

Form 3160-3
(June 2015)FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: ☒ DRILL ☐ REENTER 1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other 1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☒ Multiple Zone		5. Lease Serial No. NMNM92167 6. If Indian, Allottee or Tribe Name 7. If Unit or CA Agreement, Name and No. 8. Lease Name and Well No. FLAMING SNAIL FEDERAL COM 806H 9. API Well No. 30-015-54199
2. Name of Operator COG OPERATING LLC 3a. Address 600 West Illinois Ave, Midland, TX 79701 3b. Phone No. (include area code) (432) 683-7443		10. Field and Pool, or Exploratory Purple Sage/Wolfcamp (gas) 11. Sec., T. R. M. or Blk. and Survey or Area SEC 28/T25S/R27E/NMP
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NWNW / 557 FNL / 1589 FWL / LAT 32.106704 / LONG -104.198375 At proposed prod. zone SWSW / 200 FSL / 550 FWL / LAT 32.064906 / LONG -104.202234		12. County or Parish EDDY 13. State NM
14. Distance in miles and direction from nearest town or post office* 10 miles		15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 330 feet 16. No of acres in lease 1920.0 17. Spacing Unit dedicated to this well 1920.0
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 0 feet 19. Proposed Depth 9748 feet / 25318 feet 20. BLM/BIA Bond No. in file FED: NMB000215		21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3150 feet 22. Approximate date work will start* 06/01/2024 23. Estimated duration 30 days
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.
2. A Drilling Plan.
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). | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be requested by the BLM. |
|---|---|

25. Signature (Electronic Submission) Title Regulatory Advisor	Name (Printed/Typed) STAN WAGNER / Ph: (432) 683-7443	Date 10/06/2022
Approved by (Signature) (Electronic Submission) Title Assistant Field Manager Lands & Minerals	Name (Printed/Typed) CODY LAYTON / Ph: (575) 234-5959 Office Carlsbad Field Office	Date 08/25/2023

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: 08/25/2023

Additional Operator Remarks

Location of Well

0. SHL: NWNW / 557 FNL / 1589 FWL / TWSP: 25S / RANGE: 27E / SECTION: 28 / LAT: 32.106704 / LONG: -104.198375 (TVD: 0 feet, MD: 0 feet)
PPP: NWNW / 330 FNL / 550 FWL / TWSP: 25S / RANGE: 27E / SECTION: 28 / LAT: 32.107281 / LONG: -104.201732 (TVD: 9675 feet, MD: 9926 feet)
PPP: NWNW / 1 FNL / 550 FWL / TWSP: 25S / RANGE: 27E / SECTION: 33 / LAT: 32.093618 / LONG: -104.201894 (TVD: 9742 feet, MD: 14877 feet)
PPP: NWNW / 1 FNL / 550 FWL / TWSP: 26S / RANGE: 27E / SECTION: 4 / LAT: 32.079016 / LONG: -104.202067 (TVD: 9745 feet, MD: 20157 feet)
BHL: SWSW / 200 FSL / 550 FWL / TWSP: 26S / RANGE: 27E / SECTION: 4 / LAT: 32.064906 / LONG: -104.202234 (TVD: 9748 feet, MD: 25318 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) 746-1283 Fax: (575) 746-9720

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- 54199	Pool Code 98220	Pool Name Purple Sage; Wolfcamp (Gas)
Property Code 333880	Property Name FLAMING SNAIL FEDERAL COM	Well Number 806H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3150.7'

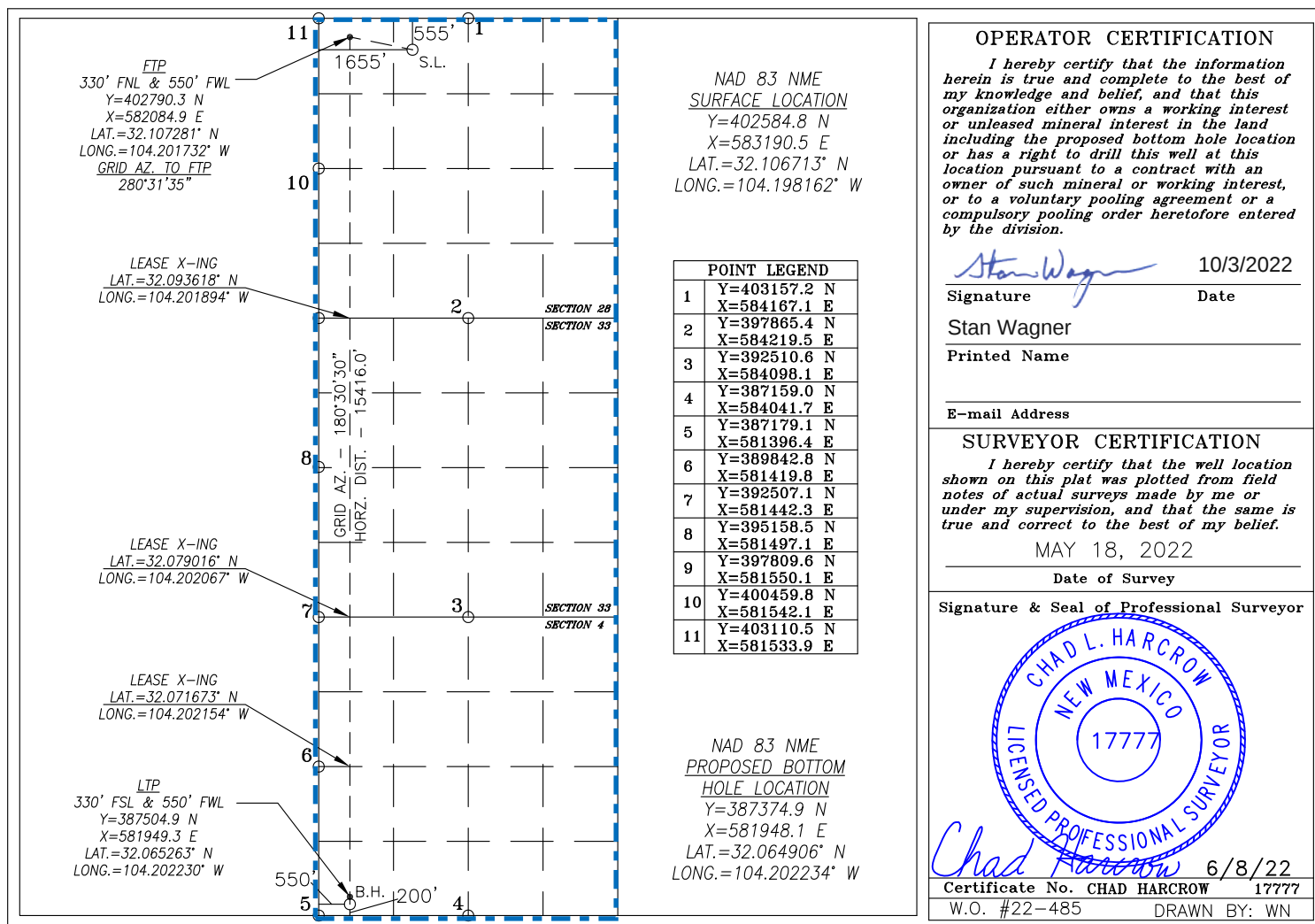
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	28	25-S	27-E		555	NORTH	1655	WEST	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
M	4	26-S	27-E		200	SOUTH	550	WEST	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

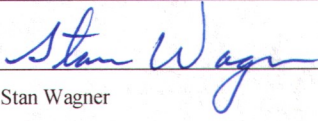
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(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 806H

1. Geologic Formations

TVD of target	9,748' EOL	Pilot hole depth	NA
MD at TD:	25,330'	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	543	Salt	
Base of Salt	1964	Salt	
Lamar	2138	Salt Water	
Bell Canyon	2207	Salt Water	
Cherry Canyon	2991	Oil/Gas	
Brushy Canyon	4077	Oil/Gas	
Bone Spring Lime	5678	Oil/Gas	
1st Bone Spring Sand	6606	Oil/Gas	
2nd Bone Spring Sand	7134	Oil/Gas	
3rd Bone Spring Sand	8443	Oil/Gas	
Wolfcamp	8771	Oil/Gas	
Wolfcamp C	9600	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	25,330	5.5"	23	P110	W441	2.29	2.71	3.25	2.95
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 806H

	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 806H

3. Cementing Program

Casing	# Sk	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
	1578	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 806H

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 806H

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 806H

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	6340 psi at 9748' 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	H ₂ S Plan.
x	BOP & Choke Schematics.
x	Directional Plan

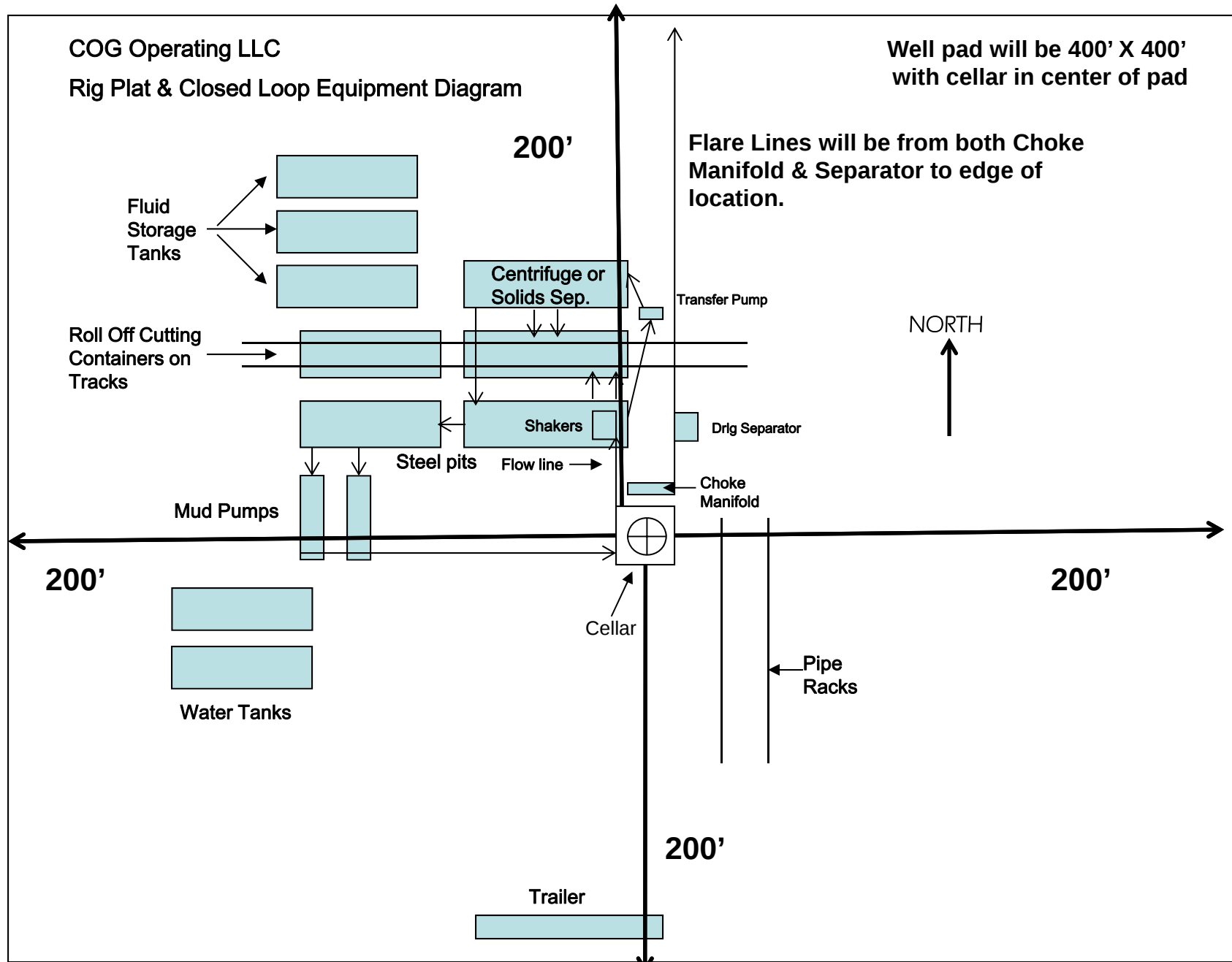


Exhibit 1

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

DELAWARE BASIN WEST

ATLAS PROSPECT (NM-E)

FLAMING SNAIL FED COM PROJECT

FLAMING SNAIL FEDERAL COM #806H

OWB

PWP1

Anticollision Report

24 September, 2022

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #806H	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	9,308.0	PWP1 (OWB)	r.5 MWD+IFR1	OWSG MWD + IFR1 rev.5	
9,308.0	25,330.7	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						
COTTONBERRY 20 FEDERAL COM #4H - OWB - AWP	7,603.0	11,975.0	1,270.6	1,163.7	11.885	CC, ES, SF
COTTONWOOD HILLS 32 STATE COM #5H - OWB - AWP						Out of range
FLAMING SNAIL FEDERAL COM #502H - OWB - PWP0						Out of range
FLAMING SNAIL FEDERAL COM #503H - OWB - PWP0	1,500.0	1,504.6	305.1	296.9	37.009	CC, ES
FLAMING SNAIL FEDERAL COM #503H - OWB - PWP0	2,565.0	2,573.0	414.1	401.8	33.617	SF
FLAMING SNAIL FEDERAL COM #504H - OWB - PWP0	3,932.4	3,994.9	299.0	274.1	12.042	CC
FLAMING SNAIL FEDERAL COM #504H - OWB - PWP0	4,100.0	4,161.2	299.7	273.4	11.397	ES
FLAMING SNAIL FEDERAL COM #504H - OWB - PWP0	5,100.0	5,153.4	332.6	299.4	10.005	SF
FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0						Out of range
FLAMING SNAIL FEDERAL COM #521H - OWB - PWP0	1,500.0	1,505.3	301.1	292.8	36.433	CC
FLAMING SNAIL FEDERAL COM #521H - OWB - PWP0	1,520.0	1,525.3	301.1	292.8	36.275	ES
FLAMING SNAIL FEDERAL COM #521H - OWB - PWP0	3,705.0	3,734.7	453.0	432.6	22.153	SF
FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1						Out of range
FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1						Out of range
FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1						Out of range
FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1	1,436.9	1,438.7	190.7	181.6	20.983	CC
FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1	1,500.0	1,501.8	190.7	181.5	20.677	ES
FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1	1,700.0	1,698.6	198.5	188.6	20.086	SF
FLAMING SNAIL FEDERAL COM #707H - OWB - PWP1	1,502.7	1,505.3	173.8	164.5	18.677	CC
FLAMING SNAIL FEDERAL COM #707H - OWB - PWP1	1,520.0	1,523.1	173.8	164.4	18.583	ES
FLAMING SNAIL FEDERAL COM #707H - OWB - PWP1	1,805.0	1,813.2	181.8	171.4	17.546	SF
FLAMING SNAIL FEDERAL COM #708H - OWB - PWP1	2,008.4	2,033.8	149.7	138.0	12.753	CC, ES
FLAMING SNAIL FEDERAL COM #708H - OWB - PWP1	25,330.7	24,170.7	1,246.0	1,004.2	5.153	SF
FLAMING SNAIL FEDERAL COM #709H - OWB - PWP1	4,593.1	4,619.0	106.9	75.7	3.434	CC
FLAMING SNAIL FEDERAL COM #709H - OWB - PWP1	4,655.0	4,678.8	107.4	75.6	3.376	ES
FLAMING SNAIL FEDERAL COM #709H - OWB - PWP1	4,750.0	4,770.6	110.6	77.7	3.354	SF
FLAMING SNAIL FEDERAL COM #710H - OWB - PWP1	1,514.7	1,519.3	150.0	140.5	15.826	CC
FLAMING SNAIL FEDERAL COM #710H - OWB - PWP1	1,615.0	1,621.3	150.2	140.4	15.449	ES
FLAMING SNAIL FEDERAL COM #710H - OWB - PWP1	25,330.7	24,229.3	800.3	553.8	3.246	SF
FLAMING SNAIL FEDERAL COM #802H - OWB - PWP1						Out of range
FLAMING SNAIL FEDERAL COM #803H - OWB - PWP1						Out of range
FLAMING SNAIL FEDERAL COM #804H - OWB - PWP1	1,500.0	1,499.9	59.9	51.0	6.747	CC, 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 #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #806H	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 #804H - OWB - PWP1	1,520.0	1,519.6	60.0	51.1	6.712	SF
FLAMING SNAIL FEDERAL COM #805H - OWB - PWP1	1,500.0	1,499.8	30.0	21.1	3.379	CC
FLAMING SNAIL FEDERAL COM #805H - OWB - PWP1	1,520.0	1,519.9	30.0	21.1	3.362	ES, SF
LEONARDO BKL FEDERAL COM #1 - OWB - AWP						Out of range
WHITE CITY 21 25 27 FEDERAL COM #5H - OWB - AW	7,008.2	6,868.7	166.5	122.4	3.779	CC
WHITE CITY 21 25 27 FEDERAL COM #5H - OWB - AW	7,030.0	6,889.2	166.5	122.3	3.768	ES, SF
WHITE CITY 21 25 27 FEDERAL COM #6H - OWB - AW	2,201.6	2,156.7	899.2	880.2	47.372	CC
WHITE CITY 21 25 27 FEDERAL COM #6H - OWB - AW	2,280.0	2,233.2	899.4	880.1	46.565	ES
WHITE CITY 21 25 27 FEDERAL COM #6H - OWB - AW	6,365.0	6,226.5	1,317.7	1,270.8	28.119	SF
POPULUS FEDERAL PROJECT (ATLAS 2527)						
POPULUS FEDERAL #2H - OWB - ACTUAL WELLPATH						Out of range
POPULUS FEDERAL #2H - OWB - Plan #3						Out of range

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 #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #806H	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						
COTTONBERRY 20 FEDERAL COM #4H - OWB - AWP	25,330.7	11,975.0				Out of Range @TD
COTTONWOOD HILLS 32 STATE COM #5H - OWB - AW	25,330.7	7,097.0				Out of Range @TD
FLAMING SNAIL FEDERAL COM #502H - OWB - PWP0	25,330.7	23,194.7				Out of Range @TD
FLAMING SNAIL FEDERAL COM #503H - OWB - PWP0	25,330.7	23,165.3				Out of Range @TD
FLAMING SNAIL FEDERAL COM #504H - OWB - PWP0	25,330.7	23,086.8				Out of Range @TD
FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0	25,330.7	23,585.9				Out of Range @TD
FLAMING SNAIL FEDERAL COM #521H - OWB - PWP0	25,330.7	23,475.4				Out of Range @TD
FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1	25,330.7	24,264.4				Out of Range @TD
FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1	25,330.7	24,302.7				Out of Range @TD
FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1	25,330.7	24,336.9				Out of Range @TD
FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1	25,330.7	24,278.2				Out of Range @TD
FLAMING SNAIL FEDERAL COM #707H - OWB - PWP1	25,330.7	24,197.9				Out of Range @TD
FLAMING SNAIL FEDERAL COM #708H - OWB - PWP1	25,330.7	24,170.7	1,246.0	1,004.2	5.153	SF
FLAMING SNAIL FEDERAL COM #709H - OWB - PWP1	25,330.7	24,202.6	928.6	684.3	3.802	
FLAMING SNAIL FEDERAL COM #710H - OWB - PWP1	25,330.7	24,229.3	800.3	553.8	3.246	SF
FLAMING SNAIL FEDERAL COM #802H - OWB - PWP1	25,330.7	25,371.3				Out of Range @TD
FLAMING SNAIL FEDERAL COM #803H - OWB - PWP1	25,330.7	25,417.4				Out of Range @TD
FLAMING SNAIL FEDERAL COM #804H - OWB - PWP1	25,330.7	25,359.2				Out of Range @TD
FLAMING SNAIL FEDERAL COM #805H - OWB - PWP1	25,330.7	25,284.5	880.3	639.3	3.653	
LEONARDO BKL FEDERAL COM #1 - OWB - AWP	25,330.7	9,750.0				Out of Range @TD
WHITE CITY 21 25 27 FEDERAL COM #5H - OWB - AW	25,330.7	7,030.0				Out of Range @TD
WHITE CITY 21 25 27 FEDERAL COM #6H - OWB - AW	25,330.7	7,086.0				Out of Range @TD
POPULUS FEDERAL PROJECT (ATLAS 2527)						
POPULUS FEDERAL #2H - OWB - ACTUAL WELLPATH	25,330.7	12,200.0				Out of Range @TD
POPULUS FEDERAL #2H - OWB - Plan #3	25,330.7	12,231.5				Out of Range @TD

Offset Design:		FLAMING SNAIL FED COM PROJECT - COTTONBERRY 20 FEDERAL COM #4H - OWB - AWP										Offset Site Error:		0.0 usft
Survey Program:		169-MWD										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)				
7,300.0	7,159.0	11,975.0	7,444.8	28.4	82.3	-73.07	855.4	-2,318.8	1,306.2	1,203.0	103.23	12.653		
7,315.0	7,174.0	11,975.0	7,444.8	28.4	82.3	-73.07	855.4	-2,318.8	1,302.8	1,199.3	103.51	12.586		
7,400.0	7,259.0	11,975.0	7,444.8	28.4	82.3	-73.07	855.4	-2,318.8	1,286.7	1,181.8	104.91	12.265		
7,410.0	7,269.0	11,975.0	7,444.8	28.4	82.3	-73.07	855.4	-2,318.8	1,285.2	1,180.1	105.05	12.234		
7,500.0	7,359.0	11,975.0	7,444.8	28.5	82.3	-73.07	855.4	-2,318.8	1,274.8	1,168.6	106.14	12.010		

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 #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #806H	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 - COTTONBERRY 20 FEDERAL COM #4H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 169-MWD													Offset Well Error:	3.0 usft
Reference	Rule Assigned:													
Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
7,505.0	7,364.0	11,975.0	7,444.8	28.5	82.3	-73.07	855.4	-2,318.8	1,274.4	1,168.2	106.19	12.000		
7,600.0	7,459.0	11,975.0	7,444.8	28.5	82.3	-73.07	855.4	-2,318.8	1,270.6	1,163.7	106.90	11.886		
7,603.0	7,462.0	11,975.0	7,444.8	28.5	82.3	-73.07	855.4	-2,318.8	1,270.6	1,163.7	106.91	11.885	CC, ES, SF	
7,695.0	7,554.0	11,975.0	7,444.8	28.5	82.3	-73.07	855.4	-2,318.8	1,273.9	1,166.8	107.14	11.890		
7,700.0	7,559.0	11,975.0	7,444.8	28.5	82.3	-73.07	855.4	-2,318.8	1,274.3	1,167.2	107.14	11.894		
7,790.0	7,649.0	11,975.0	7,444.8	28.6	82.3	-73.07	855.4	-2,318.8	1,284.3	1,177.4	106.93	12.010		
7,800.0	7,659.0	11,975.0	7,444.8	28.6	82.3	-73.07	855.4	-2,318.8	1,285.8	1,178.9	106.88	12.030		
7,885.0	7,744.0	11,975.0	7,444.8	28.6	82.3	-73.07	855.4	-2,318.8	1,301.5	1,195.2	106.30	12.244		
7,900.0	7,759.0	11,975.0	7,444.8	28.6	82.3	-73.07	855.4	-2,318.8	1,304.8	1,198.7	106.16	12.291		

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 #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #806H	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						Rule Assigned:				Offset Well Error:	3.0 usft	
Measured	Reference	Offset	Offset	Reference	Offset	Highside	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
0.0	0.0	4.6	4.6	3.0	3.0	168.49	-299.0	60.9	305.1					
95.0	95.0	99.6	99.6	3.0	3.0	168.49	-299.0	60.9	305.1	299.1	6.02	50.704		
100.0	100.0	104.6	104.6	3.0	3.0	168.49	-299.0	60.9	305.1	299.1	6.02	50.678		
190.0	190.0	194.6	194.6	3.1	3.0	168.49	-299.0	60.9	305.1	299.0	6.13	49.747		
200.0	200.0	204.6	204.6	3.1	3.0	168.49	-299.0	60.9	305.1	299.0	6.15	49.600		
285.0	285.0	289.6	289.6	3.3	3.0	168.49	-299.0	60.9	305.1	298.9	6.26	48.709		
300.0	300.0	304.6	304.6	3.3	3.0	168.49	-299.0	60.9	305.1	298.9	6.29	48.532		
380.0	380.0	384.6	384.6	3.4	3.0	168.49	-299.0	60.9	305.1	298.7	6.40	47.699		
400.0	400.0	404.6	404.6	3.4	3.0	168.49	-299.0	60.9	305.1	298.7	6.43	47.476		
475.0	475.0	479.6	479.6	3.5	3.0	168.49	-299.0	60.9	305.1	298.6	6.53	46.702		
500.0	500.0	504.6	504.6	3.5	3.1	168.49	-299.0	60.9	305.1	298.6	6.57	46.433		
570.0	570.0	574.6	574.6	3.6	3.1	168.49	-299.0	60.9	305.1	298.5	6.67	45.719		
600.0	600.0	604.6	604.6	3.6	3.1	168.49	-299.0	60.9	305.1	298.4	6.72	45.405		
665.0	665.0	669.6	669.6	3.7	3.1	168.49	-299.0	60.9	305.1	298.3	6.82	44.751		
700.0	700.0	704.6	704.6	3.8	3.1	168.49	-299.0	60.9	305.1	298.3	6.87	44.392		
760.0	760.0	764.6	764.6	3.8	3.1	168.49	-299.0	60.9	305.1	298.2	6.97	43.798		
800.0	800.0	804.6	804.6	3.9	3.2	168.49	-299.0	60.9	305.1	298.1	7.03	43.397		
855.0	855.0	859.6	859.6	4.0	3.2	168.49	-299.0	60.9	305.1	298.0	7.12	42.862		
900.0	900.0	904.6	904.6	4.0	3.2	168.49	-299.0	60.9	305.1	297.9	7.19	42.420		
950.0	950.0	954.6	954.6	4.1	3.2	168.49	-299.0	60.9	305.1	297.9	7.28	41.943		
1,000.0	1,000.0	1,004.6	1,004.6	4.1	3.2	168.49	-299.0	60.9	305.1	297.8	7.36	41.464		
1,045.0	1,045.0	1,049.6	1,049.6	4.2	3.3	168.49	-299.0	60.9	305.1	297.7	7.43	41.043		
1,100.0	1,100.0	1,104.6	1,104.6	4.2	3.3	168.49	-299.0	60.9	305.1	297.6	7.53	40.528		
1,140.0	1,140.0	1,144.6	1,144.6	4.3	3.3	168.49	-299.0	60.9	305.1	297.5	7.60	40.162		
1,200.0	1,200.0	1,204.6	1,204.6	4.4	3.4	168.49	-299.0	60.9	305.1	297.4	7.70	39.614		
1,235.0	1,235.0	1,239.6	1,239.6	4.4	3.4	168.49	-299.0	60.9	305.1	297.4	7.76	39.301		
1,300.0	1,300.0	1,304.6	1,304.6	4.5	3.4	168.49	-299.0	60.9	305.1	297.3	7.88	38.723		
1,330.0	1,330.0	1,334.6	1,334.6	4.5	3.4	168.49	-299.0	60.9	305.1	297.2	7.93	38.461		
1,400.0	1,400.0	1,404.6	1,404.6	4.6	3.5	168.49	-299.0	60.9	305.1	297.1	8.06	37.854		
1,425.0	1,425.0	1,429.6	1,429.6	4.6	3.5	168.49	-299.0	60.9	305.1	297.0	8.11	37.642		
1,500.0	1,500.0	1,504.6	1,504.6	4.7	3.5	168.49	-299.0	60.9	305.1	296.9	8.24	37.009 CC, ES		
1,520.0	1,520.0	1,524.6	1,524.6	4.7	3.6	-125.27	-299.0	60.9	305.2	296.9	8.28	36.847		
1,600.0	1,600.0	1,604.6	1,604.6	4.8	3.6	-125.51	-299.0	60.9	306.1	297.7	8.45	36.249		
1,615.0	1,615.0	1,619.6	1,619.6	4.9	3.6	-125.59	-299.0	60.9	306.5	298.0	8.48	36.123		
1,700.0	1,699.8	1,704.4	1,704.4	5.0	3.7	-126.25	-299.0	60.9	309.2	300.5	8.71	35.507		
1,710.0	1,709.8	1,714.4	1,714.4	5.1	3.7	-126.35	-299.0	60.9	309.6	300.9	8.74	35.448		
1,800.0	1,799.5	1,804.1	1,804.1	5.3	3.8	-127.44	-299.0	60.9	314.5	305.5	8.98	35.011		
1,805.0	1,804.4	1,809.0	1,809.0	5.3	3.8	-127.51	-299.0	60.9	314.8	305.8	9.00	34.993		
1,900.0	1,898.7	1,903.3	1,903.3	5.6	3.9	-129.04	-299.0	60.9	322.0	312.8	9.27	34.739		
1,995.0	1,992.5	1,997.1	1,997.1	5.9	3.9	-130.86	-299.0	60.9	331.6	322.0	9.56	34.672		
2,000.0	1,997.5	2,002.2	2,002.2	5.9	3.9	-130.97	-299.0	60.9	332.2	322.6	9.58	34.665		
2,090.0	2,085.8	2,096.3	2,096.2	6.2	4.1	-133.30	-297.8	61.9	342.9	332.9	9.96	34.435		
2,100.0	2,095.6	2,106.6	2,106.6	6.3	4.2	-133.59	-297.5	62.2	344.2	334.1	10.00	34.405		
2,185.0	2,178.5	2,194.2	2,194.1	6.6	4.4	-136.37	-293.9	65.1	355.6	345.1	10.43	34.091		
2,200.0	2,193.0	2,209.5	2,209.3	6.6	4.4	-136.90	-293.1	65.8	357.7	347.2	10.51	34.050		
2,280.0	2,270.7	2,290.8	2,290.3	6.9	4.7	-139.98	-287.7	70.3	369.4	358.5	10.89	33.927		
2,300.0	2,290.1	2,311.0	2,310.3	6.9	4.7	-140.76	-286.0	71.7	372.4	361.4	10.99	33.898		
2,375.0	2,362.9	2,386.2	2,385.0	7.2	5.0	-143.75	-279.0	77.5	383.6	372.2	11.35	33.784		
2,400.0	2,387.1	2,411.1	2,409.7	7.3	5.1	-144.76	-276.4	79.7	387.4	375.9	11.48	33.752		
2,470.0	2,455.0	2,480.3	2,478.1	7.5	5.3	-147.63	-268.1	86.6	398.4	386.5	11.83	33.670		
2,500.0	2,484.1	2,509.8	2,507.1	7.6	5.4	-148.86	-264.2	89.8	403.2	391.2	11.98	33.648		

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 #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #806H	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						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		
2,565.0	2,547.2	2,573.0	2,569.2	7.8	5.6	-151.56	-255.1	97.4	414.1	401.8	12.32	33.617	SF	
2,600.0	2,581.2	2,606.8	2,602.2	8.0	5.8	-153.02	-249.8	101.9	420.3	407.8	12.50	33.620		
2,660.0	2,639.4	2,664.1	2,658.1	8.2	6.0	-155.52	-240.1	109.9	431.3	418.5	12.82	33.648		
2,700.0	2,678.2	2,701.9	2,694.9	8.3	6.1	-157.18	-233.3	115.6	439.0	426.0	13.03	33.699		
2,755.0	2,731.6	2,753.0	2,744.4	8.5	6.3	-159.42	-223.5	123.8	450.2	436.9	13.28	33.893		
2,800.0	2,775.2	2,794.6	2,784.6	8.7	6.4	-161.18	-215.5	130.4	459.8	446.3	13.51	34.048		
2,850.0	2,823.7	2,840.7	2,829.3	8.9	6.6	-163.05	-206.6	137.8	471.1	457.3	13.78	34.187		
2,900.0	2,872.3	2,886.8	2,873.9	9.1	6.7	-164.85	-197.7	145.2	482.8	468.8	14.06	34.343		
2,945.0	2,915.9	2,928.3	2,914.1	9.3	6.9	-166.40	-189.7	151.9	493.8	479.5	14.32	34.494		
3,000.0	2,969.3	2,979.1	2,963.3	9.5	7.1	-168.20	-180.0	160.0	507.7	493.1	14.63	34.697		
3,040.0	3,008.1	3,016.0	2,999.0	9.7	7.2	-169.46	-172.9	165.9	518.1	503.2	14.87	34.850		
3,100.0	3,066.3	3,071.3	3,052.6	9.9	7.4	-171.26	-162.2	174.8	534.2	519.0	15.22	35.091		
3,135.0	3,100.3	3,103.6	3,083.9	10.1	7.5	-172.26	-156.0	180.0	543.8	528.4	15.43	35.233		
3,200.0	3,163.4	3,163.6	3,141.9	10.4	7.8	-174.04	-144.5	189.6	562.1	546.3	15.83	35.506		
3,230.0	3,192.5	3,191.3	3,168.7	10.5	7.9	-174.83	-139.1	194.0	570.7	554.7	16.02	35.632		
3,300.0	3,260.4	3,255.9	3,231.2	10.8	8.2	-176.58	-126.7	204.4	591.2	574.8	16.46	35.929		
3,325.0	3,284.6	3,278.9	3,253.6	10.9	8.2	-177.18	-122.3	208.1	598.7	582.1	16.61	36.034		
3,400.0	3,357.4	3,348.1	3,320.6	11.2	8.5	-178.89	-109.0	219.2	621.4	604.3	17.09	36.350		
3,420.0	3,376.8	3,366.6	3,338.4	11.3	8.6	-179.32	-105.4	222.1	627.5	610.3	17.22	36.433		
3,500.0	3,454.4	3,440.4	3,409.9	11.7	8.9	-179.01	-91.2	233.9	652.4	634.6	17.75	36.763		
3,515.0	3,469.0	3,454.2	3,423.3	11.7	9.0	-178.71	-88.5	236.2	657.1	639.3	17.85	36.823		
3,600.0	3,551.5	3,532.7	3,499.2	12.1	9.3	-177.09	-73.5	248.7	684.2	665.8	18.41	37.163		
3,610.0	3,561.2	3,541.9	3,508.1	12.1	9.4	-176.90	-71.7	250.2	687.4	668.9	18.48	37.202		
3,700.0	3,648.5	3,624.9	3,588.5	12.5	9.7	-175.33	-55.7	263.5	716.6	697.6	19.09	37.549		
3,705.0	3,653.4	3,629.5	3,593.0	12.6	9.7	-175.25	-54.8	264.2	718.3	699.2	19.12	37.568		
3,800.0	3,745.5	3,717.2	3,677.9	13.0	10.1	-173.72	-37.9	278.3	749.7	729.9	19.77	37.919		
3,895.0	3,837.7	3,804.8	3,762.7	13.4	10.5	-172.31	-21.1	292.3	781.5	761.1	20.43	38.255		
3,900.0	3,842.6	3,809.5	3,767.2	13.4	10.5	-172.24	-20.2	293.1	783.2	762.8	20.46	38.272		
3,990.0	3,929.9	3,892.5	3,847.6	13.8	10.9	-171.01	-4.2	306.4	813.8	792.7	21.10	38.576		
4,000.0	3,939.6	3,901.7	3,856.5	13.9	10.9	-170.88	-2.4	307.9	817.2	796.1	21.17	38.609		
4,085.0	4,022.1	3,980.1	3,932.4	14.3	11.3	-169.80	12.7	320.4	846.4	824.6	21.77	38.883		
4,100.0	4,036.6	3,994.0	3,945.8	14.3	11.4	-169.62	15.3	322.7	851.6	829.7	21.88	38.930		
4,180.0	4,114.2	4,067.8	4,017.3	14.7	11.7	-168.69	29.5	334.5	879.3	856.9	22.45	39.175		
4,200.0	4,133.6	4,086.2	4,035.2	14.8	11.8	-168.46	33.1	337.4	886.3	863.7	22.59	39.235		
4,275.0	4,206.4	4,155.4	4,102.2	15.1	12.1	-167.65	46.4	348.5	912.6	889.4	23.13	39.454		
4,300.0	4,230.7	4,178.5	4,124.5	15.3	12.2	-167.38	50.8	352.2	921.3	898.0	23.31	39.526		
4,370.0	4,298.6	4,243.1	4,187.0	15.6	12.5	-166.68	63.3	362.6	946.0	922.2	23.82	39.720		
4,400.0	4,327.7	4,270.8	4,213.8	15.7	12.6	-166.39	68.6	367.0	956.6	932.6	24.04	39.802		
4,465.0	4,390.8	4,330.7	4,271.9	16.0	12.9	-165.77	80.1	376.6	979.7	955.2	24.51	39.974		
4,500.0	4,424.7	4,363.0	4,303.1	16.2	13.0	-165.46	86.3	381.8	992.2	967.4	24.76	40.065		
4,560.0	4,483.0	4,418.4	4,356.7	16.5	13.3	-164.93	97.0	390.7	1,013.6	988.4	25.20	40.216		
4,600.0	4,521.8	4,455.3	4,392.5	16.7	13.5	-164.59	104.1	396.6	1,028.0	1,002.5	25.50	40.315		
4,655.0	4,575.1	4,506.0	4,441.6	16.9	13.7	-164.14	113.9	404.7	1,047.7	1,021.8	25.90	40.447		
4,700.0	4,618.8	4,547.6	4,481.8	17.1	13.9	-163.78	121.9	411.4	1,063.9	1,037.7	26.24	40.553		
4,750.0	4,667.3	4,593.7	4,526.4	17.4	14.1	-163.39	130.7	418.8	1,082.0	1,055.4	26.61	40.667		
4,800.0	4,715.8	4,639.8	4,571.1	17.6	14.3	-163.02	139.6	426.2	1,100.0	1,073.1	26.98	40.779		
4,845.0	4,759.5	4,681.4	4,611.3	17.8	14.5	-162.70	147.6	432.8	1,116.4	1,089.0	27.31	40.878		
4,900.0	4,812.9	4,732.1	4,660.4	18.1	14.8	-162.31	157.4	440.9	1,136.3	1,108.6	27.72	40.995		
4,940.0	4,851.7	4,769.0	4,696.2	18.2	14.9	-162.04	164.5	446.9	1,150.9	1,122.9	28.02	41.079		
5,000.0	4,909.9	4,824.4	4,749.8	18.5	15.2	-161.65	175.1	455.7	1,172.8	1,144.3	28.46	41.201		
5,035.0	4,943.8	4,856.7	4,781.0	18.7	15.4	-161.42	181.3	460.9	1,185.6	1,156.8	28.73	41.271		

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 #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #806H	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 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	
5,100.0	5,006.9	4,916.6	4,839.1	19.0	15.6	161.02	192.9	470.5	1,209.3	1,180.1	29.21	41.398	
5,130.0	5,036.0	4,944.3	4,865.9	19.1	15.8	160.84	198.2	474.9	1,220.3	1,190.9	29.44	41.455	
5,200.0	5,103.9	5,008.9	4,928.4	19.5	16.1	160.43	210.6	485.3	1,246.0	1,216.1	29.96	41.586	
5,225.0	5,128.2	5,032.0	4,950.7	19.6	16.2	160.28	215.1	489.0	1,255.2	1,225.1	30.15	41.631	
5,300.0	5,201.0	5,101.2	5,017.7	19.9	16.5	159.87	228.4	500.1	1,282.8	1,252.1	30.72	41.765	
5,320.0	5,220.4	5,119.6	5,035.6	20.0	16.6	159.76	231.9	503.0	1,290.2	1,259.3	30.87	41.800	
5,400.0	5,298.0	5,193.4	5,107.0	20.4	17.0	159.34	246.1	514.9	1,319.7	1,288.3	31.47	41.936	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #806H	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 #504H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7065-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	5.5	5.5	3.0	3.0	179.83	179.83	-300.0	0.9	300.0				
95.0	95.0	100.5	100.5	3.0	3.0	179.83	179.83	-300.0	0.9	300.0	294.0	6.02	49.850	
100.0	100.0	105.5	105.5	3.0	3.0	179.83	179.83	-300.0	0.9	300.0	294.0	6.02	49.825	
190.0	190.0	195.5	195.5	3.1	3.0	179.83	179.83	-300.0	0.9	300.0	293.9	6.13	48.907	
200.0	200.0	205.5	205.5	3.1	3.0	179.83	179.83	-300.0	0.9	300.0	293.8	6.15	48.762	
285.0	285.0	290.5	290.5	3.3	3.0	179.83	179.83	-300.0	0.9	300.0	293.7	6.27	47.882	
300.0	300.0	305.5	305.5	3.3	3.0	179.83	179.83	-300.0	0.9	300.0	293.7	6.29	47.707	
380.0	380.0	385.5	385.5	3.4	3.0	179.83	179.83	-300.0	0.9	300.0	293.6	6.40	46.883	
400.0	400.0	405.5	405.5	3.4	3.0	179.83	179.83	-300.0	0.9	300.0	293.6	6.43	46.663	
475.0	475.0	480.5	480.5	3.5	3.0	179.83	179.83	-300.0	0.9	300.0	293.5	6.54	45.896	
500.0	500.0	505.5	505.5	3.5	3.1	179.83	179.83	-300.0	0.9	300.0	293.4	6.57	45.630	
570.0	570.0	575.5	575.5	3.6	3.1	179.83	179.83	-300.0	0.9	300.0	293.3	6.68	44.922	
600.0	600.0	605.5	605.5	3.6	3.1	179.83	179.83	-300.0	0.9	300.0	293.3	6.72	44.610	
665.0	665.0	670.5	670.5	3.7	3.1	179.83	179.83	-300.0	0.9	300.0	293.2	6.82	43.961	
700.0	700.0	705.5	705.5	3.8	3.1	179.83	179.83	-300.0	0.9	300.0	293.1	6.88	43.605	
760.0	760.0	765.5	765.5	3.8	3.1	179.83	179.83	-300.0	0.9	300.0	293.0	6.97	43.015	
800.0	800.0	805.5	805.5	3.9	3.2	179.83	179.83	-300.0	0.9	300.0	293.0	7.04	42.617	
855.0	855.0	860.5	860.5	4.0	3.2	179.83	179.83	-300.0	0.9	300.0	292.9	7.13	42.085	
900.0	900.0	905.5	905.5	4.0	3.2	179.83	179.83	-300.0	0.9	300.0	292.8	7.20	41.647	
950.0	950.0	955.5	955.5	4.1	3.2	179.83	179.83	-300.0	0.9	300.0	292.7	7.29	41.172	
1,000.0	1,000.0	1,005.5	1,005.5	4.1	3.2	179.83	179.83	-300.0	0.9	300.0	292.6	7.37	40.696	
1,045.0	1,045.0	1,050.5	1,050.5	4.2	3.3	179.83	179.83	-300.0	0.9	300.0	292.6	7.45	40.278	
1,100.0	1,100.0	1,105.5	1,105.5	4.2	3.3	179.83	179.83	-300.0	0.9	300.0	292.5	7.54	39.767	
1,140.0	1,140.0	1,145.5	1,145.5	4.3	3.3	179.83	179.83	-300.0	0.9	300.0	292.4	7.61	39.403	
1,200.0	1,200.0	1,205.5	1,205.5	4.4	3.4	179.83	179.83	-300.0	0.9	300.0	292.3	7.72	38.859	
1,235.0	1,235.0	1,240.5	1,240.5	4.4	3.4	179.83	179.83	-300.0	0.9	300.0	292.2	7.78	38.548	
1,300.0	1,300.0	1,305.5	1,305.5	4.5	3.4	179.83	179.83	-300.0	0.9	300.0	292.1	7.90	37.973	
1,330.0	1,330.0	1,335.5	1,335.5	4.5	3.4	179.83	179.83	-300.0	0.9	300.0	292.0	7.95	37.713	
1,400.0	1,400.0	1,405.5	1,405.5	4.6	3.5	179.83	179.83	-300.0	0.9	300.0	291.9	8.08	37.110	
1,425.0	1,425.0	1,430.5	1,430.5	4.6	3.5	179.83	179.83	-300.0	0.9	300.0	291.9	8.13	36.900	
1,500.0	1,500.0	1,505.5	1,505.5	4.7	3.6	179.83	179.83	-300.0	0.9	300.0	291.7	8.27	36.271	
1,520.0	1,520.0	1,525.5	1,525.5	4.7	3.6	-113.93	-113.93	-300.0	0.9	300.0	291.7	8.31	36.114	
1,600.0	1,600.0	1,605.5	1,605.5	4.8	3.6	-114.21	-114.21	-300.0	0.9	300.7	292.3	8.46	35.556	
1,615.0	1,615.0	1,620.5	1,620.5	4.9	3.6	-114.30	-114.30	-300.0	0.9	300.9	292.5	8.49	35.431	
1,700.0	1,699.8	1,705.3	1,705.3	5.0	3.7	-115.07	-115.07	-300.0	0.9	302.9	294.2	8.71	34.794	
1,710.0	1,709.8	1,715.3	1,715.3	5.1	3.7	-115.19	-115.19	-300.0	0.9	303.2	294.5	8.73	34.728	
1,800.0	1,799.5	1,805.0	1,805.0	5.3	3.8	-116.47	-116.47	-300.0	0.9	306.7	297.7	8.96	34.219	
1,805.0	1,804.4	1,809.9	1,809.9	5.3	3.8	-116.56	-116.56	-300.0	0.9	306.9	298.0	8.98	34.195	
1,900.0	1,898.7	1,904.2	1,904.2	5.6	3.9	-118.36	-118.36	-300.0	0.9	312.3	303.1	9.23	33.823	
1,995.0	1,992.5	1,998.0	1,998.0	5.9	3.9	-120.55	-120.55	-300.0	0.9	319.7	310.2	9.51	33.609	
2,000.0	1,997.5	2,003.3	2,003.3	5.9	3.9	-120.68	-120.68	-300.0	0.9	320.1	310.6	9.53	33.588	
2,090.0	2,085.8	2,101.8	2,101.8	6.2	4.2	-123.21	-123.21	-298.5	-0.2	327.8	317.8	9.96	32.912	
2,100.0	2,095.6	2,112.7	2,112.7	6.3	4.2	-123.49	-123.49	-298.2	-0.4	328.6	318.6	10.01	32.812	
2,185.0	2,178.5	2,206.2	2,206.0	6.6	4.4	-125.97	-125.97	-294.0	-3.5	335.2	324.7	10.51	31.899	
2,200.0	2,193.0	2,222.7	2,222.5	6.6	4.5	-126.42	-126.42	-293.0	-4.2	336.3	325.7	10.60	31.734	
2,280.0	2,270.7	2,311.3	2,310.6	6.9	4.8	-128.77	-128.77	-286.4	-9.1	341.4	330.3	11.08	30.813	
2,300.0	2,290.1	2,333.5	2,332.7	6.9	4.8	-129.33	-129.33	-284.4	-10.6	342.4	331.2	11.20	30.560	
2,375.0	2,362.9	2,417.1	2,415.6	7.2	5.1	-131.30	-131.30	-275.6	-17.0	345.0	333.3	11.68	29.524	
2,400.0	2,387.1	2,445.1	2,443.3	7.3	5.2	-131.93	-131.93	-272.2	-19.5	345.5	333.6	11.85	29.152	
2,470.0	2,455.0	2,523.5	2,520.6	7.5	5.5	-133.59	-133.59	-261.5	-27.3	345.8	333.4	12.33	28.037	
2,500.0	2,484.1	2,557.2	2,553.7	7.6	5.6	-134.28	-134.28	-256.5	-31.1	345.4	332.8	12.54	27.535	

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 #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #806H	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 #504H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7065-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		
2,565.0	2,547.2	2,630.1	2,625.1	7.8	5.9	-135.71	-244.4	-39.9	343.6	330.6	13.02	26.393		
2,600.0	2,581.2	2,669.4	2,663.3	8.0	6.0	-136.45	-237.2	-45.2	342.0	328.7	13.28	25.757		
2,660.0	2,639.4	2,732.5	2,724.6	8.2	6.3	-137.63	-225.1	-54.1	338.6	324.9	13.72	24.685		
2,700.0	2,678.2	2,772.2	2,763.1	8.3	6.4	-138.38	-217.3	-59.8	336.3	322.3	14.00	24.017		
2,755.0	2,731.6	2,826.7	2,816.0	8.5	6.6	-139.42	-206.7	-67.6	333.2	318.8	14.41	23.127		
2,800.0	2,775.2	2,871.4	2,859.3	8.7	6.7	-140.29	-198.0	-74.0	330.7	316.0	14.75	22.428		
2,850.0	2,823.7	2,921.0	2,907.5	8.9	6.9	-141.27	-188.3	-81.1	328.1	313.0	15.14	21.678		
2,900.0	2,872.3	2,970.6	2,955.6	9.1	7.1	-142.27	-178.6	-88.2	325.6	310.1	15.53	20.960		
2,945.0	2,915.9	3,015.2	2,998.9	9.3	7.3	-143.18	-169.9	-94.6	323.4	307.5	15.90	20.340		
3,000.0	2,969.3	3,069.8	3,051.9	9.5	7.5	-144.31	-159.3	-102.4	320.8	304.5	16.36	19.616		
3,040.0	3,008.1	3,109.5	3,090.4	9.7	7.6	-145.14	-151.5	-108.1	319.1	302.4	16.70	19.111		
3,100.0	3,066.3	3,169.0	3,148.2	9.9	7.8	-146.40	-139.9	-116.6	316.5	299.3	17.21	18.391		
3,135.0	3,100.3	3,203.8	3,181.8	10.1	8.0	-147.15	-133.1	-121.5	315.1	297.6	17.52	17.989		
3,200.0	3,163.4	3,268.2	3,244.4	10.4	8.2	-148.55	-120.6	-130.8	312.6	294.6	18.09	17.280		
3,230.0	3,192.5	3,298.0	3,273.3	10.5	8.4	-149.21	-114.8	-135.0	311.6	293.2	18.36	16.969		
3,300.0	3,260.4	3,367.5	3,340.7	10.8	8.7	-150.75	-101.2	-145.0	309.2	290.2	18.99	16.279		
3,325.0	3,284.6	3,392.3	3,364.8	10.9	8.8	-151.31	-96.4	-148.5	308.4	289.2	19.22	16.045		
3,400.0	3,357.4	3,466.7	3,437.0	11.2	9.1	-152.99	-81.9	-159.2	306.3	286.4	19.91	15.381		
3,420.0	3,376.8	3,486.5	3,456.2	11.3	9.1	-153.45	-78.0	-162.0	305.7	285.6	20.10	15.213		
3,500.0	3,454.4	3,565.9	3,533.2	11.7	9.5	-155.28	-62.5	-173.4	303.8	283.0	20.84	14.578		
3,515.0	3,469.0	3,580.8	3,547.7	11.7	9.5	-155.62	-59.6	-175.5	303.5	282.5	20.98	14.465		
3,600.0	3,551.5	3,665.1	3,629.5	12.1	9.9	-157.59	-43.2	-187.6	301.8	280.1	21.77	13.863		
3,610.0	3,561.2	3,675.0	3,639.1	12.1	10.0	-157.83	-41.2	-189.0	301.7	279.8	21.87	13.797		
3,700.0	3,648.5	3,764.3	3,725.8	12.5	10.3	-159.94	-23.8	-201.8	300.4	277.7	22.70	13.231		
3,705.0	3,653.4	3,769.3	3,730.6	12.6	10.4	-160.05	-22.8	-202.5	300.3	277.6	22.75	13.201		
3,800.0	3,745.5	3,863.5	3,822.0	13.0	10.8	-162.30	-4.4	-216.0	299.4	275.8	23.62	12.674		
3,895.0	3,837.7	3,957.8	3,913.5	13.4	11.2	-164.55	13.9	-229.5	299.0	274.5	24.49	12.209		
3,900.0	3,842.6	3,962.8	3,918.3	13.4	11.2	-164.67	14.9	-230.2	299.0	274.5	24.53	12.186		
3,932.4	3,874.0	3,994.9	3,949.5	13.6	11.4	-165.44	21.2	-234.8	299.0	274.1	24.83	12.042 CC		
3,990.0	3,929.9	4,052.1	4,005.0	13.8	11.6	-166.81	32.3	-243.0	299.1	273.7	25.34	11.802		
4,000.0	3,939.6	4,062.0	4,014.6	13.9	11.7	-167.04	34.3	-244.4	299.1	273.7	25.43	11.762		
4,085.0	4,022.1	4,146.3	4,096.4	14.3	12.0	-169.06	50.7	-256.4	299.6	273.4	26.17	11.448		
4,100.0	4,036.6	4,161.2	4,110.8	14.3	12.1	-169.41	53.6	-258.6	299.7	273.4	26.30	11.397 ES		
4,180.0	4,114.2	4,240.6	4,187.9	14.7	12.5	-171.30	69.1	-269.9	300.6	273.6	26.97	11.142		
4,200.0	4,133.6	4,260.4	4,207.1	14.8	12.6	-171.77	73.0	-272.8	300.8	273.7	27.14	11.084		
4,275.0	4,206.4	4,334.8	4,279.3	15.1	12.9	-173.52	87.5	-283.4	302.0	274.3	27.75	10.882		
4,300.0	4,230.7	4,359.6	4,303.4	15.3	13.0	-174.10	92.3	-287.0	302.5	274.5	27.96	10.820		
4,370.0	4,298.6	4,429.1	4,370.8	15.6	13.3	-175.72	105.9	-296.9	303.9	275.4	28.51	10.662		
4,400.0	4,327.7	4,458.8	4,399.7	15.7	13.5	-176.41	111.7	-301.2	304.6	275.9	28.74	10.600		
4,465.0	4,390.8	4,523.3	4,462.2	16.0	13.8	-177.89	124.2	-310.4	306.3	277.0	29.23	10.479		
4,500.0	4,424.7	4,558.1	4,495.9	16.2	13.9	-178.68	131.0	-315.4	307.3	277.8	29.49	10.421		
4,560.0	4,483.0	4,617.6	4,553.7	16.5	14.2	-179.98	142.6	-323.9	309.1	279.2	29.92	10.331		
4,600.0	4,521.8	4,657.3	4,592.2	16.7	14.4	-179.09	150.4	-329.6	310.4	280.2	30.20	10.278		
4,655.0	4,575.1	4,711.9	4,645.1	16.9	14.7	-177.89	161.0	-337.4	312.3	281.7	30.58	10.213		
4,700.0	4,618.8	4,756.5	4,688.5	17.1	14.9	-176.91	169.7	-343.8	314.0	283.1	30.88	10.168		
4,750.0	4,667.3	4,806.1	4,736.6	17.4	15.1	-175.84	179.4	-350.9	315.9	284.7	31.20	10.125		
4,800.0	4,715.8	4,855.7	4,784.7	17.6	15.3	-174.78	189.1	-358.0	318.0	286.5	31.52	10.089		
4,845.0	4,759.5	4,900.4	4,828.1	17.8	15.5	-173.84	197.8	-364.4	320.0	288.2	31.80	10.062		
4,900.0	4,812.9	4,954.9	4,881.0	18.1	15.8	-172.71	208.4	-372.2	322.5	290.3	32.13	10.037		
4,940.0	4,851.7	4,994.6	4,919.5	18.2	16.0	-171.89	216.2	-377.9	324.4	292.0	32.36	10.023		
5,000.0	4,909.9	5,054.1	4,977.3	18.5	16.3	-170.69	227.8	-386.4	327.4	294.7	32.70	10.010		

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 #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #806H	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 #504H - OWB - PWP0														Offset Site Error: 0.0 usft	
Survey Program:		0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7065-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									
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
5,035.0	4,943.8	5,088.9	5,011.0	18.7	16.4	170.00	234.5	-391.4	329.2	296.3	32.90	10.005			
5,100.0	5,006.9	5,153.4	5,073.5	19.0	16.7	168.73	247.1	-400.6	332.6	299.4	33.25	10.005 SF			
5,130.0	5,036.0	5,183.1	5,102.4	19.1	16.9	168.16	252.9	-404.8	334.3	300.9	33.41	10.007			
5,200.0	5,103.9	5,252.6	5,169.8	19.5	17.2	166.84	266.5	-414.8	338.3	304.5	33.76	10.020			
5,225.0	5,128.2	5,277.4	5,193.9	19.6	17.3	166.38	271.3	-418.3	339.8	305.9	33.89	10.027			
5,300.0	5,201.0	5,351.8	5,266.1	19.9	17.7	165.01	285.8	-429.0	344.3	310.1	34.25	10.054			
5,320.0	5,220.4	5,371.6	5,285.3	20.0	17.8	164.65	289.7	-431.8	345.6	311.2	34.34	10.062			
5,400.0	5,298.0	5,451.0	5,362.4	20.4	18.1	163.25	305.2	-443.2	350.7	316.0	34.71	10.103			
5,415.0	5,312.6	5,465.9	5,376.8	20.5	18.2	162.99	308.1	-445.3	351.7	316.9	34.78	10.112			
5,500.0	5,395.0	5,550.2	5,458.6	20.9	18.6	161.54	324.5	-457.4	357.4	322.2	35.15	10.168			
5,510.0	5,404.7	5,560.2	5,468.2	20.9	18.7	161.38	326.5	-458.8	358.1	322.9	35.19	10.175			
5,600.0	5,492.1	5,649.4	5,554.9	21.4	19.1	159.91	343.9	-471.6	364.4	328.8	35.57	10.245			
5,605.0	5,496.9	5,654.4	5,559.7	21.4	19.1	159.83	344.9	-472.3	364.7	329.1	35.59	10.249			
5,700.0	5,589.1	5,748.7	5,651.2	21.8	19.6	158.33	363.2	-485.8	371.7	335.7	35.96	10.334			
5,795.0	5,681.3	5,842.9	5,742.6	22.3	20.0	156.89	381.6	-499.3	378.8	342.5	36.33	10.428			
5,800.0	5,686.1	5,847.9	5,747.4	22.3	20.0	156.82	382.6	-500.0	379.2	342.9	36.35	10.433			
5,890.0	5,773.5	5,937.2	5,834.1	22.8	20.4	155.50	400.0	-512.8	386.2	349.6	36.67	10.532			
5,900.0	5,783.2	5,947.1	5,843.7	22.8	20.5	155.36	401.9	-514.2	387.0	350.3	36.70	10.544			
5,985.0	5,865.6	6,026.7	5,921.0	23.2	20.9	154.31	417.0	-525.2	394.2	357.2	36.99	10.657			
6,000.0	5,880.2	6,040.5	5,934.5	23.3	20.9	154.16	419.4	-527.0	395.7	358.6	37.05	10.679			
6,080.0	5,957.8	6,114.1	6,006.6	23.7	21.3	153.49	431.5	-535.9	404.0	366.6	37.40	10.802			
6,100.0	5,977.2	6,132.5	6,024.6	23.8	21.4	153.37	434.3	-537.9	406.2	368.7	37.49	10.835			
6,175.0	6,050.0	6,200.0	6,091.1	24.1	21.7	153.03	443.7	-544.9	415.4	377.5	37.87	10.970			
6,200.0	6,074.2	6,224.3	6,115.2	24.2	21.8	152.95	446.8	-547.1	418.6	380.6	38.02	11.012			
6,270.0	6,142.2	6,288.4	6,178.6	24.6	22.1	152.88	454.2	-552.5	428.4	389.9	38.43	11.146			
6,300.0	6,171.3	6,315.8	6,205.8	24.7	22.2	152.89	457.0	-554.6	432.8	394.2	38.62	11.206			
6,365.0	6,234.3	6,375.0	6,264.6	25.0	22.5	153.03	462.3	-558.5	442.9	403.9	39.06	11.341			
6,400.0	6,268.3	6,406.8	6,296.3	25.2	22.6	153.15	464.8	-560.3	448.7	409.4	39.30	11.416			
6,460.0	6,326.5	6,461.1	6,350.3	25.5	22.8	153.44	468.3	-562.9	459.1	419.3	39.74	11.553			
6,479.0	6,345.0	6,478.2	6,367.4	25.6	22.9	153.55	469.3	-563.6	462.5	422.6	39.88	11.597			
6,500.0	6,365.3	6,500.0	6,389.2	25.7	23.0	153.73	470.3	-564.4	466.3	426.2	40.08	11.634			
6,555.0	6,418.9	6,546.6	6,435.7	25.9	23.1	154.15	472.2	-565.8	475.9	435.5	40.44	11.768			
6,600.0	6,462.9	6,587.0	6,476.1	26.2	23.3	154.52	473.3	-566.6	483.5	442.8	40.78	11.857			
6,650.0	6,512.0	6,631.8	6,520.9	26.4	23.4	154.95	474.1	-567.1	491.7	450.6	41.11	11.960			
6,700.0	6,561.2	6,677.6	6,566.7	26.6	23.4	155.39	474.2	-567.2	499.5	458.1	41.44	12.055			
6,745.0	6,605.7	6,722.1	6,611.2	26.8	23.4	155.78	474.2	-567.2	506.0	464.3	41.75	12.120			
6,800.0	6,660.1	6,776.5	6,665.6	27.1	23.5	156.19	474.2	-567.2	513.2	471.0	42.13	12.181			
6,840.0	6,699.8	6,816.2	6,705.3	27.3	23.5	156.45	474.2	-567.2	517.7	475.4	42.38	12.217			
6,900.0	6,759.5	6,875.9	6,765.0	27.5	23.5	156.78	474.2	-567.2	523.7	480.9	42.74	12.253			
6,935.0	6,794.3	6,910.7	6,799.8	27.7	23.5	156.94	474.2	-567.2	526.6	483.7	42.93	12.267			
7,000.0	6,859.1	6,975.5	6,864.6	27.9	23.5	157.18	474.2	-567.2	531.0	487.8	43.27	12.273			
7,030.0	6,889.1	7,005.5	6,894.6	28.0	23.5	157.26	474.2	-567.2	532.6	489.2	43.40	12.272			
7,100.0	6,959.0	7,076.7	6,965.8	28.3	23.6	157.41	474.1	-567.2	535.2	491.5	43.71	12.244			
7,125.0	6,984.0	7,104.8	6,993.9	28.3	23.6	157.57	472.8	-567.4	535.6	491.7	43.85	12.214			
7,179.0	7,038.0	7,164.6	7,053.2	28.4	23.6	92.11	465.7	-568.4	535.3	491.0	44.27	12.091			
7,200.0	7,059.0	7,187.4	7,075.6	28.4	23.6	92.58	461.3	-569.0	534.9	490.5	44.45	12.034			
7,220.0	7,079.0	7,208.7	7,096.3	28.4	23.6	93.11	456.5	-569.7	534.5	489.8	44.63	11.975			
7,300.0	7,159.0	7,289.6	7,173.0	28.4	23.7	95.84	431.2	-573.3	532.8	487.4	45.45	11.724			
7,315.0	7,174.0	7,303.9	7,186.1	28.4	23.7	96.45	425.6	-574.1	532.6	487.0	45.60	11.680			
7,352.7	7,211.7	7,338.3	7,217.2	28.4	23.7	98.05	410.9	-576.2	532.4	486.4	45.96	11.582			
7,400.0	7,259.0	7,378.8	7,252.4	28.4	23.8	100.18	391.2	-579.0	532.9	486.5	46.35	11.497			

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 #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #806H	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 #504H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program:		0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7065-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		
7,410.0	7,269.0	7,386.9	7,259.3	28.4	23.8	100.64	387.0	-579.6	533.1	486.7	46.42	11.485		
7,500.0	7,359.0	7,453.8	7,313.7	28.5	23.8	104.80	348.5	-585.0	538.5	491.7	46.73	11.523		
7,505.0	7,364.0	7,457.2	7,316.4	28.5	23.8	105.02	346.4	-585.3	539.0	492.2	46.73	11.533		
7,600.0	7,459.0	7,515.8	7,359.8	28.5	23.9	109.15	307.5	-590.8	552.5	506.2	46.33	11.925		
7,695.0	7,554.0	7,564.4	7,392.6	28.5	23.9	112.81	272.0	-595.8	575.3	530.1	45.21	12.723		
7,700.0	7,559.0	7,566.8	7,394.1	28.5	23.9	112.99	270.2	-596.1	576.7	531.6	45.14	12.777		
7,790.0	7,649.0	7,600.0	7,414.6	28.6	23.9	115.58	244.3	-599.7	607.6	564.3	43.37	14.010		
7,800.0	7,659.0	7,608.8	7,419.8	28.6	23.9	116.28	237.3	-600.7	611.6	568.2	43.34	14.111		
7,885.0	7,744.0	7,638.8	7,436.7	28.6	23.9	118.66	212.7	-604.2	649.1	607.6	41.56	15.620		
7,900.0	7,759.0	7,650.0	7,442.6	28.6	24.0	119.54	203.3	-605.5	656.5	615.1	41.43	15.848		
7,980.0	7,839.0	7,667.4	7,451.5	28.6	24.0	120.93	188.4	-607.6	698.8	659.3	39.50	17.691		
8,000.0	7,859.0	7,672.9	7,454.2	28.6	24.0	121.36	183.7	-608.3	710.2	671.1	39.08	18.174		
8,075.0	7,934.0	7,700.0	7,466.8	28.7	24.0	123.50	160.0	-611.7	755.7	717.9	37.77	20.007		
8,100.0	7,959.0	7,700.0	7,466.8	28.7	24.0	123.50	160.0	-611.7	771.5	734.4	37.14	20.775		
8,170.0	8,029.0	7,700.0	7,466.8	28.7	24.0	123.50	160.0	-611.7	818.5	782.9	35.53	23.038		
8,200.0	8,059.0	7,718.7	7,474.9	28.7	24.0	124.96	143.3	-614.0	839.1	803.8	35.33	23.747		
8,265.0	8,124.0	7,730.8	7,479.8	28.7	24.0	125.90	132.3	-615.6	885.8	851.4	34.36	25.781		
8,300.0	8,159.0	7,750.0	7,487.2	28.7	24.0	127.37	114.8	-618.1	911.9	877.8	34.14	26.709		
8,360.0	8,219.0	7,750.0	7,487.2	28.8	24.0	127.37	114.8	-618.1	957.3	924.1	33.22	28.821		
8,400.0	8,259.0	7,750.0	7,487.2	28.8	24.0	127.37	114.8	-618.1	988.5	955.8	32.68	30.251		
8,455.0	8,314.0	7,750.0	7,487.2	28.8	24.0	127.37	114.8	-618.1	1,032.3	1,000.3	32.03	32.232		
8,500.0	8,359.0	7,766.5	7,493.0	28.8	24.0	128.62	99.5	-620.2	1,068.6	1,036.8	31.83	33.575		
8,550.0	8,409.0	7,772.8	7,495.1	28.8	24.1	129.09	93.6	-621.1	1,109.7	1,078.2	31.47	35.266		
8,600.0	8,459.0	7,778.7	7,497.0	28.8	24.1	129.53	88.1	-621.8	1,151.4	1,120.3	31.16	36.955		
8,645.0	8,504.0	7,800.0	7,503.4	28.8	24.1	131.09	68.0	-624.7	1,189.8	1,158.6	31.13	38.218		
8,700.0	8,559.0	7,800.0	7,503.4	28.9	24.1	131.09	68.0	-624.7	1,236.6	1,205.8	30.81	40.143		
8,740.0	8,599.0	7,800.0	7,503.4	28.9	24.1	131.09	68.0	-624.7	1,271.1	1,240.5	30.61	41.529		

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 #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #806H	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 #521H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program: Reference		0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7437-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 Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.0	0.0	5.3	5.3	3.0	3.0	174.11	-299.5	30.9	301.1					
95.0	95.0	100.3	100.3	3.0	3.0	174.11	-299.5	30.9	301.1	295.1	6.02	50.031		
100.0	100.0	105.3	105.3	3.0	3.0	174.11	-299.5	30.9	301.1	295.1	6.02	50.006		
190.0	190.0	195.3	195.3	3.1	3.0	174.11	-299.5	30.9	301.1	295.0	6.13	49.085		
200.0	200.0	205.3	205.3	3.1	3.0	174.11	-299.5	30.9	301.1	294.9	6.15	48.939		
285.0	285.0	290.3	290.3	3.3	3.0	174.11	-299.5	30.9	301.1	294.8	6.27	48.057		
300.0	300.0	305.3	305.3	3.3	3.0	174.11	-299.5	30.9	301.1	294.8	6.29	47.882		
380.0	380.0	385.3	385.3	3.4	3.0	174.11	-299.5	30.9	301.1	294.7	6.40	47.056		
400.0	400.0	405.3	405.3	3.4	3.0	174.11	-299.5	30.9	301.1	294.7	6.43	46.836		
475.0	475.0	480.3	480.3	3.5	3.0	174.11	-299.5	30.9	301.1	294.6	6.54	46.068		
500.0	500.0	505.3	505.3	3.5	3.1	174.11	-299.5	30.9	301.1	294.5	6.57	45.801		
570.0	570.0	575.3	575.3	3.6	3.1	174.11	-299.5	30.9	301.1	294.4	6.68	45.092		
600.0	600.0	605.3	605.3	3.6	3.1	174.11	-299.5	30.9	301.1	294.4	6.72	44.780		
665.0	665.0	670.3	670.3	3.7	3.1	174.11	-299.5	30.9	301.1	294.3	6.82	44.130		
700.0	700.0	705.3	705.3	3.8	3.1	174.11	-299.5	30.9	301.1	294.2	6.88	43.774		
760.0	760.0	765.3	765.3	3.8	3.1	174.11	-299.5	30.9	301.1	294.1	6.97	43.183		
800.0	800.0	805.3	805.3	3.9	3.2	174.11	-299.5	30.9	301.1	294.1	7.04	42.785		
855.0	855.0	860.3	860.3	4.0	3.2	174.11	-299.5	30.9	301.1	294.0	7.13	42.252		
900.0	900.0	905.3	905.3	4.0	3.2	174.11	-299.5	30.9	301.1	293.9	7.20	41.814		
950.0	950.0	955.3	955.3	4.1	3.2	174.11	-299.5	30.9	301.1	293.8	7.28	41.339		
1,000.0	1,000.0	1,005.3	1,005.3	4.1	3.2	174.11	-299.5	30.9	301.1	293.7	7.37	40.862		
1,045.0	1,045.0	1,050.3	1,050.3	4.2	3.3	174.11	-299.5	30.9	301.1	293.6	7.44	40.444		
1,100.0	1,100.0	1,105.3	1,105.3	4.2	3.3	174.11	-299.5	30.9	301.1	293.5	7.54	39.932		
1,140.0	1,140.0	1,145.3	1,145.3	4.3	3.3	174.11	-299.5	30.9	301.1	293.5	7.61	39.568		
1,200.0	1,200.0	1,205.3	1,205.3	4.4	3.4	174.11	-299.5	30.9	301.1	293.4	7.72	39.023		
1,235.0	1,235.0	1,240.3	1,240.3	4.4	3.4	174.11	-299.5	30.9	301.1	293.3	7.78	38.712		
1,300.0	1,300.0	1,305.3	1,305.3	4.5	3.4	174.11	-299.5	30.9	301.1	293.2	7.90	38.136		
1,330.0	1,330.0	1,335.3	1,335.3	4.5	3.4	174.11	-299.5	30.9	301.1	293.1	7.95	37.876		
1,400.0	1,400.0	1,405.3	1,405.3	4.6	3.5	174.11	-299.5	30.9	301.1	293.0	8.08	37.273		
1,425.0	1,425.0	1,430.3	1,430.3	4.6	3.5	174.11	-299.5	30.9	301.1	293.0	8.12	37.062		
1,500.0	1,500.0	1,505.3	1,505.3	4.7	3.6	174.11	-299.5	30.9	301.1	292.8	8.26	36.433 CC		
1,520.0	1,520.0	1,525.3	1,525.3	4.7	3.6	-119.65	-299.5	30.9	301.1	292.8	8.30	36.275 ES		
1,600.0	1,600.0	1,605.3	1,605.3	4.8	3.6	-119.91	-299.5	30.9	302.0	293.5	8.46	35.702		
1,615.0	1,615.0	1,620.3	1,620.3	4.9	3.6	-120.00	-299.5	30.9	302.2	293.7	8.50	35.577		
1,700.0	1,699.8	1,705.1	1,705.1	5.0	3.7	-120.72	-299.5	30.9	304.6	295.9	8.71	34.959		
1,710.0	1,709.8	1,715.1	1,715.1	5.1	3.7	-120.83	-299.5	30.9	305.0	296.2	8.74	34.898		
1,800.0	1,799.5	1,804.8	1,804.8	5.3	3.8	-122.02	-299.5	30.9	309.2	300.2	8.98	34.435		
1,805.0	1,804.4	1,809.7	1,809.7	5.3	3.8	-122.10	-299.5	30.9	309.4	300.4	8.99	34.414		
1,900.0	1,898.7	1,904.0	1,904.0	5.6	3.9	-123.78	-299.5	30.9	315.8	306.5	9.26	34.112		
1,995.0	1,992.5	1,997.8	1,997.8	5.9	3.9	-125.79	-299.5	30.9	324.3	314.8	9.54	33.983		
2,000.0	1,997.5	2,003.1	2,003.1	5.9	3.9	-125.92	-299.5	30.9	324.8	315.3	9.56	33.964		
2,090.0	2,085.8	2,103.1	2,103.1	6.2	4.2	-128.44	-297.7	30.6	333.6	323.5	10.03	33.260		
2,100.0	2,095.6	2,114.2	2,114.2	6.3	4.2	-128.74	-297.2	30.6	334.5	324.4	10.09	33.155		
2,185.0	2,178.5	2,208.5	2,208.3	6.6	4.5	-131.48	-292.0	29.8	342.1	331.5	10.61	32.235		
2,200.0	2,193.0	2,225.1	2,224.9	6.6	4.6	-132.00	-290.8	29.6	343.4	332.7	10.71	32.072		
2,280.0	2,270.7	2,313.9	2,313.3	6.9	4.9	-134.86	-282.5	28.4	349.4	338.2	11.20	31.193		
2,300.0	2,290.1	2,336.2	2,335.4	6.9	4.9	-135.57	-280.0	28.0	350.7	339.4	11.33	30.954		
2,375.0	2,362.9	2,419.5	2,418.0	7.2	5.2	-138.27	-269.2	26.4	354.5	342.7	11.82	29.991		
2,400.0	2,387.1	2,447.3	2,445.5	7.3	5.3	-139.17	-265.0	25.8	355.4	343.4	11.99	29.651		
2,470.0	2,455.0	2,525.0	2,522.1	7.5	5.6	-141.75	-252.1	23.8	357.3	344.8	12.43	28.733		
2,500.0	2,484.1	2,557.3	2,553.8	7.6	5.6	-142.85	-246.1	22.9	357.7	345.1	12.59	28.400		

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 #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #806H	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 #521H - OWB - PWP0											Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7437-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	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)	
2,565.0	2,547.2	2,620.8	2,616.1	7.8	5.8	-145.00	-234.1	21.1	358.8	345.9	12.97	27.660
2,600.0	2,581.2	2,655.0	2,649.7	8.0	5.9	-146.16	-227.6	20.2	359.7	346.5	13.20	27.250
2,660.0	2,639.4	2,713.6	2,707.2	8.2	6.1	-148.12	-216.6	18.5	361.4	347.8	13.59	26.589
2,700.0	2,678.2	2,752.7	2,745.6	8.3	6.2	-149.42	-209.2	17.4	362.9	349.0	13.86	26.180
2,755.0	2,731.6	2,806.4	2,798.3	8.5	6.4	-151.19	-199.0	15.9	365.1	350.9	14.23	25.656
2,800.0	2,775.2	2,850.4	2,841.5	8.7	6.5	-152.62	-190.7	14.7	367.3	352.7	14.54	25.263
2,850.0	2,823.7	2,899.3	2,889.5	8.9	6.7	-154.19	-181.5	13.3	369.9	355.0	14.88	24.859
2,900.0	2,872.3	2,948.1	2,937.4	9.1	6.9	-155.74	-172.3	11.9	372.8	357.6	15.22	24.491
2,945.0	2,915.9	2,992.1	2,980.6	9.3	7.0	-157.11	-164.0	10.7	375.7	360.2	15.53	24.188
3,000.0	2,969.3	3,045.8	3,033.3	9.5	7.2	-158.76	-153.9	9.2	379.5	363.6	15.91	23.855
3,040.0	3,008.1	3,084.9	3,071.7	9.7	7.4	-159.94	-146.5	8.1	382.5	366.3	16.18	23.635
3,100.0	3,066.3	3,143.5	3,129.2	9.9	7.6	-161.67	-135.4	6.4	387.3	370.7	16.59	23.342
3,135.0	3,100.3	3,177.7	3,162.8	10.1	7.7	-162.67	-129.0	5.5	390.2	373.4	16.83	23.188
3,200.0	3,163.4	3,241.2	3,225.2	10.4	8.0	-164.47	-117.0	3.7	396.0	378.8	17.26	22.939
3,230.0	3,192.5	3,270.5	3,253.9	10.5	8.1	-165.28	-111.4	2.9	398.8	381.4	17.46	22.837
3,300.0	3,260.4	3,338.9	3,321.1	10.8	8.4	-167.14	-98.5	0.9	405.7	387.8	17.92	22.633
3,325.0	3,284.6	3,363.4	3,345.0	10.9	8.5	-167.79	-93.9	0.2	408.3	390.2	18.09	22.570
3,400.0	3,357.4	3,436.6	3,417.0	11.2	8.8	-169.69	-80.1	-1.8	416.2	397.7	18.57	22.413
3,420.0	3,376.8	3,456.2	3,436.2	11.3	8.8	-170.19	-76.4	-2.4	418.4	399.7	18.70	22.377
3,500.0	3,454.4	3,534.4	3,512.9	11.7	9.1	-172.11	-61.6	-4.6	427.6	408.4	19.20	22.266
3,515.0	3,469.0	3,549.0	3,527.3	11.7	9.2	-172.47	-58.9	-5.0	429.3	410.0	19.30	22.249
3,600.0	3,551.5	3,632.1	3,608.8	12.1	9.6	-174.41	-43.2	-7.3	439.6	419.8	19.82	22.183
3,610.0	3,561.2	3,641.8	3,618.4	12.1	9.6	-174.63	-41.4	-7.6	440.9	421.0	19.88	22.177
3,700.0	3,648.5	3,729.8	3,704.7	12.5	10.0	-176.58	-24.8	-10.1	452.4	432.0	20.42	22.154
3,705.0	3,653.4	3,734.7	3,709.5	12.6	10.0	-176.69	-23.8	-10.2	453.0	432.6	20.45	22.153 SF
3,800.0	3,745.5	3,827.5	3,800.6	13.0	10.4	-178.64	-6.3	-12.8	465.8	444.8	21.01	22.171
3,895.0	3,837.7	3,920.3	3,891.7	13.4	10.8	179.51	11.2	-15.4	479.0	457.5	21.55	22.223
3,900.0	3,842.6	3,925.2	3,896.5	13.4	10.8	179.42	12.1	-15.6	479.7	458.1	21.58	22.227
3,990.0	3,929.9	4,013.1	3,982.9	13.8	11.2	177.76	28.7	-18.1	492.7	470.6	22.09	22.305
4,000.0	3,939.6	4,022.9	3,992.5	13.9	11.2	177.58	30.6	-18.3	494.2	472.0	22.15	22.316
4,085.0	4,022.1	4,106.0	4,074.0	14.3	11.6	176.11	46.2	-20.7	506.9	484.3	22.62	22.413
4,100.0	4,036.6	4,120.6	4,088.4	14.3	11.6	175.86	49.0	-21.1	509.1	486.4	22.70	22.432
4,180.0	4,114.2	4,198.8	4,165.1	14.7	12.0	174.54	63.8	-23.3	521.4	498.3	23.13	22.541
4,200.0	4,133.6	4,218.3	4,184.3	14.8	12.0	174.22	67.5	-23.8	524.5	501.3	23.24	22.571
4,275.0	4,206.4	4,291.6	4,256.2	15.1	12.4	173.06	81.3	-25.9	536.3	512.7	23.64	22.687
4,300.0	4,230.7	4,316.0	4,280.2	15.3	12.5	172.68	85.9	-26.6	540.3	516.5	23.77	22.728
4,370.0	4,298.6	4,384.4	4,347.3	15.6	12.8	171.66	98.8	-28.5	551.6	527.4	24.14	22.847
4,400.0	4,327.7	4,413.7	4,376.1	15.7	12.9	171.23	104.3	-29.3	556.5	532.2	24.30	22.900
4,465.0	4,390.8	4,477.2	4,438.5	16.0	13.2	170.33	116.3	-31.1	567.2	542.5	24.64	23.018
4,500.0	4,424.7	4,511.4	4,472.0	16.2	13.3	169.86	122.8	-32.1	573.0	548.1	24.82	23.084
4,560.0	4,483.0	4,570.1	4,529.6	16.5	13.6	169.07	133.8	-33.7	583.0	557.9	25.13	23.199
4,600.0	4,521.8	4,609.2	4,567.9	16.7	13.8	168.56	141.2	-34.8	589.8	564.4	25.34	23.277
4,655.0	4,575.1	4,662.9	4,620.7	16.9	14.0	167.88	151.4	-36.3	599.1	573.5	25.62	23.387
4,700.0	4,618.8	4,706.9	4,663.8	17.1	14.2	167.34	159.7	-37.6	606.8	581.0	25.85	23.478
4,750.0	4,667.3	4,755.7	4,711.8	17.4	14.4	166.75	168.9	-39.0	615.5	589.4	26.10	23.580
4,800.0	4,715.8	4,804.6	4,759.8	17.6	14.6	166.18	178.1	-40.3	624.2	597.8	26.35	23.684
4,845.0	4,759.5	4,848.5	4,802.9	17.8	14.8	165.68	186.4	-41.6	632.1	605.5	26.58	23.777
4,900.0	4,812.9	4,902.3	4,855.7	18.1	15.1	165.09	196.5	-43.1	641.8	614.9	26.86	23.893
4,940.0	4,851.7	4,941.4	4,894.0	18.2	15.2	164.66	203.9	-44.2	648.8	621.8	27.06	23.978
5,000.0	4,909.9	5,000.0	4,951.6	18.5	15.5	164.05	215.0	-45.8	659.5	632.2	27.36	24.105
5,035.0	4,943.8	5,034.2	4,985.2	18.7	15.6	163.70	221.4	-46.8	665.8	638.3	27.54	24.179

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 #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #806H	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 #521H - OWB - PWP0											Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7437-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Reference	Offset	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning
Measured	Vertical	Measured	Vertical	Reference	Offset	Toolface	+N/-S	+E/-W	Between	Between	Separation	Factor
Depth	Depth	Depth	Depth	(usft)	(usft)	(°)	(usft)	(usft)	Centres	Ellipses	(usft)	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	
5,100.0	5,006.9	5,097.7	5,047.5	19.0	15.9	163.06	233.4	-48.6	677.5	649.7	27.86	24.318
5,130.0	5,036.0	5,127.0	5,076.3	19.1	16.1	162.78	239.0	-49.4	683.0	655.0	28.01	24.382
5,200.0	5,103.9	5,195.4	5,143.4	19.5	16.4	162.13	251.9	-51.3	695.7	667.4	28.36	24.531
5,225.0	5,128.2	5,219.8	5,167.4	19.6	16.5	161.91	256.5	-52.0	700.3	671.8	28.49	24.584
5,300.0	5,201.0	5,293.1	5,239.3	19.9	16.8	161.25	270.3	-54.1	714.1	685.2	28.86	24.743
5,320.0	5,220.4	5,312.7	5,258.5	20.0	16.9	161.07	274.0	-54.6	717.8	688.8	28.96	24.786
5,400.0	5,298.0	5,390.8	5,335.2	20.4	17.3	160.40	288.8	-56.8	732.6	703.2	29.36	24.954
5,415.0	5,312.6	5,405.5	5,349.6	20.5	17.3	160.28	291.5	-57.2	735.4	705.9	29.43	24.986
5,500.0	5,395.0	5,488.5	5,431.2	20.9	17.7	159.60	307.2	-59.6	751.2	721.4	29.85	25.164
5,510.0	5,404.7	5,498.3	5,440.7	20.9	17.7	159.52	309.0	-59.9	753.1	723.2	29.90	25.184
5,600.0	5,492.1	5,586.2	5,527.1	21.4	18.1	158.84	325.6	-62.3	770.0	739.7	30.35	25.370
5,605.0	5,496.9	5,591.1	5,531.9	21.4	18.2	158.80	326.6	-62.5	771.0	740.6	30.38	25.381
5,700.0	5,589.1	5,683.9	5,623.0	21.8	18.6	158.11	344.1	-65.1	789.0	758.1	30.85	25.574
5,795.0	5,681.3	5,776.8	5,714.1	22.3	19.0	157.46	361.6	-67.7	807.0	775.7	31.32	25.765
5,800.0	5,686.1	5,781.7	5,718.9	22.3	19.0	157.42	362.5	-67.8	808.0	776.7	31.35	25.775
5,890.0	5,773.5	5,869.6	5,805.2	22.8	19.4	156.83	379.1	-70.3	825.2	793.4	31.79	25.960
5,900.0	5,783.2	5,879.4	5,814.8	22.8	19.5	156.76	381.0	-70.6	827.1	795.3	31.84	25.980
5,985.0	5,865.6	5,960.8	5,894.8	23.2	19.8	156.26	395.9	-72.8	843.6	811.3	32.25	26.158
6,000.0	5,880.2	5,975.1	5,908.9	23.3	19.9	156.19	398.4	-73.2	846.5	814.2	32.33	26.187
6,080.0	5,957.8	6,051.6	5,984.3	23.7	20.2	155.82	411.2	-75.1	862.2	829.5	32.73	26.341
6,100.0	5,977.2	6,070.7	6,003.2	23.8	20.3	155.74	414.3	-75.6	866.2	833.3	32.84	26.379
6,175.0	6,050.0	6,142.5	6,074.1	24.1	20.6	155.49	425.2	-77.2	881.1	847.9	33.23	26.516
6,200.0	6,074.2	6,166.4	6,097.8	24.2	20.7	155.42	428.6	-77.7	886.1	852.8	33.36	26.561
6,270.0	6,142.2	6,233.5	6,164.2	24.6	21.0	155.27	437.7	-79.1	900.3	866.5	33.74	26.682
6,300.0	6,171.3	6,262.2	6,192.7	24.7	21.1	155.22	441.4	-79.6	906.3	872.4	33.90	26.733
6,365.0	6,234.3	6,324.4	6,254.4	25.0	21.4	155.14	448.9	-80.7	919.6	885.4	34.26	26.840
6,400.0	6,268.3	6,357.9	6,287.7	25.2	21.5	155.12	452.6	-81.3	926.8	892.3	34.46	26.896
6,460.0	6,326.5	6,415.4	6,344.8	25.5	21.8	155.11	458.6	-82.2	939.2	904.4	34.79	26.992
6,479.0	6,345.0	6,433.5	6,362.9	25.6	21.8	155.12	460.3	-82.4	943.1	908.2	34.90	27.023
6,500.0	6,365.3	6,453.6	6,382.9	25.7	21.9	155.16	462.2	-82.7	947.4	912.4	35.02	27.057
6,555.0	6,418.9	6,506.4	6,435.4	25.9	22.1	155.28	466.9	-83.4	958.1	922.7	35.33	27.115
6,600.0	6,462.9	6,549.6	6,478.6	26.2	22.3	155.36	470.3	-83.9	966.1	930.5	35.59	27.145
6,650.0	6,512.0	6,597.8	6,526.6	26.4	22.5	155.46	473.8	-84.4	974.4	938.5	35.87	27.166
6,700.0	6,561.2	6,646.1	6,574.8	26.6	22.6	155.55	476.8	-84.9	981.9	945.8	36.14	27.168
6,745.0	6,605.7	6,689.6	6,618.2	26.8	22.8	155.62	479.2	-85.2	988.1	951.7	36.38	27.160
6,800.0	6,660.1	6,742.9	6,671.5	27.1	23.0	155.71	481.8	-85.6	994.8	958.1	36.67	27.129
6,840.0	6,699.8	6,781.7	6,710.2	27.3	23.1	155.78	483.3	-85.8	999.1	962.3	36.87	27.100
6,900.0	6,759.5	6,840.0	6,768.5	27.5	23.3	155.87	485.1	-86.1	1,004.8	967.6	37.17	27.035
6,935.0	6,794.3	6,874.0	6,802.5	27.7	23.4	155.92	485.8	-86.2	1,007.6	970.3	37.33	26.992
7,000.0	6,859.1	6,937.2	6,865.8	27.9	23.5	156.01	486.8	-86.4	1,011.8	974.2	37.62	26.894
7,030.0	6,889.1	6,966.5	6,895.0	28.0	23.5	156.05	487.0	-86.4	1,013.4	975.6	37.74	26.849
7,100.0	6,959.0	7,035.8	6,964.3	28.3	23.6	156.13	487.0	-86.4	1,015.9	977.9	38.02	26.718
7,125.0	6,984.0	7,060.8	6,989.3	28.3	23.6	156.15	487.0	-86.4	1,016.4	978.4	38.08	26.690
7,179.0	7,038.0	7,114.8	7,043.3	28.4	23.6	89.91	487.0	-86.4	1,016.9	978.7	38.21	26.614
7,200.0	7,059.0	7,135.8	7,064.3	28.4	23.6	89.91	487.0	-86.4	1,016.9	978.7	38.23	26.600
7,220.0	7,079.0	7,155.8	7,084.3	28.4	23.6	89.91	487.0	-86.4	1,016.9	978.6	38.25	26.584
7,300.0	7,159.0	7,235.8	7,164.3	28.4	23.7	89.91	487.0	-86.4	1,016.9	978.6	38.35	26.520
7,315.0	7,174.0	7,250.8	7,179.3	28.4	23.7	89.91	487.0	-86.4	1,016.9	978.5	38.36	26.507
7,400.0	7,259.0	7,335.8	7,264.3	28.4	23.7	89.91	487.0	-86.4	1,016.9	978.4	38.46	26.439
7,410.0	7,269.0	7,345.8	7,274.3	28.4	23.7	89.91	487.0	-86.4	1,016.9	978.4	38.47	26.431
7,500.0	7,359.0	7,435.8	7,364.3	28.5	23.8	89.91	487.0	-86.4	1,016.9	978.3	38.56	26.372

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 #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #806H	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 #521H - OWB - PWP0											Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7437-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Distance	Rule Assigned:	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
7,505.0	7,364.0	7,440.9	7,369.4	28.5	23.8	89.91	487.0	-86.4	1,016.9	978.3	38.56	26.370
7,600.0	7,459.0	7,536.6	7,464.6	28.5	23.8	90.39	478.5	-86.5	1,016.8	978.1	38.71	26.271
7,610.5	7,469.5	7,547.0	7,474.8	28.5	23.9	90.50	476.6	-86.5	1,016.8	978.1	38.73	26.254
7,695.0	7,554.0	7,627.1	7,552.2	28.5	23.9	91.66	455.9	-86.7	1,017.1	978.1	38.96	26.107
7,700.0	7,559.0	7,631.7	7,556.5	28.5	23.9	91.75	454.4	-86.7	1,017.1	978.1	38.97	26.098
7,790.0	7,649.0	7,708.9	7,627.3	28.6	24.0	93.46	423.9	-86.9	1,018.6	979.3	39.24	25.956
7,800.0	7,659.0	7,716.9	7,634.4	28.6	24.0	93.67	420.2	-87.0	1,018.8	979.6	39.27	25.945
7,885.0	7,744.0	7,780.2	7,688.7	28.6	24.1	95.50	387.5	-87.3	1,022.5	983.1	39.48	25.901
7,900.0	7,759.0	7,790.5	7,697.1	28.6	24.1	95.83	381.7	-87.3	1,023.5	984.0	39.51	25.906
7,980.0	7,839.0	7,841.2	7,737.2	28.6	24.2	97.56	350.6	-87.6	1,030.2	990.6	39.60	26.013
8,000.0	7,859.0	7,850.0	7,743.8	28.6	24.2	97.88	344.8	-87.6	1,032.4	992.8	39.57	26.091
8,075.0	7,934.0	7,900.0	7,779.9	28.7	24.2	99.79	310.3	-87.9	1,042.6	1,002.9	39.69	26.270
8,100.0	7,959.0	7,900.0	7,779.9	28.7	24.2	99.79	310.3	-87.9	1,046.7	1,007.3	39.46	26.526
8,170.0	8,029.0	7,936.6	7,804.4	28.7	24.3	101.27	283.0	-88.2	1,060.3	1,021.0	39.38	26.922
8,200.0	8,059.0	7,950.0	7,812.9	28.7	24.3	101.83	272.7	-88.3	1,067.1	1,027.8	39.31	27.148
8,265.0	8,124.0	7,973.6	7,827.3	28.7	24.3	102.85	254.0	-88.4	1,083.9	1,044.8	39.04	27.764
8,300.0	8,159.0	7,985.8	7,834.4	28.7	24.3	103.38	244.1	-88.5	1,094.0	1,055.1	38.88	28.141
8,360.0	8,219.0	8,000.0	7,842.4	28.8	24.3	104.00	232.4	-88.6	1,113.3	1,074.8	38.48	28.934
8,400.0	8,259.0	8,017.0	7,851.6	28.8	24.3	104.76	218.2	-88.7	1,127.4	1,089.1	38.33	29.411
8,455.0	8,314.0	8,032.1	7,859.5	28.8	24.4	105.44	205.2	-88.8	1,148.5	1,110.5	38.00	30.227
8,500.0	8,359.0	8,050.0	7,868.4	28.8	24.4	106.25	189.7	-89.0	1,167.2	1,129.4	37.81	30.869
8,550.0	8,409.0	8,050.0	7,868.4	28.8	24.4	106.25	189.7	-89.0	1,189.3	1,152.0	37.29	31.891
8,600.0	8,459.0	8,066.3	7,876.0	28.8	24.4	107.00	175.3	-89.1	1,212.8	1,175.8	37.04	32.743
8,645.0	8,504.0	8,075.5	7,880.1	28.8	24.4	107.43	167.0	-89.2	1,235.2	1,198.4	36.74	33.621
8,700.0	8,559.0	8,100.0	7,890.5	28.9	24.4	108.57	144.8	-89.4	1,264.2	1,227.6	36.58	34.563
8,740.0	8,599.0	8,100.0	7,890.5	28.9	24.4	108.57	144.8	-89.4	1,285.9	1,249.7	36.21	35.514

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 #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #806H	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
0.0	0.0	1.8	1.8	3.0	3.0	140.85	-147.9	120.4	190.7				
95.0	95.0	96.8	96.8	3.0	3.0	140.85	-147.9	120.4	190.7	184.7	6.04	31.591	
100.0	100.0	101.8	101.8	3.0	3.0	140.85	-147.9	120.4	190.7	184.7	6.04	31.562	
190.0	190.0	191.8	191.8	3.1	3.1	140.85	-147.9	120.4	190.7	184.5	6.26	30.470	
200.0	200.0	201.8	201.8	3.1	3.1	140.85	-147.9	120.4	190.7	184.4	6.29	30.308	
285.0	285.0	286.8	286.8	3.3	3.3	140.85	-147.9	120.4	190.7	184.2	6.50	29.356	
300.0	300.0	301.8	301.8	3.3	3.3	140.85	-147.9	120.4	190.7	184.2	6.54	29.174	
380.0	380.0	381.8	381.8	3.4	3.4	140.85	-147.9	120.4	190.7	184.0	6.73	28.353	
400.0	400.0	401.8	401.8	3.4	3.4	140.85	-147.9	120.4	190.7	183.9	6.78	28.140	
475.0	475.0	476.8	476.8	3.5	3.5	140.85	-147.9	120.4	190.7	183.8	6.95	27.432	
500.0	500.0	501.8	501.8	3.5	3.5	140.85	-147.9	120.4	190.7	183.7	7.01	27.193	
570.0	570.0	571.8	571.8	3.6	3.6	140.85	-147.9	120.4	190.7	183.5	7.17	26.582	
600.0	600.0	601.8	601.8	3.6	3.6	140.85	-147.9	120.4	190.7	183.5	7.25	26.320	
665.0	665.0	666.8	666.8	3.7	3.7	140.85	-147.9	120.4	190.7	183.3	7.39	25.794	
700.0	700.0	701.8	701.8	3.8	3.8	140.85	-147.9	120.4	190.7	183.2	7.48	25.512	
760.0	760.0	761.8	761.8	3.8	3.8	140.85	-147.9	120.4	190.7	183.1	7.61	25.061	
800.0	800.0	801.8	801.8	3.9	3.9	140.85	-147.9	120.4	190.7	183.0	7.70	24.762	
855.0	855.0	856.8	856.8	4.0	4.0	140.85	-147.9	120.4	190.7	182.9	7.82	24.376	
900.0	900.0	901.8	901.8	4.0	4.0	140.85	-147.9	120.4	190.7	182.8	7.93	24.063	
950.0	950.0	951.8	951.8	4.1	4.1	140.85	-147.9	120.4	190.7	182.7	8.04	23.734	
1,000.0	1,000.0	1,001.8	1,001.8	4.1	4.1	140.85	-147.9	120.4	190.7	182.6	8.15	23.409	
1,045.0	1,045.0	1,046.8	1,046.8	4.2	4.2	140.85	-147.9	120.4	190.7	182.5	8.24	23.131	
1,100.0	1,100.0	1,101.8	1,101.8	4.2	4.2	140.85	-147.9	120.4	190.7	182.3	8.37	22.796	
1,140.0	1,140.0	1,141.8	1,141.8	4.3	4.3	140.85	-147.9	120.4	190.7	182.3	8.45	22.564	
1,200.0	1,200.0	1,201.8	1,201.8	4.4	4.4	140.85	-147.9	120.4	190.7	182.1	8.58	22.220	
1,235.0	1,235.0	1,236.8	1,236.8	4.4	4.4	140.85	-147.9	120.4	190.7	182.1	8.66	22.028	
1,300.0	1,300.0	1,301.8	1,301.8	4.5	4.5	140.85	-147.9	120.4	190.7	181.9	8.80	21.676	
1,330.0	1,330.0	1,331.8	1,331.8	4.5	4.5	140.85	-147.9	120.4	190.7	181.8	8.86	21.521	
1,400.0	1,400.0	1,401.8	1,401.8	4.6	4.6	140.85	-147.9	120.4	190.7	181.7	9.01	21.163	
1,425.0	1,425.0	1,426.8	1,426.8	4.6	4.6	140.85	-147.9	120.4	190.7	181.6	9.06	21.041	
1,436.9	1,436.9	1,438.7	1,438.7	4.6	4.6	140.85	-147.9	120.4	190.7	181.6	9.09	20.983 CC	
1,500.0	1,500.0	1,501.8	1,501.8	4.7	4.7	140.85	-147.9	120.4	190.7	181.5	9.22	20.677 ES	
1,520.0	1,520.0	1,521.5	1,521.5	4.7	4.7	-152.93	-147.9	120.5	190.8	181.5	9.28	20.565	
1,600.0	1,600.0	1,600.0	1,600.0	4.8	4.8	-153.62	-147.1	121.9	192.6	183.1	9.49	20.305	
1,615.0	1,615.0	1,615.2	1,615.2	4.9	4.9	-153.86	-146.8	122.4	193.2	183.7	9.55	20.243	
1,700.0	1,699.8	1,698.6	1,698.4	5.0	5.1	-155.69	-144.6	126.4	198.5	188.6	9.88	20.086 SF	
1,710.0	1,709.8	1,708.3	1,708.2	5.1	5.1	-155.96	-144.3	127.1	199.3	189.4	9.92	20.088	
1,800.0	1,799.5	1,795.6	1,795.0	5.3	5.3	-158.81	-140.6	133.8	208.8	198.5	10.29	20.282	
1,805.0	1,804.4	1,800.0	1,799.5	5.3	5.3	-158.97	-140.4	134.2	209.4	199.1	10.31	20.304	
1,900.0	1,898.7	1,890.9	1,889.7	5.6	5.6	-162.62	-135.2	143.8	224.1	213.4	10.74	20.870	
1,995.0	1,992.5	1,979.5	1,977.2	5.9	5.9	-166.52	-128.8	155.6	243.9	232.7	11.20	21.776	
2,000.0	1,997.5	1,984.1	1,981.8	5.9	5.9	-166.73	-128.4	156.3	245.1	233.8	11.22	21.834	
2,090.0	2,085.8	2,065.7	2,062.0	6.2	6.1	-170.40	-121.3	169.3	269.1	257.4	11.70	23.001	
2,100.0	2,095.6	2,074.6	2,070.8	6.3	6.2	-170.80	-120.5	170.9	272.0	260.3	11.75	23.149	
2,185.0	2,178.5	2,149.3	2,143.8	6.6	6.4	-174.08	-112.9	184.8	299.8	287.5	12.23	24.520	
2,200.0	2,193.0	2,162.2	2,156.4	6.6	6.5	-174.63	-111.5	187.4	305.1	292.8	12.31	24.786	
2,280.0	2,270.7	2,232.5	2,224.6	6.9	6.7	-177.52	-103.5	202.1	334.8	322.1	12.73	26.310	
2,300.0	2,290.1	2,250.6	2,242.1	6.9	6.8	-178.20	-101.4	205.9	342.4	329.6	12.83	26.680	
2,375.0	2,362.9	2,318.5	2,308.1	7.2	7.0	179.49	-93.6	220.4	371.2	357.9	13.25	28.015	
2,400.0	2,387.1	2,341.2	2,330.0	7.3	7.1	178.79	-91.0	225.2	380.9	367.5	13.39	28.444	
2,470.0	2,455.0	2,404.6	2,391.5	7.5	7.3	177.02	-83.7	238.7	408.3	394.5	13.80	29.589	

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 #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #806H	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	Reference	Offset	Highside	Offset Wellbore Centre	Distance	Rule Assigned:	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)		
2,500.0	2,484.1	2,431.7	2,417.9	7.6	7.4	176.33	-80.5	244.4	420.1	406.2	13.98	30.059
2,565.0	2,547.2	2,490.6	2,475.0	7.8	7.6	174.95	-73.7	257.0	446.0	431.6	14.37	31.029
2,600.0	2,581.2	2,522.3	2,505.8	8.0	7.7	174.27	-70.1	263.7	459.9	445.3	14.59	31.528
2,660.0	2,639.4	2,576.6	2,558.5	8.2	7.9	173.20	-63.8	275.3	484.0	469.1	14.97	32.340
2,700.0	2,678.2	2,612.9	2,593.6	8.3	8.0	172.54	-59.6	283.0	500.2	484.9	15.22	32.859
2,755.0	2,731.6	2,662.7	2,642.0	8.5	8.2	171.70	-53.9	293.5	522.4	506.9	15.58	33.533
2,800.0	2,775.2	2,703.4	2,681.5	8.7	8.4	171.06	-49.1	302.2	540.7	524.9	15.87	34.063
2,850.0	2,823.7	2,748.7	2,725.4	8.9	8.5	170.40	-43.9	311.8	561.1	544.9	16.21	34.617
2,900.0	2,872.3	2,794.0	2,769.4	9.1	8.7	169.79	-38.7	321.5	581.6	565.0	16.54	35.150
2,945.0	2,915.9	2,834.7	2,808.9	9.3	8.9	169.27	-34.0	330.1	600.0	583.1	16.85	35.602
3,000.0	2,969.3	2,884.5	2,857.3	9.5	9.1	168.68	-28.2	340.7	622.6	605.4	17.23	36.132
3,040.0	3,008.1	2,920.8	2,892.4	9.7	9.2	168.28	-24.0	348.4	639.1	621.5	17.51	36.497
3,100.0	3,066.3	2,975.1	2,945.1	9.9	9.4	167.71	-17.8	360.0	663.8	645.9	17.93	37.021
3,135.0	3,100.3	3,006.8	2,975.9	10.1	9.6	167.40	-14.1	366.7	678.3	660.1	18.18	37.312
3,200.0	3,163.4	3,065.7	3,033.0	10.4	9.8	166.85	-7.3	379.2	705.1	686.5	18.64	37.827
3,230.0	3,192.5	3,092.8	3,059.4	10.5	9.9	166.61	-4.2	385.0	717.6	698.7	18.86	38.054
3,300.0	3,260.4	3,156.2	3,120.9	10.8	10.2	166.08	3.1	398.5	746.6	727.3	19.36	38.559
3,325.0	3,284.6	3,178.9	3,142.8	10.9	10.3	165.91	5.8	403.3	757.0	737.5	19.55	38.731
3,400.0	3,357.4	3,246.8	3,208.7	11.2	10.6	165.40	13.6	417.7	788.2	768.1	20.09	39.224
3,420.0	3,376.8	3,264.9	3,226.3	11.3	10.6	165.27	15.7	421.6	796.5	776.3	20.24	39.350
3,500.0	3,454.4	3,337.4	3,296.6	11.7	11.0	164.78	24.1	437.0	829.8	809.0	20.83	39.831
3,515.0	3,469.0	3,350.9	3,309.8	11.7	11.0	164.69	25.6	439.9	836.1	815.1	20.95	39.917
3,600.0	3,551.5	3,427.9	3,384.5	12.1	11.3	164.22	34.5	456.3	871.6	850.0	21.58	40.385
3,610.0	3,561.2	3,437.0	3,393.3	12.1	11.4	164.17	35.6	458.2	875.7	854.1	21.66	40.438
3,700.0	3,648.5	3,518.5	3,472.4	12.5	11.7	163.71	45.0	475.5	913.4	891.0	22.34	40.893
3,705.0	3,653.4	3,523.0	3,476.8	12.6	11.8	163.69	45.5	476.5	915.4	893.1	22.37	40.917
3,800.0	3,745.5	3,609.0	3,560.2	13.0	12.1	163.25	55.4	494.8	955.2	932.1	23.10	41.358
3,895.0	3,837.7	3,695.1	3,643.7	13.4	12.5	162.85	65.4	513.1	995.0	971.2	23.82	41.765
3,900.0	3,842.6	3,699.6	3,648.1	13.4	12.5	162.83	65.9	514.0	997.1	973.2	23.86	41.786
3,990.0	3,929.9	3,781.1	3,727.2	13.8	12.9	162.47	75.3	531.4	1,034.8	1,010.3	24.56	42.142
4,000.0	3,939.6	3,790.2	3,736.0	13.9	12.9	162.43	76.4	533.3	1,039.0	1,014.4	24.63	42.180
4,085.0	4,022.1	3,867.2	3,810.7	14.3	13.3	162.13	85.2	549.7	1,074.7	1,049.4	25.29	42.491
4,100.0	4,036.6	3,880.7	3,823.9	14.3	13.4	162.07	86.8	552.5	1,081.0	1,055.6	25.41	42.544
4,180.0	4,114.2	3,953.2	3,894.2	14.7	13.7	161.80	95.2	567.9	1,114.6	1,088.6	26.03	42.815
4,200.0	4,133.6	3,971.3	3,911.7	14.8	13.8	161.74	97.3	571.8	1,123.0	1,096.8	26.19	42.881
4,275.0	4,206.4	4,039.2	3,977.6	15.1	14.1	161.51	105.1	586.2	1,154.5	1,127.7	26.78	43.117
4,300.0	4,230.7	4,061.9	3,999.6	15.3	14.2	161.43	107.7	591.1	1,165.0	1,138.1	26.97	43.193
4,370.0	4,298.6	4,125.3	4,061.1	15.6	14.5	161.23	115.1	604.5	1,194.5	1,166.9	27.52	43.398
4,400.0	4,327.7	4,152.4	4,087.5	15.7	14.6	161.14	118.2	610.3	1,207.1	1,179.3	27.76	43.483
4,465.0	4,390.8	4,211.3	4,144.6	16.0	14.9	160.96	125.0	622.8	1,234.4	1,206.2	28.27	43.660
4,500.0	4,424.7	4,243.0	4,175.3	16.2	15.0	160.87	128.7	629.6	1,249.2	1,220.6	28.55	43.752
4,560.0	4,483.0	4,297.3	4,228.1	16.5	15.3	160.72	134.9	641.1	1,274.4	1,245.4	29.03	43.905
4,600.0	4,521.8	4,333.6	4,263.2	16.7	15.4	160.62	139.1	648.8	1,291.3	1,261.9	29.34	44.004
4,655.0	4,575.1	4,383.4	4,311.5	16.9	15.7	160.49	144.9	659.4	1,314.4	1,284.6	29.78	44.135

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 #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #806H	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							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	
0.0	0.0	2.5	2.5	3.0	3.0	148.65	-148.4	90.4	173.8					
95.0	95.0	97.5	97.5	3.0	3.0	148.65	-148.4	90.4	173.8	167.7	6.04	28.782		
100.0	100.0	102.5	102.5	3.0	3.0	148.65	-148.4	90.4	173.8	167.7	6.04	28.755		
190.0	190.0	192.5	192.5	3.1	3.1	148.65	-148.4	90.4	173.8	167.5	6.26	27.754		
200.0	200.0	202.5	202.5	3.1	3.1	148.65	-148.4	90.4	173.8	167.5	6.29	27.608		
285.0	285.0	287.5	287.5	3.3	3.3	148.65	-148.4	90.4	173.8	167.3	6.50	26.734		
300.0	300.0	302.5	302.5	3.3	3.3	148.65	-148.4	90.4	173.8	167.2	6.54	26.568		
380.0	380.0	382.5	382.5	3.4	3.4	148.65	-148.4	90.4	173.8	167.0	6.73	25.812		
400.0	400.0	402.5	402.5	3.4	3.4	148.65	-148.4	90.4	173.8	167.0	6.78	25.617		
475.0	475.0	477.5	477.5	3.5	3.5	148.65	-148.4	90.4	173.8	166.8	6.96	24.964		
500.0	500.0	502.5	502.5	3.5	3.5	148.65	-148.4	90.4	173.8	166.7	7.02	24.743		
570.0	570.0	572.5	572.5	3.6	3.6	148.65	-148.4	90.4	173.8	166.6	7.19	24.179		
600.0	600.0	602.5	602.5	3.6	3.6	148.65	-148.4	90.4	173.8	166.5	7.26	23.937		
665.0	665.0	667.5	667.5	3.7	3.7	148.65	-148.4	90.4	173.8	166.4	7.41	23.451		
700.0	700.0	702.5	702.5	3.8	3.8	148.65	-148.4	90.4	173.8	166.3	7.49	23.189		
760.0	760.0	762.5	762.5	3.8	3.8	148.65	-148.4	90.4	173.8	166.1	7.63	22.771		
800.0	800.0	802.5	802.5	3.9	3.9	148.65	-148.4	90.4	173.8	166.0	7.72	22.494		
855.0	855.0	857.5	857.5	4.0	4.0	148.65	-148.4	90.4	173.8	165.9	7.85	22.136		
900.0	900.0	902.5	902.5	4.0	4.0	148.65	-148.4	90.4	173.8	165.8	7.95	21.845		
950.0	950.0	952.5	952.5	4.1	4.1	148.65	-148.4	90.4	173.8	165.7	8.07	21.540		
1,000.0	1,000.0	1,002.5	1,002.5	4.1	4.1	148.65	-148.4	90.4	173.8	165.6	8.18	21.238		
1,045.0	1,045.0	1,047.5	1,047.5	4.2	4.2	148.65	-148.4	90.4	173.8	165.5	8.28	20.979		
1,100.0	1,100.0	1,102.5	1,102.5	4.2	4.2	148.65	-148.4	90.4	173.8	165.4	8.41	20.668		
1,140.0	1,140.0	1,142.5	1,142.5	4.3	4.3	148.65	-148.4	90.4	173.8	165.3	8.50	20.451		
1,200.0	1,200.0	1,202.5	1,202.5	4.4	4.4	148.65	-148.4	90.4	173.8	165.1	8.63	20.131		
1,235.0	1,235.0	1,237.5	1,237.5	4.4	4.4	148.65	-148.4	90.4	173.8	165.1	8.71	19.953		
1,300.0	1,300.0	1,302.5	1,302.5	4.5	4.5	148.65	-148.4	90.4	173.8	164.9	8.85	19.625		
1,330.0	1,330.0	1,332.5	1,332.5	4.5	4.5	148.65	-148.4	90.4	173.8	164.8	8.92	19.481		
1,400.0	1,400.0	1,402.5	1,402.5	4.6	4.6	148.65	-148.4	90.4	173.8	164.7	9.08	19.147		
1,425.0	1,425.0	1,427.5	1,427.5	4.6	4.6	148.65	-148.4	90.4	173.8	164.6	9.13	19.033		
1,500.0	1,500.0	1,502.6	1,502.6	4.7	4.7	148.65	-148.4	90.4	173.8	164.5	9.30	18.692		
1,502.7	1,502.7	1,505.3	1,505.3	4.7	4.7	-145.10	-148.4	90.4	173.8	164.5	9.30	18.677	CC	
1,520.0	1,520.0	1,523.1	1,523.1	4.7	4.8	-145.14	-148.3	90.5	173.8	164.4	9.35	18.583	ES	
1,600.0	1,600.0	1,605.0	1,605.0	4.8	4.9	-146.00	-146.8	91.5	174.4	164.9	9.57	18.232		
1,615.0	1,615.0	1,620.4	1,620.4	4.9	4.9	-146.28	-146.3	91.8	174.7	165.1	9.63	18.146		
1,700.0	1,699.8	1,707.1	1,706.9	5.0	5.2	-148.59	-142.2	94.6	176.8	166.8	9.95	17.761		
1,710.0	1,709.8	1,717.2	1,717.0	5.1	5.2	-148.94	-141.6	95.0	177.1	167.2	9.99	17.727		
1,800.0	1,799.5	1,808.2	1,807.6	5.3	5.4	-152.68	-134.7	99.7	181.5	171.2	10.34	17.549		
1,805.0	1,804.4	1,813.2	1,812.6	5.3	5.5	-152.91	-134.3	100.0	181.8	171.4	10.36	17.546	SF	
1,900.0	1,898.7	1,908.0	1,906.6	5.6	5.7	-157.91	-124.4	106.7	189.5	178.8	10.74	17.653		
1,995.0	1,992.5	2,000.8	1,998.3	5.9	5.9	-163.38	-112.7	114.8	201.3	190.3	11.07	18.191		
2,000.0	1,997.5	2,005.6	2,003.1	5.9	5.9	-163.66	-112.1	115.2	202.1	191.0	11.09	18.222		
2,090.0	2,085.8	2,092.4	2,088.8	6.2	6.1	-168.42	-100.9	122.8	217.8	206.3	11.51	18.931		
2,100.0	2,095.6	2,102.0	2,098.3	6.3	6.1	-168.92	-99.6	123.7	219.8	208.3	11.55	19.026		
2,185.0	2,178.5	2,183.3	2,178.6	6.6	6.4	-172.84	-89.1	130.8	238.9	226.9	11.98	19.949		
2,200.0	2,193.0	2,197.6	2,192.7	6.6	6.4	-173.48	-87.3	132.1	242.6	230.6	12.05	20.132		
2,280.0	2,270.7	2,273.7	2,267.9	6.9	6.6	-176.62	-77.4	138.8	263.2	250.7	12.41	21.197		
2,300.0	2,290.1	2,292.8	2,286.7	6.9	6.7	-177.34	-75.0	140.5	268.4	255.9	12.51	21.461		
2,375.0	2,362.9	2,364.1	2,357.2	7.2	6.9	-179.78	-65.7	146.8	288.4	275.5	12.86	22.415		
2,400.0	2,387.1	2,387.9	2,380.7	7.3	7.0	179.48	-62.7	148.9	295.1	282.1	12.99	22.728		
2,470.0	2,455.0	2,454.5	2,446.4	7.5	7.2	177.56	-54.0	154.8	314.3	300.9	13.34	23.565		

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 #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #806H	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							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		
2,500.0	2,484.1	2,483.0	2,474.6	7.6	7.3	176.81	-50.4	157.3	322.6	309.1	13.49	23.915		
2,565.0	2,547.2	2,544.9	2,535.7	7.8	7.5	175.31	-42.4	162.7	340.7	326.9	13.83	24.640		
2,600.0	2,581.2	2,578.2	2,568.6	8.0	7.6	174.56	-38.1	165.7	350.6	336.6	14.01	25.019		
2,660.0	2,639.4	2,635.3	2,625.0	8.2	7.8	173.38	-30.7	170.7	367.6	353.3	14.34	25.639		
2,700.0	2,678.2	2,673.3	2,662.6	8.3	8.0	172.64	-25.8	174.0	379.0	364.5	14.56	26.039		
2,755.0	2,731.6	2,725.6	2,714.2	8.5	8.1	171.70	-19.0	178.7	394.8	380.0	14.86	26.564		
2,800.0	2,775.2	2,768.5	2,756.5	8.7	8.3	170.99	-13.5	182.4	407.8	392.7	15.12	26.979		
2,850.0	2,823.7	2,816.0	2,803.5	8.9	8.5	170.25	-7.3	186.6	422.3	406.9	15.40	27.419		
2,900.0	2,872.3	2,863.6	2,850.5	9.1	8.6	169.55	-1.2	190.8	436.9	421.2	15.69	27.844		
2,945.0	2,915.9	2,906.4	2,892.8	9.3	8.8	168.97	4.4	194.6	450.0	434.1	15.95	28.209		
3,000.0	2,969.3	2,958.7	2,944.5	9.5	9.0	168.29	11.1	199.2	466.2	449.9	16.28	28.640		
3,040.0	3,008.1	2,996.8	2,982.1	9.7	9.1	167.83	16.1	202.6	477.9	461.4	16.51	28.939		
3,100.0	3,066.3	3,053.9	3,038.4	9.9	9.4	167.18	23.4	207.6	495.6	478.7	16.87	29.371		
3,135.0	3,100.3	3,087.2	3,071.3	10.1	9.5	166.82	27.7	210.5	506.0	488.9	17.09	29.612		
3,200.0	3,163.4	3,149.0	3,132.4	10.4	9.7	166.20	35.7	216.0	525.2	507.8	17.48	30.043		
3,230.0	3,192.5	3,177.6	3,160.6	10.5	9.8	165.92	39.4	218.5	534.1	516.5	17.67	30.234		
3,300.0	3,260.4	3,244.2	3,226.4	10.8	10.1	165.31	48.0	224.4	555.0	536.9	18.10	30.663		
3,325.0	3,284.6	3,268.0	3,249.9	10.9	10.2	165.11	51.1	226.5	562.4	544.2	18.26	30.809		
3,400.0	3,357.4	3,339.3	3,320.4	11.2	10.5	164.52	60.3	232.8	584.8	566.1	18.72	31.233		
3,420.0	3,376.8	3,358.3	3,339.1	11.3	10.5	164.37	62.8	234.4	590.8	572.0	18.85	31.342		
3,500.0	3,454.4	3,434.5	3,414.3	11.7	10.8	163.80	72.6	241.1	614.8	595.4	19.36	31.760		
3,515.0	3,469.0	3,448.7	3,428.4	11.7	10.9	163.70	74.5	242.4	619.3	599.8	19.45	31.835		
3,600.0	3,551.5	3,529.6	3,508.3	12.1	11.2	163.15	84.9	249.5	644.8	624.8	20.00	32.247		
3,610.0	3,561.2	3,539.1	3,517.7	12.1	11.3	163.09	86.2	250.4	647.8	627.7	20.06	32.293		
3,700.0	3,648.5	3,624.7	3,602.3	12.5	11.6	162.56	97.2	257.9	674.9	654.2	20.64	32.697		
3,705.0	3,653.4	3,629.5	3,607.0	12.6	11.6	162.53	97.8	258.3	676.4	655.7	20.67	32.719		
3,800.0	3,745.5	3,719.9	3,696.2	13.0	12.0	162.02	109.5	266.3	705.0	683.7	21.29	33.115		
3,895.0	3,837.7	3,810.3	3,785.5	13.4	12.4	161.55	121.2	274.3	733.7	711.8	21.91	33.484		
3,900.0	3,842.6	3,815.0	3,790.2	13.4	12.4	161.52	121.8	274.7	735.2	713.3	21.95	33.503		
3,990.0	3,929.9	3,900.6	3,874.8	13.8	12.7	161.11	132.9	282.2	762.5	739.9	22.54	33.829		
4,000.0	3,939.6	3,910.2	3,884.2	13.9	12.8	161.06	134.1	283.1	765.5	742.9	22.61	33.864		
4,085.0	4,022.1	3,991.0	3,964.0	14.3	13.1	160.70	144.6	290.2	791.2	768.1	23.17	34.151		
4,100.0	4,036.6	4,005.3	3,978.1	14.3	13.2	160.64	146.4	291.5	795.8	772.5	23.27	34.200		
4,180.0	4,114.2	4,081.4	4,053.3	14.7	13.5	160.32	156.3	298.2	820.1	796.3	23.80	34.452		
4,200.0	4,133.6	4,100.4	4,072.1	14.8	13.6	160.25	158.7	299.9	826.1	802.2	23.94	34.513		
4,275.0	4,206.4	4,171.8	4,142.6	15.1	13.9	159.97	167.9	306.2	848.9	824.5	24.44	34.735		
4,300.0	4,230.7	4,195.6	4,166.1	15.3	14.0	159.88	171.0	308.2	856.5	831.9	24.61	34.806		
4,370.0	4,298.6	4,266.5	4,236.2	15.6	14.2	159.64	180.0	314.3	877.6	852.5	25.09	34.977		
4,400.0	4,327.7	4,297.6	4,266.9	15.7	14.4	159.56	183.6	316.9	886.6	861.3	25.30	35.036		
4,465.0	4,390.8	4,365.0	4,333.7	16.0	14.6	159.41	191.2	322.0	905.7	879.9	25.77	35.146		
4,500.0	4,424.7	4,401.4	4,369.8	16.2	14.8	159.35	195.0	324.6	915.8	889.8	26.02	35.198		
4,560.0	4,483.0	4,464.1	4,432.0	16.5	15.0	159.29	201.1	328.8	932.9	906.5	26.44	35.281		
4,600.0	4,521.8	4,505.9	4,473.7	16.7	15.2	159.27	204.9	331.4	944.2	917.4	26.72	35.329		
4,655.0	4,575.1	4,563.7	4,531.1	16.9	15.4	159.26	209.7	334.6	959.4	932.3	27.11	35.390		
4,700.0	4,618.8	4,611.0	4,578.3	17.1	15.6	159.28	213.2	337.0	971.6	944.2	27.42	35.434		
4,750.0	4,667.3	4,663.8	4,630.8	17.4	15.8	159.33	216.8	339.5	985.0	957.3	27.76	35.479		
4,800.0	4,715.8	4,716.6	4,683.6	17.6	16.0	159.40	220.0	341.7	998.2	970.1	28.10	35.518		
4,845.0	4,759.5	4,764.3	4,731.1	17.8	16.2	159.48	222.6	343.4	1,009.9	981.5	28.41	35.550		
4,900.0	4,812.9	4,822.7	4,789.4	18.1	16.4	159.61	225.2	345.2	1,023.9	995.1	28.77	35.585		
4,940.0	4,851.7	4,865.2	4,831.9	18.2	16.5	159.72	226.9	346.3	1,033.9	1,004.8	29.03	35.609		
5,000.0	4,909.9	4,929.1	4,895.8	18.5	16.7	159.90	228.8	347.7	1,048.6	1,019.2	29.42	35.641		

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 #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #806H	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						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		
5,035.0	4,943.8	4,966.5	4,933.1	18.7	16.8	160.03	229.7	348.3	1,057.1	1,027.5	29.64	35.659		
5,100.0	5,006.9	5,035.9	5,002.5	19.0	17.0	160.28	230.8	349.0	1,072.6	1,042.5	30.05	35.697		
5,130.0	5,036.0	5,068.0	5,034.6	19.1	17.1	160.41	231.1	349.2	1,079.6	1,049.3	30.23	35.715		
5,200.0	5,103.9	5,139.8	5,106.4	19.5	17.2	160.71	231.2	349.3	1,095.7	1,065.0	30.60	35.801		
5,225.0	5,128.2	5,164.1	5,130.7	19.6	17.2	160.82	231.2	349.3	1,101.4	1,070.7	30.73	35.843		
5,300.0	5,201.0	5,236.9	5,203.5	19.9	17.2	161.12	231.2	349.3	1,118.6	1,087.5	31.10	35.963		
5,320.0	5,220.4	5,256.3	5,222.9	20.0	17.2	161.20	231.2	349.3	1,123.2	1,092.0	31.20	35.994		
5,400.0	5,298.0	5,333.9	5,300.5	20.4	17.3	161.51	231.2	349.3	1,141.6	1,110.0	31.61	36.112		
5,415.0	5,312.6	5,348.4	5,315.1	20.5	17.3	161.57	231.2	349.3	1,145.0	1,113.3	31.69	36.134		
5,500.0	5,395.0	5,430.9	5,397.5	20.9	17.3	161.89	231.2	349.3	1,164.6	1,132.5	32.12	36.253		
5,510.0	5,404.7	5,440.6	5,407.2	20.9	17.3	161.92	231.2	349.3	1,166.9	1,134.7	32.18	36.267		
5,600.0	5,492.1	5,527.9	5,494.6	21.4	17.4	162.25	231.2	349.3	1,187.7	1,155.0	32.64	36.388		
5,605.0	5,496.9	5,532.8	5,499.4	21.4	17.4	162.27	231.2	349.3	1,188.8	1,156.2	32.67	36.395		
5,700.0	5,589.1	5,625.0	5,591.6	21.8	17.4	162.60	231.2	349.3	1,210.8	1,177.7	33.16	36.517		
5,795.0	5,681.3	5,717.2	5,683.8	22.3	17.5	162.92	231.2	349.3	1,232.8	1,199.2	33.65	36.634		
5,800.0	5,686.1	5,722.0	5,688.6	22.3	17.5	162.93	231.2	349.3	1,234.0	1,200.3	33.68	36.640		
5,890.0	5,773.5	5,809.3	5,776.0	22.8	17.5	163.22	231.2	349.3	1,254.9	1,220.7	34.15	36.745		
5,900.0	5,783.2	5,819.0	5,785.7	22.8	17.5	163.26	231.2	349.3	1,257.2	1,223.0	34.20	36.757		
5,985.0	5,865.6	5,901.5	5,868.1	23.2	17.6	163.52	231.2	349.3	1,276.9	1,242.3	34.65	36.852		
6,000.0	5,880.2	5,916.1	5,882.7	23.3	17.6	163.57	231.2	349.3	1,280.4	1,245.7	34.73	36.869		
6,080.0	5,957.8	5,993.7	5,960.3	23.7	17.6	163.81	231.2	349.3	1,299.0	1,263.9	35.15	36.955		
6,100.0	5,977.2	6,013.1	5,979.7	23.8	17.6	163.87	231.2	349.3	1,303.7	1,268.4	35.26	36.976		

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 #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #806H	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 #708H - OWB - PWP1													Offset Site Error: 0.0 usft	
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8403-r.5 MWD+IFR1+MS						Rule Assigned:		Offset Well Error: 3.0 usft				
Measured	Reference	Offset	Semi Major Axis	Offset Wellbore Centre		Distance		Minimum Separation		Warning				
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation Factor			
0.0	0.0	3.2	3.2	3.0	3.0	157.92	-148.9	60.4	160.7					
95.0	95.0	98.2	98.2	3.0	3.0	157.92	-148.9	60.4	160.7	154.6	6.04	26.614		
100.0	100.0	103.2	103.2	3.0	3.0	157.92	-148.9	60.4	160.7	154.6	6.04	26.588		
190.0	190.0	193.2	193.2	3.1	3.1	157.92	-148.9	60.4	160.7	154.4	6.26	25.656		
200.0	200.0	203.2	203.2	3.1	3.2	157.92	-148.9	60.4	160.7	154.4	6.30	25.522		
285.0	285.0	288.2	288.2	3.3	3.3	157.92	-148.9	60.4	160.7	154.2	6.50	24.708		
300.0	300.0	303.2	303.2	3.3	3.3	157.92	-148.9	60.4	160.7	154.1	6.54	24.554		
380.0	380.0	383.2	383.2	3.4	3.4	157.92	-148.9	60.4	160.7	153.9	6.74	23.849		
400.0	400.0	403.2	403.2	3.4	3.4	157.92	-148.9	60.4	160.7	153.9	6.79	23.667		
475.0	475.0	478.2	478.2	3.5	3.5	157.92	-148.9	60.4	160.7	153.7	6.97	23.056		
500.0	500.0	503.2	503.2	3.5	3.5	157.92	-148.9	60.4	160.7	153.7	7.03	22.850		
570.0	570.0	573.2	573.2	3.6	3.6	157.92	-148.9	60.4	160.7	153.5	7.20	22.321		
600.0	600.0	603.2	603.2	3.6	3.6	157.92	-148.9	60.4	160.7	153.4	7.27	22.094		
665.0	665.0	668.2	668.2	3.7	3.7	157.92	-148.9	60.4	160.7	153.3	7.43	21.637		
700.0	700.0	703.2	703.2	3.8	3.8	157.92	-148.9	60.4	160.7	153.2	7.51	21.392		
760.0	760.0	763.2	763.2	3.8	3.8	157.92	-148.9	60.4	160.7	153.0	7.65	20.998		
800.0	800.0	803.2	803.2	3.9	3.9	157.92	-148.9	60.4	160.7	152.9	7.75	20.738		
855.0	855.0	858.2	858.2	4.0	4.0	157.92	-148.9	60.4	160.7	152.8	7.88	20.400		
900.0	900.0	903.2	903.2	4.0	4.0	157.92	-148.9	60.4	160.7	152.7	7.98	20.127		
950.0	950.0	953.2	953.2	4.1	4.1	157.92	-148.9	60.4	160.7	152.6	8.10	19.839		
1,000.0	1,000.0	1,003.2	1,003.2	4.1	4.1	157.92	-148.9	60.4	160.7	152.5	8.22	19.554		
1,045.0	1,045.0	1,048.2	1,048.2	4.2	4.2	157.92	-148.9	60.4	160.7	152.4	8.32	19.311		
1,100.0	1,100.0	1,103.2	1,103.2	4.2	4.2	157.92	-148.9	60.4	160.7	152.2	8.45	19.017		
1,140.0	1,140.0	1,143.2	1,143.2	4.3	4.3	157.92	-148.9	60.4	160.7	152.1	8.54	18.813		
1,200.0	1,200.0	1,203.2	1,203.2	4.4	4.4	157.92	-148.9	60.4	160.7	152.0	8.68	18.511		
1,235.0	1,235.0	1,238.2	1,238.2	4.4	4.4	157.92	-148.9	60.4	160.7	151.9	8.76	18.342		
1,300.0	1,300.0	1,303.2	1,303.2	4.5	4.5	157.92	-148.9	60.4	160.7	151.8	8.91	18.033		
1,330.0	1,330.0	1,333.2	1,333.2	4.5	4.5	157.92	-148.9	60.4	160.7	151.7	8.98	17.896		
1,400.0	1,400.0	1,403.2	1,403.2	4.6	4.6	157.92	-148.9	60.4	160.7	151.5	9.14	17.582		
1,425.0	1,425.0	1,428.2	1,428.2	4.6	4.6	157.92	-148.9	60.4	160.7	151.5	9.20	17.473		
1,500.0	1,500.0	1,503.4	1,503.4	4.7	4.7	157.92	-148.9	60.4	160.7	151.3	9.37	17.150		
1,520.0	1,520.0	1,524.6	1,524.6	4.7	4.8	-135.84	-148.8	60.4	160.6	151.2	9.43	17.032		
1,600.0	1,600.0	1,609.3	1,609.3	4.8	4.9	-136.22	-147.1	59.4	160.0	150.3	9.73	16.444		
1,615.0	1,615.0	1,625.2	1,625.1	4.9	5.0	-136.35	-146.5	59.1	159.8	150.0	9.80	16.306		
1,700.0	1,699.8	1,715.1	1,714.9	5.0	5.2	-137.43	-141.8	56.6	158.2	147.9	10.21	15.494		
1,710.0	1,709.8	1,725.6	1,725.4	5.1	5.2	-137.60	-141.0	56.3	157.9	147.7	10.26	15.397		
1,800.0	1,799.5	1,820.7	1,820.0	5.3	5.5	-139.50	-133.0	52.0	155.3	144.6	10.71	14.507		
1,805.0	1,804.4	1,825.9	1,825.2	5.3	5.5	-139.63	-132.5	51.8	155.2	144.4	10.73	14.456		
1,900.0	1,898.7	1,925.9	1,924.3	5.6	5.8	-142.50	-121.0	45.6	151.8	140.6	11.20	13.558		
1,995.0	1,992.5	2,020.4	2,017.8	5.9	6.0	-146.04	-108.6	39.1	149.7	138.1	11.66	12.837		
2,000.0	1,997.5	2,025.4	2,022.7	5.9	6.0	-146.24	-107.9	38.8	149.7	138.0	11.69	12.805		
2,008.4	2,005.8	2,033.8	2,031.0	5.9	6.0	-146.59	-106.9	38.2	149.7	138.0	11.74	12.753 CC, ES		
2,090.0	2,085.8	2,114.8	2,111.1	6.2	6.2	-150.21	-96.3	32.6	151.0	138.8	12.21	12.364		
2,100.0	2,095.6	2,124.7	2,120.9	6.3	6.2	-150.67	-95.0	31.9	151.3	139.0	12.27	12.331		
2,185.0	2,178.5	2,208.8	2,204.2	6.6	6.5	-154.74	-84.0	26.1	155.8	143.1	12.80	12.178		
2,200.0	2,193.0	2,223.6	2,218.8	6.6	6.5	-155.47	-82.0	25.1	157.0	144.1	12.89	12.175		
2,280.0	2,270.7	2,302.7	2,297.0	6.9	6.7	-159.26	-71.7	19.6	163.6	150.2	13.36	12.242		
2,300.0	2,290.1	2,322.4	2,316.5	6.9	6.8	-160.16	-69.1	18.3	165.3	151.9	13.48	12.265		
2,375.0	2,362.9	2,396.5	2,389.8	7.2	7.0	-163.36	-59.4	13.2	172.3	158.3	13.93	12.366		
2,400.0	2,387.1	2,421.2	2,414.2	7.3	7.1	-164.38	-56.2	11.5	174.7	160.6	14.08	12.406		
2,470.0	2,455.0	2,490.3	2,482.6	7.5	7.3	-167.06	-47.2	6.7	181.8	167.3	14.51	12.528		

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 #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #806H	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 #708H - OWB - PWP1														Offset Site Error: 0.0 usft	
Survey Program: Reference		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8403-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		
2,500.0	2,484.1	2,520.0	2,511.9	7.6	7.4	-168.15	-43.3	4.7	184.9	170.2	14.69	12.586			
2,565.0	2,547.2	2,584.1	2,575.3	7.8	7.7	-170.39	-34.9	0.2	192.0	176.9	15.09	12.718			
2,600.0	2,581.2	2,618.7	2,609.5	8.0	7.8	-171.53	-30.4	-2.2	195.9	180.6	15.31	12.794			
2,660.0	2,639.4	2,678.0	2,668.1	8.2	8.0	-173.38	-22.6	-6.3	202.7	187.0	15.68	12.928			
2,700.0	2,678.2	2,717.5	2,707.2	8.3	8.1	-174.54	-17.5	-9.0	207.4	191.5	15.93	13.022			
2,755.0	2,731.6	2,771.8	2,760.9	8.5	8.3	-176.06	-10.4	-12.7	214.0	197.7	16.27	13.152			
2,800.0	2,775.2	2,816.2	2,804.9	8.7	8.5	-177.23	-4.5	-15.8	219.5	202.9	16.55	13.262			
2,850.0	2,823.7	2,865.6	2,853.7	8.9	8.6	-178.47	1.9	-19.2	225.7	208.8	16.86	13.385			
2,900.0	2,872.3	2,915.0	2,902.6	9.1	8.8	-179.64	8.4	-22.6	232.0	214.8	17.17	13.511			
2,945.0	2,915.9	2,959.5	2,946.5	9.3	9.0	-179.36	14.2	-25.7	237.7	220.3	17.45	13.623			
3,000.0	2,969.3	3,013.8	3,000.3	9.5	9.2	-178.20	21.3	-29.4	244.8	227.0	17.79	13.763			
3,040.0	3,008.1	3,053.3	3,039.3	9.7	9.3	-177.40	26.4	-32.2	250.1	232.0	18.04	13.863			
3,100.0	3,066.3	3,112.5	3,097.9	9.9	9.6	-176.25	34.2	-36.2	258.0	239.6	18.41	14.016			
3,135.0	3,100.3	3,147.1	3,132.1	10.1	9.7	-175.62	38.7	-38.6	262.7	244.0	18.62	14.103			
3,200.0	3,163.4	3,211.3	3,195.6	10.4	9.9	-174.50	47.1	-43.1	271.4	252.4	19.03	14.266			
3,230.0	3,192.5	3,240.9	3,224.9	10.5	10.0	-174.01	51.0	-45.1	275.5	256.3	19.21	14.341			
3,300.0	3,260.4	3,310.1	3,293.3	10.8	10.3	-172.91	60.0	-49.9	285.1	265.4	19.64	14.514			
3,325.0	3,284.6	3,334.8	3,317.7	10.9	10.4	-172.54	63.2	-51.6	288.5	268.7	19.80	14.575			
3,400.0	3,357.4	3,408.8	3,391.0	11.2	10.7	-171.47	72.9	-56.7	298.9	278.7	20.26	14.757			
3,420.0	3,376.8	3,428.6	3,410.5	11.3	10.8	-171.19	75.5	-58.1	301.7	281.4	20.38	14.804			
3,500.0	3,454.4	3,507.6	3,488.7	11.7	11.1	-170.15	85.8	-63.5	313.0	292.1	20.87	14.994			
3,515.0	3,469.0	3,522.4	3,503.3	11.7	11.1	-169.96	87.8	-64.5	315.1	294.1	20.97	15.029			
3,600.0	3,551.5	3,606.4	3,586.3	12.1	11.5	-168.95	98.8	-70.3	327.1	305.7	21.49	15.225			
3,610.0	3,561.2	3,616.2	3,596.1	12.1	11.5	-168.83	100.1	-71.0	328.6	307.0	21.55	15.247			
3,700.0	3,648.5	3,705.1	3,684.0	12.5	11.9	-167.84	111.7	-77.1	341.5	319.3	22.10	15.449			
3,705.0	3,653.4	3,710.1	3,688.9	12.6	11.9	-167.79	112.3	-77.5	342.2	320.0	22.13	15.460			
3,800.0	3,745.5	3,803.9	3,781.7	13.0	12.3	-166.83	124.6	-84.0	355.9	333.2	22.71	15.667			
3,895.0	3,837.7	3,897.7	3,874.5	13.4	12.7	-165.94	136.9	-90.4	369.7	346.4	23.30	15.867			
3,900.0	3,842.6	3,902.7	3,879.4	13.4	12.7	-165.90	137.5	-90.8	370.4	347.1	23.33	15.878			
3,990.0	3,929.9	3,991.6	3,967.3	13.8	13.0	-165.11	149.1	-96.9	383.5	359.7	23.88	16.062			
4,000.0	3,939.6	4,001.4	3,977.1	13.9	13.1	-165.03	150.4	-97.6	385.0	361.1	23.94	16.082			
4,085.0	4,022.1	4,085.4	4,060.1	14.3	13.4	-164.35	161.4	-103.4	397.5	373.0	24.46	16.250			
4,100.0	4,036.6	4,100.2	4,074.7	14.3	13.5	-164.23	163.3	-104.4	399.7	375.1	24.55	16.279			
4,180.0	4,114.2	4,177.1	4,150.9	14.7	13.8	-163.67	173.2	-109.6	411.6	386.6	25.01	16.461			
4,200.0	4,133.6	4,196.1	4,169.6	14.8	13.8	-163.55	175.5	-110.8	414.7	389.6	25.12	16.508			
4,275.0	4,206.4	4,267.1	4,240.0	15.1	14.1	-163.19	183.7	-115.1	426.6	401.0	25.58	16.679			
4,300.0	4,230.7	4,290.7	4,263.5	15.3	14.2	-163.10	186.2	-116.5	430.7	404.9	25.73	16.737			
4,370.0	4,298.6	4,356.8	4,329.2	15.6	14.5	-162.90	192.9	-120.0	442.4	416.3	26.17	16.907			
4,400.0	4,327.7	4,385.1	4,357.3	15.7	14.6	-162.84	195.5	-121.4	447.6	421.2	26.36	16.981			
4,465.0	4,390.8	4,446.3	4,418.2	16.0	14.8	-162.77	200.8	-124.2	459.1	432.3	26.77	17.147			
4,500.0	4,424.7	4,479.2	4,451.0	16.2	14.9	-162.76	203.4	-125.6	465.4	438.4	27.00	17.239			
4,560.0	4,483.0	4,535.5	4,507.1	16.5	15.2	-162.79	207.5	-127.7	476.6	449.2	27.39	17.400			
4,600.0	4,521.8	4,573.0	4,544.5	16.7	15.3	-162.84	210.0	-129.0	484.2	456.6	27.65	17.509			
4,655.0	4,575.1	4,624.4	4,595.8	16.9	15.5	-162.94	213.0	-130.6	494.9	466.9	28.02	17.663			
4,700.0	4,618.8	4,666.4	4,637.7	17.1	15.6	-163.06	215.1	-131.7	503.9	475.6	28.32	17.793			
4,750.0	4,667.3	4,713.0	4,684.2	17.4	15.8	-163.21	217.2	-132.8	514.1	485.4	28.66	17.939			
4,800.0	4,715.8	4,759.4	4,730.6	17.6	15.9	-163.40	218.9	-133.8	524.5	495.5	28.99	18.090			
4,845.0	4,759.5	4,800.0	4,771.1	17.8	16.0	-163.58	220.2	-134.4	534.1	504.8	29.29	18.235			
4,900.0	4,812.9	4,852.0	4,823.1	18.1	16.2	-163.84	221.4	-135.1	546.1	516.4	29.67	18.405			
4,940.0	4,851.7	4,888.8	4,859.9	18.2	16.3	-164.04	222.0	-135.4	555.0	525.0	29.94	18.536			
5,000.0	4,909.9	4,944.0	4,915.1	18.5	16.4	-164.37	222.5	-135.7	568.6	538.3	30.31	18.756			

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 #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #806H	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 #708H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8403-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	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	4,943.8	4,977.9	4,949.0	18.7	16.4	164.59	222.6	-135.7	576.7	546.1	30.55	18.878
5,100.0	5,006.9	5,039.0	5,010.1	19.0	16.5	164.98	222.6	-135.7	591.9	561.0	30.93	19.135
5,130.0	5,036.0	5,068.1	5,039.2	19.1	16.5	165.16	222.6	-135.7	598.9	567.8	31.12	19.244
5,200.0	5,103.9	5,136.0	5,107.1	19.5	16.5	165.57	222.6	-135.7	615.3	583.8	31.56	19.495
5,225.0	5,128.2	5,160.3	5,131.4	19.6	16.5	165.70	222.6	-135.7	621.2	589.5	31.72	19.584
5,300.0	5,201.0	5,233.1	5,204.2	19.9	16.6	166.11	222.6	-135.7	638.8	606.6	32.19	19.847
5,320.0	5,220.4	5,252.5	5,223.6	20.0	16.6	166.21	222.6	-135.7	643.5	611.2	32.31	19.916
5,400.0	5,298.0	5,330.1	5,301.2	20.4	16.6	166.61	222.6	-135.7	662.4	629.6	32.81	20.190
5,415.0	5,312.6	5,344.6	5,315.8	20.5	16.6	166.68	222.6	-135.7	665.9	633.0	32.90	20.241
5,500.0	5,395.0	5,427.1	5,398.2	20.9	16.7	167.07	222.6	-135.7	686.0	652.6	33.42	20.525
5,510.0	5,404.7	5,436.8	5,407.9	20.9	16.7	167.12	222.6	-135.7	688.3	654.9	33.48	20.558
5,600.0	5,492.1	5,524.1	5,495.3	21.4	16.7	167.51	222.6	-135.7	709.6	675.6	34.03	20.852
5,605.0	5,496.9	5,529.0	5,500.1	21.4	16.7	167.53	222.6	-135.7	710.8	676.7	34.06	20.868
5,700.0	5,589.1	5,621.2	5,592.3	21.8	16.8	167.92	222.6	-135.7	733.3	698.6	34.64	21.171
5,795.0	5,681.3	5,713.4	5,684.5	22.3	16.9	168.28	222.6	-135.7	755.8	720.6	35.21	21.466
5,800.0	5,686.1	5,718.2	5,689.3	22.3	16.9	168.30	222.6	-135.7	757.0	721.7	35.24	21.481
5,890.0	5,773.5	5,805.5	5,776.7	22.8	16.9	168.63	222.6	-135.7	778.3	742.6	35.78	21.755
5,900.0	5,783.2	5,815.2	5,786.4	22.8	16.9	168.66	222.6	-135.7	780.7	744.9	35.84	21.785
5,985.0	5,865.6	5,897.7	5,868.8	23.2	17.0	168.95	222.6	-135.7	800.9	764.6	36.34	22.036
6,000.0	5,880.2	5,912.3	5,883.4	23.3	17.0	169.00	222.6	-135.7	804.5	768.0	36.43	22.080
6,080.0	5,957.8	5,989.9	5,961.0	23.7	17.0	169.26	222.6	-135.7	823.5	786.6	36.91	22.311
6,100.0	5,977.2	6,009.3	5,980.4	23.8	17.0	169.32	222.6	-135.7	828.3	791.2	37.03	22.369
6,175.0	6,050.0	6,082.1	6,053.2	24.1	17.1	169.55	222.6	-135.7	846.1	808.6	37.47	22.580
6,200.0	6,074.2	6,106.3	6,077.4	24.2	17.1	169.62	222.6	-135.7	852.1	814.4	37.62	22.650
6,270.0	6,142.2	6,174.2	6,145.4	24.6	17.1	169.82	222.6	-135.7	868.7	830.7	38.03	22.843
6,300.0	6,171.3	6,203.4	6,174.5	24.7	17.1	169.90	222.6	-135.7	875.9	837.7	38.21	22.924
6,365.0	6,234.3	6,266.4	6,237.5	25.0	17.2	170.08	222.6	-135.7	891.4	852.8	38.59	23.099
6,400.0	6,268.3	6,300.4	6,271.5	25.2	17.2	170.17	222.6	-135.7	899.7	860.9	38.80	23.192
6,460.0	6,326.5	6,358.6	6,329.7	25.5	17.2	170.33	222.6	-135.7	914.1	874.9	39.14	23.352
6,479.0	6,345.0	6,377.0	6,348.2	25.6	17.2	170.38	222.6	-135.7	918.6	879.3	39.25	23.402
6,500.0	6,365.3	6,397.4	6,368.5	25.7	17.3	170.45	222.6	-135.7	923.5	884.2	39.37	23.458
6,555.0	6,418.9	6,451.0	6,422.1	25.9	17.3	170.61	222.6	-135.7	935.8	896.1	39.69	23.574
6,600.0	6,462.9	6,495.0	6,466.1	26.2	17.3	170.74	222.6	-135.7	945.0	905.1	39.96	23.650
6,650.0	6,512.0	6,544.1	6,515.2	26.4	17.3	170.86	222.6	-135.7	954.5	914.3	40.24	23.720
6,700.0	6,561.2	6,593.3	6,564.4	26.6	17.4	170.97	222.6	-135.7	963.2	922.6	40.52	23.768
6,745.0	6,605.7	6,637.7	6,608.9	26.8	17.4	171.06	222.6	-135.7	970.2	929.5	40.77	23.799
6,800.0	6,660.1	6,692.2	6,663.3	27.1	17.4	171.15	222.6	-135.7	977.9	936.8	41.06	23.815
6,840.0	6,699.8	6,731.9	6,703.0	27.3	17.5	171.21	222.6	-135.7	982.8	941.6	41.27	23.817
6,900.0	6,759.5	6,791.5	6,762.7	27.5	17.5	171.29	222.6	-135.7	989.2	947.7	41.57	23.796
6,935.0	6,794.3	6,826.4	6,797.5	27.7	17.5	171.33	222.6	-135.7	992.4	950.6	41.74	23.777
7,000.0	6,859.1	6,891.2	6,862.3	27.9	17.5	171.38	222.6	-135.7	997.1	955.1	42.04	23.717
7,030.0	6,889.1	6,921.2	6,892.3	28.0	17.6	171.40	222.6	-135.7	998.8	956.7	42.17	23.686
7,100.0	6,959.0	6,991.1	6,962.2	28.3	17.6	171.44	222.6	-135.7	1,001.6	959.1	42.46	23.588
7,125.0	6,984.0	7,016.1	6,987.2	28.3	17.6	171.44	222.6	-135.7	1,002.2	959.6	42.52	23.570
7,179.0	7,038.0	7,070.1	7,041.2	28.4	17.7	105.19	222.6	-135.7	1,002.7	960.0	42.64	23.514
7,200.0	7,059.0	7,091.1	7,062.2	28.4	17.7	105.19	222.6	-135.7	1,002.7	960.0	42.66	23.505
7,220.0	7,079.0	7,111.1	7,082.2	28.4	17.7	105.19	222.6	-135.7	1,002.7	960.0	42.68	23.493
7,300.0	7,159.0	7,191.1	7,162.2	28.4	17.7	105.19	222.6	-135.7	1,002.7	959.9	42.76	23.448
7,315.0	7,174.0	7,206.1	7,177.2	28.4	17.7	105.19	222.6	-135.7	1,002.7	959.9	42.78	23.440
7,400.0	7,259.0	7,291.1	7,262.2	28.4	17.8	105.19	222.6	-135.7	1,002.7	959.8	42.86	23.392
7,410.0	7,269.0	7,301.1	7,272.2	28.4	17.8	105.19	222.6	-135.7	1,002.7	959.8	42.87	23.387

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 #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #806H	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 #708H - OWB - PWP1													Offset Site Error: 0.0 usft	
Survey Program: Reference		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8403-r.5 MWD+IFR1+MS						Rule Assigned:					Offset Well Error: 3.0 usft	
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	
7,500.0	7,359.0	7,391.1	7,362.2	28.5	17.9	105.19	222.6	-135.7	1,002.7	959.7	42.97	23.336		
7,505.0	7,364.0	7,396.1	7,367.2	28.5	17.9	105.19	222.6	-135.7	1,002.7	959.7	42.97	23.333		
7,600.0	7,459.0	7,491.1	7,462.2	28.5	17.9	105.19	222.6	-135.7	1,002.7	959.6	43.07	23.280		
7,695.0	7,554.0	7,586.1	7,557.2	28.5	18.0	105.19	222.6	-135.7	1,002.7	959.5	43.17	23.227		
7,700.0	7,559.0	7,591.1	7,562.2	28.5	18.0	105.19	222.6	-135.7	1,002.7	959.5	43.17	23.225		
7,790.0	7,649.0	7,681.1	7,652.2	28.6	18.0	105.19	222.6	-135.7	1,002.7	959.4	43.27	23.174		
7,800.0	7,659.0	7,691.1	7,662.2	28.6	18.0	105.19	222.6	-135.7	1,002.7	959.4	43.28	23.169		
7,885.0	7,744.0	7,776.1	7,747.2	28.6	18.1	105.19	222.6	-135.7	1,002.7	959.3	43.36	23.122		
7,900.0	7,759.0	7,791.1	7,762.2	28.6	18.1	105.19	222.6	-135.7	1,002.7	959.3	43.38	23.113		
7,980.0	7,839.0	7,871.1	7,842.2	28.6	18.1	105.19	222.6	-135.7	1,002.7	959.2	43.46	23.069		
8,000.0	7,859.0	7,891.1	7,862.2	28.6	18.2	105.19	222.6	-135.7	1,002.7	959.2	43.48	23.058		
8,075.0	7,934.0	7,966.1	7,937.2	28.7	18.2	105.19	222.6	-135.7	1,002.7	959.1	43.56	23.016		
8,100.0	7,959.0	7,991.1	7,962.2	28.7	18.2	105.19	222.6	-135.7	1,002.7	959.1	43.59	23.002		
8,170.0	8,029.0	8,061.1	8,032.2	28.7	18.3	105.19	222.6	-135.7	1,002.7	959.0	43.66	22.964		
8,200.0	8,059.0	8,091.1	8,062.2	28.7	18.3	105.19	222.6	-135.7	1,002.7	959.0	43.69	22.947		
8,265.0	8,124.0	8,156.1	8,127.2	28.7	18.3	105.19	222.6	-135.7	1,002.7	958.9	43.76	22.911		
8,300.0	8,159.0	8,191.1	8,162.2	28.7	18.3	105.19	222.6	-135.7	1,002.7	958.9	43.80	22.892		
8,360.0	8,219.0	8,251.1	8,222.2	28.8	18.4	105.19	222.6	-135.7	1,002.7	958.8	43.86	22.859		
8,400.0	8,259.0	8,291.1	8,262.2	28.8	18.4	105.19	222.6	-135.7	1,002.7	958.7	43.90	22.837		
8,455.0	8,314.0	8,346.1	8,317.2	28.8	18.4	105.19	222.6	-135.7	1,002.7	958.7	43.96	22.809		
8,500.0	8,359.0	8,391.1	8,362.2	28.8	18.5	105.19	222.6	-135.7	1,002.7	958.7	44.00	22.787		
8,550.0	8,409.0	8,429.3	8,400.5	28.8	18.5	105.23	222.0	-135.7	1,002.9	958.9	43.96	22.813		
8,600.0	8,459.0	8,463.8	8,434.8	28.8	18.5	105.37	219.4	-135.7	1,003.9	959.9	43.90	22.865		
8,645.0	8,504.0	8,500.0	8,470.7	28.8	18.6	105.65	214.4	-135.8	1,005.4	961.5	43.91	22.899		
8,700.0	8,559.0	8,531.1	8,501.1	28.9	18.6	105.98	208.3	-135.8	1,008.2	964.4	43.81	23.016		
8,740.0	8,599.0	8,550.0	8,519.5	28.9	18.6	106.23	203.8	-135.9	1,011.0	967.3	43.70	23.136		
8,800.0	8,659.0	8,600.0	8,567.3	28.9	18.7	107.03	189.0	-136.0	1,016.1	972.4	43.75	23.225		
8,835.0	8,694.0	8,616.3	8,582.5	28.9	18.7	107.34	183.3	-136.0	1,019.8	976.1	43.65	23.361		
8,900.0	8,759.0	8,650.0	8,613.5	28.9	18.7	108.05	170.1	-136.2	1,028.0	984.5	43.50	23.634		
8,930.0	8,789.0	8,671.1	8,632.5	28.9	18.8	108.55	161.0	-136.2	1,032.4	989.0	43.49	23.741		
9,000.0	8,859.0	8,700.0	8,658.0	29.0	18.8	109.27	147.3	-136.4	1,044.5	1,001.3	43.22	24.168		
9,025.0	8,884.0	8,721.1	8,676.1	29.0	18.8	109.84	136.5	-136.5	1,049.3	1,006.1	43.25	24.261		
9,100.0	8,959.0	8,750.0	8,700.3	29.0	18.9	110.67	120.7	-136.6	1,065.9	1,023.0	42.92	24.836		
9,120.0	8,979.0	8,766.2	8,713.4	29.0	18.9	111.16	111.3	-136.7	1,070.8	1,027.8	42.93	24.941		
9,200.0	9,059.0	8,800.0	8,740.1	29.0	18.9	112.23	90.4	-136.9	1,092.6	1,050.0	42.60	25.649		
9,215.0	9,074.0	8,800.0	8,740.1	29.0	18.9	112.23	90.4	-136.9	1,097.1	1,054.7	42.43	25.855		
9,308.0	9,167.0	8,850.0	8,777.1	29.1	19.0	113.92	56.9	-137.2	1,127.7	1,085.6	42.01	26.841		
9,310.0	9,169.0	8,850.0	8,777.1	29.1	19.0	-66.52	56.9	-137.2	1,128.3	1,086.4	41.99	26.870		
9,350.0	9,209.0	8,850.0	8,777.1	29.1	19.0	-65.15	56.9	-137.2	1,142.4	1,100.8	41.58	27.475		
9,400.0	9,258.6	8,875.7	8,795.0	29.1	19.0	-62.72	38.4	-137.3	1,159.5	1,118.1	41.37	28.026		
9,405.0	9,263.5	8,877.6	8,796.2	29.1	19.0	-62.51	37.0	-137.3	1,161.2	1,119.9	41.34	28.087		
9,450.0	9,307.6	8,900.0	8,811.1	29.1	19.0	-60.52	20.2	-137.5	1,176.1	1,135.0	41.13	28.592		
9,500.0	9,355.4	8,900.0	8,811.1	29.1	19.0	-59.07	20.2	-137.5	1,192.0	1,151.4	40.59	29.367		
9,550.0	9,401.9	8,933.0	8,831.7	29.1	19.1	-57.03	-5.6	-137.7	1,206.7	1,166.3	40.45	29.832		
9,595.0	9,442.2	8,950.0	8,841.7	29.1	19.1	-55.63	-19.3	-137.8	1,219.2	1,179.0	40.17	30.348		
9,600.0	9,446.5	8,950.0	8,841.7	29.1	19.1	-55.52	-19.3	-137.8	1,220.5	1,180.4	40.12	30.422		
9,650.0	9,489.1	8,972.2	8,854.2	29.2	19.1	-54.09	-37.7	-138.0	1,233.1	1,193.2	39.86	30.937		
9,690.0	9,521.3	9,000.0	8,868.8	29.2	19.2	-52.96	-61.3	-138.2	1,242.3	1,202.5	39.77	31.239		
9,700.0	9,529.1	9,000.0	8,868.8	29.2	19.2	-52.79	-61.3	-138.2	1,244.4	1,204.7	39.67	31.371		
9,750.0	9,566.5	9,000.0	8,868.8	29.2	19.2	-51.99	-61.3	-138.2	1,254.3	1,215.1	39.17	32.019		
9,785.0	9,590.8	9,026.2	8,881.4	29.2	19.2	-51.25	-84.2	-138.4	1,260.2	1,221.1	39.14	32.200		

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 #806H
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Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #806H	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 #708H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8403-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)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
9,800.0	9,600.7	9,032.2	8,884.2	29.2	19.2	-51.01	-89.6	-138.5	1,262.5	1,223.5	39.06	32.321		
9,850.0	9,631.7	9,050.0	8,892.1	29.2	19.2	-50.34	-105.6	-138.6	1,269.4	1,230.6	38.80	32.711		
9,880.0	9,648.6	9,050.0	8,892.1	29.3	19.2	-50.07	-105.6	-138.6	1,272.9	1,234.3	38.54	33.025		
9,900.0	9,659.2	9,072.6	8,901.3	29.3	19.2	-49.81	-126.2	-138.8	1,274.6	1,235.9	38.62	33.003		
9,950.0	9,682.9	9,100.0	8,911.4	29.3	19.3	-49.44	-151.6	-139.0	1,278.2	1,239.7	38.50	33.197		
9,975.0	9,693.3	9,100.0	8,911.4	29.3	19.3	-49.36	-151.6	-139.0	1,279.3	1,241.0	38.31	33.397		
10,000.0	9,702.6	9,100.0	8,911.4	29.3	19.3	-49.29	-151.6	-139.0	1,280.2	1,242.1	38.11	33.588		
10,050.0	9,718.3	9,133.6	8,922.2	29.4	19.3	-49.26	-183.5	-139.3	1,280.2	1,242.1	38.10	33.598		
10,070.0	9,723.5	9,150.0	8,926.7	29.4	19.3	-49.31	-199.2	-139.4	1,279.9	1,241.7	38.14	33.562		
10,100.0	9,729.8	9,150.0	8,926.7	29.4	19.3	-49.39	-199.2	-139.4	1,278.7	1,240.8	37.93	33.711		
10,150.0	9,737.1	9,174.2	8,932.6	29.5	19.3	-49.71	-222.7	-139.7	1,275.6	1,237.7	37.86	33.689		
10,165.0	9,738.4	9,180.3	8,933.9	29.5	19.3	-49.84	-228.7	-139.7	1,274.3	1,236.5	37.83	33.681		
10,200.0	9,739.9	9,200.0	8,937.8	29.5	19.3	-50.22	-248.0	-139.9	1,270.8	1,232.9	37.83	33.593		
10,207.7	9,740.0	9,200.0	8,937.8	29.5	19.3	-50.29	-248.0	-139.9	1,269.9	1,232.1	37.78	33.611		
10,260.0	9,740.0	9,218.9	8,940.9	29.6	19.3	-50.40	-266.6	-140.0	1,264.3	1,226.7	37.66	33.569		
10,300.0	9,740.0	9,235.3	8,943.0	29.6	19.3	-50.47	-282.9	-140.2	1,261.0	1,223.4	37.59	33.546		
10,355.0	9,740.1	9,250.0	8,944.6	29.7	19.4	-50.53	-297.5	-140.3	1,257.6	1,220.2	37.42	33.611		
10,400.0	9,740.1	9,276.9	8,946.4	29.7	19.4	-50.59	-324.3	-140.6	1,255.8	1,218.4	37.43	33.555		
10,450.0	9,740.1	9,302.1	8,947.0	29.8	19.4	-50.61	-349.5	-140.8	1,255.0	1,217.6	37.39	33.561		
10,473.9	9,740.1	9,315.8	8,947.0	29.9	19.4	-50.61	-363.2	-140.9	1,254.9	1,217.5	37.39	33.562		
10,500.0	9,740.2	9,341.9	8,947.1	29.9	19.4	-50.61	-389.3	-141.1	1,254.9	1,217.4	37.49	33.470		
10,545.0	9,740.2	9,386.9	8,947.1	30.0	19.4	-50.62	-434.3	-141.5	1,254.9	1,217.2	37.68	33.302		
10,600.0	9,740.2	9,441.9	8,947.2	30.1	19.4	-50.62	-489.3	-142.0	1,254.8	1,216.9	37.93	33.086		
10,640.0	9,740.2	9,481.9	8,947.3	30.1	19.5	-50.62	-529.3	-142.4	1,254.8	1,216.7	38.12	32.919		
10,700.0	9,740.3	9,541.9	8,947.4	30.2	19.5	-50.62	-589.3	-142.9	1,254.8	1,216.4	38.42	32.660		
10,735.0	9,740.3	9,576.9	8,947.4	30.3	19.5	-50.62	-624.3	-143.2	1,254.8	1,216.2	38.61	32.501		
10,800.0	9,740.3	9,641.9	8,947.5	30.4	19.6	-50.62	-689.3	-143.8	1,254.7	1,215.8	38.97	32.198		
10,830.0	9,740.3	9,671.9	8,947.5	30.5	19.6	-50.62	-719.3	-144.1	1,254.7	1,215.6	39.15	32.051		
10,900.0	9,740.4	9,741.9	8,947.7	30.6	19.7	-50.63	-789.3	-144.7	1,254.7	1,215.1	39.57	31.705		
10,925.0	9,740.4	9,766.9	8,947.7	30.7	19.7	-50.63	-814.3	-144.9	1,254.6	1,214.9	39.73	31.576		
11,000.0	9,740.4	9,841.9	8,947.8	30.8	19.8	-50.63	-889.3	-145.6	1,254.6	1,214.4	40.23	31.186		
11,020.0	9,740.4	9,861.9	8,947.8	30.9	19.8	-50.63	-909.3	-145.7	1,254.6	1,214.2	40.37	31.079		
11,100.0	9,740.5	9,941.9	8,947.9	31.1	19.9	-50.63	-989.3	-146.5	1,254.5	1,213.6	40.93	30.647		
11,115.0	9,740.5	9,956.9	8,948.0	31.1	19.9	-50.63	-1,004.3	-146.6	1,254.5	1,213.5	41.05	30.564		
11,200.0	9,740.5	10,041.9	8,948.1	31.3	20.0	-50.64	-1,089.3	-147.3	1,254.5	1,212.8	41.69	30.094		
11,210.0	9,740.5	10,051.9	8,948.1	31.3	20.0	-50.64	-1,099.3	-147.4	1,254.5	1,212.7	41.76	30.037		
11,300.0	9,740.6	10,141.9	8,948.2	31.6	20.1	-50.64	-1,189.2	-148.2	1,254.4	1,211.9	42.48	29.529		
11,305.0	9,740.6	10,146.9	8,948.3	31.6	20.1	-50.64	-1,194.2	-148.3	1,254.4	1,211.9	42.52	29.500		
11,400.0	9,740.6	10,241.9	8,948.4	31.8	20.3	-50.64	-1,289.2	-149.1	1,254.4	1,211.0	43.32	28.958		
11,495.0	9,740.7	10,336.9	8,948.5	32.1	20.5	-50.65	-1,384.2	-150.0	1,254.3	1,210.2	44.15	28.411		
11,500.0	9,740.7	10,341.9	8,948.5	32.1	20.5	-50.65	-1,389.2	-150.0	1,254.3	1,210.1	44.19	28.383		
11,590.0	9,740.7	10,431.9	8,948.7	32.4	20.7	-50.65	-1,479.2	-150.8	1,254.2	1,209.2	45.01	27.865		
11,600.0	9,740.7	10,441.9	8,948.7	32.4	20.7	-50.65	-1,489.2	-150.9	1,254.2	1,209.1	45.10	27.808		
11,685.0	9,740.8	10,526.9	8,948.8	32.7	20.9	-50.65	-1,574.2	-151.7	1,254.2	1,208.3	45.91	27.321		
11,700.0	9,740.8	10,541.9	8,948.8	32.7	21.0	-50.65	-1,589.2	-151.8	1,254.2	1,208.1	46.05	27.236		
11,780.0	9,740.8	10,621.9	8,949.0	33.0	21.2	-50.66	-1,669.2	-152.5	1,254.1	1,207.3	46.83	26.781		
11,800.0	9,740.8	10,641.9	8,949.0	33.1	21.3	-50.66	-1,689.2	-152.7	1,254.1	1,207.1	47.03	26.669		
11,875.0	9,740.9	10,716.9	8,949.1	33.3	21.5	-50.66	-1,764.2	-153.3	1,254.1	1,206.3	47.78	26.247		
11,900.0	9,740.9	10,741.9	8,949.1	33.4	21.6	-50.66	-1,789.2	-153.6	1,254.1	1,206.0	48.03	26.108		
11,970.0	9,740.9	10,811.9	8,949.2	33.7	21.8	-50.66	-1,859.2	-154.2	1,254.0	1,205.3	48.76	25.721		
12,000.0	9,740.9	10,841.9	8,949.3	33.8	21.9	-50.66	-1,889.2	-154.4	1,254.0	1,204.9	49.07	25.557		

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 #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #806H	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 #708H - OWB - PWP1													Offset Site Error: 0.0 usft	
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8403-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	
12,065.0	9,741.0	10,906.9	8,949.4	34.0	22.2	-50.67	-1,954.2	-155.0	1,254.0	1,204.2	49.76	25.203		
12,100.0	9,741.0	10,941.9	8,949.4	34.1	22.3	-50.67	-1,989.2	-155.3	1,253.9	1,203.8	50.13	25.014		
12,160.0	9,741.0	11,001.9	8,949.5	34.4	22.6	-50.67	-2,049.2	-155.9	1,253.9	1,203.1	50.78	24.694		
12,200.0	9,741.1	11,041.9	8,949.6	34.5	22.8	-50.67	-2,089.2	-156.2	1,253.9	1,202.7	51.21	24.483		
12,255.0	9,741.1	11,096.9	8,949.7	34.7	23.0	-50.67	-2,144.2	-156.7	1,253.8	1,202.0	51.82	24.195		
12,300.0	9,741.1	11,141.9	8,949.7	34.9	23.2	-50.67	-2,189.2	-157.1	1,253.8	1,201.5	52.32	23.963		
12,350.0	9,741.1	11,191.9	8,949.8	35.1	23.5	-50.68	-2,239.2	-157.6	1,253.8	1,200.9	52.89	23.707		
12,400.0	9,741.2	11,241.9	8,949.9	35.3	23.7	-50.68	-2,289.2	-158.0	1,253.8	1,200.3	53.45	23.455		
12,445.0	9,741.2	11,286.9	8,949.9	35.5	24.0	-50.68	-2,334.2	-158.4	1,253.7	1,199.8	53.97	23.230		
12,500.0	9,741.2	11,341.9	8,950.0	35.7	24.2	-50.68	-2,389.2	-158.9	1,253.7	1,199.1	54.60	22.960		
12,540.0	9,741.2	11,381.9	8,950.1	35.9	24.5	-50.68	-2,429.2	-159.2	1,253.7	1,198.6	55.07	22.765		
12,600.0	9,741.3	11,441.9	8,950.2	36.1	24.8	-50.68	-2,489.2	-159.8	1,253.6	1,197.9	55.77	22.477		
12,635.0	9,741.3	11,476.9	8,950.2	36.3	25.0	-50.69	-2,524.2	-160.1	1,253.6	1,197.4	56.19	22.311		
12,700.0	9,741.3	11,541.9	8,950.3	36.6	25.3	-50.69	-2,589.2	-160.7	1,253.6	1,196.6	56.96	22.008		
12,730.0	9,741.3	11,571.9	8,950.4	36.7	25.5	-50.69	-2,619.2	-160.9	1,253.6	1,196.2	57.32	21.869		
12,800.0	9,741.4	11,641.9	8,950.5	37.0	25.9	-50.69	-2,689.2	-161.5	1,253.5	1,195.4	58.16	21.552		
12,825.0	9,741.4	11,666.9	8,950.5	37.1	26.1	-50.69	-2,714.2	-161.8	1,253.5	1,195.0	58.47	21.439		
12,900.0	9,741.4	11,741.9	8,950.6	37.5	26.5	-50.69	-2,789.2	-162.4	1,253.5	1,194.1	59.38	21.108		
12,920.0	9,741.4	11,761.9	8,950.6	37.6	26.6	-50.70	-2,809.2	-162.6	1,253.5	1,193.8	59.63	21.021		
13,000.0	9,741.5	11,841.9	8,950.8	37.9	27.1	-50.70	-2,889.2	-163.3	1,253.4	1,192.8	60.62	20.677		
13,015.0	9,741.5	11,856.9	8,950.8	38.0	27.2	-50.70	-2,904.2	-163.5	1,253.4	1,192.6	60.80	20.614		
13,100.0	9,741.5	11,941.9	8,950.9	38.4	27.7	-50.70	-2,989.2	-164.2	1,253.3	1,191.5	61.86	20.259		
13,110.0	9,741.5	11,951.9	8,950.9	38.5	27.8	-50.70	-2,999.2	-164.3	1,253.3	1,191.3	61.99	20.218		
13,200.0	9,741.6	12,041.9	8,951.1	38.9	28.3	-50.70	-3,089.2	-165.1	1,253.3	1,190.2	63.13	19.854		
13,205.0	9,741.6	12,046.9	8,951.1	38.9	28.4	-50.70	-3,094.2	-165.1	1,253.3	1,190.1	63.19	19.834		
13,300.0	9,741.6	12,141.9	8,951.2	39.4	29.0	-50.71	-3,189.2	-166.0	1,253.2	1,188.8	64.40	19.460		
13,395.0	9,741.7	12,236.9	8,951.3	39.9	29.6	-50.71	-3,284.2	-166.8	1,253.2	1,187.5	65.62	19.098		
13,400.0	9,741.7	12,241.9	8,951.4	39.9	29.6	-50.71	-3,289.2	-166.9	1,253.2	1,187.5	65.68	19.079		
13,490.0	9,741.7	12,331.9	8,951.5	40.3	30.2	-50.71	-3,379.2	-167.7	1,253.1	1,186.3	66.85	18.745		
13,500.0	9,741.7	12,341.9	8,951.5	40.4	30.3	-50.71	-3,389.2	-167.8	1,253.1	1,186.1	66.98	18.709		
13,585.0	9,741.8	12,426.9	8,951.6	40.8	30.8	-50.72	-3,474.2	-168.5	1,253.1	1,185.0	68.09	18.403		
13,600.0	9,741.8	12,441.9	8,951.6	40.9	30.9	-50.72	-3,489.2	-168.6	1,253.0	1,184.8	68.28	18.350		
13,680.0	9,741.8	12,521.9	8,951.8	41.3	31.5	-50.72	-3,569.1	-169.4	1,253.0	1,183.7	69.34	18.071		
13,700.0	9,741.8	12,541.9	8,951.8	41.4	31.6	-50.72	-3,589.1	-169.5	1,253.0	1,183.4	69.60	18.003		
13,775.0	9,741.9	12,616.9	8,951.9	41.8	32.1	-50.72	-3,664.1	-170.2	1,252.9	1,182.3	70.59	17.749		
13,800.0	9,741.9	12,641.9	8,951.9	42.0	32.3	-50.72	-3,689.1	-170.4	1,252.9	1,182.0	70.92	17.666		
13,870.0	9,741.9	12,711.9	8,952.0	42.4	32.7	-50.73	-3,759.1	-171.0	1,252.9	1,181.0	71.86	17.436		
13,900.0	9,742.0	12,741.9	8,952.1	42.5	32.9	-50.73	-3,789.1	-171.3	1,252.9	1,180.6	72.26	17.339		
13,965.0	9,742.0	12,806.9	8,952.2	42.9	33.4	-50.73	-3,854.1	-171.9	1,252.8	1,179.7	73.13	17.132		
14,000.0	9,742.0	12,841.9	8,952.2	43.1	33.6	-50.73	-3,889.1	-172.2	1,252.8	1,179.2	73.60	17.022		
14,060.0	9,742.0	12,901.9	8,952.3	43.4	34.0	-50.73	-3,949.1	-172.7	1,252.8	1,178.4	74.41	16.837		
14,100.0	9,742.1	12,941.9	8,952.4	43.6	34.3	-50.73	-3,989.1	-173.1	1,252.7	1,177.8	74.95	16.715		
14,155.0	9,742.1	12,996.9	8,952.5	43.9	34.7	-50.74	-4,044.1	-173.6	1,252.7	1,177.0	75.69	16.550		
14,200.0	9,742.1	13,041.9	8,952.5	44.2	35.0	-50.74	-4,089.1	-174.0	1,252.7	1,176.4	76.30	16.417		
14,250.0	9,742.1	13,091.9	8,952.6	44.5	35.3	-50.74	-4,139.1	-174.4	1,252.7	1,175.7	76.99	16.271		
14,300.0	9,742.2	13,141.9	8,952.7	44.7	35.7	-50.74	-4,189.1	-174.9	1,252.6	1,175.0	77.67	16.128		
14,345.0	9,742.2	13,186.9	8,952.7	45.0	36.0	-50.74	-4,234.1	-175.3	1,252.6	1,174.3	78.28	16.001		
14,400.0	9,742.2	13,241.9	8,952.8	45.3	36.4	-50.74	-4,289.1	-175.7	1,252.6	1,173.5	79.04	15.848		
14,440.0	9,742.2	13,281.9	8,952.9	45.6	36.6	-50.75	-4,329.1	-176.1	1,252.5	1,172.9	79.59	15.738		
14,500.0	9,742.3	13,341.9	8,953.0	45.9	37.1	-50.75	-4,389.1	-176.6	1,252.5	1,172.1	80.41	15.576		
14,535.0	9,742.3	13,376.9	8,953.0	46.1	37.3	-50.75	-4,424.1	-176.9	1,252.5	1,171.6	80.90	15.482		

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 #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #806H	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 #708H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8403-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)			
14,600.0	9,742.3	13,441.9	8,953.1	46.5	37.8	-50.75	-4,489.1	-177.5	1,252.4	1,170.6	81.80	15.312	
14,630.0	9,742.3	13,471.9	8,953.2	46.7	38.0	-50.75	-4,519.1	-177.8	1,252.4	1,170.2	82.21	15.234	
14,700.0	9,742.4	13,541.9	8,953.3	47.1	38.5	-50.76	-4,589.1	-178.4	1,252.4	1,169.2	83.18	15.056	
14,725.0	9,742.4	13,566.9	8,953.3	47.2	38.6	-50.76	-4,614.1	-178.6	1,252.4	1,168.8	83.53	14.993	
14,800.0	9,742.4	13,641.9	8,953.4	47.7	39.2	-50.76	-4,689.1	-179.3	1,252.3	1,167.7	84.58	14.807	
14,820.0	9,742.4	13,661.9	8,953.5	47.8	39.3	-50.76	-4,709.1	-179.5	1,252.3	1,167.5	84.86	14.758	
14,900.0	9,742.5	13,741.9	8,953.6	48.3	39.9	-50.76	-4,789.1	-180.2	1,252.3	1,166.3	85.98	14.565	
14,915.0	9,742.5	13,756.9	8,953.6	48.4	40.0	-50.76	-4,804.1	-180.3	1,252.3	1,166.1	86.19	14.530	
15,000.0	9,742.5	13,841.9	8,953.7	48.9	40.6	-50.77	-4,889.1	-181.1	1,252.2	1,164.8	87.38	14.331	
15,010.0	9,742.5	13,851.9	8,953.7	48.9	40.7	-50.77	-4,899.1	-181.2	1,252.2	1,164.7	87.52	14.307	
15,100.0	9,742.6	13,941.9	8,953.9	49.5	41.3	-50.77	-4,989.1	-182.0	1,252.1	1,163.4	88.79	14.103	
15,105.0	9,742.6	13,946.9	8,953.9	49.5	41.3	-50.77	-4,994.1	-182.0	1,252.1	1,163.3	88.86	14.091	
15,200.0	9,742.6	14,041.9	8,954.0	50.1	42.0	-50.77	-5,089.1	-182.9	1,252.1	1,161.9	90.20	13.881	
15,295.0	9,742.7	14,136.9	8,954.2	50.7	42.7	-50.78	-5,184.1	-183.7	1,252.0	1,160.5	91.55	13.676	
15,300.0	9,742.7	14,141.9	8,954.2	50.7	42.7	-50.78	-5,189.1	-183.7	1,252.0	1,160.4	91.62	13.666	
15,390.0	9,742.7	14,231.9	8,954.3	51.3	43.4	-50.78	-5,279.1	-184.5	1,252.0	1,159.1	92.90	13.477	
15,400.0	9,742.7	14,241.9	8,954.3	51.3	43.5	-50.78	-5,289.1	-184.6	1,252.0	1,158.9	93.04	13.457	
15,485.0	9,742.8	14,326.9	8,954.4	51.9	44.1	-50.78	-5,374.1	-185.4	1,251.9	1,157.7	94.25	13.283	
15,500.0	9,742.8	14,341.9	8,954.5	52.0	44.2	-50.78	-5,389.1	-185.5	1,251.9	1,157.4	94.46	13.253	
15,580.0	9,742.8	14,421.9	8,954.6	52.5	44.8	-50.78	-5,469.1	-186.2	1,251.9	1,156.2	95.60	13.094	
15,600.0	9,742.9	14,441.9	8,954.6	52.6	44.9	-50.79	-5,489.1	-186.4	1,251.8	1,156.0	95.89	13.055	
15,675.0	9,742.9	14,516.9	8,954.7	53.1	45.4	-50.79	-5,564.1	-187.1	1,251.8	1,154.8	96.96	12.910	
15,700.0	9,742.9	14,541.9	8,954.8	53.2	45.6	-50.79	-5,589.1	-187.3	1,251.8	1,154.5	97.32	12.862	
15,770.0	9,742.9	14,611.9	8,954.9	53.7	46.1	-50.79	-5,659.1	-187.9	1,251.7	1,153.4	98.33	12.730	
15,800.0	9,743.0	14,641.9	8,954.9	53.9	46.3	-50.79	-5,689.1	-188.2	1,251.7	1,153.0	98.76	12.675	
15,865.0	9,743.0	14,706.9	8,955.0	54.3	46.8	-50.79	-5,754.1	-188.8	1,251.7	1,152.0	99.69	12.555	
15,900.0	9,743.0	14,741.9	8,955.0	54.5	47.1	-50.80	-5,789.1	-189.1	1,251.7	1,151.5	100.20	12.492	
15,960.0	9,743.0	14,801.9	8,955.1	54.9	47.5	-50.80	-5,849.1	-189.6	1,251.6	1,150.6	101.06	12.385	
16,000.0	9,743.1	14,841.9	8,955.2	55.2	47.8	-50.80	-5,889.1	-190.0	1,251.6	1,150.0	101.64	12.314	
16,055.0	9,743.1	14,896.9	8,955.3	55.5	48.2	-50.80	-5,944.1	-190.4	1,251.6	1,149.1	102.43	12.218	
16,100.0	9,743.1	14,941.9	8,955.3	55.8	48.5	-50.80	-5,989.1	-190.8	1,251.5	1,148.5	103.08	12.141	
16,150.0	9,743.1	14,991.9	8,955.4	56.1	48.9	-50.80	-6,039.0	-191.3	1,251.5	1,147.7	103.81	12.056	
16,200.0	9,743.2	15,041.9	8,955.5	56.5	49.3	-50.81	-6,089.0	-191.7	1,251.5	1,147.0	104.53	11.972	
16,245.0	9,743.2	15,086.9	8,955.6	56.7	49.6	-50.81	-6,134.0	-192.1	1,251.5	1,146.3	105.18	11.898	
16,300.0	9,743.2	15,141.9	8,955.6	57.1	50.0	-50.81	-6,189.0	-192.6	1,251.4	1,145.4	105.98	11.808	
16,340.0	9,743.2	15,181.9	8,955.7	57.4	50.3	-50.81	-6,229.0	-193.0	1,251.4	1,144.8	106.56	11.743	
16,400.0	9,743.3	15,241.9	8,955.8	57.8	50.7	-50.81	-6,289.0	-193.5	1,251.4	1,143.9	107.43	11.648	
16,435.0	9,743.3	15,276.9	8,955.8	58.0	51.0	-50.81	-6,324.0	-193.8	1,251.3	1,143.4	107.94	11.593	
16,500.0	9,743.3	15,341.9	8,955.9	58.4	51.5	-50.82	-6,389.0	-194.4	1,251.3	1,142.4	108.89	11.492	
16,530.0	9,743.3	15,371.9	8,956.0	58.6	51.7	-50.82	-6,419.0	-194.7	1,251.3	1,142.0	109.33	11.445	
16,600.0	9,743.4	15,441.9	8,956.1	59.1	52.2	-50.82	-6,489.0	-195.3	1,251.2	1,140.9	110.35	11.339	
16,625.0	9,743.4	15,466.9	8,956.1	59.2	52.4	-50.82	-6,514.0	-195.5	1,251.2	1,140.5	110.71	11.302	
16,700.0	9,743.4	15,541.9	8,956.2	59.7	52.9	-50.82	-6,589.0	-196.2	1,251.2	1,139.4	111.81	11.191	
16,720.0	9,743.4	15,561.9	8,956.3	59.9	53.1	-50.82	-6,609.0	-196.3	1,251.2	1,139.1	112.10	11.161	
16,800.0	9,743.5	15,641.9	8,956.4	60.4	53.7	-50.83	-6,689.0	-197.1	1,251.1	1,137.9	113.27	11.046	
16,815.0	9,743.5	15,656.9	8,956.4	60.5	53.8	-50.83	-6,704.0	-197.2	1,251.1	1,137.6	113.49	11.024	
16,900.0	9,743.5	15,741.9	8,956.5	61.1	54.4	-50.83	-6,789.0	-197.9	1,251.1	1,136.3	114.73	10.904	
16,910.0	9,743.5	15,751.9	8,956.5	61.1	54.5	-50.83	-6,799.0	-198.0	1,251.1	1,136.2	114.88	10.890	
17,000.0	9,743.6	15,841.9	8,956.7	61.8	55.1	-50.83	-6,889.0	-198.8	1,251.0	1,134.8	116.20	10.766	
17,005.0	9,743.6	15,846.9	8,956.7	61.8	55.2	-50.83	-6,894.0	-198.9	1,251.0	1,134.7	116.27	10.759	
17,100.0	9,743.6	15,941.9	8,956.8	62.4	55.9	-50.84	-6,989.0	-199.7	1,250.9	1,133.3	117.67	10.631	

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 #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #806H	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 #708H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8403-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum Separation		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation Factor	
17,195.0	9,743.7	16,036.9	8,957.0	63.1	56.6	-50.84	-7,084.0	-200.6	1,250.9	1,131.8	119.07	10.506
17,200.0	9,743.7	16,041.9	8,957.0	63.1	56.6	-50.84	-7,089.0	-200.6	1,250.9	1,131.7	119.14	10.499
17,290.0	9,743.7	16,131.9	8,957.1	63.7	57.3	-50.84	-7,179.0	-201.4	1,250.8	1,130.4	120.46	10.383
17,300.0	9,743.8	16,141.9	8,957.1	63.8	57.3	-50.84	-7,189.0	-201.5	1,250.8	1,130.2	120.61	10.371
17,385.0	9,743.8	16,226.9	8,957.2	64.4	58.0	-50.85	-7,274.0	-202.2	1,250.8	1,128.9	121.87	10.264
17,400.0	9,743.8	16,241.9	8,957.3	64.5	58.1	-50.85	-7,289.0	-202.4	1,250.8	1,128.7	122.09	10.245
17,480.0	9,743.8	16,321.9	8,957.4	65.0	58.7	-50.85	-7,369.0	-203.1	1,250.7	1,127.4	123.27	10.146
17,500.0	9,743.9	16,341.9	8,957.4	65.1	58.8	-50.85	-7,389.0	-203.3	1,250.7	1,127.1	123.56	10.122
17,575.0	9,743.9	16,416.9	8,957.5	65.7	59.4	-50.85	-7,464.0	-203.9	1,250.7	1,126.0	124.67	10.032
17,600.0	9,743.9	16,441.9	8,957.6	65.8	59.6	-50.85	-7,489.0	-204.2	1,250.6	1,125.6	125.04	10.002
17,670.0	9,743.9	16,511.9	8,957.7	66.3	60.1	-50.86	-7,559.0	-204.8	1,250.6	1,124.5	126.08	9.919
17,700.0	9,744.0	16,541.9	8,957.7	66.5	60.3	-50.86	-7,589.0	-205.0	1,250.6	1,124.1	126.52	9.885
17,765.0	9,744.0	16,606.9	8,957.8	67.0	60.8	-50.86	-7,654.0	-205.6	1,250.5	1,123.1	127.48	9.810
17,800.0	9,744.0	16,641.9	8,957.9	67.2	61.0	-50.86	-7,689.0	-205.9	1,250.5	1,122.5	128.00	9.770
17,860.0	9,744.0	16,701.9	8,957.9	67.6	61.5	-50.86	-7,749.0	-206.5	1,250.5	1,121.6	128.89	9.702
17,900.0	9,744.1	16,741.9	8,958.0	67.9	61.8	-50.86	-7,789.0	-206.8	1,250.5	1,121.0	129.48	9.657
17,955.0	9,744.1	16,796.9	8,958.1	68.3	62.2	-50.87	-7,844.0	-207.3	1,250.4	1,120.1	130.30	9.597
18,000.0	9,744.1	16,841.9	8,958.2	68.6	62.5	-50.87	-7,889.0	-207.7	1,250.4	1,119.4	130.97	9.548
18,050.0	9,744.1	16,891.9	8,958.2	68.9	62.9	-50.87	-7,939.0	-208.1	1,250.4	1,118.7	131.71	9.493
18,100.0	9,744.2	16,941.9	8,958.3	69.3	63.3	-50.87	-7,989.0	-208.6	1,250.3	1,117.9	132.45	9.440
18,145.0	9,744.2	16,986.9	8,958.4	69.6	63.6	-50.87	-8,034.0	-209.0	1,250.3	1,117.2	133.12	9.392
18,200.0	9,744.2	17,041.9	8,958.5	70.0	64.0	-50.87	-8,089.0	-209.5	1,250.3	1,116.3	133.94	9.335
18,240.0	9,744.2	17,081.9	8,958.5	70.2	64.3	-50.87	-8,129.0	-209.8	1,250.3	1,115.7	134.53	9.293
18,300.0	9,744.3	17,141.9	8,958.6	70.7	64.8	-50.88	-8,189.0	-210.4	1,250.2	1,114.8	135.43	9.232
18,335.0	9,744.3	17,176.9	8,958.7	70.9	65.0	-50.88	-8,224.0	-210.7	1,250.2	1,114.3	135.95	9.196
18,400.0	9,744.3	17,241.9	8,958.7	71.4	65.5	-50.88	-8,289.0	-211.3	1,250.2	1,113.3	136.92	9.131
18,430.0	9,744.3	17,271.9	8,958.8	71.6	65.7	-50.88	-8,319.0	-211.5	1,250.1	1,112.8	137.36	9.101
18,500.0	9,744.4	17,341.9	8,958.9	72.1	66.3	-50.88	-8,389.0	-212.1	1,250.1	1,111.7	138.41	9.032
18,525.0	9,744.4	17,366.9	8,958.9	72.2	66.4	-50.88	-8,414.0	-212.4	1,250.1	1,111.3	138.78	9.008
18,600.0	9,744.4	17,441.9	8,959.0	72.8	67.0	-50.89	-8,488.9	-213.0	1,250.0	1,110.1	139.90	8.935
18,620.0	9,744.4	17,461.9	8,959.1	72.9	67.2	-50.89	-8,508.9	-213.2	1,250.0	1,109.8	140.20	8.916
18,700.0	9,744.5	17,541.9	8,959.2	73.5	67.8	-50.89	-8,588.9	-213.9	1,250.0	1,108.6	141.39	8.841
18,715.0	9,744.5	17,556.9	8,959.2	73.6	67.9	-50.89	-8,603.9	-214.1	1,250.0	1,108.4	141.61	8.827
18,800.0	9,744.5	17,641.9	8,959.3	74.2	68.5	-50.89	-8,688.9	-214.8	1,249.9	1,107.0	142.88	8.748
18,810.0	9,744.6	17,651.9	8,959.4	74.2	68.6	-50.89	-8,698.9	-214.9	1,249.9	1,106.9	143.03	8.739
18,900.0	9,744.6	17,741.9	8,959.5	74.9	69.2	-50.90	-8,788.9	-215.7	1,249.9	1,105.5	144.38	8.657
18,905.0	9,744.6	17,746.9	8,959.5	74.9	69.3	-50.90	-8,793.9	-215.7	1,249.9	1,105.4	144.45	8.652
19,000.0	9,744.7	17,841.9	8,959.6	75.6	70.0	-50.90	-8,888.9	-216.6	1,249.8	1,103.9	145.87	8.568
19,095.0	9,744.7	17,936.9	8,959.8	76.2	70.7	-50.90	-8,983.9	-217.4	1,249.8	1,102.5	147.30	8.485
19,100.0	9,744.7	17,941.9	8,959.8	76.3	70.7	-50.90	-8,988.9	-217.5	1,249.7	1,102.4	147.37	8.480
19,190.0	9,744.8	18,031.9	8,959.9	76.9	71.4	-50.91	-9,078.9	-218.3	1,249.7	1,101.0	148.72	8.403
19,200.0	9,744.8	18,041.9	8,959.9	77.0	71.5	-50.91	-9,088.9	-218.4	1,249.7	1,100.8	148.87	8.395
19,285.0	9,744.8	18,126.9	8,960.1	77.6	72.1	-50.91	-9,173.9	-219.1	1,249.6	1,099.5	150.14	8.323
19,300.0	9,744.8	18,141.9	8,960.1	77.7	72.2	-50.91	-9,188.9	-219.2	1,249.6	1,099.3	150.37	8.310
19,380.0	9,744.9	18,221.9	8,960.2	78.3	72.8	-50.91	-9,268.9	-220.0	1,249.6	1,098.0	151.57	8.244
19,400.0	9,744.9	18,241.9	8,960.2	78.4	73.0	-50.91	-9,288.9	-220.1	1,249.6	1,097.7	151.87	8.228
19,475.0	9,744.9	18,316.9	8,960.3	78.9	73.6	-50.92	-9,363.9	-220.8	1,249.5	1,096.5	152.99	8.167
19,500.0	9,744.9	18,341.9	8,960.4	79.1	73.7	-50.92	-9,388.9	-221.0	1,249.5	1,096.1	153.37	8.147
19,570.0	9,745.0	18,411.9	8,960.5	79.6	74.3	-50.92	-9,458.9	-221.6	1,249.5	1,095.0	154.42	8.091
19,600.0	9,745.0	18,441.9	8,960.5	79.8	74.5	-50.92	-9,488.9	-221.9	1,249.4	1,094.6	154.87	8.068
19,665.0	9,745.0	18,506.9	8,960.6	80.3	75.0	-50.92	-9,553.9	-222.5	1,249.4	1,093.6	155.85	8.017

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 #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #806H	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 #708H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8403-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	
19,700.0	9,745.0	18,541.9	8,960.7	80.5	75.2	-50.92	-9,588.9	-222.8	1,249.4	1,093.0	156.37	7.990		
19,760.0	9,745.1	18,601.9	8,960.8	81.0	75.7	-50.93	-9,648.9	-223.3	1,249.4	1,092.1	157.28	7.944		
19,800.0	9,745.1	18,641.9	8,960.8	81.3	76.0	-50.93	-9,688.9	-223.7	1,249.3	1,091.5	157.88	7.913		
19,855.0	9,745.1	18,696.9	8,960.9	81.6	76.4	-50.93	-9,743.9	-224.2	1,249.3	1,090.6	158.70	7.872		
19,900.0	9,745.1	18,741.9	8,961.0	82.0	76.7	-50.93	-9,788.9	-224.6	1,249.3	1,089.9	159.38	7.838		
19,950.0	9,745.2	18,791.9	8,961.0	82.3	77.1	-50.93	-9,838.9	-225.0	1,249.2	1,089.1	160.13	7.801		
20,000.0	9,745.2	18,841.9	8,961.1	82.7	77.5	-50.93	-9,888.9	-225.5	1,249.2	1,088.3	160.89	7.765		
20,045.0	9,745.2	18,886.9	8,961.2	83.0	77.8	-50.94	-9,933.9	-225.9	1,249.2	1,087.6	161.56	7.732		
20,100.0	9,745.2	18,941.9	8,961.3	83.4	78.2	-50.94	-9,988.9	-226.3	1,249.1	1,086.8	162.39	7.692		
20,140.0	9,745.3	18,981.9	8,961.3	83.7	78.5	-50.94	-10,028.9	-226.7	1,249.1	1,086.1	162.99	7.664		
20,200.0	9,745.3	19,041.9	8,961.4	84.1	79.0	-50.94	-10,088.9	-227.2	1,249.1	1,085.2	163.90	7.621		
20,235.0	9,745.3	19,076.9	8,961.5	84.4	79.3	-50.94	-10,123.9	-227.5	1,249.1	1,084.6	164.42	7.597		
20,300.0	9,745.3	19,141.9	8,961.6	84.8	79.7	-50.94	-10,188.9	-228.1	1,249.0	1,083.6	165.40	7.551		
20,330.0	9,745.4	19,171.9	8,961.6	85.1	80.0	-50.95	-10,218.9	-228.4	1,249.0	1,083.2	165.86	7.531		
20,400.0	9,745.4	19,241.9	8,961.7	85.6	80.5	-50.95	-10,288.9	-229.0	1,249.0	1,082.1	166.91	7.483		
20,425.0	9,745.4	19,266.9	8,961.7	85.7	80.7	-50.95	-10,313.9	-229.2	1,249.0	1,081.7	167.29	7.466		
20,500.0	9,745.4	19,341.9	8,961.9	86.3	81.3	-50.95	-10,388.9	-229.9	1,248.9	1,080.5	168.42	7.415		
20,520.0	9,745.5	19,361.9	8,961.9	86.4	81.4	-50.95	-10,408.9	-230.1	1,248.9	1,080.2	168.72	7.402		
20,600.0	9,745.5	19,441.9	8,962.0	87.0	82.0	-50.95	-10,488.9	-230.8	1,248.9	1,078.9	169.93	7.349		
20,615.0	9,745.5	19,456.9	8,962.0	87.1	82.1	-50.96	-10,503.9	-230.9	1,248.8	1,078.7	170.16	7.339		
20,700.0	9,745.5	19,541.9	8,962.2	87.7	82.8	-50.96	-10,588.9	-231.7	1,248.8	1,077.4	171.44	7.284		
20,710.0	9,745.6	19,551.9	8,962.2	87.8	82.8	-50.96	-10,598.9	-231.8	1,248.8	1,077.2	171.59	7.278		
20,800.0	9,745.6	19,641.9	8,962.3	88.4	83.5	-50.96	-10,688.9	-232.6	1,248.7	1,075.8	172.95	7.220		
20,805.0	9,745.6	19,646.9	8,962.3	88.5	83.5	-50.96	-10,693.9	-232.6	1,248.7	1,075.7	173.03	7.217		
20,900.0	9,745.7	19,741.9	8,962.4	89.2	84.3	-50.96	-10,788.9	-233.4	1,248.7	1,074.2	174.46	7.157		
20,995.0	9,745.7	19,836.9	8,962.6	89.8	85.0	-50.97	-10,883.8	-234.3	1,248.6	1,072.7	175.90	7.099		
21,000.0	9,745.7	19,841.9	8,962.6	89.9	85.0	-50.97	-10,888.8	-234.3	1,248.6	1,072.6	175.97	7.095		
21,090.0	9,745.8	19,931.9	8,962.7	90.5	85.7	-50.97	-10,978.8	-235.1	1,248.6	1,071.2	177.33	7.041		
21,100.0	9,745.8	19,941.9	8,962.7	90.6	85.8	-50.97	-10,988.8	-235.2	1,248.6	1,071.1	177.49	7.035		
21,185.0	9,745.8	20,026.9	8,962.9	91.2	86.4	-50.97	-11,073.8	-236.0	1,248.5	1,069.7	178.77	6.984		
21,200.0	9,745.8	20,041.9	8,962.9	91.3	86.5	-50.98	-11,088.8	-236.1	1,248.5	1,069.5	179.00	6.975		
21,280.0	9,745.9	20,121.9	8,963.0	91.9	87.1	-50.98	-11,168.8	-236.8	1,248.4	1,068.2	180.21	6.928		
21,300.0	9,745.9	20,141.9	8,963.0	92.1	87.3	-50.98	-11,188.8	-237.0	1,248.4	1,067.9	180.51	6.916		
21,375.0	9,745.9	20,216.9	8,963.2	92.6	87.8	-50.98	-11,263.8	-237.7	1,248.4	1,066.7	181.65	6.873		
21,400.0	9,745.9	20,241.9	8,963.2	92.8	88.0	-50.98	-11,288.8	-237.9	1,248.4	1,066.3	182.03	6.858		
21,470.0	9,746.0	20,311.9	8,963.3	93.3	88.6	-50.98	-11,358.8	-238.5	1,248.3	1,065.2	183.09	6.818		
21,500.0	9,746.0	20,341.9	8,963.3	93.5	88.8	-50.99	-11,388.8	-238.8	1,248.3	1,064.8	183.54	6.801		
21,565.0	9,746.0	20,406.9	8,963.4	94.0	89.3	-50.99	-11,453.8	-239.3	1,248.3	1,063.8	184.52	6.765		
21,600.0	9,746.0	20,441.9	8,963.5	94.2	89.5	-50.99	-11,488.8	-239.7	1,248.3	1,063.2	185.05	6.745		
21,660.0	9,746.1	20,501.9	8,963.6	94.7	90.0	-50.99	-11,548.8	-240.2	1,248.2	1,062.3	185.96	6.712		
21,700.0	9,746.1	20,541.9	8,963.6	95.0	90.3	-50.99	-11,588.8	-240.5	1,248.2	1,061.6	186.57	6.690		
21,755.0	9,746.1	20,596.9	8,963.7	95.4	90.7	-50.99	-11,643.8	-241.0	1,248.2	1,060.8	187.40	6.660		
21,800.0	9,746.1	20,641.9	8,963.8	95.7	91.0	-51.00	-11,688.8	-241.4	1,248.1	1,060.0	188.09	6.636		
21,850.0	9,746.2	20,691.9	8,963.9	96.1	91.4	-51.00	-11,738.8	-241.9	1,248.1	1,059.3	188.84	6.609		
21,900.0	9,746.2	20,741.9	8,963.9	96.4	91.8	-51.00	-11,788.8	-242.3	1,248.1	1,058.5	189.60	6.583		
21,945.0	9,746.2	20,786.9	8,964.0	96.8	92.1	-51.00	-11,833.8	-242.7	1,248.0	1,057.8	190.28	6.559		
22,000.0	9,746.2	20,841.9	8,964.1	97.2	92.6	-51.00	-11,888.8	-243.2	1,248.0	1,056.9	191.12	6.530		
22,040.0	9,746.3	20,881.9	8,964.1	97.4	92.9	-51.00	-11,928.8	-243.6	1,248.0	1,056.3	191.73	6.509		
22,100.0	9,746.3	20,941.9	8,964.2	97.9	93.3	-51.01	-11,988.8	-244.1	1,248.0	1,055.3	192.64	6.478		
22,135.0	9,746.3	20,976.9	8,964.3	98.1	93.6	-51.01	-12,023.8	-244.4	1,247.9	1,054.8	193.17	6.460		
22,200.0	9,746.3	21,041.9	8,964.4	98.6	94.1	-51.01	-12,088.8	-245.0	1,247.9	1,053.7	194.15	6.427		

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 #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #806H	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 #708H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8403-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)		
22,230.0	9,746.4	21,071.9	8,964.4	98.8	94.3	-51.01	-12,118.8	-245.3	1,247.9	1,053.3	194.61	6.412
22,300.0	9,746.4	21,141.9	8,964.5	99.3	94.8	-51.01	-12,188.8	-245.9	1,247.8	1,052.2	195.67	6.377
22,325.0	9,746.4	21,166.9	8,964.6	99.5	95.0	-51.01	-12,213.8	-246.1	1,247.8	1,051.8	196.05	6.365
22,400.0	9,746.4	21,241.9	8,964.7	100.1	95.6	-51.02	-12,288.8	-246.8	1,247.8	1,050.6	197.19	6.328
22,420.0	9,746.5	21,261.9	8,964.7	100.2	95.7	-51.02	-12,308.8	-246.9	1,247.8	1,050.3	197.49	6.318
22,500.0	9,746.5	21,341.9	8,964.8	100.8	96.3	-51.02	-12,388.8	-247.6	1,247.7	1,049.0	198.71	6.279
22,515.0	9,746.5	21,356.9	8,964.8	100.9	96.4	-51.02	-12,403.8	-247.8	1,247.7	1,048.8	198.94	6.272
22,600.0	9,746.6	21,441.9	8,965.0	101.5	97.1	-51.02	-12,488.8	-248.5	1,247.7	1,047.4	200.23	6.231
22,610.0	9,746.6	21,451.9	8,965.0	101.6	97.2	-51.02	-12,498.8	-248.6	1,247.7	1,047.3	200.38	6.226
22,700.0	9,746.6	21,541.9	8,965.1	102.3	97.8	-51.03	-12,588.8	-249.4	1,247.6	1,045.8	201.75	6.184
22,705.0	9,746.6	21,546.9	8,965.1	102.3	97.9	-51.03	-12,593.8	-249.5	1,247.6	1,045.8	201.83	6.182
22,800.0	9,746.7	21,641.9	8,965.3	103.0	98.6	-51.03	-12,688.8	-250.3	1,247.5	1,044.3	203.27	6.137
22,895.0	9,746.7	21,736.9	8,965.4	103.7	99.3	-51.03	-12,783.8	-251.2	1,247.5	1,042.8	204.71	6.094
22,900.0	9,746.7	21,741.9	8,965.4	103.7	99.4	-51.03	-12,788.8	-251.2	1,247.5	1,042.7	204.79	6.092
22,990.0	9,746.8	21,831.9	8,965.5	104.4	100.0	-51.04	-12,878.8	-252.0	1,247.4	1,041.3	206.16	6.051
23,000.0	9,746.8	21,841.9	8,965.6	104.5	100.1	-51.04	-12,888.8	-252.1	1,247.4	1,041.1	206.31	6.046
23,085.0	9,746.8	21,926.9	8,965.7	105.1	100.8	-51.04	-12,973.8	-252.8	1,247.4	1,039.8	207.60	6.008
23,100.0	9,746.8	21,941.9	8,965.7	105.2	100.9	-51.04	-12,988.8	-253.0	1,247.4	1,039.5	207.83	6.002
23,180.0	9,746.9	22,021.9	8,965.8	105.8	101.5	-51.04	-13,068.8	-253.7	1,247.3	1,038.3	209.05	5.967
23,200.0	9,746.9	22,041.9	8,965.9	106.0	101.6	-51.04	-13,088.8	-253.9	1,247.3	1,037.9	209.35	5.958
23,275.0	9,746.9	22,116.9	8,966.0	106.5	102.2	-51.05	-13,163.8	-254.5	1,247.3	1,036.8	210.50	5.925
23,300.0	9,746.9	22,141.9	8,966.0	106.7	102.4	-51.05	-13,188.8	-254.7	1,247.2	1,036.4	210.88	5.915
23,370.0	9,747.0	22,211.9	8,966.1	107.2	102.9	-51.05	-13,258.8	-255.4	1,247.2	1,035.3	211.94	5.885
23,400.0	9,747.0	22,241.9	8,966.1	107.4	103.1	-51.05	-13,288.8	-255.6	1,247.2	1,034.8	212.40	5.872
23,465.0	9,747.0	22,306.9	8,966.2	107.9	103.6	-51.05	-13,353.7	-256.2	1,247.1	1,033.8	213.39	5.844
23,500.0	9,747.0	22,341.9	8,966.3	108.2	103.9	-51.05	-13,388.7	-256.5	1,247.1	1,033.2	213.92	5.830
23,560.0	9,747.1	22,401.9	8,966.4	108.6	104.4	-51.06	-13,448.7	-257.1	1,247.1	1,032.3	214.83	5.805
23,600.0	9,747.1	22,441.9	8,966.4	108.9	104.7	-51.06	-13,488.7	-257.4	1,247.1	1,031.6	215.44	5.788
23,655.0	9,747.1	22,496.9	8,966.5	109.3	105.1	-51.06	-13,543.7	-257.9	1,247.0	1,030.7	216.28	5.766
23,700.0	9,747.1	22,541.9	8,966.6	109.6	105.4	-51.06	-13,588.7	-258.3	1,247.0	1,030.0	216.97	5.747
23,750.0	9,747.2	22,591.9	8,966.7	110.0	105.8	-51.06	-13,638.7	-258.7	1,247.0	1,029.2	217.73	5.727
23,800.0	9,747.2	22,641.9	8,966.7	110.4	106.2	-51.06	-13,688.7	-259.2	1,246.9	1,028.5	218.49	5.707
23,845.0	9,747.2	22,686.9	8,966.8	110.7	106.5	-51.07	-13,733.7	-259.6	1,246.9	1,027.7	219.18	5.689
23,900.0	9,747.2	22,741.9	8,966.9	111.1	106.9	-51.07	-13,788.7	-260.1	1,246.9	1,026.9	220.01	5.667
23,940.0	9,747.3	22,781.9	8,966.9	111.4	107.2	-51.07	-13,828.7	-260.4	1,246.9	1,026.2	220.62	5.652
24,000.0	9,747.3	22,841.9	8,967.0	111.9	107.7	-51.07	-13,888.7	-261.0	1,246.8	1,025.3	221.54	5.628
24,035.0	9,747.3	22,876.9	8,967.1	112.1	108.0	-51.07	-13,923.7	-261.3	1,246.8	1,024.7	222.07	5.614
24,100.0	9,747.3	22,941.9	8,967.2	112.6	108.4	-51.07	-13,988.7	-261.9	1,246.8	1,023.7	223.06	5.589
24,130.0	9,747.4	22,971.9	8,967.2	112.8	108.7	-51.07	-14,018.7	-262.1	1,246.7	1,023.2	223.52	5.578
24,200.0	9,747.4	23,041.9	8,967.3	113.3	109.2	-51.08	-14,088.7	-262.7	1,246.7	1,022.1	224.59	5.551
24,225.0	9,747.4	23,066.9	8,967.4	113.5	109.4	-51.08	-14,113.7	-263.0	1,246.7	1,021.7	224.97	5.542
24,300.0	9,747.5	23,141.9	8,967.5	114.1	110.0	-51.08	-14,188.7	-263.6	1,246.6	1,020.5	226.11	5.513
24,320.0	9,747.5	23,161.9	8,967.5	114.2	110.1	-51.08	-14,208.7	-263.8	1,246.6	1,020.2	226.42	5.506
24,400.0	9,747.5	23,241.9	8,967.6	114.8	110.7	-51.08	-14,288.7	-264.5	1,246.6	1,018.9	227.64	5.476
24,415.0	9,747.5	23,256.9	8,967.6	114.9	110.8	-51.08	-14,303.7	-264.6	1,246.6	1,018.7	227.87	5.471
24,500.0	9,747.6	23,341.9	8,967.8	115.5	111.5	-51.09	-14,388.7	-265.4	1,246.5	1,017.4	229.16	5.439
24,510.0	9,747.6	23,351.9	8,967.8	115.6	111.6	-51.09	-14,398.7	-265.5	1,246.5	1,017.2	229.32	5.436
24,600.0	9,747.6	23,441.9	8,967.9	116.3	112.2	-51.09	-14,488.7	-266.3	1,246.5	1,015.8	230.69	5.403
24,605.0	9,747.6	23,446.9	8,967.9	116.3	112.3	-51.09	-14,493.7	-266.3	1,246.5	1,015.7	230.77	5.401
24,700.0	9,747.7	23,541.9	8,968.1	117.0	113.0	-51.09	-14,588.7	-267.2	1,246.4	1,014.2	232.22	5.367
24,795.0	9,747.7	23,636.9	8,968.2	117.7	113.7	-51.10	-14,683.7	-268.0	1,246.3	1,012.7	233.67	5.334

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 #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #806H	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 #708H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8403-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)			
24,800.0	9,747.7	23,641.9	8,968.2	117.8	113.7	-51.10	-14,688.7	-268.1	1,246.3	1,012.6	233.74	5.332	
24,890.0	9,747.8	23,731.9	8,968.4	118.4	114.4	-51.10	-14,778.7	-268.9	1,246.3	1,011.2	235.12	5.301	
24,900.0	9,747.8	23,741.9	8,968.4	118.5	114.5	-51.10	-14,788.7	-269.0	1,246.3	1,011.0	235.27	5.297	
24,985.0	9,747.8	23,826.9	8,968.5	119.1	115.2	-51.10	-14,873.7	-269.7	1,246.2	1,009.7	236.57	5.268	
25,000.0	9,747.8	23,841.9	8,968.5	119.3	115.3	-51.10	-14,888.7	-269.8	1,246.2	1,009.4	236.80	5.263	
25,080.0	9,747.9	23,921.9	8,968.6	119.8	115.9	-51.11	-14,968.7	-270.5	1,246.2	1,008.2	238.02	5.236	
25,100.0	9,747.9	23,941.9	8,968.7	120.0	116.0	-51.11	-14,988.7	-270.7	1,246.2	1,007.8	238.32	5.229	
25,175.0	9,747.9	24,016.9	8,968.8	120.6	116.6	-51.11	-15,063.7	-271.4	1,246.1	1,006.7	239.47	5.204	
25,200.7	9,747.9	24,042.6	8,968.8	120.7	116.8	-51.11	-15,089.4	-271.6	1,246.1	1,006.2	239.86	5.195	
25,270.0	9,748.0	24,111.9	8,968.9	121.3	117.3	-51.11	-15,158.7	-272.2	1,246.1	1,005.1	240.92	5.172	
25,300.0	9,748.0	24,141.9	8,969.0	121.5	117.5	-51.11	-15,188.7	-272.5	1,246.0	1,004.7	241.38	5.162	
25,325.2	9,748.0	24,167.1	8,969.0	121.7	117.7	-51.12	-15,213.9	-272.7	1,246.0	1,004.3	241.76	5.154	
25,330.7	9,748.0	24,170.7	8,969.0	121.7	117.8	-51.12	-15,217.5	-272.8	1,246.0	1,004.2	241.82	5.153 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 #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #806H	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 #709H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8448-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Reference	Offset	Highside	Offset Wellbore Centre	Distance	Rule Assigned:	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 Factor		
0.0	0.0	3.9	3.9	3.0	3.0	168.51	-149.5	30.4	152.6				
95.0	95.0	98.9	98.9	3.0	3.0	168.51	-149.5	30.4	152.6	146.5	6.04	25.267	
100.0	100.0	103.9	103.9	3.0	3.0	168.51	-149.5	30.4	152.6	146.5	6.04	25.241	
190.0	190.0	193.9	193.9	3.1	3.1	168.51	-149.5	30.4	152.6	146.3	6.26	24.352	
200.0	200.0	203.9	203.9	3.1	3.2	168.51	-149.5	30.4	152.6	146.3	6.30	24.226	
285.0	285.0	288.9	288.9	3.3	3.3	168.51	-149.5	30.4	152.6	146.1	6.51	23.449	
300.0	300.0	303.9	303.9	3.3	3.3	168.51	-149.5	30.4	152.6	146.0	6.55	23.302	
380.0	380.0	383.9	383.9	3.4	3.4	168.51	-149.5	30.4	152.6	145.8	6.74	22.627	
400.0	400.0	403.9	403.9	3.4	3.4	168.51	-149.5	30.4	152.6	145.8	6.79	22.454	
475.0	475.0	478.9	478.9	3.5	3.5	168.51	-149.5	30.4	152.6	145.6	6.98	21.868	
500.0	500.0	503.9	503.9	3.5	3.5	168.51	-149.5	30.4	152.6	145.5	7.04	21.671	
570.0	570.0	573.9	573.9	3.6	3.6	168.51	-149.5	30.4	152.6	145.4	7.21	21.163	
600.0	600.0	603.9	603.9	3.6	3.6	168.51	-149.5	30.4	152.6	145.3	7.28	20.945	
665.0	665.0	668.9	668.9	3.7	3.7	168.51	-149.5	30.4	152.6	145.1	7.44	20.506	
700.0	700.0	703.9	703.9	3.8	3.8	168.51	-149.5	30.4	152.6	145.0	7.53	20.271	
760.0	760.0	763.9	763.9	3.8	3.8	168.51	-149.5	30.4	152.6	144.9	7.67	19.892	
800.0	800.0	803.9	803.9	3.9	3.9	168.51	-149.5	30.4	152.6	144.8	7.77	19.642	
855.0	855.0	858.9	858.9	4.0	4.0	168.51	-149.5	30.4	152.6	144.7	7.90	19.317	
900.0	900.0	903.9	903.9	4.0	4.0	168.51	-149.5	30.4	152.6	144.6	8.01	19.054	
950.0	950.0	953.9	953.9	4.1	4.1	168.51	-149.5	30.4	152.6	144.4	8.12	18.777	
1,000.0	1,000.0	1,003.9	1,003.9	4.1	4.1	168.51	-149.5	30.4	152.6	144.3	8.25	18.503	
1,045.0	1,045.0	1,048.9	1,048.9	4.2	4.2	168.51	-149.5	30.4	152.6	144.2	8.35	18.268	
1,100.0	1,100.0	1,103.9	1,103.9	4.2	4.2	168.51	-149.5	30.4	152.6	144.1	8.48	17.985	
1,140.0	1,140.0	1,143.9	1,143.9	4.3	4.3	168.51	-149.5	30.4	152.6	144.0	8.58	17.788	
1,200.0	1,200.0	1,203.9	1,203.9	4.4	4.4	168.51	-149.5	30.4	152.6	143.8	8.72	17.497	
1,235.0	1,235.0	1,238.9	1,238.9	4.4	4.4	168.51	-149.5	30.4	152.6	143.8	8.80	17.334	
1,300.0	1,300.0	1,303.9	1,303.9	4.5	4.5	168.51	-149.5	30.4	152.6	143.6	8.95	17.037	
1,330.0	1,330.0	1,333.9	1,333.9	4.5	4.5	168.51	-149.5	30.4	152.6	143.5	9.02	16.905	
1,400.0	1,400.0	1,403.9	1,403.9	4.6	4.6	168.51	-149.5	30.4	152.6	143.4	9.19	16.601	
1,425.0	1,425.0	1,428.9	1,428.9	4.6	4.6	168.51	-149.5	30.4	152.6	143.3	9.25	16.497	
1,500.0	1,500.0	1,504.0	1,504.0	4.7	4.7	168.51	-149.5	30.4	152.6	143.1	9.42	16.188	
1,520.0	1,520.0	1,524.8	1,524.8	4.7	4.8	-125.23	-149.4	30.3	152.5	143.1	9.47	16.100	
1,600.0	1,600.0	1,607.6	1,607.6	4.8	4.9	-125.22	-148.5	28.6	152.3	142.6	9.70	15.695	
1,615.0	1,615.0	1,623.2	1,623.1	4.9	4.9	-125.23	-148.2	28.1	152.2	142.5	9.76	15.595	
1,700.0	1,699.8	1,711.2	1,711.0	5.0	5.1	-125.26	-145.7	23.6	151.7	141.6	10.10	15.026	
1,710.0	1,709.8	1,721.6	1,721.3	5.1	5.1	-125.26	-145.3	22.9	151.6	141.5	10.13	14.959	
1,800.0	1,799.5	1,814.8	1,814.1	5.3	5.4	-125.34	-141.1	15.3	150.7	140.2	10.50	14.363	
1,805.0	1,804.4	1,819.9	1,819.3	5.3	5.4	-125.34	-140.8	14.8	150.7	140.2	10.52	14.330	
1,900.0	1,898.7	1,918.3	1,916.8	5.6	5.7	-125.46	-134.6	3.8	149.5	138.5	10.91	13.700	
1,995.0	1,992.5	2,016.6	2,013.8	5.9	6.0	-125.64	-126.9	-10.2	147.9	136.6	11.32	13.067	
2,000.0	1,997.5	2,021.8	2,018.9	5.9	6.0	-125.65	-126.4	-11.0	147.8	136.5	11.34	13.033	
2,090.0	2,085.8	2,114.9	2,110.2	6.2	6.3	-125.85	-117.5	-27.0	146.1	134.3	11.76	12.427	
2,100.0	2,095.6	2,125.3	2,120.3	6.3	6.4	-125.88	-116.4	-28.9	145.9	134.1	11.80	12.360	
2,185.0	2,178.5	2,212.8	2,205.4	6.6	6.7	-126.13	-106.5	-46.6	144.0	131.8	12.22	11.785	
2,200.0	2,193.0	2,227.7	2,220.0	6.6	6.7	-126.21	-104.7	-49.8	143.7	131.4	12.29	11.690	
2,280.0	2,270.7	2,307.7	2,297.6	6.9	7.0	-126.67	-95.3	-66.7	142.3	129.6	12.68	11.216	
2,300.0	2,290.1	2,327.7	2,317.0	6.9	7.0	-126.79	-93.0	-70.9	141.9	129.1	12.79	11.099	
2,375.0	2,362.9	2,402.7	2,389.7	7.2	7.3	-127.23	-84.1	-86.7	140.6	127.4	13.18	10.668	
2,400.0	2,387.1	2,427.7	2,414.0	7.3	7.4	-127.38	-81.2	-92.0	140.1	126.8	13.31	10.526	
2,470.0	2,455.0	2,497.7	2,481.9	7.5	7.6	-127.81	-72.9	-106.8	138.9	125.2	13.70	10.138	
2,500.0	2,484.1	2,527.7	2,511.0	7.6	7.7	-127.99	-69.4	-113.1	138.4	124.5	13.87	9.976	

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 #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #806H	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 #709H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8448-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
2,565.0	2,547.2	2,592.7	2,574.0	7.8	7.9	-128.39	-61.7	-126.9	137.3	123.0	14.25	9.630	
2,600.0	2,581.2	2,627.6	2,608.0	8.0	8.1	-128.61	-57.6	-134.2	136.7	122.2	14.46	9.449	
2,660.0	2,639.4	2,687.6	2,666.2	8.2	8.3	-129.00	-50.5	-146.9	135.6	120.8	14.83	9.145	
2,700.0	2,678.2	2,727.6	2,705.0	8.3	8.5	-129.25	-45.8	-155.4	134.9	119.9	15.08	8.948	
2,755.0	2,731.6	2,782.6	2,758.3	8.5	8.7	-129.61	-39.3	-167.0	134.0	118.6	15.43	8.683	
2,800.0	2,775.2	2,827.6	2,802.0	8.7	8.8	-129.91	-34.0	-176.5	133.2	117.5	15.73	8.472	
2,850.0	2,823.7	2,877.6	2,850.5	8.9	9.0	-130.25	-28.1	-187.0	132.4	116.3	16.06	8.244	
2,900.0	2,872.3	2,927.6	2,899.0	9.1	9.2	-130.58	-22.2	-197.6	131.6	115.2	16.40	8.022	
2,945.0	2,915.9	2,972.6	2,942.7	9.3	9.4	-130.89	-16.9	-207.1	130.8	114.1	16.71	7.828	
3,000.0	2,969.3	3,027.5	2,996.0	9.5	9.7	-131.27	-10.4	-218.7	129.9	112.8	17.10	7.598	
3,040.0	3,008.1	3,067.5	3,034.8	9.7	9.8	-131.56	-5.7	-227.2	129.2	111.9	17.38	7.435	
3,100.0	3,066.3	3,127.5	3,093.0	9.9	10.1	-131.98	1.4	-239.8	128.3	110.4	17.82	7.198	
3,135.0	3,100.3	3,162.5	3,127.0	10.1	10.2	-132.24	5.5	-247.2	127.7	109.6	18.08	7.063	
3,200.0	3,163.4	3,227.5	3,190.0	10.4	10.5	-132.71	13.2	-261.0	126.6	108.1	18.56	6.822	
3,230.0	3,192.5	3,257.5	3,219.1	10.5	10.6	-132.93	16.7	-267.3	126.2	107.4	18.79	6.713	
3,300.0	3,260.4	3,327.5	3,287.0	10.8	10.9	-133.45	25.0	-282.1	125.0	105.7	19.33	6.468	
3,325.0	3,284.6	3,352.5	3,311.3	10.9	11.0	-133.64	27.9	-287.4	124.6	105.1	19.53	6.382	
3,400.0	3,357.4	3,427.4	3,384.0	11.2	11.3	-134.22	36.7	-303.2	123.5	103.3	20.12	6.135	
3,420.0	3,376.8	3,447.4	3,403.4	11.3	11.4	-134.37	39.1	-307.4	123.1	102.9	20.28	6.071	
3,500.0	3,454.4	3,527.4	3,481.0	11.7	11.8	-135.00	48.5	-324.3	121.9	101.0	20.93	5.823	
3,515.0	3,469.0	3,542.4	3,495.6	11.7	11.8	-135.12	50.3	-327.5	121.7	100.6	21.06	5.777	
3,600.0	3,551.5	3,627.4	3,578.0	12.1	12.2	-135.81	60.3	-345.5	120.4	98.6	21.77	5.529	
3,610.0	3,561.2	3,637.4	3,587.7	12.1	12.3	-135.89	61.5	-347.6	120.2	98.4	21.85	5.501	
3,700.0	3,648.5	3,727.4	3,675.0	12.5	12.7	-136.63	72.1	-366.6	118.9	96.2	22.62	5.254	
3,705.0	3,653.4	3,732.4	3,679.9	12.6	12.7	-136.67	72.7	-367.6	118.8	96.1	22.67	5.240	
3,800.0	3,745.5	3,827.3	3,772.0	13.0	13.1	-137.48	83.9	-387.7	117.4	93.9	23.50	4.995	
3,895.0	3,837.7	3,922.3	3,864.2	13.4	13.5	-138.30	95.1	-407.8	116.0	91.6	24.35	4.764	
3,900.0	3,842.6	3,927.3	3,869.0	13.4	13.6	-138.35	95.7	-408.8	115.9	91.5	24.39	4.752	
3,990.0	3,929.9	4,017.3	3,966.3	13.8	14.0	-139.15	106.3	-427.8	114.6	89.4	25.21	4.546	
4,000.0	3,939.6	4,027.3	3,966.0	13.9	14.0	-139.24	107.5	-429.9	114.5	89.2	25.31	4.523	
4,085.0	4,022.1	4,112.3	4,048.5	14.3	14.4	-140.01	117.5	-447.9	113.3	87.2	26.10	4.340	
4,100.0	4,036.6	4,127.2	4,063.0	14.3	14.5	-140.15	119.3	-451.1	113.1	86.8	26.24	4.309	
4,180.0	4,114.2	4,207.2	4,140.6	14.7	14.8	-140.89	128.7	-468.0	112.0	85.0	27.00	4.147	
4,200.0	4,133.6	4,227.2	4,160.0	14.8	14.9	-141.08	131.1	-472.2	111.7	84.5	27.19	4.107	
4,275.0	4,206.4	4,302.2	4,232.8	15.1	15.3	-141.80	139.9	-488.0	110.7	82.8	27.92	3.964	
4,300.0	4,230.7	4,327.2	4,257.0	15.3	15.4	-142.04	142.9	-493.3	110.4	82.2	28.17	3.918	
4,370.0	4,298.6	4,397.2	4,324.9	15.6	15.7	-142.72	151.1	-508.1	109.4	80.6	28.86	3.792	
4,400.0	4,327.7	4,427.2	4,354.1	15.7	15.9	-143.02	154.7	-514.4	109.0	79.9	29.15	3.740	
4,465.0	4,390.8	4,492.2	4,417.1	16.0	16.2	-143.67	162.3	-528.1	108.2	78.4	29.81	3.630	
4,500.0	4,424.7	4,527.1	4,451.1	16.2	16.3	-144.02	166.5	-535.5	107.8	77.6	30.16	3.573	
4,560.0	4,483.0	4,586.9	4,509.0	16.5	16.6	-144.64	173.5	-548.1	107.0	76.3	30.76	3.479	
4,593.1	4,515.1	4,619.0	4,540.2	16.6	16.7	-145.04	177.1	-554.7	106.9	75.7	31.11	3.434 CC	
4,600.0	4,521.8	4,625.6	4,546.7	16.7	16.8	-145.14	177.9	-556.0	106.9	75.7	31.19	3.426	
4,655.0	4,575.1	4,678.8	4,598.6	16.9	17.0	-146.05	183.5	-566.1	107.4	75.6	31.83	3.376 ES	
4,700.0	4,618.8	4,722.3	4,641.3	17.1	17.2	-146.97	187.8	-573.7	108.6	76.2	32.37	3.355	
4,750.0	4,667.3	4,770.6	4,688.7	17.4	17.5	-148.14	192.1	-581.5	110.6	77.7	32.99	3.354 SF	
4,800.0	4,715.8	4,818.7	4,736.1	17.6	17.7	-149.45	196.0	-588.5	113.5	79.9	33.61	3.376	
4,845.0	4,759.5	4,862.0	4,778.9	17.8	17.9	-150.71	199.3	-594.3	116.8	82.6	34.18	3.416	
4,900.0	4,812.9	4,914.6	4,831.0	18.1	18.1	-152.31	202.7	-600.5	121.7	86.8	34.86	3.490	
4,940.0	4,851.7	4,952.8	4,868.9	18.2	18.3	-153.50	205.0	-604.5	125.9	90.6	35.34	3.562	
5,000.0	4,909.9	5,009.8	4,925.6	18.5	18.5	-155.26	207.9	-609.7	133.3	97.2	36.04	3.698	

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 #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #806H	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 #709H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8448-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
5,035.0	4,943.8	5,042.8	4,958.5	18.7	18.6	-156.27	209.3	-612.2	138.1	101.7	36.42	3.793		
5,100.0	5,006.9	5,103.9	5,019.5	19.0	18.9	-158.08	211.4	-616.1	148.3	111.2	37.10	3.998		
5,130.0	5,036.0	5,132.0	5,047.5	19.1	19.0	-158.88	212.2	-617.4	153.5	116.1	37.38	4.106		
5,200.0	5,103.9	5,197.0	5,112.5	19.5	19.2	-160.63	213.4	-619.7	166.8	128.8	38.01	4.389		
5,225.0	5,128.2	5,220.1	5,135.5	19.6	19.3	-161.21	213.7	-620.2	171.9	133.8	38.18	4.504		
5,300.0	5,201.0	5,289.4	5,204.9	19.9	19.3	-162.86	214.0	-620.7	188.6	150.0	38.65	4.880		
5,320.0	5,220.4	5,308.8	5,224.3	20.0	19.4	-163.28	214.0	-620.7	193.3	154.5	38.79	4.983		
5,400.0	5,298.0	5,386.5	5,301.9	20.4	19.4	-164.78	214.0	-620.7	211.9	172.6	39.32	5.389		
5,415.0	5,312.6	5,401.0	5,316.5	20.5	19.4	-165.04	214.0	-620.7	215.4	176.0	39.42	5.465		
5,500.0	5,395.0	5,483.5	5,398.9	20.9	19.4	-166.33	214.0	-620.7	235.4	195.4	39.95	5.893		
5,510.0	5,404.7	5,493.2	5,408.6	20.9	19.4	-166.47	214.0	-620.7	237.8	197.7	40.01	5.943		
5,600.0	5,492.1	5,580.5	5,496.0	21.4	19.5	-167.59	214.0	-620.7	259.0	218.5	40.54	6.388		
5,605.0	5,496.9	5,585.4	5,500.8	21.4	19.5	-167.65	214.0	-620.7	260.2	219.6	40.57	6.413		
5,700.0	5,589.1	5,677.6	5,593.0	21.8	19.5	-168.64	214.0	-620.7	282.7	241.6	41.12	6.875		
5,795.0	5,681.3	5,769.7	5,685.2	22.3	19.6	-169.49	214.0	-620.7	305.3	263.6	41.66	7.329		
5,800.0	5,686.1	5,774.6	5,690.0	22.3	19.6	-169.53	214.0	-620.7	306.5	264.8	41.68	7.352		
5,890.0	5,773.5	5,861.9	5,777.4	22.8	19.6	-170.22	214.0	-620.7	327.9	285.8	42.18	7.774		
5,900.0	5,783.2	5,871.6	5,787.1	22.8	19.6	-170.29	214.0	-620.7	330.3	288.1	42.24	7.820		
5,985.0	5,865.6	5,954.1	5,869.5	23.2	19.6	-170.86	214.0	-620.7	350.6	307.9	42.70	8.210		
6,000.0	5,880.2	5,968.6	5,884.1	23.3	19.6	-170.95	214.0	-620.7	354.2	311.4	42.79	8.279		
6,080.0	5,957.8	6,046.3	5,961.7	23.7	19.7	-171.42	214.0	-620.7	373.4	330.1	43.22	8.638		
6,100.0	5,977.2	6,065.7	5,981.1	23.8	19.7	-171.53	214.0	-620.7	378.1	334.8	43.33	8.727		
6,175.0	6,050.0	6,138.4	6,053.9	24.1	19.7	-171.92	214.0	-620.7	396.1	352.4	43.74	9.057		
6,200.0	6,074.2	6,162.7	6,078.1	24.2	19.7	-172.04	214.0	-620.7	402.1	358.2	43.87	9.166		
6,270.0	6,142.2	6,230.6	6,146.1	24.6	19.8	-172.36	214.0	-620.7	418.9	374.6	44.25	9.467		
6,300.0	6,171.3	6,259.7	6,175.2	24.7	19.8	-172.49	214.0	-620.7	426.1	381.7	44.41	9.595		
6,365.0	6,234.3	6,322.8	6,238.2	25.0	19.8	-172.75	214.0	-620.7	441.7	396.9	44.76	9.869		
6,400.0	6,268.3	6,356.8	6,272.2	25.2	19.8	-172.89	214.0	-620.7	450.1	405.1	44.94	10.014		
6,460.0	6,326.5	6,415.0	6,330.4	25.5	19.9	-173.11	214.0	-620.7	464.5	419.2	45.26	10.263		
6,479.0	6,345.0	6,433.4	6,348.9	25.6	19.9	-173.18	214.0	-620.7	469.1	423.7	45.36	10.341		
6,500.0	6,365.3	6,453.8	6,369.2	25.7	19.9	-173.26	214.0	-620.7	474.0	428.6	45.47	10.426		
6,555.0	6,418.9	6,507.4	6,422.8	25.9	19.9	-173.46	214.0	-620.7	486.4	440.6	45.76	10.627		
6,600.0	6,462.9	6,551.4	6,466.8	26.2	19.9	-173.61	214.0	-620.7	495.7	449.7	46.01	10.774		
6,650.0	6,512.0	6,600.5	6,515.9	26.4	19.9	-173.75	214.0	-620.7	505.2	459.0	46.27	10.919		
6,700.0	6,561.2	6,649.7	6,565.1	26.6	20.0	-173.88	214.0	-620.7	513.9	467.4	46.53	11.045		
6,745.0	6,605.7	6,694.1	6,609.6	26.8	20.0	-173.97	214.0	-620.7	521.0	474.3	46.76	11.144		
6,800.0	6,660.1	6,748.6	6,664.0	27.1	20.0	-174.08	214.0	-620.7	528.8	481.7	47.03	11.243		
6,840.0	6,699.8	6,788.3	6,703.7	27.3	20.0	-174.14	214.0	-620.7	533.7	486.5	47.22	11.303		
6,900.0	6,759.5	6,847.9	6,763.4	27.5	20.1	-174.23	214.0	-620.7	540.2	492.7	47.51	11.370		
6,935.0	6,794.3	6,882.8	6,798.2	27.7	20.1	-174.27	214.0	-620.7	543.3	495.7	47.66	11.400		
7,000.0	6,859.1	6,947.6	6,863.0	27.9	20.1	-174.33	214.0	-620.7	548.1	500.2	47.95	11.432		
7,030.0	6,889.1	6,977.5	6,893.0	28.0	20.1	-174.35	214.0	-620.7	549.8	501.8	48.07	11.439		
7,100.0	6,959.0	7,047.5	6,962.9	28.3	20.2	-174.38	214.0	-620.7	552.6	504.3	48.34	11.432		
7,125.0	6,984.0	7,072.5	6,987.9	28.3	20.2	-174.39	214.0	-620.7	553.2	504.8	48.39	11.431		
7,179.0	7,038.0	7,126.5	7,041.9	28.4	20.2	119.35	214.0	-620.7	553.7	505.2	48.50	11.416		
7,200.0	7,059.0	7,147.5	7,062.9	28.4	20.2	119.35	214.0	-620.7	553.7	505.2	48.51	11.413		
7,220.0	7,079.0	7,167.5	7,082.9	28.4	20.2	119.35	214.0	-620.7	553.7	505.1	48.53	11.409		
7,300.0	7,159.0	7,247.5	7,162.9	28.4	20.2	119.35	214.0	-620.7	553.7	505.1	48.59	11.394		
7,315.0	7,174.0	7,262.5	7,177.9	28.4	20.3	119.35	214.0	-620.7	553.7	505.1	48.61	11.391		
7,400.0	7,259.0	7,347.5	7,262.9	28.4	20.3	119.35	214.0	-620.7	553.7	505.0	48.67	11.375		
7,410.0	7,269.0	7,357.5	7,272.9	28.4	20.3	119.35	214.0	-620.7	553.7	505.0	48.68	11.373		

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 #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #806H	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 #709H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8448-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
7,500.0	7,359.0	7,447.5	7,362.9	28.5	20.3	119.35	214.0	-620.7	553.7	504.9	48.75	11.357	
7,505.0	7,364.0	7,452.5	7,367.9	28.5	20.3	119.35	214.0	-620.7	553.7	504.9	48.76	11.356	
7,600.0	7,459.0	7,547.5	7,462.9	28.5	20.4	119.35	214.0	-620.7	553.7	504.8	48.83	11.338	
7,695.0	7,554.0	7,642.5	7,557.9	28.5	20.4	119.35	214.0	-620.7	553.7	504.8	48.91	11.320	
7,700.0	7,559.0	7,647.5	7,562.9	28.5	20.4	119.35	214.0	-620.7	553.7	504.8	48.92	11.319	
7,790.0	7,649.0	7,737.5	7,652.9	28.6	20.5	119.35	214.0	-620.7	553.7	504.7	48.99	11.302	
7,800.0	7,659.0	7,747.5	7,662.9	28.6	20.5	119.35	214.0	-620.7	553.7	504.7	49.00	11.300	
7,885.0	7,744.0	7,832.5	7,747.9	28.6	20.5	119.35	214.0	-620.7	553.7	504.6	49.07	11.284	
7,900.0	7,759.0	7,847.5	7,762.9	28.6	20.5	119.35	214.0	-620.7	553.7	504.6	49.08	11.281	
7,980.0	7,839.0	7,927.5	7,842.9	28.6	20.6	119.35	214.0	-620.7	553.7	504.5	49.15	11.266	
8,000.0	7,859.0	7,947.5	7,862.9	28.6	20.6	119.35	214.0	-620.7	553.7	504.5	49.16	11.262	
8,075.0	7,934.0	8,022.5	7,937.9	28.7	20.6	119.35	214.0	-620.7	553.7	504.5	49.22	11.248	
8,100.0	7,959.0	8,047.5	7,962.9	28.7	20.6	119.35	214.0	-620.7	553.7	504.4	49.24	11.244	
8,170.0	8,029.0	8,117.5	8,032.9	28.7	20.7	119.35	214.0	-620.7	553.7	504.4	49.30	11.230	
8,200.0	8,059.0	8,147.5	8,062.9	28.7	20.7	119.35	214.0	-620.7	553.7	504.4	49.33	11.225	
8,265.0	8,124.0	8,212.5	8,127.9	28.7	20.7	119.35	214.0	-620.7	553.7	504.3	49.38	11.212	
8,300.0	8,159.0	8,247.5	8,162.9	28.7	20.7	119.35	214.0	-620.7	553.7	504.3	49.41	11.206	
8,360.0	8,219.0	8,307.5	8,222.9	28.8	20.8	119.35	214.0	-620.7	553.7	504.2	49.46	11.194	
8,400.0	8,259.0	8,347.5	8,262.9	28.8	20.8	119.35	214.0	-620.7	553.7	504.2	49.49	11.187	
8,455.0	8,314.0	8,402.5	8,317.9	28.8	20.8	119.35	214.0	-620.7	553.7	504.1	49.54	11.176	
8,500.0	8,359.0	8,447.5	8,362.9	28.8	20.8	119.35	214.0	-620.7	553.7	504.1	49.57	11.171	
8,550.0	8,409.0	8,481.6	8,397.0	28.8	20.8	119.44	213.0	-620.7	554.4	505.1	49.34	11.236	
8,600.0	8,459.0	8,515.4	8,430.7	28.8	20.9	119.71	210.0	-620.7	556.6	507.5	49.09	11.338	
8,645.0	8,504.0	8,550.0	8,464.9	28.8	20.9	120.17	204.9	-620.8	559.8	510.9	48.91	11.445	
8,700.0	8,559.0	8,581.4	8,495.7	28.9	20.9	120.74	198.4	-620.8	565.4	516.9	48.46	11.668	
8,740.0	8,599.0	8,600.0	8,513.6	28.9	20.9	121.15	193.9	-620.9	570.7	522.7	48.00	11.888	
8,800.0	8,659.0	8,650.0	8,561.3	28.9	20.9	122.46	178.6	-621.0	580.6	532.8	47.76	12.155	
8,835.0	8,694.0	8,664.9	8,575.2	28.9	20.9	122.91	173.3	-621.1	587.4	540.1	47.30	12.419	
8,900.0	8,759.0	8,700.0	8,607.4	28.9	20.9	124.07	159.3	-621.2	602.5	555.9	46.56	12.940	
8,930.0	8,789.0	8,718.6	8,624.0	28.9	20.9	124.74	151.1	-621.3	610.4	564.2	46.26	13.196	
9,000.0	8,859.0	8,750.0	8,651.6	29.0	21.0	125.94	136.0	-621.4	631.6	586.3	45.28	13.950	
9,025.0	8,884.0	8,767.6	8,666.6	29.0	21.0	126.65	127.0	-621.5	640.0	594.9	45.07	14.201	
9,100.0	8,959.0	8,800.0	8,693.6	29.0	21.0	128.01	109.0	-621.6	668.0	624.0	44.00	15.182	
9,120.0	8,979.0	8,811.8	8,703.2	29.0	21.0	128.52	102.1	-621.7	676.1	632.3	43.79	15.441	
9,200.0	9,059.0	8,850.0	8,733.2	29.0	21.0	130.21	78.4	-621.9	711.4	668.6	42.78	16.629	
9,215.0	9,074.0	8,850.0	8,733.2	29.0	21.0	130.21	78.4	-621.9	718.5	676.1	42.43	16.933	
9,308.0	9,167.0	8,886.4	8,760.2	29.1	21.1	131.88	54.0	-622.1	765.7	724.7	41.03	18.660	
9,310.0	9,169.0	8,887.1	8,760.7	29.1	21.1	-48.51	53.5	-622.1	766.8	725.8	41.01	18.698	
9,350.0	9,209.0	8,900.0	8,769.9	29.1	21.1	-46.12	44.5	-622.2	787.9	747.4	40.49	19.460	
9,400.0	9,258.6	8,919.7	8,783.5	29.1	21.1	-43.32	30.3	-622.3	813.2	773.3	39.94	20.361	
9,405.0	9,263.5	8,921.5	8,784.7	29.1	21.1	-43.06	28.9	-622.3	815.7	775.8	39.89	20.451	
9,450.0	9,307.6	8,950.0	8,803.5	29.1	21.1	-40.55	7.5	-622.5	837.4	797.8	39.60	21.147	
9,500.0	9,355.4	8,950.0	8,803.5	29.1	21.1	-38.95	7.5	-622.5	859.8	821.0	38.83	22.141	
9,550.0	9,401.9	8,976.2	8,819.8	29.1	21.1	-36.94	-13.0	-622.7	880.7	842.1	38.52	22.864	
9,595.0	9,442.2	9,000.0	8,833.8	29.1	21.1	-35.39	-32.3	-622.9	898.0	859.7	38.26	23.471	
9,600.0	9,446.5	9,000.0	8,833.8	29.1	21.1	-35.28	-32.3	-622.9	899.8	861.6	38.20	23.556	
9,650.0	9,489.1	9,015.0	8,842.2	29.2	21.2	-34.01	-44.7	-623.0	917.0	879.2	37.80	24.258	
9,690.0	9,521.3	9,030.7	8,850.6	29.2	21.2	-33.08	-58.0	-623.1	929.4	891.8	37.56	24.741	
9,700.0	9,529.1	9,034.7	8,852.7	29.2	21.2	-32.87	-61.4	-623.1	932.3	894.8	37.51	24.855	
9,750.0	9,566.5	9,050.0	8,860.4	29.2	21.2	-31.97	-74.5	-623.3	945.5	908.3	37.20	25.416	
9,785.0	9,590.8	9,068.4	8,869.3	29.2	21.2	-31.38	-90.6	-623.4	953.5	916.4	37.10	25.699	

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 #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #806H	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 #709H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8448-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
9,800.0	9,600.7	9,074.4	8,872.1	29.2	21.2	-31.17	-95.9	-623.5	956.6	919.6	37.04	25.824	
9,850.0	9,631.7	9,100.0	8,883.3	29.2	21.2	-30.54	-119.0	-623.7	965.6	928.7	36.93	26.149	
9,880.0	9,648.6	9,100.0	8,883.3	29.3	21.2	-30.32	-119.0	-623.7	970.0	933.3	36.71	26.425	
9,900.0	9,659.2	9,100.0	8,883.3	29.3	21.2	-30.18	-119.0	-623.7	972.6	936.0	36.57	26.598	
9,950.0	9,682.9	9,134.5	8,896.8	29.3	21.3	-29.84	-150.7	-623.9	976.9	940.3	36.61	26.684	
9,975.0	9,693.3	9,150.0	8,902.3	29.3	21.3	-29.74	-165.2	-624.1	978.3	941.7	36.62	26.716	
10,000.0	9,702.6	9,150.0	8,902.3	29.3	21.3	-29.70	-165.2	-624.1	979.2	942.7	36.48	26.841	
10,050.0	9,718.3	9,174.7	8,910.1	29.4	21.3	-29.70	-188.6	-624.3	979.1	942.7	36.47	26.849	
10,070.0	9,723.5	9,182.7	8,912.4	29.4	21.3	-29.74	-196.3	-624.3	978.5	942.1	36.45	26.844	
10,100.0	9,729.8	9,200.0	8,917.1	29.4	21.3	-29.85	-213.0	-624.5	976.9	940.4	36.48	26.777	
10,150.0	9,737.1	9,200.0	8,917.1	29.5	21.3	-30.07	-213.0	-624.5	972.6	936.4	36.28	26.807	
10,165.0	9,738.4	9,220.9	8,922.0	29.5	21.4	-30.25	-233.3	-624.7	970.6	934.2	36.42	26.648	
10,200.0	9,739.9	9,234.9	8,925.0	29.5	21.4	-30.57	-247.0	-624.8	965.6	929.2	36.43	26.507	
10,207.7	9,740.0	9,250.0	8,927.7	29.5	21.4	-30.72	-261.8	-624.9	964.6	928.0	36.54	26.401	
10,260.0	9,740.0	9,250.0	8,927.7	29.6	21.4	-30.72	-261.8	-624.9	956.7	920.4	36.33	26.335	
10,300.0	9,740.0	9,275.3	8,931.4	29.6	21.4	-30.83	-286.8	-625.1	951.8	915.4	36.40	26.151	
10,355.0	9,740.1	9,300.0	8,934.0	29.7	21.4	-30.91	-311.4	-625.4	946.8	910.4	36.41	26.004	
10,400.0	9,740.1	9,316.5	8,935.2	29.7	21.5	-30.95	-327.8	-625.5	944.1	907.7	36.39	25.948	
10,450.0	9,740.1	9,346.7	8,936.0	29.8	21.5	-30.97	-358.0	-625.8	942.7	906.2	36.47	25.851	
10,500.0	9,740.2	9,373.8	8,936.0	29.9	21.5	-30.97	-385.1	-626.0	942.4	905.9	36.50	25.816	
10,509.6	9,740.2	9,383.4	8,936.1	29.9	21.5	-30.97	-394.7	-626.1	942.4	905.8	36.55	25.786	
10,545.0	9,740.2	9,418.8	8,936.1	30.0	21.6	-30.97	-430.1	-626.4	942.3	905.6	36.71	25.669	
10,600.0	9,740.2	9,473.8	8,936.2	30.1	21.7	-30.98	-485.1	-626.9	942.3	905.3	36.98	25.484	
10,640.0	9,740.2	9,513.8	8,936.3	30.1	21.7	-30.98	-525.1	-627.3	942.3	905.1	37.18	25.340	
10,700.0	9,740.3	9,573.8	8,936.4	30.2	21.8	-30.98	-585.1	-627.8	942.2	904.7	37.51	25.119	
10,735.0	9,740.3	9,608.8	8,936.4	30.3	21.9	-30.98	-620.1	-628.1	942.2	904.5	37.71	24.984	
10,800.0	9,740.3	9,673.8	8,936.5	30.4	22.0	-30.98	-685.1	-628.7	942.1	904.0	38.10	24.727	
10,830.0	9,740.3	9,703.8	8,936.6	30.5	22.1	-30.98	-715.1	-628.9	942.1	903.8	38.29	24.605	
10,900.0	9,740.4	9,773.8	8,936.7	30.6	22.2	-30.99	-785.1	-629.6	942.0	903.3	38.74	24.313	
10,925.0	9,740.4	9,798.8	8,936.7	30.7	22.3	-30.99	-810.1	-629.8	942.0	903.1	38.91	24.207	
11,000.0	9,740.4	9,873.8	8,936.9	30.8	22.4	-30.99	-885.1	-630.5	941.9	902.5	39.44	23.882	
11,020.0	9,740.4	9,893.8	8,936.9	30.9	22.5	-30.99	-905.1	-630.6	941.9	902.3	39.59	23.794	
11,100.0	9,740.5	9,973.8	8,937.0	31.1	22.7	-30.99	-985.1	-631.3	941.8	901.6	40.19	23.437	
11,115.0	9,740.5	9,988.8	8,937.0	31.1	22.7	-30.99	-1,000.1	-631.5	941.8	901.5	40.30	23.369	
11,200.0	9,740.5	10,073.8	8,937.2	31.3	22.9	-31.00	-1,085.1	-632.2	941.7	900.8	40.98	22.982	
11,210.0	9,740.5	10,083.8	8,937.2	31.3	23.0	-31.00	-1,095.1	-632.3	941.7	900.7	41.06	22.936	
11,300.0	9,740.6	10,173.8	8,937.3	31.6	23.2	-31.00	-1,185.1	-633.1	941.6	899.8	41.81	22.521	
11,305.0	9,740.6	10,178.8	8,937.3	31.6	23.2	-31.00	-1,190.1	-633.2	941.6	899.8	41.86	22.497	
11,400.0	9,740.6	10,273.8	8,937.5	31.8	23.5	-31.00	-1,285.1	-634.0	941.6	898.9	42.69	22.056	
11,495.0	9,740.7	10,368.8	8,937.7	32.1	23.8	-31.01	-1,380.1	-634.9	941.5	897.9	43.56	21.615	
11,500.0	9,740.7	10,373.8	8,937.7	32.1	23.8	-31.01	-1,385.1	-634.9	941.5	897.9	43.60	21.592	
11,590.0	9,740.7	10,463.8	8,937.8	32.4	24.1	-31.01	-1,475.1	-635.7	941.4	896.9	44.46	21.175	
11,600.0	9,740.7	10,473.8	8,937.8	32.4	24.2	-31.01	-1,485.1	-635.8	941.4	896.8	44.55	21.129	
11,685.0	9,740.8	10,558.8	8,938.0	32.7	24.4	-31.01	-1,570.1	-636.5	941.3	895.9	45.39	20.738	
11,700.0	9,740.8	10,573.8	8,938.0	32.7	24.5	-31.01	-1,585.1	-636.7	941.3	895.7	45.54	20.670	
11,780.0	9,740.8	10,653.8	8,938.1	33.0	24.8	-31.02	-1,665.0	-637.4	941.2	894.8	46.35	20.307	
11,800.0	9,740.8	10,673.8	8,938.1	33.1	24.9	-31.02	-1,685.0	-637.6	941.2	894.6	46.55	20.217	
11,875.0	9,740.9	10,748.8	8,938.3	33.3	25.2	-31.02	-1,760.0	-638.2	941.1	893.8	47.34	19.881	
11,900.0	9,740.9	10,773.8	8,938.3	33.4	25.3	-31.02	-1,785.0	-638.4	941.1	893.5	47.60	19.771	
11,970.0	9,740.9	10,843.8	8,938.4	33.7	25.5	-31.02	-1,855.0	-639.1	941.0	892.7	48.35	19.463	
12,000.0	9,740.9	10,873.8	8,938.5	33.8	25.7	-31.02	-1,885.0	-639.3	941.0	892.3	48.67	19.333	

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 #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #806H	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 #709H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8448-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Offset	Highside	Offset Wellbore Centre	Distance	Minimum	Separation	Rule Assigned:			
Measured	Vertical	Measured	Vertical	Reference	Offset	Toolface	+N/-S	+E/-W	Between	Between	Separation	Warning
Depth	Depth	Depth	Depth	(usft)	(usft)	(°)	(usft)	(usft)	Centres	Ellipses	(usft)	
(usft)	(usft)	(usft)	(usft)						(usft)	(usft)		
12,065.0	9,741.0	10,938.8	8,938.6	34.0	25.9	-31.03	-1,950.0	-639.9	940.9	891.5	49.39	19.053
12,100.0	9,741.0	10,973.8	8,938.6	34.1	26.1	-31.03	-1,985.0	-640.2	940.9	891.1	49.77	18.905
12,160.0	9,741.0	11,033.8	8,938.7	34.4	26.4	-31.03	-2,045.0	-640.8	940.8	890.4	50.44	18.651
12,200.0	9,741.1	11,073.8	8,938.8	34.5	26.5	-31.03	-2,085.0	-641.1	940.8	889.9	50.89	18.486
12,255.0	9,741.1	11,128.8	8,938.9	34.7	26.8	-31.03	-2,140.0	-641.6	940.8	889.2	51.52	18.259
12,300.0	9,741.1	11,173.8	8,939.0	34.9	27.0	-31.03	-2,185.0	-642.0	940.7	888.7	52.04	18.077
12,350.0	9,741.1	11,223.8	8,939.0	35.1	27.2	-31.04	-2,235.0	-642.4	940.7	888.0	52.62	17.876
12,400.0	9,741.2	11,273.8	8,939.1	35.3	27.5	-31.04	-2,285.0	-642.9	940.6	887.4	53.21	17.679
12,445.0	9,741.2	11,318.8	8,939.2	35.5	27.7	-31.04	-2,330.0	-643.3	940.6	886.8	53.74	17.503
12,500.0	9,741.2	11,373.8	8,939.3	35.7	27.9	-31.04	-2,385.0	-643.8	940.5	886.1	54.39	17.291
12,540.0	9,741.2	11,413.8	8,939.3	35.9	28.1	-31.04	-2,425.0	-644.1	940.5	885.6	54.87	17.139
12,600.0	9,741.3	11,473.8	8,939.4	36.1	28.4	-31.05	-2,485.0	-644.7	940.4	884.8	55.60	16.915
12,635.0	9,741.3	11,508.8	8,939.5	36.3	28.6	-31.05	-2,520.0	-645.0	940.4	884.4	56.02	16.786
12,700.0	9,741.3	11,573.8	8,939.6	36.6	28.9	-31.05	-2,585.0	-645.5	940.3	883.5	56.82	16.549
12,730.0	9,741.3	11,603.8	8,939.6	36.7	29.1	-31.05	-2,615.0	-645.8	940.3	883.1	57.19	16.442
12,800.0	9,741.4	11,673.8	8,939.8	37.0	29.5	-31.05	-2,685.0	-646.4	940.3	882.2	58.06	16.195
12,825.0	9,741.4	11,698.8	8,939.8	37.1	29.6	-31.05	-2,710.0	-646.7	940.2	881.9	58.37	16.108
12,900.0	9,741.4	11,773.8	8,939.9	37.5	30.0	-31.06	-2,785.0	-647.3	940.2	880.8	59.31	15.851
12,920.0	9,741.4	11,793.8	8,940.0	37.6	30.1	-31.06	-2,805.0	-647.5	940.1	880.6	59.56	15.783
13,000.0	9,741.5	11,873.8	8,940.1	37.9	30.5	-31.06	-2,885.0	-648.2	940.1	879.5	60.58	15.518
13,015.0	9,741.5	11,888.8	8,940.1	38.0	30.6	-31.06	-2,900.0	-648.3	940.1	879.3	60.77	15.469
13,100.0	9,741.5	11,973.8	8,940.2	38.4	31.1	-31.06	-2,985.0	-649.1	940.0	878.1	61.86	15.195
13,110.0	9,741.5	11,983.8	8,940.3	38.5	31.1	-31.06	-2,995.0	-649.2	940.0	878.0	61.99	15.163
13,200.0	9,741.6	12,073.8	8,940.4	38.9	31.6	-31.07	-3,085.0	-650.0	939.9	876.7	63.15	14.882
13,205.0	9,741.6	12,078.8	8,940.4	38.9	31.7	-31.07	-3,090.0	-650.0	939.9	876.7	63.22	14.867
13,300.0	9,741.6	12,173.8	8,940.6	39.4	32.2	-31.07	-3,185.0	-650.9	939.8	875.3	64.46	14.579
13,395.0	9,741.7	12,268.8	8,940.7	39.9	32.8	-31.07	-3,280.0	-651.7	939.7	874.0	65.71	14.300
13,400.0	9,741.7	12,273.8	8,940.7	39.9	32.8	-31.07	-3,285.0	-651.8	939.7	873.9	65.78	14.286
13,490.0	9,741.7	12,363.8	8,940.9	40.3	33.3	-31.08	-3,375.0	-652.6	939.6	872.6	66.97	14.030
13,500.0	9,741.7	12,373.8	8,940.9	40.4	33.4	-31.08	-3,385.0	-652.6	939.6	872.5	67.10	14.002
13,585.0	9,741.8	12,458.8	8,941.0	40.8	33.9	-31.08	-3,470.0	-653.4	939.5	871.3	68.24	13.768
13,600.0	9,741.8	12,473.8	8,941.1	40.9	34.0	-31.08	-3,485.0	-653.5	939.5	871.1	68.44	13.727
13,680.0	9,741.8	12,553.8	8,941.2	41.3	34.5	-31.08	-3,565.0	-654.2	939.4	869.9	69.52	13.514
13,700.0	9,741.8	12,573.8	8,941.2	41.4	34.6	-31.08	-3,585.0	-654.4	939.4	869.6	69.79	13.461
13,775.0	9,741.9	12,648.8	8,941.3	41.8	35.0	-31.09	-3,660.0	-655.1	939.3	868.5	70.80	13.267
13,800.0	9,741.9	12,673.8	8,941.4	42.0	35.2	-31.09	-3,685.0	-655.3	939.3	868.2	71.14	13.204
13,870.0	9,741.9	12,743.8	8,941.5	42.4	35.6	-31.09	-3,755.0	-655.9	939.3	867.2	72.09	13.028
13,900.0	9,742.0	12,773.8	8,941.5	42.5	35.8	-31.09	-3,785.0	-656.2	939.2	866.7	72.50	12.954
13,965.0	9,742.0	12,838.8	8,941.6	42.9	36.2	-31.09	-3,850.0	-656.8	939.2	865.8	73.39	12.796
14,000.0	9,742.0	12,873.8	8,941.7	43.1	36.4	-31.09	-3,885.0	-657.1	939.1	865.3	73.87	12.713
14,060.0	9,742.0	12,933.8	8,941.8	43.4	36.8	-31.10	-3,945.0	-657.6	939.1	864.4	74.70	12.571
14,100.0	9,742.1	12,973.8	8,941.9	43.6	37.1	-31.10	-3,985.0	-658.0	939.0	863.8	75.25	12.479
14,155.0	9,742.1	13,028.8	8,941.9	43.9	37.4	-31.10	-4,040.0	-658.5	939.0	863.0	76.01	12.353
14,200.0	9,742.1	13,073.8	8,942.0	44.2	37.7	-31.10	-4,084.9	-658.9	938.9	862.3	76.64	12.252
14,250.0	9,742.1	13,123.8	8,942.1	44.5	38.0	-31.10	-4,134.9	-659.3	938.9	861.6	77.33	12.141
14,300.0	9,742.2	13,173.8	8,942.2	44.7	38.3	-31.10	-4,184.9	-659.8	938.9	860.8	78.03	12.032
14,345.0	9,742.2	13,218.8	8,942.3	45.0	38.6	-31.10	-4,229.9	-660.2	938.8	860.2	78.66	11.935
14,400.0	9,742.2	13,273.8	8,942.3	45.3	39.0	-31.11	-4,284.9	-660.6	938.8	859.3	79.43	11.819
14,440.0	9,742.2	13,313.8	8,942.4	45.6	39.2	-31.11	-4,324.9	-661.0	938.7	858.7	79.99	11.736
14,500.0	9,742.3	13,373.8	8,942.5	45.9	39.6	-31.11	-4,384.9	-661.5	938.7	857.8	80.83	11.613
14,535.0	9,742.3	13,408.8	8,942.6	46.1	39.9	-31.11	-4,419.9	-661.8	938.6	857.3	81.32	11.542

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 #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #806H	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 #709H - OWB - PWP1													Offset Site Error: 0.0 usft	
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8448-r.5 MWD+IFR1+MS							Rule Assigned:				Offset Well Error: 3.0 usft	
Measured	Reference	Offset	Semi Major Axis	Offset Wellbore Centre		Distance		Rule Assigned:		Offset Well Error: 3.0 usft		Warning		
Depth (usft)	Depth (usft)	Depth (usft)	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	
14,600.0	9,742.3	13,473.8	8,942.7	46.5	40.3	-31.11	-4,484.9	-662.4	938.6	856.3	82.24	11.413		
14,630.0	9,742.3	13,503.8	8,942.7	46.7	40.5	-31.11	-4,514.9	-662.7	938.5	855.9	82.66	11.354		
14,700.0	9,742.4	13,573.8	8,942.8	47.1	40.9	-31.12	-4,584.9	-663.3	938.5	854.8	83.65	11.219		
14,725.0	9,742.4	13,598.8	8,942.9	47.2	41.1	-31.12	-4,609.9	-663.5	938.5	854.5	84.01	11.171		
14,800.0	9,742.4	13,673.8	8,943.0	47.7	41.6	-31.12	-4,684.9	-664.2	938.4	853.3	85.07	11.030		
14,820.0	9,742.4	13,693.8	8,943.0	47.8	41.7	-31.12	-4,704.9	-664.4	938.4	853.0	85.36	10.993		
14,900.0	9,742.5	13,773.8	8,943.2	48.3	42.3	-31.12	-4,784.9	-665.1	938.3	851.8	86.50	10.848		
14,915.0	9,742.5	13,788.8	8,943.2	48.4	42.4	-31.12	-4,799.9	-665.2	938.3	851.6	86.71	10.821		
15,000.0	9,742.5	13,873.8	8,943.3	48.9	42.9	-31.13	-4,884.9	-666.0	938.2	850.3	87.93	10.670		
15,010.0	9,742.5	13,883.8	8,943.3	48.9	43.0	-31.13	-4,894.9	-666.1	938.2	850.1	88.07	10.653		
15,100.0	9,742.6	13,973.8	8,943.5	49.5	43.6	-31.13	-4,984.9	-666.9	938.1	848.8	89.36	10.498		
15,105.0	9,742.6	13,978.8	8,943.5	49.5	43.6	-31.13	-4,989.9	-666.9	938.1	848.7	89.43	10.489		
15,200.0	9,742.6	14,073.8	8,943.6	50.1	44.3	-31.13	-5,084.9	-667.7	938.0	847.2	90.80	10.331		
15,295.0	9,742.7	14,168.8	8,943.8	50.7	44.9	-31.14	-5,179.9	-668.6	937.9	845.8	92.17	10.176		
15,300.0	9,742.7	14,173.8	8,943.8	50.7	45.0	-31.14	-5,184.9	-668.6	937.9	845.7	92.24	10.168		
15,390.0	9,742.7	14,263.8	8,943.9	51.3	45.6	-31.14	-5,274.9	-669.4	937.8	844.3	93.54	10.026		
15,400.0	9,742.7	14,273.8	8,944.0	51.3	45.6	-31.14	-5,284.9	-669.5	937.8	844.1	93.69	10.010		
15,485.0	9,742.8	14,358.8	8,944.1	51.9	46.2	-31.14	-5,369.9	-670.3	937.8	842.8	94.92	9.880		
15,500.0	9,742.8	14,373.8	8,944.1	52.0	46.3	-31.14	-5,384.9	-670.4	937.7	842.6	95.13	9.857		
15,580.0	9,742.8	14,453.8	8,944.3	52.5	46.9	-31.15	-5,464.9	-671.1	937.7	841.4	96.30	9.737		
15,600.0	9,742.9	14,473.8	8,944.3	52.6	47.0	-31.15	-5,484.9	-671.3	937.6	841.1	96.59	9.708		
15,675.0	9,742.9	14,548.8	8,944.4	53.1	47.5	-31.15	-5,559.9	-672.0	937.6	839.9	97.68	9.599		
15,700.0	9,742.9	14,573.8	8,944.4	53.2	47.7	-31.15	-5,584.9	-672.2	937.6	839.5	98.04	9.563		
15,770.0	9,742.9	14,643.8	8,944.6	53.7	48.2	-31.15	-5,654.9	-672.8	937.5	838.4	99.06	9.463		
15,800.0	9,743.0	14,673.8	8,944.6	53.9	48.4	-31.15	-5,684.9	-673.1	937.5	838.0	99.50	9.422		
15,865.0	9,743.0	14,738.8	8,944.7	54.3	48.8	-31.16	-5,749.9	-673.6	937.4	836.9	100.45	9.332		
15,900.0	9,743.0	14,773.8	8,944.8	54.5	49.1	-31.16	-5,784.9	-674.0	937.4	836.4	100.96	9.284		
15,960.0	9,743.0	14,833.8	8,944.9	54.9	49.5	-31.16	-5,844.9	-674.5	937.3	835.5	101.84	9.204		
16,000.0	9,743.1	14,873.8	8,944.9	55.2	49.8	-31.16	-5,884.9	-674.8	937.3	834.8	102.43	9.151		
16,055.0	9,743.1	14,928.8	8,945.0	55.5	50.2	-31.16	-5,939.9	-675.3	937.2	834.0	103.23	9.079		
16,100.0	9,743.1	14,973.8	8,945.1	55.8	50.5	-31.17	-5,984.9	-675.7	937.2	833.3	103.90	9.020		
16,150.0	9,743.1	15,023.8	8,945.2	56.1	50.8	-31.17	-6,034.9	-676.2	937.1	832.5	104.63	8.957		
16,200.0	9,743.2	15,073.8	8,945.3	56.5	51.2	-31.17	-6,084.9	-676.6	937.1	831.7	105.37	8.894		
16,245.0	9,743.2	15,118.8	8,945.3	56.7	51.5	-31.17	-6,129.9	-677.0	937.0	831.0	106.03	8.838		
16,300.0	9,743.2	15,173.8	8,945.4	57.1	51.9	-31.17	-6,184.9	-677.5	937.0	830.2	106.84	8.770		
16,340.0	9,743.2	15,213.8	8,945.5	57.4	52.2	-31.17	-6,224.9	-677.9	937.0	829.5	107.43	8.722		
16,400.0	9,743.3	15,273.8	8,945.6	57.8	52.6	-31.18	-6,284.9	-678.4	936.9	828.6	108.31	8.650		
16,435.0	9,743.3	15,308.8	8,945.6	58.0	52.8	-31.18	-6,319.9	-678.7	936.9	828.0	108.83	8.609		
16,500.0	9,743.3	15,373.8	8,945.7	58.4	53.3	-31.18	-6,384.9	-679.3	936.8	827.0	109.79	8.533		
16,530.0	9,743.3	15,403.8	8,945.8	58.6	53.5	-31.18	-6,414.9	-679.5	936.8	826.5	110.23	8.498		
16,600.0	9,743.4	15,473.8	8,945.9	59.1	54.0	-31.18	-6,484.9	-680.2	936.7	825.4	111.27	8.418		
16,625.0	9,743.4	15,498.8	8,945.9	59.2	54.2	-31.18	-6,509.9	-680.4	936.7	825.1	111.64	8.390		
16,700.0	9,743.4	15,573.8	8,946.1	59.7	54.7	-31.19	-6,584.9	-681.1	936.6	823.9	112.75	8.307		
16,720.0	9,743.4	15,593.8	8,946.1	59.9	54.8	-31.19	-6,604.9	-681.2	936.6	823.6	113.05	8.285		
16,800.0	9,743.5	15,673.8	8,946.2	60.4	55.4	-31.19	-6,684.9	-681.9	936.5	822.3	114.24	8.198		
16,815.0	9,743.5	15,688.8	8,946.2	60.5	55.5	-31.19	-6,699.9	-682.1	936.5	822.1	114.46	8.182		
16,900.0	9,743.5	15,773.8	8,946.4	61.1	56.1	-31.19	-6,784.9	-682.8	936.4	820.7	115.72	8.092		
16,910.0	9,743.5	15,783.8	8,946.4	61.1	56.2	-31.19	-6,794.9	-682.9	936.4	820.6	115.87	8.082		
17,000.0	9,743.6	15,873.8	8,946.5	61.8	56.8	-31.20	-6,884.9	-683.7	936.3	819.1	117.21	7.989		
17,005.0	9,743.6	15,878.8	8,946.6	61.8	56.9	-31.20	-6,889.9	-683.8	936.3	819.1	117.28	7.984		
17,100.0	9,743.6	15,973.8	8,946.7	62.4	57.5	-31.20	-6,984.9	-684.6	936.3	817.6	118.70	7.888		

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 #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #806H	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 #709H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8448-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)	Factor		
17,195.0	9,743.7	16,068.8	8,946.9	63.1	58.2	-31.20	-7,079.8	-685.5	936.2	816.1	120.12	7.794		
17,200.0	9,743.7	16,073.8	8,946.9	63.1	58.3	-31.20	-7,084.8	-685.5	936.2	816.0	120.19	7.789		
17,290.0	9,743.7	16,163.8	8,947.0	63.7	58.9	-31.21	-7,174.8	-686.3	936.1	814.5	121.53	7.702		
17,300.0	9,743.8	16,173.8	8,947.0	63.8	59.0	-31.21	-7,184.8	-686.4	936.1	814.4	121.68	7.693		
17,385.0	9,743.8	16,258.8	8,947.2	64.4	59.6	-31.21	-7,269.8	-687.1	936.0	813.0	122.95	7.613		
17,400.0	9,743.8	16,273.8	8,947.2	64.5	59.7	-31.21	-7,284.8	-687.3	936.0	812.8	123.18	7.599		
17,480.0	9,743.8	16,353.8	8,947.3	65.0	60.3	-31.21	-7,364.8	-688.0	935.9	811.5	124.37	7.525		
17,500.0	9,743.9	16,373.8	8,947.4	65.1	60.4	-31.21	-7,384.8	-688.2	935.9	811.2	124.67	7.507		
17,575.0	9,743.9	16,448.8	8,947.5	65.7	61.0	-31.22	-7,459.8	-688.8	935.8	810.0	125.80	7.439		
17,600.0	9,743.9	16,473.8	8,947.5	65.8	61.1	-31.22	-7,484.8	-689.0	935.8	809.6	126.17	7.417		
17,670.0	9,743.9	16,543.8	8,947.6	66.3	61.6	-31.22	-7,554.8	-689.7	935.7	808.5	127.22	7.355		
17,700.0	9,744.0	16,573.8	8,947.7	66.5	61.9	-31.22	-7,584.8	-689.9	935.7	808.0	127.67	7.329		
17,765.0	9,744.0	16,638.8	8,947.8	67.0	62.3	-31.22	-7,649.8	-690.5	935.6	807.0	128.65	7.273		
17,800.0	9,744.0	16,673.8	8,947.8	67.2	62.6	-31.22	-7,684.8	-690.8	935.6	806.4	129.17	7.243		
17,860.0	9,744.0	16,733.8	8,947.9	67.6	63.0	-31.23	-7,744.8	-691.4	935.5	805.5	130.07	7.192		
17,900.0	9,744.1	16,773.8	8,948.0	67.9	63.3	-31.23	-7,784.8	-691.7	935.5	804.8	130.67	7.159		
17,955.0	9,744.1	16,828.8	8,948.1	68.3	63.7	-31.23	-7,839.8	-692.2	935.5	804.0	131.50	7.114		
18,000.0	9,744.1	16,873.8	8,948.2	68.6	64.0	-31.23	-7,884.8	-692.6	935.4	803.2	132.18	7.077		
18,050.0	9,744.1	16,923.8	8,948.2	68.9	64.4	-31.23	-7,934.8	-693.0	935.4	802.4	132.93	7.037		
18,100.0	9,744.2	16,973.8	8,948.3	69.3	64.8	-31.23	-7,984.8	-693.5	935.3	801.6	133.68	6.997		
18,145.0	9,744.2	17,018.8	8,948.4	69.6	65.1	-31.24	-8,029.8	-693.9	935.3	800.9	134.36	6.961		
18,200.0	9,744.2	17,073.8	8,948.5	70.0	65.5	-31.24	-8,084.8	-694.4	935.2	800.0	135.19	6.918		
18,240.0	9,744.2	17,113.8	8,948.5	70.2	65.8	-31.24	-8,124.8	-694.7	935.2	799.4	135.79	6.887		
18,300.0	9,744.3	17,173.8	8,948.6	70.7	66.2	-31.24	-8,184.8	-695.3	935.1	798.4	136.69	6.841		
18,335.0	9,744.3	17,208.8	8,948.7	70.9	66.5	-31.24	-8,219.8	-695.6	935.1	797.9	137.22	6.815		
18,400.0	9,744.3	17,273.8	8,948.8	71.4	66.9	-31.24	-8,284.8	-696.1	935.0	796.8	138.20	6.766		
18,430.0	9,744.3	17,303.8	8,948.9	71.6	67.2	-31.25	-8,314.8	-696.4	935.0	796.4	138.66	6.743		
18,500.0	9,744.4	17,373.8	8,949.0	72.1	67.7	-31.25	-8,384.8	-697.0	935.0	795.2	139.71	6.692		
18,525.0	9,744.4	17,398.8	8,949.0	72.2	67.9	-31.25	-8,409.8	-697.3	934.9	794.8	140.09	6.674		
18,600.0	9,744.4	17,473.8	8,949.1	72.8	68.4	-31.25	-8,484.8	-697.9	934.9	793.6	141.22	6.620		
18,620.0	9,744.4	17,493.8	8,949.2	72.9	68.5	-31.25	-8,504.8	-698.1	934.8	793.3	141.53	6.605		
18,700.0	9,744.5	17,573.8	8,949.3	73.5	69.1	-31.26	-8,584.8	-698.8	934.8	792.0	142.73	6.549		
18,715.0	9,744.5	17,588.8	8,949.3	73.6	69.2	-31.26	-8,599.8	-698.9	934.8	791.8	142.96	6.539		
18,800.0	9,744.5	17,673.8	8,949.5	74.2	69.9	-31.26	-8,684.8	-699.7	934.7	790.4	144.25	6.480		
18,810.0	9,744.6	17,683.8	8,949.5	74.2	69.9	-31.26	-8,694.8	-699.8	934.7	790.3	144.40	6.473		
18,900.0	9,744.6	17,773.8	8,949.6	74.9	70.6	-31.26	-8,784.8	-700.6	934.6	788.8	145.76	6.412		
18,905.0	9,744.6	17,778.8	8,949.6	74.9	70.6	-31.26	-8,789.8	-700.6	934.6	788.7	145.84	6.408		
19,000.0	9,744.7	17,873.8	8,949.8	75.6	71.3	-31.27	-8,884.8	-701.5	934.5	787.2	147.28	6.345		
19,095.0	9,744.7	17,968.8	8,949.9	76.2	72.0	-31.27	-8,979.7	-702.3	934.4	785.7	148.71	6.283		
19,100.0	9,744.7	17,973.8	8,949.9	76.3	72.1	-31.27	-8,984.7	-702.4	934.4	785.6	148.79	6.280		
19,190.0	9,744.8	18,063.8	8,950.1	76.9	72.7	-31.27	-9,074.7	-703.2	934.3	784.2	150.16	6.222		
19,200.0	9,744.8	18,073.8	8,950.1	77.0	72.8	-31.27	-9,084.7	-703.2	934.3	784.0	150.31	6.216		
19,285.0	9,744.8	18,158.8	8,950.2	77.6	73.4	-31.28	-9,169.7	-704.0	934.2	782.6	151.60	6.163		
19,300.0	9,744.8	18,173.8	8,950.3	77.7	73.5	-31.28	-9,184.7	-704.1	934.2	782.4	151.82	6.153		
19,380.0	9,744.9	18,253.8	8,950.4	78.3	74.1	-31.28	-9,264.7	-704.8	934.1	781.1	153.04	6.104		
19,400.0	9,744.9	18,273.8	8,950.4	78.4	74.3	-31.28	-9,284.7	-705.0	934.1	780.8	153.34	6.092		
19,475.0	9,744.9	18,348.8	8,950.5	78.9	74.8	-31.28	-9,359.7	-705.7	934.0	779.6	154.48	6.046		
19,500.0	9,744.9	18,373.8	8,950.6	79.1	75.0	-31.28	-9,384.7	-705.9	934.0	779.2	154.86	6.031		
19,570.0	9,745.0	18,443.8	8,950.7	79.6	75.5	-31.29	-9,454.7	-706.5	934.0	778.0	155.92	5.990		
19,600.0	9,745.0	18,473.8	8,950.7	79.8	75.7	-31.29	-9,484.7	-706.8	933.9	777.6	156.38	5.972		
19,665.0	9,745.0	18,538.8	8,950.8	80.3	76.2	-31.29	-9,549.7	-707.4	933.9	776.5	157.37	5.934		

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 #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #806H	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 #709H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8448-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)	Minimum Separation (usft)	Separation Factor
19,700.0	9,745.0	18,573.8	8,950.9	80.5	76.5	-31.29	-9,584.7	-707.7	933.8	775.9	157.90	5.914
19,760.0	9,745.1	18,633.8	8,951.0	81.0	76.9	-31.29	-9,644.7	-708.2	933.8	775.0	158.81	5.880
19,800.0	9,745.1	18,673.8	8,951.1	81.3	77.2	-31.29	-9,684.7	-708.6	933.7	774.3	159.42	5.857
19,855.0	9,745.1	18,728.8	8,951.2	81.6	77.6	-31.30	-9,739.7	-709.1	933.7	773.4	160.26	5.826
19,900.0	9,745.1	18,773.8	8,951.2	82.0	78.0	-31.30	-9,784.7	-709.5	933.7	772.7	160.94	5.801
19,950.0	9,745.2	18,823.8	8,951.3	82.3	78.3	-31.30	-9,834.7	-709.9	933.6	771.9	161.71	5.774
20,000.0	9,745.2	18,873.8	8,951.4	82.7	78.7	-31.30	-9,884.7	-710.4	933.6	771.1	162.47	5.746
20,045.0	9,745.2	18,918.8	8,951.5	83.0	79.0	-31.30	-9,929.7	-710.7	933.5	770.4	163.15	5.722
20,100.0	9,745.2	18,973.8	8,951.6	83.4	79.4	-31.30	-9,984.7	-711.2	933.5	769.5	163.99	5.692
20,140.0	9,745.3	19,013.8	8,951.6	83.7	79.7	-31.31	-10,024.7	-711.6	933.4	768.8	164.60	5.671
20,200.0	9,745.3	19,073.8	8,951.7	84.1	80.2	-31.31	-10,084.7	-712.1	933.4	767.9	165.51	5.639
20,235.0	9,745.3	19,108.8	8,951.8	84.4	80.4	-31.31	-10,119.7	-712.4	933.3	767.3	166.05	5.621
20,300.0	9,745.3	19,173.8	8,951.9	84.8	80.9	-31.31	-10,184.7	-713.0	933.3	766.2	167.04	5.587
20,330.0	9,745.4	19,203.8	8,951.9	85.1	81.1	-31.31	-10,214.7	-713.3	933.3	765.8	167.50	5.572
20,400.0	9,745.4	19,273.8	8,952.0	85.6	81.6	-31.31	-10,284.7	-713.9	933.2	764.6	168.56	5.536
20,425.0	9,745.4	19,298.8	8,952.1	85.7	81.8	-31.31	-10,309.7	-714.1	933.2	764.2	168.95	5.523
20,500.0	9,745.4	19,373.8	8,952.2	86.3	82.4	-31.32	-10,384.7	-714.8	933.1	763.0	170.09	5.486
20,520.0	9,745.5	19,393.8	8,952.2	86.4	82.5	-31.32	-10,404.7	-715.0	933.1	762.7	170.39	5.476
20,600.0	9,745.5	19,473.8	8,952.4	87.0	83.1	-31.32	-10,484.7	-715.7	933.0	761.4	171.62	5.437
20,615.0	9,745.5	19,488.8	8,952.4	87.1	83.2	-31.32	-10,499.7	-715.8	933.0	761.1	171.85	5.429
20,700.0	9,745.5	19,573.8	8,952.5	87.7	83.9	-31.32	-10,584.7	-716.6	932.9	759.8	173.14	5.388
20,710.0	9,745.6	19,583.8	8,952.5	87.8	83.9	-31.32	-10,594.7	-716.7	932.9	759.6	173.30	5.383
20,800.0	9,745.6	19,673.8	8,952.7	88.4	84.6	-31.33	-10,684.7	-717.5	932.8	758.2	174.67	5.340
20,805.0	9,745.6	19,678.8	8,952.7	88.5	84.7	-31.33	-10,689.7	-717.5	932.8	758.1	174.75	5.338
20,900.0	9,745.7	19,773.8	8,952.8	89.2	85.4	-31.33	-10,784.7	-718.3	932.7	756.5	176.20	5.294
20,995.0	9,745.7	19,868.8	8,953.0	89.8	86.1	-31.33	-10,879.7	-719.2	932.6	755.0	177.65	5.250
21,000.0	9,745.7	19,873.8	8,953.0	89.9	86.1	-31.33	-10,884.7	-719.2	932.6	754.9	177.73	5.248
21,090.0	9,745.8	19,963.8	8,953.2	90.5	86.8	-31.34	-10,974.7	-720.0	932.6	753.4	179.10	5.207
21,100.0	9,745.8	19,973.8	8,953.2	90.6	86.8	-31.34	-10,984.7	-720.1	932.5	753.3	179.26	5.202
21,185.0	9,745.8	20,058.8	8,953.3	91.2	87.5	-31.34	-11,069.7	-720.9	932.5	751.9	180.56	5.164
21,200.0	9,745.8	20,073.8	8,953.3	91.3	87.6	-31.34	-11,084.7	-721.0	932.4	751.7	180.79	5.158
21,280.0	9,745.9	20,153.8	8,953.5	91.9	88.2	-31.34	-11,164.7	-721.7	932.4	750.4	182.01	5.123
21,300.0	9,745.9	20,173.8	8,953.5	92.1	88.3	-31.35	-11,184.7	-721.9	932.4	750.0	182.32	5.114
21,375.0	9,745.9	20,248.8	8,953.6	92.6	88.9	-31.35	-11,259.7	-722.6	932.3	748.8	183.46	5.082
21,400.0	9,745.9	20,273.8	8,953.7	92.8	89.1	-31.35	-11,284.7	-722.8	932.3	748.4	183.85	5.071
21,470.0	9,746.0	20,343.8	8,953.8	93.3	89.6	-31.35	-11,354.6	-723.4	932.2	747.3	184.92	5.041
21,500.0	9,746.0	20,373.8	8,953.8	93.5	89.8	-31.35	-11,384.6	-723.7	932.2	746.8	185.38	5.028
21,565.0	9,746.0	20,438.8	8,953.9	94.0	90.3	-31.35	-11,449.6	-724.2	932.1	745.7	186.37	5.001
21,600.0	9,746.0	20,473.8	8,954.0	94.2	90.6	-31.36	-11,484.6	-724.6	932.1	745.2	186.91	4.987
21,660.0	9,746.1	20,533.8	8,954.1	94.7	91.0	-31.36	-11,544.6	-725.1	932.0	744.2	187.83	4.962
21,700.0	9,746.1	20,573.8	8,954.1	95.0	91.3	-31.36	-11,584.6	-725.4	932.0	743.5	188.44	4.946
21,755.0	9,746.1	20,628.8	8,954.2	95.4	91.7	-31.36	-11,639.6	-725.9	931.9	742.6	189.29	4.923
21,800.0	9,746.1	20,673.8	8,954.3	95.7	92.1	-31.36	-11,684.6	-726.3	931.9	741.9	189.98	4.905
21,850.0	9,746.2	20,723.8	8,954.4	96.1	92.4	-31.36	-11,734.6	-726.8	931.8	741.1	190.74	4.885
21,900.0	9,746.2	20,773.8	8,954.5	96.4	92.8	-31.37	-11,784.6	-727.2	931.8	740.3	191.51	4.866
21,945.0	9,746.2	20,818.8	8,954.5	96.8	93.1	-31.37	-11,829.6	-727.6	931.8	739.6	192.20	4.848
22,000.0	9,746.2	20,873.8	8,954.6	97.2	93.6	-31.37	-11,884.6	-728.1	931.7	738.7	193.04	4.826
22,040.0	9,746.3	20,913.8	8,954.7	97.4	93.8	-31.37	-11,924.6	-728.5	931.7	738.0	193.66	4.811
22,100.0	9,746.3	20,973.8	8,954.8	97.9	94.3	-31.37	-11,984.6	-729.0	931.6	737.0	194.58	4.788
22,135.0	9,746.3	21,008.8	8,954.8	98.1	94.6	-31.37	-12,019.6	-729.3	931.6	736.5	195.11	4.775
22,200.0	9,746.3	21,073.8	8,954.9	98.6	95.0	-31.38	-12,084.6	-729.9	931.5	735.4	196.11	4.750

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 #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #806H	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 #709H - OWB - PWP1														Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8448-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		
22,230.0	9,746.4	21,103.8	8,955.0	98.8	95.3	-31.38	-12,114.6	-730.1	931.5	734.9	196.57	4.739			
22,300.0	9,746.4	21,173.8	8,955.1	99.3	95.8	-31.38	-12,184.6	-730.8	931.4	733.8	197.64	4.713			
22,325.0	9,746.4	21,198.8	8,955.1	99.5	96.0	-31.38	-12,209.6	-731.0	931.4	733.4	198.03	4.703			
22,400.0	9,746.4	21,273.8	8,955.3	100.1	96.5	-31.38	-12,284.6	-731.7	931.3	732.2	199.18	4.676			
22,420.0	9,746.5	21,293.8	8,955.3	100.2	96.7	-31.38	-12,304.6	-731.8	931.3	731.8	199.49	4.669			
22,500.0	9,746.5	21,373.8	8,955.4	100.8	97.3	-31.39	-12,384.6	-732.5	931.2	730.5	200.71	4.640			
22,515.0	9,746.5	21,388.8	8,955.5	100.9	97.4	-31.39	-12,399.6	-732.7	931.2	730.3	200.95	4.634			
22,600.0	9,746.6	21,473.8	8,955.6	101.5	98.0	-31.39	-12,484.6	-733.4	931.2	728.9	202.25	4.604			
22,610.0	9,746.6	21,483.8	8,955.6	101.6	98.1	-31.39	-12,494.6	-733.5	931.1	728.7	202.40	4.600			
22,700.0	9,746.6	21,573.8	8,955.8	102.3	98.8	-31.39	-12,584.6	-734.3	931.1	727.3	203.79	4.569			
22,705.0	9,746.6	21,578.8	8,955.8	102.3	98.8	-31.39	-12,589.6	-734.4	931.1	727.2	203.86	4.567			
22,800.0	9,746.7	21,673.8	8,955.9	103.0	99.5	-31.40	-12,684.6	-735.2	931.0	725.6	205.32	4.534			
22,895.0	9,746.7	21,768.8	8,956.1	103.7	100.2	-31.40	-12,779.6	-736.0	930.9	724.1	206.78	4.502			
22,900.0	9,746.7	21,773.8	8,956.1	103.7	100.3	-31.40	-12,784.6	-736.1	930.9	724.0	206.86	4.500			
22,990.0	9,746.8	21,863.8	8,956.2	104.4	101.0	-31.40	-12,874.6	-736.9	930.8	722.5	208.24	4.470			
23,000.0	9,746.8	21,873.8	8,956.2	104.5	101.0	-31.40	-12,884.6	-737.0	930.8	722.4	208.40	4.466			
23,085.0	9,746.8	21,958.8	8,956.4	105.1	101.7	-31.41	-12,969.6	-737.7	930.7	721.0	209.70	4.438			
23,100.0	9,746.8	21,973.8	8,956.4	105.2	101.8	-31.41	-12,984.6	-737.9	930.7	720.8	209.93	4.433			
23,180.0	9,746.9	22,053.8	8,956.5	105.8	102.4	-31.41	-13,064.6	-738.6	930.6	719.5	211.16	4.407			
23,200.0	9,746.9	22,073.8	8,956.6	106.0	102.5	-31.41	-13,084.6	-738.8	930.6	719.1	211.47	4.401			
23,275.0	9,746.9	22,148.8	8,956.7	106.5	103.1	-31.41	-13,159.6	-739.4	930.5	717.9	212.63	4.376			
23,300.0	9,746.9	22,173.8	8,956.7	106.7	103.3	-31.42	-13,184.6	-739.6	930.5	717.5	213.01	4.368			
23,370.0	9,747.0	22,243.8	8,956.8	107.2	103.8	-31.42	-13,254.6	-740.3	930.4	716.4	214.09	4.346			
23,400.0	9,747.0	22,273.8	8,956.9	107.4	104.0	-31.42	-13,284.6	-740.5	930.4	715.9	214.55	4.337			
23,465.0	9,747.0	22,338.8	8,957.0	107.9	104.5	-31.42	-13,349.6	-741.1	930.4	714.8	215.55	4.316			
23,500.0	9,747.0	22,373.8	8,957.0	108.2	104.8	-31.42	-13,384.6	-741.4	930.3	714.2	216.09	4.305			
23,560.0	9,747.1	22,433.8	8,957.1	108.6	105.2	-31.42	-13,444.6	-742.0	930.3	713.3	217.01	4.287			
23,600.0	9,747.1	22,473.8	8,957.2	108.9	105.5	-31.43	-13,484.6	-742.3	930.2	712.6	217.63	4.274			
23,655.0	9,747.1	22,528.8	8,957.3	109.3	105.9	-31.43	-13,539.6	-742.8	930.2	711.7	218.47	4.258			
23,700.0	9,747.1	22,573.8	8,957.4	109.6	106.3	-31.43	-13,584.6	-743.2	930.1	711.0	219.17	4.244			
23,750.0	9,747.2	22,623.8	8,957.4	110.0	106.7	-31.43	-13,634.6	-743.6	930.1	710.2	219.94	4.229			
23,800.0	9,747.2	22,673.8	8,957.5	110.4	107.0	-31.43	-13,684.6	-744.1	930.0	709.3	220.70	4.214			
23,845.0	9,747.2	22,718.8	8,957.6	110.7	107.4	-31.43	-13,729.6	-744.5	930.0	708.6	221.40	4.201			
23,900.0	9,747.2	22,773.8	8,957.7	111.1	107.8	-31.44	-13,784.5	-745.0	929.9	707.7	222.24	4.184			
23,940.0	9,747.3	22,813.8	8,957.8	111.4	108.1	-31.44	-13,824.5	-745.3	929.9	707.1	222.86	4.173			
24,000.0	9,747.3	22,873.8	8,957.9	111.9	108.5	-31.44	-13,884.5	-745.9	929.9	706.1	223.78	4.155			
24,035.0	9,747.3	22,908.8	8,957.9	112.1	108.8	-31.44	-13,919.5	-746.2	929.8	705.5	224.32	4.145			
24,100.0	9,747.3	22,973.8	8,958.0	112.6	109.3	-31.44	-13,984.5	-746.7	929.8	704.4	225.33	4.126			
24,130.0	9,747.4	23,003.8	8,958.1	112.8	109.5	-31.44	-14,014.5	-747.0	929.7	703.9	225.79	4.118			
24,200.0	9,747.4	23,073.8	8,958.2	113.3	110.0	-31.45	-14,084.5	-747.6	929.7	702.8	226.87	4.098			
24,225.0	9,747.4	23,098.8	8,958.2	113.5	110.2	-31.45	-14,109.5	-747.9	929.6	702.4	227.25	4.091			
24,300.0	9,747.5	23,173.8	8,958.3	114.1	110.8	-31.45	-14,184.5	-748.5	929.6	701.2	228.41	4.070			
24,320.0	9,747.5	23,193.8	8,958.4	114.2	110.9	-31.45	-14,204.5	-748.7	929.6	700.8	228.71	4.064			
24,400.0	9,747.5	23,273.8	8,958.5	114.8	111.5	-31.45	-14,284.5	-749.4	929.5	699.5	229.95	4.042			
24,415.0	9,747.5	23,288.8	8,958.5	114.9	111.7	-31.45	-14,299.5	-749.5	929.5	699.3	230.18	4.038			
24,500.0	9,747.6	23,373.8	8,958.7	115.5	112.3	-31.46	-14,384.5	-750.3	929.4	697.9	231.49	4.015			
24,510.0	9,747.6	23,383.8	8,958.7	115.6	112.4	-31.46	-14,394.5	-750.4	929.4	697.7	231.64	4.012			
24,600.0	9,747.6	23,473.8	8,958.8	116.3	113.0	-31.46	-14,484.5	-751.2	929.3	696.3	233.03	3.988			
24,605.0	9,747.6	23,478.8	8,958.8	116.3	113.1	-31.46	-14,489.5	-751.2	929.3	696.2	233.11	3.987			
24,700.0	9,747.7	23,573.8	8,959.0	117.0	113.8	-31.46	-14,584.5	-752.1	929.2	694.6	234.57	3.961			
24,795.0	9,747.7	23,668.8	8,959.1	117.7	114.5	-31.47	-14,679.5	-752.9	929.1	693.1	236.04	3.936			

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 #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #806H	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 #709H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8448-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Rule Assigned:		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	
24,800.0	9,747.7	23,673.8	8,959.1	117.8	114.5	-31.47	-14,684.5	-753.0	929.1	693.0	236.11	3.935
24,890.0	9,747.8	23,763.8	8,959.3	118.4	115.2	-31.47	-14,774.5	-753.8	929.0	691.5	237.50	3.912
24,900.0	9,747.8	23,773.8	8,959.3	118.5	115.3	-31.47	-14,784.5	-753.8	929.0	691.4	237.66	3.909
24,985.0	9,747.8	23,858.8	8,959.4	119.1	115.9	-31.47	-14,869.5	-754.6	928.9	690.0	238.97	3.887
25,000.0	9,747.8	23,873.8	8,959.5	119.3	116.1	-31.47	-14,884.5	-754.7	928.9	689.7	239.20	3.884
25,080.0	9,747.9	23,953.8	8,959.6	119.8	116.7	-31.48	-14,964.5	-755.4	928.9	688.4	240.43	3.863
25,100.0	9,747.9	23,973.8	8,959.6	120.0	116.8	-31.48	-14,984.5	-755.6	928.8	688.1	240.74	3.858
25,175.0	9,747.9	24,048.8	8,959.8	120.6	117.4	-31.48	-15,059.5	-756.3	928.8	686.9	241.90	3.839
25,200.7	9,747.9	24,074.5	8,959.8	120.7	117.6	-31.48	-15,085.2	-756.5	928.7	686.4	242.29	3.833
25,270.0	9,748.0	24,143.8	8,959.9	121.3	118.1	-31.48	-15,154.5	-757.1	928.7	685.3	243.36	3.816
25,300.0	9,748.0	24,173.8	8,960.0	121.5	118.3	-31.49	-15,184.5	-757.4	928.7	684.8	243.83	3.809
25,328.8	9,748.0	24,202.6	8,960.0	121.7	118.5	-31.49	-15,213.3	-757.7	928.6	684.4	244.27	3.802
25,330.7	9,748.0	24,202.6	8,960.0	121.7	118.5	-31.49	-15,213.3	-757.7	928.6	684.3	244.28	3.802

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 #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #806H	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 #710H - OWB - PWP1														Offset Site Error: 0.0 usft	
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8487-r.5 MWD+IFR1+MS						Rule Assigned:						Offset Well Error: 3.0 usft	
Measured	Reference	Offset		Semi Major Axis		Offset Wellbore Centre			Distance		Rule Assigned:		Warning		
Depth	Vertical	Measured	Vertical	Reference	Offset	Highside	+N/-S	+E/-W	Between	Between	Minimum	Separation			
(usft)	Depth	Depth	Depth	(usft)	(usft)	Toolface	(usft)	(usft)	Centres	Ellipses	Separation	Factor			
	(usft)	(usft)	(usft)			(°)			(usft)	(usft)	(usft)				
0.0	0.0	4.3	4.3	3.0	3.0	179.85	-150.0	0.4	150.0						
95.0	95.0	99.3	99.3	3.0	3.0	179.85	-150.0	0.4	150.0	144.0	6.04	24.842			
100.0	100.0	104.3	104.3	3.0	3.0	179.85	-150.0	0.4	150.0	144.0	6.04	24.816			
190.0	190.0	194.3	194.3	3.1	3.1	179.85	-150.0	0.4	150.0	143.7	6.27	23.940			
200.0	200.0	204.3	204.3	3.1	3.2	179.85	-150.0	0.4	150.0	143.7	6.30	23.817			
285.0	285.0	289.3	289.3	3.3	3.3	179.85	-150.0	0.4	150.0	143.5	6.51	23.051			
300.0	300.0	304.3	304.3	3.3	3.3	179.85	-150.0	0.4	150.0	143.5	6.55	22.907			
380.0	380.0	384.3	384.3	3.4	3.4	179.85	-150.0	0.4	150.0	143.3	6.74	22.241			
400.0	400.0	404.3	404.3	3.4	3.4	179.85	-150.0	0.4	150.0	143.2	6.80	22.070			
475.0	475.0	479.3	479.3	3.5	3.5	179.85	-150.0	0.4	150.0	143.0	6.98	21.492			
500.0	500.0	504.3	504.3	3.5	3.5	179.85	-150.0	0.4	150.0	143.0	7.04	21.298			
570.0	570.0	574.3	574.3	3.6	3.6	179.85	-150.0	0.4	150.0	142.8	7.21	20.796			
600.0	600.0	604.3	604.3	3.6	3.6	179.85	-150.0	0.4	150.0	142.7	7.29	20.581			
665.0	665.0	669.3	669.3	3.7	3.7	179.85	-150.0	0.4	150.0	142.6	7.45	20.148			
700.0	700.0	704.3	704.3	3.8	3.8	179.85	-150.0	0.4	150.0	142.5	7.53	19.915			
760.0	760.0	764.3	764.3	3.8	3.8	179.85	-150.0	0.4	150.0	142.3	7.68	19.541			
800.0	800.0	804.3	804.3	3.9	3.9	179.85	-150.0	0.4	150.0	142.2	7.77	19.294			
855.0	855.0	859.3	859.3	4.0	4.0	179.85	-150.0	0.4	150.0	142.1	7.91	18.973			
900.0	900.0	904.3	904.3	4.0	4.0	179.85	-150.0	0.4	150.0	142.0	8.02	18.713			
950.0	950.0	954.3	954.3	4.1	4.1	179.85	-150.0	0.4	150.0	141.9	8.13	18.439			
1,000.0	1,000.0	1,004.3	1,004.3	4.1	4.1	179.85	-150.0	0.4	150.0	141.7	8.26	18.168			
1,045.0	1,045.0	1,049.3	1,049.3	4.2	4.2	179.85	-150.0	0.4	150.0	141.6	8.36	17.936			
1,100.0	1,100.0	1,104.3	1,104.3	4.2	4.3	179.85	-150.0	0.4	150.0	141.5	8.50	17.656			
1,140.0	1,140.0	1,144.3	1,144.3	4.3	4.3	179.85	-150.0	0.4	150.0	141.4	8.59	17.461			
1,200.0	1,200.0	1,204.3	1,204.3	4.4	4.4	179.85	-150.0	0.4	150.0	141.3	8.73	17.174			
1,235.0	1,235.0	1,239.3	1,239.3	4.4	4.4	179.85	-150.0	0.4	150.0	141.2	8.82	17.013			
1,300.0	1,300.0	1,304.3	1,304.3	4.5	4.5	179.85	-150.0	0.4	150.0	141.0	8.97	16.718			
1,330.0	1,330.0	1,334.3	1,334.3	4.5	4.5	179.85	-150.0	0.4	150.0	141.0	9.04	16.588			
1,400.0	1,400.0	1,404.3	1,404.3	4.6	4.6	179.85	-150.0	0.4	150.0	140.8	9.21	16.288			
1,425.0	1,425.0	1,429.3	1,429.3	4.6	4.6	179.85	-150.0	0.4	150.0	140.7	9.27	16.185			
1,500.0	1,500.0	1,504.4	1,504.4	4.7	4.7	179.85	-150.0	0.4	150.0	140.6	9.45	15.881			
1,514.7	1,514.7	1,519.3	1,519.3	4.7	4.7	-113.89	-150.0	0.3	150.0	140.5	9.48	15.826	CC		
1,520.0	1,520.0	1,524.7	1,524.7	4.7	4.7	-113.89	-150.0	0.3	150.0	140.5	9.49	15.807			
1,600.0	1,600.0	1,606.0	1,606.0	4.8	4.8	-113.80	-149.4	-1.5	150.1	140.4	9.67	15.524			
1,615.0	1,615.0	1,621.3	1,621.2	4.9	4.9	-113.78	-149.2	-2.0	150.2	140.4	9.72	15.449	ES		
1,700.0	1,699.8	1,707.6	1,707.5	5.0	5.0	-113.63	-147.7	-6.8	150.5	140.5	10.00	15.052			
1,710.0	1,709.8	1,717.8	1,717.6	5.1	5.1	-113.61	-147.5	-7.5	150.6	140.6	10.03	15.009			
1,800.0	1,799.5	1,809.3	1,808.7	5.3	5.3	-113.39	-144.9	-15.5	151.3	141.0	10.33	14.644			
1,805.0	1,804.4	1,814.3	1,813.7	5.3	5.3	-113.38	-144.7	-16.0	151.3	141.0	10.35	14.625			
1,900.0	1,898.7	1,910.8	1,909.4	5.6	5.6	-113.07	-141.0	-27.6	152.4	141.7	10.66	14.289			
1,995.0	1,992.5	2,007.3	2,004.7	5.9	5.9	-112.71	-136.3	-42.3	153.7	142.7	10.98	13.993			
2,000.0	1,997.5	2,012.4	2,009.7	5.9	5.9	-112.69	-136.0	-43.1	153.8	142.8	11.00	13.978			
2,090.0	2,085.8	2,103.8	2,099.4	6.2	6.2	-112.29	-130.6	-60.0	155.3	144.0	11.31	13.729			
2,100.0	2,095.6	2,114.0	2,109.3	6.3	6.3	-112.24	-129.9	-62.0	155.5	144.2	11.35	13.703			
2,185.0	2,178.5	2,200.3	2,193.3	6.6	6.6	-111.82	-123.9	-80.7	157.2	145.6	11.66	13.491			
2,200.0	2,193.0	2,215.2	2,207.8	6.6	6.6	-111.75	-122.8	-84.1	157.6	145.9	11.71	13.457			
2,280.0	2,270.7	2,295.2	2,285.5	6.9	6.9	-111.52	-116.9	-102.5	159.5	147.5	12.00	13.285			
2,300.0	2,290.1	2,315.2	2,304.9	6.9	7.0	-111.47	-115.4	-107.1	160.0	147.9	12.08	13.242			
2,375.0	2,362.9	2,390.2	2,377.6	7.2	7.2	-111.26	-109.9	-124.4	161.7	149.4	12.37	13.079			
2,400.0	2,387.1	2,415.2	2,401.9	7.3	7.3	-111.19	-108.0	-130.2	162.3	149.9	12.46	13.025			
2,470.0	2,455.0	2,485.2	2,469.8	7.5	7.5	-111.00	-102.9	-146.3	164.0	151.3	12.74	12.873			

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 #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #806H	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 #710H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8487-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
2,500.0	2,484.1	2,515.2	2,498.9	7.6	7.6	-110.92	-100.6	-153.2	164.7	151.9	12.86	12.809	
2,565.0	2,547.2	2,580.1	2,561.9	7.8	7.9	-110.74	-95.8	-168.1	166.3	153.1	13.12	12.668	
2,600.0	2,581.2	2,615.1	2,595.9	8.0	8.0	-110.65	-93.3	-176.2	167.1	153.8	13.27	12.594	
2,660.0	2,639.4	2,675.1	2,654.1	8.2	8.2	-110.50	-88.8	-190.0	168.5	155.0	13.52	12.467	
2,700.0	2,678.2	2,715.1	2,692.9	8.3	8.4	-110.40	-85.9	-199.2	169.5	155.8	13.69	12.384	
2,755.0	2,731.6	2,770.1	2,746.2	8.5	8.6	-110.26	-81.8	-211.9	170.8	156.9	13.92	12.269	
2,800.0	2,775.2	2,815.1	2,789.9	8.7	8.8	-110.15	-78.5	-222.2	171.9	157.8	14.11	12.178	
2,850.0	2,823.7	2,865.0	2,838.4	8.9	9.0	-110.03	-74.8	-233.7	173.1	158.7	14.33	12.077	
2,900.0	2,872.3	2,915.0	2,886.9	9.1	9.2	-109.90	-71.1	-245.3	174.3	159.7	14.55	11.978	
2,945.0	2,915.9	2,960.0	2,930.5	9.3	9.4	-109.80	-67.7	-255.6	175.3	160.6	14.75	11.889	
3,000.0	2,969.3	3,015.0	2,983.9	9.5	9.6	-109.67	-63.7	-268.3	176.7	161.7	14.99	11.784	
3,040.0	3,008.1	3,055.0	3,022.7	9.7	9.7	-109.58	-60.7	-277.5	177.6	162.5	15.17	11.708	
3,100.0	3,066.3	3,115.0	3,080.9	9.9	10.0	-109.44	-56.3	-291.3	179.1	163.6	15.44	11.596	
3,135.0	3,100.3	3,150.0	3,114.8	10.1	10.1	-109.36	-53.7	-299.4	179.9	164.3	15.60	11.532	
3,200.0	3,163.4	3,214.9	3,177.9	10.4	10.4	-109.22	-48.9	-314.3	181.5	165.6	15.90	11.416	
3,230.0	3,192.5	3,244.9	3,207.0	10.5	10.5	-109.15	-46.7	-321.2	182.2	166.2	16.03	11.363	
3,300.0	3,260.4	3,314.9	3,274.9	10.8	10.8	-109.00	-41.5	-337.3	183.9	167.5	16.36	11.242	
3,325.0	3,284.6	3,339.9	3,299.1	10.9	10.9	-108.95	-39.6	-343.1	184.5	168.0	16.47	11.199	
3,400.0	3,357.4	3,414.9	3,371.9	11.2	11.3	-108.79	-34.1	-360.4	186.3	169.5	16.82	11.075	
3,420.0	3,376.8	3,434.9	3,391.3	11.3	11.4	-108.75	-32.6	-365.0	186.8	169.8	16.91	11.042	
3,500.0	3,454.4	3,514.8	3,468.9	11.7	11.7	-108.58	-26.7	-383.4	188.7	171.4	17.29	10.914	
3,515.0	3,469.0	3,529.8	3,483.4	11.7	11.8	-108.55	-25.6	-386.8	189.1	171.7	17.36	10.891	
3,600.0	3,551.5	3,614.8	3,565.9	12.1	12.1	-108.38	-19.3	-406.4	191.1	173.3	17.76	10.760	
3,610.0	3,561.2	3,624.8	3,575.6	12.1	12.2	-108.36	-18.5	-408.7	191.3	173.5	17.81	10.745	
3,700.0	3,648.5	3,714.8	3,662.9	12.5	12.6	-108.18	-11.9	-429.4	193.5	175.3	18.24	10.612	
3,705.0	3,653.4	3,719.8	3,667.7	12.6	12.6	-108.17	-11.5	-430.6	193.6	175.4	18.26	10.605	
3,800.0	3,745.5	3,814.8	3,759.9	13.0	13.0	-107.99	-4.5	-452.4	195.9	177.2	18.71	10.471	
3,895.0	3,837.7	3,909.7	3,852.0	13.4	13.5	-107.81	2.5	-474.3	198.2	179.1	19.17	10.341	
3,900.0	3,842.6	3,914.7	3,866.9	13.4	13.5	-107.80	2.9	-475.4	198.4	179.2	19.19	10.335	
3,990.0	3,929.9	4,004.7	3,944.2	13.8	13.9	-107.64	9.6	-496.2	200.5	180.9	19.63	10.217	
4,000.0	3,939.6	4,014.7	3,953.9	13.9	13.9	-107.62	10.3	-498.5	200.8	181.1	19.68	10.204	
4,085.0	4,022.1	4,099.7	4,036.3	14.3	14.3	-107.47	16.6	-518.0	202.8	182.8	20.09	10.097	
4,100.0	4,036.6	4,114.7	4,050.9	14.3	14.4	-107.44	17.7	-521.5	203.2	183.0	20.16	10.079	
4,180.0	4,114.2	4,194.6	4,128.5	14.7	14.8	-107.31	23.6	-539.9	205.1	184.6	20.55	9.982	
4,200.0	4,133.6	4,214.6	4,147.9	14.8	14.9	-107.27	25.1	-544.5	205.6	185.0	20.65	9.959	
4,275.0	4,206.4	4,289.6	4,220.6	15.1	15.2	-107.14	30.6	-561.8	207.4	186.4	21.01	9.872	
4,300.0	4,230.7	4,314.6	4,244.9	15.3	15.3	-107.10	32.5	-567.5	208.1	186.9	21.14	9.843	
4,370.0	4,298.6	4,384.6	4,312.8	15.6	15.6	-106.99	37.7	-583.6	209.8	188.3	21.48	9.766	
4,400.0	4,327.7	4,414.6	4,341.9	15.7	15.8	-106.94	39.9	-590.5	210.5	188.9	21.63	9.733	
4,465.0	4,390.8	4,479.5	4,404.9	16.0	16.1	-106.83	44.7	-605.5	212.1	190.1	21.95	9.663	
4,500.0	4,424.7	4,514.5	4,438.9	16.2	16.2	-106.77	47.3	-613.6	212.9	190.8	22.12	9.627	
4,560.0	4,483.0	4,574.5	4,497.1	16.5	16.5	-106.68	51.7	-627.4	214.4	192.0	22.41	9.565	
4,600.0	4,521.8	4,614.5	4,535.9	16.7	16.7	-106.62	54.7	-636.6	215.3	192.7	22.61	9.524	
4,655.0	4,575.1	4,669.5	4,589.2	16.9	17.0	-106.53	58.8	-649.2	216.7	193.8	22.88	9.470	
4,700.0	4,618.8	4,714.5	4,632.9	17.1	17.2	-106.46	62.1	-659.6	217.8	194.7	23.10	9.426	
4,750.0	4,667.3	4,764.5	4,681.4	17.4	17.4	-106.38	65.8	-671.1	219.0	195.6	23.35	9.378	
4,800.0	4,715.8	4,814.4	4,729.9	17.6	17.6	-106.31	69.5	-682.6	220.2	196.6	23.60	9.332	
4,845.0	4,759.5	4,859.4	4,773.5	17.8	17.9	-106.24	72.8	-693.0	221.3	197.5	23.82	9.290	
4,900.0	4,812.9	4,914.4	4,826.9	18.1	18.1	-106.16	76.9	-705.6	222.7	198.6	24.09	9.241	
4,940.0	4,851.7	4,954.4	4,865.7	18.2	18.3	-106.10	79.8	-714.8	223.6	199.3	24.29	9.205	
5,000.0	4,909.9	5,014.4	4,923.9	18.5	18.6	-106.02	84.3	-728.7	225.1	200.5	24.59	9.153	

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 #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #806H	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 #710H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8487-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
5,035.0	4,943.8	5,049.4	4,957.8	18.7	18.8	-105.97	86.9	-736.7	225.9	201.2	24.77	9.124	
5,100.0	5,006.9	5,114.3	5,020.9	19.0	19.1	-105.88	91.7	-751.7	227.5	202.4	25.09	9.069	
5,130.0	5,036.0	5,144.3	5,050.0	19.1	19.2	-105.83	93.9	-758.6	228.3	203.0	25.24	9.044	
5,200.0	5,103.9	5,214.3	5,117.9	19.5	19.5	-105.74	99.1	-774.7	230.0	204.4	25.59	8.988	
5,225.0	5,128.2	5,239.3	5,142.1	19.6	19.7	-105.70	100.9	-780.4	230.6	204.9	25.71	8.968	
5,300.0	5,201.0	5,314.3	5,214.9	19.9	20.0	-105.60	106.5	-797.7	232.4	206.3	26.09	8.910	
5,320.0	5,220.4	5,334.3	5,234.3	20.0	20.1	-105.57	107.9	-802.3	232.9	206.7	26.19	8.894	
5,400.0	5,298.0	5,414.2	5,311.9	20.4	20.5	-105.47	113.9	-820.7	234.9	208.3	26.59	8.834	
5,415.0	5,312.6	5,429.2	5,326.4	20.5	20.6	-105.45	115.0	-824.2	235.2	208.6	26.66	8.823	
5,500.0	5,395.0	5,514.2	5,408.9	20.9	21.0	-105.34	121.3	-843.7	237.3	210.2	27.09	8.761	
5,510.0	5,404.7	5,524.2	5,418.6	20.9	21.0	-105.32	122.0	-846.0	237.6	210.4	27.14	8.754	
5,600.0	5,492.1	5,614.2	5,505.9	21.4	21.4	-105.21	128.7	-866.8	239.8	212.2	27.59	8.691	
5,605.0	5,496.9	5,619.2	5,510.7	21.4	21.5	-105.20	129.0	-867.9	239.9	212.3	27.61	8.688	
5,700.0	5,589.1	5,714.2	5,602.9	21.8	21.9	-105.08	136.0	-889.8	242.2	214.1	28.09	8.623	
5,795.0	5,681.3	5,809.1	5,695.0	22.3	22.4	-104.97	143.1	-911.6	244.5	216.0	28.56	8.561	
5,800.0	5,686.1	5,814.1	5,699.9	22.3	22.4	-104.96	143.4	-912.8	244.7	216.1	28.59	8.558	
5,890.0	5,773.5	5,904.1	5,787.2	22.8	22.8	-104.85	150.1	-933.5	246.9	217.8	29.04	8.500	
5,900.0	5,783.2	5,914.1	5,796.9	22.8	22.9	-104.84	150.8	-935.8	247.1	218.0	29.09	8.494	
5,985.0	5,865.6	5,999.1	5,879.3	23.2	23.3	-104.74	157.1	-955.4	249.2	219.7	29.52	8.442	
6,000.0	5,880.2	6,014.1	5,893.9	23.3	23.3	-104.72	158.2	-958.8	249.6	220.0	29.59	8.433	
6,080.0	5,957.8	6,094.0	5,971.5	23.7	23.7	-104.63	164.2	-977.3	251.5	221.5	30.00	8.385	
6,100.0	5,977.2	6,114.0	5,990.9	23.8	23.8	-104.61	165.6	-981.9	252.0	221.9	30.10	8.373	
6,175.0	6,050.0	6,189.0	6,063.6	24.1	24.2	-104.52	171.2	-999.1	253.8	223.4	30.47	8.330	
6,200.0	6,074.2	6,214.0	6,087.9	24.2	24.3	-104.50	173.0	-1,004.9	254.5	223.9	30.60	8.316	
6,270.0	6,142.2	6,284.0	6,155.8	24.6	24.6	-104.42	178.2	-1,021.0	256.2	225.2	30.95	8.277	
6,300.0	6,171.3	6,313.8	6,184.7	24.7	24.8	-104.39	180.4	-1,027.8	256.9	225.8	31.10	8.261	
6,365.0	6,234.3	6,377.9	6,247.2	25.0	25.1	-104.55	184.8	-1,041.6	258.7	227.2	31.46	8.221	
6,400.0	6,268.3	6,412.4	6,280.9	25.2	25.3	-104.76	187.1	-1,048.5	259.7	228.0	31.68	8.198	
6,460.0	6,326.5	6,471.4	6,338.8	25.5	25.6	-105.33	190.5	-1,059.4	261.7	229.6	32.08	8.155	
6,479.0	6,345.0	6,490.1	6,357.2	25.6	25.6	-105.56	191.6	-1,062.6	262.3	230.1	32.23	8.140	
6,500.0	6,365.3	6,510.7	6,377.5	25.7	25.7	-105.84	192.7	-1,066.0	263.1	230.7	32.38	8.125	
6,555.0	6,418.9	6,564.7	6,430.7	25.9	26.0	-106.58	195.3	-1,074.2	265.0	232.2	32.78	8.082	
6,600.0	6,462.9	6,608.8	6,474.4	26.2	26.2	-107.17	197.3	-1,080.3	266.5	233.4	33.12	8.046	
6,650.0	6,512.0	6,657.7	6,523.0	26.4	26.4	-107.83	199.2	-1,086.2	268.1	234.6	33.47	8.009	
6,700.0	6,561.2	6,706.6	6,571.6	26.6	26.6	-108.47	200.8	-1,091.4	269.7	235.9	33.83	7.971	
6,745.0	6,605.7	6,750.6	6,615.3	26.8	26.8	-109.04	202.1	-1,095.3	271.0	236.9	34.14	7.940	
6,800.0	6,660.1	6,804.3	6,668.9	27.1	27.0	-109.73	203.4	-1,099.3	272.6	238.1	34.51	7.900	
6,840.0	6,699.8	6,843.3	6,707.8	27.3	27.1	-110.23	204.1	-1,101.5	273.8	239.0	34.77	7.874	
6,900.0	6,759.5	6,901.8	6,766.2	27.5	27.3	-110.97	204.9	-1,104.0	275.4	240.2	35.16	7.832	
6,935.0	6,794.3	6,935.8	6,800.2	27.7	27.4	-111.39	205.2	-1,104.9	276.3	240.9	35.37	7.810	
7,000.0	6,859.1	6,999.6	6,864.0	27.9	27.5	-112.19	205.4	-1,105.6	277.8	242.1	35.78	7.765	
7,030.0	6,889.1	7,029.0	6,893.4	28.0	27.5	-112.52	205.4	-1,105.6	278.5	242.6	35.94	7.750	
7,100.0	6,959.0	7,098.9	6,963.3	28.3	27.5	-113.06	205.4	-1,105.6	279.6	243.3	36.25	7.712	
7,125.0	6,984.0	7,123.9	6,988.3	28.3	27.5	-113.18	205.4	-1,105.6	279.8	243.5	36.33	7.702	
7,179.0	7,038.0	7,177.9	7,042.3	28.4	27.6	-119.53	205.4	-1,105.6	280.0	243.6	36.44	7.684	
7,200.0	7,059.0	7,198.9	7,063.3	28.4	27.6	-119.53	205.4	-1,105.6	280.0	243.6	36.46	7.681	
7,220.0	7,079.0	7,218.9	7,083.3	28.4	27.6	-119.53	205.4	-1,105.6	280.0	243.5	36.48	7.676	
7,300.0	7,159.0	7,298.9	7,163.3	28.4	27.6	-119.53	205.4	-1,105.6	280.0	243.4	36.56	7.658	
7,315.0	7,174.0	7,313.9	7,178.3	28.4	27.6	-119.53	205.4	-1,105.6	280.0	243.4	36.58	7.655	
7,400.0	7,259.0	7,398.9	7,263.3	28.4	27.6	-119.53	205.4	-1,105.6	280.0	243.3	36.67	7.635	
7,410.0	7,269.0	7,408.9	7,273.3	28.4	27.6	-119.53	205.4	-1,105.6	280.0	243.3	36.68	7.633	

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 #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #806H	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 #710H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8487-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	
7,500.0	7,359.0	7,498.9	7,363.3	28.5	27.7	-179.53	205.4	-1,105.6	280.0	243.2	36.78	7.613		
7,505.0	7,364.0	7,503.9	7,368.3	28.5	27.7	-179.53	205.4	-1,105.6	280.0	243.2	36.79	7.612		
7,600.0	7,459.0	7,598.9	7,463.3	28.5	27.7	-179.53	205.4	-1,105.6	280.0	243.1	36.89	7.590		
7,695.0	7,554.0	7,693.9	7,558.3	28.5	27.7	-179.53	205.4	-1,105.6	280.0	243.0	37.00	7.569		
7,700.0	7,559.0	7,698.9	7,563.3	28.5	27.7	-179.53	205.4	-1,105.6	280.0	243.0	37.00	7.568		
7,790.0	7,649.0	7,788.9	7,653.3	28.6	27.8	-179.53	205.4	-1,105.6	280.0	242.9	37.10	7.548		
7,800.0	7,659.0	7,798.9	7,663.3	28.6	27.8	-179.53	205.4	-1,105.6	280.0	242.9	37.11	7.545		
7,885.0	7,744.0	7,883.9	7,748.3	28.6	27.8	-179.53	205.4	-1,105.6	280.0	242.8	37.20	7.526		
7,900.0	7,759.0	7,898.9	7,763.3	28.6	27.8	-179.53	205.4	-1,105.6	280.0	242.8	37.22	7.523		
7,980.0	7,839.0	7,978.9	7,843.3	28.6	27.8	-179.53	205.4	-1,105.6	280.0	242.7	37.31	7.505		
8,000.0	7,859.0	7,998.9	7,863.3	28.6	27.8	-179.53	205.4	-1,105.6	280.0	242.7	37.33	7.501		
8,075.0	7,934.0	8,073.9	7,938.3	28.7	27.8	-179.53	205.4	-1,105.6	280.0	242.6	37.41	7.484		
8,100.0	7,959.0	8,098.9	7,963.3	28.7	27.9	-179.53	205.4	-1,105.6	280.0	242.6	37.44	7.478		
8,170.0	8,029.0	8,168.9	8,033.3	28.7	27.9	-179.53	205.4	-1,105.6	280.0	242.5	37.52	7.463		
8,200.0	8,059.0	8,198.9	8,063.3	28.7	27.9	-179.53	205.4	-1,105.6	280.0	242.5	37.55	7.456		
8,265.0	8,124.0	8,263.9	8,128.3	28.7	27.9	-179.53	205.4	-1,105.6	280.0	242.4	37.63	7.442		
8,300.0	8,159.0	8,298.9	8,163.3	28.7	27.9	-179.53	205.4	-1,105.6	280.0	242.3	37.67	7.434		
8,360.0	8,219.0	8,358.9	8,223.3	28.8	27.9	-179.53	205.4	-1,105.6	280.0	242.3	37.73	7.421		
8,400.0	8,259.0	8,398.9	8,263.3	28.8	28.0	-179.53	205.4	-1,105.6	280.0	242.2	37.78	7.412		
8,455.0	8,314.0	8,453.9	8,318.3	28.8	28.0	-179.53	205.4	-1,105.6	280.0	242.2	37.83	7.401		
8,456.9	8,315.9	8,455.8	8,320.2	28.8	28.0	-179.53	205.4	-1,105.6	280.0	242.2	37.83	7.401		
8,500.0	8,359.0	8,494.9	8,359.3	28.8	28.0	-179.53	205.3	-1,105.6	280.1	242.3	37.79	7.412		
8,550.0	8,409.0	8,528.4	8,392.8	28.8	28.0	-179.53	203.9	-1,105.6	282.3	244.8	37.49	7.529		
8,600.0	8,459.0	8,561.6	8,425.8	28.8	28.0	-179.53	200.5	-1,105.6	287.4	250.2	37.17	7.731		
8,645.0	8,504.0	8,591.1	8,454.9	28.8	28.0	-179.53	195.9	-1,105.7	294.4	257.5	36.87	7.985		
8,700.0	8,559.0	8,626.4	8,489.4	28.9	28.0	-179.53	188.4	-1,105.8	306.0	269.5	36.48	8.389		
8,740.0	8,599.0	8,650.0	8,512.2	28.9	28.0	-179.53	182.3	-1,105.8	316.5	280.4	36.16	8.754		
8,800.0	8,659.0	8,687.7	8,548.0	28.9	28.0	-179.53	170.5	-1,105.9	335.4	299.6	35.78	9.372		
8,835.0	8,694.0	8,700.0	8,559.5	28.9	28.0	-179.52	166.1	-1,105.9	348.1	312.8	35.34	9.850		
8,900.0	8,759.0	8,750.0	8,605.2	28.9	28.0	-179.52	145.9	-1,106.1	374.5	339.2	35.28	10.615		
8,930.0	8,789.0	8,760.7	8,614.8	28.9	28.0	-179.52	141.1	-1,106.2	387.9	352.9	34.98	11.087		
9,000.0	8,859.0	8,800.0	8,649.0	29.0	28.0	-179.52	121.8	-1,106.3	422.0	387.3	34.70	12.161		
9,025.0	8,884.0	8,800.0	8,649.0	29.0	28.0	-179.52	121.8	-1,106.3	435.3	400.9	34.36	12.668		
9,100.0	8,959.0	8,850.0	8,690.5	29.0	28.1	-179.52	94.0	-1,106.6	477.1	442.7	34.36	13.885		
9,120.0	8,979.0	8,850.0	8,690.5	29.0	28.1	-179.52	94.0	-1,106.6	488.8	454.6	34.16	14.311		
9,200.0	9,059.0	8,885.3	8,718.3	29.0	28.1	-179.52	72.2	-1,106.8	538.3	504.3	34.00	15.832		
9,215.0	9,074.0	8,900.0	8,729.5	29.0	28.1	-179.52	62.7	-1,106.9	548.1	514.0	34.07	16.086		
9,308.0	9,167.0	8,925.5	8,748.2	29.1	28.1	-179.52	45.4	-1,107.0	610.4	576.7	33.75	18.087		
9,310.0	9,169.0	8,926.1	8,748.7	29.1	28.1	-0.02	44.9	-1,107.0	611.8	578.1	33.75	18.128		
9,350.0	9,209.0	8,950.0	8,765.5	29.1	28.1	-0.02	28.0	-1,107.2	639.0	605.1	33.83	18.889		
9,400.0	9,258.6	8,950.0	8,765.5	29.1	28.1	-0.02	28.0	-1,107.2	670.8	637.1	33.67	19.921		
9,405.0	9,263.5	8,950.0	8,765.5	29.1	28.1	-0.02	28.0	-1,107.2	673.9	640.2	33.66	20.021		
9,450.0	9,307.6	8,976.6	8,783.4	29.1	28.1	-0.02	8.4	-1,107.4	700.3	666.5	33.76	20.741		
9,500.0	9,355.4	9,000.0	8,798.4	29.1	28.1	-0.02	-9.6	-1,107.5	727.7	693.9	33.84	21.504		
9,550.0	9,401.9	9,000.0	8,798.4	29.1	28.1	-0.02	-9.6	-1,107.5	753.1	719.3	33.80	22.282		
9,595.0	9,442.2	9,031.2	8,817.2	29.1	28.1	-0.02	-34.5	-1,107.7	773.3	739.3	33.95	22.774		
9,600.0	9,446.5	9,033.1	8,818.4	29.1	28.1	-0.01	-36.0	-1,107.7	775.5	741.5	33.96	22.831		
9,650.0	9,489.1	9,050.0	8,827.9	29.2	28.1	-0.01	-49.9	-1,107.9	795.7	761.7	34.07	23.359		
9,690.0	9,521.3	9,067.9	8,837.6	29.2	28.2	-0.01	-65.0	-1,108.0	810.2	776.0	34.18	23.702		
9,700.0	9,529.1	9,071.8	8,839.7	29.2	28.2	-0.01	-68.3	-1,108.0	813.5	779.3	34.21	23.780		
9,750.0	9,566.5	9,100.0	8,853.8	29.2	28.2	-0.01	-92.7	-1,108.3	828.9	794.5	34.39	24.102		

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 #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #806H	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 #710H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8487-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Reference	Offset	Highside	Offset Wellbore Centre	Distance	Rule Assigned:	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
9,785.0	9,590.8	9,100.0	8,853.8	29.2	28.2	-0.01	-92.7	-1,108.3	838.0	803.5	34.48	24.306
9,800.0	9,600.7	9,100.0	8,853.8	29.2	28.2	-0.01	-92.7	-1,108.3	841.7	807.2	34.52	24.381
9,850.0	9,631.7	9,130.8	8,867.8	29.2	28.2	-0.01	-120.1	-1,108.5	851.7	817.0	34.75	24.510
9,880.0	9,648.6	9,150.0	8,875.8	29.3	28.2	-0.01	-137.6	-1,108.6	856.6	821.7	34.89	24.553
9,900.0	9,659.2	9,150.0	8,875.8	29.3	28.2	-0.01	-137.6	-1,108.6	859.3	824.3	34.97	24.571
9,950.0	9,682.9	9,170.5	8,883.7	29.3	28.2	-0.01	-156.5	-1,108.8	864.2	829.0	35.22	24.541
9,975.0	9,693.3	9,180.4	8,887.3	29.3	28.2	-0.01	-165.8	-1,108.9	865.7	830.4	35.34	24.494
10,000.0	9,702.6	9,200.0	8,893.9	29.3	28.2	-0.01	-184.2	-1,109.1	866.7	831.2	35.48	24.429
10,050.0	9,718.3	9,200.0	8,893.9	29.4	28.2	-0.01	-184.2	-1,109.1	866.4	830.7	35.77	24.226
10,070.0	9,723.5	9,218.2	8,899.4	29.4	28.3	-0.01	-201.6	-1,109.2	865.4	829.6	35.88	24.123
10,100.0	9,729.8	9,230.2	8,902.8	29.4	28.3	-0.01	-213.0	-1,109.3	863.4	827.3	36.06	23.945
10,150.0	9,737.1	9,250.0	8,907.8	29.5	28.3	-0.01	-232.2	-1,109.5	857.8	821.5	36.37	23.588
10,165.0	9,738.4	9,250.0	8,907.8	29.5	28.3	-0.01	-232.2	-1,109.5	855.7	819.3	36.47	23.461
10,200.0	9,739.9	9,269.8	8,912.1	29.5	28.3	-0.01	-251.5	-1,109.7	849.7	813.0	36.69	23.157
10,207.7	9,740.0	9,272.9	8,912.7	29.5	28.3	-0.01	-254.5	-1,109.7	848.2	811.5	36.74	23.088
10,260.0	9,740.0	9,300.0	8,917.5	29.6	28.3	-0.01	-281.2	-1,109.9	838.9	801.9	37.03	22.655
10,300.0	9,740.0	9,300.0	8,917.5	29.6	28.3	-0.01	-281.2	-1,109.9	833.1	795.8	37.32	22.325
10,355.0	9,740.1	9,332.1	8,921.4	29.7	28.4	-0.01	-313.1	-1,110.2	826.7	789.1	37.66	21.953
10,400.0	9,740.1	9,350.0	8,922.8	29.7	28.4	-0.01	-330.9	-1,110.4	823.2	785.2	37.97	21.680
10,450.0	9,740.1	9,371.0	8,923.8	29.8	28.4	-0.01	-351.9	-1,110.6	820.9	782.6	38.32	21.425
10,500.0	9,740.2	9,400.1	8,924.0	29.9	28.4	-0.01	-381.0	-1,110.8	820.4	781.8	38.63	21.239
10,545.0	9,740.2	9,445.1	8,924.1	30.0	28.5	-0.01	-426.0	-1,111.2	820.4	781.5	38.84	21.121
10,600.0	9,740.2	9,500.1	8,924.2	30.1	28.6	-0.01	-481.0	-1,111.7	820.3	781.2	39.10	20.980
10,640.0	9,740.2	9,540.1	8,924.3	30.1	28.6	-0.01	-521.0	-1,112.1	820.2	780.9	39.31	20.866
10,700.0	9,740.3	9,600.1	8,924.4	30.2	28.7	-0.01	-581.0	-1,112.6	820.2	780.5	39.63	20.697
10,735.0	9,740.3	9,635.1	8,924.5	30.3	28.8	-0.01	-616.0	-1,112.9	820.1	780.3	39.83	20.590
10,800.0	9,740.3	9,700.1	8,924.6	30.4	28.9	-0.01	-681.0	-1,113.5	820.0	779.8	40.21	20.394
10,830.0	9,740.3	9,730.1	8,924.6	30.5	28.9	-0.01	-711.0	-1,113.7	820.0	779.6	40.40	20.297
10,900.0	9,740.4	9,800.1	8,924.8	30.6	29.1	-0.01	-781.0	-1,114.4	819.9	779.0	40.84	20.074
10,925.0	9,740.4	9,825.1	8,924.8	30.7	29.1	-0.01	-806.0	-1,114.6	819.9	778.8	41.01	19.989
11,000.0	9,740.4	9,900.1	8,925.0	30.8	29.3	-0.01	-881.0	-1,115.3	819.7	778.2	41.53	19.740
11,020.0	9,740.4	9,920.1	8,925.0	30.9	29.3	-0.01	-901.0	-1,115.4	819.7	778.0	41.67	19.670
11,100.0	9,740.5	10,000.1	8,925.2	31.1	29.5	-0.01	-981.0	-1,116.1	819.6	777.4	42.26	19.395
11,115.0	9,740.5	10,015.1	8,925.2	31.1	29.5	-0.01	-996.0	-1,116.3	819.6	777.2	42.38	19.341
11,200.0	9,740.5	10,100.1	8,925.3	31.3	29.7	-0.01	-1,081.0	-1,117.0	819.5	776.4	43.04	19.041
11,210.0	9,740.5	10,110.1	8,925.4	31.3	29.7	-0.01	-1,091.0	-1,117.1	819.5	776.3	43.12	19.005
11,300.0	9,740.6	10,200.1	8,925.5	31.6	30.0	-0.01	-1,181.0	-1,117.9	819.3	775.5	43.86	18.682
11,305.0	9,740.6	10,205.1	8,925.5	31.6	30.0	-0.01	-1,186.0	-1,118.0	819.3	775.4	43.90	18.664
11,400.0	9,740.6	10,300.1	8,925.7	31.8	30.2	-0.01	-1,281.0	-1,118.8	819.2	774.5	44.72	18.320
11,495.0	9,740.7	10,395.1	8,925.9	32.1	30.5	-0.01	-1,376.0	-1,119.7	819.1	773.5	45.57	17.974
11,500.0	9,740.7	10,400.1	8,925.9	32.1	30.5	-0.01	-1,381.0	-1,119.7	819.1	773.5	45.62	17.956
11,590.0	9,740.7	10,490.1	8,926.1	32.4	30.8	-0.01	-1,471.0	-1,120.5	818.9	772.5	46.46	17.629
11,600.0	9,740.7	10,500.1	8,926.1	32.4	30.8	-0.01	-1,481.0	-1,120.6	818.9	772.4	46.55	17.593
11,685.0	9,740.8	10,585.1	8,926.3	32.7	31.1	-0.01	-1,566.0	-1,121.3	818.8	771.4	47.37	17.285
11,700.0	9,740.8	10,600.1	8,926.3	32.7	31.1	-0.01	-1,581.0	-1,121.5	818.8	771.3	47.52	17.232
11,780.0	9,740.8	10,680.1	8,926.4	33.0	31.4	-0.01	-1,661.0	-1,122.2	818.7	770.4	48.32	16.944
11,800.0	9,740.8	10,700.1	8,926.5	33.1	31.4	-0.01	-1,681.0	-1,122.4	818.7	770.1	48.52	16.874
11,875.0	9,740.9	10,775.1	8,926.6	33.3	31.7	-0.01	-1,756.0	-1,123.0	818.6	769.3	49.29	16.608
11,900.0	9,740.9	10,800.1	8,926.7	33.4	31.8	-0.01	-1,781.0	-1,123.3	818.5	769.0	49.54	16.521
11,970.0	9,740.9	10,870.1	8,926.8	33.7	32.0	-0.01	-1,851.0	-1,123.9	818.4	768.1	50.28	16.276
12,000.0	9,740.9	10,900.1	8,926.9	33.8	32.1	-0.01	-1,881.0	-1,124.2	818.4	767.8	50.60	16.173

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 #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #806H	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 #710H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8487-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	
12,065.0	9,741.0	10,965.1	8,927.0	34.0	32.3	-0.01	-1,946.0	-1,124.7	818.3	767.0	51.31	15.950		
12,100.0	9,741.0	11,000.1	8,927.0	34.1	32.5	-0.01	-1,981.0	-1,125.0	818.3	766.6	51.68	15.832		
12,160.0	9,741.0	11,060.1	8,927.2	34.4	32.7	-0.01	-2,041.0	-1,125.6	818.2	765.8	52.35	15.629		
12,200.0	9,741.1	11,100.1	8,927.2	34.5	32.8	-0.01	-2,081.0	-1,125.9	818.1	765.3	52.79	15.497		
12,255.0	9,741.1	11,155.1	8,927.3	34.7	33.1	-0.01	-2,136.0	-1,126.4	818.0	764.6	53.41	15.315		
12,300.0	9,741.1	11,200.1	8,927.4	34.9	33.2	-0.01	-2,181.0	-1,126.8	818.0	764.1	53.92	15.170		
12,350.0	9,741.1	11,250.1	8,927.5	35.1	33.4	-0.01	-2,231.0	-1,127.3	817.9	763.4	54.50	15.008		
12,400.0	9,741.2	11,300.1	8,927.6	35.3	33.6	-0.01	-2,281.0	-1,127.7	817.8	762.8	55.08	14.850		
12,445.0	9,741.2	11,345.1	8,927.7	35.5	33.8	-0.01	-2,326.0	-1,128.1	817.8	762.2	55.60	14.708		
12,500.0	9,741.2	11,400.1	8,927.8	35.7	34.0	-0.01	-2,381.0	-1,128.6	817.7	761.5	56.25	14.538		
12,540.0	9,741.2	11,440.1	8,927.9	35.9	34.2	-0.01	-2,421.0	-1,129.0	817.7	760.9	56.72	14.415		
12,600.0	9,741.3	11,500.1	8,928.0	36.1	34.5	-0.01	-2,481.0	-1,129.5	817.6	760.1	57.44	14.234		
12,635.0	9,741.3	11,535.1	8,928.1	36.3	34.6	-0.01	-2,516.0	-1,129.8	817.5	759.7	57.86	14.129		
12,700.0	9,741.3	11,600.1	8,928.2	36.6	34.9	-0.01	-2,580.9	-1,130.4	817.4	758.8	58.65	13.938		
12,730.0	9,741.3	11,630.1	8,928.2	36.7	35.0	-0.01	-2,610.9	-1,130.6	817.4	758.4	59.02	13.851		
12,800.0	9,741.4	11,700.1	8,928.4	37.0	35.3	-0.01	-2,680.9	-1,131.3	817.3	757.4	59.87	13.650		
12,825.0	9,741.4	11,725.1	8,928.4	37.1	35.4	-0.01	-2,705.9	-1,131.5	817.3	757.1	60.18	13.579		
12,900.0	9,741.4	11,800.1	8,928.6	37.5	35.8	-0.01	-2,780.9	-1,132.2	817.2	756.1	61.12	13.371		
12,920.0	9,741.4	11,820.1	8,928.6	37.6	35.9	-0.01	-2,800.9	-1,132.3	817.1	755.8	61.37	13.316		
13,000.0	9,741.5	11,900.1	8,928.7	37.9	36.3	-0.01	-2,880.9	-1,133.0	817.0	754.7	62.37	13.099		
13,015.0	9,741.5	11,915.1	8,928.8	38.0	36.3	-0.01	-2,895.9	-1,133.2	817.0	754.5	62.56	13.059		
13,100.0	9,741.5	12,000.1	8,928.9	38.4	36.7	-0.01	-2,980.9	-1,133.9	816.9	753.3	63.64	12.836		
13,110.0	9,741.5	12,010.1	8,929.0	38.5	36.8	-0.01	-2,990.9	-1,134.0	816.9	753.1	63.77	12.810		
13,200.0	9,741.6	12,100.1	8,929.1	38.9	37.2	-0.01	-3,080.9	-1,134.8	816.8	751.8	64.93	12.580		
13,205.0	9,741.6	12,105.1	8,929.1	38.9	37.2	-0.01	-3,085.9	-1,134.9	816.8	751.8	64.99	12.567		
13,300.0	9,741.6	12,200.1	8,929.3	39.4	37.7	-0.01	-3,180.9	-1,135.7	816.6	750.4	66.22	12.332		
13,395.0	9,741.7	12,295.1	8,929.5	39.9	38.2	-0.01	-3,275.9	-1,136.6	816.5	749.0	67.46	12.103		
13,400.0	9,741.7	12,300.1	8,929.5	39.9	38.2	-0.01	-3,280.9	-1,136.6	816.5	749.0	67.53	12.091		
13,490.0	9,741.7	12,390.1	8,929.7	40.3	38.7	-0.01	-3,370.9	-1,137.4	816.4	747.7	68.72	11.880		
13,500.0	9,741.7	12,400.1	8,929.7	40.4	38.7	-0.01	-3,380.9	-1,137.5	816.4	747.5	68.85	11.857		
13,585.0	9,741.8	12,485.1	8,929.8	40.8	39.2	-0.01	-3,465.9	-1,138.2	816.2	746.3	69.98	11.664		
13,600.0	9,741.8	12,500.1	8,929.9	40.9	39.2	-0.01	-3,480.9	-1,138.4	816.2	746.0	70.18	11.631		
13,680.0	9,741.8	12,580.1	8,930.0	41.3	39.7	-0.01	-3,560.9	-1,139.1	816.1	744.9	71.25	11.454		
13,700.0	9,741.8	12,600.1	8,930.1	41.4	39.8	-0.01	-3,580.9	-1,139.3	816.1	744.6	71.52	11.411		
13,775.0	9,741.9	12,675.1	8,930.2	41.8	40.2	-0.01	-3,655.9	-1,139.9	816.0	743.5	72.53	11.251		
13,800.0	9,741.9	12,700.1	8,930.3	42.0	40.3	-0.01	-3,680.9	-1,140.2	815.9	743.1	72.86	11.198		
13,870.0	9,741.9	12,770.1	8,930.4	42.4	40.7	-0.01	-3,750.9	-1,140.8	815.9	742.0	73.81	11.053		
13,900.0	9,742.0	12,800.1	8,930.4	42.5	40.8	-0.01	-3,780.9	-1,141.0	815.8	741.6	74.22	10.992		
13,965.0	9,742.0	12,865.1	8,930.6	42.9	41.2	-0.01	-3,845.9	-1,141.6	815.7	740.6	75.11	10.861		
14,000.0	9,742.0	12,900.1	8,930.6	43.1	41.4	-0.01	-3,880.9	-1,141.9	815.7	740.1	75.59	10.792		
14,060.0	9,742.0	12,960.1	8,930.7	43.4	41.7	-0.01	-3,940.9	-1,142.5	815.6	739.2	76.41	10.674		
14,100.0	9,742.1	13,000.1	8,930.8	43.6	41.9	-0.01	-3,980.9	-1,142.8	815.5	738.6	76.96	10.597		
14,155.0	9,742.1	13,055.1	8,930.9	43.9	42.2	-0.01	-4,035.9	-1,143.3	815.5	737.8	77.72	10.493		
14,200.0	9,742.1	13,100.1	8,931.0	44.2	42.5	-0.01	-4,080.9	-1,143.7	815.4	737.1	78.34	10.409		
14,250.0	9,742.1	13,150.1	8,931.1	44.5	42.8	-0.01	-4,130.9	-1,144.2	815.3	736.3	79.03	10.317		
14,300.0	9,742.2	13,200.1	8,931.2	44.7	43.1	-0.01	-4,180.9	-1,144.6	815.3	735.5	79.72	10.226		
14,345.0	9,742.2	13,245.1	8,931.3	45.0	43.3	-0.01	-4,225.9	-1,145.0	815.2	734.9	80.35	10.145		
14,400.0	9,742.2	13,300.1	8,931.4	45.3	43.6	-0.01	-4,280.9	-1,145.5	815.1	734.0	81.12	10.049		
14,440.0	9,742.2	13,340.1	8,931.5	45.6	43.9	-0.01	-4,320.9	-1,145.8	815.1	733.4	81.68	9.979		
14,500.0	9,742.3	13,400.1	8,931.6	45.9	44.2	-0.01	-4,380.9	-1,146.4	815.0	732.5	82.52	9.877		
14,535.0	9,742.3	13,435.1	8,931.6	46.1	44.4	-0.01	-4,415.9	-1,146.7	815.0	731.9	83.01	9.817		

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 #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #806H	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 #710H - OWB - PWP1														Offset Site Error: 0.0 usft	
Survey Program: Reference		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8487-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		
14,600.0	9,742.3	13,500.1	8,931.8	46.5	44.8	-0.01	-4,480.9	-1,147.3	814.9	730.9	83.92	9.710			
14,630.0	9,742.3	13,530.1	8,931.8	46.7	45.0	-0.01	-4,510.9	-1,147.5	814.8	730.5	84.35	9.660			
14,700.0	9,742.4	13,600.1	8,931.9	47.1	45.4	-0.01	-4,580.9	-1,148.2	814.7	729.4	85.34	9.547			
14,725.0	9,742.4	13,625.1	8,932.0	47.2	45.5	-0.01	-4,605.9	-1,148.4	814.7	729.0	85.69	9.507			
14,800.0	9,742.4	13,700.1	8,932.1	47.7	46.0	-0.01	-4,680.9	-1,149.0	814.6	727.8	86.75	9.390			
14,820.0	9,742.4	13,720.1	8,932.2	47.8	46.1	-0.01	-4,700.9	-1,149.2	814.6	727.5	87.04	9.359			
14,900.0	9,742.5	13,800.1	8,932.3	48.3	46.6	-0.01	-4,780.9	-1,149.9	814.5	726.3	88.18	9.237			
14,915.0	9,742.5	13,815.1	8,932.4	48.4	46.7	-0.01	-4,795.9	-1,150.1	814.4	726.0	88.39	9.214			
15,000.0	9,742.5	13,900.1	8,932.5	48.9	47.2	-0.01	-4,880.9	-1,150.8	814.3	724.7	89.60	9.088			
15,010.0	9,742.5	13,910.1	8,932.5	48.9	47.3	-0.01	-4,890.9	-1,150.9	814.3	724.6	89.75	9.074			
15,100.0	9,742.6	14,000.1	8,932.7	49.5	47.8	-0.01	-4,980.8	-1,151.7	814.2	723.2	91.03	8.944			
15,105.0	9,742.6	14,005.1	8,932.7	49.5	47.8	-0.01	-4,985.8	-1,151.8	814.2	723.1	91.11	8.937			
15,200.0	9,742.6	14,100.1	8,932.9	50.1	48.4	-0.01	-5,080.8	-1,152.6	814.0	721.6	92.47	8.803			
15,295.0	9,742.7	14,195.1	8,933.1	50.7	49.0	-0.01	-5,175.8	-1,153.4	813.9	720.1	93.84	8.674			
15,300.0	9,742.7	14,200.1	8,933.1	50.7	49.0	-0.01	-5,180.8	-1,153.5	813.9	720.0	93.91	8.667			
15,390.0	9,742.7	14,290.1	8,933.3	51.3	49.6	-0.01	-5,270.8	-1,154.3	813.8	718.6	95.21	8.547			
15,400.0	9,742.7	14,300.1	8,933.3	51.3	49.7	-0.01	-5,280.8	-1,154.4	813.8	718.4	95.36	8.534			
15,485.0	9,742.8	14,385.1	8,933.4	51.9	50.2	-0.01	-5,365.8	-1,155.1	813.7	717.1	96.59	8.424			
15,500.0	9,742.8	14,400.1	8,933.5	52.0	50.3	-0.01	-5,380.8	-1,155.3	813.6	716.8	96.80	8.405			
15,580.0	9,742.8	14,480.1	8,933.6	52.5	50.8	-0.01	-5,460.8	-1,156.0	813.5	715.6	97.97	8.304			
15,600.0	9,742.9	14,500.1	8,933.6	52.6	50.9	-0.01	-5,480.8	-1,156.2	813.5	715.2	98.26	8.279			
15,675.0	9,742.9	14,575.1	8,933.8	53.1	51.4	-0.01	-5,555.8	-1,156.8	813.4	714.1	99.35	8.187			
15,700.0	9,742.9	14,600.1	8,933.8	53.2	51.6	-0.01	-5,580.8	-1,157.0	813.4	713.7	99.71	8.157			
15,770.0	9,742.9	14,670.1	8,934.0	53.7	52.0	-0.01	-5,650.8	-1,157.7	813.3	712.5	100.73	8.074			
15,800.0	9,743.0	14,700.1	8,934.0	53.9	52.2	-0.01	-5,680.8	-1,157.9	813.2	712.1	101.17	8.038			
15,865.0	9,743.0	14,765.1	8,934.1	54.3	52.6	-0.01	-5,745.8	-1,158.5	813.1	711.0	102.12	7.962			
15,900.0	9,743.0	14,800.1	8,934.2	54.5	52.8	-0.01	-5,780.8	-1,158.8	813.1	710.5	102.63	7.922			
15,960.0	9,743.0	14,860.1	8,934.3	54.9	53.2	-0.01	-5,840.8	-1,159.4	813.0	709.5	103.51	7.854			
16,000.0	9,743.1	14,900.1	8,934.4	55.2	53.5	-0.01	-5,880.8	-1,159.7	813.0	708.9	104.10	7.809			
16,055.0	9,743.1	14,955.1	8,934.5	55.5	53.8	-0.01	-5,935.8	-1,160.2	812.9	708.0	104.91	7.749			
16,100.0	9,743.1	15,000.1	8,934.6	55.8	54.1	-0.01	-5,980.8	-1,160.6	812.8	707.3	105.57	7.700			
16,150.0	9,743.1	15,050.1	8,934.7	56.1	54.5	-0.01	-6,030.8	-1,161.0	812.8	706.5	106.30	7.646			
16,200.0	9,743.2	15,100.1	8,934.8	56.5	54.8	-0.01	-6,080.8	-1,161.5	812.7	705.7	107.04	7.592			
16,245.0	9,743.2	15,145.1	8,934.9	56.7	55.1	-0.01	-6,125.8	-1,161.9	812.6	704.9	107.70	7.545			
16,300.0	9,743.2	15,200.1	8,935.0	57.1	55.4	-0.01	-6,180.8	-1,162.4	812.6	704.0	108.51	7.488			
16,340.0	9,743.2	15,240.1	8,935.0	57.4	55.7	-0.01	-6,220.8	-1,162.7	812.5	703.4	109.10	7.447			
16,400.0	9,743.3	15,300.1	8,935.2	57.8	56.1	-0.01	-6,280.8	-1,163.3	812.4	702.4	109.99	7.386			
16,435.0	9,743.3	15,335.1	8,935.2	58.0	56.3	-0.01	-6,315.8	-1,163.6	812.4	701.9	110.51	7.351			
16,500.0	9,743.3	15,400.1	8,935.3	58.4	56.8	-0.01	-6,380.8	-1,164.2	812.3	700.8	111.47	7.287			
16,530.0	9,743.3	15,430.1	8,935.4	58.6	56.9	-0.01	-6,410.8	-1,164.4	812.2	700.3	111.91	7.258			
16,600.0	9,743.4	15,500.1	8,935.5	59.1	57.4	-0.01	-6,480.8	-1,165.0	812.1	699.2	112.95	7.190			
16,625.0	9,743.4	15,525.1	8,935.6	59.2	57.6	-0.01	-6,505.8	-1,165.3	812.1	698.8	113.32	7.166			
16,700.0	9,743.4	15,600.1	8,935.7	59.7	58.1	-0.01	-6,580.8	-1,165.9	812.0	697.6	114.44	7.096			
16,720.0	9,743.4	15,620.1	8,935.8	59.9	58.2	-0.01	-6,600.8	-1,166.1	812.0	697.3	114.73	7.077			
16,800.0	9,743.5	15,700.1	8,935.9	60.4	58.7	-0.01	-6,680.8	-1,166.8	811.9	696.0	115.92	7.004			
16,815.0	9,743.5	15,715.1	8,935.9	60.5	58.8	-0.01	-6,695.8	-1,167.0	811.9	695.7	116.15	6.990			
16,900.0	9,743.5	15,800.1	8,936.1	61.1	59.4	-0.01	-6,780.8	-1,167.7	811.7	694.3	117.41	6.914			
16,910.0	9,743.5	15,810.1	8,936.1	61.1	59.5	-0.01	-6,790.8	-1,167.8	811.7	694.2	117.56	6.905			
17,000.0	9,743.6	15,900.1	8,936.3	61.8	60.1	-0.01	-6,880.8	-1,168.6	811.6	692.7	118.90	6.826			
17,005.0	9,743.6	15,905.1	8,936.3	61.8	60.1	-0.01	-6,885.8	-1,168.6	811.6	692.6	118.98	6.822			
17,100.0	9,743.6	16,000.1	8,936.5	62.4	60.8	-0.01	-6,980.8	-1,169.5	811.5	691.1	120.39	6.740			

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 #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #806H	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 #710H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8487-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	
17,195.0	9,743.7	16,095.1	8,936.7	63.1	61.4	-0.01	-7,075.8	-1,170.3	811.3	689.5	121.81	6.661		
17,200.0	9,743.7	16,100.1	8,936.7	63.1	61.4	-0.01	-7,080.8	-1,170.4	811.3	689.4	121.89	6.656		
17,290.0	9,743.7	16,190.1	8,936.8	63.7	62.1	-0.01	-7,170.8	-1,171.2	811.2	688.0	123.23	6.583		
17,300.0	9,743.8	16,200.1	8,936.9	63.8	62.1	-0.01	-7,180.8	-1,171.3	811.2	687.8	123.38	6.575		
17,385.0	9,743.8	16,285.1	8,937.0	64.4	62.7	-0.01	-7,265.8	-1,172.0	811.1	686.4	124.66	6.506		
17,400.0	9,743.8	16,300.1	8,937.0	64.5	62.8	-0.01	-7,280.7	-1,172.2	811.1	686.2	124.88	6.495		
17,480.0	9,743.8	16,380.1	8,937.2	65.0	63.3	-0.01	-7,360.7	-1,172.9	811.0	684.9	126.08	6.432		
17,500.0	9,743.9	16,400.1	8,937.2	65.1	63.5	-0.01	-7,380.7	-1,173.0	810.9	684.5	126.38	6.416		
17,575.0	9,743.9	16,475.1	8,937.4	65.7	64.0	-0.01	-7,455.7	-1,173.7	810.8	683.3	127.51	6.359		
17,600.0	9,743.9	16,500.1	8,937.4	65.8	64.2	-0.01	-7,480.7	-1,173.9	810.8	682.9	127.88	6.340		
17,670.0	9,743.9	16,570.1	8,937.6	66.3	64.6	-0.01	-7,550.7	-1,174.6	810.7	681.8	128.94	6.288		
17,700.0	9,744.0	16,600.1	8,937.6	66.5	64.9	-0.01	-7,580.7	-1,174.8	810.7	681.3	129.39	6.265		
17,765.0	9,744.0	16,665.1	8,937.7	67.0	65.3	-0.01	-7,645.7	-1,175.4	810.6	680.2	130.37	6.218		
17,800.0	9,744.0	16,700.1	8,937.8	67.2	65.5	-0.01	-7,680.7	-1,175.7	810.5	679.6	130.89	6.192		
17,860.0	9,744.0	16,760.1	8,937.9	67.6	66.0	-0.01	-7,740.7	-1,176.2	810.4	678.6	131.80	6.149		
17,900.0	9,744.1	16,800.1	8,938.0	67.9	66.2	-0.01	-7,780.7	-1,176.6	810.4	678.0	132.40	6.121		
17,955.0	9,744.1	16,855.1	8,938.1	68.3	66.6	-0.01	-7,835.7	-1,177.1	810.3	677.1	133.23	6.082		
18,000.0	9,744.1	16,900.1	8,938.2	68.6	66.9	-0.01	-7,880.7	-1,177.5	810.2	676.3	133.91	6.051		
18,050.0	9,744.1	16,950.1	8,938.3	68.9	67.3	-0.01	-7,930.7	-1,177.9	810.2	675.5	134.66	6.016		
18,100.0	9,744.2	17,000.1	8,938.4	69.3	67.6	-0.01	-7,980.7	-1,178.4	810.1	674.7	135.42	5.982		
18,145.0	9,744.2	17,045.1	8,938.4	69.6	67.9	-0.01	-8,025.7	-1,178.8	810.1	674.0	136.09	5.952		
18,200.0	9,744.2	17,100.1	8,938.6	70.0	68.3	-0.01	-8,080.7	-1,179.3	810.0	673.1	136.93	5.915		
18,240.0	9,744.2	17,140.1	8,938.6	70.2	68.6	-0.01	-8,120.7	-1,179.6	809.9	672.4	137.53	5.889		
18,300.0	9,744.3	17,200.1	8,938.7	70.7	69.0	-0.01	-8,180.7	-1,180.2	809.8	671.4	138.44	5.850		
18,335.0	9,744.3	17,235.1	8,938.8	70.9	69.3	-0.01	-8,215.7	-1,180.5	809.8	670.8	138.97	5.827		
18,400.0	9,744.3	17,300.1	8,938.9	71.4	69.7	-0.01	-8,280.7	-1,181.1	809.7	669.8	139.95	5.786		
18,430.0	9,744.3	17,330.1	8,939.0	71.6	69.9	-0.01	-8,310.7	-1,181.3	809.7	669.3	140.40	5.767		
18,500.0	9,744.4	17,400.1	8,939.1	72.1	70.4	-0.01	-8,380.7	-1,181.9	809.6	668.1	141.46	5.723		
18,525.0	9,744.4	17,425.1	8,939.2	72.2	70.6	-0.01	-8,405.7	-1,182.2	809.5	667.7	141.84	5.707		
18,600.0	9,744.4	17,500.1	8,939.3	72.8	71.1	-0.01	-8,480.7	-1,182.8	809.4	666.5	142.98	5.661		
18,620.0	9,744.4	17,520.1	8,939.3	72.9	71.2	-0.01	-8,500.7	-1,183.0	809.4	666.1	143.28	5.649		
18,700.0	9,744.5	17,600.1	8,939.5	73.5	71.8	-0.01	-8,580.7	-1,183.7	809.3	664.8	144.50	5.601		
18,715.0	9,744.5	17,615.1	8,939.5	73.6	71.9	-0.01	-8,595.7	-1,183.9	809.3	664.6	144.72	5.592		
18,800.0	9,744.5	17,700.1	8,939.7	74.2	72.5	-0.01	-8,680.7	-1,184.6	809.2	663.1	146.01	5.542		
18,810.0	9,744.6	17,710.1	8,939.7	74.2	72.6	-0.01	-8,690.7	-1,184.7	809.1	663.0	146.17	5.536		
18,900.0	9,744.6	17,800.1	8,939.9	74.9	73.2	-0.01	-8,780.7	-1,185.5	809.0	661.5	147.53	5.484		
18,905.0	9,744.6	17,805.1	8,939.9	74.9	73.2	-0.01	-8,785.7	-1,185.5	809.0	661.4	147.61	5.481		
19,000.0	9,744.7	17,900.1	8,940.1	75.6	73.9	-0.01	-8,880.7	-1,186.4	808.9	659.8	149.05	5.427		
19,095.0	9,744.7	17,995.1	8,940.2	76.2	74.6	-0.01	-8,975.7	-1,187.2	808.8	658.3	150.50	5.374		
19,100.0	9,744.7	18,000.1	8,940.2	76.3	74.6	-0.01	-8,980.7	-1,187.3	808.8	658.2	150.57	5.371		
19,190.0	9,744.8	18,090.1	8,940.4	76.9	75.3	-0.01	-9,070.7	-1,188.1	808.6	656.7	151.94	5.322		
19,200.0	9,744.8	18,100.1	8,940.4	77.0	75.3	-0.01	-9,080.7	-1,188.2	808.6	656.5	152.10	5.317		
19,285.0	9,744.8	18,185.1	8,940.6	77.6	75.9	-0.01	-9,165.7	-1,188.9	808.5	655.1	153.39	5.271		
19,300.0	9,744.8	18,200.1	8,940.6	77.7	76.0	-0.01	-9,180.7	-1,189.1	808.5	654.9	153.62	5.263		
19,380.0	9,744.9	18,280.1	8,940.8	78.3	76.6	-0.01	-9,260.7	-1,189.8	808.4	653.5	154.84	5.221		
19,400.0	9,744.9	18,300.1	8,940.8	78.4	76.8	-0.01	-9,280.7	-1,189.9	808.3	653.2	155.14	5.210		
19,475.0	9,744.9	18,375.1	8,941.0	78.9	77.3	0.00	-9,355.7	-1,190.6	808.2	652.0	156.29	5.172		
19,500.0	9,744.9	18,400.1	8,941.0	79.1	77.5	0.00	-9,380.7	-1,190.8	808.2	651.5	156.67	5.159		
19,570.0	9,745.0	18,470.1	8,941.1	79.6	78.0	0.00	-9,450.7	-1,191.5	808.1	650.4	157.74	5.123		
19,600.0	9,745.0	18,500.1	8,941.2	79.8	78.2	0.00	-9,480.7	-1,191.7	808.1	649.9	158.19	5.108		
19,665.0	9,745.0	18,565.1	8,941.3	80.3	78.6	0.00	-9,545.7	-1,192.3	808.0	648.8	159.18	5.076		

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 #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #806H	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 #710H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8487-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)			
19,700.0	9,745.0	18,600.1	8,941.4	80.5	78.9	0.00	-9,580.7	-1,192.6	807.9	648.2	159.72	5.059	
19,760.0	9,745.1	18,660.1	8,941.5	81.0	79.3	0.00	-9,640.7	-1,193.1	807.9	647.2	160.64	5.029	
19,800.0	9,745.1	18,700.1	8,941.6	81.3	79.6	0.00	-9,680.6	-1,193.5	807.8	646.6	161.25	5.010	
19,855.0	9,745.1	18,755.1	8,941.7	81.6	80.0	0.00	-9,735.6	-1,194.0	807.7	645.6	162.09	4.983	
19,900.0	9,745.1	18,800.1	8,941.8	82.0	80.3	0.00	-9,780.6	-1,194.4	807.7	644.9	162.77	4.962	
19,950.0	9,745.2	18,850.1	8,941.9	82.3	80.7	0.00	-9,830.6	-1,194.8	807.6	644.1	163.54	4.938	
20,000.0	9,745.2	18,900.1	8,941.9	82.7	81.0	0.00	-9,880.6	-1,195.3	807.5	643.2	164.30	4.915	
20,045.0	9,745.2	18,945.1	8,942.0	83.0	81.4	0.00	-9,925.6	-1,195.7	807.5	642.5	164.99	4.894	
20,100.0	9,745.2	19,000.1	8,942.1	83.4	81.8	0.00	-9,980.6	-1,196.2	807.4	641.6	165.83	4.869	
20,140.0	9,745.3	19,040.1	8,942.2	83.7	82.0	0.00	-10,020.6	-1,196.5	807.3	640.9	166.44	4.851	
20,200.0	9,745.3	19,100.1	8,942.3	84.1	82.5	0.00	-10,080.6	-1,197.1	807.3	639.9	167.36	4.823	
20,235.0	9,745.3	19,135.1	8,942.4	84.4	82.7	0.00	-10,115.6	-1,197.4	807.2	639.3	167.90	4.808	
20,300.0	9,745.3	19,200.1	8,942.5	84.8	83.2	0.00	-10,180.6	-1,197.9	807.1	638.2	168.89	4.779	
20,330.0	9,745.4	19,230.1	8,942.6	85.1	83.4	0.00	-10,210.6	-1,198.2	807.1	637.7	169.35	4.766	
20,400.0	9,745.4	19,300.1	8,942.7	85.6	83.9	0.00	-10,280.6	-1,198.8	807.0	636.6	170.43	4.735	
20,425.0	9,745.4	19,325.1	8,942.7	85.7	84.1	0.00	-10,305.6	-1,199.1	807.0	636.1	170.81	4.724	
20,500.0	9,745.4	19,400.1	8,942.9	86.3	84.6	0.00	-10,380.6	-1,199.7	806.9	634.9	171.96	4.692	
20,520.0	9,745.5	19,420.1	8,942.9	86.4	84.8	0.00	-10,400.6	-1,199.9	806.8	634.6	172.26	4.684	
20,600.0	9,745.5	19,500.1	8,943.1	87.0	85.4	0.00	-10,480.6	-1,200.6	806.7	633.2	173.49	4.650	
20,615.0	9,745.5	19,515.1	8,943.1	87.1	85.5	0.00	-10,495.6	-1,200.7	806.7	633.0	173.72	4.644	
20,700.0	9,745.5	19,600.1	8,943.3	87.7	86.1	0.00	-10,580.6	-1,201.5	806.6	631.6	175.03	4.608	
20,710.0	9,745.6	19,610.1	8,943.3	87.8	86.1	0.00	-10,590.6	-1,201.6	806.6	631.4	175.18	4.604	
20,800.0	9,745.6	19,700.1	8,943.5	88.4	86.8	0.00	-10,680.6	-1,202.4	806.4	629.9	176.56	4.568	
20,805.0	9,745.6	19,705.1	8,943.5	88.5	86.8	0.00	-10,685.6	-1,202.4	806.4	629.8	176.64	4.566	
20,900.0	9,745.7	19,800.1	8,943.6	89.2	87.5	0.00	-10,780.6	-1,203.3	806.3	628.2	178.09	4.527	
20,995.0	9,745.7	19,895.1	8,943.8	89.8	88.2	0.00	-10,875.6	-1,204.1	806.2	626.6	179.55	4.490	
21,000.0	9,745.7	19,900.1	8,943.8	89.9	88.2	0.00	-10,880.6	-1,204.2	806.2	626.5	179.63	4.488	
21,090.0	9,745.8	19,990.1	8,944.0	90.5	88.9	0.00	-10,970.6	-1,205.0	806.1	625.0	181.01	4.453	
21,100.0	9,745.8	20,000.1	8,944.0	90.6	89.0	0.00	-10,980.6	-1,205.1	806.0	624.9	181.17	4.449	
21,185.0	9,745.8	20,085.1	8,944.2	91.2	89.6	0.00	-11,065.6	-1,205.8	805.9	623.5	182.47	4.417	
21,200.0	9,745.8	20,100.1	8,944.2	91.3	89.7	0.00	-11,080.6	-1,205.9	805.9	623.2	182.70	4.411	
21,280.0	9,745.9	20,180.1	8,944.4	91.9	90.3	0.00	-11,160.6	-1,206.7	805.8	621.9	183.93	4.381	
21,300.0	9,745.9	20,200.1	8,944.4	92.1	90.4	0.00	-11,180.6	-1,206.8	805.8	621.5	184.24	4.373	
21,375.0	9,745.9	20,275.1	8,944.5	92.6	91.0	0.00	-11,255.6	-1,207.5	805.7	620.3	185.39	4.346	
21,400.0	9,745.9	20,300.1	8,944.6	92.8	91.1	0.00	-11,280.6	-1,207.7	805.6	619.9	185.78	4.337	
21,470.0	9,746.0	20,370.1	8,944.7	93.3	91.7	0.00	-11,350.6	-1,208.3	805.5	618.7	186.85	4.311	
21,500.0	9,746.0	20,400.1	8,944.8	93.5	91.9	0.00	-11,380.6	-1,208.6	805.5	618.2	187.32	4.300	
21,565.0	9,746.0	20,465.1	8,944.9	94.0	92.3	0.00	-11,445.6	-1,209.2	805.4	617.1	188.32	4.277	
21,600.0	9,746.0	20,500.1	8,945.0	94.2	92.6	0.00	-11,480.6	-1,209.5	805.4	616.5	188.86	4.264	
21,660.0	9,746.1	20,560.1	8,945.1	94.7	93.0	0.00	-11,540.6	-1,210.0	805.3	615.5	189.78	4.243	
21,700.0	9,746.1	20,600.1	8,945.2	95.0	93.3	0.00	-11,580.6	-1,210.4	805.2	614.8	190.39	4.229	
21,755.0	9,746.1	20,655.1	8,945.3	95.4	93.7	0.00	-11,635.6	-1,210.9	805.2	613.9	191.24	4.210	
21,800.0	9,746.1	20,700.1	8,945.3	95.7	94.1	0.00	-11,680.6	-1,211.3	805.1	613.2	191.93	4.195	
21,850.0	9,746.2	20,750.1	8,945.4	96.1	94.4	0.00	-11,730.6	-1,211.7	805.0	612.3	192.70	4.177	
21,900.0	9,746.2	20,800.1	8,945.5	96.4	94.8	0.00	-11,780.6	-1,212.2	805.0	611.5	193.47	4.161	
21,945.0	9,746.2	20,845.1	8,945.6	96.8	95.1	0.00	-11,825.6	-1,212.6	804.9	610.7	194.17	4.145	
22,000.0	9,746.2	20,900.1	8,945.7	97.2	95.5	0.00	-11,880.6	-1,213.1	804.8	609.8	195.02	4.127	
22,040.0	9,746.3	20,940.1	8,945.8	97.4	95.8	0.00	-11,920.6	-1,213.4	804.8	609.1	195.63	4.114	
22,100.0	9,746.3	21,000.1	8,945.9	97.9	96.2	0.00	-11,980.6	-1,213.9	804.7	608.1	196.56	4.094	
22,135.0	9,746.3	21,035.1	8,946.0	98.1	96.5	0.00	-12,015.5	-1,214.3	804.6	607.5	197.10	4.082	
22,200.0	9,746.3	21,100.1	8,946.1	98.6	97.0	0.00	-12,080.5	-1,214.8	804.5	606.4	198.10	4.061	

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 #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #806H	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 #710H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8487-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	
22,230.0	9,746.4	21,130.1	8,946.2	98.8	97.2	0.00	-12,110.5	-1,215.1	804.5	605.9	198.56	4.052		
22,300.0	9,746.4	21,200.1	8,946.3	99.3	97.7	0.00	-12,180.5	-1,215.7	804.4	604.8	199.64	4.029		
22,325.0	9,746.4	21,225.1	8,946.3	99.5	97.9	0.00	-12,205.5	-1,215.9	804.4	604.4	200.03	4.021		
22,400.0	9,746.4	21,300.1	8,946.5	100.1	98.4	0.00	-12,280.5	-1,216.6	804.3	603.1	201.18	3.998		
22,420.0	9,746.5	21,320.1	8,946.5	100.2	98.6	0.00	-12,300.5	-1,216.8	804.2	602.8	201.49	3.991		
22,500.0	9,746.5	21,400.1	8,946.7	100.8	99.2	0.00	-12,380.5	-1,217.5	804.1	601.4	202.73	3.967		
22,515.0	9,746.5	21,415.1	8,946.7	100.9	99.3	0.00	-12,395.5	-1,217.6	804.1	601.2	202.96	3.962		
22,600.0	9,746.6	21,500.1	8,946.9	101.5	99.9	0.00	-12,480.5	-1,218.4	804.0	599.7	204.27	3.936		
22,610.0	9,746.6	21,510.1	8,946.9	101.6	100.0	0.00	-12,490.5	-1,218.5	804.0	599.6	204.42	3.933		
22,700.0	9,746.6	21,600.1	8,947.0	102.3	100.6	0.00	-12,580.5	-1,219.3	803.9	598.1	205.81	3.906		
22,705.0	9,746.6	21,605.1	8,947.0	102.3	100.7	0.00	-12,585.5	-1,219.3	803.9	598.0	205.89	3.904		
22,800.0	9,746.7	21,700.1	8,947.2	103.0	101.4	0.00	-12,680.5	-1,220.2	803.7	596.4	207.36	3.876		
22,895.0	9,746.7	21,795.1	8,947.4	103.7	102.1	0.00	-12,775.5	-1,221.0	803.6	594.8	208.82	3.848		
22,900.0	9,746.7	21,800.1	8,947.4	103.7	102.1	0.00	-12,780.5	-1,221.1	803.6	594.7	208.90	3.847		
22,990.0	9,746.8	21,890.1	8,947.6	104.4	102.8	0.00	-12,870.5	-1,221.9	803.5	593.2	210.29	3.821		
23,000.0	9,746.8	21,900.1	8,947.6	104.5	102.8	0.00	-12,880.5	-1,221.9	803.5	593.0	210.45	3.818		
23,085.0	9,746.8	21,985.1	8,947.8	105.1	103.5	0.00	-12,965.5	-1,222.7	803.3	591.6	211.76	3.794		
23,100.0	9,746.8	22,000.1	8,947.8	105.2	103.6	0.00	-12,980.5	-1,222.8	803.3	591.3	211.99	3.789		
23,180.0	9,746.9	22,080.1	8,947.9	105.8	104.2	0.00	-13,060.5	-1,223.5	803.2	590.0	213.23	3.767		
23,200.0	9,746.9	22,100.1	8,948.0	106.0	104.3	0.00	-13,080.5	-1,223.7	803.2	589.7	213.54	3.761		
23,275.0	9,746.9	22,175.1	8,948.1	106.5	104.9	0.00	-13,155.5	-1,224.4	803.1	588.4	214.70	3.741		
23,300.0	9,746.9	22,200.1	8,948.2	106.7	105.1	0.00	-13,180.5	-1,224.6	803.1	588.0	215.08	3.734		
23,370.0	9,747.0	22,270.1	8,948.3	107.2	105.6	0.00	-13,250.5	-1,225.2	803.0	586.8	216.17	3.715		
23,400.0	9,747.0	22,300.1	8,948.4	107.4	105.8	0.00	-13,280.5	-1,225.5	802.9	586.3	216.63	3.706		
23,465.0	9,747.0	22,365.1	8,948.5	107.9	106.3	0.00	-13,345.5	-1,226.1	802.8	585.2	217.63	3.689		
23,500.0	9,747.0	22,400.1	8,948.5	108.2	106.5	0.00	-13,380.5	-1,226.4	802.8	584.6	218.18	3.680		
23,560.0	9,747.1	22,460.1	8,948.7	108.6	107.0	0.00	-13,440.5	-1,226.9	802.7	583.6	219.10	3.664		
23,600.0	9,747.1	22,500.1	8,948.7	108.9	107.3	0.00	-13,480.5	-1,227.3	802.6	582.9	219.72	3.653		
23,655.0	9,747.1	22,555.1	8,948.8	109.3	107.7	0.00	-13,535.5	-1,227.8	802.6	582.0	220.57	3.639		
23,700.0	9,747.1	22,600.1	8,948.9	109.6	108.0	0.00	-13,580.5	-1,228.2	802.5	581.2	221.27	3.627		
23,750.0	9,747.2	22,650.1	8,949.0	110.0	108.4	0.00	-13,630.5	-1,228.6	802.4	580.4	222.04	3.614		
23,800.0	9,747.2	22,700.1	8,949.1	110.4	108.7	0.00	-13,680.5	-1,229.1	802.4	579.6	222.82	3.601		
23,845.0	9,747.2	22,745.1	8,949.2	110.7	109.1	0.00	-13,725.5	-1,229.5	802.3	578.8	223.51	3.590		
23,900.0	9,747.2	22,800.1	8,949.3	111.1	109.5	0.00	-13,780.5	-1,229.9	802.2	577.9	224.37	3.576		
23,940.0	9,747.3	22,840.1	8,949.4	111.4	109.8	0.00	-13,820.5	-1,230.3	802.2	577.2	224.99	3.566		
24,000.0	9,747.3	22,900.1	8,949.5	111.9	110.2	0.00	-13,880.5	-1,230.8	802.1	576.2	225.91	3.550		
24,035.0	9,747.3	22,935.1	8,949.6	112.1	110.5	0.00	-13,915.5	-1,231.1	802.1	575.6	226.46	3.542		
24,100.0	9,747.3	23,000.1	8,949.7	112.6	111.0	0.00	-13,980.5	-1,231.7	802.0	574.5	227.46	3.526		
24,130.0	9,747.4	23,030.1	8,949.7	112.8	111.2	0.00	-14,010.5	-1,232.0	801.9	574.0	227.93	3.518		
24,200.0	9,747.4	23,100.1	8,949.9	113.3	111.7	0.00	-14,080.5	-1,232.6	801.8	572.8	229.01	3.501		
24,225.0	9,747.4	23,125.1	8,949.9	113.5	111.9	0.00	-14,105.5	-1,232.8	801.8	572.4	229.40	3.495		
24,300.0	9,747.5	23,200.1	8,950.1	114.1	112.4	0.00	-14,180.5	-1,233.5	801.7	571.1	230.56	3.477		
24,320.0	9,747.5	23,220.1	8,950.1	114.2	112.6	0.00	-14,200.5	-1,233.7	801.7	570.8	230.87	3.472		
24,400.0	9,747.5	23,300.1	8,950.2	114.8	113.2	0.00	-14,280.5	-1,234.4	801.6	569.5	232.11	3.453		
24,415.0	9,747.5	23,315.1	8,950.3	114.9	113.3	0.00	-14,295.5	-1,234.5	801.5	569.2	232.34	3.450		
24,500.0	9,747.6	23,400.1	8,950.4	115.5	113.9	0.00	-14,380.4	-1,235.3	801.4	567.8	233.66	3.430		
24,510.0	9,747.6	23,410.1	8,950.5	115.6	114.0	0.00	-14,390.4	-1,235.4	801.4	567.6	233.81	3.428		
24,600.0	9,747.6	23,500.1	8,950.6	116.3	114.7	0.00	-14,480.4	-1,236.2	801.3	566.1	235.21	3.407		
24,605.0	9,747.6	23,505.1	8,950.6	116.3	114.7	0.00	-14,485.4	-1,236.2	801.3	566.0	235.29	3.406		
24,700.0	9,747.7	23,600.1	8,950.8	117.0	115.4	0.00	-14,580.4	-1,237.1	801.2	564.4	236.76	3.384		
24,795.0	9,747.7	23,695.1	8,951.0	117.7	116.1	0.00	-14,675.4	-1,237.9	801.0	562.8	238.23	3.362		

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 #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #806H	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 #710H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8487-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Rule Assigned:		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	
24,800.0	9,747.7	23,700.1	8,951.0	117.8	116.1	0.00	-14,680.4	-1,238.0	801.0	562.7	238.31	3.361	
24,890.0	9,747.8	23,790.1	8,951.2	118.4	116.8	0.00	-14,770.4	-1,238.8	800.9	561.2	239.71	3.341	
24,900.0	9,747.8	23,800.1	8,951.2	118.5	116.9	0.00	-14,780.4	-1,238.8	800.9	561.0	239.86	3.339	
24,985.0	9,747.8	23,885.1	8,951.4	119.1	117.5	0.00	-14,865.4	-1,239.6	800.8	559.6	241.18	3.320	
25,000.0	9,747.8	23,900.1	8,951.4	119.3	117.6	0.00	-14,880.4	-1,239.7	800.7	559.3	241.41	3.317	
25,080.0	9,747.9	23,980.1	8,951.5	119.8	118.2	0.00	-14,960.4	-1,240.4	800.6	558.0	242.65	3.300	
25,100.0	9,747.9	24,000.1	8,951.6	120.0	118.4	0.00	-14,980.4	-1,240.6	800.6	557.6	242.96	3.295	
25,175.0	9,747.9	24,075.1	8,951.7	120.6	118.9	0.00	-15,055.4	-1,241.3	800.5	556.4	244.13	3.279	
25,200.7	9,747.9	24,100.8	8,951.8	120.7	119.1	0.00	-15,081.1	-1,241.5	800.5	556.0	244.52	3.274	
25,270.0	9,748.0	24,170.1	8,951.9	121.3	119.6	0.00	-15,150.4	-1,242.1	800.4	554.8	245.60	3.259	
25,300.0	9,748.0	24,200.1	8,951.9	121.5	119.9	0.00	-15,180.4	-1,242.4	800.3	554.3	246.07	3.253	
25,329.9	9,748.0	24,229.3	8,952.0	121.7	120.1	0.00	-15,209.6	-1,242.7	800.3	553.8	246.52	3.246	
25,330.7	9,748.0	24,229.3	8,952.0	121.7	120.1	0.00	-15,209.6	-1,242.7	800.3	553.8	246.53	3.246 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 #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #806H	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	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.0	0.0	0.0	0.0	3.0	3.0	89.04	1.0	59.9	59.9				
95.0	95.0	94.9	94.9	3.0	3.0	89.04	1.0	59.9	59.9	53.9	6.04	9.925	
100.0	100.0	99.9	99.9	3.0	3.0	89.04	1.0	59.9	59.9	53.9	6.04	9.917	
190.0	190.0	189.9	189.9	3.1	3.1	89.04	1.0	59.9	59.9	53.7	6.25	9.582	
200.0	200.0	199.9	199.9	3.1	3.1	89.04	1.0	59.9	59.9	53.6	6.29	9.530	
285.0	285.0	284.9	284.9	3.3	3.3	89.04	1.0	59.9	59.9	53.4	6.48	9.241	
300.0	300.0	299.9	299.9	3.3	3.3	89.04	1.0	59.9	59.9	53.4	6.52	9.185	
380.0	380.0	379.9	379.9	3.4	3.4	89.04	1.0	59.9	59.9	53.2	6.70	8.939	
400.0	400.0	399.9	399.9	3.4	3.4	89.04	1.0	59.9	59.9	53.2	6.75	8.875	
475.0	475.0	474.9	474.9	3.5	3.5	89.04	1.0	59.9	59.9	53.0	6.91	8.666	
500.0	500.0	499.9	499.9	3.5	3.5	89.04	1.0	59.9	59.9	52.9	6.97	8.594	
570.0	570.0	569.9	569.9	3.6	3.6	89.04	1.0	59.9	59.9	52.8	7.12	8.416	
600.0	600.0	599.9	599.9	3.6	3.6	89.04	1.0	59.9	59.9	52.7	7.18	8.339	
665.0	665.0	664.9	664.9	3.7	3.7	89.04	1.0	59.9	59.9	52.6	7.32	8.187	
700.0	700.0	699.9	699.9	3.8	3.8	89.04	1.0	59.9	59.9	52.5	7.39	8.105	
760.0	760.0	759.9	759.9	3.8	3.8	89.04	1.0	59.9	59.9	52.4	7.51	7.975	
800.0	800.0	799.9	799.9	3.9	3.9	89.04	1.0	59.9	59.9	52.3	7.59	7.889	
855.0	855.0	854.9	854.9	4.0	4.0	89.04	1.0	59.9	59.9	52.2	7.70	7.779	
900.0	900.0	899.9	899.9	4.0	4.0	89.04	1.0	59.9	59.9	52.1	7.79	7.690	
950.0	950.0	949.9	949.9	4.1	4.1	89.04	1.0	59.9	59.9	52.0	7.89	7.597	
1,000.0	1,000.0	999.9	999.9	4.1	4.1	89.04	1.0	59.9	59.9	51.9	7.98	7.505	
1,045.0	1,045.0	1,044.9	1,044.9	4.2	4.2	89.04	1.0	59.9	59.9	51.8	8.07	7.427	
1,100.0	1,100.0	1,099.9	1,099.9	4.2	4.2	89.04	1.0	59.9	59.9	51.7	8.17	7.333	
1,140.0	1,140.0	1,139.9	1,139.9	4.3	4.3	89.04	1.0	59.9	59.9	51.7	8.24	7.268	
1,200.0	1,200.0	1,199.9	1,199.9	4.4	4.4	89.04	1.0	59.9	59.9	51.6	8.35	7.172	
1,235.0	1,235.0	1,234.9	1,234.9	4.4	4.4	89.04	1.0	59.9	59.9	51.5	8.41	7.119	
1,300.0	1,300.0	1,299.9	1,299.9	4.5	4.5	89.04	1.0	59.9	59.9	51.4	8.53	7.022	
1,330.0	1,330.0	1,329.9	1,329.9	4.5	4.5	89.04	1.0	59.9	59.9	51.3	8.58	6.979	
1,400.0	1,400.0	1,399.9	1,399.9	4.6	4.6	89.04	1.0	59.9	59.9	51.2	8.71	6.880	
1,425.0	1,425.0	1,424.9	1,424.9	4.6	4.6	89.04	1.0	59.9	59.9	51.2	8.75	6.847	
1,500.0	1,500.0	1,499.9	1,499.9	4.7	4.7	89.04	1.0	59.9	59.9	51.0	8.88	6.747 CC, ES	
1,520.0	1,520.0	1,519.6	1,519.6	4.7	4.7	155.28	1.0	60.0	60.0	51.1	8.94	6.712 SF	
1,600.0	1,600.0	1,598.2	1,598.2	4.8	4.9	154.94	2.1	61.2	62.8	53.6	9.20	6.829	
1,615.0	1,615.0	1,613.0	1,612.9	4.9	4.9	154.83	2.5	61.6	63.7	54.5	9.27	6.878	
1,700.0	1,699.8	1,696.1	1,695.9	5.0	5.1	154.04	5.4	65.0	71.5	61.8	9.68	7.388	
1,710.0	1,709.8	1,705.8	1,705.6	5.1	5.1	153.93	5.8	65.5	72.7	63.0	9.73	7.473	
1,800.0	1,799.5	1,792.9	1,792.4	5.3	5.3	152.92	10.8	71.2	86.0	75.8	10.17	8.453	
1,805.0	1,804.4	1,797.7	1,797.2	5.3	5.4	152.86	11.1	71.6	86.9	76.7	10.20	8.518	
1,900.0	1,898.7	1,888.3	1,887.1	5.6	5.6	151.83	18.2	79.8	106.2	95.5	10.68	9.941	
1,995.0	1,992.5	1,977.2	1,975.0	5.9	5.9	150.92	26.9	89.9	130.5	119.3	11.17	11.679	
2,000.0	1,997.5	1,981.8	1,979.5	5.9	5.9	150.88	27.4	90.5	131.9	120.7	11.20	11.779	
2,090.0	2,085.8	2,064.0	2,060.3	6.2	6.2	150.13	37.2	101.8	159.7	148.1	11.68	13.679	
2,100.0	2,095.6	2,073.0	2,069.2	6.3	6.2	150.05	38.3	103.1	163.1	151.4	11.73	13.904	
2,185.0	2,178.5	2,148.4	2,142.9	6.6	6.5	149.44	48.8	115.2	193.7	181.6	12.19	15.893	
2,200.0	2,193.0	2,161.5	2,155.7	6.6	6.5	149.33	50.7	117.4	199.5	187.3	12.27	16.261	
2,280.0	2,270.7	2,232.6	2,224.7	6.9	6.8	149.05	61.8	130.3	231.3	218.7	12.67	18.251	
2,300.0	2,290.1	2,251.0	2,242.5	6.9	6.8	148.98	64.7	133.6	239.3	226.6	12.78	18.730	
2,375.0	2,362.9	2,319.7	2,309.2	7.2	7.0	148.75	75.6	146.2	269.3	256.2	13.18	20.439	
2,400.0	2,387.1	2,342.6	2,331.4	7.3	7.1	148.68	79.2	150.4	279.4	266.0	13.31	20.982	
2,470.0	2,455.0	2,406.7	2,393.7	7.5	7.3	148.52	89.3	162.2	307.4	293.7	13.71	22.427	
2,500.0	2,484.1	2,434.2	2,420.3	7.6	7.4	148.46	93.7	167.2	319.4	305.5	13.88	23.016	

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 #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #806H	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:				Warning	
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside			Distance					
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Between	Between	Minimum	Separation		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	Centres	Ellipses	Separation	Factor		
									(usft)	(usft)	(usft)			
2,565.0	2,547.2	2,493.8	2,478.1	7.8	7.6	148.35	103.1	178.1	345.4	331.2	14.26	24.229		
2,600.0	2,581.2	2,525.9	2,509.2	8.0	7.7	148.29	108.2	184.0	359.4	345.0	14.46	24.851		
2,660.0	2,639.4	2,580.9	2,562.6	8.2	7.9	148.21	116.9	194.0	383.4	368.6	14.83	25.862		
2,700.0	2,678.2	2,617.5	2,598.2	8.3	8.1	148.15	122.7	200.7	399.5	384.4	15.07	26.506		
2,755.0	2,731.6	2,667.9	2,647.1	8.5	8.3	148.09	130.7	210.0	421.5	406.1	15.41	27.344		
2,800.0	2,775.2	2,709.1	2,687.1	8.7	8.4	148.04	137.2	217.5	439.5	423.8	15.70	27.999		
2,850.0	2,823.7	2,755.0	2,731.5	8.9	8.6	147.99	144.4	225.9	459.5	443.5	16.02	28.688		
2,900.0	2,872.3	2,800.8	2,776.0	9.1	8.8	147.95	151.7	234.3	479.5	463.2	16.34	29.349		
2,945.0	2,915.9	2,842.0	2,816.0	9.3	8.9	147.91	158.2	241.9	497.5	480.9	16.63	29.911		
3,000.0	2,969.3	2,892.4	2,864.9	9.5	9.1	147.87	166.2	251.1	519.6	502.6	17.00	30.569		
3,040.0	3,008.1	2,929.1	2,900.4	9.7	9.3	147.84	172.0	257.8	535.6	518.3	17.26	31.023		
3,100.0	3,066.3	2,984.0	2,953.8	9.9	9.5	147.80	180.7	267.9	559.6	541.9	17.67	31.675		
3,135.0	3,100.3	3,016.1	2,984.9	10.1	9.6	147.78	185.7	273.7	573.6	555.7	17.90	32.037		
3,200.0	3,163.4	3,075.7	3,042.7	10.4	9.9	147.74	195.2	284.6	599.6	581.3	18.35	32.680		
3,230.0	3,192.5	3,103.2	3,069.4	10.5	10.0	147.73	199.5	289.7	611.7	593.1	18.56	32.964		
3,300.0	3,260.4	3,167.3	3,131.6	10.8	10.3	147.69	209.7	301.4	639.7	620.6	19.04	33.595		
3,325.0	3,284.6	3,190.2	3,153.8	10.9	10.4	147.68	213.3	305.6	649.7	630.5	19.22	33.811		
3,400.0	3,357.4	3,258.9	3,220.5	11.2	10.6	147.65	224.2	318.2	679.7	660.0	19.74	34.430		
3,420.0	3,376.8	3,277.3	3,238.3	11.3	10.7	147.64	227.1	321.6	687.7	667.9	19.88	34.588		
3,500.0	3,454.4	3,350.6	3,309.4	11.7	11.0	147.61	238.7	335.0	719.8	699.3	20.45	35.193		
3,515.0	3,469.0	3,364.3	3,322.8	11.7	11.1	147.60	240.8	337.5	725.8	705.2	20.56	35.301		
3,600.0	3,551.5	3,442.2	3,398.3	12.1	11.4	147.57	253.1	351.8	759.8	738.6	21.17	35.892		
3,610.0	3,561.2	3,451.4	3,407.2	12.1	11.5	147.57	254.6	353.4	763.8	742.6	21.24	35.959		
3,700.0	3,648.5	3,533.8	3,487.2	12.5	11.8	147.54	267.6	368.5	799.9	778.0	21.89	36.534		
3,705.0	3,653.4	3,538.4	3,491.7	12.6	11.9	147.54	268.4	369.4	801.9	779.9	21.93	36.565		
3,800.0	3,745.5	3,625.5	3,576.1	13.0	12.2	147.51	282.1	385.3	839.9	817.3	22.62	37.125		
3,895.0	3,837.7	3,712.5	3,660.6	13.4	12.6	147.48	295.9	401.3	877.9	854.6	23.32	37.644		
3,900.0	3,842.6	3,717.1	3,665.1	13.4	12.6	147.48	296.6	402.1	879.9	856.6	23.36	37.670		
3,990.0	3,929.9	3,799.6	3,745.1	13.8	13.0	147.46	309.7	417.2	916.0	892.0	24.03	38.125		
4,000.0	3,939.6	3,808.7	3,754.0	13.9	13.0	147.46	311.1	418.9	920.0	895.9	24.10	38.174		
4,085.0	4,022.1	3,886.6	3,829.5	14.3	13.4	147.44	323.5	433.1	954.0	929.3	24.73	38.572		
4,100.0	4,036.6	3,900.4	3,842.9	14.3	13.5	147.44	325.6	435.7	960.0	935.2	24.85	38.640		
4,180.0	4,114.2	3,973.7	3,914.0	14.7	13.8	147.42	337.2	449.1	992.1	966.6	25.45	38.988		
4,200.0	4,133.6	3,992.0	3,931.8	14.8	13.9	147.42	340.1	452.4	1,000.1	974.5	25.60	39.073		
4,275.0	4,206.4	4,060.7	3,998.5	15.1	14.2	147.40	351.0	465.0	1,030.1	1,003.9	26.16	39.377		
4,300.0	4,230.7	4,083.6	4,020.7	15.3	14.3	147.40	354.6	469.2	1,040.1	1,013.8	26.35	39.475		
4,370.0	4,298.6	4,147.8	4,082.9	15.6	14.6	147.38	364.8	481.0	1,068.1	1,041.3	26.88	39.740		
4,400.0	4,327.7	4,175.3	4,109.6	15.7	14.7	147.38	369.1	486.0	1,080.2	1,053.0	27.11	39.849		
4,465.0	4,390.8	4,234.8	4,167.4	16.0	15.0	147.37	378.5	496.9	1,106.2	1,078.6	27.60	40.079		
4,500.0	4,424.7	4,266.9	4,198.5	16.2	15.1	147.36	383.6	502.8	1,120.2	1,092.3	27.87	40.199		
4,560.0	4,483.0	4,321.9	4,251.9	16.5	15.4	147.35	392.3	512.8	1,144.2	1,115.9	28.32	40.397		
4,600.0	4,521.8	4,358.5	4,287.4	16.7	15.6	147.35	398.1	519.5	1,160.2	1,131.6	28.63	40.525		
4,655.0	4,575.1	4,408.9	4,336.3	16.9	15.8	147.34	406.1	528.8	1,182.3	1,153.2	29.05	40.696		
4,700.0	4,618.8	4,450.1	4,376.3	17.1	16.0	147.33	412.6	536.3	1,200.3	1,170.9	29.40	40.831		
4,750.0	4,667.3	4,496.0	4,420.8	17.4	16.2	147.33	419.9	544.7	1,220.3	1,190.5	29.78	40.977		
4,800.0	4,715.8	4,541.8	4,465.2	17.6	16.4	147.32	427.1	553.1	1,240.3	1,210.2	30.17	41.118		
4,845.0	4,759.5	4,583.0	4,505.2	17.8	16.6	147.31	433.6	560.7	1,258.3	1,227.8	30.51	41.241		
4,900.0	4,812.9	4,633.4	4,554.1	18.1	16.8	147.31	441.6	569.9	1,280.4	1,249.4	30.94	41.387		
4,940.0	4,851.7	4,670.1	4,589.7	18.2	17.0	147.30	447.4	576.6	1,296.4	1,265.1	31.25	41.490		

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 #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #806H	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 #805H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9240-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	0.0	0.0	3.0	3.0	89.05	0.5	30.0	30.0				
95.0	95.0	94.8	94.8	3.0	3.0	89.05	0.5	30.0	30.0	24.0	6.04	4.971	
100.0	100.0	99.8	99.8	3.0	3.0	89.05	0.5	30.0	30.0	24.0	6.04	4.967	
190.0	190.0	189.8	189.8	3.1	3.1	89.05	0.5	30.0	30.0	23.8	6.25	4.799	
200.0	200.0	199.8	199.8	3.1	3.1	89.05	0.5	30.0	30.0	23.7	6.29	4.773	
285.0	285.0	284.8	284.8	3.3	3.3	89.05	0.5	30.0	30.0	23.5	6.48	4.628	
300.0	300.0	299.8	299.8	3.3	3.3	89.05	0.5	30.0	30.0	23.5	6.52	4.600	
380.0	380.0	379.8	379.8	3.4	3.4	89.05	0.5	30.0	30.0	23.3	6.70	4.477	
400.0	400.0	399.8	399.8	3.4	3.4	89.05	0.5	30.0	30.0	23.3	6.75	4.445	
475.0	475.0	474.8	474.8	3.5	3.5	89.05	0.5	30.0	30.0	23.1	6.91	4.340	
500.0	500.0	499.8	499.8	3.5	3.5	89.05	0.5	30.0	30.0	23.0	6.97	4.304	
570.0	570.0	569.8	569.8	3.6	3.6	89.05	0.5	30.0	30.0	22.9	7.12	4.215	
600.0	600.0	599.8	599.8	3.6	3.6	89.05	0.5	30.0	30.0	22.8	7.18	4.176	
665.0	665.0	664.8	664.8	3.7	3.7	89.05	0.5	30.0	30.0	22.7	7.32	4.100	
700.0	700.0	699.8	699.8	3.8	3.8	89.05	0.5	30.0	30.0	22.6	7.39	4.059	
760.0	760.0	759.8	759.8	3.8	3.8	89.05	0.5	30.0	30.0	22.5	7.51	3.994	
800.0	800.0	799.8	799.8	3.9	3.9	89.05	0.5	30.0	30.0	22.4	7.59	3.951	
855.0	855.0	854.8	854.8	4.0	4.0	89.05	0.5	30.0	30.0	22.3	7.70	3.896	
900.0	900.0	899.8	899.8	4.0	4.0	89.05	0.5	30.0	30.0	22.2	7.79	3.851	
950.0	950.0	949.8	949.8	4.1	4.1	89.05	0.5	30.0	30.0	22.1	7.89	3.805	
1,000.0	1,000.0	999.8	999.8	4.1	4.1	89.05	0.5	30.0	30.0	22.0	7.98	3.759	
1,045.0	1,045.0	1,044.8	1,044.8	4.2	4.2	89.05	0.5	30.0	30.0	21.9	8.07	3.720	
1,100.0	1,100.0	1,099.8	1,099.8	4.2	4.2	89.05	0.5	30.0	30.0	21.8	8.17	3.673	
1,140.0	1,140.0	1,139.8	1,139.8	4.3	4.3	89.05	0.5	30.0	30.0	21.8	8.24	3.640	
1,200.0	1,200.0	1,199.8	1,199.8	4.4	4.4	89.05	0.5	30.0	30.0	21.7	8.35	3.592	
1,235.0	1,235.0	1,234.8	1,234.8	4.4	4.4	89.05	0.5	30.0	30.0	21.6	8.41	3.566	
1,300.0	1,300.0	1,299.8	1,299.8	4.5	4.5	89.05	0.5	30.0	30.0	21.5	8.53	3.517	
1,330.0	1,330.0	1,329.8	1,329.8	4.5	4.5	89.05	0.5	30.0	30.0	21.4	8.58	3.495	
1,400.0	1,400.0	1,399.8	1,399.8	4.6	4.6	89.05	0.5	30.0	30.0	21.3	8.71	3.446	
1,425.0	1,425.0	1,424.8	1,424.8	4.6	4.6	89.05	0.5	30.0	30.0	21.3	8.75	3.429	
1,500.0	1,500.0	1,499.8	1,499.8	4.7	4.7	89.05	0.5	30.0	30.0	21.1	8.88	3.379 CC	
1,520.0	1,520.0	1,519.9	1,519.9	4.7	4.8	155.24	0.6	30.0	30.0	21.1	8.93	3.362 ES, SF	
1,600.0	1,600.0	1,600.2	1,600.2	4.8	4.9	153.72	2.1	29.2	30.8	21.7	9.15	3.369	
1,615.0	1,615.0	1,615.3	1,615.3	4.9	4.9	153.23	2.6	29.0	31.1	21.9	9.22	3.376	
1,700.0	1,699.8	1,700.6	1,700.4	5.0	5.2	149.45	6.8	26.8	33.5	23.9	9.57	3.496	
1,710.0	1,709.8	1,710.6	1,710.4	5.1	5.2	148.92	7.4	26.5	33.8	24.2	9.61	3.520	
1,800.0	1,799.5	1,800.8	1,800.2	5.3	5.4	143.69	14.6	22.9	38.2	28.2	9.97	3.828	
1,805.0	1,804.4	1,805.8	1,805.2	5.3	5.5	143.39	15.1	22.6	38.5	28.5	9.99	3.850	
1,900.0	1,898.7	1,900.7	1,899.4	5.6	5.7	137.71	25.5	17.4	45.2	34.9	10.35	4.368	
1,995.0	1,992.5	1,995.4	1,992.9	5.9	6.0	132.59	38.6	10.7	54.2	43.5	10.70	5.065	
2,000.0	1,997.5	2,000.4	1,997.8	5.9	6.1	132.34	39.4	10.3	54.7	44.0	10.72	5.107	
2,090.0	2,085.8	2,089.7	2,085.5	6.2	6.4	128.27	54.5	2.7	65.4	54.4	11.05	5.924	
2,100.0	2,095.6	2,099.6	2,095.2	6.3	6.4	127.87	56.3	1.8	66.8	55.7	11.08	6.024	
2,185.0	2,178.5	2,183.6	2,177.3	6.6	6.6	125.19	72.4	-6.4	78.9	67.5	11.35	6.950	
2,200.0	2,193.0	2,198.4	2,191.7	6.6	6.6	124.94	75.3	-7.8	81.2	69.8	11.40	7.121	
2,280.0	2,270.7	2,277.5	2,268.9	6.9	6.9	124.05	90.5	-15.6	93.6	81.9	11.70	8.001	
2,300.0	2,290.1	2,297.2	2,288.2	6.9	6.9	123.86	94.4	-17.5	96.7	84.9	11.77	8.213	
2,375.0	2,362.9	2,371.3	2,360.5	7.2	7.2	123.26	108.7	-24.7	108.4	96.3	12.06	8.982	
2,400.0	2,387.1	2,396.0	2,384.6	7.3	7.2	123.08	113.4	-27.1	112.3	100.1	12.16	9.231	
2,470.0	2,455.0	2,465.1	2,452.1	7.5	7.5	122.66	126.8	-33.9	123.1	110.7	12.44	9.899	
2,500.0	2,484.1	2,494.8	2,481.0	7.6	7.6	122.49	132.5	-36.8	127.8	115.3	12.56	10.176	

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 #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #806H	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 #805H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9240-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)			
2,565.0	2,547.2	2,559.0	2,543.7	7.8	7.8	122.18	144.9	-43.1	137.9	125.1	12.83	10.754	
2,600.0	2,581.2	2,593.5	2,577.5	8.0	7.9	122.03	151.6	-46.4	143.4	130.4	12.97	11.055	
2,660.0	2,639.4	2,652.8	2,635.3	8.2	8.1	121.80	163.1	-52.2	152.7	139.5	13.22	11.552	
2,700.0	2,678.2	2,692.3	2,673.9	8.3	8.3	121.66	170.7	-56.1	159.0	145.6	13.39	11.872	
2,755.0	2,731.6	2,746.6	2,726.9	8.5	8.5	121.49	181.2	-61.4	167.5	153.9	13.62	12.296	
2,800.0	2,775.2	2,791.1	2,770.3	8.7	8.7	121.36	189.8	-65.8	174.5	160.7	13.82	12.632	
2,850.0	2,823.7	2,840.5	2,818.6	8.9	8.9	121.23	199.3	-70.6	182.3	168.3	14.04	12.991	
2,900.0	2,872.3	2,889.9	2,866.8	9.1	9.0	121.11	208.9	-75.4	190.1	175.9	14.25	13.338	
2,945.0	2,915.9	2,934.3	2,910.2	9.3	9.2	121.00	217.4	-79.7	197.1	182.7	14.45	13.640	
3,000.0	2,969.3	2,988.6	2,963.2	9.5	9.4	120.89	227.9	-85.1	205.7	191.0	14.70	13.996	
3,040.0	3,008.1	3,028.1	3,001.8	9.7	9.6	120.81	235.6	-88.9	212.0	197.1	14.88	14.246	
3,100.0	3,066.3	3,087.4	3,059.6	9.9	9.8	120.70	247.0	-94.7	221.3	206.2	15.15	14.609	
3,135.0	3,100.3	3,122.0	3,093.4	10.1	10.0	120.65	253.7	-98.1	226.8	211.5	15.31	14.814	
3,200.0	3,163.4	3,186.2	3,156.1	10.4	10.2	120.54	266.1	-104.4	236.9	221.3	15.61	15.181	
3,230.0	3,192.5	3,215.8	3,185.0	10.5	10.4	120.50	271.8	-107.3	241.6	225.8	15.74	15.345	
3,300.0	3,260.4	3,285.0	3,252.5	10.8	10.6	120.40	285.2	-114.0	252.5	236.4	16.07	15.715	
3,325.0	3,284.6	3,309.7	3,276.6	10.9	10.7	120.37	290.0	-116.4	256.4	240.2	16.18	15.843	
3,400.0	3,357.4	3,383.7	3,348.9	11.2	11.1	120.28	304.3	-123.7	268.1	251.6	16.53	16.215	
3,420.0	3,376.8	3,403.5	3,368.2	11.3	11.1	120.25	308.1	-125.6	271.2	254.6	16.63	16.311	
3,500.0	3,454.4	3,482.5	3,445.4	11.7	11.5	120.17	323.3	-133.3	283.7	266.7	17.01	16.682	
3,515.0	3,469.0	3,497.3	3,459.8	11.7	11.5	120.15	326.2	-134.8	286.0	269.0	17.08	16.750	
3,600.0	3,551.5	3,581.3	3,541.8	12.1	11.9	120.07	342.4	-143.0	299.3	281.8	17.48	17.121	
3,610.0	3,561.2	3,591.2	3,551.4	12.1	11.9	120.06	344.3	-143.9	300.9	283.3	17.53	17.163	
3,700.0	3,648.5	3,680.1	3,638.2	12.5	12.3	119.98	361.5	-152.6	314.9	296.9	17.96	17.532	
3,705.0	3,653.4	3,685.0	3,643.1	12.6	12.4	119.97	362.5	-153.1	315.7	297.7	17.99	17.552	
3,800.0	3,745.5	3,778.8	3,734.7	13.0	12.8	119.90	380.6	-162.3	330.5	312.1	18.44	17.919	
3,895.0	3,837.7	3,872.7	3,826.3	13.4	13.2	119.83	398.7	-171.5	345.3	326.4	18.91	18.265	
3,900.0	3,842.6	3,877.6	3,831.1	13.4	13.2	119.82	399.7	-171.9	346.1	327.2	18.93	18.282	
3,990.0	3,929.9	3,966.5	3,917.9	13.8	13.6	119.76	416.8	-180.6	360.1	340.8	19.37	18.591	
4,000.0	3,939.6	3,976.4	3,927.5	13.9	13.6	119.75	418.8	-181.6	361.7	342.3	19.42	18.625	
4,085.0	4,022.1	4,060.3	4,009.5	14.3	14.0	119.70	435.0	-189.8	375.0	355.1	19.83	18.908	
4,100.0	4,036.6	4,075.2	4,024.0	14.3	14.1	119.69	437.8	-191.2	377.3	357.4	19.90	18.957	
4,180.0	4,114.2	4,155.6	4,102.6	14.7	14.4	119.76	452.7	-198.8	389.7	369.4	20.30	19.200	
4,200.0	4,133.6	4,175.7	4,122.4	14.8	14.5	119.83	456.1	-200.5	392.7	372.3	20.40	19.252	
4,275.0	4,206.4	4,251.4	4,196.9	15.1	14.9	120.25	467.8	-206.4	403.9	383.2	20.79	19.434	
4,300.0	4,230.7	4,276.6	4,221.8	15.3	15.0	120.45	471.3	-208.2	407.6	386.7	20.92	19.489	
4,370.0	4,298.6	4,347.0	4,291.6	15.6	15.3	121.15	480.1	-212.6	417.8	396.5	21.28	19.630	
4,400.0	4,327.7	4,377.2	4,321.5	15.7	15.4	121.50	483.4	-214.3	422.1	400.7	21.44	19.685	
4,465.0	4,390.8	4,442.3	4,386.2	16.0	15.7	122.40	489.6	-217.4	431.4	409.6	21.80	19.793	
4,500.0	4,424.7	4,477.2	4,421.0	16.2	15.8	122.94	492.3	-218.8	436.4	414.4	21.99	19.844	
4,560.0	4,483.0	4,536.9	4,480.6	16.5	16.1	123.97	496.1	-220.7	445.0	422.6	22.33	19.925	
4,600.0	4,521.8	4,576.5	4,520.1	16.7	16.2	124.72	498.1	-221.7	450.7	428.1	22.57	19.972	
4,655.0	4,575.1	4,630.7	4,574.3	16.9	16.4	125.82	499.9	-222.7	458.7	435.8	22.90	20.029	
4,700.0	4,618.8	4,674.9	4,618.4	17.1	16.5	126.79	500.8	-223.1	465.3	442.1	23.18	20.071	
4,750.0	4,667.3	4,723.6	4,667.1	17.4	16.6	127.91	501.0	-223.2	472.8	449.3	23.50	20.119	
4,800.0	4,715.8	4,772.1	4,715.6	17.6	16.6	129.03	501.0	-223.2	480.4	456.6	23.83	20.164	
4,845.0	4,759.5	4,815.8	4,759.3	17.8	16.7	130.01	501.0	-223.2	487.5	463.4	24.13	20.202	
4,900.0	4,812.9	4,869.1	4,812.7	18.1	16.7	131.16	501.0	-223.2	496.3	471.8	24.51	20.246	
4,940.0	4,851.7	4,907.9	4,851.5	18.2	16.7	131.98	501.0	-223.2	502.8	478.0	24.80	20.278	
5,000.0	4,909.9	4,966.1	4,909.7	18.5	16.7	133.17	501.0	-223.2	512.8	487.6	25.23	20.328	
5,035.0	4,943.8	5,000.1	4,943.6	18.7	16.8	133.84	501.0	-223.2	518.7	493.2	25.48	20.357	

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 #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #806H	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 #805H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9240-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
5,100.0	5,006.9	5,063.2	5,006.7	19.0	16.8	135.05	501.0	-223.2	529.9	503.9	25.96	20.415	
5,130.0	5,036.0	5,092.3	5,035.8	19.1	16.8	135.59	501.0	-223.2	535.1	509.0	26.18	20.443	
5,200.0	5,103.9	5,160.2	5,103.7	19.5	16.8	136.81	501.0	-223.2	547.5	520.8	26.70	20.510	
5,225.0	5,128.2	5,184.5	5,128.0	19.6	16.9	137.23	501.0	-223.2	552.0	525.1	26.88	20.535	
5,300.0	5,201.0	5,257.2	5,200.8	19.9	16.9	138.47	501.0	-223.2	565.7	538.2	27.44	20.613	
5,320.0	5,220.4	5,276.6	5,220.2	20.0	16.9	138.79	501.0	-223.2	569.3	541.7	27.59	20.635	
5,400.0	5,298.0	5,354.3	5,297.8	20.4	17.0	140.02	501.0	-223.2	584.2	556.0	28.19	20.725	
5,415.0	5,312.6	5,368.8	5,312.4	20.5	17.0	140.25	501.0	-223.2	587.0	558.7	28.30	20.742	
5,500.0	5,395.0	5,451.3	5,394.8	20.9	17.0	141.48	501.0	-223.2	603.2	574.2	28.94	20.845	
5,510.0	5,404.7	5,461.0	5,404.5	20.9	17.0	141.62	501.0	-223.2	605.1	576.1	29.01	20.857	
5,600.0	5,492.1	5,548.3	5,491.9	21.4	17.1	142.85	501.0	-223.2	622.5	592.8	29.68	20.973	
5,605.0	5,496.9	5,553.2	5,496.7	21.4	17.1	142.92	501.0	-223.2	623.5	593.8	29.72	20.979	
5,700.0	5,589.1	5,645.4	5,588.9	21.8	17.1	144.14	501.0	-223.2	642.1	611.7	30.42	21.108	
5,795.0	5,681.3	5,737.5	5,681.1	22.3	17.2	145.30	501.0	-223.2	661.1	630.0	31.12	21.242	
5,800.0	5,686.1	5,742.4	5,685.9	22.3	17.2	145.36	501.0	-223.2	662.1	630.9	31.16	21.250	
5,890.0	5,773.5	5,829.7	5,773.3	22.8	17.2	146.39	501.0	-223.2	680.3	648.5	31.82	21.382	
5,900.0	5,783.2	5,839.4	5,783.0	22.8	17.2	146.50	501.0	-223.2	682.3	650.4	31.89	21.397	
5,985.0	5,865.6	5,921.9	5,865.4	23.2	17.3	147.42	501.0	-223.2	699.7	667.2	32.50	21.527	
6,000.0	5,880.2	5,936.4	5,880.0	23.3	17.3	147.58	501.0	-223.2	702.8	670.2	32.61	21.550	
6,080.0	5,957.8	6,014.1	5,957.6	23.7	17.3	148.40	501.0	-223.2	719.4	686.2	33.19	21.675	
6,100.0	5,977.2	6,033.5	5,977.0	23.8	17.3	148.60	501.0	-223.2	723.5	690.2	33.33	21.707	
6,175.0	6,050.0	6,106.2	6,049.8	24.1	17.4	149.33	501.0	-223.2	739.2	705.3	33.87	21.827	
6,200.0	6,074.2	6,130.5	6,074.0	24.2	17.4	149.56	501.0	-223.2	744.4	710.4	34.04	21.867	
6,270.0	6,142.2	6,198.4	6,142.0	24.6	17.4	150.21	501.0	-223.2	759.2	724.6	34.54	21.982	
6,300.0	6,171.3	6,227.5	6,171.1	24.7	17.5	150.47	501.0	-223.2	765.5	730.8	34.75	22.031	
6,365.0	6,234.3	6,290.6	6,234.1	25.0	17.5	151.04	501.0	-223.2	779.4	744.2	35.20	22.139	
6,400.0	6,268.3	6,324.6	6,268.1	25.2	17.5	151.34	501.0	-223.2	786.8	751.4	35.45	22.197	
6,460.0	6,326.5	6,382.8	6,326.3	25.5	17.5	151.83	501.0	-223.2	799.7	763.8	35.86	22.301	
6,479.0	6,345.0	6,401.2	6,344.8	25.6	17.6	151.99	501.0	-223.2	803.8	767.8	35.99	22.334	
6,500.0	6,365.3	6,421.6	6,365.1	25.7	17.6	152.19	501.0	-223.2	808.2	772.1	36.13	22.371	
6,555.0	6,418.9	6,475.2	6,418.7	25.9	17.6	152.70	501.0	-223.2	819.3	782.8	36.50	22.444	
6,600.0	6,462.9	6,519.2	6,462.7	26.2	17.6	153.07	501.0	-223.2	827.7	790.8	36.80	22.489	
6,650.0	6,512.0	6,568.3	6,511.8	26.4	17.7	153.45	501.0	-223.2	836.3	799.1	37.12	22.528	
6,700.0	6,561.2	6,617.5	6,561.0	26.6	17.7	153.78	501.0	-223.2	844.1	806.7	37.43	22.550	
6,745.0	6,605.7	6,661.9	6,605.5	26.8	17.7	154.05	501.0	-223.2	850.6	812.9	37.70	22.561	
6,800.0	6,660.1	6,716.4	6,659.9	27.1	17.7	154.34	501.0	-223.2	857.6	819.6	38.02	22.556	
6,840.0	6,699.8	6,756.1	6,699.6	27.3	17.8	154.52	501.0	-223.2	862.1	823.9	38.24	22.545	
6,900.0	6,759.5	6,815.7	6,759.3	27.5	17.8	154.76	501.0	-223.2	867.9	829.4	38.56	22.509	
6,935.0	6,794.3	6,850.6	6,794.1	27.7	17.8	154.87	501.0	-223.2	870.8	832.1	38.73	22.484	
7,000.0	6,859.1	6,915.4	6,858.9	27.9	17.9	155.04	501.0	-223.2	875.2	836.1	39.04	22.415	
7,030.0	6,889.1	6,945.3	6,888.9	28.0	17.9	155.10	501.0	-223.2	876.7	837.6	39.17	22.382	
7,100.0	6,959.0	7,015.3	6,958.8	28.3	17.9	155.20	501.0	-223.2	879.2	839.8	39.46	22.281	
7,125.0	6,984.0	7,040.3	6,983.8	28.3	17.9	155.22	501.0	-223.2	879.8	840.3	39.52	22.262	
7,179.0	7,038.0	7,094.3	7,037.8	28.4	18.0	88.98	501.0	-223.2	880.2	840.6	39.64	22.204	
7,200.0	7,059.0	7,115.3	7,058.8	28.4	18.0	88.98	501.0	-223.2	880.2	840.6	39.66	22.194	
7,220.0	7,079.0	7,135.3	7,078.8	28.4	18.0	88.98	501.0	-223.2	880.2	840.6	39.68	22.182	
7,300.0	7,159.0	7,215.3	7,158.8	28.4	18.0	88.98	501.0	-223.2	880.2	840.5	39.77	22.132	
7,315.0	7,174.0	7,230.3	7,173.8	28.4	18.0	88.98	501.0	-223.2	880.2	840.4	39.79	22.123	
7,400.0	7,259.0	7,315.3	7,258.8	28.4	18.1	88.98	501.0	-223.2	880.2	840.4	39.88	22.071	
7,410.0	7,269.0	7,325.3	7,268.8	28.4	18.1	88.98	501.0	-223.2	880.2	840.3	39.89	22.065	
7,500.0	7,359.0	7,415.3	7,358.8	28.5	18.2	88.98	501.0	-223.2	880.2	840.2	39.99	22.009	

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 #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #806H	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 #805H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9240-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Reference	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 (usft)		
7,505.0	7,364.0	7,420.3	7,363.8	28.5	18.2	88.98	501.0	-223.2	880.2	840.2	40.00	22.006	
7,600.0	7,459.0	7,515.3	7,458.8	28.5	18.2	88.98	501.0	-223.2	880.2	840.1	40.11	21.948	
7,695.0	7,554.0	7,610.3	7,553.8	28.5	18.3	88.98	501.0	-223.2	880.2	840.0	40.21	21.890	
7,700.0	7,559.0	7,615.3	7,558.8	28.5	18.3	88.98	501.0	-223.2	880.2	840.0	40.22	21.887	
7,790.0	7,649.0	7,705.3	7,648.8	28.6	18.3	88.98	501.0	-223.2	880.2	839.9	40.32	21.832	
7,800.0	7,659.0	7,715.3	7,658.8	28.6	18.3	88.98	501.0	-223.2	880.2	839.9	40.33	21.826	
7,885.0	7,744.0	7,800.3	7,743.8	28.6	18.4	88.98	501.0	-223.2	880.2	839.8	40.42	21.775	
7,900.0	7,759.0	7,815.3	7,758.8	28.6	18.4	88.98	501.0	-223.2	880.2	839.8	40.44	21.766	
7,980.0	7,839.0	7,895.3	7,838.8	28.6	18.4	88.98	501.0	-223.2	880.2	839.7	40.53	21.717	
8,000.0	7,859.0	7,915.3	7,858.8	28.6	18.5	88.98	501.0	-223.2	880.2	839.7	40.55	21.705	
8,075.0	7,934.0	7,990.3	7,933.8	28.7	18.5	88.98	501.0	-223.2	880.2	839.6	40.64	21.660	
8,100.0	7,959.0	8,015.3	7,958.8	28.7	18.5	88.98	501.0	-223.2	880.2	839.6	40.67	21.645	
8,170.0	8,029.0	8,085.3	8,028.8	28.7	18.6	88.98	501.0	-223.2	880.2	839.5	40.75	21.603	
8,200.0	8,059.0	8,115.3	8,058.8	28.7	18.6	88.98	501.0	-223.2	880.2	839.5	40.78	21.585	
8,265.0	8,124.0	8,180.3	8,123.8	28.7	18.6	88.98	501.0	-223.2	880.2	839.4	40.85	21.546	
8,300.0	8,159.0	8,215.3	8,158.8	28.7	18.6	88.98	501.0	-223.2	880.2	839.3	40.89	21.525	
8,360.0	8,219.0	8,275.3	8,218.8	28.8	18.7	88.98	501.0	-223.2	880.2	839.3	40.96	21.490	
8,400.0	8,259.0	8,315.3	8,258.8	28.8	18.7	88.98	501.0	-223.2	880.2	839.2	41.01	21.466	
8,455.0	8,314.0	8,370.3	8,313.8	28.8	18.7	88.98	501.0	-223.2	880.2	839.2	41.07	21.433	
8,500.0	8,359.0	8,415.3	8,358.8	28.8	18.8	88.98	501.0	-223.2	880.2	839.1	41.12	21.406	
8,550.0	8,409.0	8,465.3	8,408.8	28.8	18.8	88.98	501.0	-223.2	880.2	839.1	41.18	21.377	
8,600.0	8,459.0	8,515.3	8,458.8	28.8	18.8	88.98	501.0	-223.2	880.2	839.0	41.23	21.347	
8,645.0	8,504.0	8,560.3	8,503.8	28.8	18.9	88.98	501.0	-223.2	880.2	839.0	41.29	21.321	
8,700.0	8,559.0	8,615.3	8,558.8	28.9	18.9	88.98	501.0	-223.2	880.2	838.9	41.35	21.288	
8,740.0	8,599.0	8,655.3	8,598.8	28.9	18.9	88.98	501.0	-223.2	880.2	838.8	41.39	21.265	
8,800.0	8,659.0	8,715.3	8,658.8	28.9	19.0	88.98	501.0	-223.2	880.2	838.8	41.46	21.230	
8,835.0	8,694.0	8,750.3	8,693.8	28.9	19.0	88.98	501.0	-223.2	880.2	838.7	41.50	21.209	
8,900.0	8,759.0	8,815.3	8,758.8	28.9	19.0	88.98	501.0	-223.2	880.2	838.7	41.58	21.171	
8,930.0	8,789.0	8,845.3	8,788.8	28.9	19.0	88.98	501.0	-223.2	880.2	838.6	41.61	21.154	
9,000.0	8,859.0	8,915.3	8,858.8	29.0	19.1	88.98	501.0	-223.2	880.2	838.5	41.69	21.113	
9,025.0	8,884.0	8,940.3	8,883.8	29.0	19.1	88.98	501.0	-223.2	880.2	838.5	41.72	21.098	
9,100.0	8,959.0	9,015.3	8,958.8	29.0	19.1	88.98	501.0	-223.2	880.2	838.4	41.81	21.055	
9,120.0	8,979.0	9,035.3	8,978.8	29.0	19.2	88.98	501.0	-223.2	880.2	838.4	41.83	21.043	
9,200.0	9,059.0	9,115.3	9,058.8	29.0	19.2	88.98	501.0	-223.2	880.2	838.3	41.92	20.997	
9,215.0	9,074.0	9,130.3	9,073.8	29.0	19.2	88.98	501.0	-223.2	880.2	838.3	41.94	20.988	
9,308.0	9,167.0	9,223.3	9,166.8	29.1	19.3	88.98	501.0	-223.2	880.2	838.2	42.03	20.941	
9,310.0	9,169.0	9,225.3	9,168.8	29.1	19.3	-91.52	501.0	-223.2	880.2	838.2	42.04	20.940	
9,350.0	9,209.0	9,266.4	9,209.9	29.1	19.3	-91.58	500.4	-223.2	880.3	838.2	42.04	20.939	
9,400.0	9,258.6	9,318.6	9,261.9	29.1	19.3	-91.66	495.5	-223.2	880.3	838.2	42.05	20.934	
9,405.0	9,263.5	9,323.9	9,267.1	29.1	19.3	-91.67	494.8	-223.3	880.3	838.3	42.05	20.934	
9,450.0	9,307.6	9,371.0	9,313.4	29.1	19.4	-91.73	486.0	-223.3	880.3	838.3	42.06	20.930	
9,500.0	9,355.4	9,423.5	9,363.9	29.1	19.5	-91.78	471.7	-223.5	880.4	838.3	42.07	20.926	
9,550.0	9,401.9	9,476.0	9,412.9	29.1	19.5	-91.82	452.9	-223.6	880.4	838.3	42.08	20.921	
9,595.0	9,442.2	9,523.3	9,455.4	29.1	19.6	-91.84	432.1	-223.8	880.4	838.3	42.09	20.915	
9,600.0	9,446.5	9,528.6	9,460.0	29.1	19.6	-91.84	429.6	-223.8	880.4	838.3	42.10	20.914	
9,650.0	9,489.1	9,581.2	9,504.9	29.2	19.6	-91.85	402.1	-224.1	880.4	838.3	42.11	20.906	
9,690.0	9,521.3	9,623.3	9,538.8	29.2	19.7	-91.85	377.2	-224.3	880.4	838.3	42.13	20.897	
9,700.0	9,529.1	9,633.8	9,547.0	29.2	19.7	-91.85	370.6	-224.4	880.4	838.3	42.13	20.895	
9,750.0	9,566.5	9,686.4	9,586.0	29.2	19.8	-91.83	335.4	-224.7	880.4	838.2	42.16	20.882	
9,785.0	9,590.8	9,723.2	9,611.3	29.2	19.8	-91.80	308.7	-224.9	880.4	838.2	42.18	20.870	
9,800.0	9,600.7	9,739.0	9,621.6	29.2	19.8	-91.79	296.8	-225.0	880.4	838.2	42.19	20.865	

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 #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #806H	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 #805H - OWB - PWP1														Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9240-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		
9,850.0	9,631.7	9,791.4	9,653.5	29.2	19.9	-91.74	255.1	-225.4	880.3	838.1	42.23	20.844			
9,880.0	9,648.6	9,822.9	9,670.7	29.3	19.9	-91.70	228.8	-225.6	880.3	838.1	42.26	20.829			
9,900.0	9,659.2	9,843.8	9,681.4	29.3	19.9	-91.68	210.8	-225.8	880.3	838.0	42.28	20.819			
9,950.0	9,682.9	9,896.1	9,705.1	29.3	20.0	-91.60	164.2	-226.2	880.3	837.9	42.34	20.789			
9,975.0	9,693.3	9,922.2	9,715.3	29.3	20.0	-91.56	140.2	-226.4	880.3	837.9	42.38	20.772			
10,000.0	9,702.6	9,948.3	9,724.4	29.3	20.0	-91.51	115.7	-226.6	880.2	837.8	42.41	20.754			
10,050.0	9,718.3	10,000.3	9,739.2	29.4	20.1	-91.41	65.9	-227.1	880.2	837.7	42.49	20.715			
10,070.0	9,723.5	10,021.1	9,743.8	29.4	20.1	-91.37	45.7	-227.2	880.2	837.7	42.53	20.697			
10,100.0	9,729.8	10,052.2	9,749.4	29.4	20.1	-91.30	15.1	-227.5	880.2	837.6	42.58	20.672			
10,150.0	9,737.1	10,103.8	9,754.9	29.5	20.1	-91.18	-36.3	-228.0	880.1	837.4	42.67	20.624			
10,165.0	9,738.4	10,119.3	9,755.6	29.5	20.1	-91.14	-51.7	-228.1	880.1	837.4	42.71	20.609			
10,200.0	9,739.9	10,154.9	9,756.0	29.5	20.2	-91.06	-87.3	-228.4	880.1	837.3	42.77	20.575			
10,207.4	9,740.0	10,162.2	9,756.0	29.5	20.2	-91.06	-94.7	-228.5	880.1	837.3	42.79	20.568			
10,207.7	9,740.0	10,162.6	9,756.0	29.5	20.2	-91.06	-95.0	-228.5	880.1	837.3	42.79	20.568			
10,260.0	9,740.0	10,214.9	9,756.1	29.6	20.2	-91.06	-147.3	-229.0	880.1	837.2	42.91	20.508			
10,300.0	9,740.0	10,254.9	9,756.1	29.6	20.2	-91.06	-187.3	-229.3	880.1	837.1	43.02	20.457			
10,355.0	9,740.1	10,309.9	9,756.1	29.7	20.2	-91.06	-242.3	-229.8	880.1	836.9	43.18	20.379			
10,400.0	9,740.1	10,354.9	9,756.2	29.7	20.3	-91.06	-287.3	-230.2	880.1	836.8	43.33	20.310			
10,450.0	9,740.1	10,404.9	9,756.2	29.8	20.3	-91.06	-337.3	-230.6	880.1	836.6	43.51	20.229			
10,500.0	9,740.2	10,454.9	9,756.2	29.9	20.3	-91.06	-387.3	-231.1	880.1	836.4	43.70	20.141			
10,545.0	9,740.2	10,499.9	9,756.3	30.0	20.3	-91.06	-432.3	-231.5	880.1	836.2	43.88	20.058			
10,600.0	9,740.2	10,554.9	9,756.3	30.1	20.4	-91.06	-487.3	-232.0	880.1	836.0	44.12	19.950			
10,640.0	9,740.2	10,594.9	9,756.4	30.1	20.4	-91.06	-527.3	-232.3	880.1	835.8	44.30	19.868			
10,700.0	9,740.3	10,654.9	9,756.4	30.2	20.5	-91.06	-587.3	-232.9	880.1	835.5	44.58	19.740			
10,735.0	9,740.3	10,689.9	9,756.4	30.3	20.5	-91.06	-622.3	-233.2	880.1	835.3	44.76	19.662			
10,800.0	9,740.3	10,754.9	9,756.5	30.4	20.6	-91.07	-687.3	-233.7	880.1	835.0	45.10	19.513			
10,830.0	9,740.3	10,784.9	9,756.5	30.5	20.6	-91.07	-717.3	-234.0	880.1	834.8	45.27	19.441			
10,900.0	9,740.4	10,854.9	9,756.6	30.6	20.7	-91.07	-787.3	-234.6	880.1	834.4	45.67	19.271			
10,925.0	9,740.4	10,879.9	9,756.6	30.7	20.7	-91.07	-812.3	-234.9	880.1	834.3	45.82	19.208			
11,000.0	9,740.4	10,954.9	9,756.6	30.8	20.8	-91.07	-887.3	-235.5	880.1	833.8	46.28	19.016			
11,020.0	9,740.4	10,974.9	9,756.7	30.9	20.8	-91.07	-907.3	-235.7	880.1	833.7	46.41	18.964			
11,100.0	9,740.5	11,054.9	9,756.7	31.1	20.9	-91.07	-987.3	-236.4	880.1	833.2	46.93	18.752			
11,115.0	9,740.5	11,069.9	9,756.7	31.1	20.9	-91.07	-1,002.3	-236.5	880.1	833.1	47.04	18.711			
11,200.0	9,740.5	11,154.9	9,756.8	31.3	21.1	-91.07	-1,087.3	-237.3	880.1	832.5	47.63	18.478			
11,210.0	9,740.5	11,164.9	9,756.8	31.3	21.1	-91.07	-1,097.3	-237.4	880.1	832.4	47.70	18.450			
11,300.0	9,740.6	11,254.9	9,756.9	31.6	21.3	-91.07	-1,187.3	-238.2	880.1	831.7	48.36	18.198			
11,305.0	9,740.6	11,259.9	9,756.9	31.6	21.3	-91.07	-1,192.3	-238.2	880.1	831.7	48.40	18.184			
11,400.0	9,740.6	11,354.9	9,757.0	31.8	21.5	-91.08	-1,287.3	-239.1	880.1	831.0	49.13	17.913			
11,495.0	9,740.7	11,449.9	9,757.0	32.1	21.7	-91.08	-1,382.2	-239.9	880.1	830.2	49.90	17.639			
11,500.0	9,740.7	11,454.9	9,757.0	32.1	21.7	-91.08	-1,387.2	-240.0	880.1	830.2	49.94	17.625			
11,590.0	9,740.7	11,544.9	9,757.1	32.4	22.0	-91.08	-1,477.2	-240.8	880.1	829.4	50.69	17.363			
11,600.0	9,740.7	11,554.9	9,757.1	32.4	22.0	-91.08	-1,487.2	-240.8	880.1	829.3	50.77	17.334			
11,685.0	9,740.8	11,639.9	9,757.2	32.7	22.3	-91.08	-1,572.2	-241.6	880.1	828.6	51.51	17.086			
11,700.0	9,740.8	11,654.9	9,757.2	32.7	22.3	-91.08	-1,587.2	-241.7	880.1	828.5	51.64	17.042			
11,780.0	9,740.8	11,734.9	9,757.3	33.0	22.6	-91.08	-1,667.2	-242.4	880.1	827.7	52.36	16.809			
11,800.0	9,740.8	11,754.9	9,757.3	33.1	22.6	-91.08	-1,687.2	-242.6	880.1	827.6	52.54	16.751			
11,875.0	9,740.9	11,829.9	9,757.3	33.3	22.9	-91.08	-1,762.2	-243.3	880.1	826.9	53.23	16.533			
11,900.0	9,740.9	11,854.9	9,757.4	33.4	23.0	-91.08	-1,787.2	-243.5	880.1	826.6	53.47	16.461			
11,970.0	9,740.9	11,924.9	9,757.4	33.7	23.3	-91.09	-1,857.2	-244.1	880.1	826.0	54.13	16.259			
12,000.0	9,740.9	11,954.9	9,757.4	33.8	23.4	-91.09	-1,887.2	-244.4	880.1	825.7	54.42	16.173			
12,065.0	9,741.0	12,019.9	9,757.5	34.0	23.7	-91.09	-1,952.2	-245.0	880.1	825.1	55.05	15.987			

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 #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #806H	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 #805H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9240-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
12,100.0	9,741.0	12,054.9	9,757.5	34.1	23.9	-91.09	-1,987.2	-245.3	880.1	824.7	55.39	15.888
12,160.0	9,741.0	12,114.9	9,757.6	34.4	24.2	-91.09	-2,047.2	-245.8	880.1	824.1	55.99	15.718
12,200.0	9,741.1	12,154.9	9,757.6	34.5	24.4	-91.09	-2,087.2	-246.2	880.1	823.7	56.39	15.606
12,255.0	9,741.1	12,209.9	9,757.6	34.7	24.6	-91.09	-2,142.2	-246.7	880.1	823.1	56.96	15.452
12,300.0	9,741.1	12,254.9	9,757.7	34.9	24.9	-91.09	-2,187.2	-247.1	880.1	822.7	57.42	15.328
12,350.0	9,741.1	12,304.9	9,757.7	35.1	25.1	-91.09	-2,237.2	-247.5	880.1	822.2	57.94	15.191
12,400.0	9,741.2	12,354.9	9,757.8	35.3	25.4	-91.09	-2,287.2	-247.9	880.1	821.6	58.46	15.054
12,445.0	9,741.2	12,399.9	9,757.8	35.5	25.6	-91.09	-2,332.2	-248.3	880.1	821.2	58.94	14.933
12,500.0	9,741.2	12,454.9	9,757.8	35.7	25.9	-91.10	-2,387.2	-248.8	880.1	820.6	59.53	14.785
12,540.0	9,741.2	12,494.9	9,757.9	35.9	26.2	-91.10	-2,427.2	-249.2	880.1	820.1	59.96	14.679
12,600.0	9,741.3	12,554.9	9,757.9	36.1	26.5	-91.10	-2,487.2	-249.7	880.1	819.5	60.61	14.521
12,635.0	9,741.3	12,589.9	9,757.9	36.3	26.7	-91.10	-2,522.2	-250.0	880.1	819.1	60.99	14.430
12,700.0	9,741.3	12,654.9	9,758.0	36.6	27.1	-91.10	-2,587.2	-250.6	880.1	818.4	61.71	14.262
12,730.0	9,741.3	12,684.9	9,758.0	36.7	27.2	-91.10	-2,617.2	-250.9	880.1	818.1	62.04	14.185
12,800.0	9,741.4	12,754.9	9,758.1	37.0	27.7	-91.10	-2,687.2	-251.5	880.1	817.3	62.83	14.008
12,825.0	9,741.4	12,779.9	9,758.1	37.1	27.8	-91.10	-2,712.2	-251.7	880.1	817.0	63.11	13.945
12,900.0	9,741.4	12,854.9	9,758.2	37.5	28.3	-91.10	-2,787.2	-252.4	880.1	816.1	63.96	13.760
12,920.0	9,741.4	12,874.9	9,758.2	37.6	28.4	-91.10	-2,807.2	-252.6	880.1	815.9	64.19	13.711
13,000.0	9,741.5	12,954.9	9,758.2	37.9	28.9	-91.10	-2,887.2	-253.3	880.1	815.0	65.11	13.517
13,015.0	9,741.5	12,969.9	9,758.2	38.0	29.0	-91.10	-2,902.2	-253.4	880.1	814.8	65.29	13.481
13,100.0	9,741.5	13,054.9	9,758.3	38.4	29.5	-91.11	-2,987.2	-254.1	880.1	813.8	66.28	13.280
13,110.0	9,741.5	13,064.9	9,758.3	38.5	29.6	-91.11	-2,997.2	-254.2	880.1	813.7	66.39	13.256
13,200.0	9,741.6	13,154.9	9,758.4	38.9	30.1	-91.11	-3,087.2	-255.0	880.1	812.7	67.45	13.048
13,205.0	9,741.6	13,159.9	9,758.4	38.9	30.2	-91.11	-3,092.2	-255.1	880.1	812.6	67.51	13.036
13,300.0	9,741.6	13,254.9	9,758.5	39.4	30.8	-91.11	-3,187.2	-255.9	880.1	811.5	68.64	12.821
13,395.0	9,741.7	13,349.9	9,758.5	39.9	31.4	-91.11	-3,282.2	-256.8	880.1	810.3	69.79	12.611
13,400.0	9,741.7	13,354.9	9,758.5	39.9	31.4	-91.11	-3,287.2	-256.8	880.1	810.3	69.85	12.600
13,490.0	9,741.7	13,444.9	9,758.6	40.3	32.0	-91.11	-3,377.2	-257.6	880.1	809.2	70.94	12.406
13,500.0	9,741.7	13,454.9	9,758.6	40.4	32.1	-91.11	-3,387.2	-257.7	880.1	809.1	71.06	12.385
13,585.0	9,741.8	13,539.9	9,758.7	40.8	32.6	-91.11	-3,472.2	-258.5	880.1	808.0	72.11	12.206
13,600.0	9,741.8	13,554.9	9,758.7	40.9	32.7	-91.11	-3,487.2	-258.6	880.1	807.8	72.29	12.175
13,680.0	9,741.8	13,634.9	9,758.8	41.3	33.3	-91.12	-3,567.2	-259.3	880.1	806.8	73.28	12.010
13,700.0	9,741.8	13,654.9	9,758.8	41.4	33.4	-91.12	-3,587.2	-259.5	880.1	806.6	73.53	11.970
13,775.0	9,741.9	13,729.9	9,758.8	41.8	33.9	-91.12	-3,662.2	-260.1	880.1	805.7	74.46	11.820
13,800.0	9,741.9	13,754.9	9,758.9	42.0	34.1	-91.12	-3,687.2	-260.4	880.1	805.3	74.78	11.770
13,870.0	9,741.9	13,824.9	9,758.9	42.4	34.5	-91.12	-3,757.2	-261.0	880.1	804.5	75.66	11.633
13,900.0	9,742.0	13,854.9	9,758.9	42.5	34.7	-91.12	-3,787.2	-261.2	880.1	804.1	76.03	11.576
13,965.0	9,742.0	13,919.9	9,759.0	42.9	35.2	-91.12	-3,852.1	-261.8	880.1	803.3	76.86	11.452
14,000.0	9,742.0	13,954.9	9,759.0	43.1	35.4	-91.12	-3,887.1	-262.1	880.1	802.8	77.30	11.386
14,060.0	9,742.0	14,014.9	9,759.1	43.4	35.8	-91.12	-3,947.1	-262.7	880.1	802.1	78.06	11.274
14,100.0	9,742.1	14,054.9	9,759.1	43.6	36.1	-91.12	-3,987.1	-263.0	880.1	801.5	78.58	11.201
14,155.0	9,742.1	14,109.9	9,759.1	43.9	36.5	-91.12	-4,042.1	-263.5	880.1	800.8	79.28	11.101
14,200.0	9,742.1	14,154.9	9,759.2	44.2	36.8	-91.12	-4,087.1	-263.9	880.1	800.3	79.86	11.021
14,250.0	9,742.1	14,204.9	9,759.2	44.5	37.1	-91.13	-4,137.1	-264.4	880.1	799.6	80.50	10.933
14,300.0	9,742.2	14,254.9	9,759.3	44.7	37.5	-91.13	-4,187.1	-264.8	880.1	799.0	81.15	10.845
14,345.0	9,742.2	14,299.9	9,759.3	45.0	37.8	-91.13	-4,232.1	-265.2	880.1	798.4	81.74	10.768
14,400.0	9,742.2	14,354.9	9,759.3	45.3	38.2	-91.13	-4,287.1	-265.7	880.1	797.7	82.45	10.675
14,440.0	9,742.2	14,394.9	9,759.4	45.6	38.4	-91.13	-4,327.1	-266.0	880.1	797.2	82.97	10.607
14,500.0	9,742.3	14,454.9	9,759.4	45.9	38.9	-91.13	-4,387.1	-266.6	880.1	796.4	83.76	10.508
14,535.0	9,742.3	14,489.9	9,759.4	46.1	39.1	-91.13	-4,422.1	-266.9	880.1	795.9	84.22	10.451
14,600.0	9,742.3	14,554.9	9,759.5	46.5	39.6	-91.13	-4,487.1	-267.5	880.1	795.1	85.07	10.346

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 #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #806H	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 #805H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9240-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	9,742.3	14,584.9	9,759.5	46.7	39.8	-91.13	-4,517.1	-267.7	880.1	794.7	85.47	10.298
14,700.0	9,742.4	14,654.9	9,759.6	47.1	40.3	-91.13	-4,587.1	-268.3	880.1	793.7	86.39	10.187
14,725.0	9,742.4	14,679.9	9,759.6	47.2	40.4	-91.13	-4,612.1	-268.6	880.1	793.4	86.73	10.148
14,800.0	9,742.4	14,754.9	9,759.7	47.7	41.0	-91.13	-4,687.1	-269.2	880.1	792.4	87.72	10.033
14,820.0	9,742.4	14,774.9	9,759.7	47.8	41.1	-91.13	-4,707.1	-269.4	880.1	792.1	87.99	10.003
14,900.0	9,742.5	14,854.9	9,759.7	48.3	41.7	-91.14	-4,787.1	-270.1	880.1	791.1	89.05	9.883
14,915.0	9,742.5	14,869.9	9,759.7	48.4	41.8	-91.14	-4,802.1	-270.3	880.1	790.9	89.26	9.861
15,000.0	9,742.5	14,954.9	9,759.8	48.9	42.4	-91.14	-4,887.1	-271.0	880.1	789.7	90.39	9.737
15,010.0	9,742.5	14,964.9	9,759.8	48.9	42.5	-91.14	-4,897.1	-271.1	880.1	789.6	90.53	9.722
15,100.0	9,742.6	15,054.9	9,759.9	49.5	43.1	-91.14	-4,987.1	-271.9	880.1	788.4	91.74	9.594
15,105.0	9,742.6	15,059.9	9,759.9	49.5	43.1	-91.14	-4,992.1	-271.9	880.1	788.3	91.81	9.587
15,200.0	9,742.6	15,154.9	9,760.0	50.1	43.8	-91.14	-5,087.1	-272.8	880.1	787.0	93.09	9.455
15,295.0	9,742.7	15,249.9	9,760.0	50.7	44.5	-91.14	-5,182.1	-273.6	880.1	785.8	94.38	9.326
15,300.0	9,742.7	15,254.9	9,760.1	50.7	44.5	-91.14	-5,187.1	-273.7	880.1	785.7	94.45	9.319
15,390.0	9,742.7	15,344.9	9,760.1	51.3	45.2	-91.14	-5,277.1	-274.5	880.1	784.5	95.67	9.200
15,400.0	9,742.7	15,354.9	9,760.1	51.3	45.2	-91.14	-5,287.1	-274.6	880.1	784.3	95.81	9.187
15,485.0	9,742.8	15,439.9	9,760.2	51.9	45.8	-91.15	-5,372.1	-275.3	880.1	783.2	96.97	9.077
15,500.0	9,742.8	15,454.9	9,760.2	52.0	46.0	-91.15	-5,387.1	-275.4	880.1	783.0	97.17	9.057
15,580.0	9,742.8	15,534.9	9,760.3	52.5	46.5	-91.15	-5,467.1	-276.2	880.1	781.9	98.27	8.956
15,600.0	9,742.9	15,554.9	9,760.3	52.6	46.7	-91.15	-5,487.1	-276.3	880.1	781.6	98.54	8.932
15,675.0	9,742.9	15,629.9	9,760.4	53.1	47.2	-91.15	-5,562.1	-277.0	880.1	780.6	99.57	8.839
15,700.0	9,742.9	15,654.9	9,760.4	53.2	47.4	-91.15	-5,587.1	-277.2	880.1	780.2	99.92	8.809
15,770.0	9,742.9	15,724.9	9,760.4	53.7	47.9	-91.15	-5,657.1	-277.8	880.1	779.3	100.88	8.724
15,800.0	9,743.0	15,754.9	9,760.4	53.9	48.1	-91.15	-5,687.1	-278.1	880.1	778.8	101.30	8.689
15,865.0	9,743.0	15,819.9	9,760.5	54.3	48.6	-91.15	-5,752.1	-278.7	880.1	777.9	102.20	8.612
15,900.0	9,743.0	15,854.9	9,760.5	54.5	48.8	-91.15	-5,787.1	-279.0	880.1	777.5	102.68	8.572
15,960.0	9,743.0	15,914.9	9,760.6	54.9	49.3	-91.15	-5,847.1	-279.5	880.1	776.6	103.51	8.503
16,000.0	9,743.1	15,954.9	9,760.6	55.2	49.6	-91.16	-5,887.1	-279.9	880.1	776.1	104.07	8.458
16,055.0	9,743.1	16,009.9	9,760.7	55.5	50.0	-91.16	-5,942.1	-280.4	880.1	775.3	104.83	8.396
16,100.0	9,743.1	16,054.9	9,760.7	55.8	50.3	-91.16	-5,987.1	-280.8	880.1	774.7	105.46	8.346
16,150.0	9,743.1	16,104.9	9,760.7	56.1	50.7	-91.16	-6,037.1	-281.2	880.1	774.0	106.15	8.291
16,200.0	9,743.2	16,154.9	9,760.8	56.5	51.0	-91.16	-6,087.1	-281.7	880.1	773.3	106.85	8.237
16,245.0	9,743.2	16,199.9	9,760.8	56.7	51.4	-91.16	-6,132.1	-282.1	880.1	772.7	107.48	8.189
16,300.0	9,743.2	16,254.9	9,760.8	57.1	51.8	-91.16	-6,187.1	-282.5	880.1	771.9	108.25	8.131
16,340.0	9,743.2	16,294.9	9,760.9	57.4	52.0	-91.16	-6,227.1	-282.9	880.1	771.3	108.81	8.089
16,400.0	9,743.3	16,354.9	9,760.9	57.8	52.5	-91.16	-6,287.1	-283.4	880.2	770.5	109.65	8.027
16,435.0	9,743.3	16,389.9	9,761.0	58.0	52.7	-91.16	-6,322.1	-283.7	880.2	770.0	110.14	7.991
16,500.0	9,743.3	16,454.9	9,761.0	58.4	53.2	-91.16	-6,387.0	-284.3	880.2	769.1	111.05	7.925
16,530.0	9,743.3	16,484.9	9,761.0	58.6	53.4	-91.16	-6,417.0	-284.6	880.2	768.7	111.48	7.895
16,600.0	9,743.4	16,554.9	9,761.1	59.1	53.9	-91.17	-6,487.0	-285.2	880.2	767.7	112.46	7.826
16,625.0	9,743.4	16,579.9	9,761.1	59.2	54.1	-91.17	-6,512.0	-285.4	880.2	767.3	112.81	7.802
16,700.0	9,743.4	16,654.9	9,761.2	59.7	54.7	-91.17	-6,587.0	-286.1	880.2	766.3	113.87	7.729
16,720.0	9,743.4	16,674.9	9,761.2	59.9	54.8	-91.17	-6,607.0	-286.3	880.2	766.0	114.16	7.710
16,800.0	9,743.5	16,754.9	9,761.2	60.4	55.4	-91.17	-6,687.0	-287.0	880.2	764.9	115.29	7.634
16,815.0	9,743.5	16,769.9	9,761.3	60.5	55.5	-91.17	-6,702.0	-287.1	880.2	764.7	115.50	7.620
16,900.0	9,743.5	16,854.9	9,761.3	61.1	56.2	-91.17	-6,787.0	-287.9	880.2	763.5	116.70	7.542
16,910.0	9,743.5	16,864.9	9,761.3	61.1	56.2	-91.17	-6,797.0	-288.0	880.2	763.3	116.84	7.533
17,000.0	9,743.6	16,954.9	9,761.4	61.8	56.9	-91.17	-6,887.0	-288.8	880.2	762.0	118.12	7.451
17,005.0	9,743.6	16,959.9	9,761.4	61.8	56.9	-91.17	-6,892.0	-288.8	880.2	762.0	118.19	7.447
17,100.0	9,743.6	17,054.9	9,761.5	62.4	57.6	-91.17	-6,987.0	-289.6	880.2	760.6	119.54	7.363
17,195.0	9,743.7	17,149.9	9,761.6	63.1	58.3	-91.18	-7,082.0	-290.5	880.2	759.3	120.90	7.280

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 #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #806H	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 #805H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9240-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
17,200.0	9,743.7	17,154.9	9,761.6	63.1	58.4	-91.18	-7,087.0	-290.5	880.2	759.2	120.97	7.276	
17,290.0	9,743.7	17,244.9	9,761.6	63.7	59.0	-91.18	-7,177.0	-291.3	880.2	757.9	122.25	7.200	
17,300.0	9,743.8	17,254.9	9,761.6	63.8	59.1	-91.18	-7,187.0	-291.4	880.2	757.8	122.39	7.191	
17,385.0	9,743.8	17,339.9	9,761.7	64.4	59.7	-91.18	-7,272.0	-292.2	880.2	756.6	123.61	7.121	
17,400.0	9,743.8	17,354.9	9,761.7	64.5	59.8	-91.18	-7,287.0	-292.3	880.2	756.3	123.82	7.108	
17,480.0	9,743.8	17,434.9	9,761.8	65.0	60.4	-91.18	-7,367.0	-293.0	880.2	755.2	124.97	7.043	
17,500.0	9,743.9	17,454.9	9,761.8	65.1	60.6	-91.18	-7,387.0	-293.2	880.2	754.9	125.25	7.027	
17,575.0	9,743.9	17,529.9	9,761.9	65.7	61.1	-91.18	-7,462.0	-293.9	880.2	753.8	126.33	6.967	
17,600.0	9,743.9	17,554.9	9,761.9	65.8	61.3	-91.18	-7,487.0	-294.1	880.2	753.5	126.69	6.947	
17,670.0	9,743.9	17,624.9	9,761.9	66.3	61.8	-91.18	-7,557.0	-294.7	880.2	752.5	127.69	6.893	
17,700.0	9,744.0	17,654.9	9,762.0	66.5	62.1	-91.18	-7,587.0	-295.0	880.2	752.0	128.12	6.870	
17,765.0	9,744.0	17,719.9	9,762.0	67.0	62.5	-91.19	-7,652.0	-295.5	880.2	751.1	129.06	6.820	
17,800.0	9,744.0	17,754.9	9,762.0	67.2	62.8	-91.19	-7,687.0	-295.8	880.2	750.6	129.56	6.793	
17,860.0	9,744.0	17,814.9	9,762.1	67.6	63.2	-91.19	-7,747.0	-296.4	880.2	749.7	130.43	6.748	
17,900.0	9,744.1	17,854.9	9,762.1	67.9	63.5	-91.19	-7,787.0	-296.7	880.2	749.2	131.00	6.719	
17,955.0	9,744.1	17,909.9	9,762.2	68.3	63.9	-91.19	-7,842.0	-297.2	880.2	748.4	131.79	6.678	
18,000.0	9,744.1	17,954.9	9,762.2	68.6	64.3	-91.19	-7,887.0	-297.6	880.2	747.7	132.44	6.646	
18,050.0	9,744.1	18,004.9	9,762.2	68.9	64.7	-91.19	-7,937.0	-298.1	880.2	747.0	133.16	6.610	
18,100.0	9,744.2	18,054.9	9,762.3	69.3	65.0	-91.19	-7,987.0	-298.5	880.2	746.3	133.89	6.574	
18,145.0	9,744.2	18,099.9	9,762.3	69.6	65.4	-91.19	-8,032.0	-298.9	880.2	745.6	134.54	6.542	
18,200.0	9,744.2	18,154.9	9,762.4	70.0	65.8	-91.19	-8,087.0	-299.4	880.2	744.8	135.33	6.504	
18,240.0	9,744.2	18,194.9	9,762.4	70.2	66.1	-91.19	-8,127.0	-299.8	880.2	744.3	135.91	6.476	
18,300.0	9,744.3	18,254.9	9,762.4	70.7	66.5	-91.19	-8,187.0	-300.3	880.2	743.4	136.78	6.435	
18,335.0	9,744.3	18,289.9	9,762.5	70.9	66.8	-91.20	-8,222.0	-300.6	880.2	742.9	137.29	6.411	
18,400.0	9,744.3	18,354.9	9,762.5	71.4	67.3	-91.20	-8,287.0	-301.2	880.2	741.9	138.23	6.368	
18,430.0	9,744.3	18,384.9	9,762.5	71.6	67.5	-91.20	-8,317.0	-301.4	880.2	741.5	138.66	6.348	
18,500.0	9,744.4	18,454.9	9,762.6	72.1	68.0	-91.20	-8,387.0	-302.1	880.2	740.5	139.68	6.301	
18,525.0	9,744.4	18,479.9	9,762.6	72.2	68.2	-91.20	-8,412.0	-302.3	880.2	740.1	140.04	6.285	
18,600.0	9,744.4	18,554.9	9,762.7	72.8	68.7	-91.20	-8,487.0	-302.9	880.2	739.0	141.13	6.237	
18,620.0	9,744.4	18,574.9	9,762.7	72.9	68.9	-91.20	-8,507.0	-303.1	880.2	738.8	141.42	6.224	
18,700.0	9,744.5	18,654.9	9,762.7	73.5	69.5	-91.20	-8,587.0	-303.8	880.2	737.6	142.58	6.173	
18,715.0	9,744.5	18,669.9	9,762.8	73.6	69.6	-91.20	-8,602.0	-304.0	880.2	737.4	142.80	6.164	
18,800.0	9,744.5	18,754.9	9,762.8	74.2	70.2	-91.20	-8,687.0	-304.7	880.2	736.1	144.04	6.111	
18,810.0	9,744.6	18,764.9	9,762.8	74.2	70.3	-91.20	-8,697.0	-304.8	880.2	736.0	144.18	6.105	
18,900.0	9,744.6	18,854.9	9,762.9	74.9	71.0	-91.20	-8,787.0	-305.6	880.2	734.7	145.50	6.050	
18,905.0	9,744.6	18,859.9	9,762.9	74.9	71.0	-91.20	-8,792.0	-305.7	880.2	734.6	145.57	6.047	
19,000.0	9,744.7	18,954.9	9,763.0	75.6	71.7	-91.21	-8,886.9	-306.5	880.2	733.2	146.95	5.990	
19,095.0	9,744.7	19,049.9	9,763.1	76.2	72.4	-91.21	-8,981.9	-307.3	880.2	731.8	148.34	5.934	
19,100.0	9,744.7	19,054.9	9,763.1	76.3	72.5	-91.21	-8,986.9	-307.4	880.2	731.8	148.41	5.931	
19,190.0	9,744.8	19,144.9	9,763.1	76.9	73.1	-91.21	-9,076.9	-308.2	880.2	730.5	149.73	5.879	
19,200.0	9,744.8	19,154.9	9,763.1	77.0	73.2	-91.21	-9,086.9	-308.3	880.2	730.3	149.87	5.873	
19,285.0	9,744.8	19,239.9	9,763.2	77.6	73.9	-91.21	-9,171.9	-309.0	880.2	729.1	151.12	5.825	
19,300.0	9,744.8	19,254.9	9,763.2	77.7	74.0	-91.21	-9,186.9	-309.2	880.2	728.8	151.34	5.816	
19,380.0	9,744.9	19,334.9	9,763.3	78.3	74.6	-91.21	-9,266.9	-309.9	880.2	727.7	152.51	5.771	
19,400.0	9,744.9	19,354.9	9,763.3	78.4	74.7	-91.21	-9,286.9	-310.0	880.2	727.4	152.80	5.760	
19,475.0	9,744.9	19,429.9	9,763.4	78.9	75.3	-91.21	-9,361.9	-310.7	880.2	726.3	153.90	5.719	
19,500.0	9,744.9	19,454.9	9,763.4	79.1	75.5	-91.22	-9,386.9	-310.9	880.2	725.9	154.26	5.706	
19,570.0	9,745.0	19,524.9	9,763.4	79.6	76.0	-91.22	-9,456.9	-311.6	880.2	724.9	155.29	5.668	
19,600.0	9,745.0	19,554.9	9,763.5	79.8	76.2	-91.22	-9,486.9	-311.8	880.2	724.5	155.73	5.652	
19,665.0	9,745.0	19,619.9	9,763.5	80.3	76.7	-91.22	-9,551.9	-312.4	880.2	723.5	156.68	5.618	
19,700.0	9,745.0	19,654.9	9,763.5	80.5	77.0	-91.22	-9,586.9	-312.7	880.2	723.0	157.20	5.599	

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 #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #806H	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 #805H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9240-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)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
19,760.0	9,745.1	19,714.9	9,763.6	81.0	77.4	-91.22	-9,646.9	-313.2	880.2	722.1	158.08	5.568		
19,800.0	9,745.1	19,754.9	9,763.6	81.3	77.7	-91.22	-9,686.9	-313.6	880.2	721.5	158.66	5.548		
19,855.0	9,745.1	19,809.9	9,763.7	81.6	78.1	-91.22	-9,741.9	-314.1	880.2	720.7	159.47	5.519		
19,900.0	9,745.1	19,854.9	9,763.7	82.0	78.5	-91.22	-9,786.9	-314.5	880.2	720.1	160.13	5.497		
19,950.0	9,745.2	19,904.9	9,763.7	82.3	78.8	-91.22	-9,836.9	-314.9	880.2	719.3	160.87	5.472		
20,000.0	9,745.2	19,954.9	9,763.8	82.7	79.2	-91.22	-9,886.9	-315.4	880.2	718.6	161.60	5.447		
20,045.0	9,745.2	19,999.9	9,763.8	83.0	79.6	-91.22	-9,931.9	-315.8	880.2	717.9	162.27	5.424		
20,100.0	9,745.2	20,054.9	9,763.9	83.4	80.0	-91.23	-9,986.9	-316.3	880.2	717.1	163.07	5.397		
20,140.0	9,745.3	20,094.9	9,763.9	83.7	80.3	-91.23	-10,026.9	-316.6	880.2	716.5	163.66	5.378		
20,200.0	9,745.3	20,154.9	9,763.9	84.1	80.7	-91.23	-10,086.9	-317.1	880.2	715.6	164.55	5.349		
20,235.0	9,745.3	20,189.9	9,764.0	84.4	81.0	-91.23	-10,121.9	-317.5	880.2	715.1	165.06	5.332		
20,300.0	9,745.3	20,254.9	9,764.0	84.8	81.5	-91.23	-10,186.9	-318.0	880.2	714.2	166.02	5.302		
20,330.0	9,745.4	20,284.9	9,764.0	85.1	81.7	-91.23	-10,216.9	-318.3	880.2	713.7	166.46	5.288		
20,400.0	9,745.4	20,354.9	9,764.1	85.6	82.2	-91.23	-10,286.9	-318.9	880.2	712.7	167.49	5.255		
20,425.0	9,745.4	20,379.9	9,764.1	85.7	82.4	-91.23	-10,311.9	-319.1	880.2	712.3	167.86	5.244		
20,500.0	9,745.4	20,454.9	9,764.2	86.3	83.0	-91.23	-10,386.9	-319.8	880.2	711.2	168.97	5.209		
20,520.0	9,745.5	20,474.9	9,764.2	86.4	83.1	-91.23	-10,406.9	-320.0	880.2	710.9	169.27	5.200		
20,600.0	9,745.5	20,554.9	9,764.3	87.0	83.7	-91.23	-10,486.9	-320.7	880.2	709.8	170.45	5.164		
20,615.0	9,745.5	20,569.9	9,764.3	87.1	83.8	-91.23	-10,501.9	-320.8	880.2	709.5	170.67	5.157		
20,700.0	9,745.5	20,654.9	9,764.3	87.7	84.5	-91.24	-10,586.9	-321.6	880.2	708.3	171.92	5.120		
20,710.0	9,745.6	20,664.9	9,764.3	87.8	84.5	-91.24	-10,596.9	-321.7	880.2	708.1	172.07	5.115		
20,800.0	9,745.6	20,754.9	9,764.4	88.4	85.2	-91.24	-10,686.9	-322.5	880.2	706.8	173.40	5.076		
20,805.0	9,745.6	20,759.9	9,764.4	88.5	85.3	-91.24	-10,691.9	-322.5	880.2	706.7	173.47	5.074		
20,900.0	9,745.7	20,854.9	9,764.5	89.2	86.0	-91.24	-10,786.9	-323.4	880.2	705.3	174.88	5.033		
20,995.0	9,745.7	20,949.9	9,764.6	89.8	86.7	-91.24	-10,881.9	-324.2	880.2	703.9	176.29	4.993		
21,000.0	9,745.7	20,954.9	9,764.6	89.9	86.7	-91.24	-10,886.9	-324.2	880.2	703.8	176.36	4.991		
21,090.0	9,745.8	21,044.9	9,764.6	90.5	87.4	-91.24	-10,976.9	-325.0	880.2	702.5	177.69	4.954		
21,100.0	9,745.8	21,054.9	9,764.6	90.6	87.5	-91.24	-10,986.9	-325.1	880.2	702.4	177.84	4.949		
21,185.0	9,745.8	21,139.9	9,764.7	91.2	88.1	-91.24	-11,071.9	-325.9	880.2	701.1	179.10	4.915		
21,200.0	9,745.8	21,154.9	9,764.7	91.3	88.2	-91.24	-11,086.9	-326.0	880.2	700.9	179.32	4.909		
21,280.0	9,745.9	21,234.9	9,764.8	91.9	88.8	-91.25	-11,166.9	-326.7	880.2	699.7	180.51	4.876		
21,300.0	9,745.9	21,254.9	9,764.8	92.1	89.0	-91.25	-11,186.9	-326.9	880.2	699.4	180.80	4.868		
21,375.0	9,745.9	21,329.9	9,764.9	92.6	89.5	-91.25	-11,261.9	-327.6	880.2	698.3	181.91	4.839		
21,400.0	9,745.9	21,354.9	9,764.9	92.8	89.7	-91.25	-11,286.9	-327.8	880.2	697.9	182.29	4.829		
21,470.0	9,746.0	21,424.9	9,764.9	93.3	90.3	-91.25	-11,356.9	-328.4	880.2	696.9	183.32	4.801		
21,500.0	9,746.0	21,454.9	9,765.0	93.5	90.5	-91.25	-11,386.8	-328.7	880.2	696.4	183.77	4.790		
21,565.0	9,746.0	21,519.9	9,765.0	94.0	91.0	-91.25	-11,451.8	-329.3	880.2	695.5	184.73	4.765		
21,600.0	9,746.0	21,554.9	9,765.0	94.2	91.2	-91.25	-11,486.8	-329.6	880.2	695.0	185.25	4.751		
21,660.0	9,746.1	21,614.9	9,765.1	94.7	91.7	-91.25	-11,546.8	-330.1	880.2	694.1	186.14	4.729		
21,700.0	9,746.1	21,654.9	9,765.1	95.0	92.0	-91.25	-11,586.8	-330.5	880.2	693.5	186.74	4.714		
21,755.0	9,746.1	21,709.9	9,765.2	95.4	92.4	-91.25	-11,641.8	-330.9	880.2	692.7	187.56	4.693		
21,800.0	9,746.1	21,754.9	9,765.2	95.7	92.8	-91.25	-11,686.8	-331.3	880.2	692.0	188.22	4.676		
21,850.0	9,746.2	21,804.9	9,765.2	96.1	93.1	-91.26	-11,736.8	-331.8	880.2	691.2	188.97	4.658		
21,900.0	9,746.2	21,854.9	9,765.3	96.4	93.5	-91.26	-11,786.8	-332.2	880.2	690.5	189.71	4.640		
21,945.0	9,746.2	21,899.9	9,765.3	96.8	93.8	-91.26	-11,831.8	-332.6	880.2	689.8	190.38	4.623		
22,000.0	9,746.2	21,954.9	9,765.4	97.2	94.3	-91.26	-11,886.8	-333.1	880.2	689.0	191.20	4.604		
22,040.0	9,746.3	21,994.9	9,765.4	97.4	94.6	-91.26	-11,926.8	-333.5	880.2	688.4	191.79	4.589		
22,100.0	9,746.3	22,054.9	9,765.4	97.9	95.0	-91.26	-11,986.8	-334.0	880.2	687.5	192.68	4.568		
22,135.0	9,746.3	22,089.9	9,765.5	98.1	95.3	-91.26	-12,021.8	-334.3	880.2	687.0	193.21	4.556		
22,200.0	9,746.3	22,154.9	9,765.5	98.6	95.8	-91.26	-12,086.8	-334.9	880.2	686.0	194.17	4.533		
22,230.0	9,746.4	22,184.9	9,765.5	98.8	96.0	-91.26	-12,116.8	-335.2	880.2	685.6	194.62	4.523		

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 #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #806H	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 #805H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9240-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Distance	Rule Assigned:	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
22,300.0	9,746.4	22,254.9	9,765.6	99.3	96.5	-91.26	-12,186.8	-335.8	880.2	684.6	195.66	4.499
22,325.0	9,746.4	22,279.9	9,765.6	99.5	96.7	-91.26	-12,211.8	-336.0	880.2	684.2	196.03	4.490
22,400.0	9,746.4	22,354.9	9,765.7	100.1	97.3	-91.26	-12,286.8	-336.7	880.2	683.1	197.15	4.465
22,420.0	9,746.5	22,374.9	9,765.7	100.2	97.4	-91.27	-12,306.8	-336.8	880.2	682.8	197.45	4.458
22,500.0	9,746.5	22,454.9	9,765.8	100.8	98.0	-91.27	-12,386.8	-337.5	880.2	681.6	198.64	4.431
22,515.0	9,746.5	22,469.9	9,765.8	100.9	98.1	-91.27	-12,401.8	-337.7	880.2	681.4	198.86	4.426
22,600.0	9,746.6	22,554.9	9,765.8	101.5	98.8	-91.27	-12,486.8	-338.4	880.2	680.1	200.13	4.398
22,610.0	9,746.6	22,564.9	9,765.8	101.6	98.9	-91.27	-12,496.8	-338.5	880.2	679.9	200.28	4.395
22,700.0	9,746.6	22,654.9	9,765.9	102.3	99.5	-91.27	-12,586.8	-339.3	880.2	678.6	201.62	4.366
22,705.0	9,746.6	22,659.9	9,765.9	102.3	99.6	-91.27	-12,591.8	-339.4	880.2	678.5	201.70	4.364
22,800.0	9,746.7	22,754.9	9,766.0	103.0	100.3	-91.27	-12,686.8	-340.2	880.2	677.1	203.11	4.334
22,895.0	9,746.7	22,849.9	9,766.1	103.7	101.0	-91.27	-12,781.8	-341.1	880.2	675.7	204.53	4.304
22,900.0	9,746.7	22,854.9	9,766.1	103.7	101.1	-91.27	-12,786.8	-341.1	880.2	675.6	204.61	4.302
22,990.0	9,746.8	22,944.9	9,766.1	104.4	101.7	-91.27	-12,876.8	-341.9	880.2	674.3	205.95	4.274
23,000.0	9,746.8	22,954.9	9,766.2	104.5	101.8	-91.28	-12,886.8	-342.0	880.2	674.1	206.10	4.271
23,085.0	9,746.8	23,039.9	9,766.2	105.1	102.5	-91.28	-12,971.8	-342.7	880.2	672.9	207.37	4.245
23,100.0	9,746.8	23,054.9	9,766.2	105.2	102.6	-91.28	-12,986.8	-342.9	880.2	672.6	207.59	4.240
23,180.0	9,746.9	23,134.9	9,766.3	105.8	103.2	-91.28	-13,066.8	-343.6	880.2	671.4	208.79	4.216
23,200.0	9,746.9	23,154.9	9,766.3	106.0	103.3	-91.28	-13,086.8	-343.8	880.2	671.1	209.09	4.210
23,275.0	9,746.9	23,229.9	9,766.4	106.5	103.9	-91.28	-13,161.8	-344.4	880.2	670.0	210.21	4.187
23,300.0	9,746.9	23,254.9	9,766.4	106.7	104.1	-91.28	-13,186.8	-344.6	880.2	669.7	210.58	4.180
23,370.0	9,747.0	23,324.9	9,766.4	107.2	104.6	-91.28	-13,256.8	-345.3	880.2	668.6	211.63	4.159
23,400.0	9,747.0	23,354.9	9,766.5	107.4	104.8	-91.28	-13,286.8	-345.5	880.2	668.2	212.07	4.151
23,465.0	9,747.0	23,419.9	9,766.5	107.9	105.3	-91.28	-13,351.8	-346.1	880.2	667.2	213.05	4.132
23,500.0	9,747.0	23,454.9	9,766.6	108.2	105.6	-91.28	-13,386.8	-346.4	880.2	666.7	213.57	4.122
23,560.0	9,747.1	23,514.9	9,766.6	108.6	106.0	-91.28	-13,446.8	-347.0	880.2	665.8	214.47	4.104
23,600.0	9,747.1	23,554.9	9,766.6	108.9	106.3	-91.29	-13,486.8	-347.3	880.2	665.2	215.06	4.093
23,655.0	9,747.1	23,609.9	9,766.7	109.3	106.8	-91.29	-13,541.8	-347.8	880.2	664.3	215.89	4.077
23,700.0	9,747.1	23,654.9	9,766.7	109.6	107.1	-91.29	-13,586.8	-348.2	880.2	663.7	216.56	4.065
23,750.0	9,747.2	23,704.9	9,766.7	110.0	107.5	-91.29	-13,636.8	-348.6	880.2	662.9	217.31	4.051
23,800.0	9,747.2	23,754.9	9,766.8	110.4	107.9	-91.29	-13,686.8	-349.1	880.2	662.2	218.06	4.037
23,845.0	9,747.2	23,799.9	9,766.8	110.7	108.2	-91.29	-13,731.8	-349.5	880.2	661.5	218.73	4.024
23,900.0	9,747.2	23,854.9	9,766.9	111.1	108.6	-91.29	-13,786.8	-350.0	880.2	660.7	219.55	4.009
23,940.0	9,747.3	23,894.9	9,766.9	111.4	108.9	-91.29	-13,826.8	-350.3	880.2	660.1	220.15	3.998
24,000.0	9,747.3	23,954.9	9,766.9	111.9	109.4	-91.29	-13,886.7	-350.9	880.2	659.2	221.05	3.982
24,035.0	9,747.3	23,989.9	9,767.0	112.1	109.6	-91.29	-13,921.7	-351.2	880.2	658.7	221.58	3.973
24,100.0	9,747.3	24,054.9	9,767.0	112.6	110.1	-91.29	-13,986.7	-351.7	880.2	657.7	222.55	3.955
24,130.0	9,747.4	24,084.9	9,767.0	112.8	110.4	-91.29	-14,016.7	-352.0	880.2	657.2	223.00	3.947
24,200.0	9,747.4	24,154.9	9,767.1	113.3	110.9	-91.30	-14,086.7	-352.6	880.2	656.2	224.05	3.929
24,225.0	9,747.4	24,179.9	9,767.1	113.5	111.1	-91.30	-14,111.7	-352.9	880.2	655.8	224.42	3.922
24,300.0	9,747.5	24,254.9	9,767.2	114.1	111.6	-91.30	-14,186.7	-353.5	880.2	654.7	225.55	3.903
24,320.0	9,747.5	24,274.9	9,767.2	114.2	111.8	-91.30	-14,206.7	-353.7	880.2	654.4	225.85	3.898
24,400.0	9,747.5	24,354.9	9,767.3	114.8	112.4	-91.30	-14,286.7	-354.4	880.2	653.2	227.04	3.877
24,415.0	9,747.5	24,369.9	9,767.3	114.9	112.5	-91.30	-14,301.7	-354.5	880.2	653.0	227.27	3.873
24,500.0	9,747.6	24,454.9	9,767.3	115.5	113.2	-91.30	-14,386.7	-355.3	880.2	651.7	228.54	3.852
24,510.0	9,747.6	24,464.9	9,767.4	115.6	113.2	-91.30	-14,396.7	-355.4	880.2	651.6	228.69	3.849
24,600.0	9,747.6	24,554.9	9,767.4	116.3	113.9	-91.30	-14,486.7	-356.2	880.2	650.2	230.04	3.826
24,605.0	9,747.6	24,559.9	9,767.4	116.3	114.0	-91.30	-14,491.7	-356.2	880.2	650.1	230.12	3.825
24,700.0	9,747.7	24,654.9	9,767.5	117.0	114.7	-91.30	-14,586.7	-357.1	880.2	648.7	231.54	3.802
24,795.0	9,747.7	24,749.9	9,767.6	117.7	115.4	-91.31	-14,681.7	-357.9	880.3	647.3	232.97	3.778
24,800.0	9,747.7	24,754.9	9,767.6	117.8	115.4	-91.31	-14,686.7	-358.0	880.3	647.2	233.04	3.777

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 #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #806H	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 #805H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9240-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)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
24,890.0	9,747.8	24,844.9	9,767.7	118.4	116.1	-91.31	-14,776.7	-358.8	880.3	645.9	234.39	3.755	
24,900.0	9,747.8	24,854.9	9,767.7	118.5	116.2	-91.31	-14,786.7	-358.8	880.3	645.7	234.54	3.753	
24,985.0	9,747.8	24,939.9	9,767.7	119.1	116.8	-91.31	-14,871.7	-359.6	880.3	644.4	235.82	3.733	
25,000.0	9,747.8	24,954.9	9,767.7	119.3	116.9	-91.31	-14,886.7	-359.7	880.3	644.2	236.05	3.729	
25,080.0	9,747.9	25,034.9	9,767.8	119.8	117.6	-91.31	-14,966.7	-360.4	880.3	643.0	237.25	3.710	
25,100.0	9,747.9	25,054.9	9,767.8	120.0	117.7	-91.31	-14,986.7	-360.6	880.3	642.7	237.55	3.706	
25,175.0	9,747.9	25,129.9	9,767.9	120.6	118.3	-91.31	-15,061.7	-361.3	880.3	641.6	238.67	3.688	
25,200.7	9,747.9	25,155.6	9,767.9	120.7	118.5	-91.31	-15,087.4	-361.5	880.3	641.2	239.06	3.682	
25,270.0	9,748.0	25,224.9	9,768.0	121.3	119.0	-91.31	-15,156.7	-362.1	880.3	640.2	240.10	3.666	
25,300.0	9,748.0	25,254.9	9,768.0	121.5	119.2	-91.31	-15,186.7	-362.4	880.3	639.7	240.55	3.659	
25,302.9	9,748.0	25,257.8	9,768.0	121.5	119.2	-91.31	-15,189.6	-362.4	880.3	639.7	240.59	3.659	
25,330.7	9,748.0	25,284.5	9,768.0	121.7	119.4	-91.31	-15,216.3	-362.7	880.3	639.3	240.99	3.653	

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 #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #806H	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 #5H - OWB - AWP													Offset Site Error: 0.0 usft	
Survey Program: 431-MWD		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	
0.0	0.0	0.0	0.0	3.0	3.0	-37.58	873.5	-672.1	1,102.6					
95.0	95.0	60.2	60.2	3.0	3.2	-37.57	873.7	-672.0	1,102.2	1,096.2	6.03	182.647		
100.0	100.0	64.9	64.9	3.0	3.2	-37.57	873.7	-672.0	1,102.2	1,096.2	6.04	182.477		
190.0	190.0	150.5	150.5	3.1	3.9	-37.52	874.6	-671.6	1,102.7	1,096.5	6.23	176.914		
200.0	200.0	160.0	160.0	3.1	4.0	-37.51	874.7	-671.5	1,102.8	1,096.5	6.26	176.060		
285.0	285.0	240.8	240.7	3.3	5.0	-37.44	876.2	-670.8	1,103.6	1,097.1	6.51	169.601		
300.0	300.0	255.0	255.0	3.3	5.2	-37.42	876.5	-670.7	1,103.8	1,097.2	6.56	168.329		
380.0	380.0	331.0	330.9	3.4	6.2	-37.31	878.6	-669.7	1,104.9	1,098.0	6.83	161.737		
400.0	400.0	350.0	349.9	3.4	6.5	-37.28	879.2	-669.4	1,105.2	1,098.3	6.91	160.022		
475.0	475.0	431.0	430.9	3.5	7.7	-37.13	882.2	-668.0	1,106.6	1,099.4	7.23	153.156		
500.0	500.0	450.2	450.0	3.5	7.8	-37.10	882.9	-667.7	1,107.1	1,099.8	7.28	152.081		
570.0	570.0	537.5	537.3	3.6	8.2	-37.00	884.5	-666.6	1,107.5	1,100.0	7.51	147.493		
600.0	600.0	568.0	567.9	3.6	8.3	-36.99	884.7	-666.3	1,107.6	1,099.9	7.64	144.945		
665.0	665.0	634.2	634.0	3.7	8.6	-36.96	885.1	-665.9	1,107.6	1,099.6	7.92	139.799		
700.0	700.0	669.8	669.6	3.8	8.7	-36.94	885.2	-665.6	1,107.5	1,099.5	8.07	137.163		
760.0	760.0	730.0	729.8	3.8	8.9	-36.93	885.3	-665.4	1,107.4	1,099.1	8.32	133.131		
800.0	800.0	768.8	768.6	3.9	9.0	-36.92	885.3	-665.2	1,107.4	1,098.9	8.46	130.864		
808.9	808.9	777.4	777.2	3.9	9.0	-36.92	885.4	-665.2	1,107.4	1,098.9	8.49	130.379		
855.0	855.0	822.1	821.9	4.0	9.1	-36.91	885.5	-665.1	1,107.4	1,098.8	8.66	127.914		
900.0	900.0	865.7	865.5	4.0	9.2	-36.90	885.6	-665.0	1,107.5	1,098.7	8.82	125.593		
950.0	950.0	914.7	914.5	4.1	9.3	-36.90	885.8	-665.0	1,107.7	1,098.7	8.98	123.298		
1,000.0	1,000.0	964.5	964.4	4.1	9.5	-36.89	886.1	-665.0	1,107.8	1,098.7	9.13	121.300		
1,045.0	1,045.0	1,009.4	1,009.2	4.2	9.6	-36.88	886.3	-665.0	1,108.0	1,098.7	9.27	119.518		
1,100.0	1,100.0	1,064.3	1,064.1	4.2	9.8	-36.87	886.5	-665.0	1,108.2	1,098.8	9.44	117.335		
1,140.0	1,140.0	1,104.1	1,103.9	4.3	9.9	-36.87	886.7	-665.0	1,108.4	1,098.8	9.57	115.760		
1,200.0	1,200.0	1,163.5	1,163.3	4.4	10.1	-36.85	887.1	-664.8	1,108.6	1,098.9	9.77	113.438		
1,235.0	1,235.0	1,198.1	1,197.9	4.4	10.2	-36.83	887.5	-664.6	1,108.8	1,098.9	9.89	112.131		
1,300.0	1,300.0	1,262.5	1,262.3	4.5	10.4	-36.78	888.3	-664.1	1,109.1	1,099.0	10.10	109.767		
1,330.0	1,330.0	1,295.6	1,295.4	4.5	10.5	-36.75	888.8	-663.7	1,109.3	1,099.0	10.26	108.074		
1,400.0	1,400.0	1,377.3	1,377.1	4.6	10.7	-36.66	889.7	-662.1	1,109.1	1,098.4	10.70	103.617		
1,425.0	1,425.0	1,406.5	1,406.3	4.6	10.8	-36.62	889.9	-661.3	1,108.8	1,098.0	10.86	102.135		
1,500.0	1,500.0	1,485.9	1,485.6	4.7	11.0	-36.50	890.3	-658.7	1,107.6	1,096.3	11.28	98.233		
1,520.0	1,520.0	1,503.0	1,502.7	4.7	11.0	29.78	890.3	-658.3	1,107.3	1,095.9	11.38	97.324		
1,600.0	1,600.0	1,574.3	1,574.0	4.8	11.1	29.86	890.1	-657.6	1,105.2	1,093.3	11.85	93.228		
1,615.0	1,615.0	1,590.3	1,590.0	4.9	11.1	29.88	890.0	-657.6	1,104.6	1,092.6	11.99	92.156		
1,700.0	1,699.8	1,680.8	1,680.5	5.0	11.3	30.07	889.6	-656.9	1,099.8	1,087.1	12.74	86.363		
1,710.0	1,709.8	1,691.4	1,691.1	5.1	11.3	30.11	889.5	-656.7	1,099.1	1,086.3	12.82	85.714		
1,800.0	1,799.5	1,785.6	1,785.3	5.3	11.4	30.46	889.0	-655.2	1,090.9	1,077.3	13.58	80.309		
1,805.0	1,804.4	1,790.7	1,790.4	5.3	11.5	30.48	889.0	-655.1	1,090.4	1,076.7	13.62	80.038		
1,900.0	1,898.7	1,887.5	1,887.1	5.6	11.6	31.01	888.5	-652.9	1,078.7	1,064.3	14.36	75.093		
1,995.0	1,992.5	1,981.9	1,981.5	5.9	11.8	31.68	888.1	-650.2	1,064.2	1,049.2	15.01	70.898		
2,000.0	1,997.5	1,986.7	1,986.3	5.9	11.8	31.72	888.1	-650.1	1,063.3	1,048.3	15.04	70.709		
2,090.0	2,085.8	2,073.4	2,073.0	6.2	12.0	32.48	887.9	-647.5	1,047.2	1,031.6	15.54	67.384		
2,100.0	2,095.6	2,083.0	2,082.6	6.3	12.0	32.58	887.9	-647.2	1,045.3	1,029.7	15.59	67.028		
2,185.0	2,178.5	2,165.0	2,164.5	6.6	12.2	33.44	887.8	-644.8	1,027.8	1,011.7	16.10	63.857		
2,200.0	2,193.0	2,179.6	2,179.2	6.6	12.2	33.61	887.8	-644.3	1,024.6	1,008.4	16.20	63.261		
2,280.0	2,270.7	2,257.9	2,257.4	6.9	12.4	34.33	887.7	-642.0	1,007.0	990.3	16.69	60.322		
2,300.0	2,290.1	2,277.5	2,277.0	6.9	12.4	34.51	887.6	-641.4	1,002.6	985.7	16.82	59.618		
2,375.0	2,362.9	2,349.9	2,349.3	7.2	12.6	35.21	887.4	-639.2	986.1	968.8	17.31	56.980		
2,400.0	2,387.1	2,373.4	2,372.9	7.3	12.7	35.44	887.4	-638.5	980.7	963.2	17.48	56.095		
2,470.0	2,455.0	2,439.4	2,438.8	7.5	12.9	36.10	887.3	-636.5	965.7	947.7	17.98	53.717		

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 #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #806H	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 #5H - OWB - AWP													Offset Site Error: 0.0 usft	
Survey Program: 431-MWD		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Offset Well Error: 3.0 usft		
Measured	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)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
2,500.0	2,484.1	2,467.7	2,467.1	7.6	12.9	36.39	887.3	-635.6	959.3	941.1	18.19	52.749		
2,565.0	2,547.2	2,516.0	2,515.4	7.8	13.1	36.90	887.3	-634.1	945.7	927.1	18.59	50.880		
2,600.0	2,581.2	2,556.8	2,556.2	8.0	13.2	37.33	887.4	-633.1	938.5	919.7	18.82	49.867		
2,660.0	2,639.4	2,607.4	2,606.8	8.2	13.3	37.83	887.6	-632.5	926.7	907.5	19.17	48.342		
2,700.0	2,678.2	2,641.3	2,640.7	8.3	13.4	38.16	887.8	-632.5	919.1	899.7	19.40	47.366		
2,755.0	2,731.6	2,688.2	2,687.6	8.5	13.6	38.59	888.0	-633.0	909.1	889.4	19.73	46.066		
2,800.0	2,775.2	2,729.9	2,729.2	8.7	13.7	38.95	888.3	-633.8	901.2	881.1	20.12	44.780		
2,850.0	2,823.7	2,779.2	2,778.6	8.9	13.8	39.39	888.6	-634.9	892.5	871.8	20.67	43.168		
2,900.0	2,872.3	2,828.6	2,827.9	9.1	13.9	39.83	888.8	-636.0	883.8	862.6	21.22	41.642		
2,945.0	2,915.9	2,873.0	2,872.3	9.3	14.0	40.23	889.0	-637.0	876.0	854.2	21.72	40.332		
3,000.0	2,969.3	2,926.9	2,926.2	9.5	14.2	40.73	889.2	-638.3	866.5	844.2	22.21	39.014		
3,040.0	3,008.1	2,966.0	2,965.3	9.7	14.3	41.10	889.3	-639.2	859.6	837.1	22.50	38.210		
3,100.0	3,066.3	3,024.6	3,023.8	9.9	14.4	41.66	889.5	-640.5	849.3	826.4	22.92	37.057		
3,135.0	3,100.3	3,058.8	3,058.0	10.1	14.5	42.00	889.6	-641.3	843.3	820.2	23.16	36.410		
3,200.0	3,163.4	3,122.6	3,121.8	10.4	14.6	42.63	889.8	-642.7	832.4	808.8	23.57	35.311		
3,230.0	3,192.5	3,152.1	3,151.4	10.5	14.7	42.93	889.9	-643.4	827.3	803.6	23.75	34.839		
3,300.0	3,260.4	3,222.2	3,221.4	10.8	14.9	43.63	889.9	-645.3	815.5	791.4	24.17	33.739		
3,325.0	3,284.6	3,247.6	3,246.8	10.9	15.0	43.85	889.6	-646.5	811.3	787.0	24.33	33.346		
3,400.0	3,357.4	3,326.8	3,325.7	11.2	15.4	44.37	887.5	-652.4	798.4	773.6	24.81	32.187		
3,420.0	3,376.8	3,348.3	3,347.1	11.3	15.6	44.47	886.6	-654.4	794.9	770.0	24.93	31.880		
3,500.0	3,454.4	3,430.5	3,428.7	11.7	16.0	44.80	882.5	-663.1	780.5	755.0	25.43	30.694		
3,515.0	3,469.0	3,445.5	3,443.7	11.7	16.1	44.86	881.7	-664.7	777.7	752.2	25.52	30.478		
3,600.0	3,551.5	3,530.8	3,528.4	12.1	16.6	45.22	877.2	-673.5	762.2	736.1	26.03	29.284		
3,610.0	3,561.2	3,540.8	3,538.3	12.1	16.6	45.27	876.7	-674.5	760.3	734.2	26.09	29.146		
3,700.0	3,648.5	3,630.2	3,627.1	12.5	17.0	45.69	871.9	-683.4	743.7	717.0	26.66	27.894		
3,705.0	3,653.4	3,635.1	3,632.0	12.6	17.0	45.71	871.7	-683.9	742.7	716.0	26.69	27.826		
3,800.0	3,745.5	3,729.1	3,725.4	13.0	17.3	46.19	866.6	-693.0	725.1	697.8	27.27	26.591		
3,895.0	3,837.7	3,833.6	3,829.2	13.4	17.8	46.74	860.2	-703.1	706.9	679.0	27.89	25.344		
3,900.0	3,842.6	3,839.2	3,834.8	13.4	17.8	46.77	859.8	-703.6	705.9	677.9	27.92	25.277		
3,990.0	3,929.9	3,941.2	3,936.0	13.8	18.3	47.25	851.3	-713.6	686.8	658.2	28.54	24.065		
4,000.0	3,939.6	3,952.5	3,947.2	13.9	18.4	47.30	850.2	-714.8	684.6	655.9	28.61	23.929		
4,085.0	4,022.1	4,034.4	4,028.3	14.3	18.7	47.71	842.4	-722.6	665.7	636.5	29.14	22.843		
4,100.0	4,036.6	4,049.0	4,042.8	14.3	18.8	47.79	841.0	-724.0	662.3	633.1	29.23	22.655		
4,180.0	4,114.2	4,127.0	4,120.1	14.7	19.2	48.24	833.8	-731.0	644.6	614.8	29.73	21.680		
4,200.0	4,133.6	4,146.4	4,139.4	14.8	19.3	48.36	832.0	-732.7	640.1	610.3	29.85	21.446		
4,275.0	4,206.4	4,219.3	4,211.6	15.1	19.5	48.86	825.3	-738.8	623.5	593.2	30.27	20.601		
4,300.0	4,230.7	4,243.5	4,235.7	15.3	19.6	49.04	823.2	-740.7	618.0	587.6	30.40	20.327		
4,370.0	4,298.6	4,311.4	4,303.2	15.6	19.9	49.59	817.2	-745.9	602.6	571.8	30.78	19.578		
4,400.0	4,327.7	4,339.3	4,330.8	15.7	20.0	49.83	814.8	-748.0	596.0	565.0	30.96	19.253		
4,465.0	4,390.8	4,396.8	4,388.0	16.0	20.3	50.30	810.0	-752.7	582.2	550.8	31.39	18.548		
4,500.0	4,424.7	4,427.9	4,418.9	16.2	20.4	50.54	807.6	-755.7	575.1	543.4	31.63	18.184		
4,560.0	4,483.0	4,481.5	4,472.0	16.5	20.7	50.91	803.6	-761.2	563.3	531.2	32.03	17.584		
4,600.0	4,521.8	4,518.0	4,508.2	16.7	20.9	51.14	801.1	-765.4	555.7	523.4	32.31	17.200		
4,655.0	4,575.1	4,571.7	4,561.4	16.9	21.1	51.47	797.5	-771.7	545.4	512.7	32.70	16.680		
4,700.0	4,618.8	4,616.1	4,605.4	17.1	21.4	51.77	794.5	-776.8	537.1	504.0	33.02	16.266		
4,750.0	4,667.3	4,665.5	4,654.4	17.4	21.6	52.12	791.2	-782.3	527.7	494.3	33.37	15.816		
4,800.0	4,715.8	4,714.9	4,703.3	17.6	21.9	52.49	787.9	-787.8	518.4	484.7	33.70	15.382		
4,845.0	4,759.5	4,759.3	4,747.4	17.8	22.0	52.86	784.9	-792.6	509.9	476.0	33.94	15.024		
4,900.0	4,812.9	4,813.6	4,801.2	18.1	22.2	53.33	781.2	-798.3	499.6	465.4	34.23	14.597		
4,940.0	4,851.7	4,853.0	4,840.4	18.2	22.4	53.70	778.6	-802.3	492.1	457.7	34.43	14.292		
5,000.0	4,909.9	4,911.6	4,898.5	18.5	22.6	54.29	774.6	-808.2	480.8	446.1	34.73	13.845		

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 #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #806H	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 #5H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 431-MWD													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	4,943.8	4,944.6	4,931.3	18.7	22.7	54.63	54.63	772.5	-811.5	474.4	439.5	34.91	13.590	
5,100.0	5,006.9	5,006.2	4,992.4	19.0	23.0	55.26	55.26	768.6	-818.0	462.6	427.4	35.23	13.130	
5,130.0	5,036.0	5,034.6	5,020.6	19.1	23.1	55.55	55.55	766.9	-821.2	457.3	421.9	35.38	12.924	
5,200.0	5,103.9	5,101.4	5,086.9	19.5	23.3	56.21	56.21	763.0	-828.9	445.2	409.5	35.74	12.459	
5,225.0	5,128.2	5,125.9	5,111.1	19.6	23.4	56.45	56.45	761.6	-831.8	441.0	405.1	35.86	12.296	
5,300.0	5,201.0	5,199.3	5,183.9	19.9	23.7	57.17	57.17	757.4	-840.7	428.3	392.0	36.24	11.818	
5,320.0	5,220.4	5,218.9	5,203.3	20.0	23.8	57.37	57.37	756.3	-843.1	424.9	388.6	36.34	11.693	
5,400.0	5,298.0	5,297.5	5,281.1	20.4	24.1	58.14	58.14	751.9	-853.1	411.6	374.8	36.74	11.203	
5,415.0	5,312.6	5,312.3	5,295.8	20.5	24.1	58.29	58.29	751.0	-855.0	409.1	372.2	36.81	11.113	
5,500.0	5,395.0	5,396.4	5,379.1	20.9	24.4	59.22	59.22	746.2	-865.5	394.9	357.7	37.21	10.613	
5,510.0	5,404.7	5,406.3	5,388.9	20.9	24.5	59.33	59.33	745.6	-866.7	393.2	356.0	37.25	10.556	
5,600.0	5,492.1	5,494.8	5,476.6	21.4	24.8	60.47	60.47	740.5	-877.2	378.2	340.6	37.63	10.050	
5,605.0	5,496.9	5,499.7	5,481.4	21.4	24.8	60.53	60.53	740.2	-877.8	377.4	339.7	37.66	10.022	
5,700.0	5,589.1	5,592.0	5,573.0	21.8	25.2	61.89	61.89	735.1	-888.4	361.9	323.9	38.02	9.518	
5,795.0	5,681.3	5,685.8	5,666.1	22.3	25.5	63.46	63.46	730.1	-898.7	346.9	308.5	38.34	9.047	
5,800.0	5,686.1	5,690.9	5,671.2	22.3	25.6	63.55	63.55	729.8	-899.3	346.1	307.7	38.36	9.023	
5,890.0	5,773.5	5,783.3	5,762.8	22.8	25.9	65.35	65.35	724.1	-908.8	331.3	292.7	38.58	8.588	
5,900.0	5,783.2	5,793.5	5,773.0	22.8	25.9	65.56	65.56	723.4	-909.8	329.6	291.0	38.60	8.540	
5,985.0	5,865.6	5,880.4	5,859.3	23.2	26.3	67.55	67.55	716.9	-918.1	315.0	276.2	38.75	8.128	
6,000.0	5,880.2	5,895.8	5,874.5	23.3	26.3	67.92	67.92	715.7	-919.6	312.3	273.5	38.77	8.055	
6,080.0	5,957.8	5,977.7	5,955.7	23.7	26.6	70.00	70.00	708.3	-927.5	297.7	258.8	38.87	7.659	
6,100.0	5,977.2	5,998.1	5,975.9	23.8	26.7	70.55	70.55	706.4	-929.5	294.0	255.1	38.90	7.558	
6,175.0	6,050.0	6,074.9	6,051.9	24.1	27.0	72.73	72.73	698.3	-937.1	279.6	240.6	38.96	7.176	
6,200.0	6,074.2	6,100.6	6,077.4	24.2	27.1	73.51	73.51	695.3	-939.7	274.6	235.6	38.98	7.045	
6,270.0	6,142.2	6,172.4	6,148.2	24.6	27.4	75.85	75.85	686.3	-947.0	260.3	221.3	39.02	6.671	
6,300.0	6,171.3	6,203.0	6,178.4	24.7	27.5	76.93	76.93	682.2	-950.2	254.0	214.9	39.04	6.506	
6,365.0	6,234.3	6,266.6	6,241.0	25.0	27.7	79.38	79.38	673.1	-956.8	240.1	201.0	39.13	6.137	
6,400.0	6,268.3	6,299.8	6,273.6	25.2	27.9	80.81	80.81	668.4	-960.1	232.9	193.7	39.20	5.942	
6,460.0	6,326.5	6,356.6	6,329.6	25.5	28.1	83.52	83.52	660.4	-965.4	221.1	181.8	39.35	5.619	
6,479.0	6,345.0	6,374.6	6,347.4	25.6	28.2	84.45	84.45	657.9	-967.0	217.6	178.1	39.41	5.520	
6,500.0	6,365.3	6,394.5	6,367.0	25.7	28.2	85.43	85.43	655.2	-968.7	213.7	174.2	39.48	5.413	
6,555.0	6,418.9	6,446.3	6,418.2	25.9	28.4	88.00	88.00	648.2	-973.1	204.3	164.5	39.75	5.139	
6,600.0	6,462.9	6,488.5	6,459.8	26.2	28.6	90.08	90.08	642.8	-976.4	197.3	157.2	40.06	4.925	
6,650.0	6,512.0	6,535.5	6,506.4	26.4	28.8	92.37	92.37	637.1	-980.0	190.3	149.9	40.46	4.703	
6,700.0	6,561.2	6,582.8	6,553.3	26.6	29.0	94.59	94.59	631.7	-983.4	184.1	143.2	40.93	4.498	
6,745.0	6,605.7	6,625.2	6,595.3	26.8	29.1	96.49	96.49	627.3	-986.3	179.1	137.7	41.38	4.328	
6,800.0	6,660.1	6,675.7	6,645.5	27.1	29.3	98.66	98.66	622.7	-989.3	174.1	132.1	41.98	4.147	
6,840.0	6,699.8	6,712.6	6,682.3	27.3	29.4	100.14	100.14	619.8	-991.0	171.2	128.8	42.42	4.037	
6,900.0	6,759.5	6,767.8	6,737.3	27.5	29.6	102.15	102.15	616.5	-993.0	168.3	125.2	43.07	3.907	
6,935.0	6,794.3	6,800.1	6,769.6	27.7	29.7	103.17	103.17	615.1	-993.8	167.3	123.8	43.42	3.852	
7,000.0	6,859.1	6,861.0	6,830.5	27.9	29.9	104.77	104.77	613.4	-994.6	166.5	122.5	43.98	3.785	
7,008.2	6,867.3	6,868.7	6,838.1	27.9	29.9	104.94	104.94	613.3	-994.7	166.5	122.4	44.04	3.779 CC	
7,030.0	6,889.1	6,889.2	6,858.7	28.0	30.0	105.36	105.36	613.1	-994.7	166.5	122.3	44.19	3.768 ES, SF	
7,100.0	6,959.0	6,953.6	6,923.0	28.3	30.1	105.97	105.97	613.8	-995.1	167.6	123.1	44.47	3.769	
7,125.0	6,984.0	6,974.9	6,944.3	28.3	30.2	105.71	105.71	615.2	-995.6	168.7	124.3	44.42	3.797	
7,179.0	7,038.0	7,020.0	6,988.9	28.4	30.3	37.96	37.96	620.9	-997.5	172.8	128.7	44.08	3.919	
7,200.0	7,059.0	7,037.3	7,006.0	28.4	30.4	37.08	37.08	624.1	-998.5	175.1	131.2	43.89	3.990	
7,220.0	7,079.0	7,053.9	7,022.2	28.4	30.4	36.13	36.13	627.5	-999.5	177.8	134.0	43.70	4.067	
7,300.0	7,159.0	7,116.7	7,082.4	28.4	30.6	31.90	31.90	644.4	-1,004.3	192.6	149.7	42.88	4.491	
7,315.0	7,174.0	7,128.0	7,093.1	28.4	30.6	31.05	31.05	648.1	-1,005.3	196.2	153.5	42.73	4.592	
7,400.0	7,259.0	7,185.4	7,145.7	28.4	30.7	26.74	26.74	670.3	-1,010.1	222.6	180.8	41.81	5.323	

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 #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #806H	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 #5H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 431-MWD												Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
+N/-S (usft)	+E/-W (usft)												
7,410.0	7,269.0	7,191.9	7,151.5	28.4	30.7	26.26	673.2	-1,010.7	226.3	184.6	41.72	5.424	
7,500.0	7,359.0	7,249.3	7,201.3	28.5	30.8	22.20	701.3	-1,015.2	265.1	224.0	41.04	6.458	
7,505.0	7,364.0	7,252.5	7,204.0	28.5	30.9	21.99	703.0	-1,015.4	267.4	226.4	41.01	6.521	
7,600.0	7,459.0	7,304.6	7,246.9	28.5	30.9	18.75	732.4	-1,019.4	317.2	277.0	40.21	7.888	
7,695.0	7,554.0	7,347.3	7,279.8	28.5	31.0	16.60	759.5	-1,021.6	375.1	335.8	39.30	9.544	
7,700.0	7,559.0	7,349.4	7,281.3	28.5	31.0	16.51	760.9	-1,021.6	378.3	339.1	39.25	9.639	
7,790.0	7,649.0	7,383.9	7,306.1	28.6	31.1	15.21	784.9	-1,021.9	439.5	401.1	38.41	11.443	
7,800.0	7,659.0	7,387.4	7,308.6	28.6	31.1	15.09	787.5	-1,021.9	446.6	408.3	38.32	11.656	
7,885.0	7,744.0	7,414.0	7,326.3	28.6	31.1	14.21	807.3	-1,021.8	509.2	471.6	37.54	13.565	
7,900.0	7,759.0	7,414.0	7,326.3	28.6	31.1	14.21	807.3	-1,021.8	520.6	483.4	37.20	13.994	
7,980.0	7,839.0	7,444.6	7,345.3	28.6	31.2	13.22	831.3	-1,022.1	582.8	545.8	36.99	15.755	
8,000.0	7,859.0	7,462.0	7,355.4	28.6	31.2	12.64	845.4	-1,022.6	599.0	561.6	37.38	16.023	
8,075.0	7,934.0	7,462.0	7,355.4	28.7	31.2	12.64	845.4	-1,022.6	659.7	623.5	36.16	18.244	
8,100.0	7,959.0	7,462.0	7,355.4	28.7	31.2	12.64	845.4	-1,022.6	680.6	644.8	35.81	19.008	
8,170.0	8,029.0	7,490.3	7,370.7	28.7	31.2	11.68	869.1	-1,024.0	739.0	703.0	35.98	20.538	
8,200.0	8,059.0	7,510.0	7,380.5	28.7	31.3	11.03	886.2	-1,025.2	764.9	728.5	36.35	21.044	
8,265.0	8,124.0	7,510.0	7,380.5	28.7	31.3	11.03	886.2	-1,025.2	820.6	784.9	35.65	23.018	
8,300.0	8,159.0	7,510.0	7,380.5	28.7	31.3	11.03	886.2	-1,025.2	851.1	815.8	35.32	24.096	
8,360.0	8,219.0	7,510.0	7,380.5	28.8	31.3	11.03	886.2	-1,025.2	904.2	869.4	34.83	25.960	
8,400.0	8,259.0	7,529.4	7,389.5	28.8	31.3	10.42	903.3	-1,026.5	939.4	904.3	35.14	26.736	
8,455.0	8,314.0	7,536.9	7,392.7	28.8	31.3	10.19	910.1	-1,027.0	988.7	953.7	35.00	28.253	
8,500.0	8,359.0	7,557.0	7,400.8	28.8	31.3	9.60	928.4	-1,028.4	1,029.7	994.4	35.30	29.168	
8,550.0	8,409.0	7,557.0	7,400.8	28.8	31.3	9.60	928.4	-1,028.4	1,074.9	1,039.8	35.03	30.687	
8,600.0	8,459.0	7,557.0	7,400.8	28.8	31.3	9.60	928.4	-1,028.4	1,120.5	1,085.7	34.79	32.209	
8,645.0	8,504.0	7,557.0	7,400.8	28.8	31.3	9.60	928.4	-1,028.4	1,161.9	1,127.3	34.60	33.577	
8,700.0	8,559.0	7,557.0	7,400.8	28.9	31.3	9.60	928.4	-1,028.4	1,212.8	1,178.4	34.41	35.247	
8,740.0	8,599.0	7,557.0	7,400.8	28.9	31.3	9.60	928.4	-1,028.4	1,250.0	1,215.7	34.29	36.458	
8,800.0	8,659.0	7,557.0	7,400.8	28.9	31.3	9.60	928.4	-1,028.4	1,306.2	1,272.0	34.13	38.267	

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 #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #806H	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			Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:			Offset Well Error:	3.0 usft
Measured	Reference	Measured	Offset	Reference	Offset	Highside				Distance					
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W		Between	Between	Minimum	Separation		Warning
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)		Centres	Ellipses	Separation	Factor		
										(usft)	(usft)	(usft)			
0.0	0.0	0.0	0.0	3.0	3.0	16.35	889.5	260.9		927.6					
95.0	95.0	63.0	63.0	3.0	3.2	16.35	889.4	260.9		926.9	920.7	6.19	149.760		
100.0	100.0	68.1	68.1	3.0	3.2	16.35	889.4	260.9		926.9	920.7	6.22	149.008		
190.0	190.0	160.6	160.6	3.1	4.0	16.36	889.1	261.1		926.6	919.5	7.11	130.236		
200.0	200.0	170.9	170.9	3.1	4.1	16.37	889.0	261.1		926.6	919.3	7.24	127.893		
285.0	285.0	258.2	258.2	3.3	5.2	16.39	888.4	261.3		926.0	917.6	8.43	109.882		
300.0	300.0	273.6	273.6	3.3	5.4	16.40	888.2	261.3		925.9	917.3	8.66	106.973		
380.0	380.0	355.8	355.8	3.4	6.6	16.43	887.4	261.7		925.2	915.3	9.91	93.345		
400.0	400.0	376.4	376.4	3.4	6.9	16.44	887.1	261.7		925.0	914.7	10.24	90.347		
475.0	475.0	453.0	453.0	3.5	7.9	16.48	886.1	262.1		924.1	912.8	11.30	81.794		
500.0	500.0	478.2	478.2	3.5	8.1	16.49	885.7	262.3		923.8	912.3	11.52	80.202		
570.0	570.0	548.8	548.8	3.6	8.6	16.53	884.6	262.6		922.8	910.7	12.13	76.057		
600.0	600.0	579.1	579.0	3.6	8.9	16.55	884.1	262.8		922.4	910.0	12.40	74.388		
665.0	665.0	644.5	644.5	3.7	9.2	16.59	883.1	263.1		921.5	908.7	12.86	71.659		
700.0	700.0	679.7	679.6	3.8	9.4	16.61	882.5	263.3		921.0	908.0	13.01	70.790		
760.0	760.0	739.9	739.8	3.8	9.5	16.65	881.5	263.6		920.1	906.9	13.27	69.358		
800.0	800.0	780.1	780.0	3.9	9.7	16.67	880.8	263.8		919.5	906.1	13.44	68.425		
855.0	855.0	835.4	835.3	4.0	9.8	16.71	879.8	264.1		918.7	905.0	13.68	67.180		
900.0	900.0	880.7	880.6	4.0	10.0	16.74	879.0	264.4		918.0	904.2	13.87	66.182		
950.0	950.0	931.1	931.0	4.1	10.1	16.78	878.1	264.7		917.2	903.1	14.09	65.109		
1,000.0	1,000.0	981.4	981.3	4.1	10.3	16.81	877.1	265.0		916.4	902.1	14.31	64.061		
1,045.0	1,045.0	1,026.7	1,026.6	4.2	10.4	16.84	876.3	265.3		915.7	901.2	14.50	63.138		
1,100.0	1,100.0	1,082.1	1,082.0	4.2	10.6	16.88	875.2	265.6		914.7	900.0	14.75	62.035		
1,140.0	1,140.0	1,122.3	1,122.2	4.3	10.8	16.90	874.4	265.7		914.1	899.1	14.92	61.257		
1,200.0	1,200.0	1,182.7	1,182.6	4.4	11.0	16.94	873.3	266.0		913.0	897.8	15.19	60.121		
1,235.0	1,235.0	1,218.3	1,218.1	4.4	11.1	16.96	872.6	266.1		912.4	897.0	15.33	59.500		
1,300.0	1,300.0	1,284.3	1,284.1	4.5	11.3	16.99	871.2	266.1		911.1	895.5	15.61	58.370		
1,330.0	1,330.0	1,314.7	1,314.6	4.5	11.4	17.00	870.6	266.2		910.5	894.8	15.74	57.862		
1,400.0	1,400.0	1,386.2	1,386.0	4.6	11.6	17.02	869.1	266.1		909.1	893.1	16.04	56.694		
1,425.0	1,425.0	1,412.2	1,412.0	4.6	11.7	17.03	868.5	266.1		908.5	892.4	16.14	56.279		
1,500.0	1,500.0	1,490.1	1,489.9	4.7	12.0	17.08	866.4	266.1		906.7	890.2	16.47	55.053		
1,520.0	1,520.0	1,510.9	1,510.7	4.7	12.0	83.36	865.8	266.2		906.2	889.6	16.56	54.732		
1,600.0	1,600.0	1,585.9	1,585.6	4.8	12.2	83.56	863.6	266.5		903.8	887.0	16.83	53.702		
1,615.0	1,615.0	1,597.7	1,597.5	4.9	12.3	83.60	863.4	266.5		903.5	886.6	16.88	53.538		
1,700.0	1,699.8	1,667.0	1,666.7	5.0	12.4	83.87	862.8	266.5		902.3	885.1	17.13	52.674		
1,710.0	1,709.8	1,676.7	1,676.4	5.1	12.4	83.92	862.8	266.4		902.2	885.0	17.16	52.569		
1,800.0	1,799.5	1,764.1	1,763.8	5.3	12.5	84.41	862.9	266.3		901.4	884.0	17.45	51.645		
1,805.0	1,804.4	1,768.9	1,768.7	5.3	12.5	84.45	863.0	266.3		901.4	883.9	17.47	51.594		
1,900.0	1,898.7	1,861.1	1,860.9	5.6	12.7	85.18	863.3	266.4		900.7	882.9	17.79	50.629		
1,995.0	1,992.5	1,954.5	1,954.2	5.9	12.9	86.12	863.7	266.6		900.0	881.9	18.15	49.583		
2,000.0	1,997.5	1,959.4	1,959.1	5.9	12.9	86.17	863.7	266.7		900.0	881.8	18.17	49.529		
2,090.0	2,085.8	2,047.4	2,047.1	6.2	13.2	87.25	864.1	267.0		899.5	881.0	18.52	48.557		
2,100.0	2,095.6	2,057.2	2,056.9	6.3	13.2	87.38	864.1	267.0		899.4	880.9	18.56	48.451		
2,185.0	2,178.5	2,140.5	2,140.2	6.6	13.4	88.57	864.5	267.3		899.2	880.3	18.91	47.545		
2,200.0	2,193.0	2,155.1	2,154.9	6.6	13.4	88.80	864.5	267.4		899.2	880.2	18.98	47.389		
2,201.6	2,194.6	2,156.7	2,156.4	6.6	13.4	88.82	864.6	267.4		899.2	880.2	18.98	47.372 CC		
2,280.0	2,270.7	2,233.2	2,232.9	6.9	13.6	90.01	864.9	267.6		899.4	880.1	19.31	46.565 ES		
2,300.0	2,290.1	2,252.6	2,252.4	6.9	13.7	90.31	864.9	267.6		899.5	880.1	19.40	46.365		
2,375.0	2,362.9	2,325.5	2,325.2	7.2	13.9	91.43	865.2	267.8		900.1	880.4	19.73	45.631		
2,400.0	2,387.1	2,349.8	2,349.5	7.3	13.9	91.81	865.3	267.9		900.4	880.6	19.84	45.394		
2,470.0	2,455.0	2,417.8	2,417.5	7.5	14.1	92.86	865.5	268.1		901.4	881.3	20.15	44.741		

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 #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #806H	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		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Offset Well Error: 3.0 usft			
Measured	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	2,447.0	2,446.7	7.6	14.2	93.31	865.6	268.2	902.0	881.7	20.27	44.490			
2,565.0	2,547.2	2,510.4	2,510.1	7.8	14.3	94.29	865.8	268.4	903.3	882.8	20.54	43.967			
2,600.0	2,581.2	2,544.6	2,544.3	8.0	14.4	94.82	865.8	268.6	904.1	883.4	20.69	43.695			
2,660.0	2,639.4	2,603.1	2,602.8	8.2	14.5	95.72	865.9	268.8	905.7	884.8	20.95	43.236			
2,700.0	2,678.2	2,642.2	2,641.9	8.3	14.6	96.32	866.0	269.0	906.9	885.8	21.13	42.919			
2,755.0	2,731.6	2,696.0	2,695.7	8.5	14.8	97.15	866.0	269.1	908.6	887.2	21.39	42.481			
2,800.0	2,775.2	2,740.0	2,739.7	8.7	14.9	97.81	866.1	269.2	910.2	888.6	21.60	42.133			
2,850.0	2,823.7	2,789.0	2,788.7	8.9	15.0	98.55	866.2	269.3	912.1	890.2	21.84	41.753			
2,900.0	2,872.3	2,837.6	2,837.3	9.1	15.2	99.28	866.2	269.3	914.1	891.9	22.12	41.319			
2,945.0	2,915.9	2,881.2	2,880.9	9.3	15.3	99.93	866.3	269.2	916.0	893.6	22.39	40.908			
3,000.0	2,969.3	2,934.5	2,934.2	9.5	15.5	100.71	866.4	269.2	918.5	895.8	22.72	40.426			
3,040.0	3,008.1	2,973.3	2,973.0	9.7	15.6	101.28	866.5	269.2	920.5	897.5	22.96	40.087			
3,100.0	3,066.3	3,031.5	3,031.3	9.9	15.9	102.13	866.7	269.1	923.6	900.3	23.32	39.603			
3,135.0	3,100.3	3,065.6	3,065.3	10.1	16.0	102.63	866.8	269.0	925.5	902.0	23.53	39.332			
3,200.0	3,163.4	3,128.8	3,128.5	10.4	16.2	103.54	867.0	268.9	929.3	905.4	23.92	38.848			
3,230.0	3,192.5	3,157.9	3,157.6	10.5	16.3	103.95	867.1	268.9	931.1	907.0	24.10	38.633			
3,300.0	3,260.4	3,226.0	3,225.7	10.8	16.5	104.92	867.2	268.8	935.5	911.0	24.52	38.146			
3,325.0	3,284.6	3,250.3	3,250.0	10.9	16.6	105.27	867.3	268.8	937.2	912.5	24.68	37.977			
3,400.0	3,357.4	3,323.1	3,322.8	11.2	16.9	106.29	867.4	268.7	942.3	917.2	25.14	37.489			
3,420.0	3,376.8	3,342.5	3,342.3	11.3	17.0	106.57	867.5	268.7	943.7	918.5	25.26	37.363			
3,500.0	3,454.4	3,420.7	3,420.4	11.7	17.2	107.66	867.6	268.7	949.7	924.0	25.70	36.952			
3,515.0	3,469.0	3,435.4	3,435.2	11.7	17.2	107.86	867.6	268.6	950.8	925.0	25.78	36.888			
3,600.0	3,551.5	3,518.9	3,518.6	12.1	17.4	109.01	867.6	268.6	957.5	931.2	26.21	36.532			
3,610.0	3,561.2	3,528.7	3,528.4	12.1	17.4	109.15	867.6	268.6	958.3	932.0	26.26	36.491			
3,700.0	3,648.5	3,616.4	3,616.1	12.5	17.6	110.35	867.5	268.6	965.7	938.9	26.75	36.100			
3,705.0	3,653.4	3,621.3	3,621.0	12.6	17.7	110.41	867.5	268.5	966.1	939.3	26.78	36.078			
3,800.0	3,745.5	3,713.4	3,713.1	13.0	17.9	111.64	867.4	268.5	974.5	947.1	27.33	35.655			
3,895.0	3,837.7	3,806.1	3,805.8	13.4	18.1	112.86	867.3	268.3	983.2	955.3	27.89	35.251			
3,900.0	3,842.6	3,811.0	3,810.7	13.4	18.2	112.92	867.3	268.3	983.7	955.8	27.92	35.231			
3,990.0	3,929.9	3,899.1	3,898.8	13.8	18.4	114.06	867.2	268.2	992.4	963.9	28.47	34.862			
4,000.0	3,939.6	3,908.9	3,908.6	13.9	18.4	114.19	867.2	268.1	993.4	964.9	28.53	34.822			
4,085.0	4,022.1	3,992.1	3,991.8	14.3	18.7	115.25	867.0	268.0	1,001.9	972.9	29.07	34.467			
4,100.0	4,036.6	4,006.7	4,006.5	14.3	18.7	115.43	867.0	267.9	1,003.5	974.3	29.17	34.403			
4,180.0	4,114.2	4,085.0	4,084.7	14.7	18.9	116.40	866.8	267.7	1,011.8	982.1	29.70	34.065			
4,200.0	4,133.6	4,104.6	4,104.3	14.8	19.0	116.64	866.7	267.6	1,014.0	984.1	29.84	33.982			
4,275.0	4,206.4	4,177.6	4,177.4	15.1	19.2	117.54	866.5	267.4	1,022.1	991.7	30.35	33.680			
4,300.0	4,230.7	4,201.9	4,201.6	15.3	19.3	117.83	866.4	267.3	1,024.8	994.3	30.52	33.583			
4,370.0	4,298.6	4,269.9	4,269.6	15.6	19.5	118.64	866.3	267.0	1,032.7	1,001.7	31.00	33.316			
4,400.0	4,327.7	4,299.0	4,298.7	15.7	19.6	118.98	866.2	266.9	1,036.2	1,005.0	31.21	33.203			
4,465.0	4,390.8	4,361.8	4,361.5	16.0	19.8	119.72	866.0	266.7	1,043.8	1,012.1	31.66	32.966			
4,500.0	4,424.7	4,395.6	4,395.3	16.2	19.9	120.11	865.9	266.6	1,047.9	1,016.0	31.91	32.843			
4,560.0	4,483.0	4,453.4	4,453.1	16.5	20.0	120.77	865.8	266.4	1,055.2	1,022.9	32.33	32.635			
4,600.0	4,521.8	4,491.9	4,491.6	16.7	20.2	121.21	865.7	266.3	1,060.2	1,027.5	32.62	32.500			
4,655.0	4,575.1	4,545.3	4,545.0	16.9	20.3	121.81	865.6	266.2	1,067.1	1,034.1	33.02	32.318			
4,700.0	4,618.8	4,589.3	4,589.0	17.1	20.4	122.30	865.5	266.1	1,072.8	1,039.5	33.35	32.172			
4,750.0	4,667.3	4,638.2	4,637.9	17.4	20.6	122.83	865.4	265.9	1,079.3	1,045.6	33.71	32.013			
4,800.0	4,715.8	4,687.1	4,686.9	17.6	20.7	123.36	865.3	265.7	1,085.8	1,051.7	34.09	31.856			
4,845.0	4,759.5	4,730.5	4,730.2	17.8	20.9	123.83	865.2	265.6	1,091.8	1,057.4	34.41	31.732			
4,900.0	4,812.9	4,782.6	4,782.3	18.1	21.0	124.38	865.1	265.4	1,099.2	1,064.4	34.78	31.608			
4,940.0	4,851.7	4,820.4	4,820.1	18.2	21.1	124.77	865.1	265.3	1,104.7	1,069.7	35.05	31.521			
5,000.0	4,909.9	4,877.2	4,876.9	18.5	21.3	125.35	865.1	265.2	1,113.1	1,077.7	35.45	31.396			

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 #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #806H	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												Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Reference (usft)	Major Axis 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
5,035.0	4,943.8	4,910.4	4,910.1	18.7	21.4	125.69	865.1	265.2	1,118.1	1,082.4	35.70	31.325	
5,100.0	5,006.9	4,972.3	4,972.0	19.0	21.5	126.31	865.2	265.2	1,127.6	1,091.4	36.15	31.190	
5,130.0	5,036.0	5,001.7	5,001.5	19.1	21.6	126.61	865.2	265.2	1,132.0	1,095.7	36.38	31.117	
5,200.0	5,103.9	5,084.4	5,084.1	19.5	22.0	127.50	863.5	265.6	1,142.0	1,104.9	37.14	30.746	
5,225.0	5,128.2	5,114.7	5,114.4	19.6	22.2	127.87	862.0	265.9	1,145.4	1,108.0	37.47	30.573	
5,300.0	5,201.0	5,202.0	5,201.4	19.9	22.8	129.04	854.8	267.2	1,155.0	1,116.6	38.40	30.076	
5,320.0	5,220.4	5,221.2	5,220.4	20.0	22.9	129.31	852.9	267.5	1,157.6	1,119.0	38.56	30.020	
5,400.0	5,298.0	5,298.4	5,297.3	20.4	23.1	130.39	845.2	268.8	1,167.9	1,128.7	39.19	29.803	
5,415.0	5,312.6	5,313.4	5,312.2	20.5	23.2	130.59	843.7	269.1	1,169.9	1,130.5	39.31	29.763	
5,500.0	5,395.0	5,397.3	5,395.6	20.9	23.4	131.73	835.4	270.2	1,181.1	1,141.2	39.98	29.545	
5,510.0	5,404.7	5,406.8	5,405.1	20.9	23.5	131.85	834.5	270.3	1,182.5	1,142.4	40.06	29.521	
5,600.0	5,492.1	5,492.7	5,490.6	21.4	23.7	132.98	826.2	271.3	1,194.9	1,154.1	40.76	29.318	
5,605.0	5,496.9	5,497.6	5,495.4	21.4	23.7	133.04	825.7	271.3	1,195.6	1,154.8	40.80	29.306	
5,700.0	5,589.1	5,589.7	5,587.1	21.8	24.0	134.21	817.1	272.2	1,209.2	1,167.6	41.55	29.102	
5,795.0	5,681.3	5,680.1	5,677.2	22.3	24.3	135.33	808.7	272.9	1,223.2	1,180.9	42.30	28.917	
5,800.0	5,686.1	5,684.6	5,681.7	22.3	24.3	135.39	808.2	273.0	1,223.9	1,181.6	42.34	28.909	
5,890.0	5,773.5	5,765.8	5,762.5	22.8	24.5	136.36	801.0	273.8	1,237.9	1,194.9	43.02	28.772	
5,900.0	5,783.2	5,775.4	5,772.1	22.8	24.5	136.47	800.2	273.9	1,239.5	1,196.4	43.10	28.756	
5,985.0	5,865.6	5,855.0	5,851.4	23.2	24.8	137.37	793.9	274.5	1,253.2	1,209.4	43.77	28.633	
6,000.0	5,880.2	5,870.6	5,867.0	23.3	24.8	137.54	792.7	274.6	1,255.7	1,211.8	43.89	28.606	
6,080.0	5,957.8	5,942.6	5,938.8	23.7	25.0	138.30	787.7	275.2	1,269.1	1,224.6	44.50	28.519	
6,100.0	5,977.2	5,963.3	5,959.5	23.8	25.1	138.51	786.3	275.3	1,272.5	1,227.9	44.67	28.488	
6,175.0	6,050.0	6,050.2	6,046.1	24.1	25.4	139.42	779.8	275.6	1,285.1	1,239.7	45.37	28.327	
6,200.0	6,074.2	6,070.9	6,066.8	24.2	25.4	139.64	778.2	275.7	1,289.2	1,243.6	45.55	28.304	
6,270.0	6,142.2	6,132.0	6,127.7	24.6	25.6	140.26	773.6	275.8	1,301.1	1,255.0	46.07	28.239	
6,300.0	6,171.3	6,160.8	6,156.5	24.7	25.7	140.54	771.6	275.9	1,306.3	1,260.0	46.32	28.204	
6,365.0	6,234.3	6,226.5	6,221.9	25.0	25.9	141.17	767.4	276.0	1,317.7	1,270.8	46.86	28.119 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 #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #806H	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 3150.7ft @ 3182.7usft

Offset Depths are relative to Offset Datum

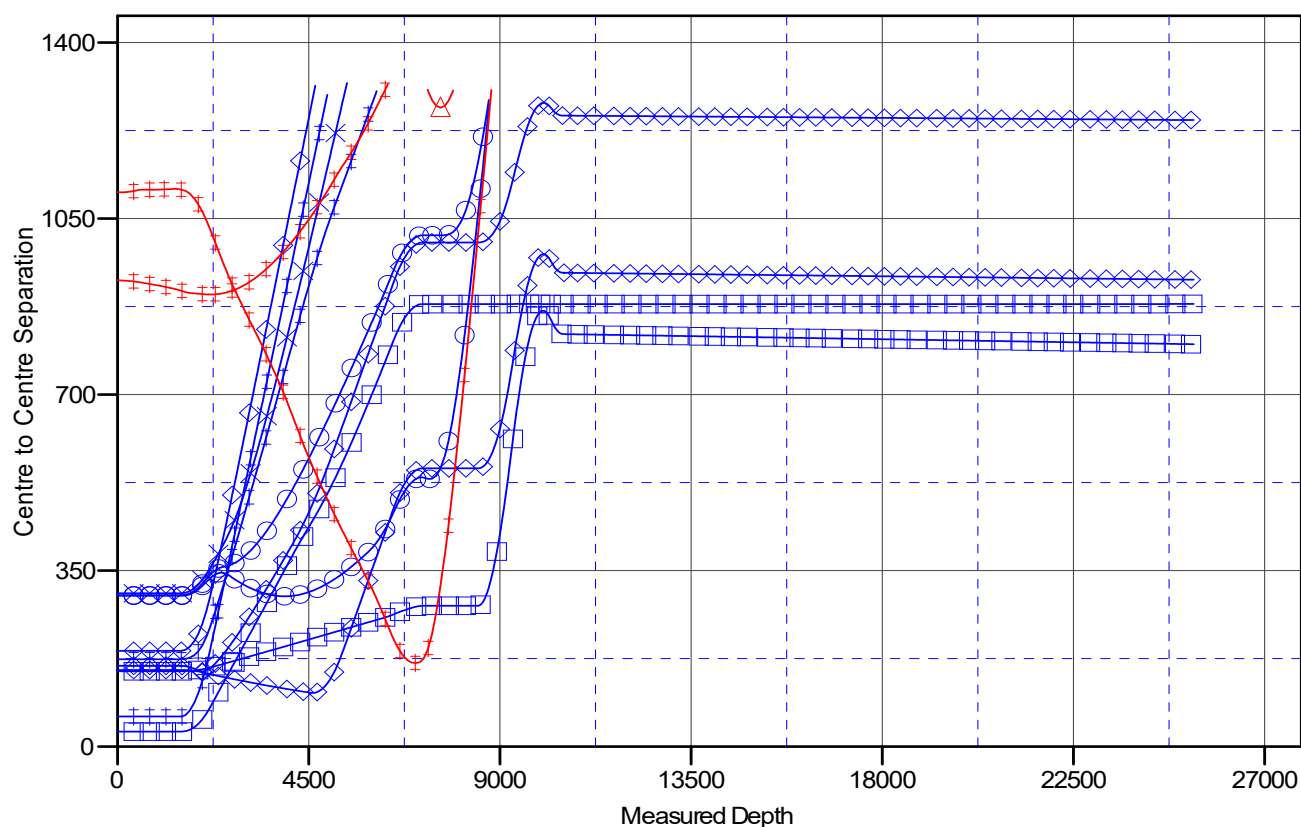
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: FLAMING SNAIL FEDERAL COM #806H

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

Grid Convergence at Surface is: 0.07°

Ladder Plot



LEGEND

COTTONBERRY 20 FEDERAL COM #6H, OWB, AWP V0	FLAMING SNAIL FEDERAL COM #707H, OWB, PWP1 V0	FLAMING SNAIL FEDERAL COM #805H, OWB, PWP1 V0
FLAMING SNAIL FEDERAL COM #503H, OWB, PWP0 V0	FLAMING SNAIL FEDERAL COM #706H, OWB, PWP1 V0	WHITE CITY 21 25 27 FEDERAL COM #5H, OWB, AWP V0
FLAMING SNAIL FEDERAL COM #504H, 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 #521H, OWB, PWP0 V0	FLAMING SNAIL FEDERAL COM #710H, OWB, PWP1 V0	
FLAMING SNAIL FEDERAL COM #706H, OWB, PWP1 V0	FLAMING SNAIL FEDERAL COM #804H, 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 #806H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #806H	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 3150.7ft @ 3182.7usft

Offset Depths are relative to Offset Datum

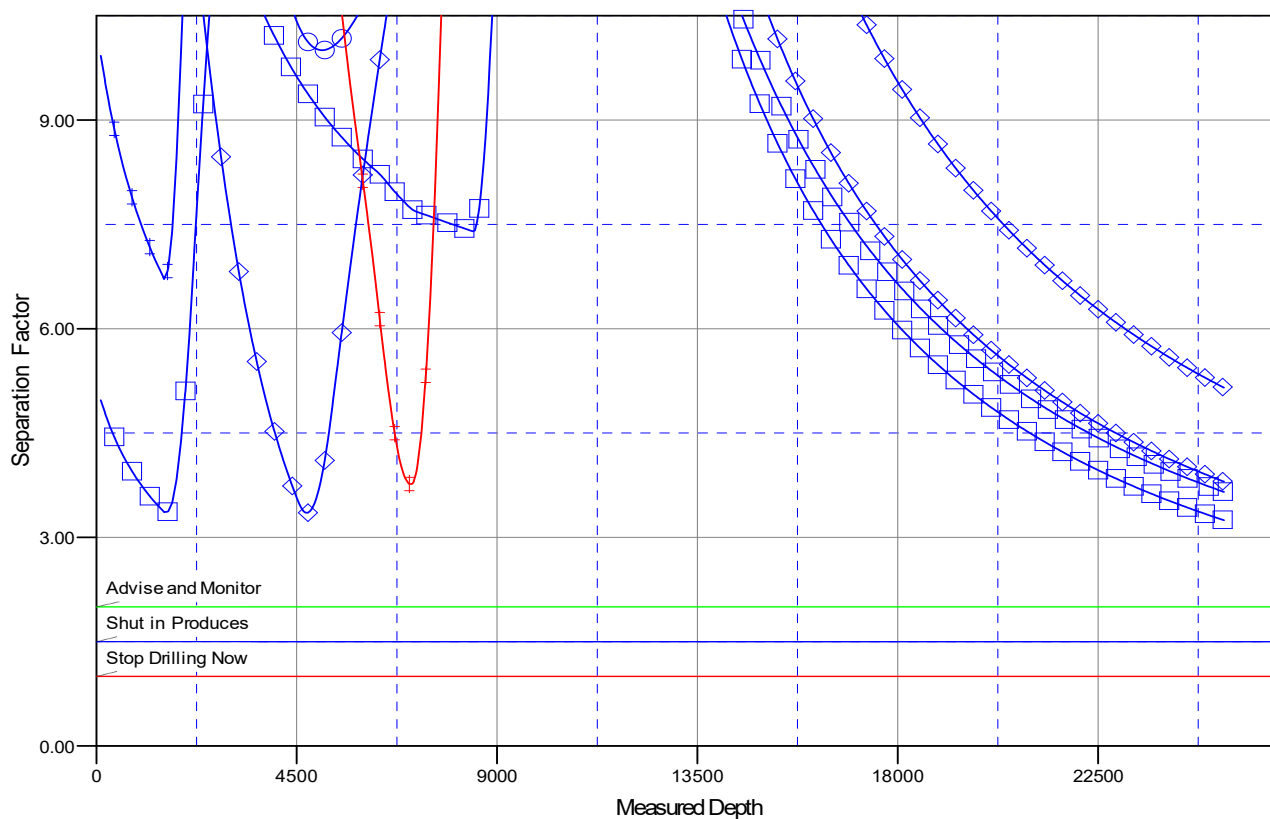
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: FLAMING SNAIL FEDERAL COM #806H

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

Grid Convergence at Surface is: 0.07°

Separation Factor Plot



LEGEND

COTTONBERRY 20 FEDERAL COM #4H, OWB, AWP V0	FLAMING SNAIL FEDERAL COM #707H, OWB, PWP1 V0	FLAMING SNAIL FEDERAL COM #805H, OWB, PWP1 V0
FLAMING SNAIL FEDERAL COM #503H, OWB, PWP0 V0	FLAMING SNAIL FEDERAL COM #709H, OWB, PWP1 V0	WHITE CITY 21 25 27 FEDERAL COM #5H, OWB, AWP V0
FLAMING SNAIL FEDERAL COM #504H, OWB, PWP0 V0	FLAMING SNAIL FEDERAL COM #710H, OWB, PWP1 V0	WHITE CITY 21 25 27 FEDERAL COM #6H, OWB, AWP V0
FLAMING SNAIL FEDERAL COM #521H, OWB, PWP0 V0	FLAMING SNAIL FEDERAL COM #804H, OWB, PWP1 V0	

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

DELAWARE BASIN WEST

ATLAS PROSPECT (NM-E)

FLAMING SNAIL FED COM PROJECT

FLAMING SNAIL FEDERAL COM #806H

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 #806H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #806H	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
From:	Map	Easting:	540,311.87 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 6' 28.642 N
		Longitude:	104° 12' 11.304 W
		Grid Convergence:	0.07 °

Well	FLAMING SNAIL FEDERAL COM #806H		
Well Position	+N/-S	-494.2 usft	Northing:
	+E/-W	1,695.2 usft	Easting:
Position Uncertainty		3.0 usft	Wellhead Elevation:
			Latitude:
			Longitude:
			Ground Level:

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2022	12/1/2023	6.78	59.68	47,314.41062986

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	184.67

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	9,308.0 PWP1 (OWB)	r.5 MWD+IFR1	OWSG MWD + IFR1 rev.5
3	9,308.0	25,330.7 PWP1 (OWB)	r.5 MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-St

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #806H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #806H	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	
2,200.0	14.00	293.75	2,193.0	34.3	-77.9	2.00	2.00	0.00	293.75	
6,479.0	14.00	293.75	6,345.0	451.1	-1,025.4	0.00	0.00	0.00	0.00	
7,179.0	0.00	0.00	7,038.0	485.4	-1,103.3	2.00	-2.00	0.00	180.00	
9,308.0	0.00	0.00	9,167.0	485.4	-1,103.3	0.00	0.00	0.00	0.00	VT (FLAMING SNAIL
10,207.7	89.97	180.51	9,740.0	-87.2	-1,108.4	10.00	10.00	-19.95	180.51	
25,200.7	89.97	180.51	9,747.9	-15,079.6	-1,241.5	0.00	0.00	0.00	0.00	LTP (FLAMING SNAII
25,330.7	89.97	180.51	9,748.0	-15,209.6	-1,242.7	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 #806H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #806H	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	293.75	1,600.0	0.7	-1.6	-0.6	2.00	2.00	0.00
1,700.0	4.00	293.75	1,699.8	2.8	-6.4	-2.3	2.00	2.00	0.00
1,800.0	6.00	293.75	1,799.5	6.3	-14.4	-5.1	2.00	2.00	0.00
1,900.0	8.00	293.75	1,898.7	11.2	-25.5	-9.1	2.00	2.00	0.00
2,000.0	10.00	293.75	1,997.5	17.5	-39.8	-14.2	2.00	2.00	0.00
2,100.0	12.00	293.75	2,095.6	25.2	-57.3	-20.5	2.00	2.00	0.00
2,200.0	14.00	293.75	2,193.0	34.3	-77.9	-27.8	2.00	2.00	0.00
Start 4279.0 hold at 2200.0 MD									
2,300.0	14.00	293.75	2,290.1	44.0	-100.0	-35.7	0.00	0.00	0.00
2,400.0	14.00	293.75	2,387.1	53.8	-122.2	-43.6	0.00	0.00	0.00
2,500.0	14.00	293.75	2,484.1	63.5	-144.3	-51.5	0.00	0.00	0.00
2,600.0	14.00	293.75	2,581.2	73.2	-166.5	-59.4	0.00	0.00	0.00
2,700.0	14.00	293.75	2,678.2	83.0	-188.6	-67.3	0.00	0.00	0.00
2,800.0	14.00	293.75	2,775.2	92.7	-210.8	-75.3	0.00	0.00	0.00
2,900.0	14.00	293.75	2,872.3	102.5	-232.9	-83.2	0.00	0.00	0.00
3,000.0	14.00	293.75	2,969.3	112.2	-255.0	-91.1	0.00	0.00	0.00
3,100.0	14.00	293.75	3,066.3	121.9	-277.2	-99.0	0.00	0.00	0.00
3,200.0	14.00	293.75	3,163.4	131.7	-299.3	-106.9	0.00	0.00	0.00
3,300.0	14.00	293.75	3,260.4	141.4	-321.5	-114.8	0.00	0.00	0.00
3,400.0	14.00	293.75	3,357.4	151.2	-343.6	-122.7	0.00	0.00	0.00
3,500.0	14.00	293.75	3,454.4	160.9	-365.8	-130.6	0.00	0.00	0.00
3,600.0	14.00	293.75	3,551.5	170.7	-387.9	-138.5	0.00	0.00	0.00
3,700.0	14.00	293.75	3,648.5	180.4	-410.0	-146.4	0.00	0.00	0.00
3,800.0	14.00	293.75	3,745.5	190.1	-432.2	-154.3	0.00	0.00	0.00
3,900.0	14.00	293.75	3,842.6	199.9	-454.3	-162.2	0.00	0.00	0.00
4,000.0	14.00	293.75	3,939.6	209.6	-476.5	-170.1	0.00	0.00	0.00
4,100.0	14.00	293.75	4,036.6	219.4	-498.6	-178.0	0.00	0.00	0.00
4,200.0	14.00	293.75	4,133.6	229.1	-520.8	-185.9	0.00	0.00	0.00
4,300.0	14.00	293.75	4,230.7	238.9	-542.9	-193.8	0.00	0.00	0.00
4,400.0	14.00	293.75	4,327.7	248.6	-565.0	-201.8	0.00	0.00	0.00
4,500.0	14.00	293.75	4,424.7	258.3	-587.2	-209.7	0.00	0.00	0.00
4,600.0	14.00	293.75	4,521.8	268.1	-609.3	-217.6	0.00	0.00	0.00
4,700.0	14.00	293.75	4,618.8	277.8	-631.5	-225.5	0.00	0.00	0.00
4,800.0	14.00	293.75	4,715.8	287.6	-653.6	-233.4	0.00	0.00	0.00
4,900.0	14.00	293.75	4,812.9	297.3	-675.8	-241.3	0.00	0.00	0.00
5,000.0	14.00	293.75	4,909.9	307.0	-697.9	-249.2	0.00	0.00	0.00
5,100.0	14.00	293.75	5,006.9	316.8	-720.1	-257.1	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #806H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #806H	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	293.75	5,103.9	326.5	-742.2	-265.0	0.00	0.00	0.00
5,300.0	14.00	293.75	5,201.0	336.3	-764.3	-272.9	0.00	0.00	0.00
5,400.0	14.00	293.75	5,298.0	346.0	-786.5	-280.8	0.00	0.00	0.00
5,500.0	14.00	293.75	5,395.0	355.8	-808.6	-288.7	0.00	0.00	0.00
5,600.0	14.00	293.75	5,492.1	365.5	-830.8	-296.6	0.00	0.00	0.00
5,700.0	14.00	293.75	5,589.1	375.2	-852.9	-304.5	0.00	0.00	0.00
5,800.0	14.00	293.75	5,686.1	385.0	-875.1	-312.4	0.00	0.00	0.00
5,900.0	14.00	293.75	5,783.2	394.7	-897.2	-320.4	0.00	0.00	0.00
6,000.0	14.00	293.75	5,880.2	404.5	-919.3	-328.3	0.00	0.00	0.00
6,100.0	14.00	293.75	5,977.2	414.2	-941.5	-336.2	0.00	0.00	0.00
6,200.0	14.00	293.75	6,074.2	424.0	-963.6	-344.1	0.00	0.00	0.00
6,300.0	14.00	293.75	6,171.3	433.7	-985.8	-352.0	0.00	0.00	0.00
6,400.0	14.00	293.75	6,268.3	443.4	-1,007.9	-359.9	0.00	0.00	0.00
6,479.0	14.00	293.75	6,345.0	451.1	-1,025.4	-366.1	0.00	0.00	0.00
Start Drop -2.00									
6,500.0	13.58	293.75	6,365.3	453.1	-1,030.0	-367.8	2.00	-2.00	0.00
6,600.0	11.58	293.75	6,462.9	461.9	-1,049.9	-374.9	2.00	-2.00	0.00
6,700.0	9.58	293.75	6,561.2	469.3	-1,066.7	-380.9	2.00	-2.00	0.00
6,800.0	7.58	293.75	6,660.1	475.3	-1,080.4	-385.8	2.00	-2.00	0.00
6,900.0	5.58	293.75	6,759.5	479.9	-1,090.9	-389.5	2.00	-2.00	0.00
7,000.0	3.58	293.75	6,859.1	483.1	-1,098.2	-392.1	2.00	-2.00	0.00
7,100.0	1.58	293.75	6,959.0	485.0	-1,102.3	-393.6	2.00	-2.00	0.00
7,179.0	0.00	0.00	7,038.0	485.4	-1,103.3	-393.9	2.00	-2.00	0.00
Start 2129.0 hold at 7179.0 MD									
7,200.0	0.00	0.00	7,059.0	485.4	-1,103.3	-393.9	0.00	0.00	0.00
7,300.0	0.00	0.00	7,159.0	485.4	-1,103.3	-393.9	0.00	0.00	0.00
7,400.0	0.00	0.00	7,259.0	485.4	-1,103.3	-393.9	0.00	0.00	0.00
7,500.0	0.00	0.00	7,359.0	485.4	-1,103.3	-393.9	0.00	0.00	0.00
7,600.0	0.00	0.00	7,459.0	485.4	-1,103.3	-393.9	0.00	0.00	0.00
7,700.0	0.00	0.00	7,559.0	485.4	-1,103.3	-393.9	0.00	0.00	0.00
7,800.0	0.00	0.00	7,659.0	485.4	-1,103.3	-393.9	0.00	0.00	0.00
7,900.0	0.00	0.00	7,759.0	485.4	-1,103.3	-393.9	0.00	0.00	0.00
8,000.0	0.00	0.00	7,859.0	485.4	-1,103.3	-393.9	0.00	0.00	0.00
8,100.0	0.00	0.00	7,959.0	485.4	-1,103.3	-393.9	0.00	0.00	0.00
8,200.0	0.00	0.00	8,059.0	485.4	-1,103.3	-393.9	0.00	0.00	0.00
8,300.0	0.00	0.00	8,159.0	485.4	-1,103.3	-393.9	0.00	0.00	0.00
8,400.0	0.00	0.00	8,259.0	485.4	-1,103.3	-393.9	0.00	0.00	0.00
8,500.0	0.00	0.00	8,359.0	485.4	-1,103.3	-393.9	0.00	0.00	0.00
8,600.0	0.00	0.00	8,459.0	485.4	-1,103.3	-393.9	0.00	0.00	0.00
8,700.0	0.00	0.00	8,559.0	485.4	-1,103.3	-393.9	0.00	0.00	0.00
8,800.0	0.00	0.00	8,659.0	485.4	-1,103.3	-393.9	0.00	0.00	0.00
8,900.0	0.00	0.00	8,759.0	485.4	-1,103.3	-393.9	0.00	0.00	0.00
9,000.0	0.00	0.00	8,859.0	485.4	-1,103.3	-393.9	0.00	0.00	0.00
9,100.0	0.00	0.00	8,959.0	485.4	-1,103.3	-393.9	0.00	0.00	0.00
9,200.0	0.00	0.00	9,059.0	485.4	-1,103.3	-393.9	0.00	0.00	0.00
9,308.0	0.00	0.00	9,167.0	485.4	-1,103.3	-393.9	0.00	0.00	0.00
Start DLS 10.00 TFO 180.51									
9,350.0	4.20	180.51	9,209.0	483.9	-1,103.3	-392.4	10.00	10.00	0.00
9,400.0	9.20	180.51	9,258.6	478.0	-1,103.4	-386.6	10.00	10.00	0.00
9,450.0	14.20	180.51	9,307.6	467.9	-1,103.5	-376.5	10.00	10.00	0.00
9,500.0	19.20	180.51	9,355.4	453.5	-1,103.6	-362.2	10.00	10.00	0.00
9,550.0	24.20	180.51	9,401.9	435.1	-1,103.7	-343.7	10.00	10.00	0.00
9,600.0	29.20	180.51	9,446.5	412.6	-1,103.9	-321.3	10.00	10.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #806H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #806H	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)
9,650.0	34.20	180.51	9,489.1	386.3	-1,104.2	-295.1	10.00	10.00	0.00
9,700.0	39.20	180.51	9,529.1	356.5	-1,104.4	-265.4	10.00	10.00	0.00
9,750.0	44.20	180.51	9,566.5	323.2	-1,104.7	-232.2	10.00	10.00	0.00
9,800.0	49.20	180.51	9,600.7	286.9	-1,105.1	-195.9	10.00	10.00	0.00
9,850.0	54.20	180.51	9,631.7	247.6	-1,105.4	-156.8	10.00	10.00	0.00
9,900.0	59.20	180.51	9,659.2	205.9	-1,105.8	-115.1	10.00	10.00	0.00
9,950.0	64.20	180.51	9,682.9	161.9	-1,106.2	-71.2	10.00	10.00	0.00
10,000.0	69.20	180.51	9,702.6	115.9	-1,106.6	-25.4	10.00	10.00	0.00
10,050.0	74.20	180.51	9,718.3	68.5	-1,107.0	21.9	10.00	10.00	0.00
10,100.0	79.20	180.51	9,729.8	19.9	-1,107.4	70.4	10.00	10.00	0.00
10,150.0	84.20	180.51	9,737.1	-29.6	-1,107.9	119.7	10.00	10.00	0.00
10,200.0	89.20	180.51	9,739.9	-79.5	-1,108.3	169.5	10.00	10.00	0.00
10,207.7	89.97	180.51	9,740.0	-87.2	-1,108.4	177.2	10.00	10.00	0.00
Start 14993.0 hold at 10207.7 MD									
10,300.0	89.97	180.51	9,740.0	-179.5	-1,109.2	269.2	0.00	0.00	0.00
10,400.0	89.97	180.51	9,740.1	-279.5	-1,110.1	369.0	0.00	0.00	0.00
10,500.0	89.97	180.51	9,740.2	-379.5	-1,111.0	468.7	0.00	0.00	0.00
10,600.0	89.97	180.51	9,740.2	-479.5	-1,111.9	568.4	0.00	0.00	0.00
10,700.0	89.97	180.51	9,740.3	-579.5	-1,112.8	668.2	0.00	0.00	0.00
10,800.0	89.97	180.51	9,740.3	-679.5	-1,113.6	767.9	0.00	0.00	0.00
10,900.0	89.97	180.51	9,740.4	-779.5	-1,114.5	867.6	0.00	0.00	0.00
11,000.0	89.97	180.51	9,740.4	-879.5	-1,115.4	967.4	0.00	0.00	0.00
11,100.0	89.97	180.51	9,740.5	-979.5	-1,116.3	1,067.1	0.00	0.00	0.00
11,200.0	89.97	180.51	9,740.5	-1,079.5	-1,117.2	1,166.9	0.00	0.00	0.00
11,300.0	89.97	180.51	9,740.6	-1,179.5	-1,118.1	1,266.6	0.00	0.00	0.00
11,400.0	89.97	180.51	9,740.6	-1,279.5	-1,119.0	1,366.3	0.00	0.00	0.00
11,500.0	89.97	180.51	9,740.7	-1,379.5	-1,119.9	1,466.1	0.00	0.00	0.00
11,600.0	89.97	180.51	9,740.7	-1,479.4	-1,120.7	1,565.8	0.00	0.00	0.00
11,700.0	89.97	180.51	9,740.8	-1,579.4	-1,121.6	1,665.5	0.00	0.00	0.00
11,800.0	89.97	180.51	9,740.8	-1,679.4	-1,122.5	1,765.3	0.00	0.00	0.00
11,900.0	89.97	180.51	9,740.9	-1,779.4	-1,123.4	1,865.0	0.00	0.00	0.00
12,000.0	89.97	180.51	9,740.9	-1,879.4	-1,124.3	1,964.7	0.00	0.00	0.00
12,100.0	89.97	180.51	9,741.0	-1,979.4	-1,125.2	2,064.5	0.00	0.00	0.00
12,200.0	89.97	180.51	9,741.1	-2,079.4	-1,126.1	2,164.2	0.00	0.00	0.00
12,300.0	89.97	180.51	9,741.1	-2,179.4	-1,127.0	2,264.0	0.00	0.00	0.00
12,400.0	89.97	180.51	9,741.2	-2,279.4	-1,127.8	2,363.7	0.00	0.00	0.00
12,500.0	89.97	180.51	9,741.2	-2,379.4	-1,128.7	2,463.4	0.00	0.00	0.00
12,600.0	89.97	180.51	9,741.3	-2,479.4	-1,129.6	2,563.2	0.00	0.00	0.00
12,700.0	89.97	180.51	9,741.3	-2,579.4	-1,130.5	2,662.9	0.00	0.00	0.00
12,800.0	89.97	180.51	9,741.4	-2,679.4	-1,131.4	2,762.6	0.00	0.00	0.00
12,900.0	89.97	180.51	9,741.4	-2,779.4	-1,132.3	2,862.4	0.00	0.00	0.00
13,000.0	89.97	180.51	9,741.5	-2,879.4	-1,133.2	2,962.1	0.00	0.00	0.00
13,100.0	89.97	180.51	9,741.5	-2,979.4	-1,134.1	3,061.8	0.00	0.00	0.00
13,200.0	89.97	180.51	9,741.6	-3,079.4	-1,135.0	3,161.6	0.00	0.00	0.00
13,300.0	89.97	180.51	9,741.6	-3,179.4	-1,135.8	3,261.3	0.00	0.00	0.00
13,400.0	89.97	180.51	9,741.7	-3,279.4	-1,136.7	3,361.1	0.00	0.00	0.00
13,500.0	89.97	180.51	9,741.7	-3,379.4	-1,137.6	3,460.8	0.00	0.00	0.00
13,600.0	89.97	180.51	9,741.8	-3,479.4	-1,138.5	3,560.5	0.00	0.00	0.00
13,700.0	89.97	180.51	9,741.8	-3,579.4	-1,139.4	3,660.3	0.00	0.00	0.00
13,800.0	89.97	180.51	9,741.9	-3,679.4	-1,140.3	3,760.0	0.00	0.00	0.00
13,900.0	89.97	180.51	9,742.0	-3,779.4	-1,141.2	3,859.7	0.00	0.00	0.00
14,000.0	89.97	180.51	9,742.0	-3,879.4	-1,142.1	3,959.5	0.00	0.00	0.00
14,100.0	89.97	180.51	9,742.1	-3,979.3	-1,142.9	4,059.2	0.00	0.00	0.00
14,200.0	89.97	180.51	9,742.1	-4,079.3	-1,143.8	4,158.9	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #806H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #806H	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)
14,300.0	89.97	180.51	9,742.2	-4,179.3	-1,144.7	4,258.7	0.00	0.00	0.00
14,400.0	89.97	180.51	9,742.2	-4,279.3	-1,145.6	4,358.4	0.00	0.00	0.00
14,500.0	89.97	180.51	9,742.3	-4,379.3	-1,146.5	4,458.2	0.00	0.00	0.00
14,600.0	89.97	180.51	9,742.3	-4,479.3	-1,147.4	4,557.9	0.00	0.00	0.00
14,700.0	89.97	180.51	9,742.4	-4,579.3	-1,148.3	4,657.6	0.00	0.00	0.00
14,800.0	89.97	180.51	9,742.4	-4,679.3	-1,149.2	4,757.4	0.00	0.00	0.00
14,900.0	89.97	180.51	9,742.5	-4,779.3	-1,150.0	4,857.1	0.00	0.00	0.00
15,000.0	89.97	180.51	9,742.5	-4,879.3	-1,150.9	4,956.8	0.00	0.00	0.00
15,100.0	89.97	180.51	9,742.6	-4,979.3	-1,151.8	5,056.6	0.00	0.00	0.00
15,200.0	89.97	180.51	9,742.6	-5,079.3	-1,152.7	5,156.3	0.00	0.00	0.00
15,300.0	89.97	180.51	9,742.7	-5,179.3	-1,153.6	5,256.0	0.00	0.00	0.00
15,400.0	89.97	180.51	9,742.7	-5,279.3	-1,154.5	5,355.8	0.00	0.00	0.00
15,500.0	89.97	180.51	9,742.8	-5,379.3	-1,155.4	5,455.5	0.00	0.00	0.00
15,600.0	89.97	180.51	9,742.9	-5,479.3	-1,156.3	5,555.3	0.00	0.00	0.00
15,700.0	89.97	180.51	9,742.9	-5,579.3	-1,157.1	5,655.0	0.00	0.00	0.00
15,800.0	89.97	180.51	9,743.0	-5,679.3	-1,158.0	5,754.7	0.00	0.00	0.00
15,900.0	89.97	180.51	9,743.0	-5,779.3	-1,158.9	5,854.5	0.00	0.00	0.00
16,000.0	89.97	180.51	9,743.1	-5,879.3	-1,159.8	5,954.2	0.00	0.00	0.00
16,100.0	89.97	180.51	9,743.1	-5,979.3	-1,160.7	6,053.9	0.00	0.00	0.00
16,200.0	89.97	180.51	9,743.2	-6,079.3	-1,161.6	6,153.7	0.00	0.00	0.00
16,300.0	89.97	180.51	9,743.2	-6,179.3	-1,162.5	6,253.4	0.00	0.00	0.00
16,400.0	89.97	180.51	9,743.3	-6,279.3	-1,163.4	6,353.1	0.00	0.00	0.00
16,500.0	89.97	180.51	9,743.3	-6,379.3	-1,164.3	6,452.9	0.00	0.00	0.00
16,600.0	89.97	180.51	9,743.4	-6,479.3	-1,165.1	6,552.6	0.00	0.00	0.00
16,700.0	89.97	180.51	9,743.4	-6,579.2	-1,166.0	6,652.3	0.00	0.00	0.00
16,800.0	89.97	180.51	9,743.5	-6,679.2	-1,166.9	6,752.1	0.00	0.00	0.00
16,900.0	89.97	180.51	9,743.5	-6,779.2	-1,167.8	6,851.8	0.00	0.00	0.00
17,000.0	89.97	180.51	9,743.6	-6,879.2	-1,168.7	6,951.6	0.00	0.00	0.00
17,100.0	89.97	180.51	9,743.6	-6,979.2	-1,169.6	7,051.3	0.00	0.00	0.00
17,200.0	89.97	180.51	9,743.7	-7,079.2	-1,170.5	7,151.0	0.00	0.00	0.00
17,300.0	89.97	180.51	9,743.8	-7,179.2	-1,171.4	7,250.8	0.00	0.00	0.00
17,400.0	89.97	180.51	9,743.8	-7,279.2	-1,172.2	7,350.5	0.00	0.00	0.00
17,500.0	89.97	180.51	9,743.9	-7,379.2	-1,173.1	7,450.2	0.00	0.00	0.00
17,600.0	89.97	180.51	9,743.9	-7,479.2	-1,174.0	7,550.0	0.00	0.00	0.00
17,700.0	89.97	180.51	9,744.0	-7,579.2	-1,174.9	7,649.7	0.00	0.00	0.00
17,800.0	89.97	180.51	9,744.0	-7,679.2	-1,175.8	7,749.4	0.00	0.00	0.00
17,900.0	89.97	180.51	9,744.1	-7,779.2	-1,176.7	7,849.2	0.00	0.00	0.00
18,000.0	89.97	180.51	9,744.1	-7,879.2	-1,177.6	7,948.9	0.00	0.00	0.00
18,100.0	89.97	180.51	9,744.2	-7,979.2	-1,178.5	8,048.7	0.00	0.00	0.00
18,200.0	89.97	180.51	9,744.2	-8,079.2	-1,179.3	8,148.4	0.00	0.00	0.00
18,300.0	89.97	180.51	9,744.3	-8,179.2	-1,180.2	8,248.1	0.00	0.00	0.00
18,400.0	89.97	180.51	9,744.3	-8,279.2	-1,181.1	8,347.9	0.00	0.00	0.00
18,500.0	89.97	180.51	9,744.4	-8,379.2	-1,182.0	8,447.6	0.00	0.00	0.00
18,600.0	89.97	180.51	9,744.4	-8,479.2	-1,182.9	8,547.3	0.00	0.00	0.00
18,700.0	89.97	180.51	9,744.5	-8,579.2	-1,183.8	8,647.1	0.00	0.00	0.00
18,800.0	89.97	180.51	9,744.5	-8,679.2	-1,184.7	8,746.8	0.00	0.00	0.00
18,900.0	89.97	180.51	9,744.6	-8,779.2	-1,185.6	8,846.5	0.00	0.00	0.00
19,000.0	89.97	180.51	9,744.7	-8,879.2	-1,186.4	8,946.3	0.00	0.00	0.00
19,100.0	89.97	180.51	9,744.7	-8,979.2	-1,187.3	9,046.0	0.00	0.00	0.00
19,200.0	89.97	180.51	9,744.8	-9,079.1	-1,188.2	9,145.8	0.00	0.00	0.00
19,300.0	89.97	180.51	9,744.8	-9,179.1	-1,189.1	9,245.5	0.00	0.00	0.00
19,400.0	89.97	180.51	9,744.9	-9,279.1	-1,190.0	9,345.2	0.00	0.00	0.00
19,500.0	89.97	180.51	9,744.9	-9,379.1	-1,190.9	9,445.0	0.00	0.00	0.00
19,600.0	89.97	180.51	9,745.0	-9,479.1	-1,191.8	9,544.7	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #806H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #806H	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)
19,700.0	89.97	180.51	9,745.0	-9,579.1	-1,192.7	9,644.4	0.00	0.00	0.00
19,800.0	89.97	180.51	9,745.1	-9,679.1	-1,193.5	9,744.2	0.00	0.00	0.00
19,900.0	89.97	180.51	9,745.1	-9,779.1	-1,194.4	9,843.9	0.00	0.00	0.00
20,000.0	89.97	180.51	9,745.2	-9,879.1	-1,195.3	9,943.6	0.00	0.00	0.00
20,100.0	89.97	180.51	9,745.2	-9,979.1	-1,196.2	10,043.4	0.00	0.00	0.00
20,200.0	89.97	180.51	9,745.3	-10,079.1	-1,197.1	10,143.1	0.00	0.00	0.00
20,300.0	89.97	180.51	9,745.3	-10,179.1	-1,198.0	10,242.9	0.00	0.00	0.00
20,400.0	89.97	180.51	9,745.4	-10,279.1	-1,198.9	10,342.6	0.00	0.00	0.00
20,500.0	89.97	180.51	9,745.4	-10,379.1	-1,199.8	10,442.3	0.00	0.00	0.00
20,600.0	89.97	180.51	9,745.5	-10,479.1	-1,200.7	10,542.1	0.00	0.00	0.00
20,700.0	89.97	180.51	9,745.5	-10,579.1	-1,201.5	10,641.8	0.00	0.00	0.00
20,800.0	89.97	180.51	9,745.6	-10,679.1	-1,202.4	10,741.5	0.00	0.00	0.00
20,900.0	89.97	180.51	9,745.7	-10,779.1	-1,203.3	10,841.3	0.00	0.00	0.00
21,000.0	89.97	180.51	9,745.7	-10,879.1	-1,204.2	10,941.0	0.00	0.00	0.00
21,100.0	89.97	180.51	9,745.8	-10,979.1	-1,205.1	11,040.7	0.00	0.00	0.00
21,200.0	89.97	180.51	9,745.8	-11,079.1	-1,206.0	11,140.5	0.00	0.00	0.00
21,300.0	89.97	180.51	9,745.9	-11,179.1	-1,206.9	11,240.2	0.00	0.00	0.00
21,400.0	89.97	180.51	9,745.9	-11,279.1	-1,207.8	11,340.0	0.00	0.00	0.00
21,500.0	89.97	180.51	9,746.0	-11,379.1	-1,208.6	11,439.7	0.00	0.00	0.00
21,600.0	89.97	180.51	9,746.0	-11,479.1	-1,209.5	11,539.4	0.00	0.00	0.00
21,700.0	89.97	180.51	9,746.1	-11,579.0	-1,210.4	11,639.2	0.00	0.00	0.00
21,800.0	89.97	180.51	9,746.1	-11,679.0	-1,211.3	11,738.9	0.00	0.00	0.00
21,900.0	89.97	180.51	9,746.2	-11,779.0	-1,212.2	11,838.6	0.00	0.00	0.00
22,000.0	89.97	180.51	9,746.2	-11,879.0	-1,213.1	11,938.4	0.00	0.00	0.00
22,100.0	89.97	180.51	9,746.3	-11,979.0	-1,214.0	12,038.1	0.00	0.00	0.00
22,200.0	89.97	180.51	9,746.3	-12,079.0	-1,214.9	12,137.8	0.00	0.00	0.00
22,300.0	89.97	180.51	9,746.4	-12,179.0	-1,215.7	12,237.6	0.00	0.00	0.00
22,400.0	89.97	180.51	9,746.4	-12,279.0	-1,216.6	12,337.3	0.00	0.00	0.00
22,500.0	89.97	180.51	9,746.5	-12,379.0	-1,217.5	12,437.1	0.00	0.00	0.00
22,600.0	89.97	180.51	9,746.6	-12,479.0	-1,218.4	12,536.8	0.00	0.00	0.00
22,700.0	89.97	180.51	9,746.6	-12,579.0	-1,219.3	12,636.5	0.00	0.00	0.00
22,800.0	89.97	180.51	9,746.7	-12,679.0	-1,220.2	12,736.3	0.00	0.00	0.00
22,900.0	89.97	180.51	9,746.7	-12,779.0	-1,221.1	12,836.0	0.00	0.00	0.00
23,000.0	89.97	180.51	9,746.8	-12,879.0	-1,222.0	12,935.7	0.00	0.00	0.00
23,100.0	89.97	180.51	9,746.8	-12,979.0	-1,222.8	13,035.5	0.00	0.00	0.00
23,200.0	89.97	180.51	9,746.9	-13,079.0	-1,223.7	13,135.2	0.00	0.00	0.00
23,300.0	89.97	180.51	9,746.9	-13,179.0	-1,224.6	13,234.9	0.00	0.00	0.00
23,400.0	89.97	180.51	9,747.0	-13,279.0	-1,225.5	13,334.7	0.00	0.00	0.00
23,500.0	89.97	180.51	9,747.0	-13,379.0	-1,226.4	13,434.4	0.00	0.00	0.00
23,600.0	89.97	180.51	9,747.1	-13,479.0	-1,227.3	13,534.1	0.00	0.00	0.00
23,700.0	89.97	180.51	9,747.1	-13,579.0	-1,228.2	13,633.9	0.00	0.00	0.00
23,800.0	89.97	180.51	9,747.2	-13,679.0	-1,229.1	13,733.6	0.00	0.00	0.00
23,900.0	89.97	180.51	9,747.2	-13,779.0	-1,230.0	13,833.4	0.00	0.00	0.00
24,000.0	89.97	180.51	9,747.3	-13,879.0	-1,230.8	13,933.1	0.00	0.00	0.00
24,100.0	89.97	180.51	9,747.3	-13,979.0	-1,231.7	14,032.8	0.00	0.00	0.00
24,200.0	89.97	180.51	9,747.4	-14,078.9	-1,232.6	14,132.6	0.00	0.00	0.00
24,300.0	89.97	180.51	9,747.5	-14,178.9	-1,233.5	14,232.3	0.00	0.00	0.00
24,400.0	89.97	180.51	9,747.5	-14,278.9	-1,234.4	14,332.0	0.00	0.00	0.00
24,500.0	89.97	180.51	9,747.6	-14,378.9	-1,235.3	14,431.8	0.00	0.00	0.00
24,600.0	89.97	180.51	9,747.6	-14,478.9	-1,236.2	14,531.5	0.00	0.00	0.00
24,700.0	89.97	180.51	9,747.7	-14,578.9	-1,237.1	14,631.2	0.00	0.00	0.00
24,800.0	89.97	180.51	9,747.7	-14,678.9	-1,237.9	14,731.0	0.00	0.00	0.00
24,900.0	89.97	180.51	9,747.8	-14,778.9	-1,238.8	14,830.7	0.00	0.00	0.00
25,000.0	89.97	180.51	9,747.8	-14,878.9	-1,239.7	14,930.5	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #806H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3150.7ft @ 3182.7usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #806H	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)	
25,100.0	89.97	180.51	9,747.9	-14,978.9	-1,240.6	15,030.2	0.00	0.00	0.00	
25,200.7	89.97	180.51	9,747.9	-15,079.6	-1,241.5	15,130.6	0.00	0.00	0.00	
Start 130.0 hold at 25200.7 MD										
25,300.0	89.97	180.51	9,748.0	-15,178.9	-1,242.4	15,229.7	0.00	0.00	0.00	
25,330.7	89.97	180.51	9,748.0	-15,209.6	-1,242.7	15,260.3	0.00	0.00	0.00	
TD at 25330.7										

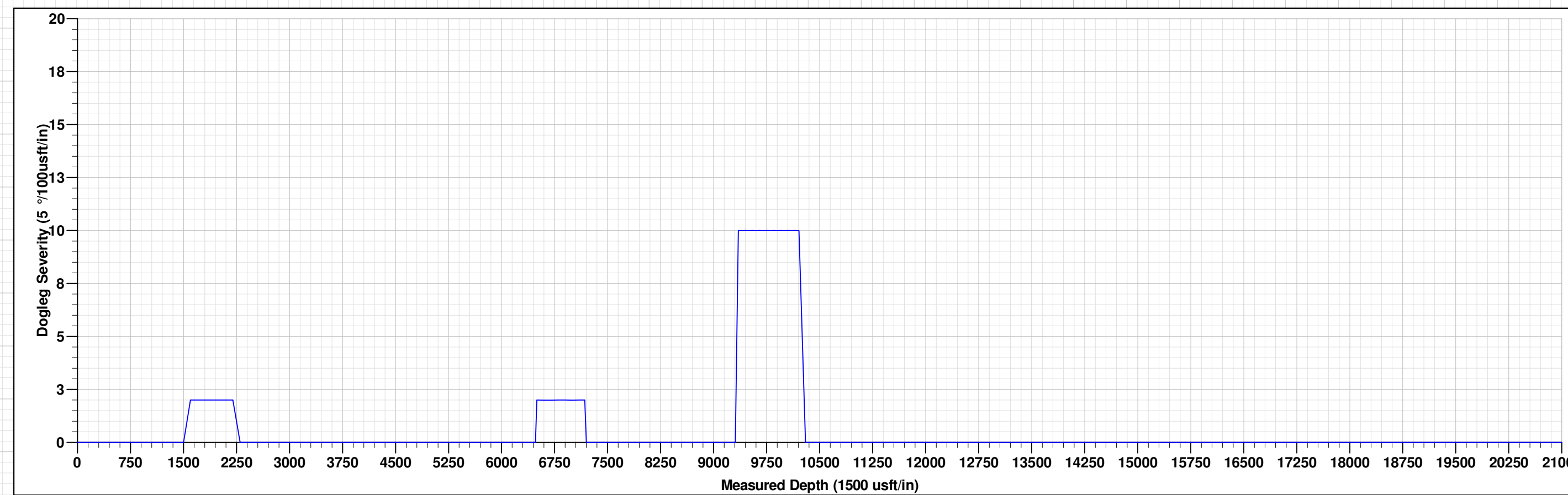
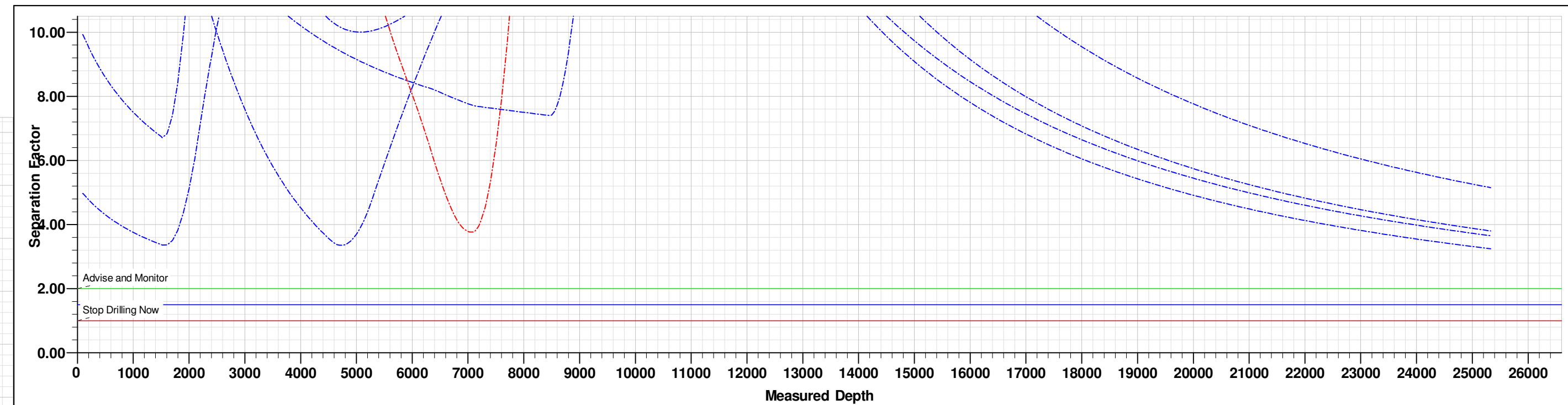
Design Targets										
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude		Longitude
VT (FLAMING SNAIL FE - plan hits target center - Circle (radius 25.0)	0.00	0.00	9,167.0	485.4	-1,103.3	403,012.90	540,903.80	32° 6' 28.547 N		104° 12' 4.422 W
FTP (FLAMING SNAIL F - plan misses target center by 70.6usft at 9938.7usft MD (9677.9 TVD, 171.9 N, -1106.1 E) - Circle (radius 50.0)	0.00	0.00	9,740.0	205.4	-1,105.6	402,732.90	540,901.50	32° 6' 25.776 N		104° 12' 4.453 W
LTP (FLAMING SNAIL F - plan hits target center - Point	0.00	0.00	9,747.9	-15,079.6	-1,241.5	387,447.90	540,765.60	32° 3' 54.509 N		104° 12' 6.250 W
PBHL (FLAMING SNAIL - plan hits target center - Rectangle (sides W100.0 H15,415.7 D20.0)	0.03	0.51	9,748.0	-15,209.6	-1,242.7	387,317.90	540,764.40	32° 3' 53.222 N		104° 12' 6.266 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	
2,200.0	2,193.0	34.3	-77.9	Start 4279.0 hold at 2200.0 MD	
6,479.0	6,345.0	451.1	-1,025.4	Start Drop -2.00	
7,179.0	7,038.0	485.4	-1,103.3	Start 2129.0 hold at 7179.0 MD	
9,308.0	9,167.0	485.4	-1,103.3	Start DLS 10.00 TFO 180.51	
10,207.7	9,740.0	-87.2	-1,108.4	Start 14993.0 hold at 10207.7 MD	
25,200.7	9,747.9	-15,079.6	-1,241.5	Start 130.0 hold at 25200.7 MD	
25,330.7	9,748.0	-15,209.6	-1,242.7	TD at 25330.7	

WELL DETAILS: FLAMING SNAIL FEDERAL COM #806H					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	402527.50	542007.10	32° 6' 23.730 N	104° 11' 51.602 W

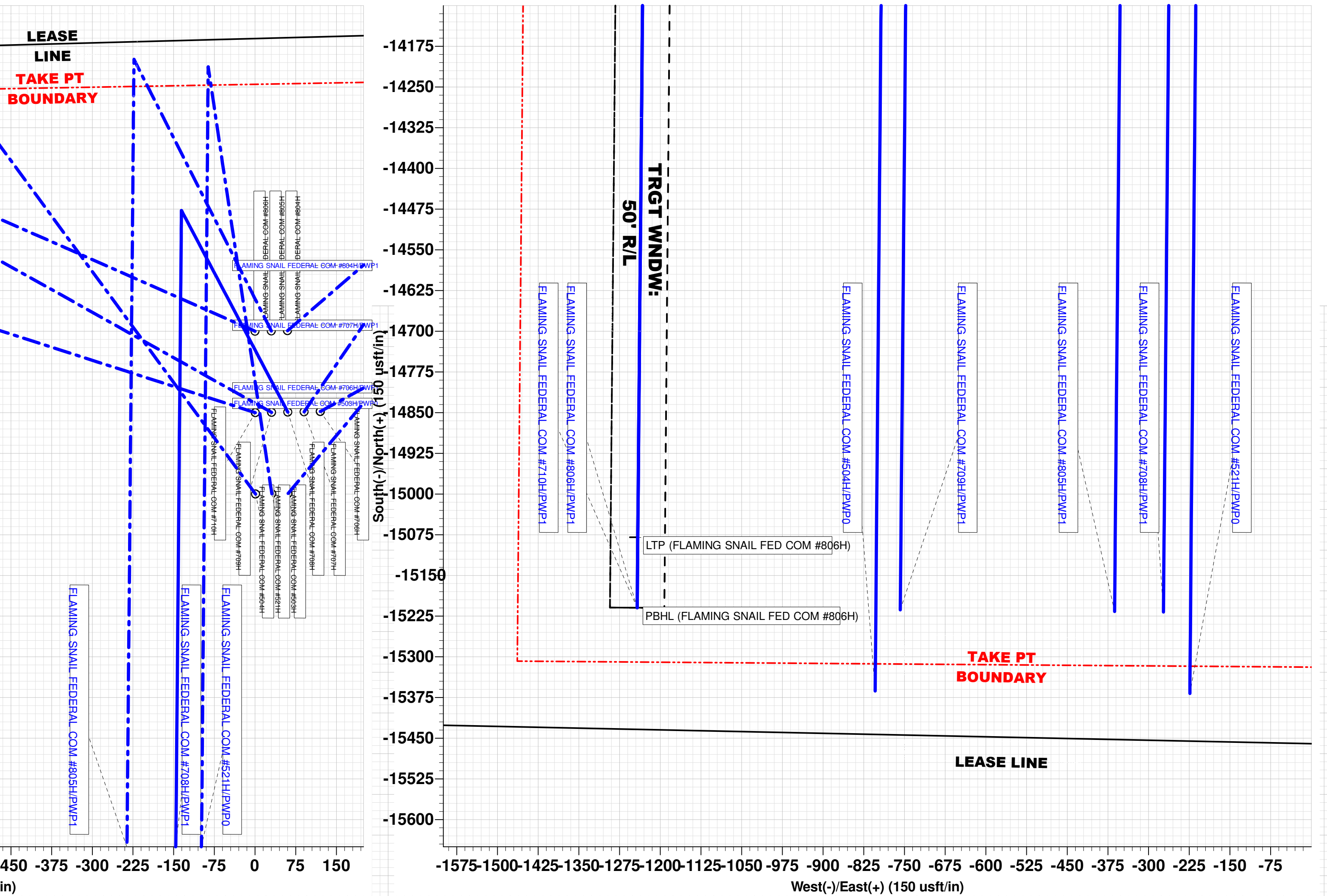
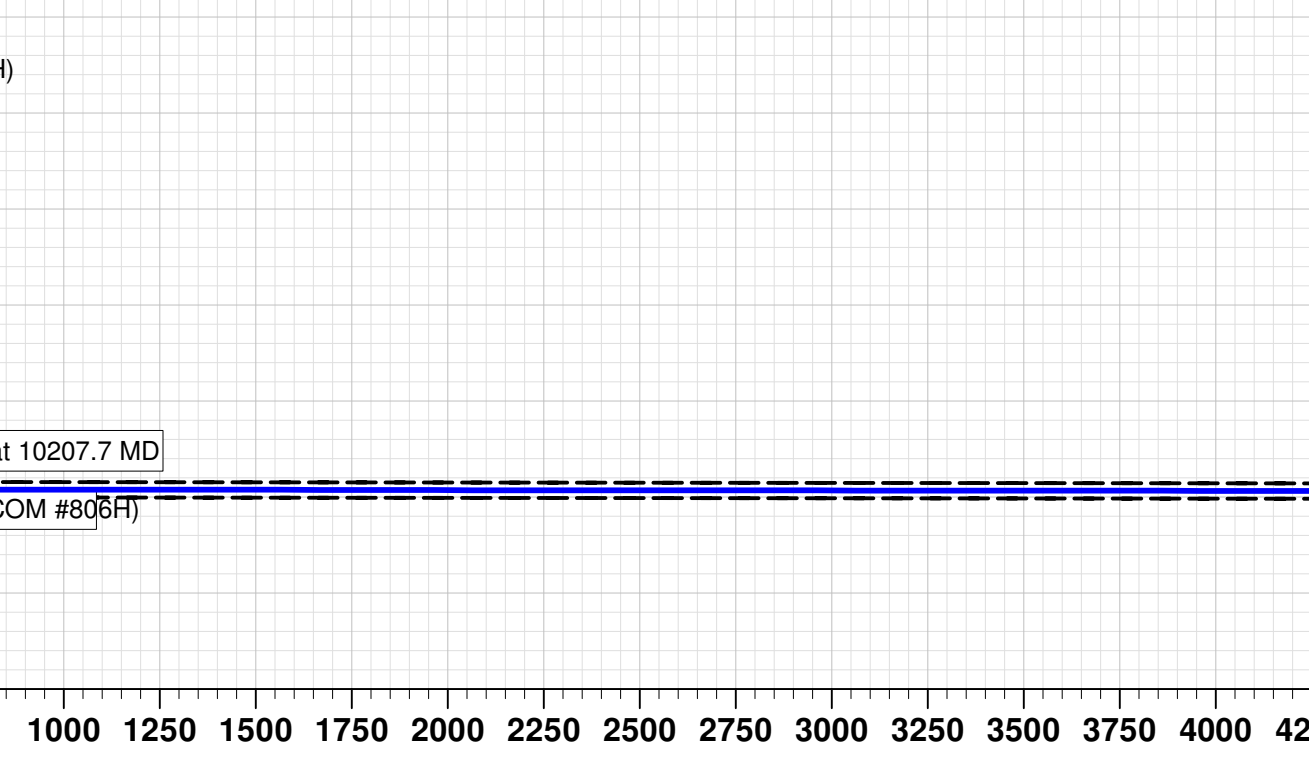
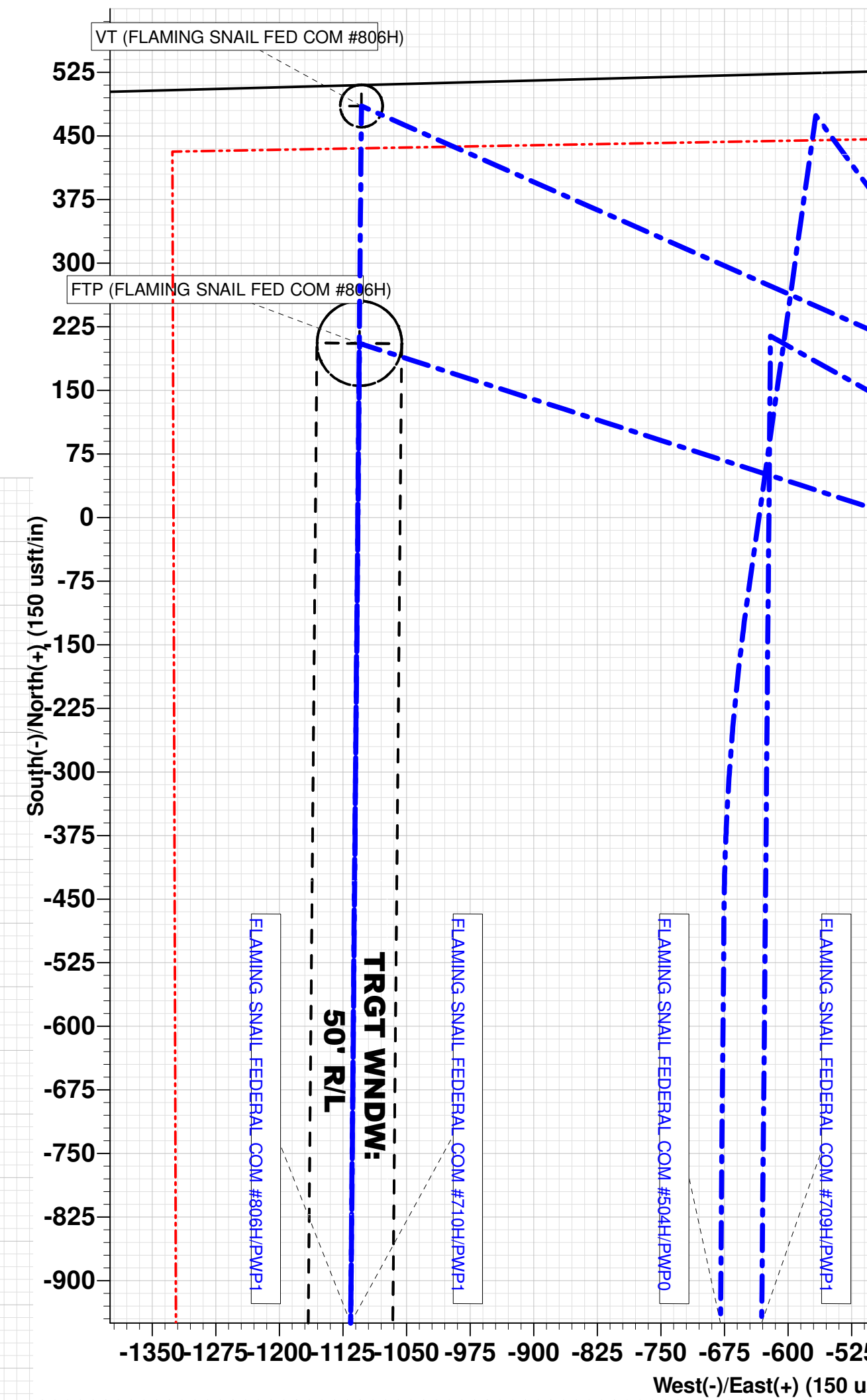
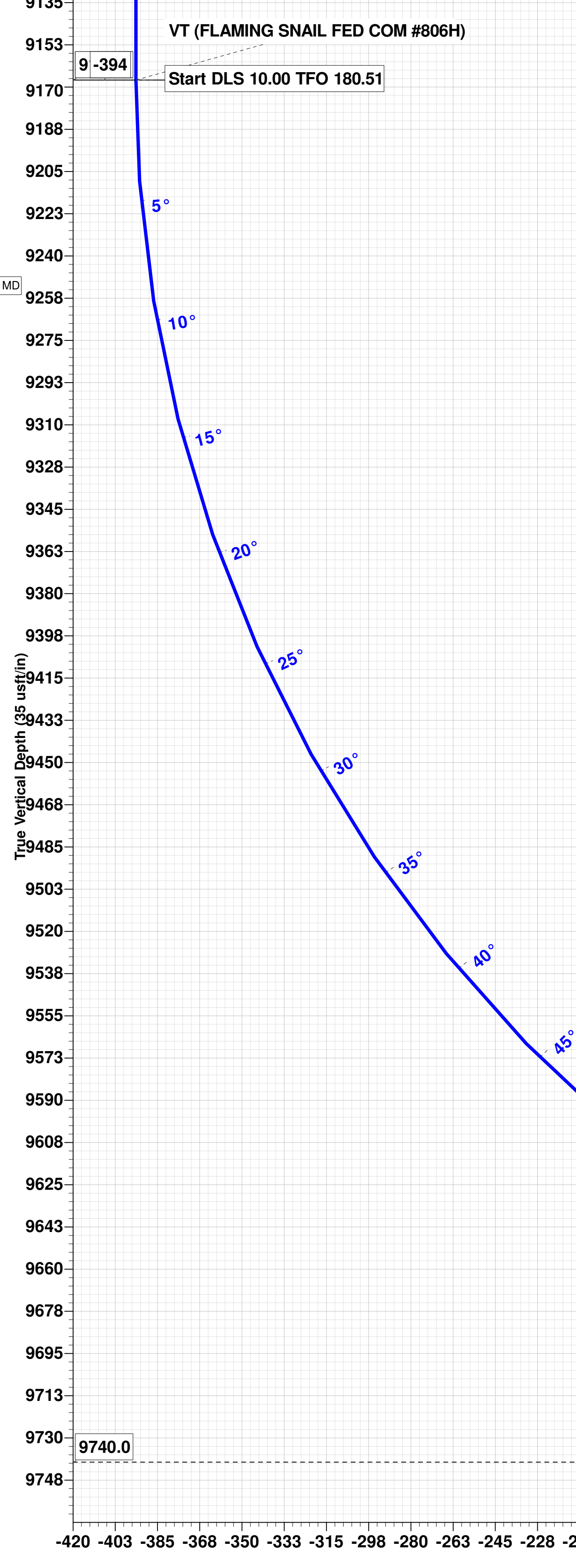
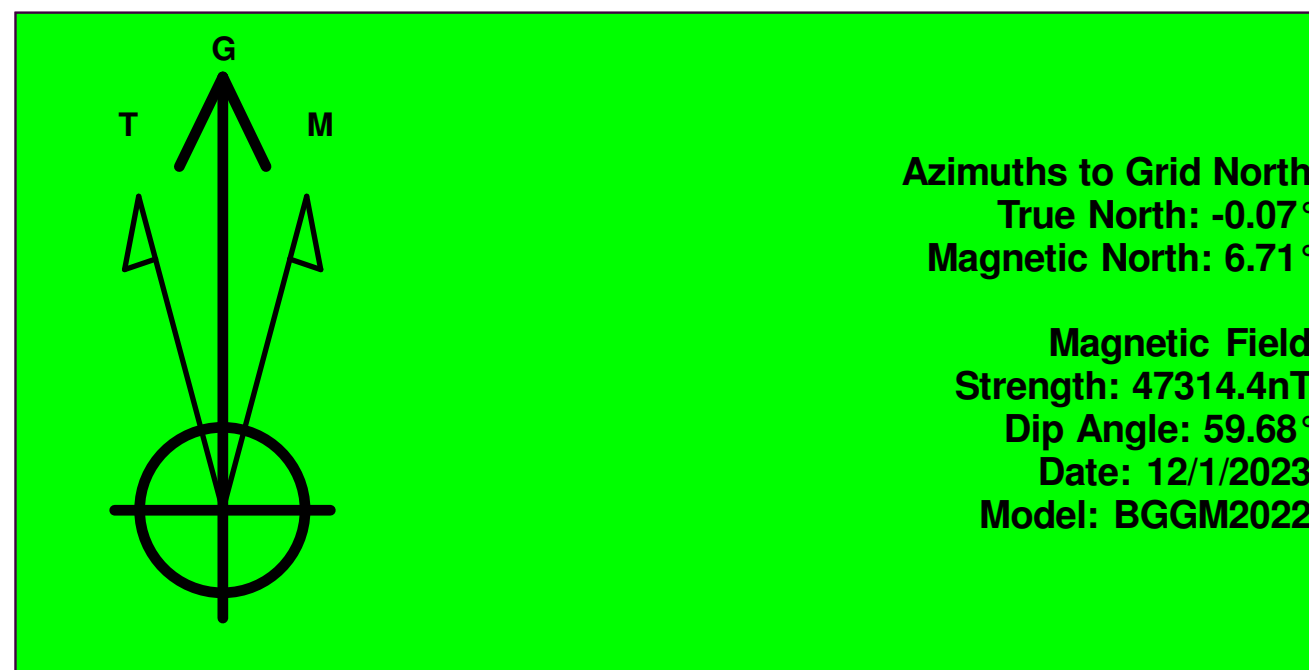
DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
VT (FLAMING SNAIL FED COM #806H)	9167.0	485.4	-1103.3	403012.90	540903.80	Circle (Radius: 25.0)
FTP (FLAMING SNAIL FED COM #806H)	9740.0	205.4	-1105.6	402732.90	540901.50	Circle (Radius: 50.0)
LTP (FLAMING SNAIL FED COM #806H)	9747.9	-15079.6	-1241.5	387447.90	540765.60	Point
PBHL (FLAMING SNAIL FED COM #806H)	9748.0	-15209.6	-1242.7	387317.90	540764.40	Rectangle (Sides: L15415.7 W100.0)

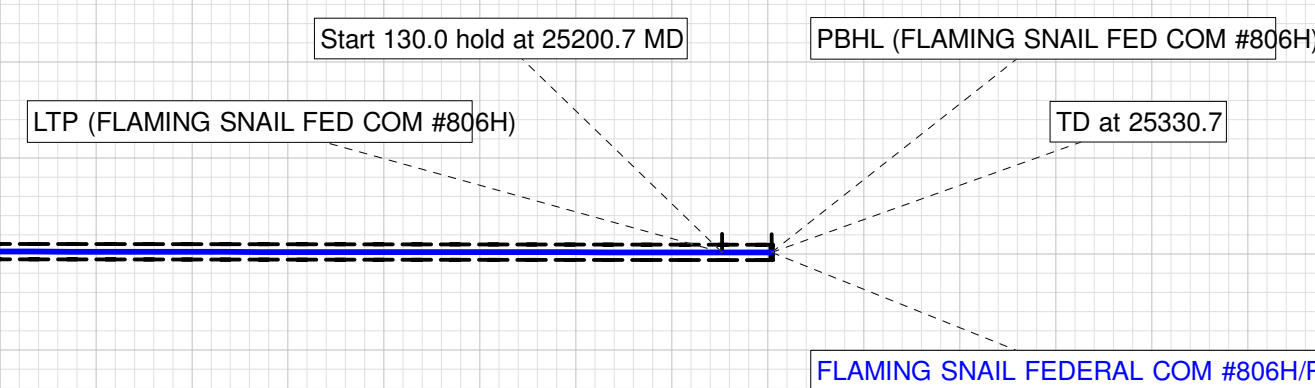
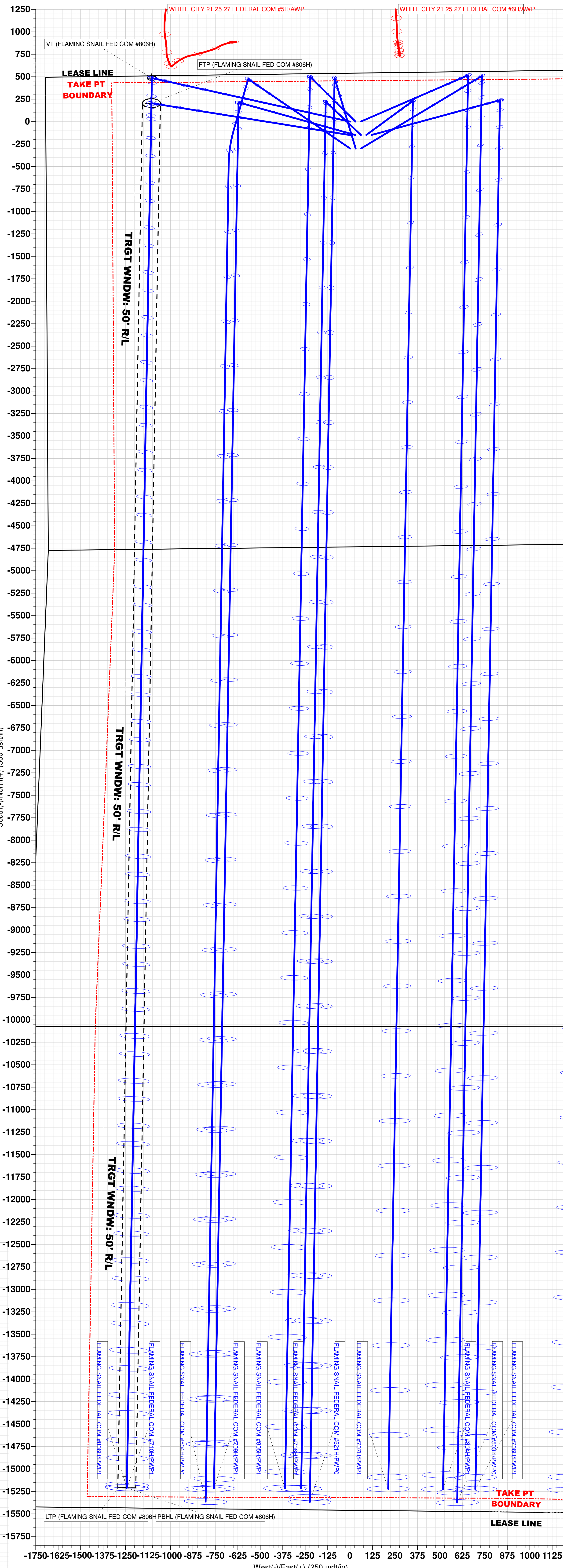


PWP1									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Departure	Annotation	
1500.0	0.00	0.00	1500.0	0.0	0.0	0.0	0.0	Start Build 2.00	
2200.0	14.00	293.75	2193.0	34.3	-77.9	-27.8	85.1	Start 4279.0 hold at 2200.0 MD	
6479.0	14.00	293.75	6345.0	451.1	-1025.4	-366.1	1120.3	Start Drop -2.00	
7179.0	0.00	0.00	7038.0	485.4	-1103.3	-393.9	1205.4	Start 2129.0 hold at 7179.0 MD	
9308.0	0.00	0.00	9167.0	485.4	-1103.3	-393.9	1205.4	Start DLS 10.00 TFO 180.51	
10207.7	89.97	180.51	9740.0	-87.2	-1108.4	177.2	1778.0	Start 14993.0 hold at 10207.7 MD	
25200.7	69.97	180.51	9747.9	-15079.6	-1241.5	15130.6	16771.0	Start 130.0 hold at 25200.7 MD	
25330.7	69.97	180.51	9748.0	-15209.6	-1242.7	15260.3	16901.0	TD at 25330.7	

TRGT WNDW:
10' A/B



TRGT WNDW:
10' A/B



PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	COG
LEASE NO.:	NMNM92167
LOCATION:	Section 28, T.25 S., R.27 E., NMPM
COUNTY:	Eddy County, New Mexico

WELL NAME & NO.:	Flaming Snail Fed Com 806H
SURFACE HOLE FOOTAGE:	557'/N & 1589'/W
BOTTOM HOLE FOOTAGE:	200'/S & 550'/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. **Excess calculates to 18%. Additional cement maybe required.**

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 260987

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 260987
	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	9/11/2023
ward.rikala	Will require a File As Drilled C-102 and a Directional Survey with the C-104	9/11/2023
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	9/11/2023
ward.rikala	Cement is required to circulate on both surface and intermediate1 strings of casing	9/11/2023
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	9/11/2023