	
24,985.0	9,776.7	23,904.5	8,964.6	119.0	118.2	12.43	-14,893.8	-1,362.2	836.1	595.0	241.12	3.468	
25,000.0	9,776.7	23,919.5	8,964.7	119.1	118.3	12.43	-14,908.8	-1,362.4	836.1	594.8	241.35	3.464	
25,080.0	9,776.7	23,999.5	8,964.7	119.7	118.9	12.43	-14,988.8	-1,363.0	836.1	593.5	242.59	3.447	
25,100.0	9,776.8	24,019.5	8,964.7	119.9	119.0	12.43	-15,008.8	-1,363.2	836.1	593.2	242.90	3.442	
25,175.0	9,776.8	24,094.5	8,964.8	120.4	119.6	12.43	-15,083.8	-1,363.8	836.1	592.1	244.05	3.426	
25,200.0	9,776.8	24,119.5	8,964.8	120.6	119.8	12.43	-15,108.8	-1,364.0	836.1	591.7	244.44	3.420	
25,270.0	9,776.9	24,189.5	8,964.9	121.1	120.3	12.43	-15,178.8	-1,364.6	836.1	590.6	245.52	3.405	
25,300.6	9,776.9	24,220.1	8,964.9	121.4	120.5	12.43	-15,209.5	-1,364.8	836.1	590.1	246.00	3.399	
25,365.0	9,777.0	24,284.5	8,965.0	121.8	121.0	12.43	-15,273.8	-1,365.4	836.1	589.1	246.99	3.385	
25,400.0	9,777.0	24,319.5	8,965.0	122.1	121.2	12.43	-15,308.8	-1,365.7	836.1	588.6	247.53	3.378	
25,425.9	9,777.0	24,345.4	8,965.0	122.3	121.4	12.43	-15,334.7	-1,365.9	836.1	588.2	247.93	3.372	
25,430.7	9,777.0	24,345.4	8,965.0	122.3	121.4	12.43	-15,334.7	-1,365.9	836.1	588.1	247.99	3.372 SF	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1													Offset Site Error: 0.0 usft	
Survey Program: Reference		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS						Rule Assigned:		Offset Well Error: 3.0 usft				
Offset		Semi Major Axis		Offset Wellbore Centre		Distance		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)	Separation Factor	Warning	
4,465.0	4,390.8	4,794.6	4,710.6	16.0	17.6	-31.53	96.8	-1,838.6	1,295.3	1,264.3	30.97	41.824		
4,500.0	4,424.7	4,826.3	4,741.3	16.2	17.7	-31.59	100.4	-1,831.8	1,280.4	1,249.2	31.24	40.984		
4,560.0	4,483.0	4,872.7	4,786.4	16.5	17.9	-31.68	105.7	-1,822.0	1,255.1	1,223.3	31.71	39.582		
4,600.0	4,521.8	4,900.0	4,812.9	16.6	18.0	-31.75	108.8	-1,816.5	1,238.5	1,206.4	32.02	38.681		
4,655.0	4,575.1	4,934.5	4,846.5	16.9	18.2	-31.83	112.4	-1,809.8	1,216.1	1,183.7	32.46	37.470		
4,700.0	4,618.8	4,964.1	4,875.5	17.1	18.3	-31.92	115.3	-1,804.3	1,198.3	1,165.5	32.82	36.517		
4,750.0	4,667.3	5,000.0	4,910.7	17.4	18.5	-32.03	118.7	-1,798.1	1,179.0	1,145.8	33.22	35.493		
4,800.0	4,715.8	5,030.7	4,940.8	17.6	18.7	-32.13	121.5	-1,793.0	1,160.2	1,126.6	33.61	34.519		
4,845.0	4,759.5	5,061.0	4,970.7	17.8	18.8	-32.24	124.0	-1,788.3	1,143.7	1,109.7	33.96	33.674		
4,900.0	4,812.9	5,100.0	5,009.2	18.1	19.0	-32.40	127.1	-1,782.7	1,124.1	1,089.7	34.40	32.680		
4,940.0	4,851.7	5,125.8	5,034.7	18.2	19.1	-32.51	129.0	-1,779.2	1,110.2	1,075.5	34.70	31.992		
5,000.0	4,909.9	5,167.2	5,075.6	18.5	19.3	-32.70	131.8	-1,774.1	1,090.1	1,055.0	35.16	31.002		
5,035.0	4,943.9	5,200.0	5,108.2	18.7	19.4	-32.86	133.8	-1,770.4	1,078.8	1,043.4	35.44	30.440		
5,100.0	5,006.9	5,237.0	5,144.9	19.0	19.6	-33.06	135.9	-1,766.6	1,058.4	1,022.5	35.92	29.469		
5,130.0	5,036.0	5,258.1	5,165.9	19.1	19.7	-33.17	136.9	-1,764.6	1,049.3	1,013.2	36.14	29.037		
5,200.0	5,104.0	5,300.0	5,207.6	19.5	19.9	-33.42	138.8	-1,761.1	1,029.0	992.3	36.63	28.087		
5,225.0	5,128.2	5,325.5	5,233.0	19.6	20.0	-33.58	139.9	-1,759.2	1,021.9	985.1	36.82	27.752		
5,300.0	5,201.0	5,379.3	5,286.7	19.9	20.2	-33.93	141.7	-1,755.9	1,001.8	964.5	37.35	26.825		
5,320.0	5,220.4	5,400.0	5,307.3	20.0	20.2	-34.08	142.2	-1,754.8	996.7	959.2	37.50	26.581		
5,400.0	5,298.0	5,451.7	5,359.0	20.4	20.4	-34.46	143.3	-1,752.8	977.1	939.1	38.00	25.712		
5,415.0	5,312.6	5,462.6	5,369.9	20.5	20.4	-34.54	143.5	-1,752.5	973.6	935.5	38.10	25.556		
5,500.0	5,395.1	5,524.8	5,432.1	20.9	20.6	-35.04	144.1	-1,751.3	954.9	916.3	38.58	24.750		
5,510.0	5,404.8	5,532.2	5,439.4	20.9	20.6	-35.10	144.2	-1,751.3	952.8	914.2	38.63	24.665		
5,600.0	5,492.1	5,612.6	5,519.9	21.4	20.7	-35.80	144.2	-1,751.2	934.8	895.8	39.00	23.966		
5,605.0	5,496.9	5,617.5	5,524.7	21.4	20.7	-35.85	144.2	-1,751.2	933.8	894.7	39.02	23.929		
5,700.0	5,589.1	5,709.7	5,616.9	21.8	20.7	-36.68	144.2	-1,751.2	915.0	875.6	39.40	23.225		
5,795.0	5,681.3	5,801.8	5,709.1	22.3	20.7	-37.55	144.2	-1,751.2	896.5	856.8	39.76	22.546		
5,800.0	5,686.1	5,806.7	5,713.9	22.3	20.7	-37.59	144.2	-1,751.2	895.6	855.8	39.78	22.511		
5,890.0	5,773.5	5,894.0	5,801.3	22.8	20.8	-38.45	144.2	-1,751.2	878.2	838.1	40.12	21.891		
5,900.0	5,783.2	5,903.7	5,811.0	22.8	20.8	-38.55	144.2	-1,751.2	876.3	836.1	40.15	21.823		
5,985.0	5,865.6	5,986.2	5,893.4	23.2	20.8	-39.39	144.2	-1,751.2	860.1	819.7	40.46	21.260		
6,000.0	5,880.2	6,000.7	5,908.0	23.3	20.8	-39.54	144.2	-1,751.2	857.3	816.8	40.51	21.163		
6,080.0	5,957.8	6,078.4	5,985.6	23.7	20.9	-40.37	144.2	-1,751.2	842.3	801.5	40.78	20.654		
6,100.0	5,977.2	6,097.8	6,005.0	23.8	20.9	-40.58	144.2	-1,751.2	838.5	797.7	40.85	20.529		
6,175.0	6,050.0	6,170.5	6,077.8	24.1	20.9	-41.39	144.2	-1,751.2	824.7	783.6	41.09	20.071		
6,200.0	6,074.3	6,194.8	6,102.1	24.2	20.9	-41.67	144.2	-1,751.2	820.1	778.9	41.16	19.922		
6,218.3	6,092.0	6,212.6	6,119.8	24.3	20.9	-41.87	144.2	-1,751.2	816.7	775.5	41.22	19.816		
6,270.0	6,142.3	6,262.8	6,170.1	24.6	20.9	-42.31	144.2	-1,751.2	807.7	766.3	41.37	19.524		
6,300.0	6,171.6	6,292.1	6,199.4	24.7	20.9	-42.56	144.2	-1,751.2	802.8	761.3	41.46	19.364		
6,365.0	6,235.2	6,355.7	6,263.0	25.0	21.0	-43.06	144.2	-1,751.2	793.0	751.4	41.65	19.040		
6,400.0	6,269.6	6,390.1	6,297.4	25.2	21.0	-43.31	144.2	-1,751.2	788.2	746.5	41.75	18.879		
6,460.0	6,328.7	6,449.3	6,356.5	25.5	21.0	-43.72	144.2	-1,751.2	780.8	738.9	41.92	18.626		
6,500.0	6,368.3	6,488.8	6,396.1	25.7	21.0	-43.97	144.2	-1,751.2	776.4	734.3	42.03	18.471		
6,555.0	6,422.7	6,543.3	6,450.5	25.9	21.1	-44.27	144.2	-1,751.2	771.0	728.8	42.18	18.278		
6,600.0	6,467.4	6,588.0	6,495.2	26.1	21.1	-44.50	144.2	-1,751.2	767.1	724.8	42.30	18.135		
6,650.0	6,517.2	6,637.7	6,545.0	26.3	21.1	-44.71	144.2	-1,751.2	763.5	721.1	42.43	17.994		
6,700.0	6,567.0	6,687.5	6,594.8	26.5	21.1	-44.90	144.2	-1,751.2	760.5	717.9	42.57	17.866		
6,745.0	6,611.9	6,732.4	6,639.7	26.7	21.1	-45.03	144.2	-1,751.2	758.3	715.6	42.68	17.769		
6,800.0	6,666.8	6,787.4	6,694.6	26.9	21.2	-45.15	144.2	-1,751.2	756.3	713.5	42.82	17.664		
6,840.0	6,706.8	6,827.3	6,734.6	27.0	21.2	-45.21	144.2	-1,751.2	755.4	712.5	42.91	17.605		
6,900.0	6,766.8	6,887.3	6,794.6	27.2	21.2	-45.25	144.2	-1,751.2	754.7	711.6	43.04	17.532		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor
6,918.2	6,785.0	6,905.5	6,812.8	27.2	21.2	-112.79	144.2	-1,751.2	754.6	711.5	43.06	17.523
6,935.0	6,801.8	6,922.3	6,829.6	27.2	21.2	-112.79	144.2	-1,751.2	754.6	711.5	43.08	17.518
7,000.0	6,866.8	6,987.3	6,894.6	27.2	21.3	-112.79	144.2	-1,751.2	754.6	711.5	43.13	17.497
7,030.0	6,896.8	7,017.3	6,924.6	27.2	21.3	-112.79	144.2	-1,751.2	754.6	711.5	43.15	17.487
7,100.0	6,966.8	7,087.3	6,994.6	27.2	21.3	-112.79	144.2	-1,751.2	754.6	711.4	43.21	17.463
7,125.0	6,991.8	7,112.3	7,019.6	27.2	21.3	-112.79	144.2	-1,751.2	754.6	711.4	43.23	17.455
7,200.0	7,066.8	7,187.3	7,094.6	27.3	21.3	-112.79	144.2	-1,751.2	754.6	711.3	43.30	17.429
7,220.0	7,086.8	7,207.3	7,114.6	27.3	21.4	-112.79	144.2	-1,751.2	754.6	711.3	43.31	17.422
7,300.0	7,166.8	7,287.3	7,194.6	27.3	21.4	-112.79	144.2	-1,751.2	754.6	711.2	43.38	17.394
7,315.0	7,181.8	7,302.3	7,209.6	27.3	21.4	-112.79	144.2	-1,751.2	754.6	711.2	43.40	17.389
7,400.0	7,266.8	7,387.3	7,294.6	27.3	21.4	-112.79	144.2	-1,751.2	754.6	711.1	43.47	17.360
7,410.0	7,276.8	7,397.3	7,304.6	27.3	21.4	-112.79	144.2	-1,751.2	754.6	711.1	43.48	17.357
7,500.0	7,366.8	7,487.3	7,394.6	27.4	21.5	-112.79	144.2	-1,751.2	754.6	711.1	43.55	17.326
7,505.0	7,371.8	7,492.3	7,399.6	27.4	21.5	-112.79	144.2	-1,751.2	754.6	711.1	43.56	17.324
7,600.0	7,466.8	7,587.3	7,494.6	27.4	21.5	-112.79	144.2	-1,751.2	754.6	711.0	43.64	17.291
7,695.0	7,561.8	7,682.3	7,589.6	27.4	21.6	-112.79	144.2	-1,751.2	754.6	710.9	43.72	17.258
7,700.0	7,566.8	7,687.3	7,594.6	27.4	21.6	-112.79	144.2	-1,751.2	754.6	710.9	43.73	17.256
7,790.0	7,656.8	7,777.3	7,684.6	27.5	21.6	-112.79	144.2	-1,751.2	754.6	710.8	43.81	17.225
7,800.0	7,666.8	7,787.3	7,694.6	27.5	21.6	-112.79	144.2	-1,751.2	754.6	710.8	43.82	17.222
7,885.0	7,751.8	7,872.3	7,779.6	27.5	21.7	-112.79	144.2	-1,751.2	754.6	710.7	43.89	17.192
7,900.0	7,766.8	7,887.3	7,794.6	27.5	21.7	-112.79	144.2	-1,751.2	754.6	710.7	43.91	17.187
7,980.0	7,846.8	7,967.3	7,874.6	27.5	21.7	-112.79	144.2	-1,751.2	754.6	710.6	43.98	17.160
8,000.0	7,866.8	7,987.3	7,894.6	27.5	21.7	-112.79	144.2	-1,751.2	754.6	710.6	43.99	17.153
8,075.0	7,941.8	8,062.3	7,969.6	27.6	21.7	-112.79	144.2	-1,751.2	754.6	710.6	44.06	17.127
8,100.0	7,966.8	8,087.3	7,994.6	27.6	21.8	-112.79	144.2	-1,751.2	754.6	710.5	44.08	17.118
8,170.0	8,036.8	8,157.3	8,064.6	27.6	21.8	-112.79	144.2	-1,751.2	754.6	710.5	44.15	17.094
8,200.0	8,066.8	8,187.3	8,094.6	27.6	21.8	-112.79	144.2	-1,751.2	754.6	710.4	44.17	17.083
8,265.0	8,131.8	8,252.3	8,159.6	27.6	21.8	-112.79	144.2	-1,751.2	754.6	710.4	44.23	17.061
8,300.0	8,166.8	8,287.3	8,194.6	27.6	21.9	-112.79	144.2	-1,751.2	754.6	710.3	44.26	17.049
8,360.0	8,226.8	8,347.3	8,254.6	27.6	21.9	-112.79	144.2	-1,751.2	754.6	710.3	44.32	17.028
8,400.0	8,266.8	8,387.3	8,294.6	27.7	21.9	-112.79	144.2	-1,751.2	754.6	710.3	44.35	17.014
8,455.0	8,321.8	8,442.3	8,349.6	27.7	21.9	-112.79	144.2	-1,751.2	754.6	710.2	44.40	16.996
8,462.0	8,328.7	8,449.3	8,356.5	27.7	21.9	-112.79	144.2	-1,751.2	754.6	710.2	44.41	16.994 CC
8,500.0	8,366.8	8,485.8	8,393.0	27.7	21.9	-112.79	144.2	-1,751.2	754.6	710.2	44.44	16.981 ES
8,550.0	8,416.8	8,519.6	8,426.9	27.7	22.0	-112.86	143.2	-1,751.2	755.2	710.8	44.46	16.986
8,600.0	8,466.8	8,550.0	8,457.1	27.7	22.0	-113.04	140.6	-1,751.2	757.0	712.5	44.45	17.029
8,645.0	8,511.8	8,581.2	8,488.1	27.7	22.0	-113.34	136.3	-1,751.3	759.5	715.1	44.41	17.102
8,700.0	8,566.8	8,616.0	8,522.1	27.8	22.0	-113.81	129.5	-1,751.3	764.0	719.7	44.33	17.235
8,740.0	8,606.8	8,640.7	8,546.1	27.8	22.0	-114.23	123.4	-1,751.4	768.2	724.0	44.24	17.364
8,800.0	8,666.8	8,676.7	8,580.4	27.8	22.0	-114.95	112.7	-1,751.5	776.1	732.0	44.07	17.609
8,835.0	8,701.8	8,700.0	8,602.3	27.8	22.0	-115.49	104.6	-1,751.6	781.6	737.6	43.95	17.781
8,900.0	8,766.8	8,733.2	8,632.8	27.8	22.0	-116.35	91.6	-1,751.7	793.6	749.9	43.69	18.162
8,930.0	8,796.8	8,750.0	8,648.0	27.8	22.1	-116.83	84.4	-1,751.7	800.0	756.4	43.56	18.366
9,000.0	8,866.8	8,785.0	8,678.8	27.9	22.1	-117.90	67.8	-1,751.9	816.9	773.7	43.20	18.909
9,025.0	8,891.8	8,800.0	8,691.7	27.9	22.1	-118.38	60.2	-1,751.9	823.7	780.7	43.07	19.126
9,100.0	8,966.8	8,832.0	8,718.5	27.9	22.1	-119.48	42.8	-1,752.1	846.4	803.8	42.63	19.854
9,120.0	8,986.8	8,850.0	8,733.2	27.9	22.1	-120.12	32.3	-1,752.2	853.2	810.7	42.52	20.067
9,200.0	9,066.8	8,874.1	8,752.3	27.9	22.1	-121.02	17.5	-1,752.3	882.2	840.1	42.01	20.997
9,215.0	9,081.8	8,880.1	8,756.9	28.0	22.1	-121.24	13.8	-1,752.4	888.0	846.1	41.92	21.185
9,300.0	9,166.8	8,900.0	8,772.1	28.0	22.1	-122.01	0.9	-1,752.5	924.1	882.8	41.37	22.339
9,310.0	9,176.8	8,915.4	8,783.5	28.0	22.1	-122.61	-9.5	-1,752.6	928.5	887.2	41.32	22.472

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,326.3	9,193.0	8,921.1	8,787.7	28.0	22.1	-122.83	-13.3	-1,752.6	935.9	894.7	41.21	22.710	
9,350.0	9,216.8	8,929.3	8,793.6	28.0	22.2	55.36	-19.1	-1,752.6	946.8	905.6	41.20	22.981	
9,400.0	9,266.6	8,950.0	8,808.1	28.0	22.2	52.62	-33.8	-1,752.8	969.2	928.3	40.93	23.678	
9,405.0	9,271.5	8,950.0	8,808.1	28.0	22.2	52.42	-33.8	-1,752.8	971.4	930.5	40.91	23.746	
9,450.0	9,315.8	8,965.1	8,818.3	28.0	22.2	50.32	-44.8	-1,752.9	990.5	949.8	40.70	24.336	
9,500.0	9,364.1	8,983.4	8,830.4	28.0	22.2	48.16	-58.6	-1,753.0	1,010.7	970.2	40.51	24.946	
9,550.0	9,411.1	9,000.0	8,841.0	28.0	22.2	46.29	-71.5	-1,753.1	1,029.5	989.1	40.36	25.504	
9,595.0	9,452.0	9,019.0	8,852.5	28.1	22.2	44.73	-86.5	-1,753.2	1,045.1	1,004.8	40.27	25.955	
9,600.0	9,456.5	9,020.9	8,853.7	28.1	22.2	44.57	-88.0	-1,753.3	1,046.8	1,006.5	40.26	26.003	
9,650.0	9,499.8	9,050.0	8,870.4	28.1	22.2	42.96	-111.9	-1,753.5	1,062.6	1,022.4	40.18	26.442	
9,690.0	9,532.8	9,050.0	8,870.4	28.1	22.2	42.17	-111.9	-1,753.5	1,073.8	1,033.6	40.15	26.744	
9,700.0	9,540.8	9,050.0	8,870.4	28.1	22.2	41.98	-111.9	-1,753.5	1,076.5	1,036.4	40.15	26.814	
9,750.0	9,579.2	9,078.5	8,885.5	28.1	22.3	40.82	-135.9	-1,753.7	1,088.6	1,048.4	40.15	27.114	
9,785.0	9,604.3	9,100.0	8,896.2	28.1	22.3	40.13	-154.7	-1,753.8	1,096.0	1,055.9	40.17	27.287	
9,800.0	9,614.6	9,100.0	8,896.2	28.1	22.3	39.94	-154.7	-1,753.8	1,098.8	1,058.6	40.18	27.347	
9,850.0	9,646.8	9,117.5	8,904.3	28.2	22.3	39.28	-170.1	-1,754.0	1,107.1	1,066.9	40.25	27.508	
9,880.0	9,664.5	9,129.2	8,909.5	28.2	22.3	38.96	-180.7	-1,754.1	1,111.2	1,070.9	40.30	27.570	
9,900.0	9,675.6	9,150.0	8,918.2	28.2	22.3	38.72	-199.6	-1,754.2	1,113.6	1,073.3	40.34	27.607	
9,950.0	9,700.7	9,150.0	8,918.2	28.2	22.3	38.46	-199.6	-1,754.2	1,117.8	1,077.3	40.47	27.617	
9,975.0	9,711.8	9,166.6	8,924.6	28.2	22.3	38.34	-214.9	-1,754.4	1,119.1	1,078.5	40.55	27.600	
10,000.0	9,721.9	9,176.5	8,928.2	28.3	22.4	38.27	-224.1	-1,754.5	1,119.9	1,079.3	40.63	27.566	
10,050.0	9,739.1	9,200.0	8,936.1	28.3	22.4	38.26	-246.2	-1,754.7	1,120.1	1,079.3	40.81	27.450	
10,070.0	9,744.8	9,200.0	8,936.1	28.3	22.4	38.30	-246.2	-1,754.7	1,119.6	1,078.7	40.89	27.380	
10,100.0	9,752.1	9,215.9	8,941.0	28.3	22.4	38.41	-261.3	-1,754.8	1,118.1	1,077.1	41.01	27.262	
10,150.0	9,760.9	9,250.0	8,950.0	28.4	22.4	38.78	-294.2	-1,755.1	1,114.4	1,073.2	41.23	27.028	
10,165.0	9,762.7	9,250.0	8,950.0	28.4	22.4	38.89	-294.2	-1,755.1	1,112.6	1,071.3	41.31	26.934	
10,200.0	9,765.4	9,250.0	8,950.0	28.4	22.4	39.18	-294.2	-1,755.1	1,108.1	1,066.6	41.50	26.704	
10,225.9	9,766.0	9,265.3	8,953.4	28.5	22.4	39.53	-309.2	-1,755.2	1,104.2	1,062.6	41.62	26.531	
10,260.0	9,766.0	9,278.8	8,956.0	28.5	22.5	39.61	-322.3	-1,755.3	1,099.0	1,057.2	41.79	26.299	
10,300.0	9,766.1	9,300.0	8,959.6	28.5	22.5	39.73	-343.3	-1,755.5	1,093.7	1,051.8	41.98	26.055	
10,355.0	9,766.1	9,316.7	8,961.8	28.6	22.5	39.81	-359.8	-1,755.7	1,087.8	1,045.6	42.25	25.745	
10,400.0	9,766.1	9,334.9	8,963.7	28.7	22.5	39.87	-377.9	-1,755.8	1,084.3	1,041.8	42.47	25.531	
10,450.0	9,766.2	9,350.0	8,964.9	28.8	22.5	39.91	-393.0	-1,756.0	1,081.6	1,038.9	42.71	25.323	
10,500.0	9,766.2	9,385.2	8,966.0	28.8	22.6	39.95	-428.2	-1,756.3	1,080.4	1,037.5	42.92	25.174	
10,523.4	9,766.2	9,385.3	8,966.0	28.9	22.6	39.95	-428.3	-1,756.3	1,080.1	1,037.1	43.03	25.101	
10,545.0	9,766.2	9,406.9	8,966.0	28.9	22.6	39.95	-449.9	-1,756.5	1,080.1	1,037.0	43.11	25.055	
10,600.0	9,766.3	9,461.9	8,966.1	29.0	22.7	39.95	-504.8	-1,756.9	1,080.1	1,036.8	43.32	24.933	
10,640.0	9,766.3	9,501.9	8,966.1	29.1	22.7	39.96	-544.8	-1,757.3	1,080.1	1,036.7	43.49	24.839	
10,700.0	9,766.3	9,561.9	8,966.2	29.2	22.8	39.96	-604.8	-1,757.8	1,080.2	1,036.4	43.75	24.690	
10,735.0	9,766.4	9,596.9	8,966.2	29.2	22.9	39.96	-639.8	-1,758.1	1,080.2	1,036.3	43.91	24.599	
10,800.0	9,766.4	9,661.9	8,966.3	29.4	23.0	39.96	-704.8	-1,758.7	1,080.2	1,035.9	44.23	24.422	
10,830.0	9,766.4	9,691.9	8,966.3	29.4	23.0	39.96	-734.8	-1,759.0	1,080.2	1,035.8	44.38	24.338	
10,900.0	9,766.5	9,761.9	8,966.4	29.6	23.2	39.96	-804.8	-1,759.6	1,080.2	1,035.4	44.76	24.134	
10,925.0	9,766.5	9,786.9	8,966.4	29.6	23.2	39.97	-829.8	-1,759.8	1,080.2	1,035.3	44.90	24.058	
11,000.0	9,766.6	9,861.9	8,966.5	29.8	23.4	39.97	-904.8	-1,760.5	1,080.2	1,034.9	45.34	23.826	
11,020.0	9,766.6	9,881.9	8,966.5	29.9	23.4	39.97	-924.8	-1,760.7	1,080.2	1,034.8	45.46	23.762	
11,100.0	9,766.6	9,961.9	8,966.6	30.0	23.6	39.97	-1,004.8	-1,761.4	1,080.2	1,034.3	45.96	23.502	
11,115.0	9,766.6	9,976.9	8,966.6	30.1	23.6	39.97	-1,019.8	-1,761.5	1,080.2	1,034.2	46.06	23.452	
11,200.0	9,766.7	10,061.9	8,966.7	30.3	23.8	39.97	-1,104.8	-1,762.3	1,080.2	1,033.6	46.63	23.165	
11,210.0	9,766.7	10,071.9	8,966.7	30.3	23.8	39.97	-1,114.8	-1,762.4	1,080.2	1,033.5	46.70	23.131	
11,300.0	9,766.8	10,161.9	8,966.8	30.6	24.1	39.98	-1,204.8	-1,763.1	1,080.3	1,032.9	47.34	22.817	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1													Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Rule Assigned:					
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)	Distance Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
11,305.0	9,766.8	10,166.9	8,966.8	30.6	24.1	39.98	-1,209.8	-1,763.2	1,080.3	1,032.9	47.38	22.799		
11,400.0	9,766.8	10,261.9	8,966.9	30.9	24.3	39.98	-1,304.8	-1,764.0	1,080.3	1,032.2	48.10	22.460		
11,495.0	9,766.9	10,356.9	8,967.0	31.1	24.6	39.98	-1,399.8	-1,764.9	1,080.3	1,031.4	48.85	22.115		
11,500.0	9,766.9	10,361.9	8,967.0	31.2	24.6	39.98	-1,404.8	-1,764.9	1,080.3	1,031.4	48.89	22.097		
11,590.0	9,767.0	10,451.9	8,967.1	31.4	24.9	39.99	-1,494.8	-1,765.7	1,080.3	1,030.7	49.63	21.766		
11,600.0	9,767.0	10,461.9	8,967.1	31.5	24.9	39.99	-1,504.8	-1,765.8	1,080.3	1,030.6	49.72	21.729		
11,685.0	9,767.1	10,546.9	8,967.2	31.8	25.2	39.99	-1,589.8	-1,766.6	1,080.3	1,029.9	50.45	21.415		
11,700.0	9,767.1	10,561.9	8,967.2	31.8	25.3	39.99	-1,604.8	-1,766.7	1,080.3	1,029.7	50.58	21.359		
11,780.0	9,767.1	10,641.9	8,967.3	32.1	25.5	39.99	-1,684.8	-1,767.4	1,080.3	1,029.0	51.29	21.062		
11,800.0	9,767.1	10,661.9	8,967.3	32.1	25.6	39.99	-1,704.8	-1,767.6	1,080.3	1,028.9	51.47	20.988		
11,875.0	9,767.2	10,736.9	8,967.4	32.4	25.9	40.00	-1,779.8	-1,768.2	1,080.3	1,028.2	52.17	20.710		
11,900.0	9,767.2	10,761.9	8,967.4	32.5	26.0	40.00	-1,804.8	-1,768.5	1,080.3	1,028.0	52.40	20.618		
11,970.0	9,767.3	10,831.9	8,967.5	32.8	26.2	40.00	-1,874.8	-1,769.1	1,080.4	1,027.3	53.06	20.359		
12,000.0	9,767.3	10,861.9	8,967.5	32.9	26.3	40.00	-1,904.8	-1,769.3	1,080.4	1,027.0	53.35	20.249		
12,065.0	9,767.3	10,926.9	8,967.6	33.1	26.6	40.00	-1,969.8	-1,769.9	1,080.4	1,026.4	53.99	20.011		
12,100.0	9,767.4	10,961.9	8,967.6	33.2	26.7	40.00	-2,004.8	-1,770.2	1,080.4	1,026.0	54.34	19.884		
12,160.0	9,767.4	11,021.9	8,967.6	33.5	27.0	40.01	-2,064.8	-1,770.8	1,080.4	1,025.5	54.94	19.666		
12,200.0	9,767.4	11,061.9	8,967.7	33.6	27.1	40.01	-2,104.8	-1,771.1	1,080.4	1,025.1	55.34	19.522		
12,255.0	9,767.5	11,116.9	8,967.7	33.9	27.4	40.01	-2,159.8	-1,771.6	1,080.4	1,024.5	55.91	19.324		
12,300.0	9,767.5	11,161.9	8,967.8	34.0	27.6	40.01	-2,204.8	-1,772.0	1,080.4	1,024.0	56.38	19.164		
12,350.0	9,767.5	11,211.9	8,967.8	34.2	27.8	40.01	-2,254.8	-1,772.4	1,080.4	1,023.5	56.90	18.987		
12,400.0	9,767.6	11,261.9	8,967.9	34.5	28.0	40.01	-2,304.8	-1,772.9	1,080.4	1,023.0	57.43	18.812		
12,445.0	9,767.6	11,306.9	8,967.9	34.6	28.2	40.02	-2,349.8	-1,773.3	1,080.4	1,022.5	57.91	18.656		
12,500.0	9,767.6	11,361.9	8,968.0	34.9	28.5	40.02	-2,404.8	-1,773.8	1,080.4	1,021.9	58.51	18.466		
12,540.0	9,767.7	11,401.9	8,968.0	35.1	28.6	40.02	-2,444.8	-1,774.1	1,080.5	1,021.5	58.95	18.329		
12,600.0	9,767.7	11,461.9	8,968.1	35.3	28.9	40.02	-2,504.8	-1,774.7	1,080.5	1,020.9	59.61	18.126		
12,635.0	9,767.7	11,496.9	8,968.1	35.5	29.1	40.02	-2,539.8	-1,775.0	1,080.5	1,020.5	60.00	18.008		
12,700.0	9,767.8	11,561.9	8,968.2	35.8	29.4	40.02	-2,604.8	-1,775.5	1,080.5	1,019.7	60.73	17.792		
12,730.0	9,767.8	11,591.9	8,968.2	35.9	29.6	40.03	-2,634.8	-1,775.8	1,080.5	1,019.4	61.07	17.694		
12,800.0	9,767.9	11,661.9	8,968.3	36.2	29.9	40.03	-2,704.8	-1,776.4	1,080.5	1,018.6	61.86	17.466		
12,825.0	9,767.9	11,686.9	8,968.3	36.3	30.0	40.03	-2,729.8	-1,776.7	1,080.5	1,018.3	62.15	17.385		
12,900.0	9,767.9	11,761.9	8,968.4	36.7	30.4	40.03	-2,804.8	-1,777.3	1,080.5	1,017.5	63.02	17.146		
12,920.0	9,767.9	11,781.9	8,968.4	36.8	30.5	40.03	-2,824.8	-1,777.5	1,080.5	1,017.3	63.25	17.083		
13,000.0	9,768.0	11,861.9	8,968.5	37.2	30.9	40.03	-2,904.8	-1,778.2	1,080.5	1,016.3	64.19	16.834		
13,015.0	9,768.0	11,876.9	8,968.5	37.2	31.0	40.03	-2,919.8	-1,778.3	1,080.5	1,016.2	64.36	16.788		
13,100.0	9,768.1	11,961.9	8,968.6	37.7	31.5	40.04	-3,004.7	-1,779.1	1,080.5	1,015.2	65.37	16.529		
13,110.0	9,768.1	11,971.9	8,968.6	37.7	31.5	40.04	-3,014.7	-1,779.2	1,080.5	1,015.0	65.49	16.498		
13,200.0	9,768.2	12,061.9	8,968.7	38.2	32.0	40.04	-3,104.7	-1,780.0	1,080.6	1,014.0	66.57	16.231		
13,205.0	9,768.2	12,066.9	8,968.7	38.2	32.0	40.04	-3,109.7	-1,780.0	1,080.6	1,013.9	66.64	16.216		
13,300.0	9,768.2	12,161.9	8,968.8	38.7	32.5	40.04	-3,204.7	-1,780.9	1,080.6	1,012.8	67.79	15.940		
13,395.0	9,768.3	12,256.9	8,968.9	39.2	33.1	40.05	-3,299.7	-1,781.7	1,080.6	1,011.6	68.96	15.671		
13,400.0	9,768.3	12,261.9	8,968.9	39.2	33.1	40.05	-3,304.7	-1,781.7	1,080.6	1,011.6	69.02	15.657		
13,490.0	9,768.4	12,351.9	8,969.0	39.7	33.6	40.05	-3,394.7	-1,782.5	1,080.6	1,010.5	70.13	15.408		
13,500.0	9,768.4	12,361.9	8,969.0	39.7	33.7	40.05	-3,404.7	-1,782.6	1,080.6	1,010.3	70.26	15.381		
13,585.0	9,768.4	12,446.9	8,969.1	40.2	34.2	40.05	-3,489.7	-1,783.4	1,080.6	1,009.3	71.32	15.151		
13,600.0	9,768.4	12,461.9	8,969.1	40.2	34.2	40.05	-3,504.7	-1,783.5	1,080.6	1,009.1	71.51	15.111		
13,680.0	9,768.5	12,541.9	8,969.2	40.7	34.7	40.06	-3,584.7	-1,784.2	1,080.6	1,008.1	72.52	14.901		
13,700.0	9,768.5	12,561.9	8,969.2	40.8	34.8	40.06	-3,604.7	-1,784.4	1,080.6	1,007.9	72.77	14.849		
13,775.0	9,768.6	12,636.9	8,969.3	41.2	35.3	40.06	-3,679.7	-1,785.1	1,080.6	1,006.9	73.73	14.657		
13,800.0	9,768.6	12,661.9	8,969.3	41.3	35.4	40.06	-3,704.7	-1,785.3	1,080.7	1,006.6	74.05	14.594		
13,870.0	9,768.6	12,731.9	8,969.4	41.7	35.8	40.06	-3,774.7	-1,785.9	1,080.7	1,005.7	74.95	14.419		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1														Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS														Offset Well Error: 3.0 usft	
Reference Offset				Semi Major Axis		Offset Wellbore Centre				Rule Assigned: Distance					
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)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
13,900.0	9,768.7	12,761.9	8,969.4	41.9	36.0	40.06	-3,804.7	-1,786.2	1,080.7	1,005.3	75.33	14.345			
13,965.0	9,768.7	12,826.9	8,969.5	42.2	36.4	40.07	-3,869.7	-1,786.7	1,080.7	1,004.5	76.17	14.187			
14,000.0	9,768.7	12,861.9	8,969.5	42.4	36.6	40.07	-3,904.7	-1,787.1	1,080.7	1,004.1	76.63	14.103			
14,060.0	9,768.8	12,921.9	8,969.6	42.8	37.0	40.07	-3,964.7	-1,787.6	1,080.7	1,003.3	77.41	13.961			
14,100.0	9,768.8	12,961.9	8,969.6	43.0	37.2	40.07	-4,004.7	-1,787.9	1,080.7	1,002.8	77.93	13.867			
14,155.0	9,768.8	13,016.9	8,969.7	43.3	37.6	40.07	-4,059.7	-1,788.4	1,080.7	1,002.1	78.65	13.740			
14,200.0	9,768.9	13,061.9	8,969.7	43.6	37.9	40.07	-4,104.7	-1,788.8	1,080.7	1,001.5	79.24	13.638			
14,250.0	9,768.9	13,111.9	8,969.8	43.9	38.2	40.08	-4,154.7	-1,789.3	1,080.7	1,000.8	79.90	13.526			
14,300.0	9,768.9	13,161.9	8,969.8	44.2	38.5	40.08	-4,204.7	-1,789.7	1,080.7	1,000.2	80.56	13.415			
14,345.0	9,769.0	13,206.9	8,969.8	44.4	38.8	40.08	-4,249.7	-1,790.1	1,080.7	999.6	81.16	13.316			
14,400.0	9,769.0	13,261.9	8,969.9	44.7	39.1	40.08	-4,304.7	-1,790.6	1,080.7	998.9	81.89	13.197			
14,440.0	9,769.0	13,301.9	8,969.9	45.0	39.4	40.08	-4,344.7	-1,791.0	1,080.8	998.3	82.42	13.112			
14,500.0	9,769.1	13,361.9	8,970.0	45.3	39.7	40.08	-4,404.7	-1,791.5	1,080.8	997.5	83.23	12.986			
14,535.0	9,769.1	13,396.9	8,970.0	45.5	40.0	40.09	-4,439.7	-1,791.8	1,080.8	997.1	83.70	12.913			
14,600.0	9,769.2	13,461.9	8,970.1	45.9	40.4	40.09	-4,504.7	-1,792.4	1,080.8	996.2	84.57	12.780			
14,630.0	9,769.2	13,491.9	8,970.1	46.1	40.6	40.09	-4,534.7	-1,792.6	1,080.8	995.8	84.97	12.719			
14,700.0	9,769.2	13,561.9	8,970.2	46.5	41.0	40.09	-4,604.7	-1,793.3	1,080.8	994.9	85.92	12.579			
14,725.0	9,769.3	13,586.9	8,970.2	46.7	41.2	40.09	-4,629.7	-1,793.5	1,080.8	994.5	86.26	12.530			
14,800.0	9,769.3	13,661.9	8,970.3	47.1	41.7	40.09	-4,704.7	-1,794.1	1,080.8	993.5	87.28	12.384			
14,820.0	9,769.3	13,681.9	8,970.3	47.2	41.8	40.10	-4,724.7	-1,794.3	1,080.8	993.3	87.55	12.345			
14,900.0	9,769.4	13,761.9	8,970.4	47.7	42.3	40.10	-4,804.7	-1,795.0	1,080.8	992.2	88.64	12.194			
14,915.0	9,769.4	13,776.9	8,970.4	47.8	42.4	40.10	-4,819.7	-1,795.2	1,080.8	992.0	88.84	12.165			
15,000.0	9,769.5	13,861.9	8,970.5	48.4	43.0	40.10	-4,904.7	-1,795.9	1,080.8	990.8	90.01	12.008			
15,010.0	9,769.5	13,871.9	8,970.5	48.4	43.0	40.10	-4,914.7	-1,796.0	1,080.8	990.7	90.15	11.990			
15,100.0	9,769.5	13,961.9	8,970.6	49.0	43.6	40.10	-5,004.7	-1,796.8	1,080.9	989.5	91.38	11.828			
15,105.0	9,769.5	13,966.9	8,970.6	49.0	43.7	40.10	-5,009.7	-1,796.8	1,080.9	989.4	91.45	11.819			
15,200.0	9,769.6	14,061.9	8,970.7	49.6	44.3	40.11	-5,104.7	-1,797.7	1,080.9	988.1	92.76	11.652			
15,295.0	9,769.7	14,156.9	8,970.8	50.2	44.9	40.11	-5,199.7	-1,798.5	1,080.9	986.8	94.08	11.489			
15,300.0	9,769.7	14,161.9	8,970.8	50.2	45.0	40.11	-5,204.7	-1,798.6	1,080.9	986.7	94.15	11.481			
15,390.0	9,769.7	14,251.9	8,970.9	50.8	45.6	40.11	-5,294.7	-1,799.4	1,080.9	985.5	95.40	11.331			
15,400.0	9,769.7	14,261.9	8,970.9	50.9	45.6	40.11	-5,304.7	-1,799.5	1,080.9	985.4	95.54	11.314			
15,485.0	9,769.8	14,346.9	8,971.0	51.4	46.2	40.12	-5,389.7	-1,800.2	1,080.9	984.2	96.72	11.176			
15,500.0	9,769.8	14,361.9	8,971.0	51.5	46.3	40.12	-5,404.7	-1,800.3	1,080.9	984.0	96.93	11.151			
15,580.0	9,769.9	14,441.9	8,971.1	52.0	46.9	40.12	-5,484.7	-1,801.0	1,080.9	982.9	98.05	11.024			
15,600.0	9,769.9	14,461.9	8,971.1	52.1	47.0	40.12	-5,504.6	-1,801.2	1,080.9	982.6	98.33	10.993			
15,675.0	9,769.9	14,536.9	8,971.2	52.6	47.5	40.12	-5,579.6	-1,801.9	1,081.0	981.6	99.38	10.877			
15,700.0	9,770.0	14,561.9	8,971.2	52.8	47.7	40.12	-5,604.6	-1,802.1	1,081.0	981.2	99.73	10.838			
15,770.0	9,770.0	14,631.9	8,971.3	53.2	48.1	40.13	-5,674.6	-1,802.7	1,081.0	980.2	100.72	10.732			
15,800.0	9,770.0	14,661.9	8,971.3	53.4	48.3	40.13	-5,704.6	-1,803.0	1,081.0	979.8	101.14	10.688			
15,865.0	9,770.1	14,726.9	8,971.4	53.8	48.8	40.13	-5,769.6	-1,803.6	1,081.0	978.9	102.06	10.592			
15,900.0	9,770.1	14,761.9	8,971.4	54.1	49.0	40.13	-5,804.6	-1,803.9	1,081.0	978.4	102.55	10.541			
15,960.0	9,770.1	14,821.9	8,971.5	54.5	49.4	40.13	-5,864.6	-1,804.4	1,081.0	977.6	103.40	10.454			
16,000.0	9,770.2	14,861.9	8,971.5	54.7	49.7	40.13	-5,904.6	-1,804.8	1,081.0	977.0	103.97	10.397			
16,055.0	9,770.2	14,916.9	8,971.6	55.1	50.1	40.14	-5,959.6	-1,805.3	1,081.0	976.3	104.75	10.320			
16,100.0	9,770.2	14,961.9	8,971.6	55.4	50.4	40.14	-6,004.6	-1,805.7	1,081.0	975.6	105.39	10.257			
16,150.0	9,770.3	15,011.9	8,971.7	55.7	50.8	40.14	-6,054.6	-1,806.1	1,081.0	974.9	106.10	10.189			
16,200.0	9,770.3	15,061.9	8,971.7	56.0	51.1	40.14	-6,104.6	-1,806.5	1,081.0	974.2	106.81	10.121			
16,245.0	9,770.4	15,106.9	8,971.8	56.3	51.4	40.14	-6,149.6	-1,806.9	1,081.0	973.6	107.45	10.060			
16,300.0	9,770.4	15,161.9	8,971.8	56.7	51.8	40.14	-6,204.6	-1,807.4	1,081.1	972.8	108.24	9.988			
16,340.0	9,770.4	15,201.9	8,971.9	57.0	52.1	40.15	-6,244.6	-1,807.8	1,081.1	972.2	108.81	9.935			
16,400.0	9,770.5	15,261.9	8,971.9	57.4	52.5	40.15	-6,304.6	-1,808.3	1,081.1	971.4	109.67	9.858			

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1												Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS												Offset Well Error: 3.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Rule Assigned: Distance			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)	Separation Factor	
16,435.0	9,770.5	15,296.9	8,972.0	57.6	52.7	40.15	-6,339.6	-1,808.6	1,081.1	970.9	110.17	9.813	
16,500.0	9,770.5	15,361.9	8,972.0	58.0	53.2	40.15	-6,404.6	-1,809.2	1,081.1	970.0	111.10	9.731	
16,530.0	9,770.6	15,391.9	8,972.1	58.2	53.4	40.15	-6,434.6	-1,809.5	1,081.1	969.6	111.53	9.693	
16,600.0	9,770.6	15,461.9	8,972.1	58.7	53.9	40.15	-6,504.6	-1,810.1	1,081.1	968.6	112.54	9.606	
16,625.0	9,770.6	15,486.9	8,972.1	58.9	54.1	40.16	-6,529.6	-1,810.3	1,081.1	968.2	112.90	9.576	
16,700.0	9,770.7	15,561.9	8,972.2	59.4	54.6	40.16	-6,604.6	-1,811.0	1,081.1	967.1	113.98	9.485	
16,720.0	9,770.7	15,581.9	8,972.2	59.5	54.7	40.16	-6,624.6	-1,811.1	1,081.1	966.9	114.27	9.461	
16,800.0	9,770.8	15,661.9	8,972.3	60.0	55.3	40.16	-6,704.6	-1,811.9	1,081.1	965.7	115.42	9.367	
16,815.0	9,770.8	15,676.9	8,972.3	60.1	55.4	40.16	-6,719.6	-1,812.0	1,081.1	965.5	115.64	9.349	
16,900.0	9,770.8	15,761.9	8,972.4	60.7	56.0	40.16	-6,804.6	-1,812.7	1,081.2	964.3	116.86	9.251	
16,910.0	9,770.8	15,771.9	8,972.4	60.8	56.1	40.17	-6,814.6	-1,812.8	1,081.2	964.1	117.01	9.240	
17,000.0	9,770.9	15,861.9	8,972.5	61.4	56.7	40.17	-6,904.6	-1,813.6	1,081.2	962.9	118.31	9.138	
17,005.0	9,770.9	15,866.9	8,972.5	61.4	56.7	40.17	-6,909.6	-1,813.7	1,081.2	962.8	118.38	9.133	
17,100.0	9,771.0	15,961.9	8,972.6	62.1	57.4	40.17	-7,004.6	-1,814.5	1,081.2	961.4	119.76	9.028	
17,195.0	9,771.0	16,056.9	8,972.7	62.7	58.1	40.17	-7,099.6	-1,815.4	1,081.2	960.1	121.14	8.925	
17,200.0	9,771.0	16,061.9	8,972.7	62.7	58.1	40.17	-7,104.6	-1,815.4	1,081.2	960.0	121.21	8.920	
17,290.0	9,771.1	16,151.9	8,972.8	63.4	58.8	40.18	-7,194.6	-1,816.2	1,081.2	958.7	122.52	8.825	
17,300.0	9,771.1	16,161.9	8,972.8	63.4	58.8	40.18	-7,204.6	-1,816.3	1,081.2	958.5	122.67	8.814	
17,385.0	9,771.2	16,246.9	8,972.9	64.0	59.4	40.18	-7,289.6	-1,817.0	1,081.2	957.3	123.91	8.726	
17,400.0	9,771.2	16,261.9	8,972.9	64.1	59.5	40.18	-7,304.6	-1,817.2	1,081.2	957.1	124.13	8.711	
17,480.0	9,771.2	16,341.9	8,973.0	64.7	60.1	40.18	-7,384.6	-1,817.9	1,081.2	956.0	125.29	8.630	
17,500.0	9,771.3	16,361.9	8,973.0	64.8	60.3	40.18	-7,404.6	-1,818.1	1,081.2	955.7	125.58	8.610	
17,575.0	9,771.3	16,436.9	8,973.1	65.3	60.8	40.19	-7,479.6	-1,818.7	1,081.3	954.6	126.68	8.535	
17,600.0	9,771.3	16,461.9	8,973.1	65.5	61.0	40.19	-7,504.6	-1,818.9	1,081.3	954.2	127.05	8.511	
17,670.0	9,771.4	16,531.9	8,973.2	66.0	61.5	40.19	-7,574.6	-1,819.6	1,081.3	953.2	128.07	8.443	
17,700.0	9,771.4	16,561.9	8,973.2	66.2	61.7	40.19	-7,604.6	-1,819.8	1,081.3	952.8	128.51	8.414	
17,765.0	9,771.5	16,626.9	8,973.3	66.6	62.2	40.19	-7,669.6	-1,820.4	1,081.3	951.8	129.46	8.352	
17,800.0	9,771.5	16,661.9	8,973.3	66.9	62.4	40.20	-7,704.6	-1,820.7	1,081.3	951.3	129.97	8.319	
17,860.0	9,771.5	16,721.9	8,973.4	67.3	62.8	40.20	-7,764.6	-1,821.2	1,081.3	950.5	130.85	8.263	
17,900.0	9,771.6	16,761.9	8,973.4	67.6	63.1	40.20	-7,804.6	-1,821.6	1,081.3	949.9	131.44	8.227	
17,955.0	9,771.6	16,816.9	8,973.5	68.0	63.5	40.20	-7,859.6	-1,822.1	1,081.3	949.1	132.25	8.176	
18,000.0	9,771.6	16,861.9	8,973.5	68.3	63.9	40.20	-7,904.6	-1,822.5	1,081.3	948.4	132.91	8.136	
18,050.0	9,771.7	16,911.9	8,973.6	68.6	64.2	40.20	-7,954.6	-1,822.9	1,081.3	947.7	133.65	8.091	
18,100.0	9,771.7	16,961.9	8,973.6	69.0	64.6	40.21	-8,004.6	-1,823.4	1,081.3	947.0	134.38	8.047	
18,145.0	9,771.7	17,006.9	8,973.7	69.3	64.9	40.21	-8,049.5	-1,823.8	1,081.4	946.3	135.04	8.007	
18,200.0	9,771.8	17,061.9	8,973.7	69.7	65.3	40.21	-8,104.5	-1,824.3	1,081.4	945.5	135.85	7.960	
18,240.0	9,771.8	17,101.9	8,973.8	69.9	65.6	40.21	-8,144.5	-1,824.6	1,081.4	944.9	136.44	7.925	
18,300.0	9,771.8	17,161.9	8,973.8	70.4	66.0	40.21	-8,204.5	-1,825.1	1,081.4	944.0	137.33	7.874	
18,335.0	9,771.9	17,196.9	8,973.9	70.6	66.3	40.21	-8,239.5	-1,825.4	1,081.4	943.5	137.84	7.845	
18,400.0	9,771.9	17,261.9	8,973.9	71.1	66.7	40.22	-8,304.5	-1,826.0	1,081.4	942.6	138.80	7.791	
18,430.0	9,771.9	17,291.9	8,974.0	71.3	67.0	40.22	-8,334.5	-1,826.3	1,081.4	942.1	139.25	7.766	
18,500.0	9,772.0	17,361.9	8,974.0	71.8	67.5	40.22	-8,404.5	-1,826.9	1,081.4	941.1	140.28	7.709	
18,525.0	9,772.0	17,386.9	8,974.1	71.9	67.6	40.22	-8,429.5	-1,827.1	1,081.4	940.8	140.65	7.689	
18,600.0	9,772.1	17,461.9	8,974.1	72.5	68.2	40.22	-8,504.5	-1,827.8	1,081.4	939.7	141.76	7.629	
18,620.0	9,772.1	17,481.9	8,974.2	72.6	68.3	40.22	-8,524.5	-1,828.0	1,081.4	939.4	142.06	7.613	
18,700.0	9,772.1	17,561.9	8,974.2	73.2	68.9	40.23	-8,604.5	-1,828.7	1,081.4	938.2	143.24	7.550	
18,715.0	9,772.1	17,576.9	8,974.3	73.3	69.0	40.23	-8,619.5	-1,828.8	1,081.4	938.0	143.46	7.538	
18,800.0	9,772.2	17,661.9	8,974.3	73.9	69.6	40.23	-8,704.5	-1,829.6	1,081.5	936.7	144.72	7.473	
18,810.0	9,772.2	17,671.9	8,974.3	74.0	69.7	40.23	-8,714.5	-1,829.7	1,081.5	936.6	144.87	7.465	
18,900.0	9,772.3	17,761.9	8,974.4	74.6	70.4	40.23	-8,804.5	-1,830.5	1,081.5	935.3	146.21	7.397	
18,905.0	9,772.3	17,766.9	8,974.4	74.6	70.4	40.23	-8,809.5	-1,830.5	1,081.5	935.2	146.28	7.393	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS						Rule Assigned:				Offset Well Error:	3.0 usft	
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance				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)	Separation Factor	Warning	
19,000.0	9,772.3	17,861.9	8,974.5	75.3	71.1	40.24	-8,904.5	-1,831.3	1,081.5	933.8	147.69	7.323		
19,095.0	9,772.4	17,956.9	8,974.6	76.0	71.8	40.24	-8,999.5	-1,832.2	1,081.5	932.4	149.10	7.253		
19,100.0	9,772.4	17,961.9	8,974.6	76.0	71.8	40.24	-9,004.5	-1,832.2	1,081.5	932.3	149.18	7.250		
19,190.0	9,772.5	18,051.9	8,974.7	76.7	72.5	40.24	-9,094.5	-1,833.0	1,081.5	931.0	150.52	7.185		
19,200.0	9,772.5	18,061.9	8,974.7	76.7	72.6	40.24	-9,104.5	-1,833.1	1,081.5	930.9	150.67	7.178		
19,285.0	9,772.6	18,146.9	8,974.8	77.3	73.2	40.24	-9,189.5	-1,833.9	1,081.5	929.6	151.93	7.119		
19,300.0	9,772.6	18,161.9	8,974.8	77.4	73.3	40.25	-9,204.5	-1,834.0	1,081.5	929.4	152.15	7.108		
19,380.0	9,772.6	18,241.9	8,974.9	78.0	73.9	40.25	-9,284.5	-1,834.7	1,081.6	928.2	153.35	7.053		
19,400.0	9,772.6	18,261.9	8,974.9	78.2	74.0	40.25	-9,304.5	-1,834.9	1,081.6	927.9	153.64	7.039		
19,475.0	9,772.7	18,336.9	8,975.0	78.7	74.6	40.25	-9,379.5	-1,835.5	1,081.6	926.8	154.76	6.989		
19,500.0	9,772.7	18,361.9	8,975.0	78.9	74.8	40.25	-9,404.5	-1,835.8	1,081.6	926.4	155.13	6.972		
19,570.0	9,772.8	18,431.9	8,975.1	79.4	75.3	40.25	-9,474.5	-1,836.4	1,081.6	925.4	156.18	6.925		
19,600.0	9,772.8	18,461.9	8,975.1	79.6	75.5	40.26	-9,504.5	-1,836.6	1,081.6	925.0	156.63	6.906		
19,665.0	9,772.8	18,526.9	8,975.2	80.0	76.0	40.26	-9,569.5	-1,837.2	1,081.6	924.0	157.60	6.863		
19,700.0	9,772.9	18,561.9	8,975.2	80.3	76.2	40.26	-9,604.5	-1,837.5	1,081.6	923.5	158.12	6.840		
19,760.0	9,772.9	18,621.9	8,975.3	80.7	76.7	40.26	-9,664.5	-1,838.1	1,081.6	922.6	159.02	6.802		
19,800.0	9,772.9	18,661.9	8,975.3	81.0	77.0	40.26	-9,704.5	-1,838.4	1,081.6	922.0	159.61	6.776		
19,855.0	9,773.0	18,716.9	8,975.4	81.4	77.4	40.26	-9,759.5	-1,838.9	1,081.6	921.2	160.44	6.742		
19,900.0	9,773.0	18,761.9	8,975.4	81.7	77.7	40.27	-9,804.5	-1,839.3	1,081.6	920.5	161.11	6.714		
19,950.0	9,773.0	18,811.9	8,975.5	82.1	78.1	40.27	-9,854.5	-1,839.7	1,081.6	919.8	161.86	6.683		
20,000.0	9,773.1	18,861.9	8,975.5	82.5	78.4	40.27	-9,904.5	-1,840.2	1,081.7	919.0	162.61	6.652		
20,045.0	9,773.1	18,906.9	8,975.6	82.8	78.8	40.27	-9,949.5	-1,840.6	1,081.7	918.4	163.28	6.625		
20,100.0	9,773.1	18,961.9	8,975.6	83.2	79.2	40.27	-10,004.5	-1,841.1	1,081.7	917.6	164.10	6.591		
20,140.0	9,773.2	19,001.9	8,975.7	83.5	79.5	40.27	-10,044.5	-1,841.4	1,081.7	917.0	164.70	6.567		
20,200.0	9,773.2	19,061.9	8,975.7	83.9	79.9	40.28	-10,104.5	-1,842.0	1,081.7	916.1	165.60	6.532		
20,235.0	9,773.2	19,096.9	8,975.8	84.1	80.2	40.28	-10,139.5	-1,842.3	1,081.7	915.6	166.13	6.511		
20,300.0	9,773.3	19,161.9	8,975.8	84.6	80.6	40.28	-10,204.5	-1,842.8	1,081.7	914.6	167.10	6.473		
20,330.0	9,773.3	19,191.9	8,975.9	84.8	80.9	40.28	-10,234.5	-1,843.1	1,081.7	914.2	167.55	6.456		
20,400.0	9,773.4	19,261.9	8,975.9	85.3	81.4	40.28	-10,304.5	-1,843.7	1,081.7	913.1	168.60	6.416		
20,425.0	9,773.4	19,286.9	8,976.0	85.5	81.6	40.28	-10,329.5	-1,844.0	1,081.7	912.7	168.98	6.402		
20,500.0	9,773.4	19,361.9	8,976.0	86.1	82.1	40.29	-10,404.5	-1,844.6	1,081.7	911.6	170.10	6.359		
20,520.0	9,773.4	19,381.9	8,976.1	86.2	82.3	40.29	-10,424.5	-1,844.8	1,081.7	911.3	170.40	6.348		
20,600.0	9,773.5	19,461.9	8,976.1	86.8	82.9	40.29	-10,504.5	-1,845.5	1,081.7	910.1	171.60	6.304		
20,615.0	9,773.5	19,476.9	8,976.2	86.9	83.0	40.29	-10,519.4	-1,845.6	1,081.8	909.9	171.83	6.296		
20,700.0	9,773.6	19,561.9	8,976.3	87.5	83.6	40.29	-10,604.4	-1,846.4	1,081.8	908.7	173.11	6.249		
20,710.0	9,773.6	19,571.9	8,976.3	87.6	83.7	40.29	-10,614.4	-1,846.5	1,081.8	908.5	173.26	6.244		
20,800.0	9,773.6	19,661.9	8,976.4	88.2	84.3	40.30	-10,704.4	-1,847.3	1,081.8	907.2	174.61	6.195		
20,805.0	9,773.7	19,666.9	8,976.4	88.3	84.4	40.30	-10,709.4	-1,847.3	1,081.8	907.1	174.69	6.193		
20,900.0	9,773.7	19,761.9	8,976.5	89.0	85.1	40.30	-10,804.4	-1,848.2	1,081.8	905.7	176.11	6.143		
20,995.0	9,773.8	19,856.9	8,976.5	89.6	85.8	40.30	-10,899.4	-1,849.0	1,081.8	904.3	177.54	6.093		
21,000.0	9,773.8	19,861.9	8,976.6	89.7	85.8	40.30	-10,904.4	-1,849.0	1,081.8	904.2	177.62	6.091		
21,090.0	9,773.9	19,951.9	8,976.6	90.3	86.5	40.30	-10,994.4	-1,849.8	1,081.8	902.9	178.97	6.045		
21,100.0	9,773.9	19,961.9	8,976.7	90.4	86.6	40.31	-11,004.4	-1,849.9	1,081.8	902.7	179.13	6.040		
21,185.0	9,773.9	20,046.9	8,976.7	91.0	87.2	40.31	-11,089.4	-1,850.7	1,081.8	901.4	180.41	5.997		
21,200.0	9,773.9	20,061.9	8,976.8	91.1	87.3	40.31	-11,104.4	-1,850.8	1,081.8	901.2	180.63	5.989		
21,280.0	9,774.0	20,141.9	8,976.8	91.7	87.9	40.31	-11,184.4	-1,851.5	1,081.9	900.0	181.84	5.950		
21,300.0	9,774.0	20,161.9	8,976.9	91.9	88.0	40.31	-11,204.4	-1,851.7	1,081.9	899.7	182.14	5.940		
21,375.0	9,774.1	20,236.9	8,976.9	92.4	88.6	40.31	-11,279.4	-1,852.4	1,081.9	898.6	183.27	5.903		
21,400.0	9,774.1	20,261.9	8,977.0	92.6	88.8	40.32	-11,304.4	-1,852.6	1,081.9	898.2	183.65	5.891		
21,470.0	9,774.1	20,331.9	8,977.0	93.1	89.3	40.32	-11,374.4	-1,853.2	1,081.9	897.2	184.70	5.857		
21,500.0	9,774.2	20,361.9	8,977.1	93.3	89.5	40.32	-11,404.4	-1,853.5	1,081.9	896.7	185.16	5.843		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1													Offset Site Error: 0.0 usft	
Survey Program: Reference		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS						Rule Assigned:				Offset Well Error: 3.0 usft		
Offset		Semi Major Axis		Offset Wellbore Centre		Distance						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)	Separation Factor		
21,565.0	9,774.2	20,426.9	8,977.1	93.8	90.0	40.32	-11,469.4	-1,854.1	1,081.9	895.8	186.14	5.812		
21,600.0	9,774.2	20,461.9	8,977.2	94.1	90.3	40.32	-11,504.4	-1,854.4	1,081.9	895.2	186.67	5.796		
21,660.0	9,774.3	20,521.9	8,977.2	94.5	90.7	40.32	-11,564.4	-1,854.9	1,081.9	894.3	187.57	5.768		
21,700.0	9,774.3	20,561.9	8,977.3	94.8	91.0	40.33	-11,604.4	-1,855.2	1,081.9	893.8	188.18	5.750		
21,755.0	9,774.3	20,616.9	8,977.3	95.2	91.4	40.33	-11,659.4	-1,855.7	1,081.9	892.9	189.01	5.724		
21,800.0	9,774.4	20,661.9	8,977.4	95.5	91.8	40.33	-11,704.4	-1,856.1	1,081.9	892.3	189.69	5.704		
21,850.0	9,774.4	20,711.9	8,977.4	95.9	92.1	40.33	-11,754.4	-1,856.6	1,082.0	891.5	190.44	5.681		
21,900.0	9,774.4	20,761.9	8,977.5	96.2	92.5	40.33	-11,804.4	-1,857.0	1,082.0	890.8	191.20	5.659		
21,945.0	9,774.5	20,806.9	8,977.5	96.6	92.8	40.33	-11,849.4	-1,857.4	1,082.0	890.1	191.88	5.639		
22,000.0	9,774.5	20,861.9	8,977.6	97.0	93.2	40.34	-11,904.4	-1,857.9	1,082.0	889.3	192.71	5.615		
22,040.0	9,774.5	20,901.9	8,977.6	97.3	93.5	40.34	-11,944.4	-1,858.3	1,082.0	888.7	193.31	5.597		
22,100.0	9,774.6	20,961.9	8,977.7	97.7	94.0	40.34	-12,004.4	-1,858.8	1,082.0	887.8	194.22	5.571		
22,135.0	9,774.6	20,996.9	8,977.7	98.0	94.2	40.34	-12,039.4	-1,859.1	1,082.0	887.2	194.75	5.556		
22,200.0	9,774.7	21,061.9	8,977.8	98.4	94.7	40.34	-12,104.4	-1,859.7	1,082.0	886.3	195.74	5.528		
22,230.0	9,774.7	21,091.9	8,977.8	98.7	95.0	40.34	-12,134.4	-1,859.9	1,082.0	885.8	196.19	5.515		
22,300.0	9,774.7	21,161.9	8,977.9	99.2	95.5	40.35	-12,204.4	-1,860.6	1,082.0	884.8	197.25	5.486		
22,325.0	9,774.8	21,186.9	8,977.9	99.4	95.7	40.35	-12,229.4	-1,860.8	1,082.0	884.4	197.63	5.475		
22,400.0	9,774.8	21,261.9	8,978.0	99.9	96.2	40.35	-12,304.4	-1,861.4	1,082.0	883.3	198.76	5.444		
22,420.0	9,774.8	21,281.9	8,978.0	100.1	96.4	40.35	-12,324.4	-1,861.6	1,082.0	883.0	199.07	5.436		
22,500.0	9,774.9	21,361.9	8,978.1	100.6	97.0	40.35	-12,404.4	-1,862.3	1,082.1	881.8	200.28	5.403		
22,515.0	9,774.9	21,376.9	8,978.1	100.8	97.1	40.35	-12,419.4	-1,862.5	1,082.1	881.6	200.51	5.397		
22,600.0	9,775.0	21,461.9	8,978.2	101.4	97.7	40.36	-12,504.4	-1,863.2	1,082.1	880.3	201.79	5.362		
22,610.0	9,775.0	21,471.9	8,978.2	101.5	97.8	40.36	-12,514.4	-1,863.3	1,082.1	880.1	201.95	5.358		
22,700.0	9,775.0	21,561.9	8,978.3	102.1	98.5	40.36	-12,604.4	-1,864.1	1,082.1	878.8	203.31	5.322		
22,705.0	9,775.0	21,566.9	8,978.3	102.2	98.5	40.36	-12,609.4	-1,864.1	1,082.1	878.7	203.39	5.320		
22,800.0	9,775.1	21,661.9	8,978.4	102.9	99.2	40.36	-12,704.4	-1,865.0	1,082.1	877.3	204.83	5.283		
22,895.0	9,775.2	21,756.9	8,978.5	103.6	99.9	40.37	-12,799.4	-1,865.8	1,082.1	875.9	206.27	5.246		
22,900.0	9,775.2	21,761.9	8,978.5	103.6	100.0	40.37	-12,804.4	-1,865.9	1,082.1	875.8	206.34	5.244		
22,990.0	9,775.2	21,851.9	8,978.6	104.3	100.6	40.37	-12,894.4	-1,866.7	1,082.1	874.4	207.71	5.210		
23,000.0	9,775.2	21,861.9	8,978.6	104.3	100.7	40.37	-12,904.4	-1,866.8	1,082.1	874.3	207.86	5.206		
23,085.0	9,775.3	21,946.9	8,978.7	105.0	101.3	40.37	-12,989.4	-1,867.5	1,082.2	873.0	209.15	5.174		
23,100.0	9,775.3	21,961.9	8,978.7	105.1	101.5	40.37	-13,004.4	-1,867.6	1,082.2	872.8	209.38	5.168		
23,180.0	9,775.4	22,041.9	8,978.7	105.7	102.1	40.37	-13,084.3	-1,868.4	1,082.2	871.6	210.59	5.139		
23,200.0	9,775.4	22,061.9	8,978.8	105.8	102.2	40.38	-13,104.3	-1,868.5	1,082.2	871.3	210.90	5.131		
23,275.0	9,775.4	22,136.9	8,978.8	106.4	102.8	40.38	-13,179.3	-1,869.2	1,082.2	870.1	212.04	5.104		
23,300.0	9,775.5	22,161.9	8,978.9	106.5	102.9	40.38	-13,204.3	-1,869.4	1,082.2	869.8	212.42	5.095		
23,370.0	9,775.5	22,231.9	8,978.9	107.1	103.5	40.38	-13,274.3	-1,870.0	1,082.2	868.7	213.48	5.069		
23,400.0	9,775.5	22,261.9	8,979.0	107.3	103.7	40.38	-13,304.3	-1,870.3	1,082.2	868.3	213.93	5.059		
23,465.0	9,775.6	22,326.9	8,979.0	107.8	104.2	40.38	-13,369.3	-1,870.9	1,082.2	867.3	214.92	5.035		
23,500.0	9,775.6	22,361.9	8,979.1	108.0	104.4	40.39	-13,404.3	-1,871.2	1,082.2	866.8	215.45	5.023		
23,560.0	9,775.6	22,421.9	8,979.1	108.5	104.9	40.39	-13,464.3	-1,871.7	1,082.2	865.9	216.37	5.002		
23,600.0	9,775.7	22,461.9	8,979.2	108.8	105.2	40.39	-13,504.3	-1,872.1	1,082.2	865.3	216.97	4.988		
23,655.0	9,775.7	22,516.9	8,979.2	109.2	105.6	40.39	-13,559.3	-1,872.6	1,082.2	864.4	217.81	4.969		
23,700.0	9,775.7	22,561.9	8,979.3	109.5	105.9	40.39	-13,604.3	-1,873.0	1,082.3	863.8	218.49	4.953		
23,750.0	9,775.8	22,611.9	8,979.3	109.9	106.3	40.39	-13,654.3	-1,873.4	1,082.3	863.0	219.25	4.936		
23,800.0	9,775.8	22,661.9	8,979.4	110.2	106.7	40.40	-13,704.3	-1,873.8	1,082.3	862.3	220.02	4.919		
23,845.0	9,775.9	22,706.9	8,979.4	110.6	107.0	40.40	-13,749.3	-1,874.2	1,082.3	861.6	220.70	4.904		
23,900.0	9,775.9	22,761.9	8,979.5	111.0	107.4	40.40	-13,804.3	-1,874.7	1,082.3	860.8	221.54	4.885		
23,940.0	9,775.9	22,801.9	8,979.5	111.3	107.7	40.40	-13,844.3	-1,875.1	1,082.3	860.1	222.15	4.872		
24,000.0	9,776.0	22,861.9	8,979.6	111.7	108.2	40.40	-13,904.3	-1,875.6	1,082.3	859.2	223.06	4.852		
24,035.0	9,776.0	22,896.9	8,979.6	112.0	108.5	40.40	-13,939.3	-1,875.9	1,082.3	858.7	223.59	4.841		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design:	FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1										Offset Site Error:	0.0 usft
Survey Program:	0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS										Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
24,100.0	9,776.0	22,961.9	8,979.7	112.5	108.9	40.41	-14,004.3	-1,876.5	1,082.3	857.7	224.58	4.819
24,130.0	9,776.1	22,991.9	8,979.7	112.7	109.2	40.41	-14,034.3	-1,876.8	1,082.3	857.3	225.04	4.810
24,200.0	9,776.1	23,061.9	8,979.8	113.2	109.7	40.41	-14,104.3	-1,877.4	1,082.3	856.2	226.10	4.787
24,225.0	9,776.1	23,086.9	8,979.8	113.4	109.9	40.41	-14,129.3	-1,877.6	1,082.3	855.9	226.48	4.779
24,300.0	9,776.2	23,161.9	8,979.9	113.9	110.4	40.41	-14,204.3	-1,878.3	1,082.4	854.7	227.63	4.755
24,320.0	9,776.2	23,181.9	8,979.9	114.1	110.6	40.41	-14,224.3	-1,878.4	1,082.4	854.4	227.93	4.749
24,400.0	9,776.3	23,261.9	8,980.0	114.7	111.2	40.42	-14,304.3	-1,879.2	1,082.4	853.2	229.15	4.723
24,415.0	9,776.3	23,276.9	8,980.0	114.8	111.3	40.42	-14,319.3	-1,879.3	1,082.4	853.0	229.38	4.719
24,500.0	9,776.3	23,361.9	8,980.1	115.4	111.9	40.42	-14,404.3	-1,880.0	1,082.4	851.7	230.67	4.692
24,510.0	9,776.3	23,371.9	8,980.1	115.5	112.0	40.42	-14,414.3	-1,880.1	1,082.4	851.6	230.82	4.689
24,600.0	9,776.4	23,461.9	8,980.2	116.2	112.7	40.42	-14,504.3	-1,880.9	1,082.4	850.2	232.20	4.662
24,605.0	9,776.4	23,466.9	8,980.2	116.2	112.7	40.42	-14,509.3	-1,881.0	1,082.4	850.1	232.27	4.660
24,700.0	9,776.5	23,561.9	8,980.3	116.9	113.4	40.43	-14,604.3	-1,881.8	1,082.4	848.7	233.72	4.631
24,795.0	9,776.5	23,656.9	8,980.4	117.6	114.2	40.43	-14,699.3	-1,882.7	1,082.4	847.3	235.17	4.603
24,800.0	9,776.5	23,661.9	8,980.4	117.6	114.2	40.43	-14,704.3	-1,882.7	1,082.4	847.2	235.24	4.601
24,890.0	9,776.6	23,751.9	8,980.5	118.3	114.9	40.43	-14,794.3	-1,883.5	1,082.4	845.8	236.62	4.575
24,900.0	9,776.6	23,761.9	8,980.5	118.4	114.9	40.43	-14,804.3	-1,883.6	1,082.5	845.7	236.77	4.572
24,985.0	9,776.7	23,846.9	8,980.6	119.0	115.6	40.43	-14,889.3	-1,884.3	1,082.5	844.4	238.07	4.547
25,000.0	9,776.7	23,861.9	8,980.6	119.1	115.7	40.44	-14,904.3	-1,884.5	1,082.5	844.2	238.29	4.543
25,080.0	9,776.7	23,941.9	8,980.7	119.7	116.3	40.44	-14,984.3	-1,885.2	1,082.5	843.0	239.52	4.519
25,100.0	9,776.8	23,961.9	8,980.7	119.9	116.4	40.44	-15,004.3	-1,885.4	1,082.5	842.7	239.82	4.514
25,175.0	9,776.8	24,036.9	8,980.8	120.4	117.0	40.44	-15,079.3	-1,886.0	1,082.5	841.5	240.96	4.492
25,200.0	9,776.8	24,061.9	8,980.8	120.6	117.2	40.44	-15,104.3	-1,886.2	1,082.5	841.2	241.35	4.485
25,270.0	9,776.9	24,131.9	8,980.9	121.1	117.7	40.44	-15,174.3	-1,886.9	1,082.5	840.1	242.41	4.466
25,300.6	9,776.9	24,162.5	8,980.9	121.4	118.0	40.45	-15,204.9	-1,887.1	1,082.5	839.6	242.88	4.457
25,365.0	9,777.0	24,226.9	8,980.9	121.8	118.4	40.45	-15,269.3	-1,887.7	1,082.5	838.7	243.86	4.439
25,400.0	9,777.0	24,261.9	8,981.0	122.1	118.7	40.45	-15,304.3	-1,888.0	1,082.5	838.1	244.40	4.429
25,400.1	9,777.0	24,262.0	8,981.0	122.1	118.7	40.45	-15,304.4	-1,888.0	1,082.5	838.1	244.40	4.429
25,430.7	9,777.0	24,278.2	8,981.0	122.3	118.8	40.45	-15,320.5	-1,888.2	1,082.6	837.9	244.77	4.423 SF

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #707H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8417-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Offset	Highside	Offset Wellbore Centre	Distance	Minimum	Separation	Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor	
6,080.0	5,957.8	6,019.7	5,986.3	23.7	17.6	-34.48	135.6	-2,236.1	1,315.2	1,279.6	35.57	36.980	
6,100.0	5,977.2	6,039.1	6,005.7	23.8	17.6	-34.59	135.6	-2,236.1	1,311.2	1,275.5	35.66	36.770	
6,175.0	6,050.0	6,111.9	6,078.5	24.1	17.7	-35.04	135.6	-2,236.1	1,296.2	1,260.1	36.01	35.993	
6,200.0	6,074.3	6,136.1	6,102.8	24.2	17.7	-35.20	135.6	-2,236.1	1,291.2	1,255.0	36.13	35.739	
6,218.3	6,092.0	6,153.9	6,120.5	24.3	17.7	-35.31	135.6	-2,236.1	1,287.5	1,251.3	36.21	35.559	
6,270.0	6,142.3	6,204.2	6,170.8	24.6	17.7	-35.50	135.6	-2,236.1	1,277.6	1,241.1	36.44	35.057	
6,300.0	6,171.6	6,233.4	6,200.1	24.7	17.8	-35.61	135.6	-2,236.1	1,272.2	1,235.6	36.58	34.779	
6,365.0	6,235.2	6,297.1	6,263.7	25.0	17.8	-35.83	135.6	-2,236.1	1,261.4	1,224.5	36.87	34.209	
6,400.0	6,269.6	6,331.5	6,298.1	25.2	17.8	-35.94	135.6	-2,236.1	1,256.1	1,219.1	37.03	33.920	
6,460.0	6,328.7	6,390.6	6,357.2	25.5	17.8	-36.11	135.6	-2,236.1	1,247.8	1,210.5	37.29	33.463	
6,500.0	6,368.3	6,430.1	6,396.8	25.7	17.9	-36.22	135.6	-2,236.1	1,242.9	1,205.4	37.46	33.178	
6,555.0	6,422.7	6,484.6	6,451.2	25.9	17.9	-36.35	135.6	-2,236.1	1,236.8	1,199.2	37.69	32.820	
6,600.0	6,467.4	6,529.3	6,495.9	26.1	17.9	-36.44	135.6	-2,236.1	1,232.5	1,194.7	37.87	32.547	
6,650.0	6,517.2	6,579.1	6,545.7	26.3	17.9	-36.54	135.6	-2,236.1	1,228.4	1,190.4	38.06	32.276	
6,700.0	6,567.0	6,628.9	6,595.5	26.5	18.0	-36.61	135.6	-2,236.1	1,225.0	1,186.8	38.25	32.026	
6,745.0	6,611.9	6,673.8	6,640.4	26.7	18.0	-36.67	135.6	-2,236.1	1,222.5	1,184.1	38.41	31.831	
6,800.0	6,666.8	6,728.7	6,695.3	26.9	18.0	-36.72	135.6	-2,236.1	1,220.3	1,181.7	38.60	31.614	
6,840.0	6,706.8	6,768.7	6,735.3	27.0	18.1	-36.75	135.6	-2,236.1	1,219.2	1,180.5	38.72	31.491	
6,900.0	6,766.8	6,828.7	6,795.3	27.2	18.1	-36.76	135.6	-2,236.1	1,218.4	1,179.5	38.89	31.328	
6,918.2	6,785.0	6,846.9	6,813.5	27.2	18.1	-104.30	135.6	-2,236.1	1,218.3	1,179.4	38.92	31.305	
6,935.0	6,801.8	6,863.7	6,830.3	27.2	18.1	-104.30	135.6	-2,236.1	1,218.3	1,179.4	38.93	31.293	
7,000.0	6,866.8	6,928.7	6,895.3	27.2	18.1	-104.30	135.6	-2,236.1	1,218.3	1,179.3	39.00	31.243	
7,030.0	6,896.8	6,958.7	6,925.3	27.2	18.2	-104.30	135.6	-2,236.1	1,218.3	1,179.3	39.03	31.219	
7,100.0	6,966.8	7,028.7	6,995.3	27.2	18.2	-104.30	135.6	-2,236.1	1,218.3	1,179.2	39.10	31.161	
7,125.0	6,991.8	7,053.7	7,020.3	27.2	18.2	-104.30	135.6	-2,236.1	1,218.3	1,179.2	39.12	31.141	
7,200.0	7,066.8	7,128.7	7,095.3	27.3	18.3	-104.30	135.6	-2,236.1	1,218.3	1,179.1	39.20	31.080	
7,220.0	7,086.8	7,148.7	7,115.3	27.3	18.3	-104.30	135.6	-2,236.1	1,218.3	1,179.1	39.22	31.063	
7,300.0	7,166.8	7,228.7	7,195.3	27.3	18.3	-104.30	135.6	-2,236.1	1,218.3	1,179.0	39.30	30.998	
7,315.0	7,181.8	7,243.7	7,210.3	27.3	18.3	-104.30	135.6	-2,236.1	1,218.3	1,179.0	39.32	30.986	
7,400.0	7,266.8	7,328.7	7,295.3	27.3	18.4	-104.30	135.6	-2,236.1	1,218.3	1,178.9	39.41	30.917	
7,410.0	7,276.8	7,338.7	7,305.3	27.3	18.4	-104.30	135.6	-2,236.1	1,218.3	1,178.9	39.42	30.909	
7,500.0	7,366.8	7,428.7	7,395.3	27.4	18.4	-104.30	135.6	-2,236.1	1,218.3	1,178.8	39.51	30.835	
7,505.0	7,371.8	7,433.7	7,400.3	27.4	18.4	-104.30	135.6	-2,236.1	1,218.3	1,178.8	39.52	30.831	
7,600.0	7,466.8	7,528.7	7,495.3	27.4	18.5	-104.30	135.6	-2,236.1	1,218.3	1,178.7	39.62	30.754	
7,695.0	7,561.8	7,623.7	7,590.3	27.4	18.6	-104.30	135.6	-2,236.1	1,218.3	1,178.6	39.71	30.677	
7,700.0	7,566.8	7,628.7	7,595.3	27.4	18.6	-104.30	135.6	-2,236.1	1,218.3	1,178.6	39.72	30.673	
7,790.0	7,656.8	7,718.7	7,685.3	27.5	18.6	-104.30	135.6	-2,236.1	1,218.3	1,178.5	39.81	30.600	
7,800.0	7,666.8	7,728.7	7,695.3	27.5	18.6	-104.30	135.6	-2,236.1	1,218.3	1,178.5	39.83	30.592	
7,885.0	7,751.8	7,813.7	7,780.3	27.5	18.7	-104.30	135.6	-2,236.1	1,218.3	1,178.4	39.91	30.524	
7,900.0	7,766.8	7,828.7	7,795.3	27.5	18.7	-104.30	135.6	-2,236.1	1,218.3	1,178.4	39.93	30.512	
7,980.0	7,846.8	7,908.7	7,875.3	27.5	18.7	-104.30	135.6	-2,236.1	1,218.3	1,178.3	40.01	30.447	
8,000.0	7,866.8	7,928.7	7,895.3	27.5	18.7	-104.30	135.6	-2,236.1	1,218.3	1,178.3	40.04	30.431	
8,075.0	7,941.8	8,003.7	7,970.3	27.6	18.8	-104.30	135.6	-2,236.1	1,218.3	1,178.2	40.12	30.371	
8,100.0	7,966.8	8,028.7	7,995.3	27.6	18.8	-104.30	135.6	-2,236.1	1,218.3	1,178.2	40.14	30.351	
8,170.0	8,036.8	8,098.7	8,065.3	27.6	18.8	-104.30	135.6	-2,236.1	1,218.3	1,178.1	40.22	30.295	
8,200.0	8,066.8	8,128.7	8,095.3	27.6	18.8	-104.30	135.6	-2,236.1	1,218.3	1,178.1	40.25	30.270	
8,265.0	8,131.8	8,193.7	8,160.3	27.6	18.9	-104.30	135.6	-2,236.1	1,218.3	1,178.0	40.32	30.218	
8,300.0	8,166.8	8,228.7	8,195.3	27.6	18.9	-104.30	135.6	-2,236.1	1,218.3	1,178.0	40.36	30.190	
8,360.0	8,226.8	8,288.7	8,255.3	27.6	18.9	-104.30	135.6	-2,236.1	1,218.3	1,177.9	40.42	30.142	
8,400.0	8,266.8	8,328.7	8,295.3	27.7	19.0	-104.30	135.6	-2,236.1	1,218.3	1,177.9	40.46	30.110	
8,455.0	8,321.8	8,383.7	8,350.3	27.7	19.0	-104.30	135.6	-2,236.1	1,218.3	1,177.8	40.52	30.067	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design:	FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #707H - OWB - PWP1										Offset Site Error:	0.0 usft
Survey Program:	0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8417-r.5 MWD+IFR1+MS										Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Warning				
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)	(usft)	
8,457.5	8,324.3	8,386.2	8,352.8	27.7	19.0	-104.30	135.6	-2,236.1	1,218.3	1,177.8	40.52	30.065 CC
8,500.0	8,366.8	8,424.7	8,391.3	27.7	19.0	-104.30	135.6	-2,236.1	1,218.4	1,177.8	40.56	30.036 ES
8,550.0	8,416.8	8,450.0	8,416.6	27.7	19.0	-104.34	134.7	-2,236.1	1,218.9	1,178.3	40.64	29.996 SF
8,600.0	8,466.8	8,489.1	8,455.5	27.7	19.1	-104.50	131.1	-2,236.1	1,220.1	1,179.5	40.68	29.997
8,645.0	8,511.8	8,517.6	8,483.7	27.7	19.1	-104.70	126.9	-2,236.2	1,221.9	1,181.2	40.71	30.012
8,700.0	8,566.8	8,550.0	8,515.4	27.8	19.1	-104.99	120.3	-2,236.2	1,224.9	1,184.2	40.76	30.055
8,740.0	8,606.8	8,576.0	8,540.6	27.8	19.2	-105.29	113.8	-2,236.3	1,227.8	1,187.0	40.78	30.110
8,800.0	8,666.8	8,611.3	8,574.3	27.8	19.2	-105.77	103.1	-2,236.4	1,233.0	1,192.2	40.80	30.222
8,835.0	8,701.8	8,631.2	8,592.9	27.8	19.2	-106.08	96.2	-2,236.4	1,236.7	1,195.9	40.81	30.306
8,900.0	8,766.8	8,666.8	8,625.6	27.8	19.2	-106.70	82.2	-2,236.6	1,244.7	1,203.9	40.81	30.500
8,930.0	8,796.8	8,682.6	8,639.8	27.8	19.3	-107.00	75.3	-2,236.6	1,249.0	1,208.2	40.81	30.607
9,000.0	8,866.8	8,717.8	8,670.8	27.9	19.3	-107.74	58.7	-2,236.8	1,260.4	1,219.6	40.79	30.900
9,025.0	8,891.8	8,729.7	8,681.1	27.9	19.3	-108.00	52.6	-2,236.8	1,265.0	1,224.2	40.78	31.021
9,100.0	8,966.8	8,763.9	8,709.8	27.9	19.4	-108.81	34.0	-2,237.0	1,280.4	1,239.7	40.74	31.431
9,120.0	8,986.8	8,772.6	8,716.9	27.9	19.4	-109.03	29.0	-2,237.0	1,285.0	1,244.2	40.72	31.554
9,200.0	9,066.8	8,800.0	8,738.8	27.9	19.4	-109.74	12.6	-2,237.2	1,305.1	1,264.4	40.66	32.097
9,215.0	9,081.8	8,800.0	8,738.8	28.0	19.4	-109.74	12.6	-2,237.2	1,309.2	1,268.6	40.65	32.208

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9316-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.6	0.6	3.0	3.0	88.85	1.2	59.9	59.9				
95.0	95.0	95.6	95.6	3.0	3.0	88.85	1.2	59.9	59.9	53.9	6.04	9.925	
100.0	100.0	100.6	100.6	3.0	3.0	88.85	1.2	59.9	59.9	53.9	6.04	9.917	
190.0	190.0	190.6	190.6	3.1	3.1	88.85	1.2	59.9	59.9	53.7	6.25	9.581	
200.0	200.0	200.6	200.6	3.1	3.1	88.85	1.2	59.9	59.9	53.6	6.29	9.530	
285.0	285.0	285.6	285.6	3.3	3.3	88.85	1.2	59.9	59.9	53.4	6.48	9.240	
300.0	300.0	300.6	300.6	3.3	3.3	88.85	1.2	59.9	59.9	53.4	6.52	9.185	
380.0	380.0	380.6	380.6	3.4	3.4	88.85	1.2	59.9	59.9	53.2	6.70	8.939	
400.0	400.0	400.6	400.6	3.4	3.4	88.85	1.2	59.9	59.9	53.2	6.75	8.875	
475.0	475.0	475.6	475.6	3.5	3.5	88.85	1.2	59.9	59.9	53.0	6.91	8.665	
500.0	500.0	500.6	500.6	3.5	3.5	88.85	1.2	59.9	59.9	52.9	6.97	8.594	
570.0	570.0	570.6	570.6	3.6	3.6	88.85	1.2	59.9	59.9	52.8	7.12	8.415	
600.0	600.0	600.6	600.6	3.6	3.6	88.85	1.2	59.9	59.9	52.7	7.19	8.338	
665.0	665.0	665.6	665.6	3.7	3.7	88.85	1.2	59.9	59.9	52.6	7.32	8.186	
700.0	700.0	700.6	700.6	3.8	3.8	88.85	1.2	59.9	59.9	52.5	7.39	8.104	
760.0	760.0	760.6	760.6	3.8	3.8	88.85	1.2	59.9	59.9	52.4	7.51	7.975	
800.0	800.0	800.6	800.6	3.9	3.9	88.85	1.2	59.9	59.9	52.3	7.59	7.889	
855.0	855.0	855.6	855.6	4.0	4.0	88.85	1.2	59.9	59.9	52.2	7.70	7.779	
900.0	900.0	900.6	900.6	4.0	4.0	88.85	1.2	59.9	59.9	52.1	7.79	7.690	
950.0	950.0	950.6	950.6	4.1	4.1	88.85	1.2	59.9	59.9	52.0	7.89	7.597	
1,000.0	1,000.0	1,000.6	1,000.6	4.1	4.1	88.85	1.2	59.9	59.9	51.9	7.98	7.505	
1,045.0	1,045.0	1,045.6	1,045.6	4.2	4.2	88.85	1.2	59.9	59.9	51.8	8.07	7.427	
1,100.0	1,100.0	1,100.6	1,100.6	4.2	4.2	88.85	1.2	59.9	59.9	51.7	8.17	7.333	
1,140.0	1,140.0	1,140.6	1,140.6	4.3	4.3	88.85	1.2	59.9	59.9	51.7	8.24	7.268	
1,200.0	1,200.0	1,200.6	1,200.6	4.4	4.4	88.85	1.2	59.9	59.9	51.6	8.35	7.172	
1,235.0	1,235.0	1,235.6	1,235.6	4.4	4.4	88.85	1.2	59.9	59.9	51.5	8.42	7.119	
1,300.0	1,300.0	1,300.6	1,300.6	4.5	4.5	88.85	1.2	59.9	59.9	51.4	8.53	7.022	
1,330.0	1,330.0	1,330.6	1,330.6	4.5	4.5	88.85	1.2	59.9	59.9	51.3	8.58	6.979	
1,400.0	1,400.0	1,400.6	1,400.6	4.6	4.6	88.85	1.2	59.9	59.9	51.2	8.71	6.880	
1,425.0	1,425.0	1,425.6	1,425.6	4.6	4.6	88.85	1.2	59.9	59.9	51.2	8.75	6.847	
1,437.3	1,437.3	1,437.9	1,437.9	4.6	4.6	88.85	1.2	59.9	59.9	51.1	8.77	6.830 CC	
1,500.0	1,500.0	1,500.0	1,500.0	4.7	4.7	88.85	1.2	59.9	59.9	51.0	8.88	6.748 ES	
1,520.0	1,520.0	1,520.3	1,520.3	4.7	4.7	156.37	1.2	60.0	60.0	51.1	8.94	6.712 SF	
1,600.0	1,600.0	1,598.9	1,598.9	4.8	4.9	156.03	2.3	61.2	62.9	53.7	9.20	6.832	
1,615.0	1,615.0	1,613.6	1,613.6	4.9	4.9	155.92	2.6	61.6	63.8	54.6	9.28	6.882	
1,700.0	1,699.8	1,696.7	1,696.5	5.0	5.1	155.15	5.5	65.1	71.7	62.0	9.69	7.403	
1,710.0	1,709.8	1,706.4	1,706.2	5.1	5.1	155.04	5.9	65.7	72.9	63.2	9.74	7.490	
1,800.0	1,799.5	1,793.4	1,792.9	5.3	5.3	154.07	10.7	71.5	86.5	76.3	10.19	8.486	
1,805.0	1,804.4	1,798.2	1,797.7	5.3	5.4	154.02	11.0	71.9	87.3	77.1	10.21	8.552	
1,900.0	1,898.7	1,888.7	1,887.5	5.6	5.6	153.03	17.8	80.3	107.0	96.3	10.70	9.996	
1,995.0	1,992.5	1,977.3	1,975.1	5.9	5.9	152.16	26.3	90.6	131.7	120.5	11.20	11.757	
2,000.0	1,997.5	1,981.9	1,979.7	5.9	5.9	152.11	26.8	91.2	133.1	121.9	11.23	11.858	
2,090.0	2,085.8	2,063.9	2,060.3	6.2	6.2	151.40	36.2	102.8	161.4	149.7	11.71	13.782	
2,100.0	2,095.6	2,072.9	2,069.1	6.2	6.2	151.33	37.3	104.1	164.8	153.0	11.76	14.009	
2,185.0	2,178.5	2,148.0	2,142.5	6.6	6.5	150.74	47.3	116.5	195.9	183.7	12.23	16.022	
2,199.9	2,193.0	2,161.0	2,155.2	6.6	6.5	150.64	49.2	118.7	201.7	189.4	12.31	16.392	
2,280.0	2,270.7	2,231.9	2,224.0	6.9	6.8	150.38	59.9	131.8	234.0	221.3	12.71	18.406	
2,300.0	2,290.1	2,250.2	2,241.7	6.9	6.8	150.31	62.7	135.2	242.2	229.3	12.82	18.890	
2,375.0	2,362.9	2,318.7	2,308.2	7.2	7.0	150.10	73.1	148.1	272.6	259.4	13.22	20.618	
2,400.0	2,387.1	2,341.6	2,330.4	7.3	7.1	150.04	76.6	152.4	282.8	269.4	13.36	21.166	
2,470.0	2,455.0	2,405.5	2,392.5	7.5	7.3	149.89	86.4	164.4	311.2	297.5	13.76	22.626	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1													Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9316-r.5 MWD+IFR1+MS		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Offset Well Error: 3.0 usft		
Reference	Vertical	Measured	Vertical	Reference	Offset	Highside			Distance				Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
2,500.0	2,484.1	2,432.9	2,419.1	7.6	7.4	149.83	90.6	169.5	323.4	309.5	13.93	23.220		
2,565.0	2,547.2	2,492.3	2,476.7	7.8	7.6	149.72	99.7	180.6	349.8	335.5	14.31	24.444		
2,600.0	2,581.2	2,524.3	2,507.7	8.0	7.7	149.67	104.6	186.6	364.0	349.5	14.52	25.072		
2,660.0	2,639.4	2,579.1	2,560.9	8.2	7.9	149.59	113.0	196.9	388.4	373.5	14.89	26.092		
2,700.0	2,678.2	2,615.7	2,596.4	8.3	8.1	149.54	118.6	203.8	404.7	389.5	15.13	26.741		
2,755.0	2,731.6	2,665.9	2,645.1	8.5	8.3	149.48	126.2	213.2	427.0	411.5	15.48	27.585		
2,800.0	2,775.2	2,707.0	2,685.0	8.7	8.4	149.44	132.5	220.9	445.3	429.5	15.76	28.246		
2,850.0	2,823.8	2,752.7	2,729.4	8.9	8.6	149.39	139.5	229.5	465.6	449.5	16.09	28.940		
2,900.0	2,872.3	2,798.4	2,773.7	9.1	8.8	149.35	146.5	238.0	485.9	469.5	16.41	29.605		
2,945.0	2,915.9	2,839.5	2,813.6	9.3	8.9	149.32	152.8	245.7	504.2	487.5	16.71	30.171		
3,000.0	2,969.3	2,889.8	2,862.3	9.5	9.1	149.28	160.5	255.2	526.6	509.5	17.08	30.834		
3,040.0	3,008.1	2,926.3	2,897.8	9.7	9.3	149.25	166.1	262.0	542.8	525.5	17.35	31.291		
3,100.0	3,066.3	2,981.1	2,951.0	9.9	9.5	149.21	174.5	272.3	567.2	549.4	17.75	31.947		
3,135.0	3,100.3	3,013.1	2,982.0	10.1	9.6	149.19	179.3	278.3	581.4	563.4	17.99	32.312		
3,200.0	3,163.4	3,072.5	3,039.7	10.4	9.9	149.16	188.4	289.4	607.8	589.4	18.44	32.958		
3,230.0	3,192.5	3,099.9	3,066.3	10.5	10.0	149.14	192.6	294.5	620.0	601.4	18.65	33.243		
3,300.0	3,260.4	3,163.9	3,128.3	10.8	10.2	149.11	202.4	306.5	648.5	629.3	19.14	33.878		
3,325.0	3,284.6	3,186.7	3,150.5	10.9	10.3	149.10	205.9	310.8	658.6	639.3	19.32	34.094		
3,400.0	3,357.4	3,255.3	3,217.0	11.2	10.6	149.07	216.4	323.7	689.1	669.2	19.85	34.716		
3,420.0	3,376.8	3,273.5	3,234.7	11.3	10.7	149.06	219.2	327.1	697.2	677.2	19.99	34.875		
3,500.0	3,454.4	3,346.6	3,305.6	11.6	11.0	149.03	230.3	340.8	729.7	709.2	20.57	35.483		
3,515.0	3,469.0	3,360.3	3,318.9	11.7	11.1	149.03	232.4	343.4	735.8	715.1	20.67	35.592		
3,600.0	3,551.5	3,438.0	3,394.3	12.1	11.4	149.00	244.3	357.9	770.4	749.1	21.29	36.185		
3,610.0	3,561.2	3,447.1	3,403.1	12.1	11.4	148.99	245.7	359.6	774.4	753.1	21.36	36.251		
3,700.0	3,648.5	3,529.4	3,482.9	12.5	11.8	148.97	258.3	375.1	811.0	789.0	22.02	36.829		
3,705.0	3,653.4	3,533.9	3,487.4	12.6	11.8	148.97	259.0	375.9	813.0	791.0	22.06	36.860		
3,800.0	3,745.5	3,620.7	3,571.6	13.0	12.2	148.94	272.3	392.2	851.6	828.9	22.76	37.422		
3,895.0	3,837.7	3,707.5	3,655.8	13.4	12.6	148.92	285.5	408.5	890.2	866.8	23.46	37.942		
3,900.0	3,842.6	3,712.1	3,660.3	13.4	12.6	148.92	286.2	409.3	892.3	868.8	23.50	37.968		
3,990.0	3,929.9	3,794.3	3,740.0	13.8	13.0	148.89	298.8	424.7	928.8	904.7	24.17	38.425		
4,000.0	3,939.6	3,803.5	3,748.9	13.9	13.0	148.89	300.2	426.4	932.9	908.7	24.25	38.473		
4,085.0	4,022.1	3,881.2	3,824.3	14.3	13.4	148.87	312.1	441.0	967.4	942.6	24.89	38.873		
4,100.0	4,036.6	3,894.9	3,837.6	14.3	13.4	148.87	314.2	443.6	973.5	948.5	25.00	38.941		
4,180.0	4,114.3	3,968.0	3,908.5	14.7	13.8	148.86	325.4	457.3	1,006.1	980.4	25.61	39.290		
4,200.0	4,133.7	3,986.2	3,926.2	14.8	13.8	148.85	328.2	460.7	1,014.2	988.4	25.76	39.374		
4,275.0	4,206.4	4,054.8	3,992.7	15.1	14.2	148.84	338.6	473.5	1,044.7	1,018.3	26.33	39.679		
4,300.0	4,230.7	4,077.6	4,014.9	15.3	14.3	148.84	342.1	477.8	1,054.8	1,028.3	26.52	39.777		
4,370.0	4,298.6	4,141.6	4,076.9	15.6	14.6	148.82	351.9	489.8	1,083.3	1,056.2	27.05	40.042		
4,400.0	4,327.7	4,169.0	4,103.5	15.7	14.7	148.82	356.1	495.0	1,095.5	1,068.2	27.28	40.152		
4,465.0	4,390.8	4,228.4	4,161.2	16.0	15.0	148.81	365.2	506.1	1,121.9	1,094.1	27.78	40.382		
4,500.0	4,424.7	4,260.3	4,192.2	16.2	15.1	148.80	370.1	512.1	1,136.1	1,108.0	28.05	40.502		
4,560.0	4,483.0	4,315.2	4,245.4	16.5	15.4	148.79	378.5	522.4	1,160.5	1,132.0	28.51	40.701		
4,600.0	4,521.8	4,351.7	4,280.8	16.6	15.5	148.79	384.1	529.2	1,176.7	1,147.9	28.82	40.829		
4,655.0	4,575.1	4,402.0	4,329.6	16.9	15.8	148.78	391.7	538.6	1,199.1	1,169.8	29.25	41.000		
4,700.0	4,618.8	4,443.1	4,369.5	17.1	15.9	148.78	398.0	546.3	1,217.4	1,187.8	29.59	41.135		
4,750.0	4,667.3	4,488.8	4,413.8	17.4	16.2	148.77	405.0	554.9	1,237.7	1,207.7	29.98	41.281		
4,800.0	4,715.8	4,534.5	4,458.2	17.6	16.4	148.76	412.0	563.5	1,258.0	1,227.6	30.36	41.438		
4,845.0	4,759.5	4,598.8	4,520.8	17.8	16.6	148.77	421.4	575.0	1,275.9	1,245.0	30.89	41.306		
4,900.0	4,812.9	4,681.1	4,601.2	18.1	17.0	148.84	432.2	588.2	1,296.7	1,265.2	31.57	41.069		
4,940.0	4,851.7	4,741.8	4,661.0	18.2	17.3	148.92	439.2	596.8	1,311.1	1,279.0	32.06	40.891		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #802H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9257-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	88.85	0.6	29.9	29.9				
95.0	95.0	95.0	95.0	3.0	3.0	88.85	0.6	29.9	29.9	23.9	6.04	4.955	
100.0	100.0	100.0	100.0	3.0	3.0	88.85	0.6	29.9	29.9	23.9	6.04	4.951	
190.0	190.0	190.0	190.0	3.1	3.1	88.85	0.6	29.9	29.9	23.7	6.25	4.783	
200.0	200.0	200.0	200.0	3.1	3.1	88.85	0.6	29.9	29.9	23.6	6.29	4.757	
285.0	285.0	285.0	285.0	3.3	3.3	88.85	0.6	29.9	29.9	23.4	6.48	4.613	
300.0	300.0	300.0	300.0	3.3	3.3	88.85	0.6	29.9	29.9	23.4	6.52	4.585	
380.0	380.0	380.0	380.0	3.4	3.4	88.85	0.6	29.9	29.9	23.2	6.70	4.462	
400.0	400.0	400.0	400.0	3.4	3.4	88.85	0.6	29.9	29.9	23.2	6.75	4.430	
475.0	475.0	475.0	475.0	3.5	3.5	88.85	0.6	29.9	29.9	23.0	6.91	4.326	
500.0	500.0	500.0	500.0	3.5	3.5	88.85	0.6	29.9	29.9	22.9	6.97	4.290	
570.0	570.0	570.0	570.0	3.6	3.6	88.85	0.6	29.9	29.9	22.8	7.12	4.201	
600.0	600.0	600.0	600.0	3.6	3.6	88.85	0.6	29.9	29.9	22.7	7.18	4.163	
665.0	665.0	665.0	665.0	3.7	3.7	88.85	0.6	29.9	29.9	22.6	7.32	4.087	
700.0	700.0	700.0	700.0	3.8	3.8	88.85	0.6	29.9	29.9	22.5	7.39	4.046	
760.0	760.0	760.0	760.0	3.8	3.8	88.85	0.6	29.9	29.9	22.4	7.51	3.981	
800.0	800.0	800.0	800.0	3.9	3.9	88.85	0.6	29.9	29.9	22.3	7.59	3.938	
855.0	855.0	855.0	855.0	4.0	4.0	88.85	0.6	29.9	29.9	22.2	7.70	3.883	
900.0	900.0	900.0	900.0	4.0	4.0	88.85	0.6	29.9	29.9	22.1	7.79	3.839	
950.0	950.0	950.0	950.0	4.1	4.1	88.85	0.6	29.9	29.9	22.0	7.89	3.792	
1,000.0	1,000.0	1,000.0	1,000.0	4.1	4.1	88.85	0.6	29.9	29.9	21.9	7.98	3.747	
1,045.0	1,045.0	1,045.0	1,045.0	4.2	4.2	88.85	0.6	29.9	29.9	21.8	8.07	3.708	
1,100.0	1,100.0	1,100.0	1,100.0	4.2	4.2	88.85	0.6	29.9	29.9	21.7	8.17	3.661	
1,140.0	1,140.0	1,140.0	1,140.0	4.3	4.3	88.85	0.6	29.9	29.9	21.7	8.24	3.628	
1,200.0	1,200.0	1,200.0	1,200.0	4.4	4.4	88.85	0.6	29.9	29.9	21.6	8.35	3.580	
1,235.0	1,235.0	1,235.0	1,235.0	4.4	4.4	88.85	0.6	29.9	29.9	21.5	8.42	3.554	
1,300.0	1,300.0	1,300.0	1,300.0	4.5	4.5	88.85	0.6	29.9	29.9	21.4	8.53	3.505	
1,330.0	1,330.0	1,330.0	1,330.0	4.5	4.5	88.85	0.6	29.9	29.9	21.3	8.58	3.484	
1,400.0	1,400.0	1,400.0	1,400.0	4.6	4.6	88.85	0.6	29.9	29.9	21.2	8.71	3.435	
1,425.0	1,425.0	1,425.0	1,425.0	4.6	4.6	88.85	0.6	29.9	29.9	21.2	8.75	3.418	
1,500.0	1,500.0	1,500.0	1,500.0	4.7	4.7	88.85	0.6	29.9	29.9	21.0	8.88	3.368 CC	
1,520.0	1,520.0	1,520.1	1,520.1	4.7	4.8	156.31	0.7	29.9	29.9	21.0	8.93	3.351 ES, SF	
1,600.0	1,600.0	1,600.4	1,600.4	4.8	4.9	154.68	2.2	29.2	30.8	21.7	9.15	3.368	
1,615.0	1,615.0	1,615.5	1,615.4	4.9	4.9	154.15	2.7	28.9	31.1	21.9	9.22	3.378	
1,700.0	1,699.8	1,700.7	1,700.5	5.0	5.2	150.14	7.0	27.0	33.7	24.2	9.57	3.525	
1,710.0	1,709.8	1,710.7	1,710.5	5.1	5.2	149.58	7.7	26.7	34.1	24.5	9.61	3.552	
1,800.0	1,799.5	1,800.8	1,800.2	5.3	5.4	144.14	15.0	23.4	38.9	29.0	9.97	3.905	
1,805.0	1,804.4	1,805.8	1,805.2	5.3	5.5	143.83	15.4	23.1	39.3	29.3	9.99	3.930	
1,900.0	1,898.7	1,900.6	1,899.3	5.6	5.7	138.07	26.1	18.3	46.7	36.4	10.35	4.512	
1,995.0	1,992.5	1,995.1	1,992.6	5.9	6.0	132.98	39.4	12.2	56.6	45.9	10.71	5.287	
2,000.0	1,997.5	2,000.0	1,997.5	5.9	6.1	132.74	40.2	11.9	57.2	46.5	10.72	5.333	
2,090.0	2,085.8	2,089.1	2,085.1	6.2	6.2	129.00	55.3	5.0	68.9	57.9	10.99	6.272	
2,100.0	2,095.6	2,099.0	2,094.8	6.2	6.3	128.73	57.0	4.2	70.4	59.3	11.02	6.385	
2,185.0	2,178.5	2,183.0	2,177.2	6.6	6.5	127.53	71.6	-2.4	83.4	72.0	11.36	7.344	
2,199.9	2,193.0	2,197.7	2,191.7	6.6	6.5	127.49	74.2	-3.6	85.9	74.4	11.42	7.519	
2,280.0	2,270.7	2,276.7	2,269.2	6.9	6.8	127.58	87.9	-9.8	99.1	87.4	11.73	8.450	
2,300.0	2,290.1	2,296.4	2,288.5	6.9	6.8	127.59	91.3	-11.4	102.4	90.6	11.81	8.674	
2,375.0	2,362.9	2,370.4	2,361.1	7.2	7.1	127.65	104.2	-17.2	114.9	102.7	12.11	9.484	
2,400.0	2,387.1	2,395.1	2,385.3	7.3	7.1	127.67	108.4	-19.1	119.0	106.8	12.21	9.745	
2,470.0	2,455.0	2,464.1	2,453.1	7.5	7.4	127.71	120.4	-24.6	130.6	118.1	12.50	10.447	
2,500.0	2,484.1	2,493.7	2,482.1	7.6	7.5	127.72	125.6	-26.9	135.6	122.9	12.62	10.737	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #802H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9257-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Rule Assigned:												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
2,565.0	2,547.2	2,557.8	2,545.1	7.8	7.7	127.75		136.7	-32.0	146.3	133.4	12.90	11.342
2,600.0	2,581.2	2,592.3	2,579.0	8.0	7.8	127.76		142.7	-34.7	152.1	139.1	13.05	11.656
2,660.0	2,639.4	2,651.5	2,637.0	8.2	8.0	127.78		153.0	-39.4	162.1	148.7	13.31	12.174
2,700.0	2,678.2	2,690.9	2,675.8	8.3	8.2	127.80		159.8	-42.5	168.7	155.2	13.49	12.508
2,755.0	2,731.6	2,745.1	2,729.0	8.5	8.4	127.81		169.2	-46.8	177.8	164.1	13.73	12.949
2,800.0	2,775.2	2,789.5	2,772.6	8.7	8.5	127.83		176.9	-50.3	185.2	171.3	13.93	13.298
2,850.0	2,823.8	2,838.8	2,821.0	8.9	8.7	127.84		185.5	-54.2	193.5	179.4	14.16	13.671
2,900.0	2,872.3	2,888.1	2,869.4	9.1	8.9	127.85		194.1	-58.1	201.8	187.4	14.38	14.032
2,945.0	2,915.9	2,932.5	2,912.9	9.3	9.1	127.86		201.8	-61.6	209.3	194.7	14.59	14.344
3,000.0	2,969.3	2,986.8	2,966.2	9.5	9.3	127.87		211.2	-65.9	218.4	203.5	14.84	14.713
3,040.0	3,008.1	3,026.2	3,004.9	9.7	9.5	127.88		218.1	-69.0	225.0	210.0	15.03	14.972
3,100.0	3,066.3	3,085.4	3,063.0	9.9	9.7	127.89		228.3	-73.7	234.9	219.6	15.31	15.348
3,135.0	3,100.3	3,119.9	3,096.9	10.1	9.8	127.89		234.3	-76.4	240.7	225.2	15.47	15.559
3,200.0	3,163.4	3,184.0	3,159.8	10.4	10.1	127.90		245.5	-81.5	251.5	235.7	15.78	15.939
3,230.0	3,192.5	3,213.6	3,188.8	10.5	10.2	127.91		250.6	-83.8	256.5	240.5	15.92	16.108
3,300.0	3,260.4	3,282.6	3,256.6	10.8	10.5	127.92		262.6	-89.3	268.0	251.8	16.26	16.490
3,325.0	3,284.6	3,307.3	3,280.8	10.9	10.6	127.92		266.9	-91.2	272.2	255.8	16.38	16.622
3,400.0	3,357.4	3,381.2	3,353.4	11.2	10.9	127.93		279.7	-97.0	284.6	267.9	16.74	17.005
3,420.0	3,376.8	3,401.0	3,372.8	11.3	11.0	127.93		283.1	-98.6	287.9	271.1	16.83	17.104
3,500.0	3,454.4	3,479.9	3,450.2	11.6	11.3	127.94		296.8	-104.8	301.2	283.9	17.22	17.487
3,515.0	3,469.0	3,494.7	3,464.7	11.7	11.4	127.94		299.4	-106.0	303.7	286.4	17.30	17.556
3,600.0	3,551.5	3,578.5	3,547.0	12.1	11.7	127.95		314.0	-112.6	317.7	300.0	17.71	17.938
3,610.0	3,561.2	3,588.3	3,556.7	12.1	11.8	127.95		315.7	-113.4	319.4	301.6	17.76	17.982
3,700.0	3,648.5	3,677.1	3,643.8	12.5	12.1	127.95		331.1	-120.4	334.3	316.1	18.21	18.362
3,705.0	3,653.4	3,682.0	3,648.7	12.6	12.1	127.96		332.0	-120.8	335.1	316.9	18.23	18.382
3,800.0	3,745.5	3,775.7	3,740.6	13.0	12.5	127.96		348.2	-128.2	350.9	332.2	18.70	18.759
3,895.0	3,837.7	3,869.4	3,832.6	13.4	12.9	127.97		364.5	-135.6	366.6	347.4	19.18	19.115
3,900.0	3,842.6	3,874.3	3,837.4	13.4	13.0	127.97		365.4	-136.0	367.4	348.2	19.20	19.134
3,990.0	3,929.9	3,963.1	3,924.6	13.8	13.4	127.98		380.8	-143.0	382.3	362.7	19.66	19.452
4,000.0	3,939.6	3,973.0	3,934.3	13.9	13.4	127.98		382.5	-143.8	384.0	364.3	19.71	19.486
4,085.0	4,022.1	4,056.8	4,016.5	14.3	13.8	127.98		397.0	-150.4	398.1	377.9	20.13	19.772
4,100.0	4,036.6	4,071.6	4,031.1	14.3	13.8	127.98		399.6	-151.6	400.5	380.3	20.21	19.821
4,180.0	4,114.3	4,151.0	4,109.1	14.7	14.2	128.06		413.0	-157.6	413.8	393.1	20.61	20.071
4,200.0	4,133.7	4,171.0	4,128.8	14.8	14.3	128.12		416.0	-159.0	417.0	396.3	20.72	20.127
4,275.0	4,206.4	4,245.6	4,202.6	15.1	14.6	128.51		426.4	-163.8	429.3	408.1	21.12	20.324
4,300.0	4,230.7	4,270.5	4,227.2	15.3	14.7	128.69		429.5	-165.2	433.3	412.1	21.26	20.384
4,370.0	4,298.6	4,340.0	4,296.2	15.6	15.0	129.33		437.0	-168.6	444.6	423.0	21.65	20.539
4,400.0	4,327.7	4,369.7	4,325.8	15.7	15.1	129.66		439.8	-169.8	449.5	427.7	21.82	20.600
4,465.0	4,390.8	4,433.9	4,389.8	16.0	15.4	130.49		444.8	-172.1	460.0	437.8	22.20	20.721
4,500.0	4,424.7	4,468.4	4,424.1	16.2	15.5	130.98		446.9	-173.1	465.7	443.3	22.41	20.781
4,560.0	4,483.0	4,527.2	4,482.9	16.5	15.7	131.93		449.7	-174.4	475.5	452.7	22.78	20.875
4,600.0	4,521.8	4,566.2	4,521.9	16.6	15.9	132.61		451.0	-174.9	482.1	459.1	23.03	20.934
4,655.0	4,575.1	4,619.6	4,575.3	16.9	16.0	133.62		451.9	-175.3	491.3	467.9	23.38	21.014
4,700.0	4,618.8	4,663.2	4,618.8	17.1	16.0	134.49		452.0	-175.4	499.0	475.3	23.66	21.088
4,750.0	4,667.3	4,711.7	4,667.3	17.4	16.1	135.45		452.0	-175.4	507.7	483.7	23.99	21.163
4,800.0	4,715.8	4,760.2	4,715.8	17.6	16.1	136.38		452.0	-175.4	516.5	492.2	24.34	21.224
4,845.0	4,759.5	4,803.9	4,759.5	17.8	16.1	137.19		452.0	-175.4	524.5	499.9	24.65	21.279
4,900.0	4,812.9	4,857.2	4,812.9	18.1	16.1	138.14		452.0	-175.4	534.5	509.5	25.04	21.348
4,940.0	4,851.7	4,896.0	4,851.7	18.2	16.2	138.82		452.0	-175.4	541.8	516.5	25.32	21.399
5,000.0	4,909.9	4,954.3	4,909.9	18.5	16.2	139.80		452.0	-175.4	553.0	527.2	25.75	21.476
5,035.0	4,943.9	4,988.2	4,943.9	18.7	16.2	140.35		452.0	-175.4	559.6	533.6	26.00	21.523

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #802H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9257-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Offset	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation	Warning	
Measured	Vertical	Measured	Vertical	Reference	Offset	Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor
Depth	Depth	Depth	Depth	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	
5,100.0	5,006.9	5,051.3	5,006.9	19.0	16.3	141.34	452.0	-175.4	571.9	545.4	26.46	21.611
5,130.0	5,036.0	5,080.4	5,036.0	19.1	16.3	141.79	452.0	-175.4	577.6	551.0	26.68	21.652
5,200.0	5,104.0	5,148.3	5,104.0	19.5	16.3	142.79	452.0	-175.4	591.2	564.0	27.18	21.750
5,225.0	5,128.2	5,172.6	5,128.2	19.6	16.3	143.14	452.0	-175.4	596.1	568.7	27.36	21.786
5,300.0	5,201.0	5,245.3	5,201.0	19.9	16.4	144.15	452.0	-175.4	610.8	582.9	27.90	21.895
5,320.0	5,220.4	5,264.8	5,220.4	20.0	16.4	144.41	452.0	-175.4	614.8	586.8	28.04	21.925
5,400.0	5,298.0	5,342.4	5,298.0	20.4	16.4	145.42	452.0	-175.4	630.8	602.2	28.61	22.046
5,415.0	5,312.6	5,356.9	5,312.6	20.5	16.4	145.61	452.0	-175.4	633.8	605.1	28.72	22.069
5,500.0	5,395.1	5,439.4	5,395.1	20.9	16.5	146.62	452.0	-175.4	651.0	621.7	29.32	22.201
5,510.0	5,404.8	5,449.1	5,404.8	20.9	16.5	146.74	452.0	-175.4	653.1	623.7	29.40	22.217
5,600.0	5,492.1	5,536.4	5,492.1	21.4	16.5	147.75	452.0	-175.4	671.6	641.5	30.03	22.361
5,605.0	5,496.9	5,541.3	5,496.9	21.4	16.5	147.80	452.0	-175.4	672.6	642.5	30.07	22.369
5,700.0	5,589.1	5,633.5	5,589.1	21.8	16.6	148.81	452.0	-175.4	692.3	661.6	30.74	22.524
5,795.0	5,681.3	5,725.6	5,681.3	22.3	16.6	149.76	452.0	-175.4	712.2	680.8	31.40	22.682
5,800.0	5,686.1	5,730.5	5,686.1	22.3	16.6	149.81	452.0	-175.4	713.3	681.8	31.43	22.691
5,890.0	5,773.5	5,817.8	5,773.5	22.8	16.7	150.66	452.0	-175.4	732.3	700.2	32.06	22.843
5,900.0	5,783.2	5,827.5	5,783.2	22.8	16.7	150.75	452.0	-175.4	734.4	702.3	32.13	22.860
5,985.0	5,865.6	5,910.0	5,865.6	23.2	16.8	151.51	452.0	-175.4	752.6	719.8	32.71	23.005
6,000.0	5,880.2	5,924.6	5,880.2	23.3	16.8	151.64	452.0	-175.4	755.8	722.9	32.82	23.031
6,080.0	5,957.8	6,002.2	5,957.8	23.7	16.8	152.32	452.0	-175.4	773.0	739.6	33.36	23.169
6,100.0	5,977.2	6,021.6	5,977.2	23.8	16.8	152.48	452.0	-175.4	777.3	743.8	33.50	23.203
6,175.0	6,050.0	6,094.4	6,050.0	24.1	16.9	153.08	452.0	-175.4	793.5	759.5	34.01	23.334
6,200.0	6,074.3	6,118.6	6,074.3	24.2	16.9	153.28	452.0	-175.4	798.9	764.8	34.18	23.377
6,218.3	6,092.0	6,136.4	6,092.0	24.3	16.9	153.42	452.0	-175.4	802.9	768.6	34.29	23.412
6,270.0	6,142.3	6,186.6	6,142.3	24.6	16.9	153.89	452.0	-175.4	813.8	779.1	34.64	23.494
6,300.0	6,171.6	6,215.9	6,171.6	24.7	16.9	154.15	452.0	-175.4	819.7	784.9	34.83	23.532
6,365.0	6,235.2	6,279.6	6,235.2	25.0	17.0	154.65	452.0	-175.4	831.7	796.4	35.25	23.593
6,400.0	6,269.6	6,314.0	6,269.6	25.2	17.0	154.89	452.0	-175.4	837.6	802.1	35.47	23.612
6,460.0	6,328.7	6,373.1	6,328.7	25.5	17.0	155.26	452.0	-175.4	846.8	811.0	35.83	23.632
6,500.0	6,368.3	6,412.6	6,368.3	25.7	17.1	155.48	452.0	-175.4	852.4	816.3	36.07	23.631
6,555.0	6,422.7	6,467.1	6,422.7	25.9	17.1	155.74	452.0	-175.4	859.2	822.8	36.38	23.619
6,600.0	6,467.4	6,511.8	6,467.4	26.1	17.1	155.93	452.0	-175.4	864.1	827.4	36.62	23.593
6,650.0	6,517.2	6,561.5	6,517.2	26.3	17.1	156.10	452.0	-175.4	868.7	831.9	36.88	23.556
6,700.0	6,567.0	6,611.3	6,567.0	26.5	17.2	156.24	452.0	-175.4	872.6	835.5	37.13	23.501
6,745.0	6,611.9	6,656.2	6,611.9	26.7	17.2	156.35	452.0	-175.4	875.4	838.1	37.34	23.447
6,800.0	6,666.8	6,711.2	6,666.8	26.9	17.2	156.44	452.0	-175.4	878.0	840.4	37.58	23.363
6,840.0	6,706.8	6,751.1	6,706.8	27.0	17.3	156.49	452.0	-175.4	879.3	841.5	37.73	23.305
6,900.0	6,766.8	6,811.1	6,766.8	27.2	17.3	156.52	452.0	-175.4	880.2	842.2	37.94	23.199
6,918.2	6,785.0	6,829.4	6,785.0	27.2	17.3	88.99	452.0	-175.4	880.2	842.3	37.97	23.181
6,935.0	6,801.8	6,846.1	6,801.8	27.2	17.3	88.99	452.0	-175.4	880.2	842.2	37.99	23.170
7,000.0	6,866.8	6,911.1	6,866.8	27.2	17.4	88.99	452.0	-175.4	880.2	842.2	38.06	23.127
7,030.0	6,896.8	6,941.1	6,896.8	27.2	17.4	88.99	452.0	-175.4	880.2	842.1	38.10	23.106
7,100.0	6,966.8	7,011.1	6,966.8	27.2	17.4	88.99	452.0	-175.4	880.2	842.0	38.18	23.057
7,125.0	6,991.8	7,036.1	6,991.8	27.2	17.4	88.99	452.0	-175.4	880.2	841.9	38.21	23.040
7,200.0	7,066.8	7,111.1	7,066.8	27.3	17.5	88.99	452.0	-175.4	880.2	841.9	38.29	22.987
7,220.0	7,086.8	7,131.1	7,086.8	27.3	17.5	88.99	452.0	-175.4	880.2	841.9	38.32	22.973
7,300.0	7,166.8	7,211.1	7,166.8	27.3	17.5	88.99	452.0	-175.4	880.2	841.8	38.41	22.918
7,315.0	7,181.8	7,226.1	7,181.8	27.3	17.6	88.99	452.0	-175.4	880.2	841.8	38.43	22.908
7,400.0	7,266.8	7,311.1	7,266.8	27.3	17.6	88.99	452.0	-175.4	880.2	841.7	38.52	22.849
7,410.0	7,276.8	7,321.1	7,276.8	27.3	17.6	88.99	452.0	-175.4	880.2	841.7	38.54	22.842
7,500.0	7,366.8	7,411.1	7,366.8	27.4	17.7	88.99	452.0	-175.4	880.2	841.6	38.64	22.780

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #802H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9257-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Offset	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)		
7,505.0	7,371.8	7,416.1	7,371.8	27.4	17.7	88.99	452.0	-175.4	880.2	841.6	38.65	22.777
7,600.0	7,466.8	7,511.1	7,466.8	27.4	17.7	88.99	452.0	-175.4	880.2	841.5	38.76	22.712
7,695.0	7,561.8	7,606.1	7,561.8	27.4	17.8	88.99	452.0	-175.4	880.2	841.4	38.87	22.647
7,700.0	7,566.8	7,611.1	7,566.8	27.4	17.8	88.99	452.0	-175.4	880.2	841.4	38.87	22.644
7,790.0	7,656.8	7,701.1	7,656.8	27.5	17.8	88.99	452.0	-175.4	880.2	841.3	38.98	22.583
7,800.0	7,666.8	7,711.1	7,666.8	27.5	17.9	88.99	452.0	-175.4	880.2	841.2	38.99	22.576
7,885.0	7,751.8	7,796.1	7,751.8	27.5	17.9	88.99	452.0	-175.4	880.2	841.1	39.09	22.518
7,900.0	7,766.8	7,811.1	7,766.8	27.5	17.9	88.99	452.0	-175.4	880.2	841.1	39.11	22.508
7,980.0	7,846.8	7,891.1	7,846.8	27.5	18.0	88.99	452.0	-175.4	880.2	841.0	39.20	22.454
8,000.0	7,866.8	7,911.1	7,866.8	27.5	18.0	88.99	452.0	-175.4	880.2	841.0	39.22	22.441
8,075.0	7,941.8	7,986.1	7,941.8	27.6	18.0	88.99	452.0	-175.4	880.2	840.9	39.31	22.391
8,100.0	7,966.8	8,011.1	7,966.8	27.6	18.0	88.99	452.0	-175.4	880.2	840.9	39.34	22.374
8,170.0	8,036.8	8,081.1	8,036.8	27.6	18.1	88.99	452.0	-175.4	880.2	840.8	39.42	22.327
8,200.0	8,066.8	8,111.1	8,066.8	27.6	18.1	88.99	452.0	-175.4	880.2	840.8	39.46	22.307
8,265.0	8,131.8	8,176.1	8,131.8	27.6	18.1	88.99	452.0	-175.4	880.2	840.7	39.54	22.264
8,300.0	8,166.8	8,211.1	8,166.8	27.6	18.2	88.99	452.0	-175.4	880.2	840.7	39.58	22.241
8,360.0	8,226.8	8,271.1	8,226.8	27.6	18.2	88.99	452.0	-175.4	880.2	840.6	39.65	22.201
8,400.0	8,266.8	8,311.1	8,266.8	27.7	18.2	88.99	452.0	-175.4	880.2	840.5	39.70	22.174
8,455.0	8,321.8	8,366.1	8,321.8	27.7	18.3	88.99	452.0	-175.4	880.2	840.5	39.76	22.138
8,500.0	8,366.8	8,411.1	8,366.8	27.7	18.3	88.99	452.0	-175.4	880.2	840.4	39.81	22.109
8,550.0	8,416.8	8,461.1	8,416.8	27.7	18.3	88.99	452.0	-175.4	880.2	840.4	39.87	22.076
8,600.0	8,466.8	8,511.1	8,466.8	27.7	18.4	88.99	452.0	-175.4	880.2	840.3	39.93	22.043
8,645.0	8,511.8	8,556.1	8,511.8	27.7	18.4	88.99	452.0	-175.4	880.2	840.3	39.99	22.014
8,700.0	8,566.8	8,611.1	8,566.8	27.8	18.4	88.99	452.0	-175.4	880.2	840.2	40.05	21.978
8,740.0	8,606.8	8,651.1	8,606.8	27.8	18.4	88.99	452.0	-175.4	880.2	840.1	40.10	21.952
8,800.0	8,666.8	8,711.1	8,666.8	27.8	18.5	88.99	452.0	-175.4	880.2	840.1	40.17	21.913
8,835.0	8,701.8	8,746.1	8,701.8	27.8	18.5	88.99	452.0	-175.4	880.2	840.0	40.21	21.890
8,900.0	8,766.8	8,811.1	8,766.8	27.8	18.6	88.99	452.0	-175.4	880.2	839.9	40.29	21.848
8,930.0	8,796.8	8,841.1	8,796.8	27.8	18.6	88.99	452.0	-175.4	880.2	839.9	40.33	21.828
9,000.0	8,866.8	8,911.1	8,866.8	27.9	18.6	88.99	452.0	-175.4	880.2	839.8	40.41	21.783
9,025.0	8,891.8	8,936.1	8,891.8	27.9	18.6	88.99	452.0	-175.4	880.2	839.8	40.44	21.767
9,100.0	8,966.8	9,011.1	8,966.8	27.9	18.7	88.99	452.0	-175.4	880.2	839.7	40.53	21.719
9,120.0	8,986.8	9,031.1	8,986.8	27.9	18.7	88.99	452.0	-175.4	880.2	839.7	40.55	21.706
9,200.0	9,066.8	9,111.1	9,066.8	27.9	18.7	88.99	452.0	-175.4	880.2	839.6	40.65	21.655
9,215.0	9,081.8	9,126.1	9,081.8	28.0	18.8	88.99	452.0	-175.4	880.2	839.6	40.67	21.646
9,300.0	9,166.8	9,211.1	9,166.8	28.0	18.8	88.99	452.0	-175.4	880.2	839.5	40.76	21.593
9,310.0	9,176.8	9,221.1	9,176.8	28.0	18.8	88.99	452.0	-175.4	880.2	839.5	40.77	21.589
9,326.3	9,193.0	9,237.4	9,193.0	28.0	18.8	88.99	452.0	-175.4	880.2	839.5	40.78	21.583
9,350.0	9,216.8	9,261.3	9,216.9	28.0	18.8	-91.51	452.0	-175.4	880.2	839.5	40.79	21.579
9,400.0	9,266.8	9,313.4	9,269.0	28.0	18.9	-91.62	449.3	-175.4	880.3	839.5	40.80	21.574
9,405.0	9,271.5	9,318.7	9,274.2	28.0	18.9	-91.63	448.7	-175.4	880.3	839.5	40.80	21.574
9,450.0	9,315.8	9,365.8	9,320.8	28.0	19.0	-91.71	441.8	-175.5	880.3	839.5	40.81	21.571
9,500.0	9,364.1	9,418.2	9,371.8	28.0	19.0	-91.79	429.6	-175.6	880.4	839.6	40.82	21.568
9,550.0	9,411.1	9,470.8	9,421.5	28.0	19.1	-91.86	412.7	-175.7	880.4	839.6	40.83	21.564
9,595.0	9,452.0	9,518.2	9,464.9	28.1	19.1	-91.91	393.7	-175.9	880.4	839.6	40.84	21.559
9,600.0	9,456.5	9,523.5	9,469.6	28.1	19.2	-91.91	391.3	-175.9	880.4	839.6	40.84	21.558
9,650.0	9,499.8	9,576.2	9,515.6	28.1	19.2	-91.95	365.6	-176.1	880.4	839.6	40.85	21.551
9,690.0	9,532.8	9,618.4	9,550.6	28.1	19.3	-91.97	342.0	-176.3	880.5	839.6	40.87	21.542
9,700.0	9,540.8	9,629.0	9,559.1	28.1	19.3	-91.97	335.7	-176.4	880.5	839.6	40.88	21.540
9,750.0	9,579.2	9,681.7	9,599.6	28.1	19.4	-91.97	301.9	-176.6	880.5	839.6	40.90	21.526
9,785.0	9,604.3	9,718.7	9,626.1	28.1	19.4	-91.97	276.1	-176.9	880.5	839.5	40.93	21.513

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #802H - OWB - PWP1													Offset Site Error: 0.0 usft	
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9257-r.5 MWD+IFR1+MS						Rule Assigned:					Offset Well Error: 3.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance					
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside								Warning
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,800.0	9,614.6	9,734.5	9,636.9	28.1	19.4	-91.96	264.6	-177.0	880.5	839.5	40.94	21.507		
9,850.0	9,646.8	9,787.3	9,670.6	28.2	19.5	-91.93	224.0	-177.3	880.4	839.5	40.98	21.484		
9,880.0	9,664.5	9,818.9	9,688.9	28.2	19.5	-91.91	198.2	-177.5	880.4	839.4	41.01	21.467		
9,900.0	9,675.6	9,840.0	9,700.3	28.2	19.5	-91.89	180.5	-177.6	880.4	839.4	41.03	21.456		
9,950.0	9,700.7	9,892.6	9,725.9	28.2	19.6	-91.83	134.5	-178.0	880.4	839.3	41.10	21.421		
9,975.0	9,711.8	9,918.9	9,737.1	28.2	19.6	-91.80	110.7	-178.2	880.4	839.2	41.14	21.402		
10,000.0	9,721.9	9,945.1	9,747.1	28.3	19.6	-91.76	86.5	-178.4	880.4	839.2	41.17	21.381		
10,050.0	9,739.1	9,997.5	9,763.8	28.3	19.7	-91.67	36.9	-178.8	880.3	839.1	41.26	21.336		
10,070.0	9,744.8	10,018.4	9,769.2	28.3	19.7	-91.64	16.6	-179.0	880.3	839.0	41.30	21.315		
10,100.0	9,752.1	10,049.8	9,775.9	28.3	19.7	-91.57	-14.0	-179.3	880.3	838.9	41.36	21.284		
10,150.0	9,760.9	10,101.9	9,783.3	28.4	19.7	-91.46	-65.5	-179.7	880.2	838.8	41.47	21.228		
10,165.0	9,762.7	10,117.5	9,784.6	28.4	19.8	-91.43	-81.0	-179.8	880.2	838.7	41.50	21.209		
10,200.0	9,765.4	10,153.8	9,786.0	28.4	19.8	-91.34	-117.3	-180.1	880.2	838.6	41.58	21.167		
10,225.9	9,766.0	10,179.8	9,786.0	28.5	19.8	-91.30	-143.3	-180.3	880.2	838.5	41.64	21.139		
10,260.0	9,766.0	10,213.9	9,786.0	28.5	19.8	-91.30	-177.4	-180.6	880.2	838.4	41.72	21.095		
10,300.0	9,766.1	10,253.9	9,786.1	28.5	19.8	-91.30	-217.4	-180.9	880.2	838.3	41.84	21.039		
10,355.0	9,766.1	10,308.9	9,786.1	28.6	19.8	-91.30	-272.4	-181.4	880.2	838.2	42.01	20.953		
10,400.0	9,766.1	10,353.9	9,786.1	28.7	19.9	-91.30	-317.4	-181.8	880.2	838.0	42.16	20.877		
10,450.0	9,766.2	10,403.9	9,786.1	28.8	19.9	-91.30	-367.4	-182.2	880.2	837.8	42.34	20.787		
10,500.0	9,766.2	10,453.9	9,786.2	28.8	19.9	-91.30	-417.4	-182.6	880.2	837.6	42.54	20.691		
10,545.0	9,766.2	10,498.9	9,786.2	28.9	19.9	-91.30	-462.4	-183.0	880.2	837.4	42.73	20.600		
10,600.0	9,766.3	10,553.9	9,786.2	29.0	20.0	-91.30	-517.4	-183.4	880.2	837.2	42.97	20.482		
10,640.0	9,766.3	10,593.9	9,786.2	29.1	20.0	-91.30	-557.4	-183.8	880.2	837.0	43.16	20.392		
10,700.0	9,766.3	10,653.9	9,786.3	29.2	20.0	-91.30	-617.4	-184.3	880.2	836.7	43.46	20.252		
10,735.0	9,766.4	10,688.9	9,786.3	29.2	20.1	-91.30	-652.4	-184.5	880.2	836.5	43.64	20.168		
10,800.0	9,766.4	10,753.9	9,786.3	29.4	20.1	-91.30	-717.4	-185.1	880.2	836.2	44.00	20.006		
10,830.0	9,766.4	10,783.9	9,786.3	29.4	20.2	-91.30	-747.4	-185.3	880.2	836.0	44.17	19.928		
10,900.0	9,766.5	10,853.9	9,786.4	29.6	20.2	-91.29	-817.4	-185.9	880.2	835.6	44.58	19.744		
10,925.0	9,766.5	10,878.9	9,786.4	29.6	20.2	-91.29	-842.4	-186.1	880.2	835.4	44.73	19.676		
11,000.0	9,766.6	10,953.9	9,786.4	29.8	20.3	-91.29	-917.4	-186.7	880.2	834.9	45.21	19.469		
11,020.0	9,766.6	10,973.9	9,786.4	29.9	20.4	-91.29	-937.4	-186.9	880.2	834.8	45.34	19.412		
11,100.0	9,766.6	11,053.9	9,786.5	30.0	20.5	-91.29	-1,017.4	-187.6	880.2	834.3	45.88	19.183		
11,115.0	9,766.6	11,068.9	9,786.5	30.1	20.5	-91.29	-1,032.4	-187.7	880.2	834.2	45.99	19.140		
11,200.0	9,766.7	11,153.9	9,786.5	30.3	20.6	-91.29	-1,117.4	-188.4	880.2	833.6	46.59	18.890		
11,210.0	9,766.7	11,163.9	9,786.5	30.3	20.6	-91.29	-1,127.4	-188.5	880.2	833.5	46.67	18.860		
11,300.0	9,766.8	11,253.9	9,786.6	30.6	20.8	-91.29	-1,217.4	-189.2	880.2	832.8	47.35	18.590		
11,305.0	9,766.8	11,258.9	9,786.6	30.6	20.8	-91.29	-1,222.4	-189.3	880.2	832.8	47.39	18.574		
11,400.0	9,766.8	11,353.9	9,786.6	30.9	21.0	-91.29	-1,317.4	-190.0	880.2	832.0	48.14	18.285		
11,495.0	9,766.9	11,448.9	9,786.7	31.1	21.2	-91.29	-1,412.4	-190.8	880.1	831.2	48.92	17.993		
11,500.0	9,766.9	11,453.9	9,786.7	31.2	21.2	-91.29	-1,417.4	-190.9	880.1	831.2	48.96	17.977		
11,590.0	9,767.0	11,543.9	9,786.7	31.4	21.5	-91.29	-1,507.4	-191.6	880.1	830.4	49.73	17.699		
11,600.0	9,767.0	11,553.9	9,786.7	31.5	21.5	-91.29	-1,517.4	-191.7	880.1	830.3	49.81	17.668		
11,685.0	9,767.1	11,638.9	9,786.8	31.8	21.8	-91.28	-1,602.4	-192.4	880.1	829.6	50.57	17.405		
11,700.0	9,767.1	11,653.9	9,786.8	31.8	21.8	-91.28	-1,617.4	-192.5	880.1	829.4	50.70	17.359		
11,780.0	9,767.1	11,733.9	9,786.8	32.1	22.1	-91.28	-1,697.4	-193.2	880.1	828.7	51.43	17.112		
11,800.0	9,767.1	11,753.9	9,786.8	32.1	22.2	-91.28	-1,717.4	-193.4	880.1	828.5	51.62	17.051		
11,875.0	9,767.2	11,828.9	9,786.9	32.4	22.5	-91.28	-1,792.4	-194.0	880.1	827.8	52.33	16.821		
11,900.0	9,767.2	11,853.9	9,786.9	32.5	22.6	-91.28	-1,817.4	-194.2	880.1	827.6	52.56	16.745		
11,970.0	9,767.3	11,923.9	9,786.9	32.8	22.9	-91.28	-1,887.4	-194.8	880.1	826.9	53.24	16.531		
12,000.0	9,767.3	11,953.9	9,786.9	32.9	23.0	-91.28	-1,917.4	-195.0	880.1	826.6	53.53	16.441		
12,065.0	9,767.3	12,018.9	9,787.0	33.1	23.3	-91.28	-1,982.4	-195.6	880.1	826.0	54.18	16.245		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #802H - OWB - PWP1														Offset Site Error: 0.0 usft	
Survey Program: Reference		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9257-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)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
12,100.0	9,767.4	12,053.9	9,787.0	33.2	23.5	-91.28	-2,017.4	-195.8	880.1	825.6	54.53	16.141			
12,160.0	9,767.4	12,113.9	9,787.0	33.5	23.8	-91.28	-2,077.4	-196.3	880.1	825.0	55.14	15.963			
12,200.0	9,767.4	12,153.9	9,787.0	33.6	24.0	-91.28	-2,117.4	-196.7	880.1	824.6	55.55	15.845			
12,255.0	9,767.5	12,208.9	9,787.1	33.9	24.3	-91.28	-2,172.4	-197.1	880.1	824.0	56.12	15.684			
12,300.0	9,767.5	12,253.9	9,787.1	34.0	24.5	-91.28	-2,217.4	-197.5	880.1	823.6	56.59	15.554			
12,350.0	9,767.5	12,303.9	9,787.1	34.2	24.8	-91.28	-2,267.4	-197.9	880.1	823.0	57.12	15.410			
12,400.0	9,767.6	12,353.9	9,787.2	34.5	25.0	-91.27	-2,317.4	-198.3	880.1	822.5	57.65	15.267			
12,445.0	9,767.6	12,398.9	9,787.2	34.6	25.3	-91.27	-2,362.4	-198.7	880.1	822.0	58.13	15.140			
12,500.0	9,767.6	12,453.9	9,787.2	34.9	25.6	-91.27	-2,417.4	-199.2	880.1	821.4	58.73	14.987			
12,540.0	9,767.7	12,493.9	9,787.2	35.1	25.8	-91.27	-2,457.4	-199.5	880.1	821.0	59.17	14.876			
12,600.0	9,767.7	12,553.9	9,787.3	35.3	26.2	-91.27	-2,517.4	-200.0	880.1	820.3	59.83	14.711			
12,635.0	9,767.7	12,588.9	9,787.3	35.5	26.4	-91.27	-2,552.4	-200.3	880.1	819.9	60.22	14.616			
12,700.0	9,767.8	12,653.9	9,787.3	35.8	26.8	-91.27	-2,617.4	-200.8	880.1	819.2	60.95	14.441			
12,730.0	9,767.8	12,683.9	9,787.3	35.9	27.0	-91.27	-2,647.4	-201.1	880.1	818.9	61.28	14.362			
12,800.0	9,767.9	12,753.9	9,787.4	36.2	27.4	-91.27	-2,717.4	-201.6	880.1	818.1	62.08	14.178			
12,825.0	9,767.9	12,778.9	9,787.4	36.3	27.5	-91.27	-2,742.4	-201.8	880.1	817.8	62.37	14.113			
12,900.0	9,767.9	12,853.9	9,787.4	36.7	28.0	-91.27	-2,817.4	-202.5	880.1	816.9	63.23	13.920			
12,920.0	9,767.9	12,873.9	9,787.4	36.8	28.1	-91.27	-2,837.4	-202.6	880.1	816.7	63.46	13.869			
13,000.0	9,768.0	12,953.9	9,787.5	37.2	28.6	-91.27	-2,917.3	-203.3	880.1	815.7	64.39	13.668			
13,015.0	9,768.0	12,968.9	9,787.5	37.2	28.7	-91.27	-2,932.3	-203.4	880.1	815.6	64.57	13.631			
13,100.0	9,768.1	13,053.9	9,787.5	37.7	29.3	-91.27	-3,017.3	-204.1	880.1	814.6	65.57	13.422			
13,110.0	9,768.1	13,063.9	9,787.5	37.7	29.3	-91.27	-3,027.3	-204.2	880.1	814.4	65.69	13.398			
13,200.0	9,768.2	13,153.9	9,787.6	38.2	29.9	-91.26	-3,117.3	-204.9	880.1	813.4	66.76	13.183			
13,205.0	9,768.2	13,158.9	9,787.6	38.2	29.9	-91.26	-3,122.3	-205.0	880.1	813.3	66.82	13.171			
13,300.0	9,768.2	13,253.9	9,787.6	38.7	30.5	-91.26	-3,217.3	-205.8	880.1	812.2	67.97	12.949			
13,395.0	9,768.3	13,348.9	9,787.7	39.2	31.2	-91.26	-3,312.3	-206.6	880.1	811.0	69.13	12.732			
13,400.0	9,768.3	13,353.9	9,787.7	39.2	31.2	-91.26	-3,317.3	-206.6	880.1	810.9	69.19	12.721			
13,490.0	9,768.4	13,443.9	9,787.7	39.7	31.8	-91.26	-3,407.3	-207.3	880.1	809.8	70.29	12.521			
13,500.0	9,768.4	13,453.9	9,787.7	39.7	31.9	-91.26	-3,417.3	-207.4	880.1	809.7	70.41	12.499			
13,585.0	9,768.4	13,538.9	9,787.8	40.2	32.4	-91.26	-3,502.3	-208.1	880.1	808.7	71.47	12.315			
13,600.0	9,768.4	13,553.9	9,787.8	40.2	32.5	-91.26	-3,517.3	-208.3	880.1	808.5	71.65	12.283			
13,680.0	9,768.5	13,633.9	9,787.8	40.7	33.1	-91.26	-3,597.3	-208.9	880.1	807.5	72.65	12.114			
13,700.0	9,768.5	13,653.9	9,787.8	40.8	33.2	-91.26	-3,617.3	-209.1	880.1	807.2	72.90	12.072			
13,775.0	9,768.6	13,728.9	9,787.9	41.2	33.7	-91.26	-3,692.3	-209.7	880.1	806.3	73.85	11.918			
13,800.0	9,768.6	13,753.9	9,787.9	41.3	33.9	-91.26	-3,717.3	-209.9	880.1	806.0	74.16	11.867			
13,870.0	9,768.6	13,823.9	9,787.9	41.7	34.4	-91.26	-3,787.3	-210.5	880.1	805.1	75.05	11.727			
13,900.0	9,768.7	13,853.9	9,787.9	41.9	34.6	-91.26	-3,817.3	-210.7	880.1	804.7	75.43	11.667			
13,965.0	9,768.7	13,918.9	9,788.0	42.2	35.0	-91.25	-3,882.3	-211.3	880.1	803.9	76.27	11.540			
14,000.0	9,768.7	13,953.9	9,788.0	42.4	35.3	-91.25	-3,917.3	-211.6	880.1	803.4	76.71	11.473			
14,060.0	9,768.8	14,013.9	9,788.0	42.8	35.7	-91.25	-3,977.3	-212.1	880.1	802.6	77.48	11.359			
14,100.0	9,768.8	14,053.9	9,788.0	43.0	35.9	-91.25	-4,017.3	-212.4	880.1	802.1	78.00	11.284			
14,155.0	9,768.8	14,108.9	9,788.1	43.3	36.3	-91.25	-4,072.3	-212.8	880.1	801.4	78.71	11.182			
14,200.0	9,768.9	14,153.9	9,788.1	43.6	36.6	-91.25	-4,117.3	-213.2	880.1	800.8	79.30	11.099			
14,250.0	9,768.9	14,203.9	9,788.1	43.9	37.0	-91.25	-4,167.3	-213.6	880.1	800.2	79.95	11.009			
14,300.0	9,768.9	14,253.9	9,788.1	44.2	37.3	-91.25	-4,217.3	-214.1	880.1	799.5	80.60	10.920			
14,345.0	9,769.0	14,298.9	9,788.2	44.4	37.6	-91.25	-4,262.3	-214.4	880.1	798.9	81.19	10.841			
14,400.0	9,769.0	14,353.9	9,788.2	44.7	38.0	-91.25	-4,317.3	-214.9	880.1	798.2	81.91	10.745			
14,440.0	9,769.0	14,393.9	9,788.2	45.0	38.3	-91.25	-4,357.3	-215.2	880.1	797.7	82.44	10.676			
14,500.0	9,769.1	14,453.9	9,788.3	45.3	38.7	-91.25	-4,417.3	-215.7	880.1	796.9	83.23	10.575			
14,535.0	9,769.1	14,488.9	9,788.3	45.5	39.0	-91.25	-4,452.3	-216.0	880.1	796.4	83.69	10.516			
14,600.0	9,769.2	14,553.9	9,788.3	45.9	39.4	-91.25	-4,517.3	-216.5	880.1	795.6	84.55	10.409			

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #802H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9257-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Offset	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)		
14,630.0	9,769.2	14,583.9	9,788.3	46.1	39.6	-91.25	-4,547.3	-216.8	880.1	795.2	84.95	10.360
14,700.0	9,769.2	14,653.9	9,788.4	46.5	40.1	-91.24	-4,617.3	-217.4	880.1	794.2	85.88	10.248
14,725.0	9,769.3	14,678.9	9,788.4	46.7	40.3	-91.24	-4,642.3	-217.6	880.1	793.9	86.22	10.208
14,800.0	9,769.3	14,753.9	9,788.4	47.1	40.8	-91.24	-4,717.3	-218.2	880.1	792.9	87.22	10.091
14,820.0	9,769.3	14,773.9	9,788.4	47.2	41.0	-91.24	-4,737.3	-218.4	880.1	792.6	87.49	10.060
14,900.0	9,769.4	14,853.9	9,788.5	47.7	41.6	-91.24	-4,817.3	-219.0	880.1	791.5	88.56	9.938
14,915.0	9,769.4	14,868.9	9,788.5	47.8	41.7	-91.24	-4,832.3	-219.1	880.1	791.3	88.76	9.915
15,000.0	9,769.5	14,953.9	9,788.5	48.4	42.3	-91.24	-4,917.3	-219.8	880.1	790.2	89.91	9.789
15,010.0	9,769.5	14,963.9	9,788.5	48.4	42.3	-91.24	-4,927.3	-219.9	880.1	790.1	90.05	9.774
15,100.0	9,769.5	15,053.9	9,788.6	49.0	43.0	-91.24	-5,017.3	-220.7	880.1	788.8	91.27	9.643
15,105.0	9,769.5	15,058.9	9,788.6	49.0	43.0	-91.24	-5,022.3	-220.7	880.1	788.8	91.33	9.636
15,200.0	9,769.6	15,153.9	9,788.6	49.6	43.7	-91.24	-5,117.3	-221.5	880.1	787.5	92.63	9.502
15,295.0	9,769.7	15,248.9	9,788.7	50.2	44.4	-91.24	-5,212.3	-222.3	880.1	786.2	93.92	9.371
15,300.0	9,769.7	15,253.9	9,788.7	50.2	44.4	-91.24	-5,217.3	-222.3	880.1	786.1	93.99	9.364
15,390.0	9,769.7	15,343.9	9,788.7	50.8	45.1	-91.24	-5,307.3	-223.1	880.1	784.9	95.22	9.243
15,400.0	9,769.7	15,353.9	9,788.7	50.9	45.1	-91.24	-5,317.3	-223.2	880.1	784.7	95.36	9.229
15,485.0	9,769.8	15,438.9	9,788.8	51.4	45.8	-91.23	-5,402.3	-223.9	880.1	783.6	96.53	9.118
15,500.0	9,769.8	15,453.9	9,788.8	51.5	45.9	-91.23	-5,417.3	-224.0	880.1	783.4	96.73	9.098
15,580.0	9,769.9	15,533.9	9,788.8	52.0	46.4	-91.23	-5,497.3	-224.6	880.1	782.3	97.84	8.996
15,600.0	9,769.9	15,553.9	9,788.8	52.1	46.6	-91.23	-5,517.3	-224.8	880.1	782.0	98.11	8.970
15,675.0	9,769.9	15,628.9	9,788.9	52.6	47.1	-91.23	-5,592.3	-225.4	880.1	781.0	99.15	8.877
15,700.0	9,770.0	15,653.9	9,788.9	52.8	47.3	-91.23	-5,617.3	-225.6	880.1	780.6	99.49	8.846
15,770.0	9,770.0	15,723.9	9,788.9	53.2	47.8	-91.23	-5,687.3	-226.2	880.1	779.6	100.46	8.760
15,800.0	9,770.0	15,753.9	9,788.9	53.4	48.0	-91.23	-5,717.3	-226.5	880.1	779.2	100.88	8.724
15,865.0	9,770.1	15,818.9	9,789.0	53.8	48.5	-91.23	-5,782.3	-227.0	880.1	778.3	101.78	8.647
15,900.0	9,770.1	15,853.9	9,789.0	54.1	48.8	-91.23	-5,817.2	-227.3	880.1	777.8	102.27	8.606
15,960.0	9,770.1	15,913.9	9,789.0	54.5	49.2	-91.23	-5,877.2	-227.8	880.1	777.0	103.11	8.536
16,000.0	9,770.2	15,953.9	9,789.0	54.7	49.5	-91.23	-5,917.2	-228.1	880.1	776.4	103.66	8.490
16,055.0	9,770.2	16,008.9	9,789.1	55.1	49.9	-91.23	-5,972.2	-228.6	880.1	775.7	104.43	8.427
16,100.0	9,770.2	16,053.9	9,789.1	55.4	50.2	-91.23	-6,017.2	-228.9	880.1	775.0	105.06	8.377
16,150.0	9,770.3	16,103.9	9,789.1	55.7	50.6	-91.23	-6,067.2	-229.4	880.1	774.3	105.76	8.321
16,200.0	9,770.3	16,153.9	9,789.1	56.0	51.0	-91.23	-6,117.2	-229.8	880.1	773.6	106.46	8.267
16,245.0	9,770.4	16,198.9	9,789.2	56.3	51.3	-91.22	-6,162.2	-230.1	880.1	773.0	107.10	8.218
16,300.0	9,770.4	16,253.9	9,789.2	56.7	51.7	-91.22	-6,217.2	-230.6	880.1	772.2	107.87	8.159
16,340.0	9,770.4	16,293.9	9,789.2	57.0	52.0	-91.22	-6,257.2	-230.9	880.1	771.7	108.43	8.117
16,400.0	9,770.5	16,353.9	9,789.2	57.4	52.4	-91.22	-6,317.2	-231.4	880.1	770.8	109.28	8.054
16,435.0	9,770.5	16,388.9	9,789.3	57.6	52.7	-91.22	-6,352.2	-231.7	880.1	770.3	109.77	8.018
16,500.0	9,770.5	16,453.9	9,789.3	58.0	53.2	-91.22	-6,417.2	-232.3	880.1	769.4	110.69	7.951
16,530.0	9,770.6	16,483.9	9,789.3	58.2	53.4	-91.22	-6,447.2	-232.5	880.1	769.0	111.11	7.921
16,600.0	9,770.6	16,553.9	9,789.4	58.7	53.9	-91.22	-6,517.2	-233.1	880.1	768.0	112.10	7.851
16,625.0	9,770.6	16,578.9	9,789.4	58.9	54.1	-91.22	-6,542.2	-233.3	880.1	767.6	112.46	7.826
16,700.0	9,770.7	16,653.9	9,789.4	59.4	54.6	-91.22	-6,617.2	-233.9	880.1	766.6	113.52	7.753
16,720.0	9,770.7	16,673.9	9,789.4	59.5	54.8	-91.22	-6,637.2	-234.1	880.1	766.3	113.80	7.734
16,800.0	9,770.8	16,753.9	9,789.5	60.0	55.4	-91.22	-6,717.2	-234.7	880.1	765.1	114.94	7.657
16,815.0	9,770.8	16,768.9	9,789.5	60.1	55.5	-91.22	-6,732.2	-234.9	880.1	764.9	115.15	7.643
16,900.0	9,770.8	16,853.9	9,789.5	60.7	56.1	-91.22	-6,817.2	-235.6	880.1	763.7	116.36	7.563
16,910.0	9,770.8	16,863.9	9,789.5	60.8	56.2	-91.22	-6,827.2	-235.7	880.1	763.6	116.50	7.554
17,000.0	9,770.9	16,953.9	9,789.6	61.4	56.8	-91.22	-6,917.2	-236.4	880.1	762.3	117.78	7.472
17,005.0	9,770.9	16,958.9	9,789.6	61.4	56.9	-91.22	-6,922.2	-236.4	880.1	762.2	117.86	7.467
17,100.0	9,771.0	17,053.9	9,789.6	62.1	57.6	-91.21	-7,017.2	-237.2	880.1	760.9	119.21	7.382
17,195.0	9,771.0	17,148.9	9,789.7	62.7	58.3	-91.21	-7,112.2	-238.0	880.1	759.5	120.57	7.299

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #802H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9257-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Offset	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)		
17,200.0	9,771.0	17,153.9	9,789.7	62.7	58.3	-91.21	-7,117.2	-238.1	880.1	759.4	120.64	7.295
17,290.0	9,771.1	17,243.9	9,789.7	63.4	59.0	-91.21	-7,207.2	-238.8	880.1	758.2	121.93	7.218
17,300.0	9,771.1	17,253.9	9,789.7	63.4	59.0	-91.21	-7,217.2	-238.9	880.1	758.0	122.07	7.209
17,385.0	9,771.2	17,338.9	9,789.8	64.0	59.7	-91.21	-7,302.2	-239.6	880.1	756.8	123.29	7.138
17,400.0	9,771.2	17,353.9	9,789.8	64.1	59.8	-91.21	-7,317.2	-239.7	880.1	756.6	123.51	7.126
17,480.0	9,771.2	17,433.9	9,789.8	64.7	60.4	-91.21	-7,397.2	-240.4	880.1	755.4	124.66	7.060
17,500.0	9,771.3	17,453.9	9,789.8	64.8	60.5	-91.21	-7,417.2	-240.5	880.1	755.1	124.95	7.044
17,575.0	9,771.3	17,528.9	9,789.9	65.3	61.1	-91.21	-7,492.2	-241.2	880.1	754.1	126.02	6.983
17,600.0	9,771.3	17,553.9	9,789.9	65.5	61.3	-91.21	-7,517.2	-241.4	880.1	753.7	126.38	6.964
17,670.0	9,771.4	17,623.9	9,789.9	66.0	61.8	-91.21	-7,587.2	-241.9	880.1	752.7	127.39	6.908
17,700.0	9,771.4	17,653.9	9,789.9	66.2	62.0	-91.21	-7,617.2	-242.2	880.1	752.3	127.82	6.885
17,765.0	9,771.5	17,718.9	9,790.0	66.6	62.5	-91.21	-7,682.2	-242.7	880.1	751.3	128.76	6.835
17,800.0	9,771.5	17,753.9	9,790.0	66.9	62.8	-91.20	-7,717.2	-243.0	880.1	750.8	129.27	6.808
17,860.0	9,771.5	17,813.9	9,790.0	67.3	63.2	-91.20	-7,777.2	-243.5	880.1	749.9	130.13	6.763
17,900.0	9,771.6	17,853.9	9,790.0	67.6	63.5	-91.20	-7,817.2	-243.8	880.1	749.4	130.71	6.733
17,955.0	9,771.6	17,908.9	9,790.1	68.0	63.9	-91.20	-7,872.2	-244.3	880.1	748.6	131.51	6.692
18,000.0	9,771.6	17,953.9	9,790.1	68.3	64.2	-91.20	-7,917.2	-244.7	880.1	747.9	132.16	6.659
18,050.0	9,771.7	18,003.9	9,790.1	68.6	64.6	-91.20	-7,967.2	-245.1	880.1	747.2	132.88	6.623
18,100.0	9,771.7	18,053.9	9,790.1	69.0	65.0	-91.20	-8,017.2	-245.5	880.1	746.5	133.61	6.587
18,145.0	9,771.7	18,098.9	9,790.2	69.3	65.3	-91.20	-8,062.2	-245.9	880.1	745.8	134.26	6.555
18,200.0	9,771.8	18,153.9	9,790.2	69.7	65.7	-91.20	-8,117.2	-246.3	880.1	745.0	135.06	6.516
18,240.0	9,771.8	18,193.9	9,790.2	69.9	66.0	-91.20	-8,157.2	-246.7	880.1	744.4	135.64	6.488
18,300.0	9,771.8	18,253.9	9,790.2	70.4	66.5	-91.20	-8,217.2	-247.2	880.1	743.6	136.51	6.447
18,335.0	9,771.9	18,288.9	9,790.3	70.6	66.7	-91.20	-8,252.2	-247.4	880.1	743.1	137.02	6.423
18,400.0	9,771.9	18,353.9	9,790.3	71.1	67.2	-91.20	-8,317.2	-248.0	880.1	742.1	137.96	6.379
18,430.0	9,771.9	18,383.9	9,790.3	71.3	67.4	-91.20	-8,347.2	-248.2	880.1	741.7	138.40	6.359
18,500.0	9,772.0	18,453.9	9,790.4	71.8	68.0	-91.20	-8,417.2	-248.8	880.1	740.7	139.42	6.313
18,525.0	9,772.0	18,478.9	9,790.4	71.9	68.2	-91.20	-8,442.2	-249.0	880.1	740.3	139.78	6.296
18,600.0	9,772.1	18,553.9	9,790.4	72.5	68.7	-91.19	-8,517.2	-249.6	880.1	739.2	140.87	6.247
18,620.0	9,772.1	18,573.9	9,790.4	72.6	68.9	-91.19	-8,537.2	-249.8	880.1	738.9	141.16	6.234
18,700.0	9,772.1	18,653.9	9,790.5	73.2	69.5	-91.19	-8,617.2	-250.5	880.1	737.7	142.33	6.183
18,715.0	9,772.1	18,668.9	9,790.5	73.3	69.6	-91.19	-8,632.2	-250.6	880.1	737.5	142.55	6.174
18,800.0	9,772.2	18,753.9	9,790.5	73.9	70.2	-91.19	-8,717.1	-251.3	880.1	736.3	143.79	6.121
18,810.0	9,772.2	18,763.9	9,790.5	74.0	70.3	-91.19	-8,727.1	-251.4	880.1	736.1	143.94	6.114
18,900.0	9,772.3	18,853.9	9,790.6	74.6	71.0	-91.19	-8,817.1	-252.1	880.1	734.8	145.25	6.059
18,905.0	9,772.3	18,858.9	9,790.6	74.6	71.0	-91.19	-8,822.1	-252.2	880.1	734.7	145.32	6.056
19,000.0	9,772.3	18,953.9	9,790.6	75.3	71.7	-91.19	-8,917.1	-253.0	880.1	733.4	146.71	5.999
19,095.0	9,772.4	19,048.9	9,790.7	76.0	72.4	-91.19	-9,012.1	-253.7	880.1	732.0	148.10	5.942
19,100.0	9,772.4	19,053.9	9,790.7	76.0	72.5	-91.19	-9,017.1	-253.8	880.1	731.9	148.17	5.939
19,190.0	9,772.5	19,143.9	9,790.7	76.7	73.1	-91.19	-9,107.1	-254.5	880.1	730.6	149.49	5.887
19,200.0	9,772.5	19,153.9	9,790.7	76.7	73.2	-91.19	-9,117.1	-254.6	880.1	730.4	149.64	5.881
19,285.0	9,772.6	19,238.9	9,790.8	77.3	73.8	-91.19	-9,202.1	-255.3	880.1	729.2	150.89	5.833
19,300.0	9,772.6	19,253.9	9,790.8	77.4	73.9	-91.19	-9,217.1	-255.4	880.1	729.0	151.11	5.824
19,380.0	9,772.6	19,333.9	9,790.8	78.0	74.5	-91.18	-9,297.1	-256.1	880.1	727.8	152.28	5.779
19,400.0	9,772.6	19,353.9	9,790.8	78.2	74.7	-91.18	-9,317.1	-256.3	880.1	727.5	152.57	5.768
19,475.0	9,772.7	19,428.9	9,790.9	78.7	75.3	-91.18	-9,392.1	-256.9	880.1	726.4	153.67	5.727
19,500.0	9,772.7	19,453.9	9,790.9	78.9	75.4	-91.18	-9,417.1	-257.1	880.1	726.0	154.04	5.713
19,570.0	9,772.8	19,523.9	9,790.9	79.4	76.0	-91.18	-9,487.1	-257.7	880.1	725.0	155.07	5.675
19,600.0	9,772.8	19,553.9	9,790.9	79.6	76.2	-91.18	-9,517.1	-257.9	880.1	724.5	155.51	5.659
19,665.0	9,772.8	19,618.9	9,791.0	80.0	76.7	-91.18	-9,582.1	-258.5	880.1	723.6	156.47	5.625
19,700.0	9,772.9	19,653.9	9,791.0	80.3	76.9	-91.18	-9,617.1	-258.7	880.1	723.1	156.98	5.606

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #802H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9257-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Offset	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)		
19,760.0	9,772.9	19,713.9	9,791.0	80.7	77.4	-91.18	-9,677.1	-259.2	880.1	722.2	157.86	5.575
19,800.0	9,772.9	19,753.9	9,791.0	81.0	77.7	-91.18	-9,717.1	-259.6	880.1	721.6	158.45	5.554
19,855.0	9,773.0	19,808.9	9,791.1	81.4	78.1	-91.18	-9,772.1	-260.0	880.1	720.8	159.26	5.526
19,900.0	9,773.0	19,853.9	9,791.1	81.7	78.4	-91.18	-9,817.1	-260.4	880.1	720.1	159.92	5.503
19,950.0	9,773.0	19,903.9	9,791.1	82.1	78.8	-91.18	-9,867.1	-260.8	880.1	719.4	160.66	5.478
20,000.0	9,773.1	19,953.9	9,791.1	82.5	79.2	-91.18	-9,917.1	-261.2	880.1	718.7	161.40	5.453
20,045.0	9,773.1	19,998.9	9,791.2	82.8	79.5	-91.18	-9,962.1	-261.6	880.0	718.0	162.06	5.430
20,100.0	9,773.1	20,053.9	9,791.2	83.2	79.9	-91.18	-10,017.1	-262.1	880.0	717.2	162.87	5.403
20,140.0	9,773.2	20,093.9	9,791.2	83.5	80.2	-91.17	-10,057.1	-262.4	880.0	716.6	163.46	5.384
20,200.0	9,773.2	20,153.9	9,791.2	83.9	80.7	-91.17	-10,117.1	-262.9	880.0	715.7	164.35	5.355
20,235.0	9,773.2	20,188.9	9,791.3	84.1	81.0	-91.17	-10,152.1	-263.2	880.0	715.2	164.86	5.338
20,300.0	9,773.3	20,253.9	9,791.3	84.6	81.5	-91.17	-10,217.1	-263.7	880.0	714.2	165.82	5.307
20,330.0	9,773.3	20,283.9	9,791.3	84.8	81.7	-91.17	-10,247.1	-264.0	880.0	713.8	166.27	5.293
20,400.0	9,773.4	20,353.9	9,791.3	85.3	82.2	-91.17	-10,317.1	-264.5	880.0	712.7	167.30	5.260
20,425.0	9,773.4	20,378.9	9,791.4	85.5	82.4	-91.17	-10,342.1	-264.7	880.0	712.4	167.67	5.249
20,500.0	9,773.4	20,453.9	9,791.4	86.1	83.0	-91.17	-10,417.1	-265.4	880.0	711.3	168.78	5.214
20,520.0	9,773.4	20,473.9	9,791.4	86.2	83.1	-91.17	-10,437.1	-265.5	880.0	711.0	169.08	5.205
20,600.0	9,773.5	20,553.9	9,791.5	86.8	83.7	-91.17	-10,517.1	-266.2	880.0	709.8	170.26	5.169
20,615.0	9,773.5	20,568.9	9,791.5	86.9	83.8	-91.17	-10,532.1	-266.3	880.0	709.6	170.48	5.162
20,700.0	9,773.6	20,653.9	9,791.5	87.5	84.5	-91.17	-10,617.1	-267.0	880.0	708.3	171.74	5.124
20,710.0	9,773.6	20,663.9	9,791.5	87.6	84.5	-91.17	-10,627.1	-267.1	880.0	708.2	171.89	5.120
20,800.0	9,773.6	20,753.9	9,791.6	88.2	85.2	-91.17	-10,717.1	-267.9	880.0	706.8	173.22	5.080
20,805.0	9,773.7	20,758.9	9,791.6	88.3	85.3	-91.17	-10,722.1	-267.9	880.0	706.7	173.29	5.078
20,900.0	9,773.7	20,853.9	9,791.6	89.0	86.0	-91.16	-10,817.1	-268.7	880.0	705.3	174.70	5.037
20,995.0	9,773.8	20,948.9	9,791.7	89.6	86.7	-91.16	-10,912.1	-269.5	880.0	703.9	176.11	4.997
21,000.0	9,773.8	20,953.9	9,791.7	89.7	86.7	-91.16	-10,917.1	-269.5	880.0	703.9	176.18	4.995
21,090.0	9,773.9	21,043.9	9,791.7	90.3	87.4	-91.16	-11,007.1	-270.3	880.0	702.5	177.52	4.957
21,100.0	9,773.9	21,053.9	9,791.7	90.4	87.5	-91.16	-11,017.1	-270.3	880.0	702.4	177.67	4.953
21,185.0	9,773.9	21,138.9	9,791.8	91.0	88.1	-91.16	-11,102.1	-271.0	880.0	701.1	178.93	4.918
21,200.0	9,773.9	21,153.9	9,791.8	91.1	88.2	-91.16	-11,117.1	-271.2	880.0	700.9	179.15	4.912
21,280.0	9,774.0	21,233.9	9,791.8	91.7	88.8	-91.16	-11,197.1	-271.8	880.0	699.7	180.34	4.880
21,300.0	9,774.0	21,253.9	9,791.8	91.9	89.0	-91.16	-11,217.1	-272.0	880.0	699.4	180.64	4.872
21,375.0	9,774.1	21,328.9	9,791.9	92.4	89.5	-91.16	-11,292.1	-272.6	880.0	698.3	181.75	4.842
21,400.0	9,774.1	21,353.9	9,791.9	92.6	89.7	-91.16	-11,317.1	-272.8	880.0	697.9	182.12	4.832
21,470.0	9,774.1	21,423.9	9,791.9	93.1	90.3	-91.16	-11,387.1	-273.4	880.0	696.9	183.16	4.805
21,500.0	9,774.2	21,453.9	9,791.9	93.3	90.5	-91.16	-11,417.1	-273.6	880.0	696.4	183.61	4.793
21,565.0	9,774.2	21,518.9	9,792.0	93.8	91.0	-91.16	-11,482.1	-274.2	880.0	695.5	184.57	4.768
21,600.0	9,774.2	21,553.9	9,792.0	94.1	91.2	-91.16	-11,517.1	-274.5	880.0	694.9	185.09	4.755
21,660.0	9,774.3	21,613.9	9,792.0	94.5	91.7	-91.15	-11,577.1	-275.0	880.0	694.0	185.99	4.732
21,700.0	9,774.3	21,653.9	9,792.0	94.8	92.0	-91.15	-11,617.0	-275.3	880.0	693.4	186.58	4.717
21,755.0	9,774.3	21,708.9	9,792.1	95.2	92.4	-91.15	-11,672.0	-275.8	880.0	692.6	187.40	4.696
21,800.0	9,774.4	21,753.9	9,792.1	95.5	92.8	-91.15	-11,717.0	-276.1	880.0	692.0	188.07	4.679
21,850.0	9,774.4	21,803.9	9,792.1	95.9	93.1	-91.15	-11,767.0	-276.5	880.0	691.2	188.81	4.661
21,900.0	9,774.4	21,853.9	9,792.1	96.2	93.5	-91.15	-11,817.0	-277.0	880.0	690.5	189.56	4.643
21,945.0	9,774.5	21,898.9	9,792.2	96.6	93.8	-91.15	-11,862.0	-277.3	880.0	689.8	190.23	4.626
22,000.0	9,774.5	21,953.9	9,792.2	97.0	94.3	-91.15	-11,917.0	-277.8	880.0	689.0	191.05	4.606
22,040.0	9,774.5	21,993.9	9,792.2	97.3	94.6	-91.15	-11,957.0	-278.1	880.0	688.4	191.64	4.592
22,100.0	9,774.6	22,053.9	9,792.2	97.7	95.0	-91.15	-12,017.0	-278.6	880.0	687.5	192.54	4.571
22,135.0	9,774.6	22,088.9	9,792.3	98.0	95.3	-91.15	-12,052.0	-278.9	880.0	687.0	193.06	4.558
22,200.0	9,774.7	22,153.9	9,792.3	98.4	95.8	-91.15	-12,117.0	-279.4	880.0	686.0	194.03	4.536
22,230.0	9,774.7	22,183.9	9,792.3	98.7	96.0	-91.15	-12,147.0	-279.7	880.0	685.5	194.47	4.525

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #802H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9257-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		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)	Separation Factor	
22,300.0	9,774.7	22,253.9	9,792.3	99.2	96.5	-91.15	-12,217.0	-280.3	880.0	684.5	195.52	4.501	
22,325.0	9,774.8	22,278.9	9,792.4	99.4	96.7	-91.15	-12,242.0	-280.5	880.0	684.1	195.89	4.492	
22,400.0	9,774.8	22,353.9	9,792.4	99.9	97.3	-91.15	-12,317.0	-281.1	880.0	683.0	197.01	4.467	
22,420.0	9,774.8	22,373.9	9,792.4	100.1	97.4	-91.14	-12,337.0	-281.3	880.0	682.7	197.31	4.460	
22,500.0	9,774.9	22,453.9	9,792.4	100.6	98.0	-91.14	-12,417.0	-281.9	880.0	681.5	198.50	4.433	
22,515.0	9,774.9	22,468.9	9,792.5	100.8	98.1	-91.14	-12,432.0	-282.0	880.0	681.3	198.73	4.428	
22,600.0	9,775.0	22,553.9	9,792.5	101.4	98.8	-91.14	-12,517.0	-282.8	880.0	680.0	200.00	4.400	
22,610.0	9,775.0	22,563.9	9,792.5	101.5	98.9	-91.14	-12,527.0	-282.8	880.0	679.9	200.14	4.397	
22,700.0	9,775.0	22,653.9	9,792.6	102.1	99.5	-91.14	-12,617.0	-283.6	880.0	678.5	201.49	4.368	
22,705.0	9,775.0	22,658.9	9,792.6	102.2	99.6	-91.14	-12,622.0	-283.6	880.0	678.5	201.56	4.366	
22,800.0	9,775.1	22,753.9	9,792.6	102.9	100.3	-91.14	-12,717.0	-284.4	880.0	677.0	202.98	4.335	
22,895.0	9,775.2	22,848.9	9,792.7	103.6	101.0	-91.14	-12,812.0	-285.2	880.0	675.6	204.40	4.305	
22,900.0	9,775.2	22,853.9	9,792.7	103.6	101.1	-91.14	-12,817.0	-285.2	880.0	675.5	204.48	4.304	
22,990.0	9,775.2	22,943.9	9,792.7	104.3	101.7	-91.14	-12,907.0	-286.0	880.0	674.2	205.82	4.276	
23,000.0	9,775.2	22,953.9	9,792.7	104.3	101.8	-91.14	-12,917.0	-286.1	880.0	674.0	205.97	4.273	
23,085.0	9,775.3	23,038.9	9,792.8	105.0	102.5	-91.14	-13,002.0	-286.8	880.0	672.8	207.24	4.246	
23,100.0	9,775.3	23,053.9	9,792.8	105.1	102.6	-91.14	-13,017.0	-286.9	880.0	672.5	207.47	4.242	
23,180.0	9,775.4	23,133.9	9,792.8	105.7	103.2	-91.14	-13,097.0	-287.6	880.0	671.4	208.66	4.217	
23,200.0	9,775.4	23,153.9	9,792.8	105.8	103.3	-91.13	-13,117.0	-287.7	880.0	671.1	208.96	4.211	
23,275.0	9,775.4	23,228.9	9,792.9	106.4	103.9	-91.13	-13,192.0	-288.3	880.0	669.9	210.08	4.189	
23,300.0	9,775.5	23,253.9	9,792.9	106.5	104.1	-91.13	-13,217.0	-288.5	880.0	669.6	210.46	4.181	
23,370.0	9,775.5	23,323.9	9,792.9	107.1	104.6	-91.13	-13,287.0	-289.1	880.0	668.5	211.51	4.161	
23,400.0	9,775.5	23,353.9	9,792.9	107.3	104.8	-91.13	-13,317.0	-289.4	880.0	668.1	211.95	4.152	
23,465.0	9,775.6	23,418.9	9,793.0	107.8	105.3	-91.13	-13,382.0	-289.9	880.0	667.1	212.93	4.133	
23,500.0	9,775.6	23,453.9	9,793.0	108.0	105.6	-91.13	-13,417.0	-290.2	880.0	666.6	213.45	4.123	
23,560.0	9,775.6	23,513.9	9,793.0	108.5	106.1	-91.13	-13,477.0	-290.7	880.0	665.7	214.35	4.105	
23,600.0	9,775.7	23,553.9	9,793.0	108.8	106.4	-91.13	-13,517.0	-291.0	880.0	665.1	214.95	4.094	
23,655.0	9,775.7	23,608.9	9,793.1	109.2	106.8	-91.13	-13,572.0	-291.5	880.0	664.2	215.77	4.078	
23,700.0	9,775.7	23,653.9	9,793.1	109.5	107.1	-91.13	-13,617.0	-291.9	880.0	663.6	216.45	4.066	
23,750.0	9,775.8	23,703.9	9,793.1	109.9	107.5	-91.13	-13,667.0	-292.3	880.0	662.8	217.20	4.052	
23,800.0	9,775.8	23,753.9	9,793.1	110.2	107.9	-91.13	-13,717.0	-292.7	880.0	662.1	217.95	4.038	
23,845.0	9,775.9	23,798.9	9,793.2	110.6	108.2	-91.13	-13,762.0	-293.1	880.0	661.4	218.62	4.025	
23,900.0	9,775.9	23,853.9	9,793.2	111.0	108.6	-91.13	-13,817.0	-293.5	880.0	660.6	219.44	4.010	
23,940.0	9,775.9	23,893.9	9,793.2	111.3	108.9	-91.13	-13,857.0	-293.8	880.0	660.0	220.04	3.999	
24,000.0	9,776.0	23,953.9	9,793.2	111.7	109.4	-91.12	-13,917.0	-294.3	880.0	659.1	220.94	3.983	
24,035.0	9,776.0	23,988.9	9,793.3	112.0	109.6	-91.12	-13,952.0	-294.6	880.0	658.5	221.47	3.973	
24,100.0	9,776.0	24,053.9	9,793.3	112.5	110.1	-91.12	-14,017.0	-295.2	880.0	657.6	222.44	3.956	
24,130.0	9,776.1	24,083.9	9,793.3	112.7	110.4	-91.12	-14,047.0	-295.4	880.0	657.1	222.89	3.948	
24,200.0	9,776.1	24,153.9	9,793.3	113.2	110.9	-91.12	-14,117.0	-296.0	880.0	656.1	223.94	3.930	
24,225.0	9,776.1	24,178.9	9,793.4	113.4	111.1	-91.12	-14,142.0	-296.2	880.0	655.7	224.32	3.923	
24,300.0	9,776.2	24,253.9	9,793.4	113.9	111.7	-91.12	-14,217.0	-296.8	880.0	654.6	225.44	3.903	
24,320.0	9,776.2	24,273.9	9,793.4	114.1	111.8	-91.12	-14,237.0	-297.0	880.0	654.3	225.74	3.898	
24,400.0	9,776.3	24,353.9	9,793.4	114.7	112.4	-91.12	-14,317.0	-297.6	880.0	653.1	226.94	3.878	
24,415.0	9,776.3	24,368.9	9,793.5	114.8	112.5	-91.12	-14,332.0	-297.8	880.0	652.8	227.17	3.874	
24,500.0	9,776.3	24,453.9	9,793.5	115.4	113.2	-91.12	-14,417.0	-298.5	880.0	651.6	228.45	3.852	
24,510.0	9,776.3	24,463.9	9,793.5	115.5	113.2	-91.12	-14,427.0	-298.6	880.0	651.4	228.60	3.850	
24,600.0	9,776.4	24,553.9	9,793.6	116.2	113.9	-91.12	-14,516.9	-299.3	880.0	650.1	229.95	3.827	
24,605.0	9,776.4	24,558.9	9,793.6	116.2	114.0	-91.12	-14,521.9	-299.3	880.0	650.0	230.02	3.826	
24,700.0	9,776.5	24,653.9	9,793.6	116.9	114.7	-91.12	-14,616.9	-300.1	880.0	648.5	231.45	3.802	
24,795.0	9,776.5	24,748.9	9,793.7	117.6	115.4	-91.11	-14,711.9	-300.9	880.0	647.1	232.88	3.779	
24,800.0	9,776.5	24,753.9	9,793.7	117.6	115.4	-91.11	-14,716.9	-301.0	880.0	647.0	232.95	3.778	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design:	FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #802H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program:	0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9257-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Rule Assigned:		Distance		Minimum Separation	Separation Factor	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)			
24,890.0	9,776.6	24,843.9	9,793.7	118.3	116.1	-91.11	-14,806.9	-301.7	880.0	645.7	234.30	3.756	
24,900.0	9,776.6	24,853.9	9,793.7	118.4	116.2	-91.11	-14,816.9	-301.8	880.0	645.5	234.45	3.753	
24,985.0	9,776.7	24,938.9	9,793.8	119.0	116.8	-91.11	-14,901.9	-302.5	880.0	644.3	235.73	3.733	
25,000.0	9,776.7	24,953.9	9,793.8	119.1	117.0	-91.11	-14,916.9	-302.6	880.0	644.0	235.96	3.729	
25,080.0	9,776.7	25,033.9	9,793.8	119.7	117.6	-91.11	-14,996.9	-303.3	880.0	642.8	237.16	3.711	
25,100.0	9,776.8	25,053.9	9,793.8	119.9	117.7	-91.11	-15,016.9	-303.4	880.0	642.5	237.46	3.706	
25,175.0	9,776.8	25,128.9	9,793.9	120.4	118.3	-91.11	-15,091.9	-304.1	880.0	641.4	238.59	3.688	
25,200.0	9,776.8	25,153.9	9,793.9	120.6	118.5	-91.11	-15,116.9	-304.3	880.0	641.0	238.96	3.683	
25,270.0	9,776.9	25,223.9	9,793.9	121.1	119.0	-91.11	-15,186.9	-304.9	880.0	640.0	240.01	3.666	
25,300.6	9,776.9	25,254.6	9,793.9	121.4	119.2	-91.11	-15,217.6	-305.1	880.0	639.5	240.48	3.659	
25,365.0	9,777.0	25,318.9	9,794.0	121.8	119.7	-91.11	-15,281.9	-305.6	880.0	638.5	241.44	3.645	
25,400.0	9,777.0	25,353.9	9,794.0	122.1	120.0	-91.11	-15,316.9	-305.9	880.0	638.0	241.97	3.637	
25,430.7	9,777.0	25,384.6	9,794.0	122.3	120.2	-91.11	-15,347.6	-306.2	880.0	637.6	242.43	3.630	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #804H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9292-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Distance	Rule Assigned:									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,800.0	4,715.8	4,980.6	4,892.9	17.6	18.4	-18.09	395.3	-1,958.5	1,313.1	1,281.3	31.82	41.262	
4,845.0	4,759.5	5,012.7	4,924.6	17.8	18.6	-18.03	398.6	-1,954.6	1,297.9	1,265.8	32.15	40.366	
4,900.0	4,812.9	5,052.2	4,963.7	18.1	18.8	-17.97	402.4	-1,950.2	1,279.8	1,247.2	32.55	39.315	
4,940.0	4,851.7	5,081.1	4,992.4	18.2	18.9	-17.94	405.0	-1,947.2	1,266.9	1,234.1	32.84	38.575	
5,000.0	4,909.9	5,124.8	5,035.7	18.5	19.1	-17.91	408.5	-1,943.2	1,248.1	1,214.9	33.28	37.510	
5,035.0	4,943.9	5,150.4	5,061.2	18.7	19.2	-17.90	410.4	-1,941.0	1,237.5	1,203.9	33.53	36.911	
5,100.0	5,006.9	5,200.0	5,110.5	19.0	19.4	-17.91	413.5	-1,937.3	1,218.2	1,184.2	33.99	35.836	
5,130.0	5,036.0	5,220.5	5,130.9	19.1	19.5	-17.92	414.7	-1,936.0	1,209.5	1,175.3	34.20	35.365	
5,200.0	5,104.0	5,272.5	5,182.8	19.5	19.7	-17.98	417.2	-1,933.1	1,189.9	1,155.2	34.69	34.300	
5,225.0	5,128.2	5,300.0	5,210.2	19.6	19.8	-18.02	418.2	-1,931.9	1,183.2	1,148.3	34.88	33.925	
5,300.0	5,201.0	5,347.4	5,257.6	19.9	19.9	-18.13	419.7	-1,930.3	1,163.4	1,128.0	35.38	32.887	
5,320.0	5,220.4	5,362.5	5,272.6	20.0	20.0	-18.16	420.0	-1,929.9	1,158.3	1,122.8	35.51	32.618	
5,400.0	5,298.0	5,422.9	5,333.1	20.4	20.2	-18.35	420.9	-1,928.8	1,138.7	1,102.7	36.02	31.611	
5,415.0	5,312.6	5,434.3	5,344.5	20.5	20.2	-18.39	420.9	-1,928.8	1,135.1	1,099.0	36.11	31.437	
5,500.0	5,395.1	5,510.8	5,421.0	20.9	20.2	-18.70	421.0	-1,928.7	1,115.5	1,078.9	36.56	30.510	
5,510.0	5,404.8	5,520.5	5,430.7	20.9	20.2	-18.74	421.0	-1,928.7	1,113.2	1,076.6	36.62	30.402	
5,600.0	5,492.1	5,607.8	5,518.0	21.4	20.3	-19.10	421.0	-1,928.7	1,092.6	1,055.5	37.10	29.451	
5,605.0	5,496.9	5,612.7	5,522.8	21.4	20.3	-19.12	421.0	-1,928.7	1,091.4	1,054.3	37.12	29.399	
5,700.0	5,589.1	5,704.9	5,615.0	21.8	20.3	-19.53	421.0	-1,928.7	1,069.7	1,032.0	37.63	28.425	
5,795.0	5,681.3	5,797.0	5,707.2	22.3	20.3	-19.94	421.0	-1,928.7	1,047.9	1,009.8	38.14	27.479	
5,800.0	5,686.1	5,801.9	5,712.0	22.3	20.3	-19.97	421.0	-1,928.7	1,046.8	1,008.6	38.16	27.429	
5,890.0	5,773.5	5,889.2	5,799.4	22.8	20.4	-20.38	421.0	-1,928.7	1,026.3	987.7	38.64	26.559	
5,900.0	5,783.2	5,898.9	5,809.1	22.8	20.4	-20.43	421.0	-1,928.7	1,024.0	985.3	38.70	26.464	
5,985.0	5,865.6	5,981.4	5,891.5	23.2	20.4	-20.83	421.0	-1,928.7	1,004.7	965.6	39.15	25.666	
6,000.0	5,880.2	5,996.0	5,906.1	23.3	20.4	-20.91	421.0	-1,928.7	1,001.3	962.1	39.23	25.527	
6,080.0	5,957.8	6,073.6	5,983.7	23.7	20.5	-21.31	421.0	-1,928.7	983.2	943.5	39.65	24.798	
6,100.0	5,977.2	6,093.0	6,003.1	23.8	20.5	-21.41	421.0	-1,928.7	978.7	938.9	39.75	24.618	
6,175.0	6,050.0	6,165.8	6,075.9	24.1	20.5	-21.80	421.0	-1,928.7	961.7	921.6	40.15	23.955	
6,200.0	6,074.3	6,190.0	6,100.2	24.2	20.5	-21.94	421.0	-1,928.7	956.1	915.8	40.28	23.737	
6,218.3	6,092.0	6,207.8	6,117.9	24.3	20.5	-22.04	421.0	-1,928.7	952.0	911.6	40.37	23.581	
6,270.0	6,142.3	6,258.0	6,168.2	24.6	20.6	-22.23	421.0	-1,928.7	940.8	900.1	40.64	23.149	
6,300.0	6,171.6	6,287.3	6,197.5	24.7	20.6	-22.33	421.0	-1,928.7	934.7	893.9	40.79	22.912	
6,365.0	6,235.2	6,351.0	6,261.1	25.0	20.6	-22.54	421.0	-1,928.7	922.4	881.3	41.13	22.428	
6,400.0	6,269.6	6,385.3	6,295.5	25.2	20.6	-22.65	421.0	-1,928.7	916.4	875.1	41.31	22.185	
6,460.0	6,328.7	6,444.5	6,354.6	25.5	20.6	-22.83	421.0	-1,928.7	907.0	865.4	41.60	21.802	
6,500.0	6,368.3	6,484.0	6,394.2	25.7	20.7	-22.93	421.0	-1,928.7	901.4	859.6	41.80	21.566	
6,555.0	6,422.7	6,538.5	6,448.6	25.9	20.7	-23.06	421.0	-1,928.7	894.5	852.4	42.05	21.271	
6,600.0	6,467.4	6,583.2	6,493.3	26.1	20.7	-23.16	421.0	-1,928.7	889.6	847.3	42.26	21.050	
6,650.0	6,517.2	6,632.9	6,543.1	26.3	20.7	-23.25	421.0	-1,928.7	884.9	842.4	42.48	20.832	
6,700.0	6,567.0	6,682.7	6,592.9	26.5	20.7	-23.33	421.0	-1,928.7	881.0	838.3	42.69	20.636	
6,745.0	6,611.9	6,727.6	6,637.8	26.7	20.8	-23.39	421.0	-1,928.7	878.1	835.3	42.87	20.486	
6,800.0	6,666.8	6,782.6	6,692.7	26.9	20.8	-23.44	421.0	-1,928.7	875.6	832.5	43.08	20.324	
6,840.0	6,706.8	6,822.5	6,732.7	27.0	20.8	-23.46	421.0	-1,928.7	874.3	831.1	43.21	20.235	
6,900.0	6,766.8	6,882.5	6,792.7	27.2	20.8	-23.48	421.0	-1,928.7	873.4	830.0	43.40	20.125	
6,918.2	6,785.0	6,900.8	6,810.9	27.2	20.9	-91.02	421.0	-1,928.7	873.3	829.9	43.43	20.111	
6,935.0	6,801.8	6,917.5	6,827.7	27.2	20.9	-91.02	421.0	-1,928.7	873.3	829.9	43.44	20.105	
7,000.0	6,866.8	6,982.5	6,892.7	27.2	20.9	-91.02	421.0	-1,928.7	873.3	829.8	43.49	20.081	
7,030.0	6,896.8	7,012.5	6,922.7	27.2	20.9	-91.02	421.0	-1,928.7	873.3	829.8	43.52	20.069	
7,100.0	6,966.8	7,082.5	6,992.7	27.2	20.9	-91.02	421.0	-1,928.7	873.3	829.8	43.58	20.041	
7,125.0	6,991.8	7,107.5	7,017.7	27.2	21.0	-91.02	421.0	-1,928.7	873.3	829.7	43.60	20.031	
7,200.0	7,066.8	7,182.5	7,092.7	27.3	21.0	-91.02	421.0	-1,928.7	873.3	829.7	43.66	20.001	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #804H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9292-r.5 MWD+IFR1+MS						Rule Assigned:				Offset Well Error:	3.0 usft	
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum 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)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
7,220.0	7,086.8	7,202.5	7,112.7	27.3	21.0	-91.02	421.0	-1,928.7	873.3	829.7	43.68	19.993		
7,300.0	7,166.8	7,282.5	7,192.7	27.3	21.0	-91.02	421.0	-1,928.7	873.3	829.6	43.75	19.961		
7,315.0	7,181.8	7,297.5	7,207.7	27.3	21.0	-91.02	421.0	-1,928.7	873.3	829.6	43.77	19.955		
7,400.0	7,266.8	7,382.5	7,292.7	27.3	21.1	-91.02	421.0	-1,928.7	873.3	829.5	43.84	19.921		
7,410.0	7,276.8	7,392.5	7,302.7	27.3	21.1	-91.02	421.0	-1,928.7	873.3	829.5	43.85	19.917		
7,500.0	7,366.8	7,482.5	7,392.7	27.4	21.1	-91.02	421.0	-1,928.7	873.3	829.4	43.93	19.881		
7,505.0	7,371.8	7,487.5	7,397.7	27.4	21.1	-91.02	421.0	-1,928.7	873.3	829.4	43.93	19.879		
7,600.0	7,466.8	7,582.5	7,492.7	27.4	21.2	-91.02	421.0	-1,928.7	873.3	829.3	44.02	19.840		
7,695.0	7,561.8	7,677.5	7,587.7	27.4	21.2	-91.02	421.0	-1,928.7	873.3	829.2	44.10	19.802		
7,700.0	7,566.8	7,682.5	7,592.7	27.4	21.2	-91.02	421.0	-1,928.7	873.3	829.2	44.11	19.800		
7,790.0	7,656.8	7,772.5	7,682.7	27.5	21.3	-91.02	421.0	-1,928.7	873.3	829.1	44.19	19.764		
7,800.0	7,666.8	7,782.5	7,692.7	27.5	21.3	-91.02	421.0	-1,928.7	873.3	829.1	44.20	19.760		
7,885.0	7,751.8	7,867.5	7,777.7	27.5	21.3	-91.02	421.0	-1,928.7	873.3	829.1	44.27	19.726		
7,900.0	7,766.8	7,882.5	7,792.7	27.5	21.3	-91.02	421.0	-1,928.7	873.3	829.0	44.29	19.720		
7,980.0	7,846.8	7,962.5	7,872.7	27.5	21.4	-91.02	421.0	-1,928.7	873.3	829.0	44.36	19.687		
8,000.0	7,866.8	7,982.5	7,892.7	27.5	21.4	-91.02	421.0	-1,928.7	873.3	829.0	44.38	19.679		
8,075.0	7,941.8	8,057.5	7,967.7	27.6	21.4	-91.02	421.0	-1,928.7	873.3	828.9	44.45	19.649		
8,100.0	7,966.8	8,082.5	7,992.7	27.6	21.4	-91.02	421.0	-1,928.7	873.3	828.9	44.47	19.639		
8,170.0	8,036.8	8,152.5	8,062.7	27.6	21.5	-91.02	421.0	-1,928.7	873.3	828.8	44.53	19.611		
8,200.0	8,066.8	8,182.5	8,092.7	27.6	21.5	-91.02	421.0	-1,928.7	873.3	828.8	44.56	19.599		
8,265.0	8,131.8	8,247.5	8,157.7	27.6	21.5	-91.02	421.0	-1,928.7	873.3	828.7	44.62	19.573		
8,300.0	8,166.8	8,282.5	8,192.7	27.6	21.5	-91.02	421.0	-1,928.7	873.3	828.7	44.65	19.558		
8,360.0	8,226.8	8,342.5	8,252.7	27.6	21.6	-91.02	421.0	-1,928.7	873.3	828.6	44.71	19.534		
8,400.0	8,266.8	8,382.5	8,292.7	27.7	21.6	-91.02	421.0	-1,928.7	873.3	828.6	44.75	19.518		
8,455.0	8,321.8	8,437.5	8,347.7	27.7	21.6	-91.02	421.0	-1,928.7	873.3	828.5	44.80	19.496		
8,500.0	8,366.8	8,482.5	8,392.7	27.7	21.6	-91.02	421.0	-1,928.7	873.3	828.5	44.84	19.478		
8,550.0	8,416.8	8,532.5	8,442.7	27.7	21.7	-91.02	421.0	-1,928.7	873.3	828.5	44.88	19.458		
8,600.0	8,466.8	8,582.5	8,492.7	27.7	21.7	-91.02	421.0	-1,928.7	873.3	828.4	44.93	19.437		
8,645.0	8,511.8	8,627.5	8,537.7	27.7	21.7	-91.02	421.0	-1,928.7	873.3	828.4	44.97	19.419		
8,700.0	8,566.8	8,682.5	8,592.7	27.8	21.7	-91.02	421.0	-1,928.7	873.3	828.3	45.02	19.397		
8,740.0	8,606.8	8,722.5	8,632.7	27.8	21.8	-91.02	421.0	-1,928.7	873.3	828.3	45.06	19.381		
8,800.0	8,666.8	8,782.5	8,692.7	27.8	21.8	-91.02	421.0	-1,928.7	873.3	828.2	45.12	19.357		
8,835.0	8,701.8	8,817.5	8,727.7	27.8	21.8	-91.02	421.0	-1,928.7	873.3	828.2	45.15	19.343		
8,900.0	8,766.8	8,882.5	8,792.7	27.8	21.8	-91.02	421.0	-1,928.7	873.3	828.1	45.21	19.316		
8,930.0	8,796.8	8,912.5	8,822.7	27.8	21.8	-91.02	421.0	-1,928.7	873.3	828.1	45.24	19.304		
9,000.0	8,866.8	8,982.5	8,892.7	27.9	21.9	-91.02	421.0	-1,928.7	873.3	828.0	45.31	19.276		
9,025.0	8,891.8	9,007.5	8,917.7	27.9	21.9	-91.02	421.0	-1,928.7	873.3	828.0	45.33	19.266		
9,100.0	8,966.8	9,082.5	8,992.7	27.9	21.9	-91.02	421.0	-1,928.7	873.3	827.9	45.40	19.236		
9,120.0	8,986.8	9,102.5	9,012.7	27.9	21.9	-91.02	421.0	-1,928.7	873.3	827.9	45.42	19.228		
9,200.0	9,066.8	9,182.5	9,092.7	27.9	22.0	-91.02	421.0	-1,928.7	873.3	827.8	45.50	19.195		
9,215.0	9,081.8	9,197.5	9,107.7	28.0	22.0	-91.02	421.0	-1,928.7	873.3	827.8	45.51	19.189		
9,300.0	9,166.8	9,282.5	9,192.7	28.0	22.0	-91.02	421.0	-1,928.7	873.3	827.7	45.59	19.157		
9,301.4	9,168.2	9,284.0	9,194.1	28.0	22.0	-91.02	421.0	-1,928.7	873.3	827.7	45.59	19.156 CC		
9,310.0	9,176.8	9,292.5	9,202.7	28.0	22.0	-91.02	421.0	-1,928.7	873.3	827.7	45.60	19.154		
9,326.3	9,193.0	9,308.1	9,218.3	28.0	22.0	-91.03	420.8	-1,928.7	873.3	827.7	45.60	19.152		
9,350.0	9,216.8	9,330.9	9,241.0	28.0	22.1	88.45	419.7	-1,928.7	873.4	827.8	45.61	19.149		
9,400.0	9,266.8	9,378.8	9,288.6	28.0	22.1	88.37	414.4	-1,928.8	873.4	827.8	45.62	19.145		
9,405.0	9,271.5	9,383.6	9,293.4	28.0	22.1	88.36	413.7	-1,928.8	873.4	827.8	45.62	19.145		
9,450.0	9,315.8	9,426.6	9,335.6	28.0	22.1	88.30	405.2	-1,928.8	873.4	827.8	45.63	19.143		
9,500.0	9,364.1	9,474.4	9,381.5	28.0	22.2	88.24	392.2	-1,929.0	873.5	827.8	45.63	19.143		
9,550.0	9,411.1	9,522.1	9,426.1	28.0	22.2	88.20	375.4	-1,929.1	873.5	827.9	45.63	19.145		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #804H - OWB - PWP1													Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9292-r.5 MWD+IFR1+MS		Offset		Semi Major Axis		Offset Wellbore Centre		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	
9,595.0	9,452.0	9,565.0	9,464.9	28.1	22.2	88.17	357.1	-1,929.3	873.5	827.9	45.62	19.148		
9,600.0	9,456.5	9,569.7	9,469.1	28.1	22.2	88.17	354.9	-1,929.3	873.5	827.9	45.62	19.148		
9,650.0	9,499.8	9,617.4	9,510.3	28.1	22.3	88.15	331.0	-1,929.5	873.6	827.9	45.61	19.152		
9,690.0	9,532.8	9,655.5	9,541.7	28.1	22.3	88.14	309.5	-1,929.7	873.6	828.0	45.61	19.155		
9,700.0	9,540.8	9,665.0	9,549.3	28.1	22.3	88.14	303.8	-1,929.7	873.6	828.0	45.60	19.155		
9,750.0	9,579.2	9,712.6	9,586.0	28.1	22.3	88.15	273.4	-1,930.0	873.6	828.0	45.60	19.158		
9,785.0	9,604.3	9,745.9	9,610.0	28.1	22.4	88.17	250.3	-1,930.2	873.6	828.0	45.60	19.160		
9,800.0	9,614.6	9,760.2	9,619.9	28.1	22.4	88.17	240.0	-1,930.3	873.6	828.0	45.59	19.160		
9,850.0	9,646.8	9,807.9	9,651.1	28.2	22.4	88.21	203.9	-1,930.6	873.6	828.0	45.59	19.160		
9,880.0	9,664.5	9,836.5	9,668.3	28.2	22.4	88.24	181.1	-1,930.8	873.6	828.0	45.60	19.158		
9,900.0	9,675.6	9,855.6	9,679.1	28.2	22.4	88.26	165.3	-1,931.0	873.6	828.0	45.60	19.157		
9,950.0	9,700.7	9,903.4	9,703.9	28.2	22.5	88.32	124.5	-1,931.3	873.6	828.0	45.61	19.151		
9,975.0	9,711.8	9,927.4	9,715.0	28.2	22.5	88.35	103.3	-1,931.5	873.6	828.0	45.63	19.147		
10,000.0	9,721.9	9,951.3	9,725.2	28.3	22.5	88.39	81.6	-1,931.7	873.6	827.9	45.64	19.142		
10,050.0	9,739.1	10,000.0	9,743.2	28.3	22.6	88.48	36.4	-1,932.1	873.6	827.9	45.67	19.128		
10,070.0	9,744.8	10,018.5	9,749.0	28.3	22.6	88.51	18.8	-1,932.3	873.6	827.9	45.69	19.121		
10,100.0	9,752.1	10,047.3	9,756.9	28.3	22.6	88.57	-8.9	-1,932.5	873.6	827.9	45.71	19.110		
10,150.0	9,760.9	10,095.5	9,766.9	28.4	22.6	88.68	-56.0	-1,932.9	873.6	827.8	45.77	19.086		
10,165.0	9,762.7	10,110.0	9,769.2	28.4	22.7	88.71	-70.4	-1,933.1	873.6	827.8	45.79	19.078		
10,200.0	9,765.4	10,143.9	9,773.0	28.4	22.7	88.80	-104.0	-1,933.4	873.5	827.7	45.84	19.058		
10,225.9	9,766.0	10,168.9	9,774.5	28.5	22.7	88.86	-129.0	-1,933.6	873.5	827.7	45.87	19.042		
10,231.4	9,766.0	10,174.3	9,774.7	28.5	22.7	88.87	-134.3	-1,933.6	873.5	827.7	45.88	19.038		
10,260.0	9,766.0	10,202.4	9,775.0	28.5	22.7	88.89	-162.4	-1,933.9	873.6	827.6	45.93	19.017		
10,300.0	9,766.1	10,242.4	9,775.0	28.5	22.8	88.89	-202.4	-1,934.2	873.6	827.6	46.02	18.982		
10,355.0	9,766.1	10,297.4	9,775.1	28.6	22.8	88.89	-257.4	-1,934.7	873.6	827.5	46.15	18.928		
10,400.0	9,766.1	10,342.4	9,775.1	28.7	22.9	88.89	-302.4	-1,935.1	873.6	827.4	46.27	18.880		
10,450.0	9,766.2	10,392.4	9,775.1	28.8	22.9	88.89	-352.4	-1,935.6	873.7	827.2	46.42	18.821		
10,500.0	9,766.2	10,442.4	9,775.1	28.8	23.0	88.89	-402.4	-1,936.0	873.7	827.1	46.58	18.758		
10,545.0	9,766.2	10,487.4	9,775.2	28.9	23.0	88.89	-447.4	-1,936.4	873.7	827.0	46.73	18.697		
10,600.0	9,766.3	10,542.4	9,775.2	29.0	23.1	88.89	-502.4	-1,936.9	873.8	826.8	46.93	18.619		
10,640.0	9,766.3	10,582.4	9,775.2	29.1	23.2	88.89	-542.4	-1,937.2	873.8	826.7	47.08	18.558		
10,700.0	9,766.3	10,642.4	9,775.2	29.2	23.3	88.88	-602.4	-1,937.8	873.8	826.5	47.33	18.463		
10,735.0	9,766.4	10,677.4	9,775.3	29.2	23.3	88.88	-637.4	-1,938.1	873.8	826.4	47.48	18.404		
10,800.0	9,766.4	10,742.4	9,775.3	29.4	23.4	88.88	-702.4	-1,938.7	873.9	826.1	47.77	18.291		
10,830.0	9,766.4	10,772.4	9,775.3	29.4	23.5	88.88	-732.4	-1,938.9	873.9	826.0	47.92	18.237		
10,900.0	9,766.5	10,842.4	9,775.3	29.6	23.6	88.88	-802.4	-1,939.5	873.9	825.7	48.27	18.106		
10,925.0	9,766.5	10,867.4	9,775.4	29.6	23.6	88.88	-827.4	-1,939.8	873.9	825.5	48.40	18.058		
11,000.0	9,766.6	10,942.4	9,775.4	29.8	23.8	88.88	-902.4	-1,940.4	874.0	825.2	48.80	17.909		
11,020.0	9,766.6	10,962.4	9,775.4	29.9	23.8	88.88	-922.4	-1,940.6	874.0	825.1	48.91	17.868		
11,100.0	9,766.6	11,042.4	9,775.4	30.0	24.0	88.88	-1,002.4	-1,941.3	874.0	824.7	49.38	17.701		
11,115.0	9,766.6	11,057.4	9,775.5	30.1	24.0	88.88	-1,017.4	-1,941.4	874.1	824.6	49.47	17.668		
11,200.0	9,766.7	11,142.4	9,775.5	30.3	24.2	88.88	-1,102.4	-1,942.2	874.1	824.1	50.00	17.483		
11,210.0	9,766.7	11,152.4	9,775.5	30.3	24.3	88.88	-1,112.4	-1,942.3	874.1	824.1	50.06	17.461		
11,300.0	9,766.8	11,242.4	9,775.6	30.6	24.5	88.88	-1,202.4	-1,943.1	874.2	823.5	50.65	17.258		
11,305.0	9,766.8	11,247.4	9,775.6	30.6	24.5	88.88	-1,207.4	-1,943.1	874.2	823.5	50.69	17.246		
11,400.0	9,766.8	11,342.4	9,775.6	30.9	24.7	88.88	-1,302.4	-1,944.0	874.2	822.9	51.35	17.026		
11,495.0	9,766.9	11,437.4	9,775.7	31.1	25.0	88.88	-1,397.4	-1,944.8	874.3	822.2	52.04	16.800		
11,500.0	9,766.9	11,442.4	9,775.7	31.2	25.0	88.88	-1,402.4	-1,944.9	874.3	822.2	52.08	16.788		
11,590.0	9,767.0	11,532.4	9,775.7	31.4	25.3	88.87	-1,492.4	-1,945.7	874.3	821.6	52.77	16.570		
11,600.0	9,767.0	11,542.4	9,775.7	31.5	25.3	88.87	-1,502.4	-1,945.7	874.3	821.5	52.84	16.546		
11,685.0	9,767.1	11,627.4	9,775.8	31.8	25.6	88.87	-1,587.4	-1,946.5	874.4	820.9	53.52	16.338		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #804H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9292-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation	Separation Factor	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)		
11,700.0	9,767.1	11,642.4	9,775.8	31.8	25.6	88.87	-1,602.4	-1,946.6	874.4	820.8	53.64	16.301
11,780.0	9,767.1	11,722.4	9,775.8	32.1	25.9	88.87	-1,682.4	-1,947.3	874.5	820.2	54.30	16.104
11,800.0	9,767.1	11,742.4	9,775.8	32.1	26.0	88.87	-1,702.4	-1,947.5	874.5	820.0	54.47	16.054
11,875.0	9,767.2	11,817.4	9,775.9	32.4	26.3	88.87	-1,777.4	-1,948.2	874.5	819.4	55.11	15.868
11,900.0	9,767.2	11,842.4	9,775.9	32.5	26.3	88.87	-1,802.4	-1,948.4	874.5	819.2	55.33	15.807
11,970.0	9,767.3	11,912.4	9,775.9	32.8	26.6	88.87	-1,872.4	-1,949.0	874.6	818.6	55.95	15.633
12,000.0	9,767.3	11,942.4	9,775.9	32.9	26.7	88.87	-1,902.4	-1,949.3	874.6	818.4	56.21	15.558
12,065.0	9,767.3	12,007.4	9,776.0	33.1	27.0	88.87	-1,967.4	-1,949.9	874.6	817.8	56.80	15.397
12,100.0	9,767.4	12,042.4	9,776.0	33.2	27.1	88.87	-2,002.4	-1,950.2	874.6	817.5	57.13	15.310
12,160.0	9,767.4	12,102.4	9,776.0	33.5	27.4	88.87	-2,062.4	-1,950.7	874.7	817.0	57.69	15.162
12,200.0	9,767.4	12,142.4	9,776.0	33.6	27.5	88.87	-2,102.4	-1,951.1	874.7	816.6	58.07	15.064
12,255.0	9,767.5	12,197.4	9,776.1	33.9	27.8	88.87	-2,157.4	-1,951.5	874.7	816.1	58.59	14.929
12,300.0	9,767.5	12,242.4	9,776.1	34.0	28.0	88.87	-2,202.4	-1,951.9	874.8	815.7	59.03	14.819
12,350.0	9,767.5	12,292.4	9,776.1	34.2	28.2	88.86	-2,252.4	-1,952.4	874.8	815.3	59.52	14.697
12,400.0	9,767.6	12,342.4	9,776.1	34.5	28.4	88.86	-2,302.4	-1,952.8	874.8	814.8	60.02	14.576
12,445.0	9,767.6	12,387.4	9,776.2	34.6	28.6	88.86	-2,347.4	-1,953.2	874.8	814.4	60.47	14.468
12,500.0	9,767.6	12,442.4	9,776.2	34.9	28.9	88.86	-2,402.4	-1,953.7	874.9	813.9	61.03	14.336
12,540.0	9,767.7	12,482.4	9,776.2	35.1	29.1	88.86	-2,442.4	-1,954.1	874.9	813.5	61.44	14.241
12,600.0	9,767.7	12,542.4	9,776.2	35.3	29.4	88.86	-2,502.3	-1,954.6	874.9	812.9	62.06	14.099
12,635.0	9,767.7	12,577.4	9,776.3	35.5	29.5	88.86	-2,537.3	-1,954.9	875.0	812.5	62.42	14.017
12,700.0	9,767.8	12,642.4	9,776.3	35.8	29.9	88.86	-2,602.3	-1,955.5	875.0	811.9	63.11	13.865
12,730.0	9,767.8	12,672.4	9,776.3	35.9	30.0	88.86	-2,632.3	-1,955.8	875.0	811.6	63.43	13.796
12,800.0	9,767.9	12,742.4	9,776.3	36.2	30.4	88.86	-2,702.3	-1,956.4	875.1	810.9	64.18	13.635
12,825.0	9,767.9	12,767.4	9,776.4	36.3	30.5	88.86	-2,727.3	-1,956.6	875.1	810.6	64.45	13.578
12,900.0	9,767.9	12,842.4	9,776.4	36.7	30.9	88.86	-2,802.3	-1,957.3	875.1	809.9	65.26	13.409
12,920.0	9,767.9	12,862.4	9,776.4	36.8	31.0	88.86	-2,822.3	-1,957.4	875.1	809.6	65.48	13.364
13,000.0	9,768.0	12,942.4	9,776.5	37.2	31.4	88.86	-2,902.3	-1,958.1	875.2	808.8	66.37	13.187
13,015.0	9,768.0	12,957.4	9,776.5	37.2	31.5	88.86	-2,917.3	-1,958.3	875.2	808.7	66.54	13.154
13,100.0	9,768.1	13,042.4	9,776.5	37.7	32.0	88.86	-3,002.3	-1,959.0	875.2	807.7	67.49	12.969
13,110.0	9,768.1	13,052.4	9,776.5	37.7	32.0	88.86	-3,012.3	-1,959.1	875.2	807.6	67.60	12.947
13,200.0	9,768.2	13,142.4	9,776.6	38.2	32.5	88.85	-3,102.3	-1,959.9	875.3	806.7	68.62	12.755
13,205.0	9,768.2	13,147.4	9,776.6	38.2	32.5	88.85	-3,107.3	-1,960.0	875.3	806.6	68.68	12.744
13,300.0	9,768.2	13,242.4	9,776.6	38.7	33.1	88.85	-3,202.3	-1,960.8	875.4	805.6	69.78	12.545
13,395.0	9,768.3	13,337.4	9,776.7	39.2	33.6	88.85	-3,297.3	-1,961.6	875.4	804.5	70.88	12.350
13,400.0	9,768.3	13,342.4	9,776.7	39.2	33.6	88.85	-3,302.3	-1,961.7	875.4	804.5	70.94	12.340
13,490.0	9,768.4	13,432.4	9,776.7	39.7	34.2	88.85	-3,392.3	-1,962.5	875.5	803.5	72.00	12.159
13,500.0	9,768.4	13,442.4	9,776.7	39.7	34.2	88.85	-3,402.3	-1,962.6	875.5	803.4	72.12	12.139
13,585.0	9,768.4	13,527.4	9,776.8	40.2	34.7	88.85	-3,487.3	-1,963.3	875.5	802.4	73.13	11.972
13,600.0	9,768.4	13,542.4	9,776.8	40.2	34.8	88.85	-3,502.3	-1,963.5	875.5	802.2	73.31	11.943
13,680.0	9,768.5	13,622.4	9,776.8	40.7	35.3	88.85	-3,582.3	-1,964.2	875.6	801.3	74.27	11.789
13,700.0	9,768.5	13,642.4	9,776.8	40.8	35.4	88.85	-3,602.3	-1,964.3	875.6	801.1	74.51	11.751
13,775.0	9,768.6	13,717.4	9,776.9	41.2	35.9	88.85	-3,677.3	-1,965.0	875.6	800.2	75.42	11.610
13,800.0	9,768.6	13,742.4	9,776.9	41.3	36.0	88.85	-3,702.3	-1,965.2	875.7	799.9	75.73	11.563
13,870.0	9,768.6	13,812.4	9,776.9	41.7	36.5	88.85	-3,772.3	-1,965.9	875.7	799.1	76.59	11.434
13,900.0	9,768.7	13,842.4	9,776.9	41.9	36.6	88.85	-3,802.3	-1,966.1	875.7	798.8	76.95	11.380
13,965.0	9,768.7	13,907.4	9,777.0	42.2	37.0	88.85	-3,867.3	-1,966.7	875.7	798.0	77.76	11.263
14,000.0	9,768.7	13,942.4	9,777.0	42.4	37.3	88.85	-3,902.3	-1,967.0	875.8	797.6	78.19	11.201
14,060.0	9,768.8	14,002.4	9,777.0	42.8	37.6	88.84	-3,962.3	-1,967.5	875.8	796.9	78.94	11.095
14,100.0	9,768.8	14,042.4	9,777.0	43.0	37.9	88.84	-4,002.3	-1,967.9	875.8	796.4	79.44	11.026
14,155.0	9,768.8	14,097.4	9,777.1	43.3	38.2	88.84	-4,057.3	-1,968.4	875.9	795.7	80.13	10.931
14,200.0	9,768.9	14,142.4	9,777.1	43.6	38.5	88.84	-4,102.3	-1,968.8	875.9	795.2	80.69	10.855

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #804H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9292-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation	Separation Factor	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)		
14,250.0	9,768.9	14,192.4	9,777.1	43.9	38.8	88.84	-4,152.3	-1,969.2	875.9	794.6	81.32	10.771
14,300.0	9,768.9	14,242.4	9,777.1	44.2	39.2	88.84	-4,202.3	-1,969.7	875.9	794.0	81.96	10.688
14,345.0	9,769.0	14,287.4	9,777.2	44.4	39.5	88.84	-4,247.3	-1,970.1	876.0	793.4	82.53	10.614
14,400.0	9,769.0	14,342.4	9,777.2	44.7	39.8	88.84	-4,302.3	-1,970.5	876.0	792.8	83.23	10.525
14,440.0	9,769.0	14,382.4	9,777.2	45.0	40.1	88.84	-4,342.3	-1,970.9	876.0	792.3	83.74	10.461
14,500.0	9,769.1	14,442.4	9,777.2	45.3	40.5	88.84	-4,402.3	-1,971.4	876.1	791.6	84.51	10.366
14,535.0	9,769.1	14,477.4	9,777.3	45.5	40.7	88.84	-4,437.3	-1,971.7	876.1	791.1	84.96	10.311
14,600.0	9,769.2	14,542.4	9,777.3	45.9	41.1	88.84	-4,502.3	-1,972.3	876.1	790.3	85.80	10.211
14,630.0	9,769.2	14,572.4	9,777.3	46.1	41.3	88.84	-4,532.3	-1,972.6	876.1	790.0	86.19	10.165
14,700.0	9,769.2	14,642.4	9,777.3	46.5	41.8	88.84	-4,602.3	-1,973.2	876.2	789.1	87.10	10.060
14,725.0	9,769.3	14,667.4	9,777.4	46.7	41.9	88.84	-4,627.3	-1,973.4	876.2	788.8	87.43	10.022
14,800.0	9,769.3	14,742.4	9,777.4	47.1	42.4	88.84	-4,702.3	-1,974.1	876.2	787.8	88.40	9.912
14,820.0	9,769.3	14,762.4	9,777.4	47.2	42.6	88.84	-4,722.3	-1,974.3	876.3	787.6	88.67	9.883
14,900.0	9,769.4	14,842.4	9,777.5	47.7	43.1	88.83	-4,802.3	-1,975.0	876.3	786.6	89.72	9.768
14,915.0	9,769.4	14,857.4	9,777.5	47.8	43.2	88.83	-4,817.3	-1,975.1	876.3	786.4	89.91	9.746
15,000.0	9,769.5	14,942.4	9,777.5	48.4	43.8	88.83	-4,902.3	-1,975.9	876.4	785.3	91.03	9.627
15,010.0	9,769.5	14,952.4	9,777.5	48.4	43.8	88.83	-4,912.3	-1,976.0	876.4	785.2	91.17	9.613
15,100.0	9,769.5	15,042.4	9,777.6	49.0	44.4	88.83	-5,002.2	-1,976.7	876.4	784.1	92.36	9.489
15,105.0	9,769.5	15,047.4	9,777.6	49.0	44.5	88.83	-5,007.2	-1,976.8	876.4	784.0	92.43	9.483
15,200.0	9,769.6	15,142.4	9,777.6	49.6	45.1	88.83	-5,102.2	-1,977.6	876.5	782.8	93.69	9.355
15,295.0	9,769.7	15,237.4	9,777.7	50.2	45.8	88.83	-5,197.2	-1,978.5	876.5	781.6	94.96	9.231
15,300.0	9,769.7	15,242.4	9,777.7	50.2	45.8	88.83	-5,202.2	-1,978.5	876.5	781.5	95.03	9.224
15,390.0	9,769.7	15,332.4	9,777.7	50.8	46.4	88.83	-5,292.2	-1,979.3	876.6	780.4	96.23	9.109
15,400.0	9,769.7	15,342.4	9,777.7	50.9	46.5	88.83	-5,302.2	-1,979.4	876.6	780.2	96.37	9.096
15,485.0	9,769.8	15,427.4	9,777.8	51.4	47.1	88.83	-5,387.2	-1,980.2	876.7	779.1	97.51	8.990
15,500.0	9,769.8	15,442.4	9,777.8	51.5	47.2	88.83	-5,402.2	-1,980.3	876.7	778.9	97.72	8.971
15,580.0	9,769.9	15,522.4	9,777.8	52.0	47.7	88.83	-5,482.2	-1,981.0	876.7	777.9	98.80	8.874
15,600.0	9,769.9	15,542.4	9,777.8	52.1	47.9	88.83	-5,502.2	-1,981.2	876.7	777.7	99.07	8.850
15,675.0	9,769.9	15,617.4	9,777.9	52.6	48.4	88.82	-5,577.2	-1,981.8	876.8	776.7	100.09	8.760
15,700.0	9,770.0	15,642.4	9,777.9	52.8	48.5	88.82	-5,602.2	-1,982.1	876.8	776.4	100.43	8.731
15,770.0	9,770.0	15,712.4	9,777.9	53.2	49.0	88.82	-5,672.2	-1,982.7	876.8	775.4	101.38	8.649
15,800.0	9,770.0	15,742.4	9,777.9	53.4	49.2	88.82	-5,702.2	-1,983.0	876.8	775.0	101.79	8.614
15,865.0	9,770.1	15,807.4	9,778.0	53.8	49.7	88.82	-5,767.2	-1,983.5	876.9	774.2	102.68	8.540
15,900.0	9,770.1	15,842.4	9,778.0	54.1	49.9	88.82	-5,802.2	-1,983.8	876.9	773.7	103.16	8.501
15,960.0	9,770.1	15,902.4	9,778.0	54.5	50.3	88.82	-5,862.2	-1,984.4	876.9	773.0	103.98	8.434
16,000.0	9,770.2	15,942.4	9,778.0	54.7	50.6	88.82	-5,902.2	-1,984.7	877.0	772.4	104.53	8.390
16,055.0	9,770.2	15,997.4	9,778.1	55.1	51.0	88.82	-5,957.2	-1,985.2	877.0	771.7	105.28	8.330
16,100.0	9,770.2	16,042.4	9,778.1	55.4	51.3	88.82	-6,002.2	-1,985.6	877.0	771.1	105.90	8.281
16,150.0	9,770.3	16,092.4	9,778.1	55.7	51.7	88.82	-6,052.2	-1,986.1	877.0	770.5	106.59	8.228
16,200.0	9,770.3	16,142.4	9,778.1	56.0	52.0	88.82	-6,102.2	-1,986.5	877.1	769.8	107.28	8.175
16,245.0	9,770.4	16,187.4	9,778.2	56.3	52.3	88.82	-6,147.2	-1,986.9	877.1	769.2	107.91	8.128
16,300.0	9,770.4	16,242.4	9,778.2	56.7	52.7	88.82	-6,202.2	-1,987.4	877.1	768.5	108.67	8.072
16,340.0	9,770.4	16,282.4	9,778.2	57.0	53.0	88.82	-6,242.2	-1,987.7	877.2	767.9	109.22	8.031
16,400.0	9,770.5	16,342.4	9,778.2	57.4	53.4	88.82	-6,302.2	-1,988.3	877.2	767.1	110.06	7.971
16,435.0	9,770.5	16,377.4	9,778.3	57.6	53.7	88.82	-6,337.2	-1,988.6	877.2	766.7	110.54	7.936
16,500.0	9,770.5	16,442.4	9,778.3	58.0	54.1	88.82	-6,402.2	-1,989.2	877.3	765.8	111.45	7.872
16,530.0	9,770.6	16,472.4	9,778.3	58.2	54.4	88.81	-6,432.2	-1,989.4	877.3	765.4	111.86	7.842
16,600.0	9,770.6	16,542.4	9,778.3	58.7	54.9	88.81	-6,502.2	-1,990.0	877.3	764.5	112.84	7.775
16,625.0	9,770.6	16,567.4	9,778.4	58.9	55.0	88.81	-6,527.2	-1,990.3	877.3	764.1	113.19	7.751
16,700.0	9,770.7	16,642.4	9,778.4	59.4	55.6	88.81	-6,602.2	-1,990.9	877.4	763.1	114.24	7.680
16,720.0	9,770.7	16,662.4	9,778.4	59.5	55.7	88.81	-6,622.2	-1,991.1	877.4	762.9	114.52	7.661

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #804H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9292-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)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)
								+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation Factor
												Warning
16,800.0	9,770.8	16,742.4	9,778.5	60.0	56.3	88.81	88.81	-6,702.2	-1,991.8	877.4	761.8	7.588
16,815.0	9,770.8	16,757.4	9,778.5	60.1	56.4	88.81	88.81	-6,717.2	-1,991.9	877.4	761.6	7.574
16,900.0	9,770.8	16,842.4	9,778.5	60.7	57.0	88.81	88.81	-6,802.2	-1,992.7	877.5	760.4	7.497
16,910.0	9,770.8	16,852.4	9,778.5	60.8	57.1	88.81	88.81	-6,812.2	-1,992.8	877.5	760.3	7.488
17,000.0	9,770.9	16,942.4	9,778.6	61.4	57.7	88.81	88.81	-6,902.2	-1,993.6	877.6	759.1	7.408
17,005.0	9,770.9	16,947.4	9,778.6	61.4	57.7	88.81	88.81	-6,907.2	-1,993.6	877.6	759.0	7.404
17,100.0	9,771.0	17,042.4	9,778.6	62.1	58.4	88.81	88.81	-7,002.2	-1,994.5	877.6	757.7	7.322
17,195.0	9,771.0	17,137.4	9,778.7	62.7	59.1	88.81	88.81	-7,097.2	-1,995.3	877.7	756.5	7.241
17,200.0	9,771.0	17,142.4	9,778.7	62.7	59.1	88.81	88.81	-7,102.2	-1,995.4	877.7	756.4	7.237
17,290.0	9,771.1	17,232.4	9,778.7	63.4	59.8	88.81	88.81	-7,192.2	-1,996.2	877.7	755.2	7.162
17,300.0	9,771.1	17,242.4	9,778.7	63.4	59.9	88.81	88.81	-7,202.2	-1,996.2	877.7	755.0	7.154
17,385.0	9,771.2	17,327.4	9,778.8	64.0	60.5	88.80	88.80	-7,287.2	-1,997.0	877.8	753.9	7.085
17,400.0	9,771.2	17,342.4	9,778.8	64.1	60.6	88.80	88.80	-7,302.2	-1,997.1	877.8	753.7	7.073
17,480.0	9,771.2	17,422.4	9,778.8	64.7	61.2	88.80	88.80	-7,382.2	-1,997.8	877.8	752.6	7.009
17,500.0	9,771.3	17,442.4	9,778.8	64.8	61.3	88.80	88.80	-7,402.2	-1,998.0	877.8	752.3	6.993
17,575.0	9,771.3	17,517.4	9,778.9	65.3	61.8	88.80	88.80	-7,477.2	-1,998.7	877.9	751.3	6.934
17,600.0	9,771.3	17,542.4	9,778.9	65.5	62.0	88.80	88.80	-7,502.2	-1,998.9	877.9	751.0	6.915
17,670.0	9,771.4	17,612.4	9,778.9	66.0	62.5	88.80	88.80	-7,572.1	-1,999.5	877.9	750.0	6.861
17,700.0	9,771.4	17,642.4	9,778.9	66.2	62.7	88.80	88.80	-7,602.1	-1,999.8	878.0	749.6	6.839
17,765.0	9,771.5	17,707.4	9,779.0	66.6	63.2	88.80	88.80	-7,667.1	-2,000.4	878.0	748.7	6.790
17,800.0	9,771.5	17,742.4	9,779.0	66.9	63.5	88.80	88.80	-7,702.1	-2,000.7	878.0	748.2	6.764
17,860.0	9,771.5	17,802.4	9,779.0	67.3	63.9	88.80	88.80	-7,762.1	-2,001.2	878.1	747.4	6.720
17,900.0	9,771.6	17,842.4	9,779.0	67.6	64.2	88.80	88.80	-7,802.1	-2,001.6	878.1	746.8	6.691
17,955.0	9,771.6	17,897.4	9,779.1	68.0	64.6	88.80	88.80	-7,857.1	-2,002.0	878.1	746.1	6.651
18,000.0	9,771.6	17,942.4	9,779.1	68.3	64.9	88.80	88.80	-7,902.1	-2,002.4	878.1	745.5	6.619
18,050.0	9,771.7	17,992.4	9,779.1	68.6	65.3	88.80	88.80	-7,952.1	-2,002.9	878.2	744.8	6.584
18,100.0	9,771.7	18,042.4	9,779.1	69.0	65.6	88.80	88.80	-8,002.1	-2,003.3	878.2	744.1	6.549
18,145.0	9,771.7	18,087.4	9,779.2	69.3	66.0	88.80	88.80	-8,047.1	-2,003.7	878.2	743.5	6.517
18,200.0	9,771.8	18,142.4	9,779.2	69.7	66.4	88.79	88.79	-8,102.1	-2,004.2	878.3	742.7	6.480
18,240.0	9,771.8	18,182.4	9,779.2	69.9	66.7	88.79	88.79	-8,142.1	-2,004.6	878.3	742.2	6.452
18,300.0	9,771.8	18,242.4	9,779.2	70.4	67.1	88.79	88.79	-8,202.1	-2,005.1	878.3	741.3	6.412
18,335.0	9,771.9	18,277.4	9,779.3	70.6	67.4	88.79	88.79	-8,237.1	-2,005.4	878.3	740.9	6.389
18,400.0	9,771.9	18,342.4	9,779.3	71.1	67.8	88.79	88.79	-8,302.1	-2,006.0	878.4	740.0	6.346
18,430.0	9,771.9	18,372.4	9,779.3	71.3	68.1	88.79	88.79	-8,332.1	-2,006.3	878.4	739.5	6.326
18,500.0	9,772.0	18,442.4	9,779.4	71.8	68.6	88.79	88.79	-8,402.1	-2,006.9	878.4	738.6	6.281
18,525.0	9,772.0	18,467.4	9,779.4	71.9	68.7	88.79	88.79	-8,427.1	-2,007.1	878.5	738.2	6.265
18,600.0	9,772.1	18,542.4	9,779.4	72.5	69.3	88.79	88.79	-8,502.1	-2,007.8	878.5	737.2	6.217
18,620.0	9,772.1	18,562.4	9,779.4	72.6	69.4	88.79	88.79	-8,522.1	-2,007.9	878.5	736.9	6.204
18,700.0	9,772.1	18,642.4	9,779.5	73.2	70.0	88.79	88.79	-8,602.1	-2,008.6	878.6	735.8	6.154
18,715.0	9,772.1	18,657.4	9,779.5	73.3	70.1	88.79	88.79	-8,617.1	-2,008.8	878.6	735.6	6.145
18,800.0	9,772.2	18,742.4	9,779.5	73.9	70.8	88.79	88.79	-8,702.1	-2,009.5	878.6	734.4	6.093
18,810.0	9,772.2	18,752.4	9,779.5	74.0	70.8	88.79	88.79	-8,712.1	-2,009.6	878.6	734.3	6.087
18,900.0	9,772.3	18,842.4	9,779.6	74.6	71.5	88.79	88.79	-8,802.1	-2,010.4	878.7	733.0	6.033
18,905.0	9,772.3	18,847.4	9,779.6	74.6	71.5	88.79	88.79	-8,807.1	-2,010.5	878.7	733.0	6.030
19,000.0	9,772.3	18,942.4	9,779.6	75.3	72.2	88.79	88.79	-8,902.1	-2,011.3	878.7	731.6	5.974
19,095.0	9,772.4	19,037.4	9,779.7	76.0	72.9	88.78	88.78	-8,997.1	-2,012.1	878.8	730.3	5.918
19,100.0	9,772.4	19,042.4	9,779.7	76.0	73.0	88.78	88.78	-9,002.1	-2,012.2	878.8	730.2	5.916
19,190.0	9,772.5	19,132.4	9,779.7	76.7	73.6	88.78	88.78	-9,092.1	-2,013.0	878.9	729.0	5.864
19,200.0	9,772.5	19,142.4	9,779.7	76.7	73.7	88.78	88.78	-9,102.1	-2,013.1	878.9	728.8	5.859
19,285.0	9,772.6	19,227.4	9,779.8	77.3	74.3	88.78	88.78	-9,187.1	-2,013.8	878.9	727.7	5.811
19,300.0	9,772.6	19,242.4	9,779.8	77.4	74.4	88.78	88.78	-9,202.1	-2,014.0	878.9	727.5	5.803

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #804H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9292-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Rule Assigned:												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
19,380.0	9,772.6	19,322.4	9,779.8	78.0	75.0	88.78	88.78	-9,282.1	-2,014.7	879.0	726.3	152.63	5.759
19,400.0	9,772.6	19,342.4	9,779.8	78.2	75.2	88.78	88.78	-9,302.1	-2,014.8	879.0	726.1	152.92	5.748
19,475.0	9,772.7	19,417.4	9,779.9	78.7	75.7	88.78	88.78	-9,377.1	-2,015.5	879.0	725.0	154.02	5.707
19,500.0	9,772.7	19,442.4	9,779.9	78.9	75.9	88.78	88.78	-9,402.1	-2,015.7	879.0	724.7	154.38	5.694
19,570.0	9,772.8	19,512.4	9,779.9	79.4	76.4	88.78	88.78	-9,472.1	-2,016.4	879.1	723.7	155.40	5.657
19,600.0	9,772.8	19,542.4	9,779.9	79.6	76.6	88.78	88.78	-9,502.1	-2,016.6	879.1	723.3	155.84	5.641
19,665.0	9,772.8	19,607.4	9,780.0	80.0	77.1	88.78	88.78	-9,567.1	-2,017.2	879.1	722.3	156.79	5.607
19,700.0	9,772.9	19,642.4	9,780.0	80.3	77.4	88.78	88.78	-9,602.1	-2,017.5	879.2	721.9	157.30	5.589
19,760.0	9,772.9	19,702.4	9,780.0	80.7	77.8	88.78	88.78	-9,662.1	-2,018.0	879.2	721.0	158.18	5.558
19,800.0	9,772.9	19,742.4	9,780.0	81.0	78.1	88.78	88.78	-9,702.1	-2,018.4	879.2	720.5	158.76	5.538
19,855.0	9,773.0	19,797.4	9,780.1	81.4	78.5	88.77	88.77	-9,757.1	-2,018.9	879.2	719.7	159.57	5.510
19,900.0	9,773.0	19,842.4	9,780.1	81.7	78.9	88.77	88.77	-9,802.1	-2,019.3	879.3	719.0	160.23	5.488
19,950.0	9,773.0	19,892.4	9,780.1	82.1	79.2	88.77	88.77	-9,852.1	-2,019.7	879.3	718.3	160.96	5.463
20,000.0	9,773.1	19,942.4	9,780.1	82.5	79.6	88.77	88.77	-9,902.1	-2,020.2	879.3	717.6	161.69	5.438
20,045.0	9,773.1	19,987.4	9,780.2	82.8	79.9	88.77	88.77	-9,947.1	-2,020.6	879.4	717.0	162.35	5.416
20,100.0	9,773.1	20,042.4	9,780.2	83.2	80.3	88.77	88.77	-10,002.1	-2,021.0	879.4	716.2	163.16	5.390
20,140.0	9,773.2	20,082.4	9,780.2	83.5	80.6	88.77	88.77	-10,042.1	-2,021.4	879.4	715.7	163.74	5.371
20,200.0	9,773.2	20,142.4	9,780.2	83.9	81.1	88.77	88.77	-10,102.0	-2,021.9	879.5	714.8	164.62	5.342
20,235.0	9,773.2	20,177.4	9,780.3	84.1	81.3	88.77	88.77	-10,137.0	-2,022.2	879.5	714.3	165.14	5.326
20,300.0	9,773.3	20,242.4	9,780.3	84.6	81.8	88.77	88.77	-10,202.0	-2,022.8	879.5	713.4	166.09	5.295
20,330.0	9,773.3	20,272.4	9,780.3	84.8	82.0	88.77	88.77	-10,232.0	-2,023.1	879.5	713.0	166.53	5.281
20,400.0	9,773.4	20,342.4	9,780.4	85.3	82.6	88.77	88.77	-10,302.0	-2,023.7	879.6	712.0	167.56	5.249
20,425.0	9,773.4	20,367.4	9,780.4	85.5	82.8	88.77	88.77	-10,327.0	-2,023.9	879.6	711.7	167.93	5.238
20,500.0	9,773.4	20,442.4	9,780.4	86.1	83.3	88.77	88.77	-10,402.0	-2,024.6	879.6	710.6	169.03	5.204
20,520.0	9,773.4	20,462.4	9,780.4	86.2	83.5	88.77	88.77	-10,422.0	-2,024.8	879.6	710.3	169.32	5.195
20,600.0	9,773.5	20,542.4	9,780.5	86.8	84.0	88.77	88.77	-10,502.0	-2,025.5	879.7	709.2	170.50	5.159
20,615.0	9,773.5	20,557.4	9,780.5	86.9	84.2	88.77	88.77	-10,517.0	-2,025.6	879.7	709.0	170.72	5.153
20,700.0	9,773.6	20,642.4	9,780.5	87.5	84.8	88.76	88.76	-10,602.0	-2,026.4	879.7	707.8	171.97	5.116
20,710.0	9,773.6	20,652.4	9,780.5	87.6	84.9	88.76	88.76	-10,612.0	-2,026.5	879.8	707.6	172.12	5.111
20,800.0	9,773.6	20,742.4	9,780.6	88.2	85.5	88.76	88.76	-10,702.0	-2,027.2	879.8	706.4	173.45	5.073
20,805.0	9,773.7	20,747.4	9,780.6	88.3	85.6	88.76	88.76	-10,707.0	-2,027.3	879.8	706.3	173.52	5.070
20,900.0	9,773.7	20,842.4	9,780.6	89.0	86.3	88.76	88.76	-10,802.0	-2,028.1	879.9	704.9	174.92	5.030
20,995.0	9,773.8	20,937.4	9,780.7	89.6	87.0	88.76	88.76	-10,897.0	-2,029.0	879.9	703.6	176.32	4.990
21,000.0	9,773.8	20,942.4	9,780.7	89.7	87.0	88.76	88.76	-10,902.0	-2,029.0	879.9	703.5	176.39	4.988
21,090.0	9,773.9	21,032.4	9,780.7	90.3	87.7	88.76	88.76	-10,992.0	-2,029.8	880.0	702.3	177.72	4.951
21,100.0	9,773.9	21,042.4	9,780.7	90.4	87.8	88.76	88.76	-11,002.0	-2,029.9	880.0	702.1	177.87	4.947
21,185.0	9,773.9	21,127.4	9,780.8	91.0	88.4	88.76	88.76	-11,087.0	-2,030.7	880.0	700.9	179.13	4.913
21,200.0	9,773.9	21,142.4	9,780.8	91.1	88.5	88.76	88.76	-11,102.0	-2,030.8	880.0	700.7	179.35	4.907
21,280.0	9,774.0	21,222.4	9,780.8	91.7	89.1	88.76	88.76	-11,182.0	-2,031.5	880.1	699.6	180.53	4.875
21,300.0	9,774.0	21,242.4	9,780.8	91.9	89.3	88.76	88.76	-11,202.0	-2,031.7	880.1	699.3	180.82	4.867
21,375.0	9,774.1	21,317.4	9,780.9	92.4	89.8	88.76	88.76	-11,277.0	-2,032.3	880.1	698.2	181.93	4.838
21,400.0	9,774.1	21,342.4	9,780.9	92.6	90.0	88.76	88.76	-11,302.0	-2,032.6	880.2	697.9	182.30	4.828
21,470.0	9,774.1	21,412.4	9,780.9	93.1	90.5	88.76	88.76	-11,372.0	-2,033.2	880.2	696.9	183.34	4.801
21,500.0	9,774.2	21,442.4	9,780.9	93.3	90.7	88.76	88.76	-11,402.0	-2,033.5	880.2	696.4	183.78	4.790
21,565.0	9,774.2	21,507.4	9,781.0	93.8	91.2	88.75	88.75	-11,467.0	-2,034.0	880.3	695.5	184.74	4.765
21,600.0	9,774.2	21,542.4	9,781.0	94.1	91.5	88.75	88.75	-11,502.0	-2,034.3	880.3	695.0	185.26	4.752
21,660.0	9,774.3	21,602.4	9,781.0	94.5	91.9	88.75	88.75	-11,562.0	-2,034.9	880.3	694.2	186.15	4.729
21,700.0	9,774.3	21,642.4	9,781.0	94.8	92.2	88.75	88.75	-11,602.0	-2,035.2	880.3	693.6	186.74	4.714
21,755.0	9,774.3	21,697.4	9,781.1	95.2	92.7	88.75	88.75	-11,657.0	-2,035.7	880.4	692.8	187.56	4.694
21,800.0	9,774.4	21,742.4	9,781.1	95.5	93.0	88.75	88.75	-11,702.0	-2,036.1	880.4	692.2	188.22	4.677
21,850.0	9,774.4	21,792.4	9,781.1	95.9	93.4	88.75	88.75	-11,752.0	-2,036.6	880.4	691.5	188.96	4.659

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #804H - OWB - PWP1												Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9292-r.5 MWD+IFR1+MS				Rule Assigned:								Offset Well Error: 3.0 usft	
Reference Offset		Semi Major Axis		Offset Wellbore Centre		Distance				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)	Separation Factor	Warning
21,900.0	9,774.4	21,842.4	9,781.1	96.2	93.7	88.75	-11,802.0	-2,037.0	880.5	690.8	189.71	4.641	
21,945.0	9,774.5	21,887.4	9,781.2	96.6	94.1	88.75	-11,847.0	-2,037.4	880.5	690.1	190.37	4.625	
22,000.0	9,774.5	21,942.4	9,781.2	97.0	94.5	88.75	-11,902.0	-2,037.9	880.5	689.3	191.19	4.606	
22,040.0	9,774.5	21,982.4	9,781.2	97.3	94.8	88.75	-11,942.0	-2,038.2	880.5	688.8	191.78	4.591	
22,100.0	9,774.6	22,042.4	9,781.3	97.7	95.2	88.75	-12,002.0	-2,038.8	880.6	687.9	192.67	4.570	
22,135.0	9,774.6	22,077.4	9,781.3	98.0	95.5	88.75	-12,037.0	-2,039.1	880.6	687.4	193.19	4.558	
22,200.0	9,774.7	22,142.4	9,781.3	98.4	96.0	88.75	-12,102.0	-2,039.7	880.6	686.5	194.16	4.536	
22,230.0	9,774.7	22,172.4	9,781.3	98.7	96.2	88.75	-12,132.0	-2,039.9	880.7	686.1	194.60	4.525	
22,300.0	9,774.7	22,242.4	9,781.4	99.2	96.7	88.75	-12,202.0	-2,040.5	880.7	685.1	195.64	4.502	
22,325.0	9,774.8	22,267.4	9,781.4	99.4	96.9	88.75	-12,227.0	-2,040.8	880.7	684.7	196.01	4.493	
22,400.0	9,774.8	22,342.4	9,781.4	99.9	97.5	88.74	-12,302.0	-2,041.4	880.8	683.6	197.13	4.468	
22,420.0	9,774.8	22,362.4	9,781.4	100.1	97.6	88.74	-12,322.0	-2,041.6	880.8	683.3	197.42	4.461	
22,500.0	9,774.9	22,442.4	9,781.5	100.6	98.2	88.74	-12,402.0	-2,042.3	880.8	682.2	198.61	4.435	
22,515.0	9,774.9	22,457.4	9,781.5	100.8	98.3	88.74	-12,417.0	-2,042.4	880.8	682.0	198.84	4.430	
22,600.0	9,775.0	22,542.4	9,781.5	101.4	99.0	88.74	-12,502.0	-2,043.2	880.9	680.8	200.10	4.402	
22,610.0	9,775.0	22,552.4	9,781.5	101.5	99.0	88.74	-12,512.0	-2,043.3	880.9	680.6	200.25	4.399	
22,700.0	9,775.0	22,642.4	9,781.6	102.1	99.7	88.74	-12,601.9	-2,044.1	880.9	679.3	201.59	4.370	
22,705.0	9,775.0	22,647.4	9,781.6	102.2	99.8	88.74	-12,606.9	-2,044.1	880.9	679.3	201.66	4.368	
22,800.0	9,775.1	22,742.4	9,781.6	102.9	100.5	88.74	-12,701.9	-2,045.0	881.0	677.9	203.08	4.338	
22,895.0	9,775.2	22,837.4	9,781.7	103.6	101.2	88.74	-12,796.9	-2,045.8	881.1	676.6	204.49	4.309	
22,900.0	9,775.2	22,842.4	9,781.7	103.6	101.2	88.74	-12,801.9	-2,045.9	881.1	676.5	204.56	4.307	
22,990.0	9,775.2	22,932.4	9,781.7	104.3	101.9	88.74	-12,891.9	-2,046.7	881.1	675.2	205.90	4.279	
23,000.0	9,775.2	22,942.4	9,781.7	104.3	102.0	88.74	-12,901.9	-2,046.7	881.1	675.1	206.05	4.276	
23,085.0	9,775.3	23,027.4	9,781.8	105.0	102.6	88.74	-12,986.9	-2,047.5	881.2	673.8	207.32	4.250	
23,100.0	9,775.3	23,042.4	9,781.8	105.1	102.7	88.74	-13,001.9	-2,047.6	881.2	673.6	207.54	4.246	
23,180.0	9,775.4	23,122.4	9,781.8	105.7	103.3	88.74	-13,081.9	-2,048.3	881.2	672.5	208.74	4.222	
23,200.0	9,775.4	23,142.4	9,781.8	105.8	103.5	88.73	-13,101.9	-2,048.5	881.2	672.2	209.03	4.216	
23,275.0	9,775.4	23,217.4	9,781.9	106.4	104.0	88.73	-13,176.9	-2,049.2	881.3	671.1	210.15	4.194	
23,300.0	9,775.5	23,242.4	9,781.9	106.5	104.2	88.73	-13,201.9	-2,049.4	881.3	670.8	210.52	4.186	
23,370.0	9,775.5	23,312.4	9,781.9	107.1	104.7	88.73	-13,271.9	-2,050.0	881.3	669.8	211.57	4.166	
23,400.0	9,775.5	23,342.4	9,781.9	107.3	105.0	88.73	-13,301.9	-2,050.3	881.4	669.3	212.02	4.157	
23,465.0	9,775.6	23,407.4	9,782.0	107.8	105.5	88.73	-13,366.9	-2,050.9	881.4	668.4	212.99	4.138	
23,500.0	9,775.6	23,442.4	9,782.0	108.0	105.7	88.73	-13,401.9	-2,051.2	881.4	667.9	213.51	4.128	
23,560.0	9,775.6	23,502.4	9,782.0	108.5	106.2	88.73	-13,461.9	-2,051.7	881.4	667.0	214.40	4.111	
23,600.0	9,775.7	23,542.4	9,782.0	108.8	106.5	88.73	-13,501.9	-2,052.1	881.5	666.5	215.00	4.100	
23,655.0	9,775.7	23,597.4	9,782.1	109.2	106.9	88.73	-13,556.9	-2,052.5	881.5	665.7	215.82	4.084	
23,700.0	9,775.7	23,642.4	9,782.1	109.5	107.2	88.73	-13,601.9	-2,052.9	881.5	665.0	216.49	4.072	
23,750.0	9,775.8	23,692.4	9,782.1	109.9	107.6	88.73	-13,651.9	-2,053.4	881.6	664.3	217.24	4.058	
23,800.0	9,775.8	23,742.4	9,782.1	110.2	108.0	88.73	-13,701.9	-2,053.8	881.6	663.6	217.99	4.044	
23,845.0	9,775.9	23,787.4	9,782.2	110.6	108.3	88.73	-13,746.9	-2,054.2	881.6	663.0	218.66	4.032	
23,900.0	9,775.9	23,842.4	9,782.2	111.0	108.7	88.73	-13,801.9	-2,054.7	881.6	662.2	219.48	4.017	
23,940.0	9,775.9	23,882.4	9,782.2	111.3	109.0	88.73	-13,841.9	-2,055.1	881.7	661.6	220.08	4.006	
24,000.0	9,776.0	23,942.4	9,782.3	111.7	109.5	88.73	-13,901.9	-2,055.6	881.7	660.7	220.97	3.990	
24,035.0	9,776.0	23,977.4	9,782.3	112.0	109.7	88.73	-13,936.9	-2,055.9	881.7	660.2	221.50	3.981	
24,100.0	9,776.0	24,042.4	9,782.3	112.5	110.2	88.72	-14,001.9	-2,056.5	881.8	659.3	222.47	3.964	
24,130.0	9,776.1	24,072.4	9,782.3	112.7	110.5	88.72	-14,031.9	-2,056.8	881.8	658.9	222.92	3.956	
24,200.0	9,776.1	24,142.4	9,782.4	113.2	111.0	88.72	-14,101.9	-2,057.4	881.8	657.9	223.96	3.937	
24,225.0	9,776.1	24,167.4	9,782.4	113.4	111.2	88.72	-14,126.9	-2,057.6	881.8	657.5	224.34	3.931	
24,300.0	9,776.2	24,242.4	9,782.4	113.9	111.7	88.72	-14,201.9	-2,058.3	881.9	656.4	225.46	3.912	
24,320.0	9,776.2	24,262.4	9,782.4	114.1	111.9	88.72	-14,221.9	-2,058.4	881.9	656.1	225.76	3.906	
24,400.0	9,776.3	24,342.4	9,782.5	114.7	112.5	88.72	-14,301.9	-2,059.1	881.9	655.0	226.96	3.886	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #804H - OWB - PWP1													Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9292-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Rule Assigned: Distance					
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	
24,415.0	9,776.3	24,357.4	9,782.5	114.8	112.6	88.72	-14,316.9	-2,059.3	882.0	654.8	227.18	3.882		
24,500.0	9,776.3	24,442.4	9,782.5	115.4	113.2	88.72	-14,401.9	-2,060.0	882.0	653.6	228.45	3.861		
24,510.0	9,776.3	24,452.4	9,782.5	115.5	113.3	88.72	-14,411.9	-2,060.1	882.0	653.4	228.60	3.858		
24,600.0	9,776.4	24,542.4	9,782.6	116.2	114.0	88.72	-14,501.9	-2,060.9	882.1	652.1	229.95	3.836		
24,605.0	9,776.4	24,547.4	9,782.6	116.2	114.0	88.72	-14,506.9	-2,061.0	882.1	652.0	230.02	3.835		
24,700.0	9,776.5	24,642.4	9,782.6	116.9	114.7	88.72	-14,601.9	-2,061.8	882.1	650.7	231.45	3.811		
24,795.0	9,776.5	24,737.4	9,782.7	117.6	115.5	88.72	-14,696.9	-2,062.6	882.2	649.3	232.87	3.788		
24,800.0	9,776.5	24,742.4	9,782.7	117.6	115.5	88.72	-14,701.9	-2,062.7	882.2	649.2	232.94	3.787		
24,890.0	9,776.6	24,832.4	9,782.7	118.3	116.2	88.71	-14,791.9	-2,063.5	882.2	647.9	234.29	3.766		
24,900.0	9,776.6	24,842.4	9,782.7	118.4	116.2	88.71	-14,801.9	-2,063.6	882.2	647.8	234.44	3.763		
24,985.0	9,776.7	24,927.4	9,782.8	119.0	116.9	88.71	-14,886.9	-2,064.3	882.3	646.6	235.72	3.743		
25,000.0	9,776.7	24,942.4	9,782.8	119.1	117.0	88.71	-14,901.9	-2,064.5	882.3	646.4	235.94	3.739		
25,080.0	9,776.7	25,022.4	9,782.8	119.7	117.6	88.71	-14,981.9	-2,065.2	882.4	645.2	237.14	3.721		
25,100.0	9,776.8	25,042.4	9,782.8	119.9	117.8	88.71	-15,001.9	-2,065.3	882.4	644.9	237.44	3.716		
25,175.0	9,776.8	25,117.4	9,782.9	120.4	118.3	88.71	-15,076.9	-2,066.0	882.4	643.8	238.56	3.699		
25,200.0	9,776.8	25,142.4	9,782.9	120.6	118.5	88.71	-15,101.8	-2,066.2	882.4	643.5	238.94	3.693		
25,270.0	9,776.9	25,212.4	9,782.9	121.1	119.0	88.71	-15,171.8	-2,066.9	882.5	642.5	239.99	3.677		
25,300.6	9,776.9	25,243.0	9,782.9	121.4	119.3	88.71	-15,202.5	-2,067.1	882.5	642.0	240.45	3.670		
25,365.0	9,777.0	25,307.4	9,783.0	121.8	119.8	88.71	-15,266.8	-2,067.7	882.5	641.1	241.41	3.656		
25,400.0	9,777.0	25,342.4	9,783.0	122.1	120.0	88.71	-15,301.8	-2,068.0	882.5	640.6	241.94	3.648		
25,400.1	9,777.0	25,342.5	9,783.0	122.1	120.0	88.71	-15,301.9	-2,068.0	882.5	640.6	241.94	3.648		
25,430.7	9,777.0	25,359.2	9,783.0	122.3	120.1	88.71	-15,318.6	-2,068.2	882.7	640.4	242.30	3.643 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 WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - LEONARDO BKL FEDERAL COM #1 - OWB - AWP													Offset Site Error: 0.0 usft	
Survey Program: 250-INC-ONLY				Rule Assigned:					Offset Well Error: 10.0 usft					
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		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)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
10,300.0	9,766.1	9,735.6	9,729.4	28.5	286.7	-84.52	-1,493.6	-958.6	1,287.5	979.8	307.75	4.184		
10,355.0	9,766.1	9,736.0	9,729.9	28.6	286.7	-84.73	-1,493.6	-958.6	1,232.7	924.9	307.82	4.005		
10,400.0	9,766.1	9,736.4	9,730.2	28.7	286.7	-84.91	-1,493.6	-958.6	1,187.9	880.0	307.88	3.858		
10,450.0	9,766.2	9,736.8	9,730.6	28.8	286.7	-85.11	-1,493.6	-958.6	1,138.2	830.2	307.95	3.696		
10,500.0	9,766.2	9,737.1	9,731.0	28.8	286.7	-85.31	-1,493.6	-958.6	1,088.4	780.4	308.02	3.534		
10,545.0	9,766.2	9,737.5	9,731.4	28.9	286.8	-85.49	-1,493.6	-958.6	1,043.7	735.6	308.10	3.387		
10,600.0	9,766.3	9,737.9	9,731.8	29.0	286.8	-85.71	-1,493.6	-958.6	989.0	680.8	308.20	3.209		
10,640.0	9,766.3	9,738.3	9,732.1	29.1	286.8	-85.88	-1,493.6	-958.6	949.3	641.0	308.27	3.079		
10,700.0	9,766.3	9,738.8	9,732.6	29.2	286.8	-86.12	-1,493.6	-958.6	889.7	581.3	308.40	2.885		
10,735.0	9,766.4	9,739.0	9,732.9	29.2	286.8	-86.27	-1,493.6	-958.6	855.0	546.6	308.48	2.772		
10,800.0	9,766.4	9,739.6	9,733.5	29.4	286.8	-86.54	-1,493.6	-958.6	790.7	482.0	308.65	2.562		
10,830.0	9,766.4	9,739.8	9,733.7	29.4	286.8	-86.66	-1,493.6	-958.6	761.0	452.2	308.74	2.465		
10,900.0	9,766.5	9,740.4	9,734.3	29.6	286.8	-86.96	-1,493.6	-958.6	691.8	382.9	308.96	2.239		
10,925.0	9,766.5	9,740.6	9,734.5	29.6	286.8	-87.07	-1,493.6	-958.6	667.2	358.1	309.06	2.159		
11,000.0	9,766.6	9,741.3	9,735.1	29.8	286.9	-87.39	-1,493.6	-958.6	593.4	284.0	309.37	1.918 Advise and Monitor		
11,020.0	9,766.6	9,741.4	9,735.3	29.9	286.9	-87.47	-1,493.6	-958.6	573.8	264.3	309.47	1.854 Advise and Monitor		
11,100.0	9,766.6	9,742.1	9,736.0	30.0	286.9	-87.82	-1,493.6	-958.6	495.6	185.7	309.93	1.599 Advise and Monitor		
11,115.0	9,766.6	9,742.2	9,736.1	30.1	286.9	-87.89	-1,493.6	-958.6	481.0	171.0	310.03	1.551 Advise and Monitor		
11,200.0	9,766.7	9,743.0	9,736.9	30.3	286.9	-88.26	-1,493.6	-958.6	398.9	88.1	310.74	1.284 Advise and Monitor		
11,210.0	9,766.7	9,743.1	9,736.9	30.3	286.9	-88.31	-1,493.6	-958.6	389.3	78.4	310.85	1.252 Advise and Monitor		
11,300.0	9,766.8	9,743.9	9,737.7	30.6	286.9	-88.71	-1,493.6	-958.6	304.3	-7.7	312.03	0.975 Advise and Monitor		
11,305.0	9,766.8	9,743.9	9,737.8	30.6	286.9	-88.73	-1,493.6	-958.6	299.6	-12.5	312.11	0.960 Advise and Monitor		
11,400.0	9,766.8	9,744.8	9,738.6	30.9	287.0	-89.16	-1,493.6	-958.6	214.6	-99.6	314.23	0.683 Advise and Monitor		
11,495.0	9,766.9	9,745.6	9,739.5	31.1	287.0	-89.60	-1,493.7	-958.6	142.8	-174.6	317.43	0.450 Advise and Monitor		
11,500.0	9,766.9	9,745.7	9,739.5	31.2	287.0	-89.62	-1,493.7	-958.6	139.8	-177.8	317.58	0.440 Advise and Monitor		
11,582.6	9,767.0	9,746.4	9,740.3	31.4	287.0	-90.00	-1,493.7	-958.6	112.8	-204.0	316.80	0.356 Advise and Monitor, CC, ES, SF		
11,590.0	9,767.0	9,746.5	9,740.4	31.4	287.0	-90.04	-1,493.7	-958.6	113.1	-203.2	316.26	0.358 Advise and Monitor		
11,600.0	9,767.0	9,746.6	9,740.5	31.5	287.0	-90.09	-1,493.7	-958.6	114.2	-201.3	315.44	0.362 Advise and Monitor		
11,685.0	9,767.1	9,747.4	9,741.2	31.8	287.0	-90.49	-1,493.7	-958.6	152.4	-155.9	308.21	0.494 Advise and Monitor		
11,700.0	9,767.1	9,747.5	9,741.4	31.8	287.1	-90.56	-1,493.7	-958.6	162.8	-144.6	307.42	0.530 Advise and Monitor		
11,780.0	9,767.1	9,748.3	9,742.1	32.1	287.1	-90.94	-1,493.7	-958.6	227.4	-78.0	305.41	0.744 Advise and Monitor		
11,800.0	9,767.1	9,748.5	9,742.3	32.1	287.1	-91.04	-1,493.7	-958.6	244.9	-60.3	305.25	0.802 Advise and Monitor		
11,875.0	9,767.2	9,749.2	9,743.0	32.4	287.1	-91.40	-1,493.7	-958.6	313.4	8.3	305.13	1.027 Advise and Monitor		
11,900.0	9,767.2	9,749.4	9,743.3	32.5	287.1	-91.52	-1,493.7	-958.6	336.8	31.7	305.18	1.104 Advise and Monitor		
11,970.0	9,767.3	9,750.1	9,744.0	32.8	287.1	-91.87	-1,493.7	-958.6	403.5	98.1	305.37	1.321 Advise and Monitor		
12,000.0	9,767.3	9,750.4	9,744.3	32.9	287.1	-92.02	-1,493.7	-958.6	432.4	126.9	305.47	1.415 Advise and Monitor		
12,065.0	9,767.3	9,751.0	9,744.9	33.1	287.2	-92.34	-1,493.7	-958.6	495.4	189.7	305.68	1.621 Advise and Monitor		
12,100.0	9,767.4	9,751.4	9,745.2	33.2	287.2	-92.51	-1,493.7	-958.6	529.5	223.8	305.78	1.732 Advise and Monitor		
12,160.0	9,767.4	9,752.0	9,745.8	33.5	287.2	-92.82	-1,493.7	-958.6	588.3	282.3	305.96	1.923 Advise and Monitor		
12,200.0	9,767.4	9,752.4	9,746.2	33.6	287.2	-93.02	-1,493.7	-958.6	627.6	321.5	306.07	2.050		
12,255.0	9,767.5	9,752.9	9,746.8	33.9	287.2	-93.30	-1,493.7	-958.6	681.8	375.6	306.22	2.226		
12,300.0	9,767.5	9,753.4	9,747.2	34.0	287.2	-93.53	-1,493.7	-958.6	726.2	419.9	306.33	2.371		
12,350.0	9,767.5	9,753.9	9,747.8	34.2	287.2	-93.79	-1,493.7	-958.6	775.6	469.2	306.44	2.531		
12,400.0	9,767.6	9,754.4	9,748.3	34.5	287.3	-94.05	-1,493.7	-958.6	825.1	518.6	306.55	2.692		
12,445.0	9,767.6	9,754.9	9,748.7	34.6	287.3	-94.29	-1,493.7	-958.6	869.7	563.1	306.64	2.836		
12,500.0	9,767.6	9,755.5	9,749.3	34.9	287.3	-94.58	-1,493.7	-958.6	924.3	617.5	306.75	3.013		
12,540.0	9,767.7	9,755.9	9,749.7	35.1	287.3	-94.79	-1,493.7	-958.6	964.0	657.2	306.83	3.142		
12,600.0	9,767.7	9,756.5	9,750.4	35.3	287.3	-95.11	-1,493.7	-958.6	1,023.6	716.7	306.94	3.335		
12,635.0	9,767.7	9,756.9	9,750.8	35.5	287.3	-95.30	-1,493.8	-958.6	1,058.4	751.4	307.00	3.448		
12,700.0	9,767.8	9,757.6	9,751.5	35.8	287.4	-95.66	-1,493.8	-958.6	1,123.0	815.9	307.11	3.657		
12,730.0	9,767.8	9,757.9	9,751.8	35.9	287.4	-95.82	-1,493.8	-958.6	1,152.9	845.7	307.16	3.753		

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - LEONARDO BKL FEDERAL COM #1 - OWB - AWP												Offset Site Error: 0.0 usft	
Survey Program: 250-INC-ONLY												Offset Well Error: 10.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance				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)	Separation Factor	
12,800.0	9,767.9	9,758.7	9,752.5	36.2	287.4	-96.20	-1,493.8	-958.6	1,222.6	915.3	307.27	3.979	
12,825.0	9,767.9	9,759.0	9,752.8	36.3	287.4	-96.34	-1,493.8	-958.6	1,247.5	940.1	307.31	4.059	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - WHITE CITY 21 25 27 FEDERAL COM #6H - OWB - AWP												Offset Site Error: 0.0 usft	
Survey Program: 430-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)			
6,460.0	6,328.7	6,343.9	6,339.1	25.5	26.2	-12.02	664.0	-2,309.5	1,310.3	1,261.0	49.35	26.554	
6,500.0	6,368.3	6,380.2	6,375.4	25.7	26.4	-12.16	661.5	-2,309.5	1,303.9	1,254.2	49.66	26.258	
6,555.0	6,422.7	6,430.9	6,425.9	25.9	26.5	-12.32	658.5	-2,309.5	1,296.0	1,246.0	50.07	25.886	
6,600.0	6,467.4	6,476.1	6,471.1	26.1	26.7	-12.46	656.0	-2,309.6	1,290.4	1,240.0	50.40	25.603	
6,650.0	6,517.2	6,526.8	6,521.6	26.3	26.8	-12.62	653.0	-2,309.6	1,285.0	1,234.2	50.76	25.317	
6,700.0	6,567.0	6,581.1	6,575.9	26.5	27.0	-12.78	649.8	-2,309.6	1,280.3	1,229.2	51.11	25.050	
6,745.0	6,611.9	6,628.7	6,623.4	26.7	27.1	-12.91	647.2	-2,309.3	1,276.7	1,225.2	51.41	24.833	
6,800.0	6,666.8	6,681.9	6,676.6	26.9	27.3	-13.04	644.4	-2,309.0	1,273.1	1,221.4	51.78	24.586	
6,840.0	6,706.8	6,720.7	6,715.3	27.0	27.4	-13.13	642.5	-2,308.8	1,271.3	1,219.3	52.02	24.436	
6,900.0	6,766.8	6,779.0	6,773.5	27.2	27.6	-13.26	639.7	-2,308.6	1,269.6	1,217.2	52.39	24.235	
6,918.2	6,785.0	6,796.7	6,791.2	27.2	27.7	-80.82	639.0	-2,308.5	1,269.3	1,216.9	52.46	24.194	
6,935.0	6,801.8	6,808.0	6,802.5	27.2	27.7	-80.84	638.5	-2,308.4	1,269.1	1,216.6	52.53	24.162	
7,000.0	6,866.8	6,866.1	6,860.6	27.2	27.9	-80.93	636.6	-2,308.4	1,268.8	1,216.0	52.76	24.047	
7,008.6	6,875.4	6,873.3	6,867.7	27.2	27.9	-80.93	636.5	-2,308.4	1,268.8	1,216.0	52.79	24.032 CC	
7,030.0	6,896.8	6,890.9	6,885.4	27.2	28.0	-80.95	636.1	-2,308.5	1,268.8	1,215.9	52.87	23.997 ES	
7,100.0	6,966.8	6,957.0	6,951.5	27.2	28.2	-80.98	635.4	-2,309.0	1,269.2	1,216.0	53.13	23.888	
7,125.0	6,991.8	6,981.4	6,975.8	27.2	28.3	-81.00	635.1	-2,309.1	1,269.3	1,216.1	53.22	23.850	
7,200.0	7,066.8	7,033.0	7,027.4	27.3	28.4	-80.97	635.8	-2,309.7	1,270.4	1,216.9	53.49	23.751	
7,220.0	7,086.8	7,044.1	7,038.5	27.3	28.5	-80.94	636.5	-2,309.9	1,270.9	1,217.4	53.56	23.731	
7,300.0	7,166.8	7,105.2	7,099.0	27.3	28.7	-80.58	644.7	-2,311.0	1,274.1	1,220.3	53.82	23.674	
7,315.0	7,181.8	7,117.0	7,110.5	27.3	28.7	-80.47	647.3	-2,311.2	1,274.8	1,221.0	53.87	23.666 SF	
7,400.0	7,266.8	7,160.0	7,151.8	27.3	28.9	-79.96	659.0	-2,312.0	1,280.6	1,226.5	54.09	23.673	
7,410.0	7,276.8	7,165.9	7,157.4	27.3	28.9	-79.87	660.9	-2,312.2	1,281.4	1,227.3	54.12	23.678	
7,500.0	7,366.8	7,213.0	7,201.2	27.4	29.0	-79.12	678.2	-2,313.5	1,290.7	1,236.4	54.30	23.768	
7,505.0	7,371.8	7,220.5	7,208.1	27.4	29.0	-78.99	681.4	-2,313.7	1,291.3	1,237.0	54.33	23.768	
7,600.0	7,466.8	7,276.0	7,257.2	27.4	29.2	-77.88	707.1	-2,315.4	1,304.3	1,249.8	54.49	23.939	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to *RKB 32ft + GL 3124.7ft @ 3156.7usft

Offset Depths are relative to Offset Datum

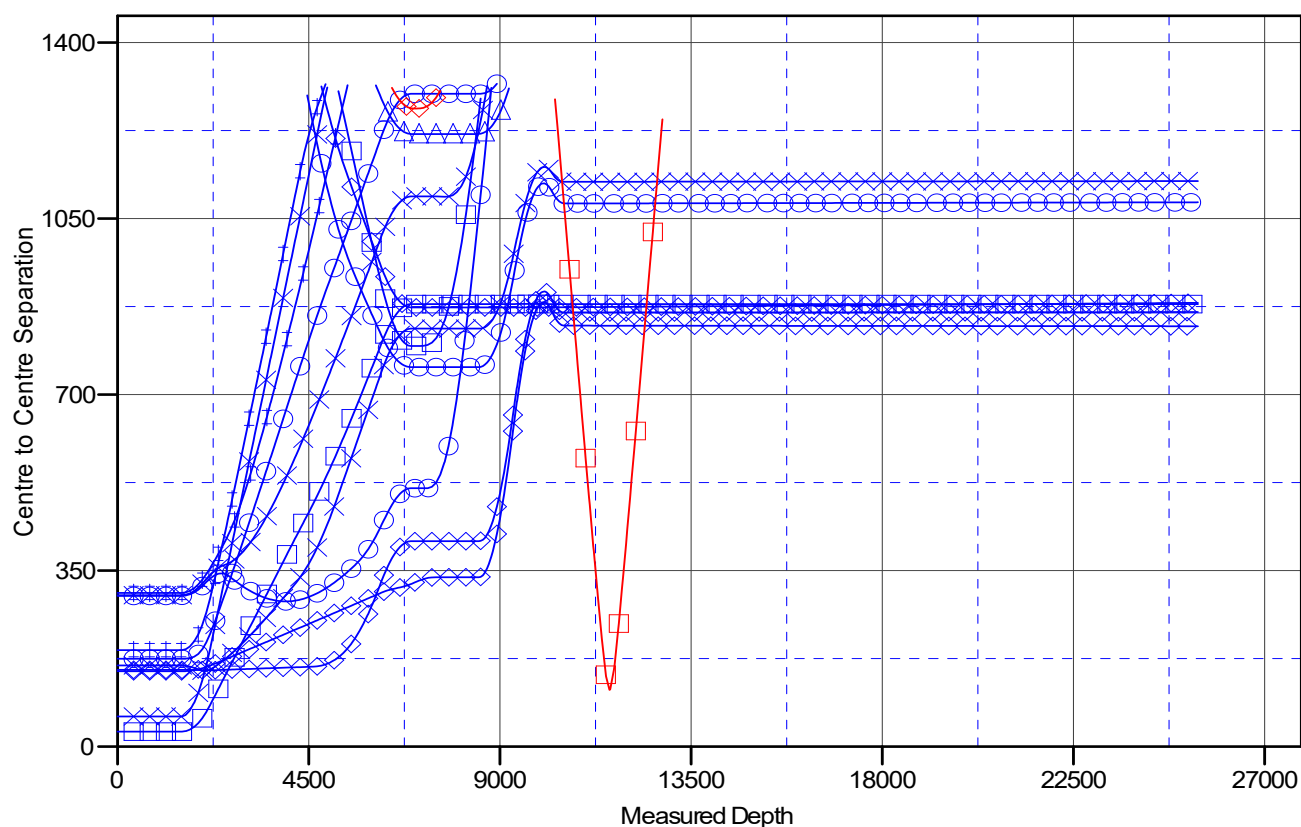
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: FLAMING SNAIL FEDERAL COM #803H

Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30

Grid Convergence at Surface is: 0.08°

Ladder Plot



LEGEND

FLAMING SNAIL FEDERAL COM #501H, OWB, PWP0 V0	FLAMING SNAIL FEDERAL COM #703H, OWB, PWP1 V0	FLAMING SNAIL FEDERAL COM #802H, OWB, PWP1 V0
FLAMING SNAIL FEDERAL COM #502H, OWB, PWP0 V0	FLAMING SNAIL FEDERAL COM #704H, OWB, PWP1 V0	FLAMING SNAIL FEDERAL COM #804H, OWB, PWP1 V0
FLAMING SNAIL FEDERAL COM #503H, OWB, PWP0 V0	FLAMING SNAIL FEDERAL COM #705H, OWB, PWP1 V0	LEONARDO BKL FEDERAL COM #1, OWB, AWP V0
FLAMING SNAIL FEDERAL COM #520H, OWB, PWP0 V0	FLAMING SNAIL FEDERAL COM #706H, OWB, PWP1 V0	WHITE CITY 21 25 27 FEDERAL COM #6H, OWB, AWP V0
FLAMING SNAIL FEDERAL COM #701H, OWB, PWP1 V0	FLAMING SNAIL FEDERAL COM #707H, OWB, PWP1 V0	
FLAMING SNAIL FEDERAL COM #702H, OWB, PWP1 V0	FLAMING SNAIL FEDERAL COM #801H, OWB, PWP1 V0	

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

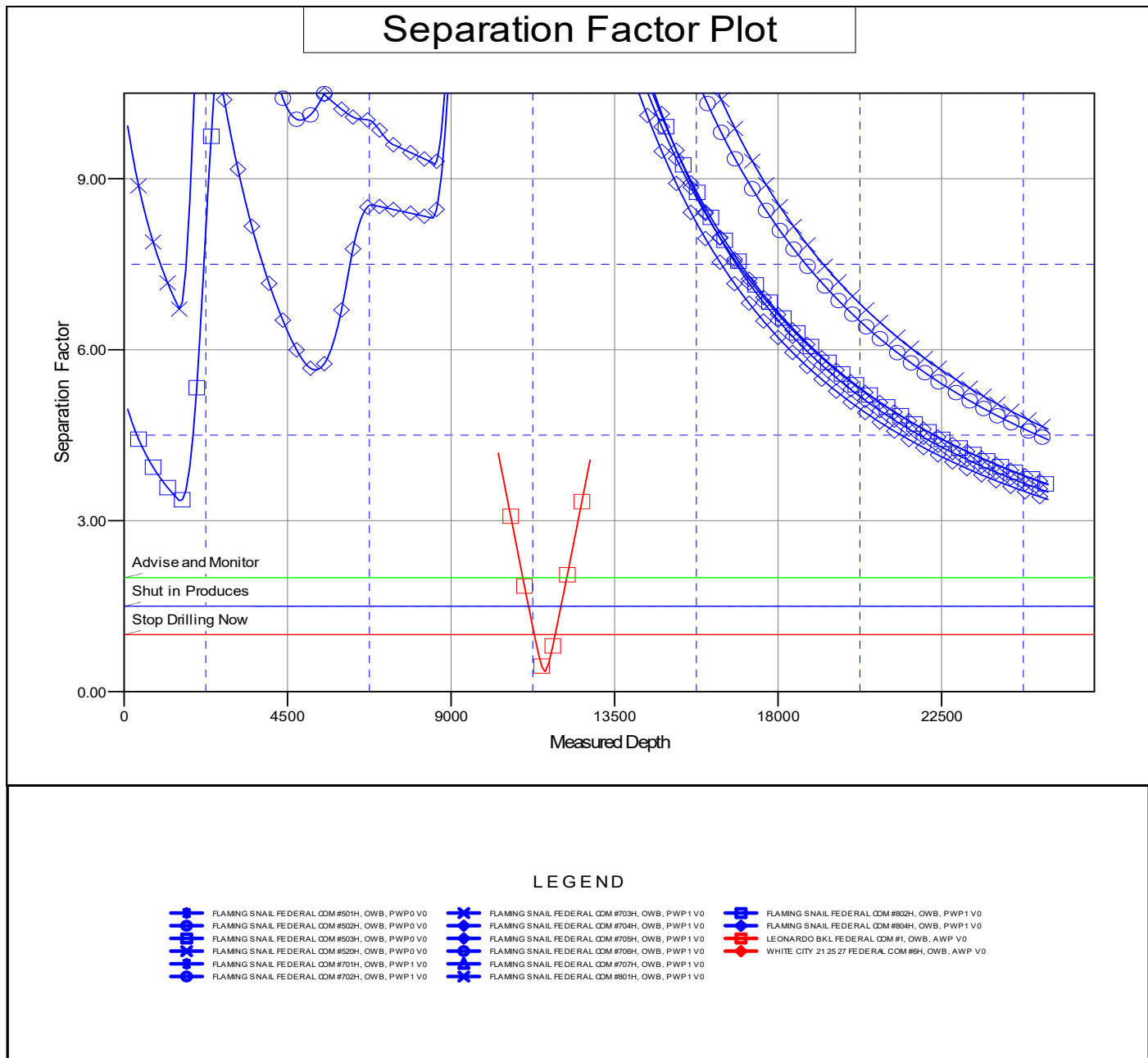
ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to *RKB 32ft + GL 3124.7ft @ 3156.7usf
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: FLAMING SNAIL FEDERAL COM #803H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.08°



DELAWARE BASIN WEST

ATLAS PROSPECT (NM-E)

FLAMING SNAIL FED COM PROJECT

FLAMING SNAIL FEDERAL COM #803H

OWB

Plan: PWP1

Standard Planning Report

24 September, 2022

ConocoPhillips
Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

Project	ATLAS 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		FLAMING SNAIL FED COM PROJECT			
Site Position:		Northing:	403,021.72 usft	Latitude:	32° 6' 28.642 N
From:	Map	Easting:	540,311.87 usft	Longitude:	104° 12' 11.304 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.07 °

Well	FLAMING SNAIL FEDERAL COM #803H					
Well Position	+N/-S	-398.6 usft	Northing:	402,623.10 usft	Latitude:	32° 6' 24.643 N
	+E/-W	4,280.6 usft	Easting:	544,592.50 usft	Longitude:	104° 11' 21.541 W
Position Uncertainty		3.0 usft	Wellhead Elevation:		Ground Level:	3,124.7 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2022	12/1/2023	6.78	59.68	47,317.56958837

Design	PWP1			
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	184.42

Plan Survey Tool Program		Date	9/23/2022		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	1,500.0 PWP1 (OWB)	r.5 SDI_KPR_WL_NS-CT SDI Keeper Wireline Gyrocomp		
2	1,500.0	9,326.3 PWP1 (OWB)	r.5 MWD+IFR1 OWSG MWD + IFR1 rev.5		
3	9,326.3	25,430.7 PWP1 (OWB)	r.5 MWD+IFR1+MS OWSG MWD + IFR1 + Multi-St		

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Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

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	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,199.9	14.00	292.47	2,193.0	32.5	-78.6	2.00	2.00	0.00	292.47	
6,218.3	14.00	292.47	6,092.0	404.0	-976.9	0.00	0.00	0.00	0.00	
6,918.2	0.00	0.00	6,785.0	436.5	-1,055.5	2.00	-2.00	0.00	180.00	
9,326.3	0.00	0.00	9,193.0	436.5	-1,055.5	0.00	0.00	0.00	0.00	
10,225.9	89.96	180.47	9,766.0	-136.0	-1,060.2	10.00	10.00	-19.96	180.47	
25,300.6	89.96	180.47	9,776.9	-15,210.3	-1,184.9	0.00	0.00	0.00	0.00	LTP (FLAMING SNAII
25,430.7	89.96	180.47	9,777.0	-15,340.3	-1,186.0	0.00	0.00	0.00	0.00	PBHL (FLAMING SN#

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

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	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
Start Build 2.00									
1,600.0	2.00	292.47	1,600.0	0.7	-1.6	-0.5	2.00	2.00	0.00
1,700.0	4.00	292.47	1,699.8	2.7	-6.4	-2.2	2.00	2.00	0.00
1,800.0	6.00	292.47	1,799.5	6.0	-14.5	-4.9	2.00	2.00	0.00
1,900.0	8.00	292.47	1,898.7	10.7	-25.8	-8.6	2.00	2.00	0.00
2,000.0	10.00	292.47	1,997.5	16.6	-40.2	-13.5	2.00	2.00	0.00
2,100.0	12.00	292.47	2,095.6	23.9	-57.9	-19.4	2.00	2.00	0.00
2,199.9	14.00	292.47	2,193.0	32.5	-78.6	-26.4	2.00	2.00	0.00
Start 4018.4 hold at 2199.9 MD									
2,300.0	14.00	292.47	2,290.1	41.8	-101.0	-33.9	0.00	0.00	0.00
2,400.0	14.00	292.47	2,387.1	51.0	-123.3	-41.3	0.00	0.00	0.00
2,500.0	14.00	292.47	2,484.1	60.3	-145.7	-48.8	0.00	0.00	0.00
2,600.0	14.00	292.47	2,581.2	69.5	-168.1	-56.3	0.00	0.00	0.00
2,700.0	14.00	292.47	2,678.2	78.7	-190.4	-63.8	0.00	0.00	0.00
2,800.0	14.00	292.47	2,775.2	88.0	-212.8	-71.3	0.00	0.00	0.00
2,900.0	14.00	292.47	2,872.3	97.2	-235.1	-78.8	0.00	0.00	0.00
3,000.0	14.00	292.47	2,969.3	106.5	-257.5	-86.3	0.00	0.00	0.00
3,100.0	14.00	292.47	3,066.3	115.7	-279.8	-93.8	0.00	0.00	0.00
3,200.0	14.00	292.47	3,163.4	125.0	-302.2	-101.3	0.00	0.00	0.00
3,300.0	14.00	292.47	3,260.4	134.2	-324.5	-108.8	0.00	0.00	0.00
3,400.0	14.00	292.47	3,357.4	143.5	-346.9	-116.3	0.00	0.00	0.00
3,500.0	14.00	292.47	3,454.4	152.7	-369.2	-123.8	0.00	0.00	0.00
3,600.0	14.00	292.47	3,551.5	161.9	-391.6	-131.3	0.00	0.00	0.00
3,700.0	14.00	292.47	3,648.5	171.2	-413.9	-138.8	0.00	0.00	0.00
3,800.0	14.00	292.47	3,745.5	180.4	-436.3	-146.3	0.00	0.00	0.00
3,900.0	14.00	292.47	3,842.6	189.7	-458.7	-153.8	0.00	0.00	0.00
4,000.0	14.00	292.47	3,939.6	198.9	-481.0	-161.2	0.00	0.00	0.00
4,100.0	14.00	292.47	4,036.6	208.2	-503.4	-168.7	0.00	0.00	0.00
4,200.0	14.00	292.47	4,133.7	217.4	-525.7	-176.2	0.00	0.00	0.00
4,300.0	14.00	292.47	4,230.7	226.7	-548.1	-183.7	0.00	0.00	0.00
4,400.0	14.00	292.47	4,327.7	235.9	-570.4	-191.2	0.00	0.00	0.00
4,500.0	14.00	292.47	4,424.7	245.1	-592.8	-198.7	0.00	0.00	0.00
4,600.0	14.00	292.47	4,521.8	254.4	-615.1	-206.2	0.00	0.00	0.00
4,700.0	14.00	292.47	4,618.8	263.6	-637.5	-213.7	0.00	0.00	0.00
4,800.0	14.00	292.47	4,715.8	272.9	-659.8	-221.2	0.00	0.00	0.00
4,900.0	14.00	292.47	4,812.9	282.1	-682.2	-228.7	0.00	0.00	0.00
5,000.0	14.00	292.47	4,909.9	291.4	-704.5	-236.2	0.00	0.00	0.00
5,100.0	14.00	292.47	5,006.9	300.6	-726.9	-243.7	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

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	14.00	292.47	5,104.0	309.9	-749.3	-251.2	0.00	0.00	0.00
5,300.0	14.00	292.47	5,201.0	319.1	-771.6	-258.7	0.00	0.00	0.00
5,400.0	14.00	292.47	5,298.0	328.3	-794.0	-266.2	0.00	0.00	0.00
5,500.0	14.00	292.47	5,395.1	337.6	-816.3	-273.7	0.00	0.00	0.00
5,600.0	14.00	292.47	5,492.1	346.8	-838.7	-281.2	0.00	0.00	0.00
5,700.0	14.00	292.47	5,589.1	356.1	-861.0	-288.6	0.00	0.00	0.00
5,800.0	14.00	292.47	5,686.1	365.3	-883.4	-296.1	0.00	0.00	0.00
5,900.0	14.00	292.47	5,783.2	374.6	-905.7	-303.6	0.00	0.00	0.00
6,000.0	14.00	292.47	5,880.2	383.8	-928.1	-311.1	0.00	0.00	0.00
6,100.0	14.00	292.47	5,977.2	393.1	-950.4	-318.6	0.00	0.00	0.00
6,200.0	14.00	292.47	6,074.3	402.3	-972.8	-326.1	0.00	0.00	0.00
6,218.3	14.00	292.47	6,092.0	404.0	-976.9	-327.5	0.00	0.00	0.00
Start Drop -2.00									
6,300.0	12.36	292.47	6,171.6	411.1	-994.1	-333.3	2.00	-2.00	0.00
6,400.0	10.36	292.47	6,269.6	418.6	-1,012.3	-339.4	2.00	-2.00	0.00
6,500.0	8.36	292.47	6,368.3	424.9	-1,027.3	-344.4	2.00	-2.00	0.00
6,600.0	6.36	292.47	6,467.4	429.8	-1,039.2	-348.4	2.00	-2.00	0.00
6,700.0	4.36	292.47	6,567.0	433.3	-1,047.8	-351.3	2.00	-2.00	0.00
6,800.0	2.36	292.47	6,666.8	435.6	-1,053.2	-353.1	2.00	-2.00	0.00
6,900.0	0.36	292.47	6,766.8	436.5	-1,055.4	-353.8	2.00	-2.00	0.00
6,918.2	0.00	0.00	6,785.0	436.5	-1,055.5	-353.8	2.00	-2.00	0.00
Start 2408.0 hold at 6918.2 MD									
7,000.0	0.00	0.00	6,866.8	436.5	-1,055.5	-353.8	0.00	0.00	0.00
7,100.0	0.00	0.00	6,966.8	436.5	-1,055.5	-353.8	0.00	0.00	0.00
7,200.0	0.00	0.00	7,066.8	436.5	-1,055.5	-353.8	0.00	0.00	0.00
7,300.0	0.00	0.00	7,166.8	436.5	-1,055.5	-353.8	0.00	0.00	0.00
7,400.0	0.00	0.00	7,266.8	436.5	-1,055.5	-353.8	0.00	0.00	0.00
7,500.0	0.00	0.00	7,366.8	436.5	-1,055.5	-353.8	0.00	0.00	0.00
7,600.0	0.00	0.00	7,466.8	436.5	-1,055.5	-353.8	0.00	0.00	0.00
7,700.0	0.00	0.00	7,566.8	436.5	-1,055.5	-353.8	0.00	0.00	0.00
7,800.0	0.00	0.00	7,666.8	436.5	-1,055.5	-353.8	0.00	0.00	0.00
7,900.0	0.00	0.00	7,766.8	436.5	-1,055.5	-353.8	0.00	0.00	0.00
8,000.0	0.00	0.00	7,866.8	436.5	-1,055.5	-353.8	0.00	0.00	0.00
8,100.0	0.00	0.00	7,966.8	436.5	-1,055.5	-353.8	0.00	0.00	0.00
8,200.0	0.00	0.00	8,066.8	436.5	-1,055.5	-353.8	0.00	0.00	0.00
8,300.0	0.00	0.00	8,166.8	436.5	-1,055.5	-353.8	0.00	0.00	0.00
8,400.0	0.00	0.00	8,266.8	436.5	-1,055.5	-353.8	0.00	0.00	0.00
8,500.0	0.00	0.00	8,366.8	436.5	-1,055.5	-353.8	0.00	0.00	0.00
8,600.0	0.00	0.00	8,466.8	436.5	-1,055.5	-353.8	0.00	0.00	0.00
8,700.0	0.00	0.00	8,566.8	436.5	-1,055.5	-353.8	0.00	0.00	0.00
8,800.0	0.00	0.00	8,666.8	436.5	-1,055.5	-353.8	0.00	0.00	0.00
8,900.0	0.00	0.00	8,766.8	436.5	-1,055.5	-353.8	0.00	0.00	0.00
9,000.0	0.00	0.00	8,866.8	436.5	-1,055.5	-353.8	0.00	0.00	0.00
9,100.0	0.00	0.00	8,966.8	436.5	-1,055.5	-353.8	0.00	0.00	0.00
9,200.0	0.00	0.00	9,066.8	436.5	-1,055.5	-353.8	0.00	0.00	0.00
9,300.0	0.00	0.00	9,166.8	436.5	-1,055.5	-353.8	0.00	0.00	0.00
9,326.3	0.00	0.00	9,193.0	436.5	-1,055.5	-353.8	0.00	0.00	0.00
Start DLS 10.00 TFO 180.47									
9,350.0	2.37	180.47	9,216.8	436.0	-1,055.5	-353.4	10.00	10.00	0.00
9,400.0	7.37	180.47	9,266.6	431.8	-1,055.5	-349.1	10.00	10.00	0.00
9,450.0	12.37	180.47	9,315.8	423.2	-1,055.6	-340.6	10.00	10.00	0.00
9,500.0	17.37	180.47	9,364.1	410.4	-1,055.7	-327.8	10.00	10.00	0.00
9,550.0	22.37	180.47	9,411.1	393.4	-1,055.9	-310.8	10.00	10.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,600.0	27.37	180.47	9,456.5	372.3	-1,056.0	-289.8	10.00	10.00	0.00
9,650.0	32.37	180.47	9,499.8	347.5	-1,056.2	-265.0	10.00	10.00	0.00
9,700.0	37.37	180.47	9,540.8	318.9	-1,056.5	-236.5	10.00	10.00	0.00
9,750.0	42.37	180.47	9,579.2	286.8	-1,056.7	-204.5	10.00	10.00	0.00
9,800.0	47.37	180.47	9,614.6	251.6	-1,057.0	-169.3	10.00	10.00	0.00
9,850.0	52.37	180.47	9,646.8	213.3	-1,057.3	-131.2	10.00	10.00	0.00
9,900.0	57.37	180.47	9,675.6	172.5	-1,057.7	-90.4	10.00	10.00	0.00
9,950.0	62.37	180.47	9,700.7	129.2	-1,058.0	-47.3	10.00	10.00	0.00
10,000.0	67.37	180.47	9,721.9	84.0	-1,058.4	-2.2	10.00	10.00	0.00
10,050.0	72.37	180.47	9,739.1	37.1	-1,058.8	44.7	10.00	10.00	0.00
10,100.0	77.37	180.47	9,752.1	-11.2	-1,059.2	92.8	10.00	10.00	0.00
10,150.0	82.37	180.47	9,760.9	-60.4	-1,059.6	141.9	10.00	10.00	0.00
10,200.0	87.37	180.47	9,765.4	-110.2	-1,060.0	191.6	10.00	10.00	0.00
10,225.9	89.96	180.47	9,766.0	-136.0	-1,060.2	217.3	10.00	10.00	0.00
Start 15074.8 hold at 10225.9 MD									
10,300.0	89.96	180.47	9,766.1	-210.2	-1,060.8	291.3	0.00	0.00	0.00
10,400.0	89.96	180.47	9,766.1	-310.2	-1,061.7	391.1	0.00	0.00	0.00
10,500.0	89.96	180.47	9,766.2	-410.2	-1,062.5	490.8	0.00	0.00	0.00
10,600.0	89.96	180.47	9,766.3	-510.2	-1,063.3	590.6	0.00	0.00	0.00
10,700.0	89.96	180.47	9,766.3	-610.2	-1,064.2	690.4	0.00	0.00	0.00
10,800.0	89.96	180.47	9,766.4	-710.2	-1,065.0	790.1	0.00	0.00	0.00
10,900.0	89.96	180.47	9,766.5	-810.1	-1,065.8	889.9	0.00	0.00	0.00
11,000.0	89.96	180.47	9,766.6	-910.1	-1,066.6	989.7	0.00	0.00	0.00
11,100.0	89.96	180.47	9,766.6	-1,010.1	-1,067.5	1,089.4	0.00	0.00	0.00
11,200.0	89.96	180.47	9,766.7	-1,110.1	-1,068.3	1,189.2	0.00	0.00	0.00
11,300.0	89.96	180.47	9,766.8	-1,210.1	-1,069.1	1,288.9	0.00	0.00	0.00
11,400.0	89.96	180.47	9,766.8	-1,310.1	-1,069.9	1,388.7	0.00	0.00	0.00
11,500.0	89.96	180.47	9,766.9	-1,410.1	-1,070.8	1,488.5	0.00	0.00	0.00
11,600.0	89.96	180.47	9,767.0	-1,510.1	-1,071.6	1,588.2	0.00	0.00	0.00
11,700.0	89.96	180.47	9,767.1	-1,610.1	-1,072.4	1,688.0	0.00	0.00	0.00
11,800.0	89.96	180.47	9,767.1	-1,710.1	-1,073.3	1,787.8	0.00	0.00	0.00
11,900.0	89.96	180.47	9,767.2	-1,810.1	-1,074.1	1,887.5	0.00	0.00	0.00
12,000.0	89.96	180.47	9,767.3	-1,910.1	-1,074.9	1,987.3	0.00	0.00	0.00
12,100.0	89.96	180.47	9,767.4	-2,010.1	-1,075.7	2,087.0	0.00	0.00	0.00
12,200.0	89.96	180.47	9,767.4	-2,110.1	-1,076.6	2,186.8	0.00	0.00	0.00
12,300.0	89.96	180.47	9,767.5	-2,210.1	-1,077.4	2,286.6	0.00	0.00	0.00
12,400.0	89.96	180.47	9,767.6	-2,310.1	-1,078.2	2,386.3	0.00	0.00	0.00
12,500.0	89.96	180.47	9,767.6	-2,410.1	-1,079.0	2,486.1	0.00	0.00	0.00
12,600.0	89.96	180.47	9,767.7	-2,510.1	-1,079.9	2,585.9	0.00	0.00	0.00
12,700.0	89.96	180.47	9,767.8	-2,610.1	-1,080.7	2,685.6	0.00	0.00	0.00
12,800.0	89.96	180.47	9,767.9	-2,710.1	-1,081.5	2,785.4	0.00	0.00	0.00
12,900.0	89.96	180.47	9,767.9	-2,810.1	-1,082.3	2,885.1	0.00	0.00	0.00
13,000.0	89.96	180.47	9,768.0	-2,910.1	-1,083.2	2,984.9	0.00	0.00	0.00
13,100.0	89.96	180.47	9,768.1	-3,010.1	-1,084.0	3,084.7	0.00	0.00	0.00
13,200.0	89.96	180.47	9,768.2	-3,110.1	-1,084.8	3,184.4	0.00	0.00	0.00
13,300.0	89.96	180.47	9,768.2	-3,210.1	-1,085.7	3,284.2	0.00	0.00	0.00
13,400.0	89.96	180.47	9,768.3	-3,310.1	-1,086.5	3,384.0	0.00	0.00	0.00
13,500.0	89.96	180.47	9,768.4	-3,410.1	-1,087.3	3,483.7	0.00	0.00	0.00
13,600.0	89.96	180.47	9,768.4	-3,510.1	-1,088.1	3,583.5	0.00	0.00	0.00
13,700.0	89.96	180.47	9,768.5	-3,610.1	-1,089.0	3,683.3	0.00	0.00	0.00
13,800.0	89.96	180.47	9,768.6	-3,710.0	-1,089.8	3,783.0	0.00	0.00	0.00
13,900.0	89.96	180.47	9,768.7	-3,810.0	-1,090.6	3,882.8	0.00	0.00	0.00
14,000.0	89.96	180.47	9,768.7	-3,910.0	-1,091.4	3,982.5	0.00	0.00	0.00
14,100.0	89.96	180.47	9,768.8	-4,010.0	-1,092.3	4,082.3	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

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)
14,200.0	89.96	180.47	9,768.9	-4,110.0	-1,093.1	4,182.1	0.00	0.00	0.00
14,300.0	89.96	180.47	9,768.9	-4,210.0	-1,093.9	4,281.8	0.00	0.00	0.00
14,400.0	89.96	180.47	9,769.0	-4,310.0	-1,094.8	4,381.6	0.00	0.00	0.00
14,500.0	89.96	180.47	9,769.1	-4,410.0	-1,095.6	4,481.4	0.00	0.00	0.00
14,600.0	89.96	180.47	9,769.2	-4,510.0	-1,096.4	4,581.1	0.00	0.00	0.00
14,700.0	89.96	180.47	9,769.2	-4,610.0	-1,097.2	4,680.9	0.00	0.00	0.00
14,800.0	89.96	180.47	9,769.3	-4,710.0	-1,098.1	4,780.6	0.00	0.00	0.00
14,900.0	89.96	180.47	9,769.4	-4,810.0	-1,098.9	4,880.4	0.00	0.00	0.00
15,000.0	89.96	180.47	9,769.5	-4,910.0	-1,099.7	4,980.2	0.00	0.00	0.00
15,100.0	89.96	180.47	9,769.5	-5,010.0	-1,100.5	5,079.9	0.00	0.00	0.00
15,200.0	89.96	180.47	9,769.6	-5,110.0	-1,101.4	5,179.7	0.00	0.00	0.00
15,300.0	89.96	180.47	9,769.7	-5,210.0	-1,102.2	5,279.5	0.00	0.00	0.00
15,400.0	89.96	180.47	9,769.7	-5,310.0	-1,103.0	5,379.2	0.00	0.00	0.00
15,500.0	89.96	180.47	9,769.8	-5,410.0	-1,103.9	5,479.0	0.00	0.00	0.00
15,600.0	89.96	180.47	9,769.9	-5,510.0	-1,104.7	5,578.7	0.00	0.00	0.00
15,700.0	89.96	180.47	9,770.0	-5,610.0	-1,105.5	5,678.5	0.00	0.00	0.00
15,800.0	89.96	180.47	9,770.0	-5,710.0	-1,106.3	5,778.3	0.00	0.00	0.00
15,900.0	89.96	180.47	9,770.1	-5,810.0	-1,107.2	5,878.0	0.00	0.00	0.00
16,000.0	89.96	180.47	9,770.2	-5,910.0	-1,108.0	5,977.8	0.00	0.00	0.00
16,100.0	89.96	180.47	9,770.2	-6,010.0	-1,108.8	6,077.6	0.00	0.00	0.00
16,200.0	89.96	180.47	9,770.3	-6,110.0	-1,109.6	6,177.3	0.00	0.00	0.00
16,300.0	89.96	180.47	9,770.4	-6,210.0	-1,110.5	6,277.1	0.00	0.00	0.00
16,400.0	89.96	180.47	9,770.5	-6,310.0	-1,111.3	6,376.8	0.00	0.00	0.00
16,500.0	89.96	180.47	9,770.5	-6,410.0	-1,112.1	6,476.6	0.00	0.00	0.00
16,600.0	89.96	180.47	9,770.6	-6,510.0	-1,112.9	6,576.4	0.00	0.00	0.00
16,700.0	89.96	180.47	9,770.7	-6,609.9	-1,113.8	6,676.1	0.00	0.00	0.00
16,800.0	89.96	180.47	9,770.8	-6,709.9	-1,114.6	6,775.9	0.00	0.00	0.00
16,900.0	89.96	180.47	9,770.8	-6,809.9	-1,115.4	6,875.7	0.00	0.00	0.00
17,000.0	89.96	180.47	9,770.9	-6,909.9	-1,116.3	6,975.4	0.00	0.00	0.00
17,100.0	89.96	180.47	9,771.0	-7,009.9	-1,117.1	7,075.2	0.00	0.00	0.00
17,200.0	89.96	180.47	9,771.0	-7,109.9	-1,117.9	7,174.9	0.00	0.00	0.00
17,300.0	89.96	180.47	9,771.1	-7,209.9	-1,118.7	7,274.7	0.00	0.00	0.00
17,400.0	89.96	180.47	9,771.2	-7,309.9	-1,119.6	7,374.5	0.00	0.00	0.00
17,500.0	89.96	180.47	9,771.3	-7,409.9	-1,120.4	7,474.2	0.00	0.00	0.00
17,600.0	89.96	180.47	9,771.3	-7,509.9	-1,121.2	7,574.0	0.00	0.00	0.00
17,700.0	89.96	180.47	9,771.4	-7,609.9	-1,122.0	7,673.8	0.00	0.00	0.00
17,800.0	89.96	180.47	9,771.5	-7,709.9	-1,122.9	7,773.5	0.00	0.00	0.00
17,900.0	89.96	180.47	9,771.6	-7,809.9	-1,123.7	7,873.3	0.00	0.00	0.00
18,000.0	89.96	180.47	9,771.6	-7,909.9	-1,124.5	7,973.1	0.00	0.00	0.00
18,100.0	89.96	180.47	9,771.7	-8,009.9	-1,125.4	8,072.8	0.00	0.00	0.00
18,200.0	89.96	180.47	9,771.8	-8,109.9	-1,126.2	8,172.6	0.00	0.00	0.00
18,300.0	89.96	180.47	9,771.8	-8,209.9	-1,127.0	8,272.3	0.00	0.00	0.00
18,400.0	89.96	180.47	9,771.9	-8,309.9	-1,127.8	8,372.1	0.00	0.00	0.00
18,500.0	89.96	180.47	9,772.0	-8,409.9	-1,128.7	8,471.9	0.00	0.00	0.00
18,600.0	89.96	180.47	9,772.1	-8,509.9	-1,129.5	8,571.6	0.00	0.00	0.00
18,700.0	89.96	180.47	9,772.1	-8,609.9	-1,130.3	8,671.4	0.00	0.00	0.00
18,800.0	89.96	180.47	9,772.2	-8,709.9	-1,131.1	8,771.2	0.00	0.00	0.00
18,900.0	89.96	180.47	9,772.3	-8,809.9	-1,132.0	8,870.9	0.00	0.00	0.00
19,000.0	89.96	180.47	9,772.3	-8,909.9	-1,132.8	8,970.7	0.00	0.00	0.00
19,100.0	89.96	180.47	9,772.4	-9,009.9	-1,133.6	9,070.4	0.00	0.00	0.00
19,200.0	89.96	180.47	9,772.5	-9,109.9	-1,134.4	9,170.2	0.00	0.00	0.00
19,300.0	89.96	180.47	9,772.6	-9,209.9	-1,135.3	9,270.0	0.00	0.00	0.00
19,400.0	89.96	180.47	9,772.6	-9,309.9	-1,136.1	9,369.7	0.00	0.00	0.00
19,500.0	89.96	180.47	9,772.7	-9,409.9	-1,136.9	9,469.5	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

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)
19,600.0	89.96	180.47	9,772.8	-9,509.8	-1,137.8	9,569.3	0.00	0.00	0.00
19,700.0	89.96	180.47	9,772.9	-9,609.8	-1,138.6	9,669.0	0.00	0.00	0.00
19,800.0	89.96	180.47	9,772.9	-9,709.8	-1,139.4	9,768.8	0.00	0.00	0.00
19,900.0	89.96	180.47	9,773.0	-9,809.8	-1,140.2	9,868.5	0.00	0.00	0.00
20,000.0	89.96	180.47	9,773.1	-9,909.8	-1,141.1	9,968.3	0.00	0.00	0.00
20,100.0	89.96	180.47	9,773.1	-10,009.8	-1,141.9	10,068.1	0.00	0.00	0.00
20,200.0	89.96	180.47	9,773.2	-10,109.8	-1,142.7	10,167.8	0.00	0.00	0.00
20,300.0	89.96	180.47	9,773.3	-10,209.8	-1,143.5	10,267.6	0.00	0.00	0.00
20,400.0	89.96	180.47	9,773.4	-10,309.8	-1,144.4	10,367.4	0.00	0.00	0.00
20,500.0	89.96	180.47	9,773.4	-10,409.8	-1,145.2	10,467.1	0.00	0.00	0.00
20,600.0	89.96	180.47	9,773.5	-10,509.8	-1,146.0	10,566.9	0.00	0.00	0.00
20,700.0	89.96	180.47	9,773.6	-10,609.8	-1,146.9	10,666.6	0.00	0.00	0.00
20,800.0	89.96	180.47	9,773.6	-10,709.8	-1,147.7	10,766.4	0.00	0.00	0.00
20,900.0	89.96	180.47	9,773.7	-10,809.8	-1,148.5	10,866.2	0.00	0.00	0.00
21,000.0	89.96	180.47	9,773.8	-10,909.8	-1,149.3	10,965.9	0.00	0.00	0.00
21,100.0	89.96	180.47	9,773.9	-11,009.8	-1,150.2	11,065.7	0.00	0.00	0.00
21,200.0	89.96	180.47	9,773.9	-11,109.8	-1,151.0	11,165.5	0.00	0.00	0.00
21,300.0	89.96	180.47	9,774.0	-11,209.8	-1,151.8	11,265.2	0.00	0.00	0.00
21,400.0	89.96	180.47	9,774.1	-11,309.8	-1,152.6	11,365.0	0.00	0.00	0.00
21,500.0	89.96	180.47	9,774.2	-11,409.8	-1,153.5	11,464.7	0.00	0.00	0.00
21,600.0	89.96	180.47	9,774.2	-11,509.8	-1,154.3	11,564.5	0.00	0.00	0.00
21,700.0	89.96	180.47	9,774.3	-11,609.8	-1,155.1	11,664.3	0.00	0.00	0.00
21,800.0	89.96	180.47	9,774.4	-11,709.8	-1,156.0	11,764.0	0.00	0.00	0.00
21,900.0	89.96	180.47	9,774.4	-11,809.8	-1,156.8	11,863.8	0.00	0.00	0.00
22,000.0	89.96	180.47	9,774.5	-11,909.8	-1,157.6	11,963.6	0.00	0.00	0.00
22,100.0	89.96	180.47	9,774.6	-12,009.8	-1,158.4	12,063.3	0.00	0.00	0.00
22,200.0	89.96	180.47	9,774.7	-12,109.8	-1,159.3	12,163.1	0.00	0.00	0.00
22,300.0	89.96	180.47	9,774.7	-12,209.8	-1,160.1	12,262.8	0.00	0.00	0.00
22,400.0	89.96	180.47	9,774.8	-12,309.8	-1,160.9	12,362.6	0.00	0.00	0.00
22,500.0	89.96	180.47	9,774.9	-12,409.7	-1,161.7	12,462.4	0.00	0.00	0.00
22,600.0	89.96	180.47	9,775.0	-12,509.7	-1,162.6	12,562.1	0.00	0.00	0.00
22,700.0	89.96	180.47	9,775.0	-12,609.7	-1,163.4	12,661.9	0.00	0.00	0.00
22,800.0	89.96	180.47	9,775.1	-12,709.7	-1,164.2	12,761.7	0.00	0.00	0.00
22,900.0	89.96	180.47	9,775.2	-12,809.7	-1,165.0	12,861.4	0.00	0.00	0.00
23,000.0	89.96	180.47	9,775.2	-12,909.7	-1,165.9	12,961.2	0.00	0.00	0.00
23,100.0	89.96	180.47	9,775.3	-13,009.7	-1,166.7	13,061.0	0.00	0.00	0.00
23,200.0	89.96	180.47	9,775.4	-13,109.7	-1,167.5	13,160.7	0.00	0.00	0.00
23,300.0	89.96	180.47	9,775.5	-13,209.7	-1,168.4	13,260.5	0.00	0.00	0.00
23,400.0	89.96	180.47	9,775.5	-13,309.7	-1,169.2	13,360.2	0.00	0.00	0.00
23,500.0	89.96	180.47	9,775.6	-13,409.7	-1,170.0	13,460.0	0.00	0.00	0.00
23,600.0	89.96	180.47	9,775.7	-13,509.7	-1,170.8	13,559.8	0.00	0.00	0.00
23,700.0	89.96	180.47	9,775.7	-13,609.7	-1,171.7	13,659.5	0.00	0.00	0.00
23,800.0	89.96	180.47	9,775.8	-13,709.7	-1,172.5	13,759.3	0.00	0.00	0.00
23,900.0	89.96	180.47	9,775.9	-13,809.7	-1,173.3	13,859.1	0.00	0.00	0.00
24,000.0	89.96	180.47	9,776.0	-13,909.7	-1,174.1	13,958.8	0.00	0.00	0.00
24,100.0	89.96	180.47	9,776.0	-14,009.7	-1,175.0	14,058.6	0.00	0.00	0.00
24,200.0	89.96	180.47	9,776.1	-14,109.7	-1,175.8	14,158.3	0.00	0.00	0.00
24,300.0	89.96	180.47	9,776.2	-14,209.7	-1,176.6	14,258.1	0.00	0.00	0.00
24,400.0	89.96	180.47	9,776.3	-14,309.7	-1,177.5	14,357.9	0.00	0.00	0.00
24,500.0	89.96	180.47	9,776.3	-14,409.7	-1,178.3	14,457.6	0.00	0.00	0.00
24,600.0	89.96	180.47	9,776.4	-14,509.7	-1,179.1	14,557.4	0.00	0.00	0.00
24,700.0	89.96	180.47	9,776.5	-14,609.7	-1,179.9	14,657.2	0.00	0.00	0.00
24,800.0	89.96	180.47	9,776.5	-14,709.7	-1,180.8	14,756.9	0.00	0.00	0.00
24,900.0	89.96	180.47	9,776.6	-14,809.7	-1,181.6	14,856.7	0.00	0.00	0.00

ConocoPhillips
Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #803H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #803H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

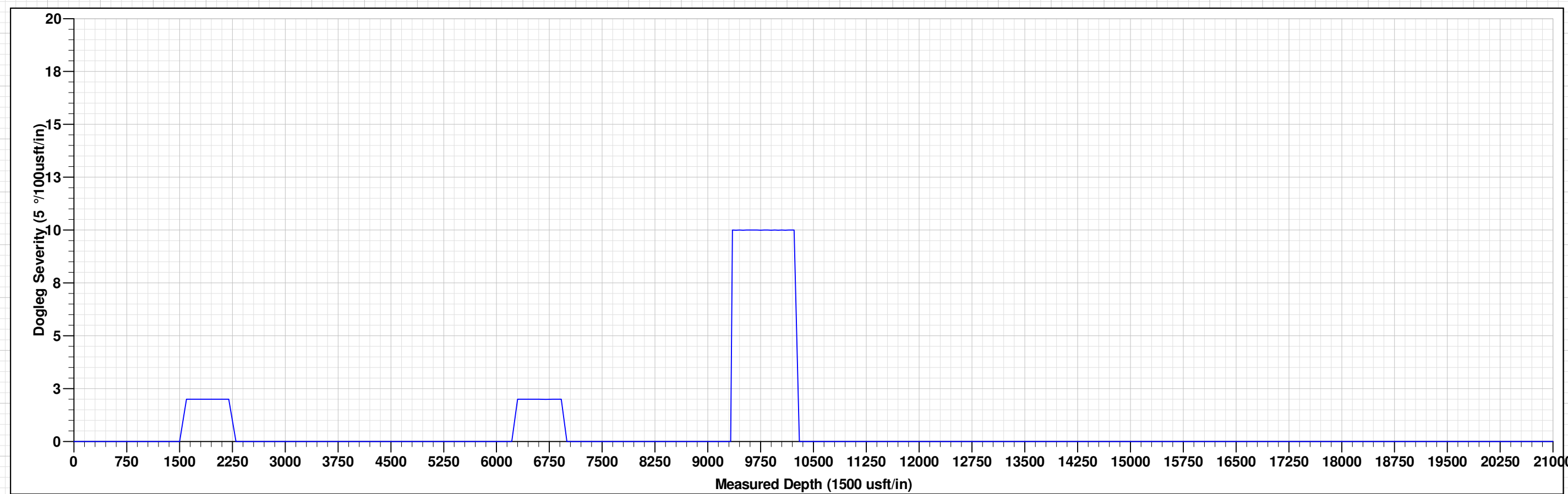
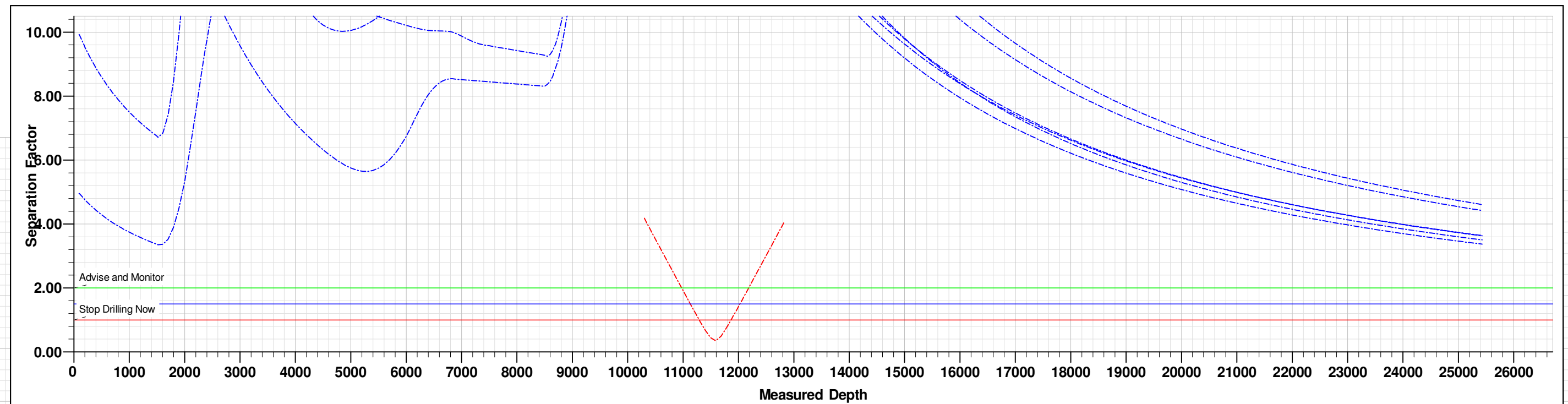
Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
25,000.0	89.96	180.47	9,776.7	-14,909.7	-1,182.4	14,956.4	0.00	0.00	0.00	
25,100.0	89.96	180.47	9,776.8	-15,009.7	-1,183.2	15,056.2	0.00	0.00	0.00	
25,200.0	89.96	180.47	9,776.8	-15,109.7	-1,184.1	15,156.0	0.00	0.00	0.00	
25,300.6	89.96	180.47	9,776.9	-15,210.3	-1,184.9	15,256.4	0.00	0.00	0.00	
Start 130.0 hold at 25300.6 MD										
25,400.0	89.96	180.47	9,777.0	-15,309.6	-1,185.7	15,355.5	0.00	0.00	0.00	
25,430.7	89.96	180.47	9,777.0	-15,340.3	-1,186.0	15,386.1	0.00	0.00	0.00	
TD at 25430.7										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude		Longitude
- hit/miss target										
- Shape										
VT (FLAMING SNAIL FE - plan hits target center - Circle (radius 25.0)	0.00	0.00	9,193.0	436.5	-1,055.5	403,059.60	543,537.00	32° 6' 28.976 N		104° 11' 33.806 W
FTP (FLAMING SNAIL F - plan misses target center by 70.6usft at 9953.1usft MD (9702.1 TVD, 126.5 N, -1058.1 E) - Circle (radius 50.0)	0.00	0.00	9,766.0	156.5	-1,057.7	402,779.60	543,534.80	32° 6' 26.205 N		104° 11' 33.836 W
LTP (FLAMING SNAIL F - plan hits target center - Point	0.00	0.00	9,776.9	-15,210.3	-1,184.9	387,412.80	543,407.60	32° 3' 54.128 N		104° 11' 35.547 W
PBHL (FLAMING SNAIL - plan hits target center - Rectangle (sides W100.0 H15,497.3 D20.0)	0.04	0.47	9,777.0	-15,340.3	-1,186.0	387,282.80	543,406.50	32° 3' 52.842 N		104° 11' 35.562 W

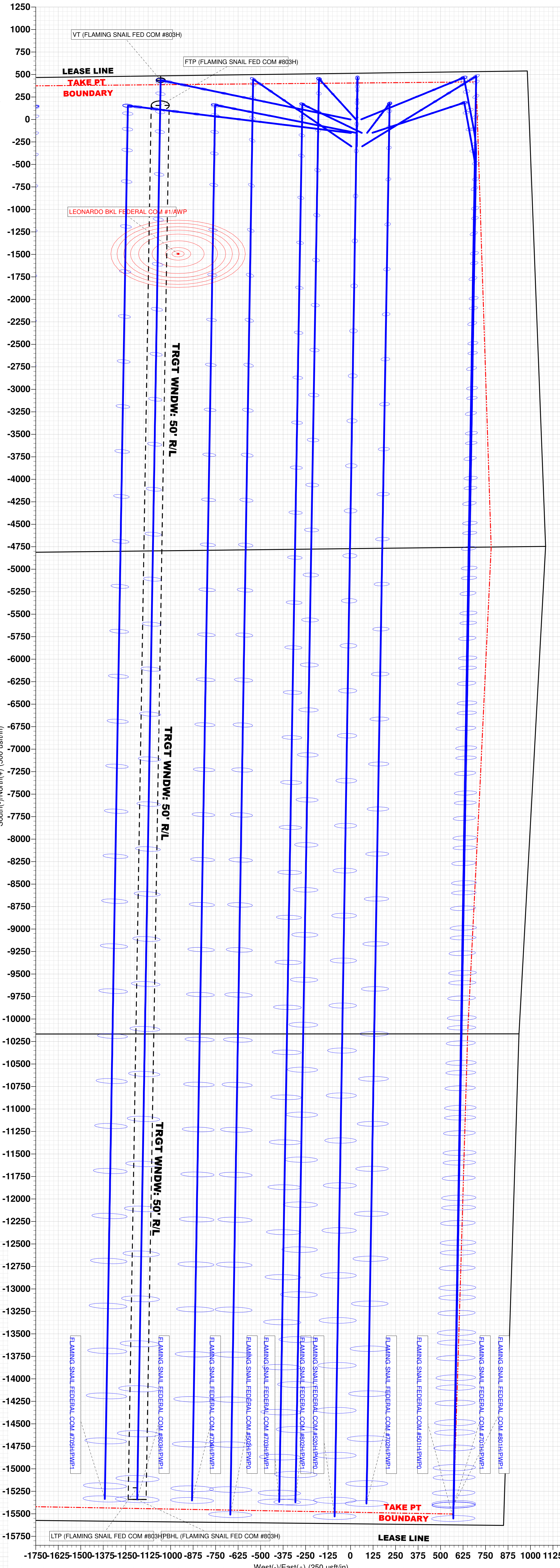
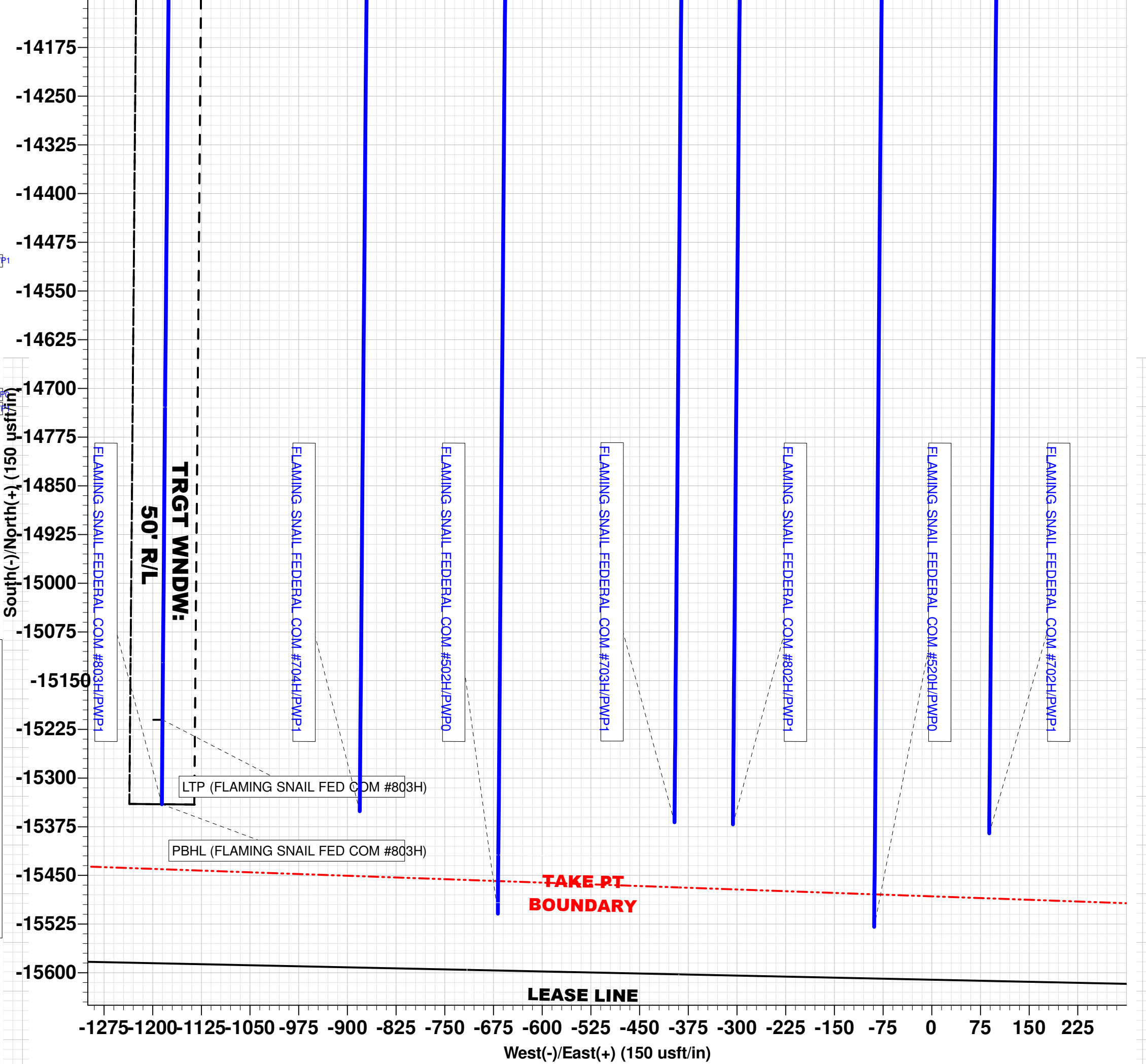
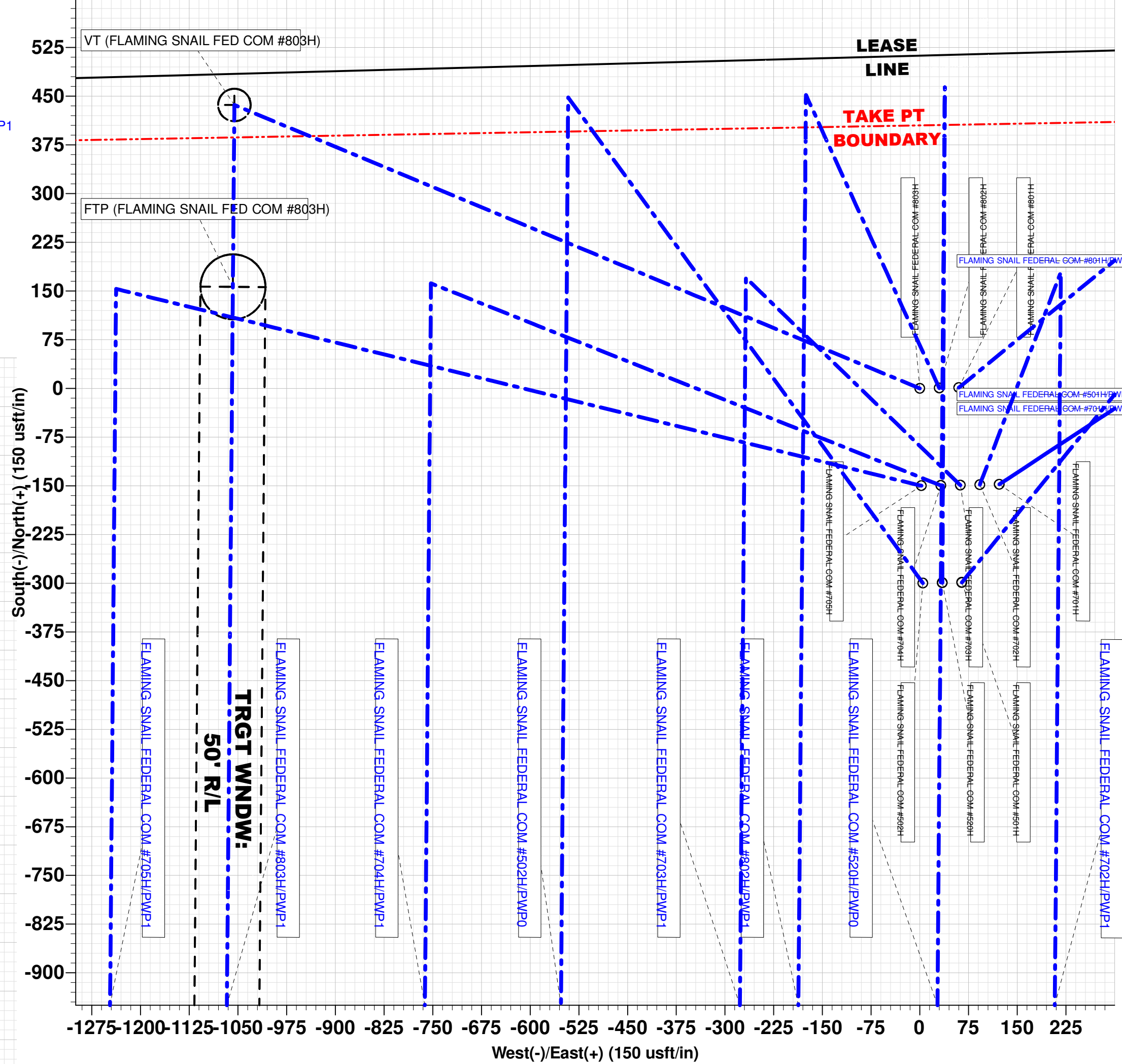
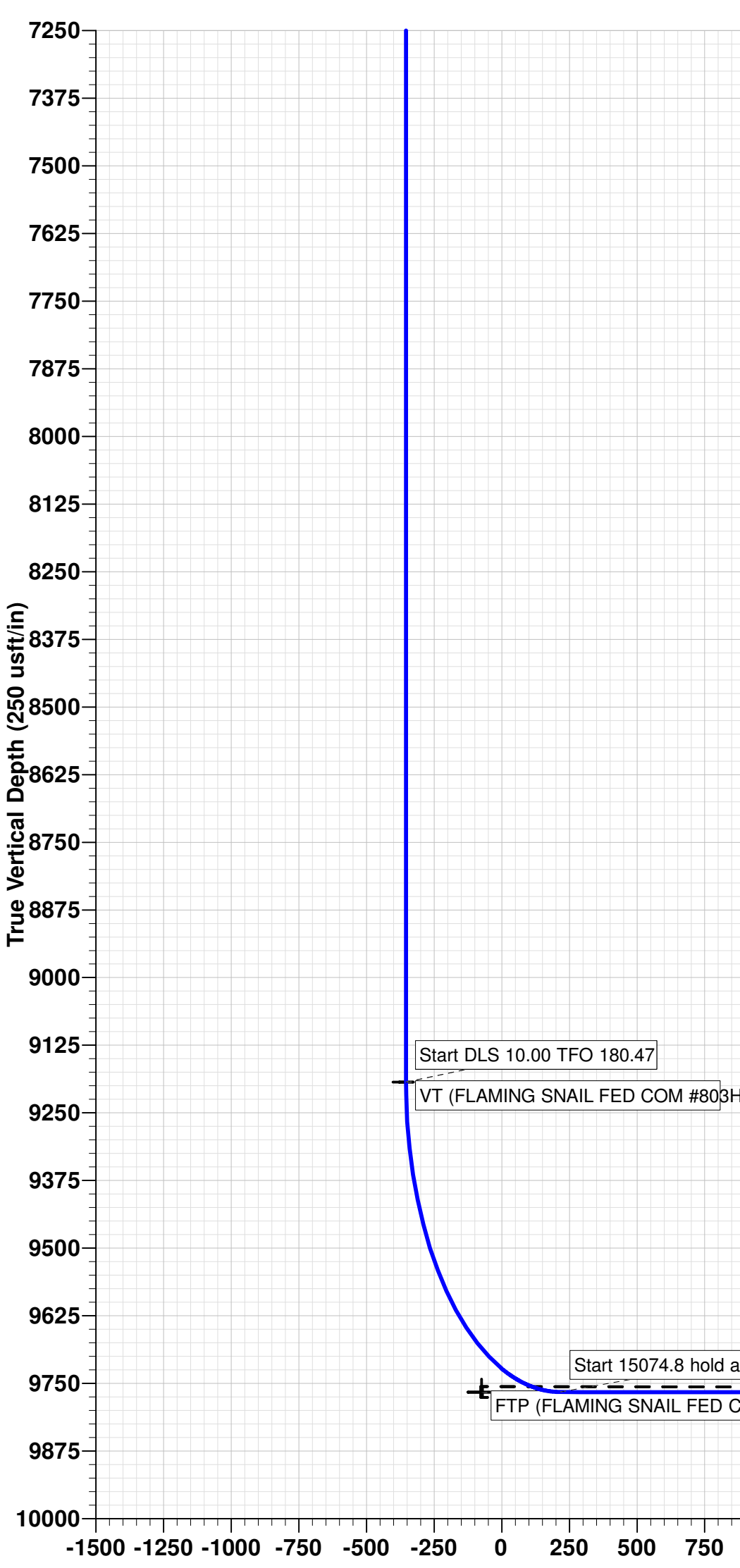
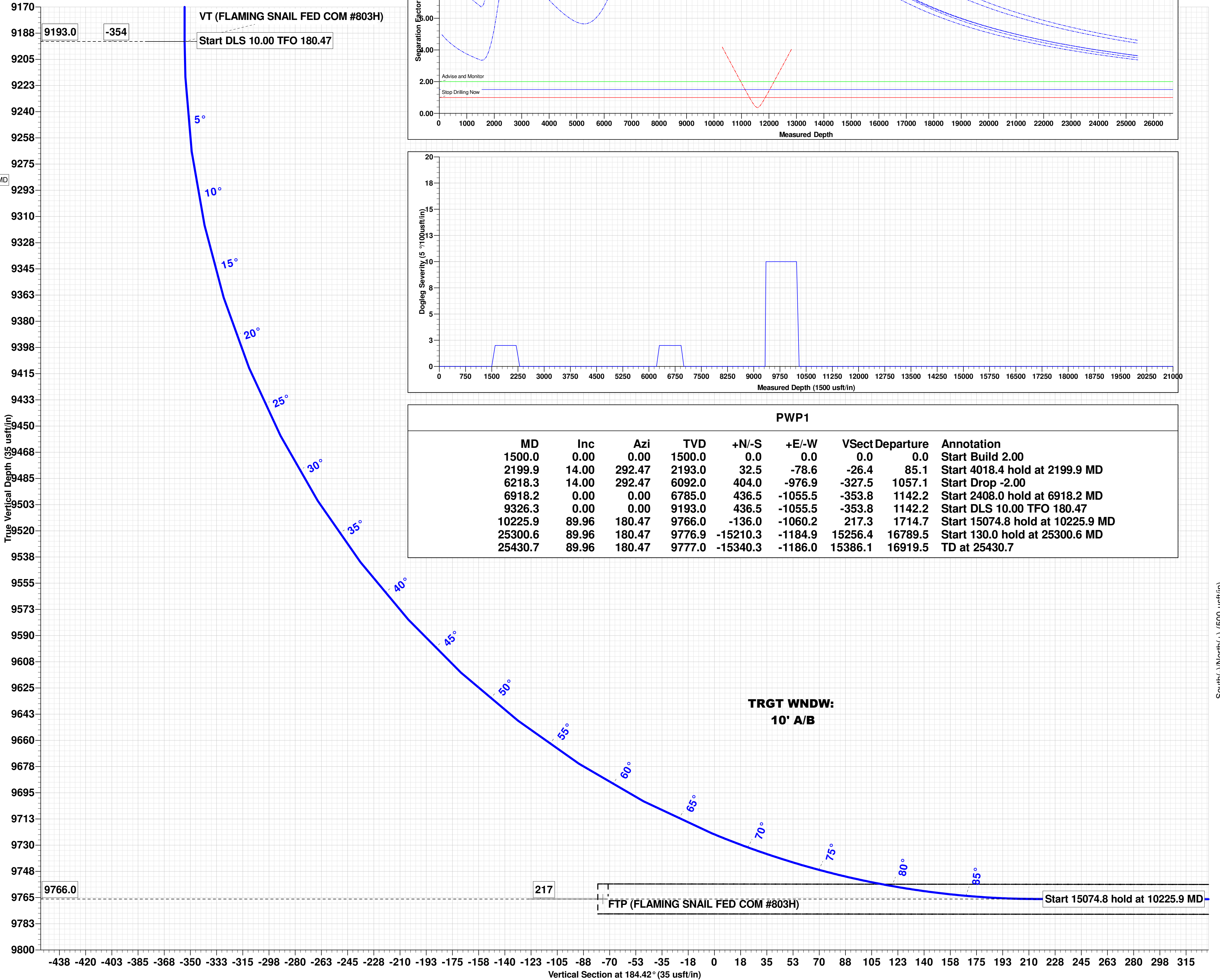
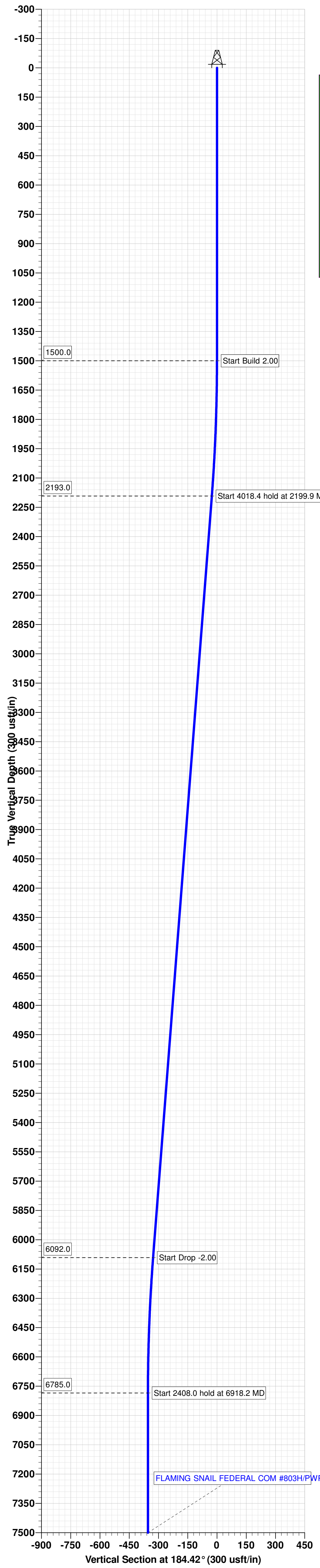
Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
1,500.0	1,500.0	0.0	0.0	Start Build 2.00	
2,199.9	2,193.0	32.5	-78.6	Start 4018.4 hold at 2199.9 MD	
6,218.3	6,092.0	404.0	-976.9	Start Drop -2.00	
6,918.2	6,785.0	436.5	-1,055.5	Start 2408.0 hold at 6918.2 MD	
9,326.3	9,193.0	436.5	-1,055.5	Start DLS 10.00 TFO 180.47	
10,225.9	9,766.0	-136.0	-1,060.2	Start 15074.8 hold at 10225.9 MD	
25,300.6	9,776.9	-15,210.3	-1,184.9	Start 130.0 hold at 25300.6 MD	
25,430.7	9,777.0	-15,340.3	-1,186.0	TD at 25430.7	

WELL DETAILS: FLAMING SNAIL FEDERAL COM #803H					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	402623.10	544592.50	32° 6' 24.643 N	104° 11' 21.541 W

DESIGN TARGET DETAILS					
Name	TVD	+N/-S	+E/-W	Northing	Easting
VT (FLAMING SNAIL FED COM #803H)	9193.0	436.5	-1055.5	403059.60	543537.00
FTP (FLAMING SNAIL FED COM #803H)	9766.0	156.5	-1057.7	402779.60	543534.80
LTP (FLAMING SNAIL FED COM #803H)	9776.9	-15210.3	-1184.9	387412.80	543407.60
PBHL (FLAMING SNAIL FED COM #803H)	9777.0	-15340.3	-1186.0	387282.80	543406.50
Shape					
Circle (Radius: 25.0)					
Circle (Radius: 50.0)					
Point					
Rectangle (Sides: L15497.3 W100.0)					



MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Departure	Annotation
1500.0	0.00	0.00	1500.0	0.0	0.0	0.0	0.0	Start Build 2.00
2199.9	14.00	292.47	2193.0	32.5	-78.6	-26.4	85.1	Start 4018.4 hold at 2199.9 MD
6218.3	14.00	292.47	6092.0	404.0	-976.9	-327.5	1057.1	Start Drop -2.00
6918.2	0.00	0.00	6785.0	436.5	-1055.5	-353.8	1142.2	Start 2408.0 hold at 6918.2 MD
9326.3	0.00	0.00	9193.0	436.5	-1055.5	-353.8	1142.2	Start DLS 10.00 TFO 180.47
10225.9	89.96	180.47	9766.0	-136.0	-1060.2	217.3	1714.7	Start 15074.8 hold at 10225.9 MD
25300.6	89.96	180.47	9776.9	-15210.3	-1184.9	15256.4	16789.5	Start 130.0 hold at 25300.6 MD
25430.7	89.96	180.47	9777.0	-15340.3	-1186.0	15386.1	16919.5	TD at 25430.7



PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	COG
LEASE NO.:	NMNM92167
LOCATION:	Section 23, T.26 S., R.34 E., NMPM
COUNTY:	Eddy County, New Mexico

WELL NAME & NO.:	Flaming Snail Fed Com 706H
SURFACE HOLE FOOTAGE:	757'/N & 1709'/W
BOTTOM HOLE FOOTAGE:	200'/S & 2490'/W

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
Other	☐ 4 String Area	☐ Capitan Reef	☐ WIPP
Other	☐ Fluid Filled	☐ Cement Squeeze	☐ Pilot Hole
Special Requirements	☐ Water Disposal	☒ COM	☐ Unit

A. HYDROGEN SULFIDE

Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

1. The **10-3/4** inch surface casing shall be set at approximately **350** feet (a minimum of **70 feet (Eddy County)** into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - 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.
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.
- Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst.**

Option 2:

Operator has proposed 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.

Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst.
 - ❖ In High Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
3. 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 surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M) psi**.

Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.

- a. 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.
- b. Manufacturer representative shall install the test plug for the initial BOP test.
- c. 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.
- d. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) 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.
- 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.

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
 - Notify the BLM when moving in and removing the Spudder Rig.
 - 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.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 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. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

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, 2) until cement has been in place at least 24 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-P 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 part 3170 Subpart 3172 and API STD 53 Sec. 5.3**.
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:
 - 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. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
 - e. 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.
 - a. 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).
 - b. 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.)
 - c. 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 Onshore Order 2

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 water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

- d. 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.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. 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.
- g. 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.
- h. 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 Onshore Order No. 2.

C. DRILLING MUD

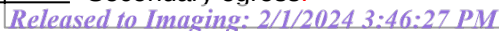
Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

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.

ZS071123



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

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 304036

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:
	229137
	Action Number:
	304036
Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)	

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Notify OCD 24 hours prior to casing & cement	2/1/2024
ward.rikala	Will require a File As Drilled C-102 and a Directional Survey with the C-104	2/1/2024
ward.rikala	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	2/1/2024
ward.rikala	Cement is required to circulate on both surface and intermediate1 strings of casing	2/1/2024
ward.rikala	If cement does not circulate on any string, a CBL is required for that string of casing	2/1/2024
ward.rikala	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	2/1/2024