

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

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

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

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

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

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

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

(Continued on page 2)

*(Instructions on page 2)



Approval Date: 01/11/2024

Additional Operator Remarks

Location of Well

0. SHL: NENW / 757 FNL / 1649 FWL / TWSP: 25S / RANGE: 27E / SECTION: 28 / LAT: 32.106157 / LONG: -104.19818 (TVD: 0 feet, MD: 0 feet)
PPP: NENW / 330 FNL / 1520 FWL / TWSP: 25S / RANGE: 27E / SECTION: 28 / LAT: 32.107325 / LONG: -104.198599 (TVD: 8776 feet, MD: 8853 feet)
PPP: NENW / 1 FNL / 1520 FWL / TWSP: 25S / RANGE: 27E / SECTION: 33 / LAT: 32.093671 / LONG: -104.198761 (TVD: 8953 feet, MD: 13804 feet)
PPP: SENW / 1321 FNL / 1520 FWL / TWSP: 25S / RANGE: 27E / SECTION: 33 / LAT: 32.090006 / LONG: -104.198805 (TVD: 8955 feet, MD: 15124 feet)
PPP: NENW / 1 FNL / 1520 FWL / TWSP: 26S / RANGE: 27E / SECTION: 4 / LAT: 32.079016 / LONG: -104.198935 (TVD: 8961 feet, MD: 19084 feet)
BHL: SESW / 200 FSL / 1520 FWL / TWSP: 26S / RANGE: 27E / SECTION: 4 / LAT: 32.064882 / LONG: -104.199103 (TVD: 8969 feet, MD: 24178 feet)

BLM Point of Contact

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

CONFIDENTIAL

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

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

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

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

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-		Pool Code 98220	Pool Name Purple Sage; Wolfcamp (Gas)
Property Code	Property Name FLAMING SNAIL FEDERAL COM		Well Number 708H
OGRID No. 229137	Operator Name COG OPERATING, LLC		Elevation 3153.9'

Surface Location

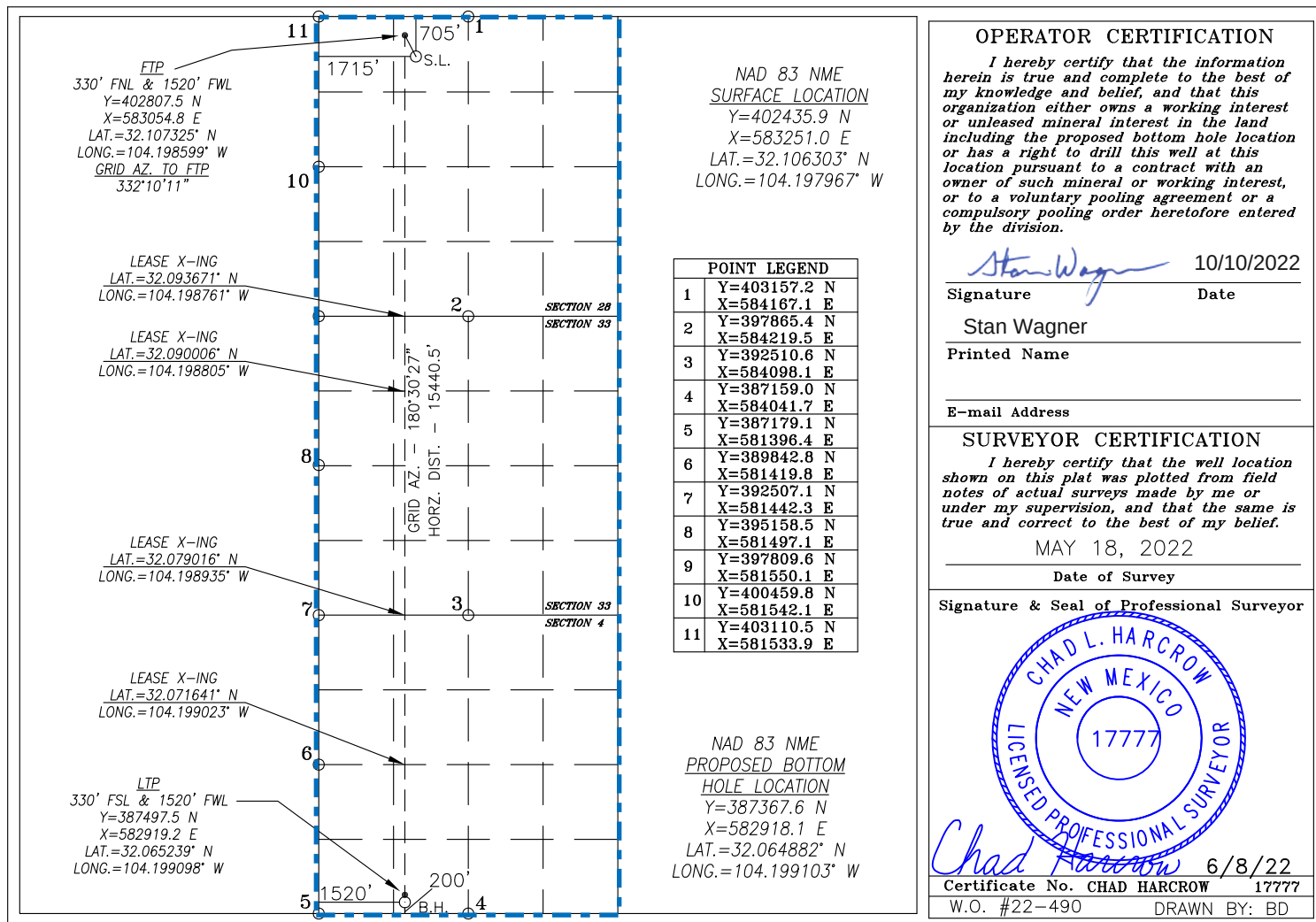
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	28	25-S	27-E		705	NORTH	1715	WEST	EDDY

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
N	4	26-S	27-E		200	SOUTH	1520	WEST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
1920	Infill	Com	

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: 10/11/2022

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 706H	30-015	C-28-25S-27E	705 FNL & 1775 FWL	± 1600	± 6830	± 5650
Flaming Snail Fed Com 707H	30-015-	C-28-25S-27E	705 FNL & 1745 FWL	± 1600	± 6830	± 5650
Flaming Snail Fed Com 708H	30-015-	C-28-25S-27E	705 FNL & 1715 FWL	± 1600	± 6830	± 5650
Flaming Snail Fed Com 709H	30-015-	C-28-25S-27E	705 FNL & 1685 FWL	± 1600	± 6830	± 5650
Flaming Snail Fed Com 710H	30-015-	C-28-25S-27E	705 FNL & 1655 FWL	± 1600	± 6830	± 5650

IV. Central Delivery Point Name: Flaming Snail Fed Com West CTB NW/4 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
701H, 702H, 703H, 704H, 705H						

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

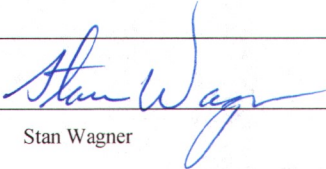
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(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:	10/06/2022
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 708H

1. Geologic Formations

TVD of target	8,969' EOL	Pilot hole depth	NA
MD at TD:	24,170'	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	546	Salt	
Base of Salt	1967	Salt	
Lamar	2141	Salt Water	
Bell Canyon	2207	Salt Water	
Cherry Canyon	2995	Oil/Gas	
Brushy Canyon	4083	Oil/Gas	
Bone Spring Lime	5688	Oil/Gas	
1st Bone Spring Sand	6619	Oil/Gas	
2nd Bone Spring Sand	7146	Oil/Gas	
3rd Bone Spring Sand	8460	Oil/Gas	
Wolfcamp	8790	Oil/Gas	
Wolfcamp A	8877	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	500	10.75"	45.5	J55	BTC	9.13	1.77	31.43	34.99
9.875"	0	5500	7.625"	29.7	HCL80	BTC	2.42	1.39	4.18	4.41
8.750"	5500	8300	7.625"	29.7	HCP110	W513	1.72	1.92	3.81	2.26
6.75"	0	7800	5.5"	23	P110	TXP BTC	2.87	3.39	4.06	4.06
6.75"	7800	24,170	5.5"	23	P110	W441	2.49	2.95	3.53	3.21
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 708H

	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 708H

3. Cementing Program

Casing	# Sk	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	238	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	570	10.3	3.3	22	24	Halliburton tunded light
	250	14.8	1.35	6.6	8	Tail: Class H
Prod	362	12.7	2	10.7	72	Lead: 50:50:10 H Blend
	1544	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	7,800'	35% OH in Lateral (KOP to EOL)

COG Operating, LLC - Flaming Snail Federal Com 708H

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 708H

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 708H

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	5830 psi at 8969' TVD
Abnormal Temperature	NO 150 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

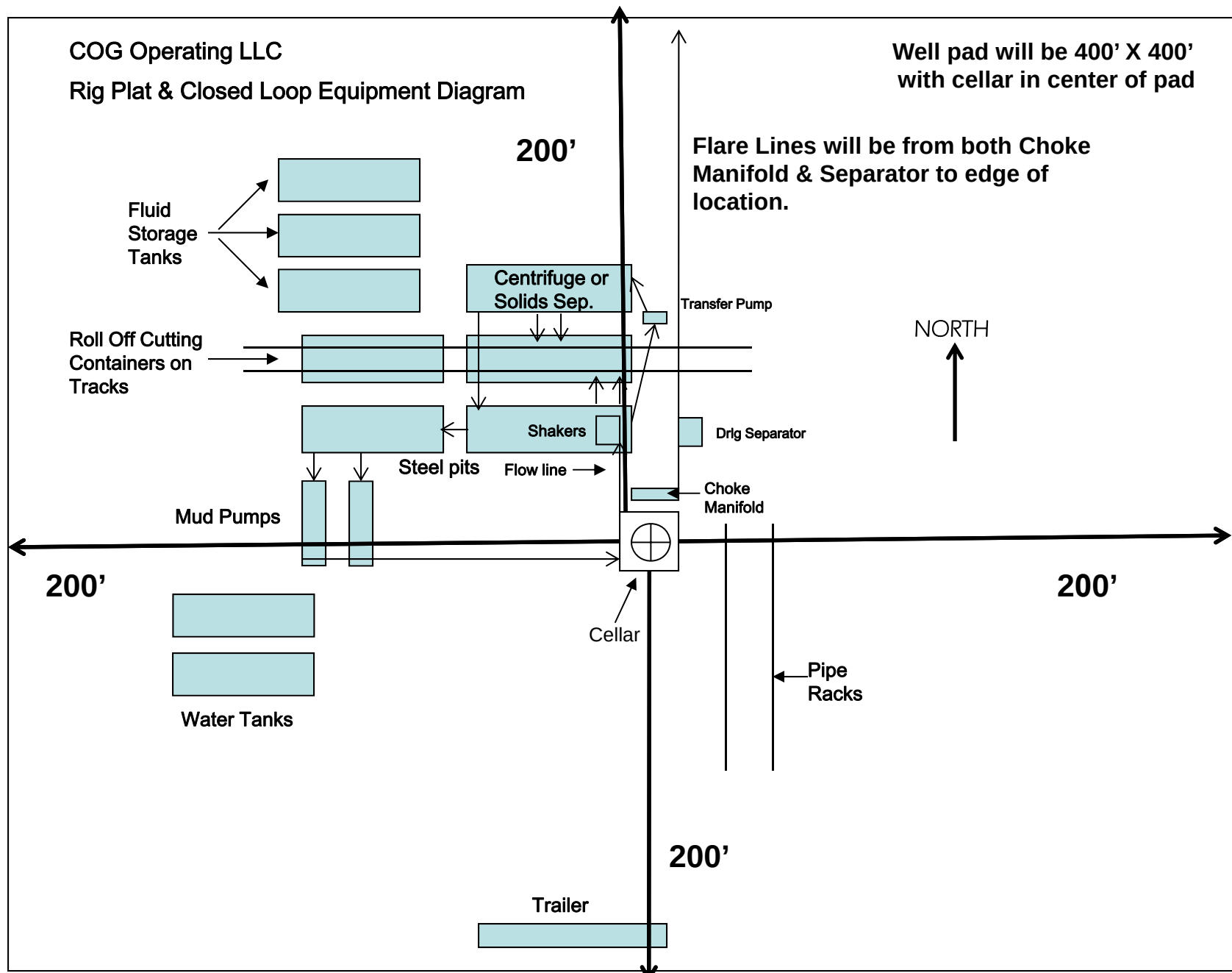


Exhibit 1

"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 #708H

OWB

PWP1

Anticollision Report

24 September, 2022

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	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	8,402.9	PWP1 (OWB)	r.5 MWD+IFR1	OWSG MWD + IFR1 rev.5
8,402.9	24,170.2	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						Out of range
COTTONWOOD HILLS 32 STATE COM #5H - OWB - AW						Out of range
FLAMING SNAIL FEDERAL COM #501H - OWB - PWP0						Out of range
FLAMING SNAIL FEDERAL COM #502H - OWB - PWP0						Out of range
FLAMING SNAIL FEDERAL COM #503H - OWB - PWP0	1,500.0	1,501.4	150.1	141.8	18.154	CC, ES
FLAMING SNAIL FEDERAL COM #503H - OWB - PWP0	1,700.0	1,701.2	156.3	147.5	17.685	SF
FLAMING SNAIL FEDERAL COM #504H - OWB - PWP0	1,500.0	1,502.3	162.4	154.2	19.846	CC, ES
FLAMING SNAIL FEDERAL COM #504H - OWB - PWP0	5,100.0	5,110.6	262.5	237.9	10.640	SF
FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0						Out of range
FLAMING SNAIL FEDERAL COM #521H - OWB - PWP0	7,875.8	8,012.2	47.0	21.8	1.867	Advise and Monitor, CC
FLAMING SNAIL FEDERAL COM #521H - OWB - PWP0	7,885.0	8,017.0	47.6	21.6	1.833	Advise and Monitor, ES, SF
FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1						Out of range
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	1,500.0	1,498.6	60.0	51.1	6.759	CC, ES
FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1	24,170.7	24,278.2	970.1	733.6	4.102	SF
FLAMING SNAIL FEDERAL COM #707H - OWB - PWP1	1,500.0	1,499.3	30.0	21.1	3.379	CC, ES
FLAMING SNAIL FEDERAL COM #707H - OWB - PWP1	24,170.7	24,197.9	485.0	249.4	2.058	SF
FLAMING SNAIL FEDERAL COM #709H - OWB - PWP1	1,437.3	1,438.0	30.0	21.2	3.421	CC
FLAMING SNAIL FEDERAL COM #709H - OWB - PWP1	1,520.0	1,520.5	30.0	21.1	3.362	ES
FLAMING SNAIL FEDERAL COM #709H - OWB - PWP1	24,170.7	24,202.5	485.0	248.8	2.053	SF
FLAMING SNAIL FEDERAL COM #710H - OWB - PWP1	1,437.1	1,438.2	60.0	51.2	6.841	CC
FLAMING SNAIL FEDERAL COM #710H - OWB - PWP1	1,520.0	1,520.7	60.1	51.1	6.719	ES
FLAMING SNAIL FEDERAL COM #710H - OWB - PWP1	24,170.7	24,228.7	970.1	732.4	4.081	SF
FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1						Out of range
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	1,898.0	1,879.0	146.1	135.1	13.242	CC
FLAMING SNAIL FEDERAL COM #804H - OWB - PWP1	1,900.0	1,880.9	146.1	135.1	13.231	ES
FLAMING SNAIL FEDERAL COM #804H - OWB - PWP1	24,170.7	25,359.2	1,136.7	894.6	4.694	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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	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 #805H - OWB - PWP1	1,947.9	1,922.9	150.6	139.1	13.082	CC, ES
FLAMING SNAIL FEDERAL COM #805H - OWB - PWP1	24,170.7	25,284.3	807.4	560.9	3.275	SF
FLAMING SNAIL FEDERAL COM #806H - OWB - PWP1	2,033.8	2,008.4	149.7	138.0	12.753	CC, ES
FLAMING SNAIL FEDERAL COM #806H - OWB - PWP1	24,170.7	25,329.6	1,246.0	1,004.2	5.153	SF
LEONARDO BKL FEDERAL COM #1 - OWB - AWP						Out of range
WHITE CITY 21 25 27 FEDERAL COM #5H - OWB - AW	4,734.2	4,647.0	865.9	829.8	23.996	CC
WHITE CITY 21 25 27 FEDERAL COM #5H - OWB - AW	4,800.0	4,714.4	866.2	829.6	23.648	ES
WHITE CITY 21 25 27 FEDERAL COM #5H - OWB - AW	7,030.0	6,958.1	945.2	899.7	20.738	SF
WHITE CITY 21 25 27 FEDERAL COM #6H - OWB - AW	7,063.6	7,003.6	654.0	613.0	15.989	CC, ES
WHITE CITY 21 25 27 FEDERAL COM #6H - OWB - AW	7,125.0	7,040.3	655.0	614.0	15.944	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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	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	24,170.7	11,975.0				Out of Range @TD
COTTONWOOD HILLS 32 STATE COM #5H - OWB - AW	24,170.7	7,034.0				Out of Range @TD
FLAMING SNAIL FEDERAL COM #501H - OWB - PWP0	24,170.7	23,269.1				Out of Range @TD
FLAMING SNAIL FEDERAL COM #502H - OWB - PWP0	24,170.7	23,196.5				Out of Range @TD
FLAMING SNAIL FEDERAL COM #503H - OWB - PWP0	24,170.7	23,165.8				Out of Range @TD
FLAMING SNAIL FEDERAL COM #504H - OWB - PWP0	24,170.7	23,086.5				Out of Range @TD
FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0	24,170.7	23,585.7				Out of Range @TD
FLAMING SNAIL FEDERAL COM #521H - OWB - PWP0	24,170.7	23,472.9	992.8	746.8	4.036	
FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1	24,170.7	24,273.1				Out of Range @TD
FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1	24,170.7	24,263.9				Out of Range @TD
FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1	24,170.7	24,302.1				Out of Range @TD
FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1	24,170.7	24,336.1				Out of Range @TD
FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1	24,170.7	24,278.2	970.1	733.6	4.102	SF
FLAMING SNAIL FEDERAL COM #707H - OWB - PWP1	24,170.7	24,197.9	485.0	249.4	2.058	SF
FLAMING SNAIL FEDERAL COM #709H - OWB - PWP1	24,170.7	24,202.5	485.0	248.8	2.053	SF
FLAMING SNAIL FEDERAL COM #710H - OWB - PWP1	24,170.7	24,228.7	970.1	732.4	4.081	SF
FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1	24,170.7	25,454.3				Out of Range @TD
FLAMING SNAIL FEDERAL COM #802H - OWB - PWP1	24,170.7	25,370.8				Out of Range @TD
FLAMING SNAIL FEDERAL COM #803H - OWB - PWP1	24,170.7	25,416.7				Out of Range @TD
FLAMING SNAIL FEDERAL COM #804H - OWB - PWP1	24,170.7	25,359.2	1,136.7	894.6	4.694	SF
FLAMING SNAIL FEDERAL COM #805H - OWB - PWP1	24,170.7	25,284.3	807.4	560.9	3.275	SF
FLAMING SNAIL FEDERAL COM #806H - OWB - PWP1	24,170.7	25,329.6	1,246.0	1,004.2	5.153	SF
LEONARDO BKL FEDERAL COM #1 - OWB - AWP	24,170.7	8,918.8				Out of Range @TD
WHITE CITY 21 25 27 FEDERAL COM #5H - OWB - AW	24,170.7	6,985.0				Out of Range @TD
WHITE CITY 21 25 27 FEDERAL COM #6H - OWB - AW	24,170.7	7,054.0				Out of Range @TD

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		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)	Minimum Separation (usft)	Separation Factor	
0.0	0.0	1.4	1.4	3.0	3.0	179.81	-150.1	0.5	150.1				
95.0	95.0	96.4	96.4	3.0	3.0	179.81	-150.1	0.5	150.1	144.1	6.02	24.942	
100.0	100.0	101.4	101.4	3.0	3.0	179.81	-150.1	0.5	150.1	144.1	6.02	24.929	
190.0	190.0	191.4	191.4	3.1	3.0	179.81	-150.1	0.5	150.1	144.0	6.13	24.471	
200.0	200.0	201.4	201.4	3.1	3.0	179.81	-150.1	0.5	150.1	143.9	6.15	24.398	
285.0	285.0	286.4	286.4	3.3	3.0	179.81	-150.1	0.5	150.1	143.8	6.26	23.959	

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #503H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7106-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
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
300.0	300.0	301.4	301.4	3.3	3.0	179.81	-150.1	0.5	150.1	143.8	6.29	23.872	
380.0	380.0	381.4	381.4	3.4	3.0	179.81	-150.1	0.5	150.1	143.7	6.40	23.460	
400.0	400.0	401.4	401.4	3.4	3.0	179.81	-150.1	0.5	150.1	143.7	6.43	23.350	
475.0	475.0	476.4	476.4	3.5	3.0	179.81	-150.1	0.5	150.1	143.6	6.54	22.967	
500.0	500.0	501.4	501.4	3.5	3.1	179.81	-150.1	0.5	150.1	143.5	6.57	22.834	
570.0	570.0	571.4	571.4	3.6	3.1	179.81	-150.1	0.5	150.1	143.4	6.68	22.480	
600.0	600.0	601.4	601.4	3.6	3.1	179.81	-150.1	0.5	150.1	143.4	6.72	22.324	
665.0	665.0	666.4	666.4	3.7	3.1	179.81	-150.1	0.5	150.1	143.3	6.82	22.000	
700.0	700.0	701.4	701.4	3.8	3.1	179.81	-150.1	0.5	150.1	143.2	6.88	21.822	
760.0	760.0	761.4	761.4	3.8	3.1	179.81	-150.1	0.5	150.1	143.1	6.97	21.527	
800.0	800.0	801.4	801.4	3.9	3.2	179.81	-150.1	0.5	150.1	143.1	7.04	21.328	
855.0	855.0	856.4	856.4	4.0	3.2	179.81	-150.1	0.5	150.1	143.0	7.13	21.062	
900.0	900.0	901.4	901.4	4.0	3.2	179.81	-150.1	0.5	150.1	142.9	7.20	20.843	
950.0	950.0	951.4	951.4	4.1	3.2	179.81	-150.1	0.5	150.1	142.8	7.28	20.606	
1,000.0	1,000.0	1,001.4	1,001.4	4.1	3.2	179.81	-150.1	0.5	150.1	142.7	7.37	20.367	
1,045.0	1,045.0	1,046.4	1,046.4	4.2	3.3	179.81	-150.1	0.5	150.1	142.7	7.45	20.158	
1,100.0	1,100.0	1,101.4	1,101.4	4.2	3.3	179.81	-150.1	0.5	150.1	142.6	7.54	19.903	
1,140.0	1,140.0	1,141.4	1,141.4	4.3	3.3	179.81	-150.1	0.5	150.1	142.5	7.61	19.721	
1,200.0	1,200.0	1,201.4	1,201.4	4.4	3.4	179.81	-150.1	0.5	150.1	142.4	7.72	19.448	
1,235.0	1,235.0	1,236.4	1,236.4	4.4	3.4	179.81	-150.1	0.5	150.1	142.3	7.78	19.293	
1,300.0	1,300.0	1,301.4	1,301.4	4.5	3.4	179.81	-150.1	0.5	150.1	142.2	7.90	19.005	
1,330.0	1,330.0	1,331.4	1,331.4	4.5	3.4	179.81	-150.1	0.5	150.1	142.1	7.95	18.875	
1,400.0	1,400.0	1,401.4	1,401.4	4.6	3.5	179.81	-150.1	0.5	150.1	142.0	8.08	18.574	
1,425.0	1,425.0	1,426.4	1,426.4	4.6	3.5	179.81	-150.1	0.5	150.1	142.0	8.13	18.468	
1,500.0	1,500.0	1,501.4	1,501.4	4.7	3.5	179.81	-150.1	0.5	150.1	141.8	8.27	18.154 CC, ES	
1,520.0	1,520.0	1,521.4	1,521.4	4.8	3.6	-152.37	-150.1	0.5	150.2	141.8	8.32	18.053	
1,600.0	1,600.0	1,601.4	1,601.4	4.9	3.6	-152.65	-150.1	0.5	151.6	143.1	8.52	17.800	
1,615.0	1,615.0	1,616.4	1,616.4	4.9	3.6	-152.75	-150.1	0.5	152.1	143.6	8.57	17.761	
1,700.0	1,699.8	1,701.2	1,701.2	5.2	3.7	-153.49	-150.1	0.5	156.3	147.5	8.84	17.685 SF	
1,710.0	1,709.8	1,711.2	1,711.2	5.2	3.7	-153.60	-150.1	0.5	157.0	148.1	8.87	17.691	
1,800.0	1,799.5	1,800.9	1,800.9	5.4	3.8	-154.78	-150.1	0.5	164.2	155.0	9.18	17.887	
1,805.0	1,804.4	1,805.8	1,805.8	5.4	3.8	-154.86	-150.1	0.5	164.6	155.4	9.20	17.905	
1,900.0	1,898.7	1,900.1	1,900.1	5.7	3.9	-156.39	-150.1	0.5	175.3	165.7	9.54	18.374	
1,925.1	1,923.5	1,924.9	1,924.9	5.8	3.9	-156.83	-150.1	0.5	178.6	169.0	9.59	18.616	
1,995.0	1,992.7	1,994.1	1,994.1	5.9	3.9	-158.06	-150.1	0.5	188.1	178.4	9.79	19.227	
2,000.0	1,997.6	1,999.0	1,999.0	5.9	3.9	-158.15	-150.1	0.5	188.8	179.0	9.80	19.270	
2,090.0	2,086.6	2,092.4	2,092.4	6.1	4.1	-159.93	-149.0	1.5	200.3	190.1	10.19	19.651	
2,100.0	2,096.5	2,102.8	2,102.8	6.2	4.1	-160.16	-148.7	1.7	201.5	191.2	10.24	19.679	
2,185.0	2,180.6	2,191.2	2,191.0	6.4	4.4	-162.29	-145.2	4.6	210.5	199.9	10.67	19.730	
2,200.0	2,195.4	2,206.8	2,206.6	6.4	4.4	-162.71	-144.4	5.3	212.0	201.2	10.75	19.725	
2,280.0	2,274.5	2,289.9	2,289.4	6.7	4.7	-165.12	-138.8	9.9	219.1	207.9	11.16	19.629	
2,300.0	2,294.3	2,310.6	2,310.0	6.7	4.7	-165.77	-137.2	11.3	220.7	209.4	11.26	19.593	
2,375.0	2,368.5	2,388.3	2,387.1	7.0	5.0	-168.41	-129.9	17.3	226.2	214.6	11.65	19.418	
2,400.0	2,393.2	2,414.1	2,412.7	7.0	5.1	-169.36	-127.1	19.6	227.9	216.1	11.78	19.353	
2,470.0	2,462.5	2,486.2	2,483.8	7.3	5.3	-172.18	-118.5	26.8	232.4	220.2	12.13	19.156	
2,500.0	2,492.1	2,516.9	2,514.1	7.4	5.4	-173.46	-114.4	30.3	234.2	221.9	12.28	19.073	
2,565.0	2,556.4	2,583.3	2,579.3	7.6	5.7	-176.40	-104.6	38.4	238.0	225.4	12.59	18.901	
2,600.0	2,591.0	2,618.8	2,614.0	7.7	5.8	-178.07	-98.9	43.1	240.0	227.2	12.75	18.822	
2,660.0	2,650.4	2,679.4	2,673.1	7.9	6.1	-178.93	-88.5	51.8	243.5	230.5	13.02	18.710	
2,700.0	2,689.9	2,719.6	2,712.0	8.1	6.2	-176.85	-81.0	58.0	246.0	232.9	13.16	18.695	
2,755.0	2,744.3	2,773.2	2,763.9	8.2	6.3	-174.03	-70.7	66.6	249.8	236.5	13.35	18.715	

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	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		Rule Assigned:								
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	
2,800.0	2,788.8	2,816.9	2,806.3	8.4	6.5	171.80	-62.3	73.6	253.4	239.9	13.51	18.757		
2,850.0	2,838.3	2,865.5	2,853.3	8.6	6.7	169.39	-52.9	81.4	257.8	244.1	13.70	18.821		
2,900.0	2,887.7	2,914.1	2,900.3	8.8	6.8	167.06	-43.6	89.2	262.7	248.8	13.88	18.921		
2,945.0	2,932.2	2,957.8	2,942.7	8.9	7.0	165.03	-35.2	96.2	267.4	253.4	14.05	19.037		
3,000.0	2,986.6	3,011.2	2,994.4	9.1	7.2	162.65	-24.9	104.8	273.7	259.4	14.25	19.209		
3,040.0	3,026.2	3,050.1	3,032.0	9.3	7.3	160.99	-17.4	111.0	278.5	264.1	14.39	19.350		
3,100.0	3,085.5	3,108.4	3,088.5	9.5	7.6	158.60	-6.2	120.3	286.2	271.6	14.61	19.587		
3,135.0	3,120.1	3,142.4	3,121.4	9.6	7.7	157.26	0.3	125.8	290.9	276.2	14.74	19.735		
3,200.0	3,184.4	3,205.5	3,182.5	9.9	7.9	154.89	12.5	135.9	300.1	285.1	14.99	20.027		
3,230.0	3,214.1	3,234.7	3,210.7	10.0	8.1	153.84	18.1	140.6	304.5	289.4	15.10	20.167		
3,300.0	3,283.3	3,302.7	3,276.6	10.3	8.3	151.51	31.2	151.5	315.2	299.8	15.37	20.505		
3,325.0	3,308.1	3,327.0	3,300.1	10.4	8.4	150.71	35.9	155.4	319.1	303.6	15.47	20.629		
3,400.0	3,382.2	3,399.9	3,370.6	10.7	8.7	148.43	49.9	167.0	331.2	315.5	15.77	21.004		
3,420.0	3,402.0	3,419.3	3,389.5	10.7	8.8	147.85	53.6	170.2	334.6	318.7	15.85	21.105		
3,500.0	3,481.1	3,497.0	3,464.7	11.1	9.2	145.65	68.6	182.6	348.2	332.0	16.19	21.511		
3,515.0	3,496.0	3,511.6	3,478.8	11.1	9.2	145.25	71.4	184.9	350.8	334.5	16.25	21.587		
3,600.0	3,580.0	3,594.2	3,558.8	11.5	9.6	143.11	87.3	198.2	365.9	349.3	16.62	22.016		
3,610.0	3,589.9	3,603.9	3,568.2	11.5	9.6	142.87	89.2	199.7	367.7	351.0	16.66	22.066		
3,700.0	3,678.9	3,691.3	3,652.8	11.9	10.0	140.81	106.0	213.8	384.2	367.1	17.07	22.512		
3,705.0	3,683.9	3,696.2	3,657.5	11.9	10.0	140.70	106.9	214.5	385.1	368.0	17.09	22.537		
3,800.0	3,777.8	3,788.5	3,746.9	12.3	10.4	138.72	124.7	229.3	403.1	385.6	17.53	22.996		
3,895.0	3,871.8	3,880.8	3,836.3	12.6	10.8	136.91	142.4	244.1	421.5	403.5	17.98	23.442		
3,900.0	3,876.7	3,885.7	3,841.0	12.7	10.9	136.82	143.4	244.9	422.4	404.4	18.00	23.465		
3,990.0	3,965.8	3,973.1	3,925.6	13.0	11.3	135.24	160.2	258.9	440.2	421.8	18.44	23.873		
4,000.0	3,975.6	3,982.8	3,935.0	13.1	11.3	135.07	162.1	260.5	442.2	423.7	18.49	23.917		
4,085.0	4,059.7	4,065.4	4,015.0	13.4	11.7	133.71	178.0	273.7	459.3	440.4	18.91	24.288		
4,100.0	4,074.5	4,080.0	4,029.1	13.5	11.7	133.48	180.8	276.0	462.4	443.4	18.99	24.352		
4,127.7	4,101.9	4,106.9	4,055.1	13.6	11.9	133.07	186.0	280.3	468.0	448.9	19.11	24.487		
4,180.0	4,153.7	4,157.7	4,104.4	13.8	12.1	132.36	195.7	288.5	478.6	459.2	19.36	24.715		
4,200.0	4,173.5	4,177.2	4,123.2	13.9	12.2	132.09	199.5	291.6	482.6	463.1	19.46	24.796		
4,275.0	4,247.9	4,250.1	4,193.8	14.2	12.5	131.06	213.5	303.3	497.2	477.3	19.84	25.064		
4,300.0	4,272.7	4,274.4	4,217.3	14.3	12.6	130.72	218.2	307.2	501.9	482.0	19.96	25.145		
4,370.0	4,342.3	4,342.5	4,283.2	14.5	13.0	129.73	231.3	318.1	515.1	494.8	20.31	25.359		
4,400.0	4,372.1	4,371.7	4,311.5	14.6	13.1	129.30	236.9	322.8	520.6	500.1	20.46	25.442		
4,465.0	4,436.8	4,434.9	4,372.7	14.9	13.4	128.36	249.1	332.9	532.3	511.5	20.78	25.613		
4,500.0	4,471.7	4,469.0	4,405.7	15.0	13.5	127.85	255.6	338.4	538.5	517.6	20.96	25.696		
4,560.0	4,531.5	4,527.3	4,462.2	15.2	13.8	126.96	266.9	347.7	549.0	527.7	21.25	25.831		
4,600.0	4,571.4	4,566.2	4,499.8	15.4	14.0	126.36	274.3	354.0	555.8	534.4	21.45	25.912		
4,655.0	4,626.3	4,619.7	4,551.6	15.6	14.2	125.52	284.6	362.5	565.1	543.4	21.72	26.019		
4,700.0	4,671.2	4,663.4	4,593.9	15.7	14.4	124.82	293.1	369.5	572.6	550.6	21.94	26.097		
4,750.0	4,721.2	4,712.0	4,641.0	15.9	14.7	124.04	302.4	377.3	580.8	558.6	22.18	26.183		
4,800.0	4,771.1	4,760.5	4,688.0	16.0	14.9	123.24	311.7	385.1	588.8	566.4	22.42	26.258		
4,845.0	4,816.1	4,804.2	4,730.2	16.2	15.1	122.52	320.1	392.1	596.0	573.4	22.64	26.328		
4,900.0	4,871.1	4,857.5	4,781.9	16.3	15.4	121.62	330.4	400.6	604.7	581.8	22.90	26.403		
4,940.0	4,911.1	4,896.3	4,819.4	16.4	15.5	120.96	337.9	406.9	611.0	587.9	23.07	26.482		
4,977.9	4,949.0	4,933.0	4,854.9	16.4	15.7	120.50	344.9	412.7	616.8	593.6	23.23	26.551		
5,000.0	4,971.1	4,954.4	4,875.6	16.4	15.8	120.10	349.0	416.2	620.3	597.0	23.31	26.606		
5,035.0	5,006.1	4,988.3	4,908.4	16.5	16.0	119.48	355.6	421.6	625.8	602.3	23.46	26.672		
5,100.0	5,071.1	5,051.2	4,969.4	16.5	16.3	118.35	367.7	431.7	636.2	612.5	23.75	26.791		
5,130.0	5,101.1	5,080.2	4,997.5	16.5	16.4	117.84	373.3	436.3	641.1	617.2	23.88	26.845		
5,200.0	5,171.1	5,148.0	5,063.1	16.6	16.7	117.68	386.3	447.2	652.7	628.5	24.20	26.966		

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #503H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7106-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
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)			
5,225.0	5,196.1	5,172.2	5,086.5	16.6	16.9	88.28	391.0	451.1	656.9	632.6	24.32	27.008	
5,300.0	5,271.1	5,244.8	5,156.8	16.6	17.2	87.09	404.9	462.7	669.7	645.0	24.68	27.132	
5,320.0	5,291.1	5,264.2	5,175.6	16.6	17.3	86.79	408.7	465.8	673.2	648.4	24.78	27.164	
5,400.0	5,371.1	5,341.6	5,250.6	16.7	17.7	85.58	423.6	478.2	687.2	662.1	25.18	27.289	
5,415.0	5,386.1	5,356.2	5,264.6	16.7	17.7	85.36	426.4	480.5	689.9	664.6	25.26	27.312	
5,500.0	5,471.1	5,438.5	5,344.3	16.7	18.1	84.15	442.2	493.7	705.2	679.5	25.70	27.438	
5,510.0	5,481.1	5,448.1	5,353.7	16.7	18.2	84.01	444.1	495.3	707.0	681.3	25.75	27.453	
5,600.0	5,571.1	5,535.3	5,438.0	16.8	18.6	82.78	460.8	509.2	723.6	697.4	26.24	27.581	
5,605.0	5,576.1	5,540.1	5,442.7	16.8	18.6	82.72	461.8	510.0	724.5	698.3	26.26	27.588	
5,700.0	5,671.1	5,632.1	5,531.7	16.8	19.1	81.48	479.5	524.8	742.4	715.6	26.78	27.718	
5,795.0	5,766.1	5,724.1	5,620.8	16.9	19.5	80.31	497.2	539.5	760.6	733.2	27.32	27.843	
5,800.0	5,771.1	5,728.9	5,625.5	16.9	19.5	80.25	498.1	540.3	761.5	734.2	27.34	27.850	
5,890.0	5,861.1	5,816.0	5,709.8	17.0	19.9	79.18	514.9	554.2	779.0	751.2	27.86	27.964	
5,900.0	5,871.1	5,825.7	5,719.2	17.0	20.0	79.07	516.7	555.8	781.0	753.1	27.92	27.977	
5,985.0	5,956.1	5,908.0	5,798.9	17.0	20.4	78.11	532.6	569.0	797.8	769.4	28.41	28.082	
6,000.0	5,971.1	5,922.5	5,812.9	17.0	20.5	77.95	535.4	571.3	800.8	772.3	28.50	28.101	
6,080.0	6,051.1	6,000.0	5,887.9	17.1	20.8	77.09	550.3	583.7	816.8	787.8	28.97	28.197	
6,100.0	6,071.1	6,019.3	5,906.7	17.1	20.9	76.88	554.0	586.8	820.8	791.8	29.09	28.221	
6,175.0	6,146.1	6,091.9	5,976.9	17.1	21.3	76.11	568.0	598.5	836.1	806.5	29.53	28.309	
6,200.0	6,171.1	6,116.2	6,000.4	17.1	21.4	75.86	572.6	602.3	841.2	811.5	29.68	28.339	
6,270.0	6,241.1	6,183.9	6,066.0	17.2	21.7	75.18	585.7	613.2	855.6	825.5	30.10	28.422	
6,300.0	6,271.1	6,219.3	6,100.3	17.2	21.9	74.83	592.4	618.8	861.7	831.4	30.31	28.425	
6,365.0	6,336.1	6,303.8	6,182.6	17.2	22.3	74.10	607.2	631.1	874.0	843.1	30.81	28.366	
6,400.0	6,371.1	6,349.8	6,227.6	17.3	22.5	73.75	614.4	637.1	879.9	848.9	31.06	28.328	
6,460.0	6,431.1	6,429.3	6,305.8	17.3	22.9	73.22	625.6	646.5	889.2	857.7	31.48	28.246	
6,500.0	6,471.1	6,482.8	6,358.5	17.3	23.2	72.91	632.2	652.0	894.6	862.8	31.74	28.183	
6,555.0	6,526.1	6,556.8	6,431.8	17.3	23.5	72.55	640.1	658.6	901.0	868.9	32.08	28.089	
6,600.0	6,571.1	6,617.7	6,492.3	17.4	23.8	72.31	645.6	663.1	905.4	873.0	32.34	27.998	
6,650.0	6,621.1	6,685.6	6,559.9	17.4	24.0	72.09	650.4	667.1	909.3	876.7	32.59	27.902	
6,700.0	6,671.1	6,753.9	6,628.0	17.4	24.3	71.93	654.1	670.2	912.3	879.4	32.81	27.800	
6,745.0	6,716.1	6,815.5	6,689.5	17.5	24.5	71.84	656.3	672.0	914.0	881.1	32.99	27.707	
6,800.0	6,771.1	6,890.9	6,764.9	17.5	24.7	71.78	657.6	673.1	915.1	882.0	33.15	27.604	
6,840.0	6,811.1	6,938.5	6,812.5	17.5	24.8	71.78	657.7	673.2	915.2	882.0	33.20	27.565	
6,900.0	6,871.1	6,998.5	6,872.5	17.6	24.8	71.78	657.7	673.2	915.2	881.9	33.28	27.504	
6,935.0	6,906.1	7,033.5	6,907.5	17.6	24.8	71.78	657.7	673.2	915.2	881.9	33.32	27.466	
7,000.0	6,971.1	7,098.5	6,972.5	17.6	24.8	71.78	657.7	673.2	915.2	881.8	33.41	27.396	
7,030.0	7,001.1	7,152.0	7,026.0	17.6	24.9	71.89	655.9	673.2	914.9	881.6	33.31	27.467	
7,100.0	7,071.1	7,289.3	7,160.2	17.7	25.0	73.52	628.7	672.9	910.5	877.7	32.80	27.759	
7,125.0	7,096.1	7,334.2	7,202.2	17.7	25.0	74.48	612.9	672.8	907.9	875.3	32.59	27.856	
7,200.0	7,171.1	7,451.8	7,305.2	17.7	25.1	77.97	556.5	672.3	897.8	865.7	32.02	28.036	
7,220.0	7,191.1	7,478.7	7,327.0	17.7	25.1	78.97	540.7	672.2	894.8	862.9	31.90	28.050	
7,300.0	7,271.1	7,569.3	7,394.5	17.8	25.2	82.85	480.4	671.7	883.0	851.5	31.55	27.986	
7,315.0	7,286.1	7,583.6	7,404.2	17.8	25.2	83.53	469.9	671.6	881.0	849.5	31.51	27.959	
7,400.0	7,371.1	7,651.7	7,446.9	17.9	25.2	87.00	416.9	671.1	871.6	840.2	31.37	27.782	
7,410.0	7,381.1	7,658.5	7,450.8	17.9	25.2	87.37	411.4	671.1	870.8	839.4	31.36	27.762	
7,500.0	7,471.1	7,710.5	7,478.5	17.9	25.3	90.27	367.4	670.7	866.8	835.5	31.34	27.654	
7,505.0	7,476.1	7,713.0	7,479.7	17.9	25.3	90.42	365.2	670.7	866.8	835.4	31.35	27.653	
7,507.8	7,478.9	7,714.4	7,480.4	17.9	25.3	90.50	364.0	670.7	866.8	835.4	31.35	27.653	
7,600.0	7,571.1	7,753.7	7,498.3	18.0	25.3	92.81	329.0	670.4	870.7	839.3	31.36	27.759	
7,695.0	7,666.1	7,785.0	7,510.9	18.0	25.3	94.69	300.4	670.1	883.1	851.7	31.38	28.144	
7,700.0	7,671.1	7,786.4	7,511.4	18.0	25.3	94.78	299.0	670.1	884.0	852.6	31.38	28.172	

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	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		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				
7,790.0	7,761.1	7,809.6	7,519.7	18.1	25.3	96.21	277.3	669.9	904.3	873.0	31.37	28.828					
7,800.0	7,771.1	7,811.9	7,520.4	18.1	25.3	96.35	275.2	669.9	907.1	875.7	31.37	28.918					
7,885.0	7,856.1	7,829.5	7,526.0	18.2	25.3	97.44	258.5	669.7	934.0	902.7	31.34	29.804					
7,900.0	7,871.1	7,832.3	7,526.9	18.2	25.3	97.61	255.9	669.7	939.4	908.1	31.33	29.984					
7,980.0	7,951.1	7,850.0	7,531.9	18.2	25.4	98.71	238.9	669.6	971.5	940.3	31.26	31.079					
8,000.0	7,971.1	7,850.0	7,531.9	18.2	25.4	98.71	238.9	669.6	980.4	949.1	31.27	31.348					
8,075.0	8,046.1	7,850.0	7,531.9	18.3	25.4	98.71	238.9	669.6	1,016.3	985.0	31.31	32.458					
8,100.0	8,071.1	7,862.6	7,535.2	18.3	25.4	99.50	226.7	669.5	1,029.0	997.8	31.24	32.944					
8,170.0	8,141.1	7,870.9	7,537.2	18.3	25.4	100.02	218.6	669.4	1,067.2	1,036.0	31.21	34.191					
8,200.0	8,171.1	7,874.2	7,537.9	18.3	25.4	100.22	215.4	669.4	1,084.5	1,053.3	31.21	34.753					
8,265.0	8,236.1	7,880.8	7,539.4	18.4	25.4	100.64	209.0	669.3	1,123.7	1,092.5	31.20	36.019					
8,300.0	8,271.1	7,884.1	7,540.1	18.4	25.4	100.84	205.8	669.3	1,145.8	1,114.6	31.20	36.725					
8,360.0	8,331.1	7,900.0	7,543.2	18.4	25.4	101.84	190.2	669.1	1,185.1	1,154.0	31.09	38.116					
8,402.9	8,374.0	7,900.0	7,543.2	18.5	25.4	101.84	190.2	669.1	1,214.1	1,183.1	31.08	39.062					
8,450.0	8,421.1	7,900.0	7,543.2	18.5	25.4	-74.32	190.2	669.1	1,246.6	1,215.4	31.12	40.056					
8,455.0	8,426.0	7,900.0	7,543.2	18.5	25.4	-73.86	190.2	669.1	1,250.0	1,218.9	31.13	40.160					
8,500.0	8,470.7	7,900.0	7,543.2	18.6	25.4	-69.76	190.2	669.1	1,281.2	1,250.0	31.19	41.073					
8,550.0	8,519.5	7,900.0	7,543.2	18.6	25.4	-65.34	190.2	669.1	1,315.8	1,284.5	31.30	42.041					

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	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			
0.0	0.0	2.3	2.3	3.0	3.0	-158.51	-151.1	-59.5	162.4						
95.0	95.0	97.3	97.3	3.0	3.0	-158.51	-151.1	-59.5	162.4	156.4	6.02	26.984			
100.0	100.0	102.3	102.3	3.0	3.0	-158.51	-151.1	-59.5	162.4	156.4	6.02	26.971			
190.0	190.0	192.3	192.3	3.1	3.0	-158.51	-151.1	-59.5	162.4	156.3	6.13	26.478			
200.0	200.0	202.3	202.3	3.1	3.0	-158.51	-151.1	-59.5	162.4	156.2	6.15	26.400			
285.0	285.0	287.3	287.3	3.3	3.0	-158.51	-151.1	-59.5	162.4	156.1	6.26	25.931			
300.0	300.0	302.3	302.3	3.3	3.0	-158.51	-151.1	-59.5	162.4	156.1	6.28	25.838			
380.0	380.0	382.3	382.3	3.4	3.0	-158.51	-151.1	-59.5	162.4	156.0	6.39	25.401			
400.0	400.0	402.3	402.3	3.4	3.0	-158.51	-151.1	-59.5	162.4	156.0	6.42	25.285			
475.0	475.0	477.3	477.3	3.5	3.0	-158.51	-151.1	-59.5	162.4	155.9	6.53	24.880			
500.0	500.0	502.3	502.3	3.5	3.1	-158.51	-151.1	-59.5	162.4	155.8	6.56	24.739			
570.0	570.0	572.3	572.3	3.6	3.1	-158.51	-151.1	-59.5	162.4	155.7	6.66	24.367			
600.0	600.0	602.3	602.3	3.6	3.1	-158.51	-151.1	-59.5	162.4	155.7	6.71	24.203			
665.0	665.0	667.3	667.3	3.7	3.1	-158.51	-151.1	-59.5	162.4	155.6	6.81	23.863			
700.0	700.0	702.3	702.3	3.8	3.1	-158.51	-151.1	-59.5	162.4	155.5	6.86	23.676			
760.0	760.0	762.3	762.3	3.8	3.1	-158.51	-151.1	-59.5	162.4	155.4	6.95	23.368			
800.0	800.0	802.3	802.3	3.9	3.2	-158.51	-151.1	-59.5	162.4	155.4	7.01	23.159			
855.0	855.0	857.3	857.3	4.0	3.2	-158.51	-151.1	-59.5	162.4	155.3	7.10	22.881			
900.0	900.0	902.3	902.3	4.0	3.2	-158.51	-151.1	-59.5	162.4	155.2	7.17	22.652			
950.0	950.0	952.3	952.3	4.1	3.2	-158.51	-151.1	-59.5	162.4	155.1	7.25	22.405			
1,000.0	1,000.0	1,002.3	1,002.3	4.1	3.2	-158.51	-151.1	-59.5	162.4	155.1	7.33	22.156			
1,045.0	1,045.0	1,047.3	1,047.3	4.2	3.3	-158.51	-151.1	-59.5	162.4	155.0	7.40	21.938			
1,100.0	1,100.0	1,102.3	1,102.3	4.2	3.3	-158.51	-151.1	-59.5	162.4	154.9	7.49	21.671			
1,140.0	1,140.0	1,142.3	1,142.3	4.3	3.3	-158.51	-151.1	-59.5	162.4	154.8	7.56	21.481			
1,200.0	1,200.0	1,202.3	1,202.3	4.4	3.4	-158.51	-151.1	-59.5	162.4	154.7	7.66	21.197			
1,235.0	1,235.0	1,237.3	1,237.3	4.4	3.4	-158.51	-151.1	-59.5	162.4	154.7	7.72	21.035			
1,300.0	1,300.0	1,302.3	1,302.3	4.5	3.4	-158.51	-151.1	-59.5	162.4	154.6	7.83	20.735			
1,330.0	1,330.0	1,332.3	1,332.3	4.5	3.4	-158.51	-151.1	-59.5	162.4	154.5	7.88	20.599			
1,400.0	1,400.0	1,402.3	1,402.3	4.6	3.5	-158.51	-151.1	-59.5	162.4	154.4	8.01	20.284			
1,425.0	1,425.0	1,427.3	1,427.3	4.6	3.5	-158.51	-151.1	-59.5	162.4	154.3	8.05	20.174			
1,500.0	1,500.0	1,502.3	1,502.3	4.7	3.5	-158.51	-151.1	-59.5	162.4	154.2	8.18	19.846	CC, ES		
1,520.0	1,520.0	1,522.3	1,522.3	4.8	3.6	-130.70	-151.1	-59.5	162.4	154.2	8.23	19.741			
1,600.0	1,600.0	1,602.3	1,602.3	4.9	3.6	-131.13	-151.1	-59.5	163.5	155.1	8.39	19.484			
1,615.0	1,615.0	1,617.3	1,617.3	4.9	3.6	-131.27	-151.1	-59.5	163.9	155.5	8.44	19.430			
1,700.0	1,699.8	1,702.1	1,702.1	5.2	3.7	-132.42	-151.1	-59.5	167.0	158.3	8.68	19.238			
1,710.0	1,709.8	1,712.1	1,712.1	5.2	3.7	-132.60	-151.1	-59.5	167.5	158.8	8.71	19.226			
1,800.0	1,799.5	1,801.8	1,801.8	5.4	3.8	-134.47	-151.1	-59.5	173.0	164.0	9.00	19.233			
1,805.0	1,804.4	1,806.7	1,806.7	5.4	3.8	-134.58	-151.1	-59.5	173.4	164.4	9.01	19.238			
1,900.0	1,898.7	1,901.0	1,901.0	5.7	3.9	-137.08	-151.1	-59.5	181.8	172.5	9.34	19.457			
1,925.1	1,923.5	1,925.8	1,925.8	5.8	3.9	-137.80	-151.1	-59.5	184.5	175.1	9.40	19.625			
1,995.0	1,992.7	1,995.0	1,995.0	5.9	3.9	-139.86	-151.1	-59.5	192.3	182.7	9.60	20.028			
2,000.0	1,997.6	1,999.9	1,999.9	5.9	3.9	-140.00	-151.1	-59.5	192.9	183.2	9.62	20.057			
2,090.0	2,086.6	2,093.5	2,093.5	6.1	4.1	-142.21	-149.9	-60.4	202.3	192.2	10.02	20.191			
2,100.0	2,096.5	2,104.0	2,104.0	6.2	4.2	-142.41	-149.6	-60.6	203.2	193.1	10.06	20.192			
2,185.0	2,180.6	2,193.1	2,193.0	6.4	4.4	-143.70	-145.9	-63.3	210.2	199.7	10.50	20.012			
2,200.0	2,195.4	2,208.9	2,208.7	6.4	4.5	-143.86	-145.0	-64.0	211.2	200.6	10.58	19.964			
2,280.0	2,274.5	2,293.2	2,292.7	6.7	4.7	-144.45	-139.0	-68.4	215.8	204.8	11.00	19.620			
2,300.0	2,294.3	2,314.4	2,313.7	6.7	4.8	-144.52	-137.2	-69.7	216.7	205.6	11.11	19.514			
2,375.0	2,368.5	2,393.7	2,392.4	7.0	5.0	-144.53	-129.3	-75.5	219.1	207.6	11.50	19.050			
2,400.0	2,393.2	2,420.1	2,418.6	7.0	5.1	-144.44	-126.3	-77.7	219.6	207.9	11.63	18.876			
2,470.0	2,462.5	2,494.2	2,491.7	7.3	5.4	-143.97	-116.8	-84.7	220.0	208.0	12.00	18.337			

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	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: Reference		0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7065-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	2,492.1	2,525.9	2,523.0	7.4	5.5	-143.66	-112.3	-88.0	219.8	207.6	12.15	18.088		
2,565.0	2,556.4	2,594.5	2,590.3	7.6	5.7	-142.76	-101.5	-95.9	218.5	206.1	12.48	17.517		
2,600.0	2,591.0	2,631.4	2,626.3	7.7	5.9	-142.15	-95.2	-100.5	217.4	204.8	12.64	17.197		
2,660.0	2,650.4	2,694.4	2,687.6	7.9	6.1	-140.87	-83.6	-109.0	214.9	202.0	12.92	16.633		
2,700.0	2,689.9	2,734.5	2,726.5	8.1	6.3	-139.94	-75.8	-114.8	212.9	199.8	13.09	16.271		
2,755.0	2,744.3	2,789.2	2,779.6	8.2	6.5	-138.64	-65.1	-122.6	210.3	197.0	13.31	15.802		
2,800.0	2,788.8	2,834.0	2,823.1	8.4	6.6	-137.55	-56.4	-129.0	208.2	194.8	13.49	15.443		
2,850.0	2,838.3	2,883.8	2,871.4	8.6	6.8	-136.32	-46.7	-136.1	206.0	192.4	13.68	15.067		
2,900.0	2,887.7	2,933.5	2,919.6	8.8	7.0	-135.06	-36.9	-143.3	203.9	190.1	13.86	14.718		
2,945.0	2,932.2	2,978.3	2,963.1	8.9	7.1	-133.90	-28.2	-149.7	202.1	188.1	14.01	14.424		
3,000.0	2,986.6	3,033.0	3,016.2	9.1	7.3	-132.46	-17.5	-157.5	200.0	185.8	14.19	14.093		
3,040.0	3,026.2	3,072.8	3,054.8	9.3	7.5	-131.40	-9.8	-163.2	198.6	184.3	14.32	13.869		
3,100.0	3,085.5	3,132.5	3,112.7	9.5	7.7	-129.77	1.9	-171.7	196.6	182.1	14.50	13.561		
3,135.0	3,120.1	3,167.3	3,146.5	9.6	7.8	-128.80	8.7	-176.7	195.5	180.9	14.59	13.397		
3,200.0	3,184.4	3,232.0	3,209.3	9.9	8.1	-126.99	21.3	-186.0	193.6	178.8	14.75	13.119		
3,230.0	3,214.1	3,261.9	3,238.2	10.0	8.2	-126.14	27.1	-190.3	192.7	177.9	14.82	13.002		
3,300.0	3,283.3	3,331.5	3,305.8	10.3	8.5	-124.12	40.7	-200.2	191.0	176.0	14.97	12.759		
3,325.0	3,308.1	3,356.4	3,330.0	10.4	8.6	-123.40	45.5	-203.8	190.5	175.4	15.02	12.680		
3,400.0	3,382.2	3,431.0	3,402.4	10.7	8.9	-121.19	60.1	-214.5	189.0	173.8	15.15	12.474		
3,420.0	3,402.0	3,450.9	3,421.7	10.7	9.0	-120.60	64.0	-217.3	188.6	173.4	15.18	12.426		
3,500.0	3,481.1	3,530.5	3,498.9	11.1	9.3	-118.21	79.5	-228.7	187.4	172.1	15.29	12.258		
3,515.0	3,496.0	3,545.4	3,513.4	11.1	9.4	-117.75	82.4	-230.8	187.2	171.9	15.31	12.231		
3,600.0	3,580.0	3,630.0	3,595.5	11.5	9.8	-115.18	98.9	-243.0	186.4	171.0	15.40	12.103		
3,610.0	3,589.9	3,640.0	3,605.1	11.5	9.8	-114.87	100.8	-244.4	186.3	170.9	15.41	12.090		
3,700.0	3,678.9	3,729.5	3,692.0	11.9	10.2	-112.13	118.3	-257.2	185.9	170.4	15.50	11.998		
3,705.0	3,683.9	3,734.5	3,696.8	11.9	10.2	-111.97	119.3	-257.9	185.9	170.4	15.50	11.994		
3,741.4	3,719.9	3,770.7	3,732.0	12.0	10.4	-110.86	126.3	-263.1	185.9	170.3	15.53	11.967		
3,800.0	3,777.8	3,829.0	3,788.5	12.3	10.6	-109.07	137.7	-271.4	186.0	170.4	15.58	11.934		
3,895.0	3,871.8	3,923.6	3,880.3	12.6	11.0	-106.17	156.2	-285.0	186.5	170.8	15.67	11.899		
3,900.0	3,876.7	3,928.5	3,885.1	12.7	11.1	-106.02	157.1	-285.7	186.5	170.9	15.68	11.898		
3,990.0	3,965.8	4,018.1	3,972.0	13.0	11.5	-103.30	174.6	-298.5	187.5	171.7	15.78	11.881		
4,000.0	3,975.6	4,028.0	3,981.6	13.1	11.5	-103.00	176.5	-299.9	187.6	171.9	15.80	11.879		
4,085.0	4,059.7	4,112.6	4,063.7	13.4	11.9	-100.46	193.0	-312.0	189.0	173.1	15.93	11.868		
4,100.0	4,074.5	4,127.5	4,078.2	13.5	12.0	-100.02	195.9	-314.2	189.3	173.3	15.95	11.866		
4,127.7	4,101.9	4,155.1	4,104.9	13.6	12.1	-99.20	201.3	-318.1	189.8	173.8	15.99	11.875		
4,180.0	4,153.7	4,207.1	4,155.4	13.8	12.3	-97.62	211.5	-325.5	190.9	174.8	16.07	11.877		
4,200.0	4,173.5	4,227.0	4,174.7	13.9	12.4	-96.98	215.3	-328.4	191.4	175.2	16.11	11.877		
4,275.0	4,247.9	4,301.5	4,246.9	14.2	12.8	-94.44	229.9	-339.1	193.2	176.9	16.30	11.853		
4,300.0	4,272.7	4,326.3	4,271.0	14.3	12.9	-93.54	234.7	-342.6	193.9	177.5	16.37	11.841		
4,370.0	4,342.3	4,395.6	4,338.3	14.5	13.2	-90.90	248.2	-352.5	196.0	179.4	16.62	11.796		
4,400.0	4,372.1	4,425.3	4,367.1	14.6	13.3	-89.72	254.0	-356.8	197.1	180.3	16.75	11.768		
4,465.0	4,436.8	4,489.6	4,429.5	14.9	13.6	-87.05	266.6	-366.0	199.7	182.6	17.08	11.691		
4,500.0	4,471.7	4,524.1	4,463.0	15.0	13.8	-85.56	273.3	-370.9	201.3	184.0	17.30	11.638		
4,560.0	4,531.5	4,583.3	4,520.4	15.2	14.1	-82.94	284.8	-379.4	204.4	186.7	17.73	11.531		
4,600.0	4,571.4	4,622.7	4,558.6	15.4	14.2	-81.16	292.5	-385.0	206.8	188.7	18.07	11.448		
4,655.0	4,626.3	4,676.8	4,611.1	15.6	14.5	-78.65	303.1	-392.8	210.5	191.9	18.59	11.323		
4,700.0	4,671.2	4,720.9	4,653.9	15.7	14.7	-76.58	311.7	-399.1	214.0	194.9	19.08	11.214		
4,750.0	4,721.2	4,769.9	4,701.5	15.9	14.9	-74.26	321.2	-406.1	218.2	198.5	19.67	11.092		
4,800.0	4,771.1	4,818.8	4,748.9	16.0	15.2	-71.94	330.8	-413.1	223.0	202.7	20.32	10.972		
4,845.0	4,816.1	4,862.8	4,791.6	16.2	15.4	-69.85	339.3	-419.4	227.7	206.8	20.94	10.874		
4,900.0	4,871.1	4,916.4	4,843.6	16.3	15.6	-67.33	349.8	-427.1	234.1	212.3	21.74	10.766		

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	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	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)		
4,940.0	4,911.1	4,955.3	4,881.3	16.4	15.8	-65.51	357.4	-432.6	239.2	216.8	22.33	10.710	
4,977.9	4,949.0	4,992.1	4,917.0	16.4	16.0	-91.64	364.6	-437.9	244.3	221.4	22.90	10.669	
5,000.0	4,971.1	5,013.5	4,937.9	16.4	16.1	-90.64	368.8	-441.0	247.5	224.2	23.22	10.658	
5,035.0	5,006.1	5,047.5	4,970.8	16.5	16.2	-89.11	375.4	-445.8	252.6	228.8	23.74	10.641	
5,100.0	5,071.1	5,110.6	5,032.0	16.5	16.5	-86.42	387.7	-454.9	262.5	237.9	24.68	10.640 SF	
5,130.0	5,101.1	5,139.7	5,060.2	16.5	16.7	-85.25	393.4	-459.0	267.3	242.2	25.10	10.651	
5,200.0	5,171.1	5,207.6	5,126.1	16.6	17.0	-82.66	406.6	-468.7	278.9	252.9	26.06	10.705	
5,225.0	5,196.1	5,231.8	5,149.7	16.6	17.1	-81.79	411.3	-472.2	283.2	256.8	26.39	10.732	
5,300.0	5,271.1	5,304.6	5,220.3	16.6	17.4	-79.32	425.5	-482.6	296.4	269.0	27.35	10.838	
5,320.0	5,291.1	5,324.0	5,239.1	16.6	17.5	-78.70	429.3	-485.4	300.0	272.4	27.59	10.871	
5,400.0	5,371.1	5,401.6	5,314.4	16.7	17.9	-76.35	444.5	-496.5	314.7	286.2	28.55	11.024	
5,415.0	5,386.1	5,416.2	5,328.6	16.7	18.0	-75.93	447.3	-498.6	317.5	288.8	28.72	11.055	
5,500.0	5,471.1	5,498.7	5,408.6	16.7	18.4	-73.71	463.4	-510.4	333.8	304.1	29.67	11.251	
5,510.0	5,481.1	5,508.4	5,418.0	16.7	18.4	-73.46	465.3	-511.8	335.8	306.0	29.78	11.276	
5,600.0	5,571.1	5,595.7	5,502.7	16.8	18.8	-71.34	482.3	-524.3	353.5	322.8	30.72	11.509	
5,605.0	5,576.1	5,600.6	5,507.4	16.8	18.8	-71.23	483.3	-525.0	354.5	323.8	30.77	11.523	
5,700.0	5,671.1	5,692.7	5,596.9	16.8	19.3	-69.23	501.2	-538.2	373.8	342.1	31.70	11.791	
5,795.0	5,766.1	5,784.9	5,686.3	16.9	19.7	-67.42	519.2	-551.4	393.4	360.8	32.58	12.074	
5,800.0	5,771.1	5,789.8	5,691.0	16.9	19.7	-67.33	520.2	-552.1	394.5	361.8	32.63	12.089	
5,890.0	5,861.1	5,877.1	5,775.8	17.0	20.2	-65.79	537.2	-564.6	413.4	380.0	33.42	12.368	
5,900.0	5,871.1	5,886.8	5,785.2	17.0	20.2	-65.62	539.1	-566.0	415.5	382.0	33.51	12.400	
5,985.0	5,956.1	5,969.8	5,865.7	17.0	20.6	-64.29	555.3	-577.8	433.7	399.5	34.22	12.674	
6,000.0	5,971.1	5,986.6	5,882.1	17.0	20.7	-64.04	558.5	-580.2	436.9	402.5	34.36	12.716	
6,080.0	6,051.1	6,077.3	5,970.5	17.1	21.1	-62.85	574.5	-592.0	452.6	417.5	35.07	12.905	
6,100.0	6,071.1	6,100.1	5,992.9	17.1	21.2	-62.59	578.2	-594.7	456.2	420.9	35.24	12.946	
6,175.0	6,146.1	6,186.5	6,077.8	17.1	21.6	-61.73	590.8	-603.9	468.4	432.6	35.82	13.079	
6,200.0	6,171.1	6,215.4	6,106.4	17.1	21.8	-61.48	594.6	-606.7	472.1	436.1	36.00	13.115	
6,270.0	6,241.1	6,297.1	6,187.2	17.2	22.1	-60.89	604.0	-613.6	481.2	444.7	36.46	13.198	
6,300.0	6,271.1	6,332.2	6,222.1	17.2	22.3	-60.67	607.5	-616.1	484.5	447.9	36.63	13.226	
6,365.0	6,336.1	6,408.8	6,298.2	17.2	22.6	-60.29	613.8	-620.8	490.6	453.6	36.98	13.267	
6,400.0	6,371.1	6,450.2	6,339.5	17.3	22.8	-60.13	616.6	-622.8	493.3	456.1	37.14	13.281	
6,460.0	6,431.1	6,521.3	6,410.5	17.3	23.0	-59.92	620.2	-625.5	496.7	459.3	37.38	13.289	
6,500.0	6,471.1	6,568.8	6,457.9	17.3	23.2	-59.83	621.8	-626.6	498.3	460.8	37.50	13.286	
6,555.0	6,526.1	6,634.3	6,523.4	17.3	23.4	-59.76	623.0	-627.5	499.4	461.8	37.59	13.284	
6,600.0	6,571.1	6,684.3	6,573.4	17.4	23.4	-59.75	623.1	-627.6	499.5	461.9	37.62	13.279	
6,650.0	6,621.1	6,734.3	6,623.4	17.4	23.4	-59.75	623.1	-627.6	499.5	461.9	37.67	13.262	
6,700.0	6,671.1	6,784.3	6,673.4	17.4	23.5	-59.75	623.1	-627.6	499.5	461.8	37.72	13.243	
6,745.0	6,716.1	6,829.3	6,718.4	17.5	23.5	-59.75	623.1	-627.6	499.5	461.8	37.77	13.226	
6,800.0	6,771.1	6,884.3	6,773.4	17.5	23.5	-59.75	623.1	-627.6	499.5	461.7	37.83	13.205	
6,840.0	6,811.1	6,924.3	6,813.4	17.5	23.5	-59.75	623.1	-627.6	499.5	461.7	37.87	13.190	
6,900.0	6,871.1	6,984.3	6,873.4	17.6	23.5	-59.75	623.1	-627.6	499.5	461.6	37.93	13.168	
6,935.0	6,906.1	7,019.3	6,908.4	17.6	23.6	-59.75	623.1	-627.6	499.5	461.6	37.97	13.156	
7,000.0	6,971.1	7,093.8	6,982.9	17.6	23.6	-59.83	622.4	-627.7	499.3	461.4	37.89	13.177	
7,030.0	7,001.1	7,138.2	7,027.1	17.6	23.6	-60.25	618.5	-628.3	498.3	460.7	37.65	13.238	
7,100.0	7,071.1	7,237.5	7,124.0	17.7	23.7	-62.55	597.6	-631.2	493.0	456.2	36.78	13.402	
7,125.0	7,096.1	7,270.9	7,155.6	17.7	23.7	-63.75	586.9	-632.7	490.2	453.8	36.41	13.463	
7,200.0	7,171.1	7,362.2	7,238.1	17.7	23.7	-68.18	548.5	-638.2	480.6	445.3	35.22	13.645	
7,220.0	7,191.1	7,384.2	7,257.0	17.7	23.8	-69.51	537.3	-639.8	477.9	443.0	34.90	13.693	
7,300.0	7,271.1	7,462.3	7,320.3	17.8	23.8	-75.00	492.1	-646.2	468.3	434.6	33.68	13.906	
7,315.0	7,286.1	7,475.2	7,330.2	17.8	23.8	-76.03	483.8	-647.3	466.9	433.4	33.46	13.953	
7,400.0	7,371.1	7,540.0	7,376.5	17.9	23.9	-81.60	439.1	-653.7	462.5	430.2	32.32	14.310	

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	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			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)			
7,405.6	7,376.8	7,543.8	7,379.1	17.9	23.9	-81.95	436.3	-654.0	462.5	430.3	32.25	14.341		
7,410.0	7,381.1	7,546.7	7,381.0	17.9	23.9	-82.22	434.1	-654.4	462.5	430.3	32.20	14.365		
7,500.0	7,471.1	7,600.0	7,414.6	17.9	23.9	-87.32	393.2	-660.1	468.2	437.1	31.17	15.024		
7,505.0	7,476.1	7,600.0	7,414.6	17.9	23.9	-87.32	393.2	-660.1	468.9	437.7	31.21	15.026		
7,600.0	7,571.1	7,650.0	7,442.6	18.0	24.0	-92.35	352.2	-665.9	488.1	458.0	30.11	16.210		
7,695.0	7,666.1	7,682.2	7,458.6	18.0	24.0	-95.66	324.5	-669.9	520.2	490.7	29.52	17.621		
7,700.0	7,671.1	7,683.9	7,459.4	18.0	24.0	-95.83	323.1	-670.1	522.3	492.8	29.49	17.708		
7,790.0	7,761.1	7,711.0	7,471.6	18.1	24.0	-98.62	299.1	-673.4	564.1	535.1	29.04	19.425		
7,800.0	7,771.1	7,713.7	7,472.8	18.1	24.0	-98.90	296.7	-673.8	569.4	540.4	29.00	19.631		
7,885.0	7,856.1	7,734.8	7,481.4	18.2	24.0	-101.05	277.7	-676.5	617.8	589.1	28.75	21.491		
7,900.0	7,871.1	7,738.1	7,482.7	18.2	24.0	-101.40	274.6	-676.9	627.1	598.4	28.72	21.836		
7,980.0	7,951.1	7,750.0	7,487.2	18.2	24.0	-102.60	263.7	-678.5	679.5	650.8	28.69	23.685		
8,000.0	7,971.1	7,750.0	7,487.2	18.2	24.0	-102.60	263.7	-678.5	693.4	664.6	28.73	24.131		
8,075.0	8,046.1	7,771.5	7,494.6	18.3	24.0	-104.75	243.7	-681.3	747.3	718.7	28.58	26.144		
8,100.0	8,071.1	7,775.5	7,496.0	18.3	24.1	-105.15	240.0	-681.8	765.9	737.4	28.59	26.791		
8,170.0	8,141.1	7,785.9	7,499.3	18.3	24.1	-106.18	230.2	-683.2	819.9	791.2	28.64	28.630		
8,200.0	8,171.1	7,800.0	7,503.4	18.3	24.1	-107.55	216.9	-685.1	843.7	815.2	28.56	29.547		
8,265.0	8,236.1	7,800.0	7,503.4	18.4	24.1	-107.55	216.9	-685.1	896.2	867.5	28.73	31.193		
8,300.0	8,271.1	7,800.0	7,503.4	18.4	24.1	-107.55	216.9	-685.1	925.2	896.3	28.82	32.098		
8,360.0	8,331.1	7,800.0	7,503.4	18.4	24.1	-107.55	216.9	-685.1	975.7	946.7	29.00	33.645		
8,402.9	8,374.0	7,800.0	7,503.4	18.5	24.1	-107.55	216.9	-685.1	1,012.4	983.3	29.12	34.765		
8,450.0	8,421.1	7,819.1	7,508.5	18.5	24.1	62.99	198.7	-687.7	1,052.5	1,023.4	29.11	36.150		
8,455.0	8,426.0	7,819.7	7,508.7	18.5	24.1	62.22	198.1	-687.7	1,056.7	1,027.6	29.13	36.281		
8,500.0	8,470.7	7,825.9	7,510.2	18.6	24.1	55.66	192.2	-688.6	1,094.8	1,065.6	29.25	37.424		
8,550.0	8,519.5	7,833.7	7,512.0	18.6	24.1	49.29	184.7	-689.6	1,136.4	1,106.9	29.43	38.616		
8,600.0	8,567.3	7,850.0	7,515.5	18.7	24.1	43.60	168.9	-691.9	1,176.9	1,147.3	29.59	39.780		
8,645.0	8,609.0	7,850.0	7,515.5	18.7	24.1	39.83	168.9	-691.9	1,212.1	1,182.3	29.84	40.621		
8,650.0	8,613.5	7,850.0	7,515.5	18.7	24.1	39.45	168.9	-691.9	1,216.0	1,186.1	29.87	40.710		
8,700.0	8,658.0	7,850.0	7,515.5	18.8	24.1	35.93	168.9	-691.9	1,253.7	1,223.6	30.18	41.545		
8,740.0	8,692.0	7,870.7	7,519.3	18.9	24.1	33.13	148.7	-694.7	1,282.4	1,252.0	30.33	42.275		
8,750.0	8,700.3	7,873.0	7,519.6	18.9	24.1	32.56	146.5	-695.0	1,289.4	1,259.0	30.39	42.426		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	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
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	2.1	2.1	3.0	3.0	-168.92	-150.6	-29.5	153.5					
95.0	95.0	97.1	97.1	3.0	3.0	-168.92	-150.6	-29.5	153.5	147.4	6.02	25.500		
100.0	100.0	102.1	102.1	3.0	3.0	-168.92	-150.6	-29.5	153.5	147.4	6.02	25.488		
190.0	190.0	192.1	192.1	3.1	3.0	-168.92	-150.6	-29.5	153.5	147.3	6.13	25.020		
200.0	200.0	202.1	202.1	3.1	3.0	-168.92	-150.6	-29.5	153.5	147.3	6.15	24.946		
285.0	285.0	287.1	287.1	3.3	3.0	-168.92	-150.6	-29.5	153.5	147.2	6.26	24.498		
300.0	300.0	302.1	302.1	3.3	3.0	-168.92	-150.6	-29.5	153.5	147.2	6.29	24.409		
380.0	380.0	382.1	382.1	3.4	3.0	-168.92	-150.6	-29.5	153.5	147.1	6.40	23.990		
400.0	400.0	402.1	402.1	3.4	3.0	-168.92	-150.6	-29.5	153.5	147.0	6.43	23.878		
475.0	475.0	477.1	477.1	3.5	3.0	-168.92	-150.6	-29.5	153.5	146.9	6.53	23.489		
500.0	500.0	502.1	502.1	3.5	3.1	-168.92	-150.6	-29.5	153.5	146.9	6.57	23.354		
570.0	570.0	572.1	572.1	3.6	3.1	-168.92	-150.6	-29.5	153.5	146.8	6.67	22.995		
600.0	600.0	602.1	602.1	3.6	3.1	-168.92	-150.6	-29.5	153.5	146.7	6.72	22.837		
665.0	665.0	667.1	667.1	3.7	3.1	-168.92	-150.6	-29.5	153.5	146.6	6.82	22.508		
700.0	700.0	702.1	702.1	3.8	3.1	-168.92	-150.6	-29.5	153.5	146.6	6.87	22.327		
760.0	760.0	762.1	762.1	3.8	3.1	-168.92	-150.6	-29.5	153.5	146.5	6.97	22.028		
800.0	800.0	802.1	802.1	3.9	3.2	-168.92	-150.6	-29.5	153.5	146.4	7.03	21.827		
855.0	855.0	857.1	857.1	4.0	3.2	-168.92	-150.6	-29.5	153.5	146.3	7.12	21.557		
900.0	900.0	902.1	902.1	4.0	3.2	-168.92	-150.6	-29.5	153.5	146.3	7.19	21.335		
950.0	950.0	952.1	952.1	4.1	3.2	-168.92	-150.6	-29.5	153.5	146.2	7.27	21.095		
1,000.0	1,000.0	1,002.1	1,002.1	4.1	3.2	-168.92	-150.6	-29.5	153.5	146.1	7.36	20.854		
1,045.0	1,045.0	1,047.1	1,047.1	4.2	3.3	-168.92	-150.6	-29.5	153.5	146.0	7.43	20.642		
1,100.0	1,100.0	1,102.1	1,102.1	4.2	3.3	-168.92	-150.6	-29.5	153.5	145.9	7.53	20.383		
1,140.0	1,140.0	1,142.1	1,142.1	4.3	3.3	-168.92	-150.6	-29.5	153.5	145.9	7.60	20.199		
1,200.0	1,200.0	1,202.1	1,202.1	4.4	3.4	-168.92	-150.6	-29.5	153.5	145.8	7.70	19.923		
1,235.0	1,235.0	1,237.1	1,237.1	4.4	3.4	-168.92	-150.6	-29.5	153.5	145.7	7.76	19.766		
1,300.0	1,300.0	1,302.1	1,302.1	4.5	3.4	-168.92	-150.6	-29.5	153.5	145.6	7.88	19.475		
1,330.0	1,330.0	1,332.1	1,332.1	4.5	3.4	-168.92	-150.6	-29.5	153.5	145.5	7.93	19.343		
1,400.0	1,400.0	1,402.1	1,402.1	4.6	3.5	-168.92	-150.6	-29.5	153.5	145.4	8.06	19.038		
1,425.0	1,425.0	1,427.1	1,427.1	4.6	3.5	-168.92	-150.6	-29.5	153.5	145.4	8.11	18.931		
1,500.0	1,500.0	1,502.1	1,502.1	4.7	3.5	-168.92	-150.6	-29.5	153.5	145.2	8.25	18.613		
1,520.0	1,520.0	1,522.1	1,522.1	4.8	3.6	-141.10	-150.6	-29.5	153.5	145.2	8.29	18.511		
1,600.0	1,600.0	1,602.1	1,602.1	4.9	3.6	-141.48	-150.6	-29.5	154.8	146.3	8.48	18.262		
1,615.0	1,615.0	1,617.1	1,617.1	4.9	3.6	-141.60	-150.6	-29.5	155.3	146.7	8.52	18.217		
1,700.0	1,699.8	1,701.9	1,701.9	5.2	3.7	-142.60	-150.6	-29.5	159.0	150.2	8.78	18.097		
1,710.0	1,709.8	1,711.9	1,711.9	5.2	3.7	-142.75	-150.6	-29.5	159.5	150.7	8.82	18.096		
1,800.0	1,799.5	1,801.6	1,801.6	5.4	3.8	-144.35	-150.6	-29.5	166.0	156.9	9.11	18.214		
1,805.0	1,804.4	1,806.5	1,806.5	5.4	3.8	-144.45	-150.6	-29.5	166.4	157.3	9.13	18.227		
1,900.0	1,898.7	1,900.8	1,900.8	5.7	3.9	-146.54	-150.6	-29.5	176.0	166.6	9.47	18.592		
1,925.1	1,923.5	1,925.6	1,925.6	5.8	3.9	-147.14	-150.6	-29.5	179.1	169.5	9.52	18.802		
1,995.0	1,992.7	1,994.8	1,994.8	5.9	3.9	-148.85	-150.6	-29.5	187.8	178.1	9.72	19.325		
2,000.0	1,997.6	1,999.7	1,999.7	5.9	3.9	-148.96	-150.6	-29.5	188.5	178.7	9.73	19.362		
2,090.0	2,086.6	2,095.3	2,095.2	6.1	4.2	-150.98	-149.0	-29.7	198.6	188.4	10.19	19.480		
2,100.0	2,096.5	2,105.9	2,105.9	6.2	4.2	-151.19	-148.7	-29.8	199.5	189.3	10.25	19.469		
2,185.0	2,180.6	2,196.9	2,196.7	6.4	4.5	-152.78	-143.9	-30.5	206.2	195.5	10.75	19.180		
2,200.0	2,195.4	2,213.0	2,212.8	6.4	4.5	-153.03	-142.8	-30.7	207.1	196.3	10.84	19.106		
2,280.0	2,274.5	2,299.0	2,298.5	6.7	4.8	-154.33	-135.2	-31.8	210.7	199.4	11.34	18.584		
2,300.0	2,294.3	2,320.5	2,319.9	6.7	4.9	-154.64	-132.9	-32.1	211.2	199.8	11.46	18.425		
2,375.0	2,368.5	2,401.4	2,400.1	7.0	5.2	-155.73	-122.8	-33.6	211.9	200.0	11.95	17.736		
2,400.0	2,393.2	2,428.3	2,426.7	7.0	5.2	-156.09	-119.0	-34.2	211.7	199.6	12.11	17.476		
2,470.0	2,462.5	2,503.8	2,501.2	7.3	5.5	-157.05	-106.9	-36.0	209.9	197.3	12.58	16.681		

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	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	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor
2,500.0	2,492.1	2,536.1	2,532.9	7.4	5.6	-157.46	-101.1	-36.9	208.5	195.8	12.74	16.371
2,565.0	2,556.4	2,601.9	2,597.6	7.6	5.7	-158.31	-88.7	-38.7	205.0	191.9	13.10	15.649
2,600.0	2,591.0	2,636.8	2,631.9	7.7	5.8	-158.77	-82.2	-39.7	203.1	189.8	13.33	15.237
2,660.0	2,650.4	2,696.7	2,690.6	7.9	6.0	-159.57	-70.9	-41.4	199.9	186.2	13.73	14.558
2,700.0	2,689.9	2,736.6	2,729.8	8.1	6.2	-160.12	-63.3	-42.5	197.8	183.8	14.01	14.121
2,755.0	2,744.3	2,791.4	2,783.6	8.2	6.3	-160.90	-53.0	-44.1	194.9	180.6	14.40	13.543
2,800.0	2,788.8	2,836.3	2,827.7	8.4	6.5	-161.56	-44.5	-45.3	192.6	177.9	14.72	13.088
2,850.0	2,838.3	2,886.2	2,876.6	8.6	6.7	-162.30	-35.1	-46.7	190.1	175.0	15.08	12.603
2,900.0	2,887.7	2,936.1	2,925.6	8.8	6.8	-163.07	-25.7	-48.1	187.6	172.1	15.45	12.139
2,945.0	2,932.2	2,981.0	2,969.7	8.9	7.0	-163.78	-17.2	-49.4	185.3	169.5	15.79	11.738
3,000.0	2,986.6	3,035.8	3,023.5	9.1	7.2	-164.66	-6.8	-50.9	182.6	166.4	16.20	11.270
3,040.0	3,026.2	3,075.7	3,062.7	9.3	7.3	-165.33	0.7	-52.1	180.7	164.2	16.51	10.944
3,100.0	3,085.5	3,135.6	3,121.4	9.5	7.6	-166.34	12.0	-53.7	177.8	160.9	16.98	10.477
3,135.0	3,120.1	3,170.5	3,155.7	9.6	7.7	-166.95	18.6	-54.7	176.2	159.0	17.25	10.216
3,200.0	3,184.4	3,235.3	3,219.3	9.9	8.0	-168.12	30.8	-56.6	173.2	155.5	17.76	9.756
3,230.0	3,214.1	3,265.2	3,248.7	10.0	8.1	-168.67	36.5	-57.4	171.9	153.9	17.99	9.552
3,300.0	3,283.3	3,335.0	3,317.2	10.3	8.3	-169.98	49.6	-59.4	168.8	150.2	18.54	9.101
3,325.0	3,308.1	3,360.0	3,341.7	10.4	8.4	-170.47	54.3	-60.1	167.7	149.0	18.74	8.948
3,400.0	3,382.2	3,434.8	3,415.2	10.7	8.7	-171.95	68.5	-62.2	164.5	145.2	19.33	8.510
3,420.0	3,402.0	3,454.7	3,434.7	10.7	8.8	-172.35	72.2	-62.7	163.7	144.2	19.49	8.399
3,500.0	3,481.1	3,534.5	3,513.1	11.1	9.1	-174.02	87.3	-65.0	160.5	140.4	20.12	7.977
3,515.0	3,496.0	3,549.5	3,527.8	11.1	9.2	-174.33	90.1	-65.4	159.9	139.7	20.23	7.902
3,600.0	3,580.0	3,634.3	3,611.0	11.5	9.6	-176.19	106.1	-67.8	156.6	135.8	20.89	7.498
3,610.0	3,589.9	3,644.3	3,620.8	11.5	9.6	-176.41	108.0	-68.1	156.3	135.3	20.97	7.453
3,700.0	3,678.9	3,734.0	3,708.9	11.9	10.0	-178.46	124.9	-70.6	153.1	131.4	21.65	7.071
3,705.0	3,683.9	3,739.0	3,713.8	11.9	10.0	-178.58	125.9	-70.7	152.9	131.2	21.68	7.051
3,800.0	3,777.8	3,833.8	3,806.8	12.3	10.4	179.16	143.8	-73.4	149.7	127.3	22.37	6.691
3,895.0	3,871.8	3,928.5	3,899.8	12.6	10.8	176.80	161.7	-76.1	146.8	123.8	23.04	6.372
3,900.0	3,876.7	3,933.5	3,904.7	12.7	10.8	176.67	162.6	-76.2	146.6	123.6	23.07	6.356
3,990.0	3,965.8	4,023.3	3,992.8	13.0	11.2	174.35	179.5	-78.7	144.1	120.5	23.66	6.091
4,000.0	3,975.6	4,033.3	4,002.6	13.1	11.2	174.09	181.4	-79.0	143.9	120.1	23.72	6.064
4,085.0	4,059.7	4,118.1	4,085.9	13.4	11.6	171.82	197.4	-81.4	141.7	117.5	24.24	5.847
4,100.0	4,074.5	4,133.0	4,100.5	13.5	11.7	171.41	200.2	-81.8	141.4	117.1	24.33	5.812
4,127.7	4,101.9	4,160.6	4,127.7	13.6	11.8	170.65	205.5	-82.6	140.7	116.3	24.47	5.751
4,180.0	4,153.7	4,212.8	4,178.9	13.8	12.0	169.18	215.3	-84.1	139.4	114.6	24.74	5.633
4,200.0	4,173.5	4,232.7	4,198.4	13.9	12.1	168.60	219.1	-84.6	138.8	113.9	24.84	5.586
4,275.0	4,247.9	4,307.5	4,271.8	14.2	12.4	166.31	233.2	-86.7	136.0	110.8	25.18	5.400
4,300.0	4,272.7	4,332.4	4,296.3	14.3	12.5	165.51	237.9	-87.4	134.9	109.6	25.28	5.336
4,370.0	4,342.3	4,402.1	4,364.7	14.5	12.8	163.11	251.0	-89.4	131.4	105.9	25.51	5.153
4,400.0	4,372.1	4,431.9	4,394.0	14.6	13.0	162.01	256.7	-90.2	129.8	104.2	25.58	5.073
4,465.0	4,436.8	4,496.6	4,457.4	14.9	13.3	159.44	268.9	-92.1	125.8	100.2	25.67	4.901
4,500.0	4,471.7	4,531.3	4,491.5	15.0	13.4	157.94	275.4	-93.0	123.5	97.9	25.69	4.809
4,560.0	4,531.5	4,590.9	4,550.0	15.2	13.7	155.14	286.7	-94.7	119.4	93.7	25.62	4.659
4,600.0	4,571.4	4,630.6	4,589.0	15.4	13.9	153.08	294.2	-95.8	116.4	90.9	25.52	4.563
4,655.0	4,626.3	4,685.1	4,642.4	15.6	14.1	149.98	304.4	-97.4	112.3	87.0	25.27	4.444
4,700.0	4,671.2	4,729.6	4,686.2	15.7	14.3	147.16	312.9	-98.6	108.8	83.8	24.97	4.358
4,750.0	4,721.2	4,779.0	4,734.7	15.9	14.5	143.69	322.2	-100.0	104.9	80.4	24.50	4.283
4,800.0	4,771.1	4,828.4	4,783.1	16.0	14.7	139.83	331.5	-101.4	101.2	77.3	23.90	4.233
4,845.0	4,816.1	4,872.8	4,826.7	16.2	14.9	135.97	339.9	-102.7	97.9	74.7	23.22	4.216
4,900.0	4,871.1	4,926.9	4,879.9	16.3	15.2	130.73	350.1	-104.2	94.3	72.0	22.25	4.237
4,940.0	4,911.1	4,966.3	4,918.5	16.4	15.3	126.53	357.5	-105.3	92.0	70.5	21.43	4.291

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	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	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
4,977.9	4,949.0	5,003.5	4,955.0	16.4	15.5	94.43	364.5	-106.3	90.1	69.5	20.65	4.365	
5,000.0	4,971.1	5,025.2	4,976.3	16.4	15.6	91.83	368.6	-106.9	89.3	69.1	20.19	4.421	
5,035.0	5,006.1	5,059.5	5,010.1	16.5	15.8	87.64	375.1	-107.9	88.3	68.7	19.57	4.512	
5,085.3	5,056.4	5,108.9	5,058.5	16.5	16.0	81.51	384.5	-109.3	87.8	68.8	18.94	4.635	
5,100.0	5,071.1	5,123.4	5,072.7	16.5	16.0	79.72	387.2	-109.7	87.8	69.0	18.82	4.665	
5,130.0	5,101.1	5,152.8	5,101.6	16.5	16.2	76.06	392.7	-110.5	88.2	69.5	18.71	4.713	
5,200.0	5,171.1	5,221.5	5,169.0	16.6	16.5	67.76	405.7	-112.5	90.5	71.4	19.04	4.751	
5,225.0	5,196.1	5,246.1	5,193.1	16.6	16.6	64.91	410.3	-113.2	91.7	72.4	19.34	4.742	
5,300.0	5,271.1	5,319.7	5,265.4	16.6	16.9	56.89	424.2	-115.2	96.9	76.2	20.67	4.686	
5,320.0	5,291.1	5,339.3	5,284.7	16.6	17.0	54.91	427.9	-115.8	98.5	77.4	21.10	4.671	
5,400.0	5,371.1	5,417.8	5,361.8	16.7	17.4	47.62	442.8	-118.0	106.3	83.4	22.93	4.638	
5,415.0	5,386.1	5,432.6	5,376.2	16.7	17.4	46.38	445.5	-118.4	108.0	84.7	23.28	4.639	
5,500.0	5,471.1	5,516.0	5,458.1	16.7	17.8	40.00	461.3	-120.8	118.2	93.0	25.20	4.691	
5,510.0	5,481.1	5,525.8	5,467.8	16.7	17.9	39.32	463.1	-121.0	119.5	94.1	25.41	4.701	
5,600.0	5,571.1	5,614.2	5,554.5	16.8	18.3	33.82	479.8	-123.5	131.7	104.5	27.22	4.840	
5,605.0	5,576.1	5,619.1	5,559.3	16.8	18.3	33.55	480.7	-123.7	132.4	105.1	27.31	4.849	
5,700.0	5,671.1	5,712.3	5,650.8	16.8	18.7	28.83	498.3	-126.3	146.5	117.6	28.95	5.060	
5,795.0	5,766.1	5,805.6	5,742.4	16.9	19.1	24.95	515.9	-128.9	161.4	131.0	30.37	5.315	
5,800.0	5,771.1	5,810.5	5,747.2	16.9	19.2	24.76	516.9	-129.0	162.2	131.8	30.44	5.329	
5,890.0	5,861.1	5,899.1	5,834.2	17.0	19.5	21.72	533.6	-131.5	176.9	145.3	31.59	5.599	
5,900.0	5,871.1	5,909.2	5,844.1	17.0	19.6	21.41	535.5	-131.8	178.5	146.8	31.71	5.629	
5,985.0	5,956.1	5,995.2	5,928.7	17.0	20.0	19.07	550.8	-134.1	192.0	159.3	32.66	5.877	
6,000.0	5,971.1	6,010.5	5,943.7	17.0	20.0	18.71	553.4	-134.5	194.3	161.5	32.82	5.920	
6,080.0	6,051.1	6,092.0	6,024.1	17.1	20.4	17.01	566.5	-136.5	206.0	172.4	33.58	6.134	
6,100.0	6,071.1	6,112.4	6,044.3	17.1	20.5	16.63	569.6	-136.9	208.8	175.0	33.76	6.185	
6,175.0	6,146.1	6,189.2	6,120.3	17.1	20.8	15.38	580.7	-138.6	218.8	184.4	34.38	6.362	
6,200.0	6,171.1	6,214.9	6,145.8	17.1	20.9	15.01	584.2	-139.1	221.9	187.3	34.58	6.418	
6,270.0	6,241.1	6,286.9	6,217.2	17.2	21.2	14.08	593.3	-140.5	230.2	195.1	35.09	6.560	
6,300.0	6,271.1	6,317.9	6,247.9	17.2	21.4	13.73	597.0	-141.0	233.5	198.2	35.30	6.616	
6,365.0	6,336.1	6,385.0	6,314.7	17.2	21.6	13.05	604.4	-142.1	240.2	204.5	35.72	6.725	
6,400.0	6,371.1	6,421.3	6,350.7	17.3	21.8	12.73	608.1	-142.6	243.6	207.6	35.94	6.777	
6,460.0	6,431.1	6,483.5	6,412.7	17.3	22.0	12.25	613.8	-143.5	248.8	212.5	36.29	6.857	
6,500.0	6,471.1	6,525.1	6,454.1	17.3	22.2	11.96	617.3	-144.0	252.0	215.5	36.51	6.902	
6,555.0	6,526.1	6,582.3	6,511.2	17.3	22.4	11.62	621.6	-144.7	255.9	219.1	36.79	6.955	
6,600.0	6,571.1	6,629.2	6,557.9	17.4	22.6	11.38	624.7	-145.1	258.7	221.7	37.01	6.991	
6,650.0	6,621.1	6,681.3	6,610.0	17.4	22.8	11.16	627.7	-145.6	261.5	224.2	37.24	7.022	
6,700.0	6,671.1	6,733.5	6,662.1	17.4	22.9	10.97	630.2	-146.0	263.8	226.3	37.45	7.044	
6,745.0	6,716.1	6,780.5	6,709.1	17.5	23.1	10.83	632.1	-146.2	265.5	227.9	37.62	7.057	
6,800.0	6,771.1	6,838.0	6,766.6	17.5	23.3	10.70	633.9	-146.5	267.1	229.3	37.82	7.064	
6,840.0	6,811.1	6,879.9	6,808.4	17.5	23.4	10.64	634.9	-146.6	268.0	230.1	37.95	7.063	
6,900.0	6,871.1	6,942.6	6,871.1	17.6	23.5	10.58	635.7	-146.8	268.8	230.7	38.07	7.060	
6,935.0	6,906.1	6,979.3	6,907.8	17.6	23.6	10.56	635.9	-146.8	268.9	230.8	38.13	7.054	
7,000.0	6,971.1	7,044.7	6,973.2	17.6	23.6	10.56	635.9	-146.8	269.0	230.8	38.20	7.041	
7,030.0	7,001.1	7,074.7	7,003.2	17.6	23.6	10.56	635.9	-146.8	269.0	230.7	38.24	7.034	
7,100.0	7,071.1	7,144.7	7,073.2	17.7	23.6	10.56	635.9	-146.8	269.0	230.6	38.32	7.019	
7,125.0	7,096.1	7,169.7	7,098.2	17.7	23.6	10.56	635.9	-146.8	269.0	230.6	38.35	7.014	
7,200.0	7,171.1	7,244.7	7,173.2	17.7	23.7	10.56	635.9	-146.8	269.0	230.5	38.43	6.998	
7,220.0	7,191.1	7,264.7	7,193.2	17.7	23.7	10.56	635.9	-146.8	269.0	230.5	38.46	6.994	
7,300.0	7,271.1	7,344.7	7,273.2	17.8	23.7	10.56	635.9	-146.8	269.0	230.4	38.55	6.977	
7,315.0	7,286.1	7,359.7	7,288.2	17.8	23.7	10.56	635.9	-146.8	269.0	230.4	38.57	6.974	
7,400.0	7,371.1	7,450.9	7,379.4	17.9	23.8	10.57	635.7	-146.8	268.9	230.3	38.54	6.977	

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	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	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		
7,410.0	7,381.1	7,469.4	7,397.9	17.9	23.8	10.60	635.0	-146.8	268.5	230.1	38.38	6.995		
7,500.0	7,471.1	7,629.3	7,554.3	17.9	23.9	11.90	604.1	-147.1	251.1	215.1	36.01	6.974		
7,505.0	7,476.1	7,637.6	7,562.0	17.9	24.0	12.04	601.3	-147.1	249.5	213.7	35.84	6.961		
7,600.0	7,571.1	7,776.7	7,685.7	18.0	24.1	16.19	538.4	-147.6	207.1	174.5	32.55	6.361		
7,695.0	7,666.1	7,881.9	7,767.2	18.0	24.2	25.47	472.0	-148.2	149.0	119.4	29.55	5.042		
7,700.0	7,671.1	7,886.6	7,770.6	18.0	24.2	26.20	468.7	-148.3	145.7	116.3	29.40	4.955		
7,790.0	7,761.1	7,959.5	7,818.7	18.1	24.3	48.00	414.2	-148.7	84.5	58.1	26.44	3.197		
7,800.0	7,771.1	7,966.4	7,822.9	18.1	24.3	51.83	408.7	-148.8	78.1	52.0	26.03	2.999		
7,875.8	7,846.9	8,012.2	7,849.1	18.1	24.3	90.48	371.1	-149.1	47.0	21.8	25.18	1.867 Advise and Monitor, CC		
7,885.0	7,856.1	8,017.0	7,851.7	18.2	24.3	95.48	367.0	-149.1	47.6	21.6	25.98	1.833 Advise and Monitor, ES, SF		
7,900.0	7,871.1	8,024.7	7,855.7	18.2	24.3	103.25	360.5	-149.2	51.3	24.0	27.32	1.877 Advise and Monitor		
7,980.0	7,951.1	8,060.6	7,873.4	18.2	24.4	132.21	329.2	-149.5	101.7	72.5	29.16	3.486		
8,000.0	7,971.1	8,068.5	7,877.0	18.2	24.4	136.60	322.2	-149.5	117.7	88.6	29.09	4.048		
8,075.0	8,046.1	8,100.0	7,890.5	18.3	24.4	149.21	293.7	-149.8	181.9	152.8	29.09	6.251		
8,100.0	8,071.1	8,100.0	7,890.5	18.3	24.4	149.21	293.7	-149.8	203.9	175.4	28.55	7.143		
8,170.0	8,141.1	8,121.3	7,898.7	18.3	24.4	154.64	274.1	-149.9	267.2	238.7	28.51	9.373		
8,200.0	8,171.1	8,128.6	7,901.3	18.3	24.4	156.13	267.3	-150.0	294.8	266.3	28.48	10.350		
8,265.0	8,236.1	8,150.0	7,908.6	18.4	24.4	159.73	247.2	-150.2	355.3	326.7	28.63	12.408		
8,300.0	8,271.1	8,150.0	7,908.6	18.4	24.4	159.73	247.2	-150.2	388.0	359.5	28.49	13.618		
8,360.0	8,331.1	8,150.0	7,908.6	18.4	24.4	159.73	247.2	-150.2	444.8	416.5	28.35	15.692		
8,402.9	8,374.0	8,167.9	7,914.1	18.5	24.4	162.06	230.1	-150.3	485.4	456.8	28.53	17.011		
8,450.0	8,421.1	8,176.0	7,916.4	18.5	24.4	-14.05	222.4	-150.4	529.7	501.1	28.61	18.513		
8,455.0	8,426.0	8,176.9	7,916.6	18.5	24.4	-13.69	221.5	-150.4	534.4	505.7	28.62	18.669		
8,500.0	8,470.7	8,185.9	7,919.1	18.6	24.5	-11.03	212.8	-150.5	575.6	546.9	28.71	20.052		
8,550.0	8,519.5	8,200.0	7,922.6	18.6	24.5	-8.90	199.2	-150.6	620.1	591.3	28.83	21.505		
8,600.0	8,567.3	8,200.0	7,922.6	18.7	24.5	-7.69	199.2	-150.6	663.1	634.2	28.88	22.957		
8,645.0	8,609.0	8,220.6	7,927.1	18.7	24.5	-6.55	179.1	-150.8	700.1	671.0	29.06	24.087		
8,650.0	8,613.5	8,221.9	7,927.4	18.7	24.5	-6.46	177.8	-150.8	704.1	675.0	29.08	24.213		
8,700.0	8,658.0	8,235.5	7,929.9	18.8	24.5	-5.64	164.4	-150.9	743.4	714.1	29.25	25.417		
8,740.0	8,692.0	8,250.0	7,932.3	18.9	24.5	-5.11	150.2	-151.0	773.3	743.9	29.41	26.299		
8,750.0	8,700.3	8,250.0	7,932.3	18.9	24.5	-5.01	150.2	-151.0	780.6	751.2	29.44	26.516		
8,800.0	8,740.1	8,250.0	7,932.3	18.9	24.5	-4.59	150.2	-151.0	816.1	786.4	29.64	27.529		
8,835.0	8,766.3	8,275.4	7,935.6	19.0	24.5	-4.23	125.0	-151.2	839.0	809.2	29.83	28.128		
8,850.0	8,777.1	8,280.0	7,936.1	19.0	24.5	-4.12	120.4	-151.3	848.7	818.8	29.91	28.378		
8,900.0	8,811.1	8,300.0	7,937.8	19.0	24.5	-3.78	100.5	-151.4	879.3	849.1	30.18	29.136		
8,930.0	8,829.9	8,300.0	7,937.8	19.1	24.5	-3.65	100.5	-151.4	896.5	866.2	30.37	29.524		
8,950.0	8,841.7	8,311.9	7,938.4	19.1	24.5	-3.53	88.6	-151.6	907.5	877.0	30.47	29.779		
9,000.0	8,868.8	8,336.0	7,939.0	19.2	24.5	-3.30	64.5	-151.8	933.3	902.6	30.77	30.332		
9,025.0	8,880.9	8,337.7	7,939.0	19.2	24.5	-3.22	62.8	-151.8	945.2	914.2	30.96	30.532		
9,050.0	8,892.1	8,360.1	7,939.1	19.2	24.5	-3.12	40.4	-152.0	956.3	925.2	31.08	30.771		
9,100.0	8,911.4	8,406.3	7,939.2	19.3	24.5	-2.95	-5.8	-152.4	975.5	944.2	31.33	31.139		
9,120.0	8,918.0	8,425.2	7,939.2	19.3	24.5	-2.89	-24.7	-152.5	982.0	950.6	31.44	31.240		
9,150.0	8,926.7	8,453.9	7,939.3	19.3	24.5	-2.82	-53.4	-152.8	990.6	959.0	31.60	31.349		
9,200.0	8,937.8	8,502.7	7,939.4	19.3	24.5	-2.74	-102.2	-153.2	1,001.5	969.7	31.88	31.416		
9,215.0	8,940.3	8,517.5	7,939.5	19.3	24.5	-2.72	-117.0	-153.3	1,004.0	972.0	31.97	31.404		
9,250.0	8,944.6	8,552.2	7,939.6	19.4	24.5	-2.69	-151.7	-153.6	1,008.2	976.0	32.18	31.327		
9,302.1	8,947.0	8,604.2	7,939.7	19.4	24.5	-2.67	-203.7	-154.1	1,010.5	978.0	32.51	31.081		
9,310.0	8,947.0	8,612.1	7,939.7	19.4	24.5	-2.67	-211.6	-154.2	1,010.5	977.9	32.55	31.039		
9,400.0	8,947.1	8,702.1	7,940.0	19.4	24.5	-2.67	-301.6	-154.9	1,010.4	977.3	33.05	30.571		
9,405.0	8,947.2	8,707.1	7,940.0	19.4	24.5	-2.67	-306.6	-155.0	1,010.4	977.3	33.08	30.542		
9,500.0	8,947.3	8,802.1	7,940.3	19.5	24.5	-2.68	-401.6	-155.8	1,010.2	976.6	33.66	30.009		

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	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		Offset Wellbore Centre		Distance		Minimum Separation		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)	Factor		
9,595.0	8,947.4	8,897.1	7,940.5	19.5	24.6	-2.68	-496.6	-156.6	1,010.1	975.8	34.31	29.445	
9,600.0	8,947.4	8,902.1	7,940.5	19.5	24.6	-2.68	-501.6	-156.7	1,010.1	975.8	34.34	29.416	
9,690.0	8,947.6	8,992.1	7,940.8	19.6	24.6	-2.68	-591.6	-157.5	1,010.0	975.0	35.00	28.860	
9,700.0	8,947.6	9,002.1	7,940.8	19.6	24.6	-2.68	-601.6	-157.5	1,010.0	974.9	35.07	28.799	
9,785.0	8,947.7	9,087.1	7,941.0	19.7	24.6	-2.68	-686.6	-158.3	1,009.9	974.2	35.74	28.258	
9,800.0	8,947.7	9,102.1	7,941.1	19.7	24.6	-2.68	-701.6	-158.4	1,009.9	974.0	35.86	28.165	
9,880.0	8,947.9	9,182.1	7,941.3	19.8	24.6	-2.68	-781.6	-159.1	1,009.8	973.3	36.52	27.647	
9,900.0	8,947.9	9,202.1	7,941.3	19.8	24.6	-2.68	-801.6	-159.3	1,009.8	973.1	36.69	27.521	
9,975.0	8,948.0	9,277.1	7,941.5	19.9	24.6	-2.68	-876.6	-159.9	1,009.7	972.3	37.35	27.031	
10,000.0	8,948.0	9,302.1	7,941.6	19.9	24.6	-2.68	-901.6	-160.1	1,009.7	972.1	37.57	26.872	
10,070.0	8,948.1	9,372.1	7,941.8	20.0	24.7	-2.68	-971.6	-160.8	1,009.6	971.3	38.22	26.414	
10,100.0	8,948.2	9,402.1	7,941.9	20.1	24.7	-2.68	-1,001.6	-161.0	1,009.5	971.0	38.50	26.223	
10,165.0	8,948.3	9,467.1	7,942.0	20.2	24.7	-2.68	-1,066.6	-161.6	1,009.5	970.3	39.13	25.800	
10,200.0	8,948.3	9,502.1	7,942.1	20.2	24.7	-2.69	-1,101.6	-161.9	1,009.4	969.9	39.46	25.578	
10,260.0	8,948.4	9,562.1	7,942.3	20.3	24.7	-2.69	-1,161.6	-162.4	1,009.3	969.3	40.07	25.192	
10,300.0	8,948.5	9,602.1	7,942.4	20.4	24.7	-2.69	-1,201.6	-162.8	1,009.3	968.8	40.47	24.941	
10,355.0	8,948.6	9,657.1	7,942.5	20.5	24.7	-2.69	-1,256.6	-163.2	1,009.2	968.2	41.04	24.592	
10,400.0	8,948.6	9,702.1	7,942.7	20.6	24.8	-2.69	-1,301.6	-163.6	1,009.2	967.7	41.51	24.314	
10,450.0	8,948.7	9,752.1	7,942.8	20.7	24.8	-2.69	-1,351.6	-164.1	1,009.1	967.1	42.04	24.003	
10,500.0	8,948.8	9,802.1	7,942.9	20.9	24.8	-2.69	-1,401.6	-164.5	1,009.1	966.5	42.58	23.700	
10,545.0	8,948.8	9,847.1	7,943.1	21.0	24.8	-2.69	-1,446.6	-164.9	1,009.0	965.9	43.07	23.426	
10,600.0	8,948.9	9,902.1	7,943.2	21.1	24.8	-2.69	-1,501.6	-165.4	1,008.9	965.3	43.68	23.100	
10,640.0	8,949.0	9,942.1	7,943.3	21.3	24.9	-2.69	-1,541.6	-165.7	1,008.9	964.8	44.13	22.863	
10,700.0	8,949.1	10,002.1	7,943.5	21.4	24.9	-2.69	-1,601.6	-166.2	1,008.8	964.0	44.81	22.516	
10,735.0	8,949.1	10,037.1	7,943.6	21.6	24.9	-2.69	-1,636.6	-166.5	1,008.8	963.6	45.21	22.313	
10,800.0	8,949.2	10,102.1	7,943.7	21.8	24.9	-2.69	-1,701.6	-167.1	1,008.7	962.7	45.96	21.947	
10,830.0	8,949.3	10,132.1	7,943.8	21.9	25.0	-2.69	-1,731.6	-167.4	1,008.7	962.3	46.31	21.779	
10,900.0	8,949.4	10,202.1	7,944.0	22.2	25.0	-2.70	-1,801.6	-168.0	1,008.6	961.4	47.14	21.396	
10,925.0	8,949.4	10,227.1	7,944.1	22.3	25.0	-2.70	-1,826.6	-168.2	1,008.5	961.1	47.44	21.260	
11,000.0	8,949.5	10,302.1	7,944.3	22.6	25.1	-2.70	-1,901.6	-168.8	1,008.5	960.1	48.34	20.863	
11,020.0	8,949.5	10,322.1	7,944.3	22.7	25.1	-2.70	-1,921.6	-169.0	1,008.4	959.9	48.58	20.757	
11,100.0	8,949.7	10,402.1	7,944.5	23.0	25.2	-2.70	-2,001.6	-169.7	1,008.3	958.8	49.56	20.346	
11,115.0	8,949.7	10,417.1	7,944.6	23.1	25.2	-2.70	-2,016.6	-169.8	1,008.3	958.6	49.74	20.270	
11,200.0	8,949.8	10,502.1	7,944.8	23.5	25.3	-2.70	-2,101.5	-170.6	1,008.2	957.4	50.80	19.847	
11,210.0	8,949.8	10,512.1	7,944.8	23.6	25.3	-2.70	-2,111.5	-170.7	1,008.2	957.3	50.92	19.798	
11,300.0	8,950.0	10,602.1	7,945.1	24.0	25.4	-2.70	-2,201.5	-171.4	1,008.1	956.0	52.06	19.365	
11,305.0	8,950.0	10,607.1	7,945.1	24.1	25.4	-2.70	-2,206.5	-171.5	1,008.1	956.0	52.12	19.342	
11,400.0	8,950.1	10,702.1	7,945.3	24.6	25.5	-2.70	-2,301.5	-172.3	1,008.0	954.7	53.33	18.900	
11,495.0	8,950.2	10,797.1	7,945.6	25.1	25.7	-2.70	-2,396.5	-173.1	1,007.9	953.3	54.56	18.474	
11,500.0	8,950.3	10,802.1	7,945.6	25.1	25.7	-2.70	-2,401.5	-173.2	1,007.9	953.2	54.62	18.452	
11,590.0	8,950.4	10,892.1	7,945.9	25.6	26.0	-2.71	-2,491.5	-173.9	1,007.8	952.0	55.79	18.062	
11,600.0	8,950.4	10,902.1	7,945.9	25.7	26.0	-2.71	-2,501.5	-174.0	1,007.7	951.8	55.92	18.020	
11,685.0	8,950.5	10,987.1	7,946.1	26.2	26.2	-2.71	-2,586.5	-174.8	1,007.6	950.6	57.04	17.664	
11,700.0	8,950.5	11,002.1	7,946.2	26.3	26.3	-2.71	-2,601.5	-174.9	1,007.6	950.4	57.24	17.603	
11,780.0	8,950.7	11,082.1	7,946.4	26.7	26.6	-2.71	-2,681.5	-175.6	1,007.5	949.2	58.31	17.280	
11,800.0	8,950.7	11,102.1	7,946.4	26.9	26.7	-2.71	-2,701.5	-175.8	1,007.5	948.9	58.57	17.201	
11,875.0	8,950.8	11,177.1	7,946.6	27.3	27.0	-2.71	-2,776.5	-176.4	1,007.4	947.8	59.58	16.909	
11,900.0	8,950.8	11,202.1	7,946.7	27.5	27.1	-2.71	-2,801.5	-176.6	1,007.4	947.5	59.91	16.814	
11,970.0	8,950.9	11,272.1	7,946.9	27.9	27.5	-2.71	-2,871.5	-177.2	1,007.3	946.4	60.86	16.551	
12,000.0	8,951.0	11,302.1	7,947.0	28.1	27.6	-2.71	-2,901.5	-177.5	1,007.3	946.0	61.26	16.441	
12,065.0	8,951.1	11,367.1	7,947.1	28.5	28.0	-2.71	-2,966.5	-178.1	1,007.2	945.0	62.15	16.206	

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	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		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	
12,100.0	8,951.1	11,402.1	7,947.2	28.7	28.2	-2.71	-3,001.5	-178.4	1,007.1	944.5	62.63	16.082	
12,160.0	8,951.2	11,462.1	7,947.4	29.1	28.5	-2.71	-3,061.5	-178.9	1,007.1	943.6	63.45	15.872	
12,200.0	8,951.3	11,502.1	7,947.5	29.4	28.8	-2.71	-3,101.5	-179.2	1,007.0	943.0	64.00	15.735	
12,255.0	8,951.4	11,557.1	7,947.6	29.7	29.1	-2.71	-3,156.5	-179.7	1,007.0	942.2	64.76	15.550	
12,300.0	8,951.4	11,602.1	7,947.8	30.0	29.4	-2.72	-3,201.5	-180.1	1,006.9	941.5	65.38	15.401	
12,350.0	8,951.5	11,652.1	7,947.9	30.3	29.7	-2.72	-3,251.5	-180.5	1,006.8	940.8	66.07	15.238	
12,400.0	8,951.6	11,702.1	7,948.0	30.7	30.0	-2.72	-3,301.5	-181.0	1,006.8	940.0	66.77	15.079	
12,445.0	8,951.7	11,747.1	7,948.2	31.0	30.3	-2.72	-3,346.5	-181.4	1,006.7	939.3	67.40	14.937	
12,500.0	8,951.7	11,802.1	7,948.3	31.3	30.7	-2.72	-3,401.5	-181.8	1,006.7	938.5	68.17	14.768	
12,540.0	8,951.8	11,842.1	7,948.4	31.6	30.9	-2.72	-3,441.5	-182.2	1,006.6	937.9	68.73	14.647	
12,600.0	8,951.9	11,902.1	7,948.6	32.0	31.3	-2.72	-3,501.5	-182.7	1,006.6	937.0	69.57	14.468	
12,635.0	8,951.9	11,937.1	7,948.7	32.2	31.6	-2.72	-3,536.5	-183.0	1,006.5	936.4	70.06	14.366	
12,700.0	8,952.0	12,002.1	7,948.8	32.7	32.0	-2.72	-3,601.5	-183.6	1,006.4	935.5	70.98	14.179	
12,730.0	8,952.1	12,032.1	7,948.9	32.9	32.2	-2.72	-3,631.5	-183.8	1,006.4	935.0	71.41	14.094	
12,800.0	8,952.2	12,102.1	7,949.1	33.3	32.7	-2.72	-3,701.5	-184.5	1,006.3	933.9	72.40	13.900	
12,825.0	8,952.2	12,127.1	7,949.2	33.5	32.9	-2.72	-3,726.5	-184.7	1,006.3	933.5	72.75	13.831	
12,900.0	8,952.3	12,202.1	7,949.4	34.0	33.4	-2.72	-3,801.5	-185.3	1,006.2	932.4	73.82	13.630	
12,920.0	8,952.4	12,222.1	7,949.4	34.1	33.5	-2.72	-3,821.5	-185.5	1,006.2	932.1	74.11	13.577	
13,000.0	8,952.5	12,302.1	7,949.6	34.7	34.1	-2.73	-3,901.5	-186.2	1,006.1	930.8	75.25	13.369	
13,015.0	8,952.5	12,317.1	7,949.7	34.8	34.2	-2.73	-3,916.5	-186.3	1,006.1	930.6	75.47	13.331	
13,100.0	8,952.6	12,402.1	7,949.9	35.4	34.8	-2.73	-4,001.5	-187.1	1,006.0	929.3	76.69	13.118	
13,110.0	8,952.6	12,412.1	7,949.9	35.5	34.9	-2.73	-4,011.5	-187.1	1,005.9	929.1	76.83	13.093	
13,200.0	8,952.8	12,502.1	7,950.2	36.1	35.5	-2.73	-4,101.5	-187.9	1,005.8	927.7	78.13	12.874	
13,205.0	8,952.8	12,507.1	7,950.2	36.1	35.5	-2.73	-4,106.5	-188.0	1,005.8	927.6	78.20	12.862	
13,300.0	8,952.9	12,602.1	7,950.4	36.8	36.2	-2.73	-4,201.5	-188.8	1,005.7	926.1	79.57	12.639	
13,395.0	8,953.1	12,697.1	7,950.7	37.4	36.9	-2.73	-4,296.5	-189.6	1,005.6	924.7	80.95	12.422	
13,400.0	8,953.1	12,702.1	7,950.7	37.5	36.9	-2.73	-4,301.5	-189.7	1,005.6	924.6	81.02	12.411	
13,490.0	8,953.2	12,792.1	7,951.0	38.1	37.6	-2.73	-4,391.5	-190.4	1,005.5	923.2	82.33	12.213	
13,500.0	8,953.2	12,802.1	7,951.0	38.2	37.6	-2.73	-4,401.5	-190.5	1,005.5	923.0	82.48	12.191	
13,585.0	8,953.3	12,887.1	7,951.2	38.8	38.2	-2.73	-4,486.4	-191.3	1,005.4	921.7	83.72	12.009	
13,600.0	8,953.4	12,902.1	7,951.2	38.9	38.4	-2.73	-4,501.4	-191.4	1,005.4	921.4	83.94	11.978	
13,680.0	8,953.5	12,982.1	7,951.5	39.4	38.9	-2.74	-4,581.4	-192.1	1,005.3	920.2	85.11	11.812	
13,700.0	8,953.5	13,002.1	7,951.5	39.6	39.1	-2.74	-4,601.4	-192.3	1,005.2	919.8	85.40	11.771	
13,775.0	8,953.6	13,077.1	7,951.7	40.1	39.6	-2.74	-4,676.4	-192.9	1,005.2	918.7	86.50	11.621	
13,800.0	8,953.7	13,102.1	7,951.8	40.3	39.8	-2.74	-4,701.4	-193.1	1,005.1	918.3	86.86	11.571	
13,870.0	8,953.8	13,172.1	7,952.0	40.8	40.3	-2.74	-4,771.4	-193.7	1,005.0	917.1	87.89	11.435	
13,900.0	8,953.8	13,202.1	7,952.1	41.0	40.5	-2.74	-4,801.4	-194.0	1,005.0	916.7	88.33	11.377	
13,965.0	8,953.9	13,267.1	7,952.2	41.5	41.0	-2.74	-4,866.4	-194.6	1,004.9	915.6	89.29	11.254	
14,000.0	8,954.0	13,302.1	7,952.3	41.7	41.2	-2.74	-4,901.4	-194.9	1,004.9	915.1	89.81	11.189	
14,060.0	8,954.0	13,362.1	7,952.5	42.1	41.7	-2.74	-4,961.4	-195.4	1,004.8	914.1	90.69	11.079	
14,100.0	8,954.1	13,402.1	7,952.6	42.4	42.0	-2.74	-5,001.4	-195.7	1,004.8	913.5	91.28	11.007	
14,155.0	8,954.2	13,457.1	7,952.7	42.8	42.4	-2.74	-5,056.4	-196.2	1,004.7	912.6	92.10	10.909	
14,200.0	8,954.2	13,502.1	7,952.9	43.2	42.7	-2.74	-5,101.4	-196.6	1,004.6	911.9	92.76	10.830	
14,250.0	8,954.3	13,552.1	7,953.0	43.5	43.1	-2.74	-5,151.4	-197.0	1,004.6	911.1	93.50	10.744	
14,300.0	8,954.4	13,602.1	7,953.1	43.9	43.4	-2.74	-5,201.4	-197.5	1,004.5	910.3	94.24	10.659	
14,345.0	8,954.5	13,647.1	7,953.2	44.2	43.8	-2.74	-5,246.4	-197.9	1,004.5	909.6	94.91	10.583	
14,400.0	8,954.5	13,702.1	7,953.4	44.6	44.2	-2.75	-5,301.4	-198.3	1,004.4	908.7	95.73	10.492	
14,440.0	8,954.6	13,742.1	7,953.5	44.9	44.5	-2.75	-5,341.4	-198.7	1,004.4	908.0	96.32	10.427	
14,500.0	8,954.7	13,802.1	7,953.7	45.3	44.9	-2.75	-5,401.4	-199.2	1,004.3	907.1	97.22	10.330	
14,535.0	8,954.7	13,837.1	7,953.8	45.6	45.2	-2.75	-5,436.4	-199.5	1,004.2	906.5	97.74	10.275	
14,600.0	8,954.8	13,902.1	7,953.9	46.0	45.6	-2.75	-5,501.4	-200.1	1,004.2	905.5	98.71	10.173	

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	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		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	
14,630.0	8,954.9	13,932.1	7,954.0	46.3	45.9	-2.75	-5,531.4	-200.3	1,004.1	905.0	99.16	10.127	
14,700.0	8,955.0	14,002.1	7,954.2	46.8	46.4	-2.75	-5,601.4	-200.9	1,004.0	903.8	100.20	10.020	
14,725.0	8,955.0	14,027.1	7,954.3	46.9	46.6	-2.75	-5,626.4	-201.2	1,004.0	903.4	100.57	9.983	
14,800.0	8,955.1	14,102.1	7,954.5	47.5	47.1	-2.75	-5,701.4	-201.8	1,003.9	902.2	101.70	9.872	
14,820.0	8,955.2	14,122.1	7,954.5	47.6	47.3	-2.75	-5,721.4	-202.0	1,003.9	901.9	101.99	9.843	
14,900.0	8,955.3	14,202.1	7,954.7	48.2	47.9	-2.75	-5,801.4	-202.7	1,003.8	900.6	103.19	9.728	
14,915.0	8,955.3	14,217.1	7,954.8	48.3	48.0	-2.75	-5,816.4	-202.8	1,003.8	900.4	103.42	9.706	
15,000.0	8,955.4	14,302.1	7,955.0	48.9	48.6	-2.75	-5,901.4	-203.6	1,003.7	899.0	104.69	9.587	
15,010.0	8,955.4	14,312.1	7,955.0	49.0	48.7	-2.75	-5,911.4	-203.6	1,003.7	898.8	104.84	9.573	
15,100.0	8,955.6	14,402.1	7,955.3	49.7	49.3	-2.76	-6,001.4	-204.4	1,003.6	897.4	106.19	9.450	
15,105.0	8,955.6	14,407.1	7,955.3	49.7	49.4	-2.76	-6,006.4	-204.5	1,003.6	897.3	106.27	9.444	
15,200.0	8,955.7	14,502.1	7,955.5	50.4	50.1	-2.76	-6,101.4	-205.3	1,003.5	895.8	107.70	9.317	
15,295.0	8,955.9	14,597.1	7,955.8	51.1	50.8	-2.76	-6,196.4	-206.1	1,003.3	894.2	109.13	9.194	
15,300.0	8,955.9	14,602.1	7,955.8	51.1	50.8	-2.76	-6,201.4	-206.2	1,003.3	894.1	109.20	9.188	
15,390.0	8,956.0	14,692.1	7,956.1	51.8	51.5	-2.76	-6,291.4	-206.9	1,003.2	892.7	110.56	9.074	
15,400.0	8,956.0	14,702.1	7,956.1	51.9	51.6	-2.76	-6,301.4	-207.0	1,003.2	892.5	110.71	9.062	
15,485.0	8,956.1	14,787.1	7,956.3	52.5	52.2	-2.76	-6,386.4	-207.8	1,003.1	891.1	111.99	8.957	
15,500.0	8,956.2	14,802.1	7,956.3	52.6	52.3	-2.76	-6,401.4	-207.9	1,003.1	890.9	112.22	8.939	
15,580.0	8,956.3	14,882.1	7,956.6	53.2	52.9	-2.76	-6,481.4	-208.6	1,003.0	889.6	113.43	8.843	
15,600.0	8,956.3	14,902.1	7,956.6	53.3	53.0	-2.76	-6,501.4	-208.8	1,003.0	889.2	113.73	8.819	
15,675.0	8,956.4	14,977.1	7,956.8	53.9	53.6	-2.76	-6,576.4	-209.4	1,002.9	888.0	114.86	8.731	
15,700.0	8,956.5	15,002.1	7,956.9	54.1	53.8	-2.76	-6,601.4	-209.6	1,002.9	887.6	115.24	8.702	
15,770.0	8,956.6	15,072.1	7,957.1	54.6	54.3	-2.77	-6,671.4	-210.2	1,002.8	886.5	116.30	8.622	
15,800.0	8,956.6	15,102.1	7,957.2	54.8	54.5	-2.77	-6,701.4	-210.5	1,002.7	886.0	116.75	8.588	
15,865.0	8,956.7	15,167.1	7,957.3	55.3	55.0	-2.77	-6,766.4	-211.1	1,002.7	884.9	117.74	8.516	
15,900.0	8,956.8	15,202.1	7,957.4	55.6	55.3	-2.77	-6,801.4	-211.4	1,002.6	884.3	118.27	8.477	
15,960.0	8,956.9	15,262.1	7,957.6	56.0	55.7	-2.77	-6,861.3	-211.9	1,002.5	883.4	119.18	8.412	
16,000.0	8,956.9	15,302.1	7,957.7	56.3	56.0	-2.77	-6,901.3	-212.2	1,002.5	882.7	119.78	8.369	
16,055.0	8,957.0	15,357.1	7,957.8	56.7	56.4	-2.77	-6,956.3	-212.7	1,002.4	881.8	120.62	8.311	
16,100.0	8,957.1	15,402.1	7,958.0	57.0	56.8	-2.77	-7,001.3	-213.1	1,002.4	881.1	121.30	8.263	
16,150.0	8,957.1	15,452.1	7,958.1	57.4	57.2	-2.77	-7,051.3	-213.5	1,002.3	880.3	122.06	8.212	
16,200.0	8,957.2	15,502.1	7,958.2	57.8	57.5	-2.77	-7,101.3	-214.0	1,002.3	879.4	122.82	8.160	
16,245.0	8,957.3	15,547.1	7,958.3	58.1	57.9	-2.77	-7,146.3	-214.4	1,002.2	878.7	123.51	8.115	
16,300.0	8,957.4	15,602.1	7,958.5	58.5	58.3	-2.77	-7,201.3	-214.8	1,002.1	877.8	124.34	8.060	
16,340.0	8,957.4	15,642.1	7,958.6	58.8	58.6	-2.77	-7,241.3	-215.2	1,002.1	877.1	124.95	8.020	
16,400.0	8,957.5	15,702.1	7,958.8	59.3	59.0	-2.77	-7,301.3	-215.7	1,002.0	876.2	125.86	7.961	
16,435.0	8,957.6	15,737.1	7,958.9	59.5	59.3	-2.78	-7,336.3	-216.0	1,002.0	875.6	126.40	7.927	
16,500.0	8,957.7	15,802.1	7,959.0	60.0	59.8	-2.78	-7,401.3	-216.6	1,001.9	874.5	127.39	7.865	
16,530.0	8,957.7	15,832.1	7,959.1	60.2	60.0	-2.78	-7,431.3	-216.8	1,001.9	874.0	127.84	7.837	
16,600.0	8,957.8	15,902.1	7,959.3	60.7	60.5	-2.78	-7,501.3	-217.4	1,001.8	872.9	128.91	7.771	
16,625.0	8,957.8	15,927.1	7,959.4	60.9	60.7	-2.78	-7,526.3	-217.7	1,001.8	872.5	129.29	7.748	
16,700.0	8,957.9	16,002.1	7,959.6	61.5	61.3	-2.78	-7,601.3	-218.3	1,001.7	871.2	130.43	7.679	
16,720.0	8,958.0	16,022.1	7,959.6	61.6	61.4	-2.78	-7,621.3	-218.5	1,001.6	870.9	130.74	7.661	
16,800.0	8,958.1	16,102.1	7,959.8	62.2	62.0	-2.78	-7,701.3	-219.2	1,001.5	869.6	131.96	7.590	
16,815.0	8,958.1	16,117.1	7,959.9	62.3	62.1	-2.78	-7,716.3	-219.3	1,001.5	869.3	132.19	7.576	
16,900.0	8,958.2	16,202.1	7,960.1	63.0	62.8	-2.78	-7,801.3	-220.0	1,001.4	867.9	133.49	7.502	
16,910.0	8,958.3	16,212.1	7,960.1	63.0	62.8	-2.78	-7,811.3	-220.1	1,001.4	867.8	133.64	7.493	
17,000.0	8,958.4	16,302.1	7,960.4	63.7	63.5	-2.78	-7,901.3	-220.9	1,001.3	866.3	135.02	7.416	
17,005.0	8,958.4	16,307.1	7,960.4	63.7	63.6	-2.78	-7,906.3	-221.0	1,001.3	866.2	135.09	7.412	
17,100.0	8,958.5	16,402.1	7,960.6	64.5	64.3	-2.78	-8,001.3	-221.8	1,001.2	864.6	136.54	7.332	
17,195.0	8,958.7	16,497.1	7,960.9	65.2	65.0	-2.79	-8,096.3	-222.6	1,001.1	863.1	138.00	7.254	

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	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		Offset Wellbore Centre		Distance		Minimum Separation		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation Factor		
17,200.0	8,958.7	16,502.1	7,960.9	65.2	65.0	-2.79	-8,101.3	-222.6	1,001.1	863.0	138.07	7.250	
17,290.0	8,958.8	16,592.1	7,961.1	65.9	65.7	-2.79	-8,191.3	-223.4	1,001.0	861.5	139.45	7.178	
17,300.0	8,958.8	16,602.1	7,961.2	65.9	65.8	-2.79	-8,201.3	-223.5	1,000.9	861.3	139.60	7.170	
17,385.0	8,959.0	16,687.1	7,961.4	66.6	66.4	-2.79	-8,286.3	-224.3	1,000.8	859.9	140.91	7.103	
17,400.0	8,959.0	16,702.1	7,961.4	66.7	66.5	-2.79	-8,301.3	-224.4	1,000.8	859.7	141.14	7.091	
17,480.0	8,959.1	16,782.1	7,961.7	67.3	67.1	-2.79	-8,381.3	-225.1	1,000.7	858.4	142.36	7.029	
17,500.0	8,959.1	16,802.1	7,961.7	67.4	67.3	-2.79	-8,401.3	-225.3	1,000.7	858.0	142.67	7.014	
17,575.0	8,959.2	16,877.1	7,961.9	68.0	67.8	-2.79	-8,476.3	-225.9	1,000.6	856.8	143.82	6.958	
17,600.0	8,959.3	16,902.1	7,962.0	68.2	68.0	-2.79	-8,501.3	-226.1	1,000.6	856.4	144.20	6.939	
17,670.0	8,959.4	16,972.1	7,962.2	68.7	68.6	-2.79	-8,571.3	-226.7	1,000.5	855.2	145.28	6.887	
17,700.0	8,959.4	17,002.1	7,962.2	68.9	68.8	-2.79	-8,601.3	-227.0	1,000.5	854.7	145.74	6.865	
17,765.0	8,959.5	17,067.1	7,962.4	69.4	69.3	-2.79	-8,666.3	-227.6	1,000.4	853.7	146.73	6.818	
17,800.0	8,959.6	17,102.1	7,962.5	69.7	69.5	-2.79	-8,701.3	-227.9	1,000.4	853.1	147.27	6.793	
17,860.0	8,959.7	17,162.1	7,962.7	70.1	70.0	-2.80	-8,761.3	-228.4	1,000.3	852.1	148.19	6.750	
17,900.0	8,959.7	17,202.1	7,962.8	70.4	70.3	-2.80	-8,801.3	-228.7	1,000.2	851.4	148.81	6.722	
17,955.0	8,959.8	17,257.1	7,962.9	70.8	70.7	-2.80	-8,856.3	-229.2	1,000.2	850.5	149.65	6.683	
18,000.0	8,959.9	17,302.1	7,963.1	71.2	71.0	-2.80	-8,901.3	-229.6	1,000.1	849.8	150.34	6.652	
18,050.0	8,959.9	17,352.1	7,963.2	71.6	71.4	-2.80	-8,951.3	-230.0	1,000.1	848.9	151.11	6.618	
18,100.0	8,960.0	17,402.1	7,963.3	71.9	71.8	-2.80	-9,001.3	-230.5	1,000.0	848.1	151.88	6.584	
18,145.0	8,960.1	17,447.1	7,963.4	72.3	72.1	-2.80	-9,046.3	-230.9	999.9	847.4	152.57	6.554	
18,200.0	8,960.2	17,502.1	7,963.6	72.7	72.5	-2.80	-9,101.3	-231.3	999.9	846.5	153.42	6.517	
18,240.0	8,960.2	17,542.1	7,963.7	73.0	72.9	-2.80	-9,141.3	-231.7	999.8	845.8	154.03	6.491	
18,300.0	8,960.3	17,602.1	7,963.9	73.4	73.3	-2.80	-9,201.3	-232.2	999.8	844.8	154.95	6.452	
18,335.0	8,960.4	17,637.1	7,964.0	73.7	73.6	-2.80	-9,236.3	-232.5	999.7	844.2	155.49	6.429	
18,400.0	8,960.5	17,702.1	7,964.1	74.2	74.1	-2.80	-9,301.2	-233.1	999.6	843.1	156.49	6.388	
18,430.0	8,960.5	17,732.1	7,964.2	74.4	74.3	-2.80	-9,331.2	-233.3	999.6	842.6	156.95	6.369	
18,500.0	8,960.6	17,802.1	7,964.4	74.9	74.8	-2.81	-9,401.2	-233.9	999.5	841.5	158.03	6.325	
18,525.0	8,960.6	17,827.1	7,964.5	75.1	75.0	-2.81	-9,426.2	-234.2	999.5	841.1	158.42	6.309	
18,600.0	8,960.8	17,902.1	7,964.7	75.7	75.6	-2.81	-9,501.2	-234.8	999.4	839.8	159.57	6.263	
18,620.0	8,960.8	17,922.1	7,964.7	75.8	75.7	-2.81	-9,521.2	-235.0	999.4	839.5	159.88	6.251	
18,700.0	8,960.9	18,002.1	7,964.9	76.4	76.3	-2.81	-9,601.2	-235.7	999.3	838.2	161.11	6.202	
18,715.0	8,960.9	18,017.1	7,965.0	76.5	76.4	-2.81	-9,616.2	-235.8	999.3	837.9	161.34	6.193	
18,800.0	8,961.1	18,102.1	7,965.2	77.2	77.1	-2.81	-9,701.2	-236.5	999.2	836.5	162.65	6.143	
18,810.0	8,961.1	18,112.1	7,965.2	77.3	77.2	-2.81	-9,711.2	-236.6	999.1	836.3	162.81	6.137	
18,900.0	8,961.2	18,202.1	7,965.5	77.9	77.8	-2.81	-9,801.2	-237.4	999.0	834.8	164.20	6.084	
18,905.0	8,961.2	18,207.1	7,965.5	78.0	77.9	-2.81	-9,806.2	-237.4	999.0	834.8	164.27	6.082	
19,000.0	8,961.3	18,302.1	7,965.7	78.7	78.6	-2.81	-9,901.2	-238.3	998.9	833.2	165.74	6.027	
19,095.0	8,961.5	18,397.1	7,966.0	79.4	79.3	-2.81	-9,996.2	-239.1	998.8	831.6	167.20	5.974	
19,100.0	8,961.5	18,402.1	7,966.0	79.4	79.3	-2.81	-10,001.2	-239.1	998.8	831.5	167.28	5.971	
19,190.0	8,961.6	18,492.1	7,966.2	80.1	80.0	-2.82	-10,091.2	-239.9	998.7	830.0	168.67	5.921	
19,200.0	8,961.6	18,502.1	7,966.3	80.2	80.1	-2.82	-10,101.2	-240.0	998.7	829.9	168.82	5.916	
19,285.0	8,961.8	18,587.1	7,966.5	80.8	80.7	-2.82	-10,186.2	-240.7	998.6	828.4	170.14	5.869	
19,300.0	8,961.8	18,602.1	7,966.5	80.9	80.9	-2.82	-10,201.2	-240.9	998.6	828.2	170.37	5.861	
19,380.0	8,961.9	18,682.1	7,966.8	81.5	81.5	-2.82	-10,281.2	-241.6	998.5	826.9	171.60	5.818	
19,400.0	8,961.9	18,702.1	7,966.8	81.7	81.6	-2.82	-10,301.2	-241.7	998.4	826.5	171.91	5.808	
19,475.0	8,962.1	18,777.1	7,967.0	82.3	82.2	-2.82	-10,376.2	-242.4	998.4	825.3	173.07	5.769	
19,500.0	8,962.1	18,802.1	7,967.1	82.4	82.4	-2.82	-10,401.2	-242.6	998.3	824.9	173.46	5.756	
19,570.0	8,962.2	18,872.1	7,967.3	83.0	82.9	-2.82	-10,471.2	-243.2	998.2	823.7	174.54	5.719	
19,600.0	8,962.2	18,902.1	7,967.3	83.2	83.1	-2.82	-10,501.2	-243.5	998.2	823.2	175.00	5.704	
19,665.0	8,962.3	18,967.1	7,967.5	83.7	83.6	-2.82	-10,566.2	-244.0	998.1	822.1	176.01	5.671	
19,700.0	8,962.4	19,002.1	7,967.6	83.9	83.9	-2.82	-10,601.2	-244.4	998.1	821.5	176.55	5.653	

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	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	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
19,760.0	8,962.5	19,062.1	7,967.8	84.4	84.3	-2.82	-10,661.2	-244.9	998.0	820.5	177.47	5.623
19,800.0	8,962.5	19,102.1	7,967.9	84.7	84.6	-2.82	-10,701.2	-245.2	998.0	819.9	178.09	5.604
19,855.0	8,962.6	19,157.1	7,968.0	85.1	85.1	-2.82	-10,756.2	-245.7	997.9	819.0	178.94	5.577
19,900.0	8,962.7	19,202.1	7,968.1	85.5	85.4	-2.83	-10,801.2	-246.1	997.8	818.2	179.64	5.555
19,950.0	8,962.8	19,252.1	7,968.3	85.8	85.8	-2.83	-10,851.2	-246.5	997.8	817.4	180.41	5.531
20,000.0	8,962.8	19,302.1	7,968.4	86.2	86.2	-2.83	-10,901.2	-247.0	997.7	816.5	181.19	5.507
20,045.0	8,962.9	19,347.1	7,968.5	86.5	86.5	-2.83	-10,946.2	-247.3	997.7	815.8	181.88	5.485
20,100.0	8,963.0	19,402.1	7,968.7	87.0	86.9	-2.83	-11,001.2	-247.8	997.6	814.9	182.73	5.459
20,140.0	8,963.0	19,442.1	7,968.8	87.3	87.2	-2.83	-11,041.2	-248.2	997.6	814.2	183.35	5.441
20,200.0	8,963.1	19,502.1	7,969.0	87.7	87.7	-2.83	-11,101.2	-248.7	997.5	813.2	184.28	5.413
20,235.0	8,963.2	19,537.1	7,969.0	88.0	87.9	-2.83	-11,136.2	-249.0	997.4	812.6	184.82	5.397
20,300.0	8,963.3	19,602.1	7,969.2	88.5	88.4	-2.83	-11,201.2	-249.6	997.4	811.5	185.83	5.367
20,330.0	8,963.3	19,632.1	7,969.3	88.7	88.6	-2.83	-11,231.2	-249.8	997.3	811.0	186.29	5.354
20,400.0	8,963.4	19,702.1	7,969.5	89.2	89.2	-2.83	-11,301.2	-250.4	997.3	809.9	187.38	5.322
20,425.0	8,963.5	19,727.1	7,969.6	89.4	89.4	-2.83	-11,326.2	-250.6	997.2	809.5	187.76	5.311
20,500.0	8,963.6	19,802.1	7,969.8	90.0	89.9	-2.83	-11,401.2	-251.3	997.1	808.2	188.92	5.278
20,520.0	8,963.6	19,822.1	7,969.8	90.1	90.1	-2.83	-11,421.2	-251.5	997.1	807.9	189.23	5.269
20,600.0	8,963.7	19,902.1	7,970.0	90.7	90.7	-2.84	-11,501.2	-252.2	997.0	806.5	190.47	5.234
20,615.0	8,963.7	19,917.1	7,970.1	90.8	90.8	-2.84	-11,516.2	-252.3	997.0	806.3	190.71	5.228
20,700.0	8,963.9	20,002.1	7,970.3	91.5	91.5	-2.84	-11,601.2	-253.0	996.9	804.9	192.02	5.192
20,710.0	8,963.9	20,012.1	7,970.3	91.6	91.5	-2.84	-11,611.2	-253.1	996.9	804.7	192.18	5.187
20,800.0	8,964.0	20,102.1	7,970.6	92.2	92.2	-2.84	-11,701.1	-253.9	996.8	803.2	193.57	5.149
20,805.0	8,964.0	20,107.1	7,970.6	92.3	92.2	-2.84	-11,706.1	-253.9	996.8	803.1	193.65	5.147
20,900.0	8,964.2	20,202.1	7,970.8	93.0	93.0	-2.84	-11,801.1	-254.8	996.7	801.5	195.12	5.108
20,995.0	8,964.3	20,297.1	7,971.1	93.7	93.7	-2.84	-11,896.1	-255.6	996.5	799.9	196.59	5.069
21,000.0	8,964.3	20,302.1	7,971.1	93.8	93.7	-2.84	-11,901.1	-255.6	996.5	799.9	196.67	5.067
21,090.0	8,964.4	20,392.1	7,971.3	94.4	94.4	-2.84	-11,991.1	-256.4	996.4	798.4	198.07	5.031
21,100.0	8,964.5	20,402.1	7,971.4	94.5	94.5	-2.84	-12,001.1	-256.5	996.4	798.2	198.22	5.027
21,185.0	8,964.6	20,487.1	7,971.6	95.2	95.1	-2.84	-12,086.1	-257.2	996.3	796.8	199.54	4.993
21,200.0	8,964.6	20,502.1	7,971.6	95.3	95.2	-2.84	-12,101.1	-257.4	996.3	796.5	199.77	4.987
21,280.0	8,964.7	20,582.1	7,971.9	95.9	95.9	-2.85	-12,181.1	-258.1	996.2	795.2	201.01	4.956
21,300.0	8,964.8	20,602.1	7,971.9	96.0	96.0	-2.85	-12,201.1	-258.2	996.2	794.9	201.32	4.948
21,375.0	8,964.9	20,677.1	7,972.1	96.6	96.6	-2.85	-12,276.1	-258.9	996.1	793.6	202.49	4.919
21,400.0	8,964.9	20,702.1	7,972.2	96.8	96.8	-2.85	-12,301.1	-259.1	996.1	793.2	202.88	4.910
21,470.0	8,965.0	20,772.1	7,972.4	97.3	97.3	-2.85	-12,371.1	-259.7	996.0	792.0	203.96	4.883
21,500.0	8,965.0	20,802.1	7,972.4	97.5	97.5	-2.85	-12,401.1	-260.0	995.9	791.5	204.43	4.872
21,565.0	8,965.1	20,867.1	7,972.6	98.0	98.0	-2.85	-12,466.1	-260.5	995.9	790.4	205.44	4.848
21,600.0	8,965.2	20,902.1	7,972.7	98.3	98.3	-2.85	-12,501.1	-260.8	995.8	789.8	205.98	4.835
21,660.0	8,965.3	20,962.1	7,972.9	98.7	98.7	-2.85	-12,561.1	-261.4	995.8	788.8	206.91	4.812
21,700.0	8,965.3	21,002.1	7,973.0	99.0	99.0	-2.85	-12,601.1	-261.7	995.7	788.2	207.53	4.798
21,755.0	8,965.4	21,057.1	7,973.1	99.5	99.5	-2.85	-12,656.1	-262.2	995.6	787.3	208.39	4.778
21,800.0	8,965.5	21,102.1	7,973.2	99.8	99.8	-2.85	-12,701.1	-262.6	995.6	786.5	209.08	4.762
21,850.0	8,965.6	21,152.1	7,973.4	100.2	100.2	-2.85	-12,751.1	-263.0	995.5	785.7	209.86	4.744
21,900.0	8,965.6	21,202.1	7,973.5	100.6	100.6	-2.85	-12,801.1	-263.4	995.5	784.8	210.64	4.726
21,945.0	8,965.7	21,247.1	7,973.6	100.9	100.9	-2.86	-12,846.1	-263.8	995.4	784.1	211.34	4.710
22,000.0	8,965.8	21,302.1	7,973.8	101.3	101.3	-2.86	-12,901.1	-264.3	995.3	783.2	212.19	4.691
22,040.0	8,965.8	21,342.1	7,973.9	101.6	101.6	-2.86	-12,941.1	-264.7	995.3	782.5	212.81	4.677
22,100.0	8,965.9	21,402.1	7,974.1	102.1	102.1	-2.86	-13,001.1	-265.2	995.2	781.5	213.74	4.656
22,135.0	8,966.0	21,437.1	7,974.1	102.3	102.3	-2.86	-13,036.1	-265.5	995.2	780.9	214.29	4.644
22,200.0	8,966.1	21,502.1	7,974.3	102.8	102.8	-2.86	-13,101.1	-266.1	995.1	779.8	215.30	4.622
22,230.0	8,966.1	21,532.1	7,974.4	103.1	103.1	-2.86	-13,131.1	-266.3	995.1	779.3	215.76	4.612

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	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:									
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
22,300.0	8,966.2	21,602.1	7,974.6	103.6	103.6	-2.86	-13,201.1	-266.9	995.0	778.1	216.85	4.588	
22,325.0	8,966.3	21,627.1	7,974.7	103.8	103.8	-2.86	-13,226.1	-267.1	995.0	777.7	217.24	4.580	
22,400.0	8,966.4	21,702.1	7,974.9	104.3	104.4	-2.86	-13,301.1	-267.8	994.9	776.5	218.40	4.555	
22,420.0	8,966.4	21,722.1	7,974.9	104.5	104.5	-2.86	-13,321.1	-268.0	994.8	776.1	218.71	4.549	
22,500.0	8,966.5	21,802.1	7,975.1	105.1	105.1	-2.86	-13,401.1	-268.7	994.8	774.8	219.96	4.522	
22,515.0	8,966.6	21,817.1	7,975.2	105.2	105.2	-2.86	-13,416.1	-268.8	994.7	774.5	220.19	4.518	
22,600.0	8,966.7	21,902.1	7,975.4	105.9	105.9	-2.87	-13,501.1	-269.5	994.6	773.1	221.51	4.490	
22,610.0	8,966.7	21,912.1	7,975.4	105.9	105.9	-2.87	-13,511.1	-269.6	994.6	773.0	221.67	4.487	
22,700.0	8,966.8	22,002.1	7,975.7	106.6	106.6	-2.87	-13,601.1	-270.4	994.5	771.4	223.07	4.458	
22,705.0	8,966.8	22,007.1	7,975.7	106.6	106.7	-2.87	-13,606.1	-270.4	994.5	771.4	223.14	4.457	
22,800.0	8,967.0	22,102.1	7,975.9	107.4	107.4	-2.87	-13,701.1	-271.3	994.4	769.8	224.62	4.427	
22,895.0	8,967.1	22,197.1	7,976.2	108.1	108.1	-2.87	-13,796.1	-272.1	994.3	768.2	226.10	4.398	
22,900.0	8,967.1	22,202.1	7,976.2	108.1	108.1	-2.87	-13,801.1	-272.1	994.3	768.1	226.18	4.396	
22,990.0	8,967.3	22,292.1	7,976.4	108.8	108.8	-2.87	-13,891.1	-272.9	994.2	766.6	227.58	4.368	
23,000.0	8,967.3	22,302.1	7,976.5	108.9	108.9	-2.87	-13,901.1	-273.0	994.2	766.4	227.73	4.365	
23,085.0	8,967.4	22,387.1	7,976.7	109.5	109.6	-2.87	-13,986.1	-273.7	994.1	765.0	229.05	4.340	
23,100.0	8,967.4	22,402.1	7,976.7	109.6	109.7	-2.87	-14,001.0	-273.9	994.0	764.7	229.29	4.335	
23,180.0	8,967.5	22,482.1	7,976.9	110.2	110.3	-2.87	-14,081.0	-274.6	993.9	763.4	230.53	4.312	
23,200.0	8,967.6	22,502.1	7,977.0	110.4	110.4	-2.87	-14,101.0	-274.7	993.9	763.1	230.84	4.306	
23,275.0	8,967.7	22,577.1	7,977.2	111.0	111.0	-2.88	-14,176.0	-275.4	993.8	761.8	232.01	4.284	
23,300.0	8,967.7	22,602.1	7,977.3	111.2	111.2	-2.88	-14,201.0	-275.6	993.8	761.4	232.40	4.276	
23,370.0	8,967.8	22,672.1	7,977.5	111.7	111.7	-2.88	-14,271.0	-276.2	993.7	760.2	233.49	4.256	
23,400.0	8,967.9	22,702.1	7,977.5	111.9	111.9	-2.88	-14,301.0	-276.5	993.7	759.7	233.95	4.247	
23,465.0	8,968.0	22,767.1	7,977.7	112.4	112.4	-2.88	-14,366.0	-277.0	993.6	758.6	234.97	4.229	
23,500.0	8,968.0	22,802.1	7,977.8	112.7	112.7	-2.88	-14,401.0	-277.3	993.6	758.0	235.51	4.219	
23,560.0	8,968.1	22,862.1	7,978.0	113.1	113.2	-2.88	-14,461.0	-277.9	993.5	757.0	236.44	4.202	
23,600.0	8,968.2	22,902.1	7,978.1	113.4	113.5	-2.88	-14,501.0	-278.2	993.4	756.4	237.07	4.191	
23,655.0	8,968.2	22,957.1	7,978.2	113.8	113.9	-2.88	-14,556.0	-278.7	993.4	755.5	237.92	4.175	
23,700.0	8,968.3	23,002.1	7,978.3	114.2	114.2	-2.88	-14,601.0	-279.1	993.3	754.7	238.62	4.163	
23,750.0	8,968.4	23,052.1	7,978.5	114.6	114.6	-2.88	-14,651.0	-279.5	993.3	753.9	239.40	4.149	
23,800.0	8,968.5	23,102.1	7,978.6	114.9	115.0	-2.88	-14,701.0	-279.9	993.2	753.0	240.18	4.135	
23,845.0	8,968.5	23,147.1	7,978.7	115.3	115.3	-2.88	-14,746.0	-280.3	993.1	752.3	240.88	4.123	
23,900.0	8,968.6	23,202.1	7,978.9	115.7	115.7	-2.88	-14,801.0	-280.8	993.1	751.3	241.74	4.108	
23,940.0	8,968.7	23,242.1	7,979.0	116.0	116.1	-2.88	-14,841.0	-281.2	993.0	750.7	242.36	4.097	
24,000.0	8,968.7	23,302.1	7,979.1	116.5	116.5	-2.89	-14,901.0	-281.7	993.0	749.7	243.29	4.081	
24,035.0	8,968.8	23,337.1	7,979.2	116.7	116.8	-2.89	-14,936.0	-282.0	992.9	749.1	243.84	4.072	
24,040.2	8,968.8	23,342.3	7,979.3	116.8	116.8	-2.89	-14,941.2	-282.0	992.9	749.0	243.92	4.071	
24,100.0	8,968.9	23,402.1	7,979.4	117.2	117.3	-2.89	-15,001.0	-282.5	992.8	748.0	244.85	4.055	
24,130.0	8,968.9	23,432.1	7,979.5	117.4	117.5	-2.89	-15,031.0	-282.8	992.8	747.5	245.32	4.047	
24,170.2	8,969.0	23,472.3	7,979.6	117.8	117.8	-2.89	-15,071.2	-283.2	992.8	746.8	245.94	4.037	
24,170.7	8,969.0	23,472.9	7,979.6	117.8	117.8	-2.89	-15,071.7	-283.2	992.8	746.8	245.95	4.036	

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS										Offset Well Error:	3.0 usft	
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				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)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	3.0	3.0	89.05	1.0	60.0	60.0					
95.0	95.0	93.6	93.6	3.0	3.0	89.05	1.0	60.0	60.0	54.0	6.04	9.943		
100.0	100.0	98.6	98.6	3.0	3.0	89.05	1.0	60.0	60.0	54.0	6.04	9.935		
190.0	190.0	188.6	188.6	3.1	3.1	89.05	1.0	60.0	60.0	53.8	6.25	9.601		
200.0	200.0	198.6	198.6	3.1	3.1	89.05	1.0	60.0	60.0	53.7	6.28	9.550		
285.0	285.0	283.6	283.6	3.3	3.2	89.05	1.0	60.0	60.0	53.5	6.48	9.259		
300.0	300.0	298.6	298.6	3.3	3.3	89.05	1.0	60.0	60.0	53.5	6.52	9.203		
380.0	380.0	378.6	378.6	3.4	3.4	89.05	1.0	60.0	60.0	53.3	6.70	8.956		
400.0	400.0	398.6	398.6	3.4	3.4	89.05	1.0	60.0	60.0	53.3	6.75	8.892		
475.0	475.0	473.6	473.6	3.5	3.5	89.05	1.0	60.0	60.0	53.1	6.91	8.682		
500.0	500.0	498.6	498.6	3.5	3.5	89.05	1.0	60.0	60.0	53.0	6.97	8.611		
570.0	570.0	568.6	568.6	3.6	3.6	89.05	1.0	60.0	60.0	52.9	7.12	8.432		
600.0	600.0	598.6	598.6	3.6	3.6	89.05	1.0	60.0	60.0	52.8	7.18	8.354		
665.0	665.0	663.6	663.6	3.7	3.7	89.05	1.0	60.0	60.0	52.7	7.32	8.202		
700.0	700.0	698.6	698.6	3.8	3.8	89.05	1.0	60.0	60.0	52.6	7.39	8.120		
760.0	760.0	758.6	758.6	3.8	3.8	89.05	1.0	60.0	60.0	52.5	7.51	7.990		
800.0	800.0	798.6	798.6	3.9	3.9	89.05	1.0	60.0	60.0	52.4	7.59	7.904		
855.0	855.0	853.6	853.6	4.0	3.9	89.05	1.0	60.0	60.0	52.3	7.70	7.794		
900.0	900.0	898.6	898.6	4.0	4.0	89.05	1.0	60.0	60.0	52.2	7.79	7.704		
950.0	950.0	948.6	948.6	4.1	4.1	89.05	1.0	60.0	60.0	52.1	7.88	7.611		
1,000.0	1,000.0	998.6	998.6	4.1	4.1	89.05	1.0	60.0	60.0	52.0	7.98	7.519		
1,045.0	1,045.0	1,043.6	1,043.6	4.2	4.2	89.05	1.0	60.0	60.0	51.9	8.06	7.441		
1,100.0	1,100.0	1,098.6	1,098.6	4.2	4.2	89.05	1.0	60.0	60.0	51.8	8.17	7.347		
1,140.0	1,140.0	1,138.6	1,138.6	4.3	4.3	89.05	1.0	60.0	60.0	51.8	8.24	7.282		
1,200.0	1,200.0	1,198.6	1,198.6	4.4	4.4	89.05	1.0	60.0	60.0	51.7	8.35	7.185		
1,235.0	1,235.0	1,233.6	1,233.6	4.4	4.4	89.05	1.0	60.0	60.0	51.6	8.41	7.132		
1,300.0	1,300.0	1,298.6	1,298.6	4.5	4.5	89.05	1.0	60.0	60.0	51.5	8.53	7.034		
1,330.0	1,330.0	1,328.6	1,328.6	4.5	4.5	89.05	1.0	60.0	60.0	51.4	8.58	6.992		
1,400.0	1,400.0	1,398.6	1,398.6	4.6	4.6	89.05	1.0	60.0	60.0	51.3	8.71	6.893		
1,425.0	1,425.0	1,423.6	1,423.6	4.6	4.6	89.05	1.0	60.0	60.0	51.3	8.75	6.859		
1,500.0	1,500.0	1,498.6	1,498.6	4.7	4.7	89.05	1.0	60.0	60.0	51.1	8.88	6.759 CC, ES		
1,520.0	1,520.0	1,518.3	1,518.3	4.8	4.7	116.90	1.0	60.1	60.1	51.2	8.93	6.729		
1,600.0	1,600.0	1,596.7	1,596.7	4.9	4.8	117.54	1.8	61.4	62.3	53.1	9.15	6.809		
1,615.0	1,615.0	1,611.4	1,611.4	4.9	4.9	117.75	2.0	61.9	63.0	53.8	9.21	6.844		
1,700.0	1,699.8	1,694.5	1,694.4	5.2	5.0	119.24	4.2	65.8	69.2	59.6	9.57	7.230		
1,710.0	1,709.8	1,704.3	1,704.1	5.2	5.1	119.44	4.5	66.4	70.2	60.5	9.61	7.297		
1,800.0	1,799.5	1,791.6	1,791.1	5.4	5.3	121.37	8.1	73.0	80.9	70.9	10.01	8.081		
1,805.0	1,804.4	1,796.5	1,795.9	5.4	5.3	121.48	8.3	73.5	81.6	71.5	10.03	8.134		
1,900.0	1,898.7	1,887.7	1,886.5	5.7	5.6	123.45	13.5	83.0	97.3	86.8	10.45	9.306		
1,925.1	1,923.5	1,911.6	1,910.2	5.8	5.6	123.92	15.1	85.9	102.1	91.6	10.54	9.695		
1,995.0	1,992.7	1,977.9	1,975.7	5.9	5.9	125.04	20.0	94.9	116.8	106.0	10.80	10.807		
2,000.0	1,997.6	1,982.6	1,980.4	5.9	5.9	125.09	20.4	95.6	117.9	107.0	10.82	10.890		
2,090.0	2,086.6	2,067.2	2,063.5	6.1	6.2	125.54	27.7	109.2	138.7	127.5	11.22	12.367		
2,100.0	2,096.5	2,076.5	2,072.6	6.2	6.2	125.54	28.6	110.8	141.1	129.9	11.26	12.536		
2,185.0	2,180.6	2,155.3	2,149.6	6.4	6.5	125.29	36.6	125.6	162.9	151.3	11.64	13.999		
2,200.0	2,195.4	2,169.1	2,163.1	6.4	6.5	125.21	38.1	128.4	166.9	155.2	11.70	14.264		
2,280.0	2,274.5	2,244.5	2,236.2	6.7	6.8	124.66	46.8	144.2	189.1	177.0	12.07	15.669		
2,300.0	2,294.3	2,263.7	2,254.8	6.7	6.8	124.53	49.0	148.3	194.7	182.5	12.16	16.009		
2,375.0	2,368.5	2,335.7	2,324.7	7.0	7.1	124.10	57.3	163.6	215.6	203.1	12.52	17.224		
2,400.0	2,393.2	2,359.7	2,348.0	7.0	7.1	123.98	60.1	168.7	222.6	210.0	12.64	17.611		
2,470.0	2,462.5	2,426.9	2,413.2	7.3	7.4	123.67	67.8	183.0	242.2	229.2	12.99	18.647		

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1													Offset Site Error: 0.0 usft	
Survey Program: Reference		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS							Rule Assigned:				Offset Well Error: 3.0 usft	
Offset		Semi Major Axis		Offset Wellbore Centre		Distance								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
2,500.0	2,492.1	2,455.7	2,441.2	7.4	7.5	123.55	71.1	189.1	250.5	237.4	13.14	19.070		
2,565.0	2,556.4	2,518.1	2,501.7	7.6	7.7	123.32	78.4	202.4	268.7	255.2	13.47	19.948		
2,600.0	2,591.0	2,551.7	2,534.3	7.7	7.8	123.21	82.2	209.6	278.5	264.8	13.65	20.399		
2,660.0	2,650.4	2,609.3	2,590.2	7.9	8.0	123.04	88.9	221.8	295.3	281.3	13.97	21.139		
2,700.0	2,689.9	2,647.7	2,627.5	8.1	8.2	122.93	93.3	230.0	306.4	292.3	14.18	21.609		
2,755.0	2,744.3	2,700.5	2,678.7	8.2	8.4	122.80	99.4	241.2	321.8	307.3	14.48	22.230		
2,800.0	2,788.8	2,743.7	2,720.6	8.4	8.5	122.70	104.4	250.4	334.4	319.7	14.72	22.713		
2,850.0	2,838.3	2,791.7	2,767.2	8.6	8.7	122.60	109.9	260.6	348.4	333.4	15.00	23.229		
2,900.0	2,887.7	2,839.7	2,813.8	8.8	8.9	122.51	115.5	270.8	362.4	347.1	15.28	23.721		
2,945.0	2,932.2	2,882.9	2,855.7	8.9	9.1	122.43	120.5	280.0	374.9	359.4	15.53	24.147		
3,000.0	2,986.6	2,935.7	2,906.9	9.1	9.3	122.34	126.6	291.2	390.3	374.5	15.84	24.643		
3,040.0	3,026.2	2,974.1	2,944.2	9.3	9.4	122.28	131.0	299.4	401.5	385.4	16.07	24.990		
3,100.0	3,085.5	3,031.7	3,000.1	9.5	9.7	122.19	137.7	311.6	418.3	401.9	16.41	25.488		
3,135.0	3,120.1	3,065.3	3,032.7	9.6	9.8	122.15	141.5	318.8	428.1	411.5	16.61	25.767		
3,200.0	3,184.4	3,127.7	3,093.2	9.9	10.1	122.07	148.8	332.0	446.3	429.3	16.99	26.264		
3,230.0	3,214.1	3,156.5	3,121.2	10.0	10.2	122.03	152.1	338.2	454.6	437.5	17.17	26.484		
3,300.0	3,283.3	3,223.7	3,186.4	10.3	10.5	121.95	159.8	352.4	474.2	456.6	17.58	26.977		
3,325.0	3,308.1	3,247.7	3,209.7	10.4	10.6	121.93	162.6	357.5	481.2	463.5	17.73	27.146		
3,400.0	3,382.2	3,319.7	3,279.5	10.7	10.9	121.85	170.9	372.9	502.2	484.0	18.17	27.634		
3,420.0	3,402.0	3,338.9	3,298.2	10.7	11.0	121.84	173.1	376.9	507.8	489.5	18.29	27.759		
3,500.0	3,481.1	3,415.7	3,372.7	11.1	11.3	121.76	182.0	393.3	530.2	511.4	18.77	28.241		
3,515.0	3,496.0	3,430.1	3,386.6	11.1	11.4	121.75	183.7	396.3	534.4	515.5	18.86	28.328		
3,600.0	3,580.0	3,511.7	3,465.8	11.5	11.7	121.68	193.1	413.7	558.1	538.8	19.38	28.803		
3,610.0	3,589.9	3,521.3	3,475.1	11.5	11.8	121.68	194.2	415.7	560.9	541.5	19.44	28.856		
3,700.0	3,678.9	3,607.8	3,559.0	11.9	12.1	121.61	204.2	434.1	586.1	566.1	19.99	29.323		
3,705.0	3,683.9	3,612.6	3,563.6	11.9	12.2	121.61	204.7	435.1	587.5	567.5	20.02	29.348		
3,800.0	3,777.8	3,703.8	3,652.1	12.3	12.6	121.55	215.3	454.5	614.1	593.5	20.60	29.806		
3,895.0	3,871.8	3,795.0	3,740.6	12.6	13.0	121.49	225.8	473.9	640.7	619.5	21.19	30.234		
3,900.0	3,876.7	3,799.8	3,745.3	12.7	13.0	121.49	226.4	474.9	642.1	620.8	21.22	30.256		
3,990.0	3,965.8	3,886.2	3,829.1	13.0	13.4	121.44	236.3	493.3	667.2	645.5	21.78	30.634		
4,000.0	3,975.6	3,895.8	3,838.4	13.1	13.4	121.43	237.5	495.3	670.0	648.2	21.84	30.675		
4,085.0	4,059.7	3,977.4	3,917.6	13.4	13.8	121.39	246.9	512.7	693.8	671.4	22.37	31.009		
4,100.0	4,074.5	3,991.8	3,931.6	13.5	13.9	121.38	248.5	515.7	698.0	675.6	22.47	31.066		
4,127.7	4,101.9	4,018.4	3,957.4	13.6	14.0	121.37	251.6	521.4	705.8	683.1	22.63	31.190		
4,180.0	4,153.7	4,068.6	4,006.1	13.8	14.2	121.45	257.4	532.1	720.3	697.3	22.94	31.395		
4,200.0	4,173.5	4,087.8	4,024.8	13.9	14.3	121.48	259.6	536.2	725.8	702.7	23.06	31.469		
4,275.0	4,247.9	4,160.0	4,094.8	14.2	14.6	121.53	268.0	551.5	746.0	722.5	23.53	31.706		
4,300.0	4,272.7	4,184.1	4,118.2	14.3	14.7	121.53	270.8	556.6	752.7	729.0	23.69	31.778		
4,370.0	4,342.3	4,251.6	4,183.7	14.5	15.0	121.50	278.5	571.0	771.0	746.9	24.12	31.969		
4,400.0	4,372.1	4,280.6	4,211.8	14.6	15.2	121.47	281.9	577.2	778.7	754.4	24.30	32.044		
4,465.0	4,436.8	4,343.4	4,272.8	14.9	15.5	121.38	289.1	590.5	795.2	770.5	24.70	32.196		
4,500.0	4,471.7	4,377.2	4,305.6	15.0	15.6	121.32	293.1	597.7	803.9	779.0	24.91	32.270		
4,560.0	4,531.5	4,435.3	4,361.9	15.2	15.9	121.18	299.8	610.1	818.6	793.3	25.27	32.391		
4,600.0	4,571.4	4,474.0	4,399.5	15.4	16.1	121.07	304.2	618.3	828.3	802.7	25.51	32.464		
4,655.0	4,626.3	4,527.3	4,451.2	15.6	16.3	120.90	310.4	629.6	841.3	815.5	25.84	32.560		
4,700.0	4,671.2	4,570.9	4,493.5	15.7	16.5	120.74	315.4	638.9	851.8	825.7	26.11	32.630		
4,750.0	4,721.2	4,619.4	4,540.5	15.9	16.7	120.55	321.0	649.2	863.3	836.9	26.39	32.706		
4,800.0	4,771.1	4,667.9	4,587.6	16.0	17.0	120.33	326.6	659.5	874.5	847.9	26.68	32.773		
4,845.0	4,816.1	4,711.5	4,629.9	16.2	17.2	120.13	331.7	668.8	884.5	857.6	26.94	32.836		
4,900.0	4,871.1	4,764.9	4,681.7	16.3	17.4	119.85	337.8	680.1	896.5	869.3	27.25	32.903		
4,940.0	4,911.1	4,803.7	4,719.4	16.4	17.6	119.64	342.3	688.4	905.1	877.7	27.45	32.977		

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	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
Rule Assigned:												
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)
								+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation Factor
												Warning
4,977.9	4,949.0	4,840.4	4,755.0	16.4	17.8	91.60	346.5	696.2	913.2	885.5	27.63	33.051
5,000.0	4,971.1	4,865.1	4,779.0	16.4	17.9	91.41	349.4	701.4	917.8	890.1	27.74	33.086
5,035.0	5,006.1	4,912.5	4,825.1	16.5	18.1	91.07	354.6	711.0	924.9	896.9	27.99	33.043
5,100.0	5,071.1	5,001.4	4,912.1	16.5	18.5	90.50	363.4	727.2	936.7	908.2	28.47	32.899
5,130.0	5,101.1	5,042.8	4,952.8	16.5	18.7	90.28	367.0	733.9	941.5	912.8	28.68	32.826
5,200.0	5,171.1	5,140.3	5,049.0	16.6	19.2	89.82	374.5	747.6	951.4	922.3	29.16	32.630
5,225.0	5,196.1	5,175.4	5,083.7	16.6	19.3	89.68	376.8	751.9	954.5	925.1	29.32	32.553
5,300.0	5,271.1	5,281.2	5,188.8	16.6	19.8	89.34	382.5	762.4	962.0	932.2	29.77	32.309
5,320.0	5,291.1	5,309.5	5,217.1	16.6	19.9	89.27	383.7	764.7	963.6	933.7	29.89	32.237
5,400.0	5,371.1	5,423.4	5,330.7	16.7	20.3	89.07	387.3	771.2	968.2	937.9	30.29	31.968
5,415.0	5,386.1	5,444.8	5,352.1	16.7	20.4	89.04	387.7	772.0	968.8	938.4	30.35	31.919
5,500.0	5,471.1	5,562.5	5,469.7	16.7	20.6	88.98	388.7	773.8	970.1	939.5	30.58	31.725
5,510.0	5,481.1	5,572.5	5,479.7	16.7	20.7	88.98	388.7	773.8	970.1	939.5	30.59	31.715
5,600.0	5,571.1	5,662.5	5,569.7	16.8	20.7	88.98	388.7	773.8	970.1	939.4	30.69	31.606
5,605.0	5,576.1	5,667.5	5,574.7	16.8	20.7	88.98	388.7	773.8	970.1	939.4	30.70	31.600
5,700.0	5,671.1	5,762.5	5,669.7	16.8	20.7	88.98	388.7	773.8	970.1	939.2	30.82	31.478
5,795.0	5,766.1	5,857.5	5,764.7	16.9	20.8	88.98	388.7	773.8	970.1	939.1	30.94	31.357
5,800.0	5,771.1	5,862.5	5,769.7	16.9	20.8	88.98	388.7	773.8	970.1	939.1	30.94	31.351
5,890.0	5,861.1	5,952.5	5,859.7	17.0	20.8	88.98	388.7	773.8	970.1	939.0	31.05	31.237
5,900.0	5,871.1	5,962.5	5,869.7	17.0	20.8	88.98	388.7	773.8	970.1	939.0	31.07	31.225
5,985.0	5,956.1	6,047.5	5,954.7	17.0	20.8	88.98	388.7	773.8	970.1	938.9	31.17	31.118
6,000.0	5,971.1	6,062.5	5,969.7	17.0	20.8	88.98	388.7	773.8	970.1	938.9	31.19	31.099
6,080.0	6,051.1	6,142.5	6,049.7	17.1	20.9	88.98	388.7	773.8	970.1	938.8	31.29	31.000
6,100.0	6,071.1	6,162.5	6,069.7	17.1	20.9	88.98	388.7	773.8	970.1	938.7	31.32	30.975
6,175.0	6,146.1	6,237.5	6,144.7	17.1	20.9	88.98	388.7	773.8	970.1	938.6	31.41	30.882
6,200.0	6,171.1	6,262.5	6,169.7	17.1	20.9	88.98	388.7	773.8	970.1	938.6	31.44	30.851
6,270.0	6,241.1	6,332.5	6,239.7	17.2	21.0	88.98	388.7	773.8	970.1	938.5	31.53	30.764
6,300.0	6,271.1	6,362.5	6,269.7	17.2	21.0	88.98	388.7	773.8	970.1	938.5	31.57	30.727
6,365.0	6,336.1	6,427.5	6,334.7	17.2	21.0	88.98	388.7	773.8	970.1	938.4	31.65	30.648
6,400.0	6,371.1	6,462.5	6,369.7	17.3	21.0	88.98	388.7	773.8	970.1	938.4	31.70	30.605
6,460.0	6,431.1	6,522.5	6,429.7	17.3	21.0	88.98	388.7	773.8	970.1	938.3	31.77	30.532
6,500.0	6,471.1	6,562.5	6,469.7	17.3	21.1	88.98	388.7	773.8	970.1	938.2	31.82	30.483
6,555.0	6,526.1	6,617.5	6,524.7	17.3	21.1	88.98	388.7	773.8	970.1	938.2	31.89	30.416
6,600.0	6,571.1	6,662.5	6,569.7	17.4	21.1	88.98	388.7	773.8	970.1	938.1	31.95	30.362
6,650.0	6,621.1	6,712.5	6,619.7	17.4	21.1	88.98	388.7	773.8	970.1	938.0	32.01	30.302
6,700.0	6,671.1	6,762.5	6,669.7	17.4	21.2	88.98	388.7	773.8	970.1	938.0	32.08	30.242
6,745.0	6,716.1	6,807.5	6,714.7	17.5	21.2	88.98	388.7	773.8	970.1	937.9	32.13	30.188
6,800.0	6,771.1	6,862.5	6,769.7	17.5	21.2	88.98	388.7	773.8	970.1	937.8	32.20	30.122
6,840.0	6,811.1	6,902.5	6,809.7	17.5	21.2	88.98	388.7	773.8	970.1	937.8	32.25	30.075
6,900.0	6,871.1	6,962.5	6,869.7	17.6	21.2	88.98	388.7	773.8	970.1	937.7	32.33	30.003
6,935.0	6,906.1	6,997.5	6,904.7	17.6	21.3	88.98	388.7	773.8	970.1	937.7	32.38	29.962
7,000.0	6,971.1	7,062.5	6,969.7	17.6	21.3	88.98	388.7	773.8	970.1	937.6	32.46	29.885
7,030.0	7,001.1	7,092.5	6,999.7	17.6	21.3	88.98	388.7	773.8	970.1	937.6	32.50	29.850
7,100.0	7,071.1	7,162.5	7,069.7	17.7	21.3	88.98	388.7	773.8	970.1	937.5	32.59	29.768
7,125.0	7,096.1	7,187.5	7,094.7	17.7	21.3	88.98	388.7	773.8	970.1	937.4	32.62	29.738
7,200.0	7,171.1	7,262.5	7,169.7	17.7	21.4	88.98	388.7	773.8	970.1	937.3	32.72	29.651
7,220.0	7,191.1	7,282.5	7,189.7	17.7	21.4	88.98	388.7	773.8	970.1	937.3	32.74	29.628
7,300.0	7,271.1	7,362.5	7,269.7	17.8	21.4	88.98	388.7	773.8	970.1	937.2	32.84	29.535
7,315.0	7,286.1	7,377.5	7,284.7	17.8	21.4	88.98	388.7	773.8	970.1	937.2	32.86	29.518
7,400.0	7,371.1	7,462.5	7,369.7	17.9	21.5	88.98	388.7	773.8	970.1	937.1	32.97	29.420
7,410.0	7,381.1	7,472.5	7,379.7	17.9	21.5	88.98	388.7	773.8	970.1	937.1	32.99	29.408

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		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	
7,500.0	7,471.1	7,562.5	7,469.7	17.9	21.5	88.98	388.7	773.8	970.1	937.0	33.10	29.305
7,505.0	7,476.1	7,567.5	7,474.7	17.9	21.5	88.98	388.7	773.8	970.1	936.9	33.11	29.299
7,600.0	7,571.1	7,662.5	7,569.7	18.0	21.6	88.98	388.7	773.8	970.1	936.8	33.23	29.191
7,695.0	7,666.1	7,757.5	7,664.7	18.0	21.6	88.98	388.7	773.8	970.1	936.7	33.35	29.083
7,700.0	7,671.1	7,762.5	7,669.7	18.0	21.6	88.98	388.7	773.8	970.1	936.7	33.36	29.078
7,790.0	7,761.1	7,852.5	7,759.7	18.1	21.6	88.98	388.7	773.8	970.1	936.6	33.48	28.976
7,800.0	7,771.1	7,862.5	7,769.7	18.1	21.7	88.98	388.7	773.8	970.1	936.6	33.49	28.965
7,885.0	7,856.1	7,947.5	7,854.7	18.2	21.7	88.98	388.7	773.8	970.1	936.5	33.60	28.870
7,900.0	7,871.1	7,962.5	7,869.7	18.2	21.7	88.98	388.7	773.8	970.1	936.4	33.62	28.853
7,980.0	7,951.1	8,042.5	7,949.7	18.2	21.7	88.98	388.7	773.8	970.1	936.3	33.72	28.764
8,000.0	7,971.1	8,062.5	7,969.7	18.2	21.7	88.98	388.7	773.8	970.1	936.3	33.75	28.742
8,075.0	8,046.1	8,137.5	8,044.7	18.3	21.8	88.98	388.7	773.8	970.1	936.2	33.85	28.659
8,100.0	8,071.1	8,162.5	8,069.7	18.3	21.8	88.98	388.7	773.8	970.1	936.2	33.88	28.632
8,170.0	8,141.1	8,232.5	8,139.7	18.3	21.8	88.98	388.7	773.8	970.1	936.1	33.97	28.555
8,200.0	8,171.1	8,262.5	8,169.7	18.3	21.8	88.98	388.7	773.8	970.1	936.0	34.01	28.522
8,265.0	8,236.1	8,327.5	8,234.7	18.4	21.9	88.98	388.7	773.8	970.1	936.0	34.10	28.451
8,300.0	8,271.1	8,362.5	8,269.7	18.4	21.9	88.98	388.7	773.8	970.1	935.9	34.14	28.412
8,360.0	8,331.1	8,422.5	8,329.7	18.4	21.9	88.98	388.7	773.8	970.1	935.8	34.21	28.354
8,402.9	8,374.0	8,465.4	8,372.6	18.5	21.9	88.98	388.7	773.8	970.1	935.8	34.26	28.314
8,450.0	8,421.1	8,513.7	8,421.0	18.5	21.9	-91.60	388.0	773.8	970.1	935.8	34.28	28.301
8,455.0	8,426.0	8,519.0	8,426.2	18.5	22.0	-91.61	387.7	773.8	970.1	935.8	34.28	28.301
8,500.0	8,470.7	8,566.3	8,473.3	18.6	22.0	-91.69	383.1	773.8	970.1	935.9	34.28	28.300
8,550.0	8,519.5	8,619.0	8,525.0	18.6	22.0	-91.77	373.3	773.7	970.2	935.9	34.28	28.303
8,600.0	8,567.3	8,671.8	8,575.8	18.7	22.0	-91.84	358.8	773.5	970.2	935.9	34.27	28.311
8,645.0	8,609.0	8,719.4	8,620.2	18.7	22.0	-91.88	341.7	773.4	970.2	936.0	34.26	28.321
8,650.0	8,613.5	8,724.7	8,625.1	18.7	22.0	-91.88	339.6	773.4	970.2	936.0	34.26	28.322
8,700.0	8,658.0	8,777.6	8,672.4	18.8	22.1	-91.92	316.0	773.2	970.3	936.0	34.24	28.334
8,740.0	8,692.0	8,820.0	8,708.7	18.9	22.1	-91.94	293.9	773.0	970.3	936.0	34.23	28.344
8,750.0	8,700.3	8,830.7	8,717.5	18.9	22.1	-91.94	288.0	772.9	970.3	936.0	34.23	28.346
8,800.0	8,740.1	8,883.7	8,759.7	18.9	22.1	-91.94	256.0	772.6	970.3	936.1	34.22	28.355
8,835.0	8,766.3	8,920.8	8,787.5	19.0	22.1	-91.94	231.3	772.4	970.3	936.1	34.21	28.358
8,850.0	8,777.1	8,936.7	8,798.9	19.0	22.2	-91.93	220.2	772.3	970.3	936.0	34.21	28.359
8,900.0	8,811.1	8,989.7	8,834.5	19.0	22.2	-91.90	181.0	772.0	970.2	936.0	34.22	28.356
8,930.0	8,829.9	9,021.5	8,854.0	19.1	22.2	-91.88	156.0	771.7	970.2	936.0	34.23	28.348
8,950.0	8,841.7	9,042.7	8,866.3	19.1	22.2	-91.86	138.7	771.6	970.2	936.0	34.23	28.343
9,000.0	8,868.8	9,095.5	8,894.0	19.2	22.3	-91.80	93.8	771.2	970.2	935.9	34.26	28.319
9,025.0	8,880.9	9,121.9	8,906.3	19.2	22.3	-91.77	70.4	771.0	970.2	935.9	34.28	28.301
9,050.0	8,892.1	9,148.3	8,917.5	19.2	22.3	-91.73	46.5	770.8	970.2	935.9	34.30	28.282
9,100.0	8,911.4	9,200.9	8,936.4	19.3	22.4	-91.64	-2.5	770.3	970.1	935.8	34.36	28.230
9,120.0	8,918.0	9,221.8	8,942.7	19.3	22.4	-91.60	-22.5	770.2	970.1	935.7	34.40	28.204
9,150.0	8,926.7	9,253.3	8,950.8	19.3	22.4	-91.54	-52.9	769.9	970.1	935.6	34.44	28.164
9,200.0	8,937.8	9,305.6	8,960.4	19.3	22.5	-91.43	-104.3	769.4	970.0	935.5	34.54	28.082
9,215.0	8,940.3	9,321.2	8,962.4	19.3	22.5	-91.40	-119.8	769.3	970.0	935.4	34.58	28.054
9,250.0	8,944.6	9,357.6	8,965.3	19.4	22.5	-91.31	-156.1	769.0	970.0	935.3	34.66	27.987
9,301.8	8,947.0	9,410.4	8,966.0	19.4	22.6	-91.21	-208.9	768.5	969.9	935.1	34.80	27.873
9,302.1	8,947.0	9,410.7	8,966.0	19.4	22.6	-91.21	-209.2	768.5	969.9	935.1	34.80	27.873
9,310.0	8,947.0	9,418.6	8,966.0	19.4	22.6	-91.21	-217.1	768.4	969.9	935.1	34.83	27.851
9,400.0	8,947.1	9,508.6	8,966.1	19.4	22.7	-91.20	-307.1	767.6	969.9	934.8	35.13	27.612
9,405.0	8,947.2	9,513.6	8,966.1	19.4	22.7	-91.20	-312.1	767.6	969.9	934.8	35.15	27.596
9,500.0	8,947.3	9,608.6	8,966.2	19.5	22.9	-91.20	-407.1	766.8	969.9	934.4	35.53	27.301
9,595.0	8,947.4	9,703.6	8,966.3	19.5	23.1	-91.20	-502.1	765.9	969.9	934.0	35.96	26.969

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	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
Rule Assigned:													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor
								+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)		Warning
9,600.0	8,947.4	9,708.6	8,966.3	19.5	23.1	-91.20	-91.20	-507.1	765.9	969.9	934.0	35.99	26.951
9,690.0	8,947.6	9,798.6	8,966.4	19.6	23.2	-91.20	-91.20	-597.1	765.1	969.9	933.5	36.46	26.606
9,700.0	8,947.6	9,808.6	8,966.4	19.6	23.3	-91.20	-91.20	-607.1	765.0	969.9	933.4	36.51	26.566
9,785.0	8,947.7	9,893.6	8,966.5	19.7	23.4	-91.19	-91.19	-692.1	764.2	969.9	932.9	37.00	26.215
9,800.0	8,947.7	9,908.6	8,966.5	19.7	23.5	-91.19	-91.19	-707.1	764.1	969.9	932.9	37.09	26.153
9,880.0	8,947.9	9,988.6	8,966.6	19.8	23.6	-91.19	-91.19	-787.1	763.4	969.9	932.4	37.59	25.802
9,900.0	8,947.9	10,008.6	8,966.6	19.8	23.7	-91.19	-91.19	-807.1	763.2	969.9	932.2	37.72	25.715
9,975.0	8,948.0	10,083.6	8,966.7	19.9	23.9	-91.19	-91.19	-882.1	762.5	969.9	931.7	38.23	25.372
10,000.0	8,948.0	10,108.6	8,966.7	19.9	23.9	-91.19	-91.19	-907.1	762.3	969.9	931.5	38.40	25.258
10,070.0	8,948.1	10,178.6	8,966.8	20.0	24.1	-91.19	-91.19	-977.0	761.7	969.9	931.0	38.91	24.927
10,100.0	8,948.2	10,208.6	8,966.8	20.1	24.2	-91.18	-91.18	-1,007.0	761.4	969.9	930.8	39.13	24.787
10,165.0	8,948.3	10,273.6	8,966.9	20.2	24.4	-91.18	-91.18	-1,072.0	760.9	969.9	930.3	39.63	24.472
10,200.0	8,948.3	10,308.6	8,966.9	20.2	24.5	-91.18	-91.18	-1,107.0	760.6	969.9	930.0	39.91	24.305
10,260.0	8,948.4	10,368.6	8,967.0	20.3	24.6	-91.18	-91.18	-1,167.0	760.0	969.9	929.6	40.40	24.010
10,300.0	8,948.5	10,408.6	8,967.0	20.4	24.8	-91.18	-91.18	-1,207.0	759.7	969.9	929.2	40.73	23.817
10,355.0	8,948.6	10,463.6	8,967.1	20.5	24.9	-91.18	-91.18	-1,262.0	759.2	969.9	928.8	41.20	23.545
10,400.0	8,948.6	10,508.6	8,967.1	20.6	25.1	-91.18	-91.18	-1,307.0	758.8	969.9	928.4	41.58	23.326
10,450.0	8,948.7	10,558.6	8,967.2	20.7	25.3	-91.17	-91.17	-1,357.0	758.3	969.9	927.9	42.03	23.078
10,500.0	8,948.8	10,608.6	8,967.2	20.9	25.4	-91.17	-91.17	-1,407.0	757.9	969.9	927.5	42.48	22.834
10,545.0	8,948.8	10,653.6	8,967.3	21.0	25.6	-91.17	-91.17	-1,452.0	757.5	970.0	927.1	42.90	22.611
10,600.0	8,948.9	10,708.6	8,967.3	21.1	25.8	-91.17	-91.17	-1,507.0	757.0	970.0	926.5	43.41	22.344
10,640.0	8,949.0	10,748.6	8,967.4	21.3	25.9	-91.17	-91.17	-1,547.0	756.7	970.0	926.2	43.79	22.148
10,700.0	8,949.1	10,808.6	8,967.4	21.4	26.1	-91.17	-91.17	-1,607.0	756.1	970.0	925.6	44.37	21.859
10,735.0	8,949.1	10,843.6	8,967.5	21.6	26.3	-91.17	-91.17	-1,642.0	755.8	970.0	925.2	44.72	21.690
10,800.0	8,949.2	10,908.6	8,967.5	21.8	26.5	-91.16	-91.16	-1,707.0	755.2	970.0	924.6	45.37	21.380
10,830.0	8,949.3	10,938.6	8,967.6	21.9	26.6	-91.16	-91.16	-1,737.0	755.0	970.0	924.3	45.67	21.237
10,900.0	8,949.4	11,008.6	8,967.6	22.2	26.9	-91.16	-91.16	-1,807.0	754.4	970.0	923.6	46.39	20.909
10,925.0	8,949.4	11,033.6	8,967.7	22.3	27.0	-91.16	-91.16	-1,832.0	754.1	970.0	923.3	46.65	20.792
11,000.0	8,949.5	11,108.6	8,967.7	22.6	27.3	-91.16	-91.16	-1,907.0	753.5	970.0	922.5	47.44	20.447
11,020.0	8,949.5	11,128.6	8,967.8	22.7	27.4	-91.16	-91.16	-1,927.0	753.3	970.0	922.3	47.65	20.355
11,100.0	8,949.7	11,208.6	8,967.8	23.0	27.8	-91.16	-91.16	-2,007.0	752.6	970.0	921.4	48.51	19.994
11,115.0	8,949.7	11,223.6	8,967.9	23.1	27.8	-91.16	-91.16	-2,022.0	752.5	970.0	921.3	48.68	19.926
11,200.0	8,949.8	11,308.6	8,967.9	23.5	28.2	-91.15	-91.15	-2,107.0	751.7	970.0	920.3	49.61	19.551
11,210.0	8,949.8	11,318.6	8,967.9	23.6	28.3	-91.15	-91.15	-2,117.0	751.6	970.0	920.2	49.72	19.507
11,300.0	8,950.0	11,408.6	8,968.0	24.0	28.7	-91.15	-91.15	-2,207.0	750.8	970.0	919.2	50.73	19.120
11,305.0	8,950.0	11,413.6	8,968.0	24.1	28.7	-91.15	-91.15	-2,212.0	750.8	970.0	919.2	50.79	19.098
11,400.0	8,950.1	11,508.6	8,968.1	24.6	29.2	-91.15	-91.15	-2,307.0	749.9	970.0	918.1	51.87	18.699
11,495.0	8,950.2	11,603.6	8,968.2	25.1	29.6	-91.15	-91.15	-2,402.0	749.1	970.0	917.0	52.97	18.311
11,500.0	8,950.3	11,608.6	8,968.2	25.1	29.6	-91.15	-91.15	-2,407.0	749.0	970.0	916.9	53.03	18.291
11,590.0	8,950.4	11,698.6	8,968.3	25.6	30.1	-91.14	-91.14	-2,497.0	748.2	970.0	915.9	54.09	17.933
11,600.0	8,950.4	11,708.6	8,968.3	25.7	30.1	-91.14	-91.14	-2,507.0	748.2	970.0	915.8	54.21	17.893
11,685.0	8,950.5	11,793.6	8,968.4	26.2	30.6	-91.14	-91.14	-2,592.0	747.4	970.0	914.7	55.22	17.565
11,700.0	8,950.5	11,808.6	8,968.4	26.3	30.7	-91.14	-91.14	-2,607.0	747.3	970.0	914.6	55.40	17.508
11,780.0	8,950.7	11,888.6	8,968.5	26.7	31.1	-91.14	-91.14	-2,687.0	746.6	970.0	913.6	56.37	17.207
11,800.0	8,950.7	11,908.6	8,968.5	26.9	31.2	-91.14	-91.14	-2,707.0	746.4	970.0	913.4	56.61	17.133
11,875.0	8,950.8	11,983.6	8,968.6	27.3	31.6	-91.13	-91.13	-2,782.0	745.7	970.0	912.4	57.53	16.860
11,900.0	8,950.8	12,008.6	8,968.6	27.5	31.7	-91.13	-91.13	-2,807.0	745.5	970.0	912.1	57.84	16.771
11,970.0	8,950.9	12,078.6	8,968.7	27.9	32.1	-91.13	-91.13	-2,877.0	744.9	970.0	911.3	58.70	16.523
12,000.0	8,951.0	12,108.6	8,968.7	28.1	32.3	-91.13	-91.13	-2,907.0	744.6	970.0	910.9	59.08	16.419
12,065.0	8,951.1	12,173.6	8,968.8	28.5	32.6	-91.13	-91.13	-2,972.0	744.0	970.0	910.1	59.89	16.196
12,100.0	8,951.1	12,208.6	8,968.8	28.7	32.8	-91.13	-91.13	-3,007.0	743.7	970.0	909.6	60.33	16.078

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1														Offset Site Error: 0.0 usft	
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS							Rule Assigned:				Offset Well Error: 3.0 usft		
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance						
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		
12,160.0	8,951.2	12,268.6	8,968.9	29.1	33.1	-91.13	-3,067.0	743.2	970.0	908.9	61.09	15.879			
12,200.0	8,951.3	12,308.6	8,968.9	29.4	33.4	-91.13	-3,107.0	742.8	970.0	908.4	61.59	15.748			
12,255.0	8,951.4	12,363.6	8,969.0	29.7	33.7	-91.12	-3,162.0	742.4	970.0	907.7	62.29	15.571			
12,300.0	8,951.4	12,408.6	8,969.0	30.0	33.9	-91.12	-3,207.0	742.0	970.0	907.1	62.87	15.429			
12,350.0	8,951.5	12,458.6	8,969.1	30.3	34.2	-91.12	-3,257.0	741.5	970.0	906.5	63.51	15.273			
12,400.0	8,951.6	12,508.6	8,969.1	30.7	34.5	-91.12	-3,307.0	741.1	970.0	905.8	64.15	15.119			
12,445.0	8,951.7	12,553.6	8,969.2	31.0	34.8	-91.12	-3,352.0	740.7	970.0	905.2	64.74	14.983			
12,500.0	8,951.7	12,608.6	8,969.2	31.3	35.1	-91.12	-3,407.0	740.2	970.0	904.5	65.45	14.820			
12,540.0	8,951.8	12,648.6	8,969.3	31.6	35.3	-91.12	-3,447.0	739.8	970.0	904.0	65.97	14.703			
12,600.0	8,951.9	12,708.6	8,969.3	32.0	35.7	-91.11	-3,506.9	739.3	970.0	903.2	66.76	14.530			
12,635.0	8,951.9	12,743.6	8,969.4	32.2	35.9	-91.11	-3,541.9	739.0	970.0	902.8	67.22	14.430			
12,700.0	8,952.0	12,808.6	8,969.4	32.7	36.3	-91.11	-3,606.9	738.4	970.0	901.9	68.07	14.249			
12,730.0	8,952.1	12,838.6	8,969.5	32.9	36.5	-91.11	-3,636.9	738.1	970.0	901.5	68.47	14.167			
12,800.0	8,952.2	12,908.6	8,969.5	33.3	36.9	-91.11	-3,706.9	737.5	970.0	900.6	69.40	13.977			
12,825.0	8,952.2	12,933.6	8,969.6	33.5	37.1	-91.11	-3,731.9	737.3	970.0	900.2	69.73	13.911			
12,900.0	8,952.3	13,008.6	8,969.6	34.0	37.5	-91.11	-3,806.9	736.6	970.0	899.2	70.73	13.714			
12,920.0	8,952.4	13,028.6	8,969.7	34.1	37.6	-91.11	-3,826.9	736.5	970.0	899.0	71.00	13.662			
13,000.0	8,952.5	13,108.6	8,969.8	34.7	38.1	-91.10	-3,906.9	735.8	970.0	897.9	72.07	13.459			
13,015.0	8,952.5	13,123.6	8,969.8	34.8	38.2	-91.10	-3,921.9	735.6	970.0	897.7	72.27	13.422			
13,100.0	8,952.6	13,208.6	8,969.9	35.4	38.8	-91.10	-4,006.9	734.9	970.0	896.6	73.42	13.212			
13,110.0	8,952.6	13,218.6	8,969.9	35.5	38.8	-91.10	-4,016.9	734.8	970.0	896.4	73.55	13.188			
13,200.0	8,952.8	13,308.6	8,970.0	36.1	39.4	-91.10	-4,106.9	734.0	970.0	895.2	74.77	12.973			
13,205.0	8,952.8	13,313.6	8,970.0	36.1	39.4	-91.10	-4,111.9	733.9	970.0	895.1	74.84	12.961			
13,300.0	8,952.9	13,408.6	8,970.1	36.8	40.0	-91.10	-4,206.9	733.1	970.0	893.9	76.13	12.741			
13,395.0	8,953.1	13,503.6	8,970.1	37.4	40.6	-91.09	-4,301.9	732.3	970.0	892.6	77.43	12.528			
13,400.0	8,953.1	13,508.6	8,970.2	37.5	40.7	-91.09	-4,306.9	732.2	970.0	892.5	77.50	12.517			
13,490.0	8,953.2	13,598.6	8,970.2	38.1	41.3	-91.09	-4,396.9	731.4	970.0	891.3	78.73	12.320			
13,500.0	8,953.2	13,608.6	8,970.3	38.2	41.3	-91.09	-4,406.9	731.3	970.0	891.1	78.87	12.299			
13,585.0	8,953.3	13,693.6	8,970.3	38.8	41.9	-91.09	-4,491.9	730.6	970.0	889.9	80.04	12.119			
13,600.0	8,953.4	13,708.6	8,970.4	38.9	42.0	-91.09	-4,506.9	730.4	970.0	889.7	80.25	12.088			
13,680.0	8,953.5	13,788.6	8,970.4	39.4	42.5	-91.08	-4,586.9	729.7	970.0	888.6	81.35	11.923			
13,700.0	8,953.5	13,808.6	8,970.5	39.6	42.6	-91.08	-4,606.9	729.6	970.0	888.4	81.63	11.883			
13,775.0	8,953.6	13,883.6	8,970.5	40.1	43.1	-91.08	-4,681.9	728.9	970.0	887.3	82.67	11.733			
13,800.0	8,953.7	13,908.6	8,970.6	40.3	43.3	-91.08	-4,706.9	728.7	970.0	887.0	83.02	11.684			
13,870.0	8,953.8	13,978.6	8,970.6	40.8	43.7	-91.08	-4,776.9	728.1	970.0	886.0	83.99	11.549			
13,900.0	8,953.8	14,008.6	8,970.7	41.0	43.9	-91.08	-4,806.9	727.8	970.0	885.6	84.41	11.491			
13,965.0	8,953.9	14,073.6	8,970.7	41.5	44.4	-91.08	-4,871.9	727.2	970.0	884.7	85.32	11.369			
14,000.0	8,954.0	14,108.6	8,970.8	41.7	44.6	-91.08	-4,906.9	726.9	970.0	884.2	85.81	11.304			
14,060.0	8,954.0	14,168.6	8,970.8	42.1	45.0	-91.07	-4,966.9	726.4	970.0	883.3	86.65	11.194			
14,100.0	8,954.1	14,208.6	8,970.9	42.4	45.3	-91.07	-5,006.9	726.0	970.0	882.8	87.21	11.122			
14,155.0	8,954.2	14,263.6	8,970.9	42.8	45.7	-91.07	-5,061.9	725.5	970.0	882.0	87.98	11.025			
14,200.0	8,954.2	14,308.6	8,971.0	43.2	46.0	-91.07	-5,106.9	725.1	970.0	881.4	88.62	10.946			
14,250.0	8,954.3	14,358.6	8,971.0	43.5	46.3	-91.07	-5,156.9	724.7	970.0	880.7	89.32	10.860			
14,300.0	8,954.4	14,408.6	8,971.1	43.9	46.6	-91.07	-5,206.9	724.2	970.0	880.0	90.03	10.775			
14,345.0	8,954.5	14,453.6	8,971.1	44.2	46.9	-91.07	-5,251.9	723.8	970.0	879.3	90.66	10.699			
14,400.0	8,954.5	14,508.6	8,971.2	44.6	47.3	-91.06	-5,306.9	723.4	970.0	878.6	91.44	10.608			
14,440.0	8,954.6	14,548.6	8,971.2	44.9	47.6	-91.06	-5,346.9	723.0	970.0	878.0	92.01	10.543			
14,500.0	8,954.7	14,608.6	8,971.3	45.3	48.0	-91.06	-5,406.9	722.5	970.0	877.1	92.86	10.446			
14,535.0	8,954.7	14,643.6	8,971.3	45.6	48.2	-91.06	-5,441.9	722.2	970.0	876.6	93.35	10.391			
14,600.0	8,954.8	14,708.6	8,971.4	46.0	48.7	-91.06	-5,506.9	721.6	970.0	875.7	94.28	10.289			
14,630.0	8,954.9	14,738.6	8,971.4	46.3	48.9	-91.06	-5,536.9	721.3	970.0	875.3	94.70	10.242			

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		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)	
14,700.0	8,955.0	14,808.6	8,971.5	46.8	49.4	-91.06	-5,606.9	720.7	970.0	874.3	95.70	10.136
14,725.0	8,955.0	14,833.6	8,971.5	46.9	49.5	-91.06	-5,631.9	720.5	970.0	873.9	96.06	10.098
14,800.0	8,955.1	14,908.6	8,971.6	47.5	50.0	-91.05	-5,706.9	719.8	970.0	872.9	97.13	9.987
14,820.0	8,955.2	14,928.6	8,971.6	47.6	50.2	-91.05	-5,726.9	719.6	970.0	872.6	97.41	9.957
14,900.0	8,955.3	15,008.6	8,971.7	48.2	50.7	-91.05	-5,806.9	718.9	970.0	871.4	98.56	9.842
14,915.0	8,955.3	15,023.6	8,971.7	48.3	50.8	-91.05	-5,821.9	718.8	970.0	871.2	98.77	9.820
15,000.0	8,955.4	15,108.6	8,971.8	48.9	51.4	-91.05	-5,906.9	718.0	970.0	870.0	99.99	9.701
15,010.0	8,955.4	15,118.6	8,971.8	49.0	51.5	-91.05	-5,916.9	718.0	970.0	869.9	100.14	9.687
15,100.0	8,955.6	15,208.6	8,971.9	49.7	52.1	-91.04	-6,006.8	717.2	970.0	868.6	101.43	9.564
15,105.0	8,955.6	15,213.6	8,971.9	49.7	52.2	-91.04	-6,011.8	717.1	970.0	868.5	101.50	9.557
15,200.0	8,955.7	15,308.6	8,972.0	50.4	52.8	-91.04	-6,106.8	716.3	970.0	867.1	102.87	9.430
15,295.0	8,955.9	15,403.6	8,972.1	51.1	53.5	-91.04	-6,201.8	715.4	970.0	865.8	104.23	9.306
15,300.0	8,955.9	15,408.6	8,972.1	51.1	53.5	-91.04	-6,206.8	715.4	970.0	865.7	104.31	9.300
15,390.0	8,956.0	15,498.6	8,972.2	51.8	54.1	-91.04	-6,296.8	714.6	970.0	864.4	105.61	9.185
15,400.0	8,956.0	15,508.6	8,972.2	51.9	54.2	-91.04	-6,306.8	714.5	970.0	864.3	105.75	9.173
15,485.0	8,956.1	15,593.6	8,972.3	52.5	54.8	-91.03	-6,391.8	713.8	970.0	863.0	106.98	9.067
15,500.0	8,956.2	15,608.6	8,972.3	52.6	54.9	-91.03	-6,406.8	713.6	970.0	862.8	107.20	9.049
15,580.0	8,956.3	15,688.6	8,972.3	53.2	55.5	-91.03	-6,486.8	712.9	970.0	861.7	108.35	8.952
15,600.0	8,956.3	15,708.6	8,972.4	53.3	55.6	-91.03	-6,506.8	712.7	970.0	861.4	108.64	8.928
15,675.0	8,956.4	15,783.6	8,972.4	53.9	56.2	-91.03	-6,581.8	712.1	970.0	860.3	109.73	8.840
15,700.0	8,956.5	15,808.6	8,972.5	54.1	56.3	-91.03	-6,606.8	711.8	970.0	859.9	110.09	8.811
15,770.0	8,956.6	15,878.6	8,972.5	54.6	56.8	-91.03	-6,676.8	711.2	970.0	858.9	111.11	8.730
15,800.0	8,956.6	15,908.6	8,972.6	54.8	57.0	-91.03	-6,706.8	711.0	970.0	858.5	111.55	8.696
15,865.0	8,956.7	15,973.6	8,972.6	55.3	57.5	-91.02	-6,771.8	710.4	970.0	857.5	112.49	8.623
15,900.0	8,956.8	16,008.6	8,972.7	55.6	57.7	-91.02	-6,806.8	710.1	970.0	857.0	113.00	8.584
15,960.0	8,956.9	16,068.6	8,972.7	56.0	58.2	-91.02	-6,866.8	709.5	970.0	856.1	113.87	8.518
16,000.0	8,956.9	16,108.6	8,972.8	56.3	58.5	-91.02	-6,906.8	709.2	970.0	855.6	114.46	8.475
16,055.0	8,957.0	16,163.6	8,972.8	56.7	58.8	-91.02	-6,961.8	708.7	970.0	854.8	115.26	8.416
16,100.0	8,957.1	16,208.6	8,972.9	57.0	59.2	-91.02	-7,006.8	708.3	970.0	854.1	115.91	8.368
16,150.0	8,957.1	16,258.6	8,972.9	57.4	59.5	-91.02	-7,056.8	707.9	970.0	853.4	116.64	8.316
16,200.0	8,957.2	16,308.6	8,973.0	57.8	59.9	-91.01	-7,106.8	707.4	970.0	852.6	117.37	8.264
16,245.0	8,957.3	16,353.6	8,973.0	58.1	60.2	-91.01	-7,151.8	707.0	970.0	852.0	118.03	8.218
16,300.0	8,957.4	16,408.6	8,973.1	58.5	60.6	-91.01	-7,206.8	706.5	970.0	851.2	118.83	8.163
16,340.0	8,957.4	16,448.6	8,973.1	58.8	60.9	-91.01	-7,246.8	706.2	970.0	850.6	119.42	8.123
16,400.0	8,957.5	16,508.6	8,973.2	59.3	61.3	-91.01	-7,306.8	705.6	970.0	849.7	120.30	8.063
16,435.0	8,957.6	16,543.6	8,973.2	59.5	61.6	-91.01	-7,341.8	705.3	970.0	849.2	120.81	8.029
16,500.0	8,957.7	16,608.6	8,973.3	60.0	62.0	-91.01	-7,406.8	704.8	970.0	848.3	121.76	7.967
16,530.0	8,957.7	16,638.6	8,973.3	60.2	62.2	-91.00	-7,436.8	704.5	970.0	847.8	122.20	7.938
16,600.0	8,957.8	16,708.6	8,973.4	60.7	62.7	-91.00	-7,506.8	703.9	970.0	846.8	123.23	7.872
16,625.0	8,957.8	16,733.6	8,973.4	60.9	62.9	-91.00	-7,531.8	703.7	970.0	846.4	123.60	7.848
16,700.0	8,957.9	16,808.6	8,973.5	61.5	63.5	-91.00	-7,606.8	703.0	970.0	845.3	124.70	7.779
16,720.0	8,958.0	16,828.6	8,973.5	61.6	63.6	-91.00	-7,626.8	702.8	970.0	845.0	124.99	7.761
16,800.0	8,958.1	16,908.6	8,973.6	62.2	64.2	-91.00	-7,706.8	702.1	970.0	843.9	126.16	7.689
16,815.0	8,958.1	16,923.6	8,973.6	62.3	64.3	-91.00	-7,721.8	702.0	970.0	843.6	126.39	7.675
16,900.0	8,958.2	17,008.6	8,973.7	63.0	64.9	-90.99	-7,806.8	701.2	970.0	842.4	127.64	7.600
16,910.0	8,958.3	17,018.6	8,973.7	63.0	65.0	-90.99	-7,816.8	701.1	970.0	842.2	127.78	7.591
17,000.0	8,958.4	17,108.6	8,973.8	63.7	65.6	-90.99	-7,906.8	700.3	970.0	840.9	129.11	7.513
17,005.0	8,958.4	17,113.6	8,973.8	63.7	65.7	-90.99	-7,911.8	700.3	970.0	840.8	129.18	7.509
17,100.0	8,958.5	17,208.6	8,973.9	64.5	66.4	-90.99	-8,006.8	699.4	970.0	839.4	130.58	7.429
17,195.0	8,958.7	17,303.6	8,974.0	65.2	67.0	-90.99	-8,101.8	698.6	970.0	838.0	131.98	7.350
17,200.0	8,958.7	17,308.6	8,974.0	65.2	67.1	-90.99	-8,106.8	698.6	970.0	838.0	132.05	7.346

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS						Rule Assigned:				Offset Well Error:	3.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		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)	Separation Factor			
17,290.0	8,958.8	17,398.6	8,974.1	65.9	67.7	-90.98	-8,196.8	697.8	970.0	836.6	133.38	7.273		
17,300.0	8,958.8	17,408.6	8,974.1	65.9	67.8	-90.98	-8,206.8	697.7	970.0	836.5	133.53	7.265		
17,385.0	8,959.0	17,493.6	8,974.2	66.6	68.4	-90.98	-8,291.8	696.9	970.0	835.2	134.78	7.197		
17,400.0	8,959.0	17,508.6	8,974.2	66.7	68.5	-90.98	-8,306.8	696.8	970.0	835.0	135.01	7.185		
17,480.0	8,959.1	17,588.6	8,974.3	67.3	69.1	-90.98	-8,386.8	696.1	970.0	833.8	136.19	7.123		
17,500.0	8,959.1	17,608.6	8,974.3	67.4	69.3	-90.98	-8,406.8	695.9	970.0	833.5	136.48	7.107		
17,575.0	8,959.2	17,683.6	8,974.4	68.0	69.8	-90.98	-8,481.8	695.2	970.0	832.4	137.59	7.050		
17,600.0	8,959.3	17,708.6	8,974.4	68.2	70.0	-90.97	-8,506.7	695.0	970.0	832.1	137.96	7.031		
17,670.0	8,959.4	17,778.6	8,974.5	68.7	70.5	-90.97	-8,576.7	694.4	970.0	831.0	139.00	6.979		
17,700.0	8,959.4	17,808.6	8,974.5	68.9	70.7	-90.97	-8,606.7	694.1	970.0	830.6	139.44	6.956		
17,765.0	8,959.5	17,873.6	8,974.5	69.4	71.2	-90.97	-8,671.7	693.6	970.0	829.6	140.41	6.909		
17,800.0	8,959.6	17,908.6	8,974.6	69.7	71.4	-90.97	-8,706.7	693.3	970.0	829.1	140.92	6.883		
17,860.0	8,959.7	17,968.6	8,974.6	70.1	71.9	-90.97	-8,766.7	692.7	970.0	828.2	141.81	6.840		
17,900.0	8,959.7	18,008.6	8,974.7	70.4	72.2	-90.97	-8,806.7	692.4	970.0	827.6	142.41	6.812		
17,955.0	8,959.8	18,063.6	8,974.7	70.8	72.6	-90.97	-8,861.7	691.9	970.0	826.8	143.22	6.773		
18,000.0	8,959.9	18,108.6	8,974.8	71.2	72.9	-90.96	-8,906.7	691.5	970.0	826.2	143.89	6.742		
18,050.0	8,959.9	18,158.6	8,974.8	71.6	73.3	-90.96	-8,956.7	691.0	970.0	825.4	144.63	6.707		
18,100.0	8,960.0	18,208.6	8,974.9	71.9	73.6	-90.96	-9,006.7	690.6	970.0	824.7	145.37	6.673		
18,145.0	8,960.1	18,253.6	8,974.9	72.3	74.0	-90.96	-9,051.7	690.2	970.0	824.0	146.04	6.642		
18,200.0	8,960.2	18,308.6	8,975.0	72.7	74.4	-90.96	-9,106.7	689.7	970.0	823.2	146.86	6.605		
18,240.0	8,960.2	18,348.6	8,975.0	73.0	74.7	-90.96	-9,146.7	689.4	970.0	822.6	147.45	6.579		
18,300.0	8,960.3	18,408.6	8,975.1	73.4	75.1	-90.96	-9,206.7	688.8	970.0	821.7	148.34	6.539		
18,335.0	8,960.4	18,443.6	8,975.1	73.7	75.4	-90.95	-9,241.7	688.5	970.0	821.2	148.86	6.516		
18,400.0	8,960.5	18,508.6	8,975.2	74.2	75.8	-90.95	-9,306.7	687.9	970.0	820.2	149.83	6.474		
18,430.0	8,960.5	18,538.6	8,975.2	74.4	76.1	-90.95	-9,336.7	687.7	970.0	819.8	150.28	6.455		
18,500.0	8,960.6	18,608.6	8,975.3	74.9	76.6	-90.95	-9,406.7	687.1	970.0	818.7	151.32	6.411		
18,525.0	8,960.6	18,633.6	8,975.3	75.1	76.8	-90.95	-9,431.7	686.8	970.0	818.4	151.69	6.395		
18,600.0	8,960.8	18,708.6	8,975.4	75.7	77.3	-90.95	-9,506.7	686.2	970.0	817.2	152.80	6.348		
18,620.0	8,960.8	18,728.6	8,975.4	75.8	77.5	-90.95	-9,526.7	686.0	970.0	816.9	153.10	6.336		
18,700.0	8,960.9	18,808.6	8,975.5	76.4	78.0	-90.94	-9,606.7	685.3	970.0	815.8	154.29	6.287		
18,715.0	8,960.9	18,823.6	8,975.5	76.5	78.1	-90.94	-9,621.7	685.1	970.0	815.5	154.52	6.278		
18,800.0	8,961.1	18,908.6	8,975.6	77.2	78.8	-90.94	-9,706.7	684.4	970.0	814.3	155.78	6.227		
18,810.0	8,961.1	18,918.6	8,975.6	77.3	78.8	-90.94	-9,716.7	684.3	970.0	814.1	155.93	6.221		
18,900.0	8,961.2	19,008.6	8,975.7	77.9	79.5	-90.94	-9,806.7	683.5	970.1	812.8	157.27	6.168		
18,905.0	8,961.2	19,013.6	8,975.7	78.0	79.5	-90.94	-9,811.7	683.5	970.1	812.7	157.35	6.165		
19,000.0	8,961.3	19,108.6	8,975.8	78.7	80.2	-90.94	-9,906.7	682.6	970.1	811.3	158.76	6.110		
19,095.0	8,961.5	19,203.6	8,975.9	79.4	80.9	-90.93	-10,001.7	681.8	970.1	809.9	160.18	6.056		
19,100.0	8,961.5	19,208.6	8,975.9	79.4	81.0	-90.93	-10,006.7	681.7	970.1	809.8	160.26	6.053		
19,190.0	8,961.6	19,298.6	8,976.0	80.1	81.7	-90.93	-10,096.7	680.9	970.1	808.5	161.60	6.003		
19,200.0	8,961.6	19,308.6	8,976.0	80.2	81.7	-90.93	-10,106.7	680.9	970.1	808.3	161.75	5.997		
19,285.0	8,961.8	19,393.6	8,976.1	80.8	82.4	-90.93	-10,191.7	680.1	970.1	807.0	163.02	5.951		
19,300.0	8,961.8	19,408.6	8,976.1	80.9	82.5	-90.93	-10,206.7	680.0	970.1	806.8	163.24	5.942		
19,380.0	8,961.9	19,488.6	8,976.2	81.5	83.1	-90.93	-10,286.7	679.3	970.1	805.6	164.44	5.899		
19,400.0	8,961.9	19,508.6	8,976.2	81.7	83.2	-90.92	-10,306.7	679.1	970.1	805.3	164.74	5.889		
19,475.0	8,962.1	19,583.6	8,976.3	82.3	83.8	-90.92	-10,381.7	678.4	970.1	804.2	165.86	5.849		
19,500.0	8,962.1	19,608.6	8,976.3	82.4	83.9	-90.92	-10,406.7	678.2	970.1	803.8	166.23	5.836		
19,570.0	8,962.2	19,678.6	8,976.4	83.0	84.5	-90.92	-10,476.7	677.6	970.1	802.8	167.28	5.799		
19,600.0	8,962.2	19,708.6	8,976.4	83.2	84.7	-90.92	-10,506.7	677.3	970.1	802.3	167.73	5.784		
19,665.0	8,962.3	19,773.6	8,976.5	83.7	85.2	-90.92	-10,571.7	676.7	970.1	801.4	168.70	5.750		
19,700.0	8,962.4	19,808.6	8,976.5	83.9	85.4	-90.92	-10,606.7	676.4	970.1	800.8	169.22	5.733		
19,760.0	8,962.5	19,868.6	8,976.6	84.4	85.9	-90.91	-10,666.7	675.9	970.1	799.9	170.12	5.702		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS						Rule Assigned:				Offset Well Error:	3.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
19,800.0	8,962.5	19,908.6	8,976.6	84.7	86.2	-90.91	-10,706.7	675.5	970.1	799.3	170.72	5.682		
19,855.0	8,962.6	19,963.6	8,976.7	85.1	86.6	-90.91	-10,761.7	675.1	970.1	798.5	171.54	5.655		
19,900.0	8,962.7	20,008.6	8,976.7	85.5	86.9	-90.91	-10,806.7	674.7	970.1	797.8	172.21	5.633		
19,950.0	8,962.8	20,058.6	8,976.8	85.8	87.3	-90.91	-10,856.7	674.2	970.1	797.1	172.96	5.609		
20,000.0	8,962.8	20,108.6	8,976.8	86.2	87.6	-90.91	-10,906.7	673.8	970.1	796.4	173.71	5.584		
20,045.0	8,962.9	20,153.6	8,976.8	86.5	88.0	-90.91	-10,951.7	673.4	970.1	795.7	174.38	5.563		
20,100.0	8,963.0	20,208.6	8,976.9	87.0	88.4	-90.91	-11,006.6	672.9	970.1	794.9	175.21	5.537		
20,140.0	8,963.0	20,248.6	8,976.9	87.3	88.7	-90.90	-11,046.6	672.5	970.1	794.3	175.81	5.518		
20,200.0	8,963.1	20,308.6	8,977.0	87.7	89.1	-90.90	-11,106.6	672.0	970.1	793.4	176.71	5.490		
20,235.0	8,963.2	20,343.6	8,977.0	88.0	89.4	-90.90	-11,141.6	671.7	970.1	792.8	177.23	5.473		
20,300.0	8,963.3	20,408.6	8,977.1	88.5	89.9	-90.90	-11,206.6	671.1	970.1	791.9	178.21	5.444		
20,330.0	8,963.3	20,438.6	8,977.1	88.7	90.1	-90.90	-11,236.6	670.8	970.1	791.4	178.66	5.430		
20,400.0	8,963.4	20,508.6	8,977.2	89.2	90.6	-90.90	-11,306.6	670.2	970.1	790.4	179.70	5.398		
20,425.0	8,963.5	20,533.6	8,977.2	89.4	90.8	-90.90	-11,331.6	670.0	970.1	790.0	180.08	5.387		
20,500.0	8,963.6	20,608.6	8,977.3	90.0	91.4	-90.89	-11,406.6	669.3	970.1	788.9	181.20	5.353		
20,520.0	8,963.6	20,628.6	8,977.3	90.1	91.5	-90.89	-11,426.6	669.2	970.1	788.6	181.50	5.345		
20,600.0	8,963.7	20,708.6	8,977.4	90.7	92.1	-90.89	-11,506.6	668.5	970.1	787.4	182.70	5.310		
20,615.0	8,963.7	20,723.6	8,977.4	90.8	92.2	-90.89	-11,521.6	668.3	970.1	787.1	182.93	5.303		
20,700.0	8,963.9	20,808.6	8,977.5	91.5	92.8	-90.89	-11,606.6	667.6	970.1	785.9	184.21	5.266		
20,710.0	8,963.9	20,818.6	8,977.5	91.6	92.9	-90.89	-11,616.6	667.5	970.1	785.7	184.36	5.262		
20,800.0	8,964.0	20,908.6	8,977.6	92.2	93.6	-90.89	-11,706.6	666.7	970.1	784.4	185.71	5.224		
20,805.0	8,964.0	20,913.6	8,977.6	92.3	93.6	-90.89	-11,711.6	666.6	970.1	784.3	185.78	5.222		
20,900.0	8,964.2	21,008.6	8,977.7	93.0	94.3	-90.88	-11,806.6	665.8	970.1	782.9	187.21	5.182		
20,995.0	8,964.3	21,103.6	8,977.8	93.7	95.0	-90.88	-11,901.6	665.0	970.1	781.4	188.64	5.143		
21,000.0	8,964.3	21,108.6	8,977.8	93.8	95.1	-90.88	-11,906.6	664.9	970.1	781.4	188.71	5.141		
21,090.0	8,964.4	21,198.6	8,977.9	94.4	95.8	-90.88	-11,996.6	664.1	970.1	780.0	190.06	5.104		
21,100.0	8,964.5	21,208.6	8,977.9	94.5	95.8	-90.88	-12,006.6	664.0	970.1	779.9	190.21	5.100		
21,185.0	8,964.6	21,293.6	8,978.0	95.2	96.5	-90.87	-12,091.6	663.3	970.1	778.6	191.49	5.066		
21,200.0	8,964.6	21,308.6	8,978.0	95.3	96.6	-90.87	-12,106.6	663.1	970.1	778.4	191.72	5.060		
21,280.0	8,964.7	21,388.6	8,978.1	95.9	97.2	-90.87	-12,186.6	662.4	970.1	777.2	192.92	5.028		
21,300.0	8,964.8	21,408.6	8,978.1	96.0	97.3	-90.87	-12,206.6	662.3	970.1	776.9	193.22	5.021		
21,375.0	8,964.9	21,483.6	8,978.2	96.6	97.9	-90.87	-12,281.6	661.6	970.1	775.7	194.35	4.992		
21,400.0	8,964.9	21,508.6	8,978.2	96.8	98.1	-90.87	-12,306.6	661.4	970.1	775.4	194.72	4.982		
21,470.0	8,965.0	21,578.6	8,978.3	97.3	98.6	-90.87	-12,376.6	660.7	970.1	774.3	195.78	4.955		
21,500.0	8,965.0	21,608.6	8,978.3	97.5	98.8	-90.87	-12,406.6	660.5	970.1	773.9	196.23	4.944		
21,565.0	8,965.1	21,673.6	8,978.4	98.0	99.3	-90.86	-12,471.6	659.9	970.1	772.9	197.20	4.919		
21,600.0	8,965.2	21,708.6	8,978.4	98.3	99.6	-90.86	-12,506.6	659.6	970.1	772.4	197.73	4.906		
21,660.0	8,965.3	21,768.6	8,978.5	98.7	100.0	-90.86	-12,566.6	659.1	970.1	771.5	198.63	4.884		
21,700.0	8,965.3	21,808.6	8,978.5	99.0	100.3	-90.86	-12,606.6	658.7	970.1	770.9	199.24	4.869		
21,755.0	8,965.4	21,863.6	8,978.6	99.5	100.7	-90.86	-12,661.6	658.2	970.1	770.0	200.06	4.849		
21,800.0	8,965.5	21,908.6	8,978.6	99.8	101.1	-90.86	-12,706.6	657.8	970.1	769.3	200.74	4.833		
21,850.0	8,965.6	21,958.6	8,978.7	100.2	101.4	-90.86	-12,756.6	657.4	970.1	768.6	201.49	4.814		
21,900.0	8,965.6	22,008.6	8,978.7	100.6	101.8	-90.85	-12,806.6	656.9	970.1	767.8	202.25	4.797		
21,945.0	8,965.7	22,053.6	8,978.8	100.9	102.1	-90.85	-12,851.6	656.5	970.1	767.2	202.92	4.781		
22,000.0	8,965.8	22,108.6	8,978.8	101.3	102.5	-90.85	-12,906.6	656.1	970.1	766.3	203.75	4.761		
22,040.0	8,965.8	22,148.6	8,978.9	101.6	102.8	-90.85	-12,946.6	655.7	970.1	765.7	204.35	4.747		
22,100.0	8,965.9	22,208.6	8,978.9	102.1	103.3	-90.85	-13,006.6	655.2	970.1	764.8	205.26	4.726		
22,135.0	8,966.0	22,243.6	8,979.0	102.3	103.6	-90.85	-13,041.6	654.9	970.1	764.3	205.79	4.714		
22,200.0	8,966.1	22,308.6	8,979.0	102.8	104.0	-90.85	-13,106.6	654.3	970.1	763.3	206.76	4.692		
22,230.0	8,966.1	22,338.6	8,979.0	103.1	104.3	-90.85	-13,136.6	654.0	970.1	762.9	207.22	4.682		
22,300.0	8,966.2	22,408.6	8,979.1	103.6	104.8	-90.84	-13,206.6	653.4	970.1	761.8	208.27	4.658		

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS						Rule Assigned:				Offset Well Error:	3.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance					
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	
22,325.0	8,966.3	22,433.6	8,979.1	103.8	105.0	-90.84	-13,231.6	653.2	970.1	761.4	208.65	4.649		
22,400.0	8,966.4	22,508.6	8,979.2	104.3	105.5	-90.84	-13,306.6	652.5	970.1	760.3	209.78	4.624		
22,420.0	8,966.4	22,528.6	8,979.2	104.5	105.7	-90.84	-13,326.6	652.3	970.1	760.0	210.08	4.618		
22,500.0	8,966.5	22,608.6	8,979.3	105.1	106.3	-90.84	-13,406.6	651.6	970.1	758.8	211.29	4.591		
22,515.0	8,966.6	22,623.6	8,979.3	105.2	106.4	-90.84	-13,421.6	651.5	970.1	758.6	211.51	4.587		
22,600.0	8,966.7	22,708.6	8,979.4	105.9	107.0	-90.84	-13,506.6	650.7	970.1	757.3	212.79	4.559		
22,610.0	8,966.7	22,718.6	8,979.4	105.9	107.1	-90.84	-13,516.5	650.7	970.1	757.2	212.94	4.556		
22,700.0	8,966.8	22,808.6	8,979.5	106.6	107.8	-90.83	-13,606.5	649.9	970.1	755.8	214.30	4.527		
22,705.0	8,966.8	22,813.6	8,979.5	106.6	107.8	-90.83	-13,611.5	649.8	970.1	755.7	214.38	4.525		
22,800.0	8,967.0	22,908.6	8,979.6	107.4	108.5	-90.83	-13,706.5	649.0	970.1	754.3	215.81	4.495		
22,895.0	8,967.1	23,003.6	8,979.7	108.1	109.3	-90.83	-13,801.5	648.1	970.1	752.9	217.24	4.466		
22,900.0	8,967.1	23,008.6	8,979.7	108.1	109.3	-90.83	-13,806.5	648.1	970.1	752.8	217.32	4.464		
22,990.0	8,967.3	23,098.6	8,979.8	108.8	110.0	-90.82	-13,896.5	647.3	970.1	751.4	218.68	4.436		
23,000.0	8,967.3	23,108.6	8,979.8	108.9	110.0	-90.82	-13,906.5	647.2	970.1	751.3	218.83	4.433		
23,085.0	8,967.4	23,193.6	8,979.9	109.5	110.7	-90.82	-13,991.5	646.4	970.1	750.0	220.11	4.407		
23,100.0	8,967.4	23,208.6	8,979.9	109.6	110.8	-90.82	-14,006.5	646.3	970.1	749.8	220.34	4.403		
23,180.0	8,967.5	23,288.6	8,980.0	110.2	111.4	-90.82	-14,086.5	645.6	970.1	748.6	221.54	4.379		
23,200.0	8,967.6	23,308.6	8,980.0	110.4	111.5	-90.82	-14,106.5	645.4	970.1	748.3	221.84	4.373		
23,275.0	8,967.7	23,383.6	8,980.1	111.0	112.1	-90.82	-14,181.5	644.8	970.1	747.1	222.98	4.351		
23,300.0	8,967.7	23,408.6	8,980.1	111.2	112.3	-90.82	-14,206.5	644.5	970.1	746.8	223.35	4.343		
23,370.0	8,967.8	23,478.6	8,980.2	111.7	112.8	-90.81	-14,276.5	643.9	970.1	745.7	224.41	4.323		
23,400.0	8,967.9	23,508.6	8,980.2	111.9	113.0	-90.81	-14,306.5	643.7	970.1	745.2	224.86	4.314		
23,465.0	8,968.0	23,573.6	8,980.3	112.4	113.5	-90.81	-14,371.5	643.1	970.1	744.3	225.85	4.295		
23,500.0	8,968.0	23,608.6	8,980.3	112.7	113.8	-90.81	-14,406.5	642.8	970.1	743.7	226.37	4.285		
23,560.0	8,968.1	23,668.6	8,980.4	113.1	114.2	-90.81	-14,466.5	642.2	970.1	742.8	227.28	4.268		
23,600.0	8,968.2	23,708.6	8,980.4	113.4	114.5	-90.81	-14,506.5	641.9	970.1	742.2	227.88	4.257		
23,655.0	8,968.2	23,763.6	8,980.5	113.8	115.0	-90.81	-14,561.5	641.4	970.1	741.4	228.72	4.242		
23,700.0	8,968.3	23,808.6	8,980.5	114.2	115.3	-90.80	-14,606.5	641.0	970.1	740.7	229.39	4.229		
23,750.0	8,968.4	23,858.6	8,980.6	114.6	115.7	-90.80	-14,656.5	640.6	970.1	740.0	230.15	4.215		
23,800.0	8,968.5	23,908.6	8,980.6	114.9	116.0	-90.80	-14,706.5	640.1	970.1	739.2	230.91	4.201		
23,845.0	8,968.5	23,953.6	8,980.7	115.3	116.4	-90.80	-14,751.5	639.7	970.1	738.5	231.59	4.189		
23,900.0	8,968.6	24,008.6	8,980.7	115.7	116.8	-90.80	-14,806.5	639.2	970.1	737.7	232.42	4.174		
23,940.0	8,968.7	24,048.6	8,980.8	116.0	117.1	-90.80	-14,846.5	638.9	970.1	737.1	233.02	4.163		
24,000.0	8,968.7	24,108.6	8,980.8	116.5	117.6	-90.80	-14,906.5	638.3	970.1	736.2	233.93	4.147		
24,035.0	8,968.8	24,143.6	8,980.9	116.7	117.8	-90.80	-14,941.5	638.0	970.1	735.7	234.46	4.138		
24,040.2	8,968.8	24,148.8	8,980.9	116.8	117.9	-90.80	-14,946.7	638.0	970.1	735.6	234.53	4.136		
24,100.0	8,968.9	24,208.6	8,980.9	117.2	118.3	-90.79	-15,006.5	637.5	970.1	734.7	235.44	4.121		
24,130.0	8,968.9	24,238.6	8,981.0	117.4	118.5	-90.79	-15,036.5	637.2	970.1	734.2	235.89	4.113		
24,133.8	8,968.9	24,242.5	8,981.0	117.5	118.6	-90.79	-15,040.3	637.2	970.1	734.2	235.95	4.112		
24,170.2	8,969.0	24,278.2	8,981.0	117.8	118.8	-90.79	-15,076.0	636.8	970.1	733.6	236.49	4.102		
24,170.7	8,969.0	24,278.2	8,981.0	117.8	118.8	-90.79	-15,076.0	636.8	970.1	733.6	236.50	4.102 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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	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		
0.0	0.0	0.0	0.0	3.0	3.0	89.05	0.5	30.0	30.0					
95.0	95.0	94.3	94.3	3.0	3.0	89.05	0.5	30.0	30.0	24.0	6.04	4.971		
100.0	100.0	99.3	99.3	3.0	3.0	89.05	0.5	30.0	30.0	24.0	6.04	4.967		
190.0	190.0	189.3	189.3	3.1	3.1	89.05	0.5	30.0	30.0	23.8	6.25	4.800		
200.0	200.0	199.3	199.3	3.1	3.1	89.05	0.5	30.0	30.0	23.7	6.29	4.774		
285.0	285.0	284.3	284.3	3.3	3.2	89.05	0.5	30.0	30.0	23.5	6.48	4.629		
300.0	300.0	299.3	299.3	3.3	3.3	89.05	0.5	30.0	30.0	23.5	6.52	4.601		
380.0	380.0	379.3	379.3	3.4	3.4	89.05	0.5	30.0	30.0	23.3	6.70	4.478		
400.0	400.0	399.3	399.3	3.4	3.4	89.05	0.5	30.0	30.0	23.3	6.75	4.445		
475.0	475.0	474.3	474.3	3.5	3.5	89.05	0.5	30.0	30.0	23.1	6.91	4.340		
500.0	500.0	499.3	499.3	3.5	3.5	89.05	0.5	30.0	30.0	23.0	6.97	4.305		
570.0	570.0	569.3	569.3	3.6	3.6	89.05	0.5	30.0	30.0	22.9	7.12	4.215		
600.0	600.0	599.3	599.3	3.6	3.6	89.05	0.5	30.0	30.0	22.8	7.18	4.177		
665.0	665.0	664.3	664.3	3.7	3.7	89.05	0.5	30.0	30.0	22.7	7.32	4.100		
700.0	700.0	699.3	699.3	3.8	3.8	89.05	0.5	30.0	30.0	22.6	7.39	4.059		
760.0	760.0	759.3	759.3	3.8	3.8	89.05	0.5	30.0	30.0	22.5	7.51	3.995		
800.0	800.0	799.3	799.3	3.9	3.9	89.05	0.5	30.0	30.0	22.4	7.59	3.951		
855.0	855.0	854.3	854.3	4.0	3.9	89.05	0.5	30.0	30.0	22.3	7.70	3.896		
900.0	900.0	899.3	899.3	4.0	4.0	89.05	0.5	30.0	30.0	22.2	7.79	3.852		
950.0	950.0	949.3	949.3	4.1	4.1	89.05	0.5	30.0	30.0	22.1	7.88	3.805		
1,000.0	1,000.0	999.3	999.3	4.1	4.1	89.05	0.5	30.0	30.0	22.0	7.98	3.759		
1,045.0	1,045.0	1,044.3	1,044.3	4.2	4.2	89.05	0.5	30.0	30.0	21.9	8.07	3.720		
1,100.0	1,100.0	1,099.3	1,099.3	4.2	4.2	89.05	0.5	30.0	30.0	21.8	8.17	3.673		
1,140.0	1,140.0	1,139.3	1,139.3	4.3	4.3	89.05	0.5	30.0	30.0	21.8	8.24	3.641		
1,200.0	1,200.0	1,199.3	1,199.3	4.4	4.4	89.05	0.5	30.0	30.0	21.7	8.35	3.592		
1,235.0	1,235.0	1,234.3	1,234.3	4.4	4.4	89.05	0.5	30.0	30.0	21.6	8.41	3.566		
1,300.0	1,300.0	1,299.3	1,299.3	4.5	4.5	89.05	0.5	30.0	30.0	21.5	8.53	3.517		
1,330.0	1,330.0	1,329.3	1,329.3	4.5	4.5	89.05	0.5	30.0	30.0	21.4	8.58	3.496		
1,400.0	1,400.0	1,399.3	1,399.3	4.6	4.6	89.05	0.5	30.0	30.0	21.3	8.71	3.446		
1,425.0	1,425.0	1,424.3	1,424.3	4.6	4.6	89.05	0.5	30.0	30.0	21.3	8.75	3.429		
1,500.0	1,500.0	1,499.3	1,499.3	4.7	4.7	89.05	0.5	30.0	30.0	21.1	8.88	3.379 CC, ES		
1,520.0	1,520.0	1,519.2	1,519.2	4.8	4.8	116.89	0.6	30.0	30.1	21.2	8.92	3.370		
1,600.0	1,600.0	1,598.7	1,598.7	4.9	4.9	117.13	1.9	31.0	31.8	22.7	9.10	3.492		
1,615.0	1,615.0	1,613.6	1,613.5	4.9	4.9	117.20	2.4	31.3	32.4	23.2	9.16	3.533		
1,700.0	1,699.8	1,697.9	1,697.7	5.2	5.1	117.68	6.1	33.8	37.1	27.7	9.48	3.917		
1,710.0	1,709.8	1,707.8	1,707.6	5.2	5.2	117.74	6.7	34.2	37.9	28.3	9.52	3.978		
1,800.0	1,799.5	1,796.7	1,796.1	5.4	5.4	118.27	13.2	38.6	46.1	36.2	9.86	4.669		
1,805.0	1,804.4	1,801.6	1,801.0	5.4	5.4	118.29	13.6	38.9	46.6	36.7	9.88	4.715		
1,900.0	1,898.7	1,894.9	1,893.6	5.7	5.7	118.74	22.9	45.3	58.5	48.3	10.25	5.709		
1,925.1	1,923.5	1,919.4	1,917.9	5.8	5.7	118.83	25.8	47.3	62.2	51.9	10.30	6.041		
1,995.0	1,992.7	1,988.1	1,985.8	5.9	5.9	118.83	34.6	53.2	73.1	62.6	10.46	6.987		
2,000.0	1,997.6	1,993.1	1,990.7	5.9	5.9	118.82	35.2	53.7	73.8	63.4	10.47	7.054		
2,090.0	2,086.6	2,081.9	2,078.5	6.1	6.1	118.69	46.7	61.5	87.9	77.1	10.80	8.145		
2,100.0	2,096.5	2,091.8	2,088.2	6.2	6.1	118.68	48.0	62.4	89.5	78.7	10.83	8.262		
2,185.0	2,180.6	2,175.8	2,171.1	6.4	6.4	118.60	58.8	69.8	102.8	91.7	11.16	9.213		
2,200.0	2,195.4	2,190.6	2,185.8	6.4	6.4	118.59	60.7	71.1	105.2	94.0	11.22	9.375		
2,280.0	2,274.5	2,269.6	2,263.8	6.7	6.6	118.53	70.9	78.0	117.7	106.2	11.53	10.206		
2,300.0	2,294.3	2,289.3	2,283.3	6.7	6.7	118.52	73.5	79.8	120.8	109.2	11.61	10.406		
2,375.0	2,368.5	2,363.4	2,356.5	7.0	6.9	118.47	83.1	86.3	132.6	120.7	11.92	11.128		
2,400.0	2,393.2	2,388.1	2,380.9	7.0	7.0	118.46	86.3	88.5	136.5	124.5	12.02	11.360		
2,470.0	2,462.5	2,457.2	2,449.1	7.3	7.2	118.43	95.2	94.6	147.5	135.2	12.31	11.985		

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #707H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8417-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Offset Wellbore Centre	Distance	Rule Assigned:								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
2,500.0	2,492.1	2,486.9	2,478.4	7.4	7.3	118.42	99.0	97.2	152.2	139.8	12.43	12.243	
2,565.0	2,556.4	2,551.1	2,541.8	7.6	7.5	118.39	107.3	102.9	162.4	149.7	12.70	12.782	
2,600.0	2,591.0	2,585.6	2,576.0	7.7	7.7	118.38	111.8	105.9	167.9	155.0	12.85	13.062	
2,660.0	2,650.4	2,644.9	2,634.5	7.9	7.9	118.36	119.5	111.1	177.3	164.2	13.11	13.524	
2,700.0	2,689.9	2,684.4	2,673.5	8.1	8.0	118.35	124.6	114.6	183.5	170.2	13.28	13.821	
2,755.0	2,744.3	2,738.7	2,727.2	8.2	8.2	118.34	131.6	119.4	192.1	178.6	13.52	14.215	
2,800.0	2,788.8	2,783.2	2,771.1	8.4	8.4	118.33	137.3	123.3	199.2	185.5	13.71	14.527	
2,850.0	2,838.3	2,832.6	2,819.8	8.6	8.5	118.32	143.7	127.7	207.0	193.1	13.93	14.860	
2,900.0	2,887.7	2,881.9	2,868.6	8.8	8.7	118.31	150.1	132.0	214.9	200.7	14.15	15.183	
2,945.0	2,932.2	2,926.4	2,912.5	8.9	8.9	118.30	155.8	136.0	221.9	207.6	14.35	15.463	
3,000.0	2,986.6	2,980.7	2,966.2	9.1	9.1	118.29	162.9	140.7	230.5	215.9	14.60	15.794	
3,040.0	3,026.2	3,020.2	3,005.2	9.3	9.2	118.28	168.0	144.2	236.8	222.0	14.78	16.026	
3,100.0	3,085.5	3,079.5	3,063.7	9.5	9.5	118.27	175.6	149.4	246.2	231.2	15.05	16.363	
3,135.0	3,120.1	3,114.0	3,097.8	9.6	9.6	118.27	180.1	152.5	251.7	236.5	15.20	16.553	
3,200.0	3,184.4	3,178.2	3,161.3	9.9	9.8	118.26	188.4	158.2	261.9	246.4	15.50	16.895	
3,230.0	3,214.1	3,207.9	3,190.5	10.0	9.9	118.26	192.2	160.8	266.6	250.9	15.64	17.048	
3,300.0	3,283.3	3,277.0	3,258.8	10.3	10.2	118.25	201.2	166.9	277.5	261.6	15.96	17.392	
3,325.0	3,308.1	3,301.7	3,283.2	10.4	10.3	118.24	204.4	169.0	281.5	265.4	16.07	17.511	
3,400.0	3,382.2	3,375.8	3,356.3	10.7	10.6	118.24	213.9	175.6	293.2	276.8	16.42	17.858	
3,420.0	3,402.0	3,395.5	3,375.9	10.7	10.7	118.23	216.5	177.3	296.4	279.8	16.51	17.947	
3,500.0	3,481.1	3,474.5	3,453.9	11.1	11.0	118.23	226.7	184.3	308.9	292.0	16.88	18.294	
3,515.0	3,496.0	3,489.3	3,468.5	11.1	11.1	118.22	228.6	185.6	311.2	294.3	16.95	18.357	
3,600.0	3,580.0	3,573.3	3,551.4	11.5	11.4	118.22	239.5	193.0	324.6	307.2	17.35	18.704	
3,610.0	3,589.9	3,583.2	3,561.2	11.5	11.4	118.22	240.7	193.9	326.1	308.7	17.40	18.743	
3,700.0	3,678.9	3,672.0	3,649.0	11.9	11.8	118.21	252.2	201.7	340.2	322.4	17.82	19.089	
3,705.0	3,683.9	3,677.0	3,653.9	11.9	11.8	118.21	252.9	202.1	341.0	323.2	17.85	19.108	
3,800.0	3,777.8	3,770.8	3,746.5	12.3	12.2	118.20	265.0	210.4	355.9	337.6	18.30	19.451	
3,895.0	3,871.8	3,864.6	3,839.2	12.6	12.6	118.20	277.1	218.7	370.8	352.0	18.75	19.776	
3,900.0	3,876.7	3,869.6	3,844.1	12.7	12.6	118.20	277.8	219.1	371.6	352.8	18.77	19.793	
3,990.0	3,965.8	3,958.5	3,931.9	13.0	13.0	118.19	289.3	226.9	385.7	366.5	19.20	20.084	
4,000.0	3,975.6	3,968.3	3,941.6	13.1	13.0	118.19	290.5	227.8	387.2	368.0	19.25	20.116	
4,085.0	4,059.7	4,052.3	4,024.6	13.4	13.4	118.18	301.4	235.2	400.6	380.9	19.66	20.376	
4,100.0	4,074.5	4,067.1	4,039.2	13.5	13.4	118.18	303.3	236.5	402.9	383.2	19.73	20.420	
4,127.7	4,101.9	4,094.5	4,066.2	13.6	13.5	118.18	306.8	238.9	407.2	387.4	19.85	20.518	
4,180.0	4,153.7	4,146.1	4,117.2	13.8	13.8	118.22	313.5	243.5	415.3	395.2	20.09	20.678	
4,200.0	4,173.5	4,165.9	4,136.8	13.9	13.8	118.22	316.1	245.2	418.4	398.2	20.18	20.735	
4,275.0	4,247.9	4,241.4	4,211.3	14.2	14.1	118.15	325.8	251.8	429.4	408.9	20.53	20.915	
4,300.0	4,272.7	4,267.2	4,236.8	14.3	14.2	118.12	328.9	254.0	432.9	412.2	20.65	20.961	
4,370.0	4,342.3	4,339.6	4,308.6	14.5	14.5	118.03	337.3	259.7	442.1	421.1	20.99	21.062	
4,400.0	4,372.1	4,370.8	4,339.4	14.6	14.7	117.99	340.7	262.0	445.7	424.6	21.13	21.090	
4,465.0	4,436.8	4,438.3	4,406.4	14.9	14.9	117.90	347.6	266.7	453.1	431.7	21.44	21.133	
4,500.0	4,471.7	4,474.7	4,442.6	15.0	15.1	117.85	351.0	269.1	456.7	435.1	21.60	21.142	
4,560.0	4,531.5	4,537.2	4,504.8	15.2	15.3	117.75	356.4	272.8	462.5	440.6	21.87	21.142	
4,600.0	4,571.4	4,579.0	4,546.4	15.4	15.5	117.69	359.8	275.0	465.9	443.9	22.05	21.127	
4,655.0	4,626.3	4,636.5	4,603.6	15.6	15.7	117.60	363.9	277.9	470.2	447.9	22.29	21.094	
4,700.0	4,671.2	4,683.5	4,650.6	15.7	15.9	117.52	367.0	279.9	473.3	450.8	22.48	21.051	
4,750.0	4,721.2	4,735.9	4,702.8	15.9	16.1	117.43	370.0	282.0	476.3	453.6	22.69	20.994	
4,800.0	4,771.1	4,788.3	4,755.1	16.0	16.2	117.34	372.6	283.8	478.9	456.0	22.89	20.921	
4,845.0	4,816.1	4,835.5	4,802.3	16.2	16.4	117.25	374.7	285.2	480.8	457.7	23.06	20.849	
4,900.0	4,871.1	4,893.3	4,859.9	16.3	16.6	117.14	376.7	286.6	482.6	459.3	23.26	20.744	
4,940.0	4,911.1	4,935.3	4,901.9	16.4	16.7	117.05	377.9	287.4	483.6	460.2	23.38	20.681	

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #707H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8417-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	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)		
4,977.9	4,949.0	4,975.1	4,941.7	16.4	16.8	89.14	378.8	288.0	484.2	460.7	23.49	20.611	
5,000.0	4,971.1	4,998.3	4,965.0	16.4	16.9	89.09	379.2	288.3	484.5	460.9	23.54	20.579	
5,035.0	5,006.1	5,035.1	5,001.7	16.5	17.0	89.03	379.7	288.6	484.8	461.2	23.63	20.519	
5,100.0	5,071.1	5,103.5	5,070.1	16.5	17.1	88.98	380.1	288.9	485.1	461.3	23.78	20.400	
5,130.0	5,101.1	5,133.8	5,100.4	16.5	17.2	88.98	380.1	288.9	485.1	461.3	23.82	20.364	
5,200.0	5,171.1	5,203.8	5,170.4	16.6	17.2	88.98	380.1	288.9	485.1	461.2	23.92	20.279	
5,225.0	5,196.1	5,228.8	5,195.4	16.6	17.2	88.98	380.1	288.9	485.1	461.1	23.96	20.247	
5,300.0	5,271.1	5,303.8	5,270.4	16.6	17.2	88.98	380.1	288.9	485.1	461.0	24.07	20.151	
5,320.0	5,291.1	5,323.8	5,290.4	16.6	17.2	88.98	380.1	288.9	485.1	461.0	24.10	20.126	
5,400.0	5,371.1	5,403.8	5,370.4	16.7	17.3	88.98	380.1	288.9	485.1	460.9	24.22	20.026	
5,415.0	5,386.1	5,418.8	5,385.4	16.7	17.3	88.98	380.1	288.9	485.1	460.8	24.25	20.007	
5,500.0	5,471.1	5,503.8	5,470.4	16.7	17.3	88.98	380.1	288.9	485.1	460.7	24.37	19.901	
5,510.0	5,481.1	5,513.8	5,480.4	16.7	17.4	88.98	380.1	288.9	485.1	460.7	24.39	19.889	
5,600.0	5,571.1	5,603.8	5,570.4	16.8	17.4	88.98	380.1	288.9	485.1	460.6	24.53	19.778	
5,605.0	5,576.1	5,608.8	5,575.4	16.8	17.4	88.98	380.1	288.9	485.1	460.5	24.53	19.772	
5,700.0	5,671.1	5,703.8	5,670.4	16.8	17.5	88.98	380.1	288.9	485.1	460.4	24.68	19.656	
5,795.0	5,766.1	5,798.8	5,765.4	16.9	17.5	88.98	380.1	288.9	485.1	460.3	24.82	19.542	
5,800.0	5,771.1	5,803.8	5,770.4	16.9	17.5	88.98	380.1	288.9	485.1	460.2	24.83	19.536	
5,890.0	5,861.1	5,893.8	5,860.4	17.0	17.6	88.98	380.1	288.9	485.1	460.1	24.97	19.429	
5,900.0	5,871.1	5,903.8	5,870.4	17.0	17.6	88.98	380.1	288.9	485.1	460.1	24.98	19.417	
5,985.0	5,956.1	5,988.8	5,955.4	17.0	17.6	88.98	380.1	288.9	485.1	460.0	25.11	19.317	
6,000.0	5,971.1	6,003.8	5,970.4	17.0	17.6	88.98	380.1	288.9	485.1	459.9	25.13	19.300	
6,080.0	6,051.1	6,083.8	6,050.4	17.1	17.7	88.98	380.1	288.9	485.1	459.8	25.26	19.207	
6,100.0	6,071.1	6,103.8	6,070.4	17.1	17.7	88.98	380.1	288.9	485.1	459.8	25.29	19.183	
6,175.0	6,146.1	6,178.8	6,145.4	17.1	17.7	88.98	380.1	288.9	485.1	459.7	25.40	19.097	
6,200.0	6,171.1	6,203.8	6,170.4	17.1	17.7	88.98	380.1	288.9	485.1	459.6	25.44	19.069	
6,270.0	6,241.1	6,273.8	6,240.4	17.2	17.8	88.98	380.1	288.9	485.1	459.5	25.55	18.989	
6,300.0	6,271.1	6,303.8	6,270.4	17.2	17.8	88.98	380.1	288.9	485.1	459.5	25.59	18.955	
6,365.0	6,336.1	6,368.8	6,335.4	17.2	17.8	88.98	380.1	288.9	485.1	459.4	25.69	18.882	
6,400.0	6,371.1	6,403.8	6,370.4	17.3	17.8	88.98	380.1	288.9	485.1	459.3	25.74	18.843	
6,460.0	6,431.1	6,463.8	6,430.4	17.3	17.9	88.98	380.1	288.9	485.1	459.2	25.84	18.776	
6,500.0	6,471.1	6,503.8	6,470.4	17.3	17.9	88.98	380.1	288.9	485.1	459.2	25.90	18.731	
6,555.0	6,526.1	6,558.8	6,525.4	17.3	17.9	88.98	380.1	288.9	485.1	459.1	25.98	18.671	
6,600.0	6,571.1	6,603.8	6,570.4	17.4	18.0	88.98	380.1	288.9	485.1	459.0	26.05	18.621	
6,650.0	6,621.1	6,653.8	6,620.4	17.4	18.0	88.98	380.1	288.9	485.1	459.0	26.13	18.567	
6,700.0	6,671.1	6,703.8	6,670.4	17.4	18.0	88.98	380.1	288.9	485.1	458.9	26.20	18.513	
6,745.0	6,716.1	6,748.8	6,715.4	17.5	18.0	88.98	380.1	288.9	485.1	458.8	26.27	18.464	
6,800.0	6,771.1	6,803.8	6,770.4	17.5	18.1	88.98	380.1	288.9	485.1	458.7	26.36	18.405	
6,840.0	6,811.1	6,843.8	6,810.4	17.5	18.1	88.98	380.1	288.9	485.1	458.7	26.42	18.362	
6,900.0	6,871.1	6,903.8	6,870.4	17.6	18.1	88.98	380.1	288.9	485.1	458.6	26.51	18.299	
6,935.0	6,906.1	6,938.8	6,905.4	17.6	18.2	88.98	380.1	288.9	485.1	458.5	26.56	18.262	
7,000.0	6,971.1	7,003.8	6,970.4	17.6	18.2	88.98	380.1	288.9	485.1	458.4	26.66	18.193	
7,030.0	7,001.1	7,033.8	7,000.4	17.6	18.2	88.98	380.1	288.9	485.1	458.4	26.71	18.162	
7,100.0	7,071.1	7,103.8	7,070.4	17.7	18.2	88.98	380.1	288.9	485.1	458.3	26.82	18.089	
7,125.0	7,096.1	7,128.8	7,095.4	17.7	18.3	88.98	380.1	288.9	485.1	458.2	26.85	18.064	
7,200.0	7,171.1	7,203.8	7,170.4	17.7	18.3	88.98	380.1	288.9	485.1	458.1	26.97	17.986	
7,220.0	7,191.1	7,223.8	7,190.4	17.7	18.3	88.98	380.1	288.9	485.1	458.1	27.00	17.966	
7,300.0	7,271.1	7,303.8	7,270.4	17.8	18.4	88.98	380.1	288.9	485.1	458.0	27.12	17.884	
7,315.0	7,286.1	7,318.8	7,285.4	17.8	18.4	88.98	380.1	288.9	485.1	457.9	27.15	17.869	
7,400.0	7,371.1	7,403.8	7,370.4	17.9	18.4	88.98	380.1	288.9	485.1	457.8	27.28	17.784	
7,410.0	7,381.1	7,413.8	7,380.4	17.9	18.4	88.98	380.1	288.9	485.1	457.8	27.29	17.774	

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	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	
Measured	Vertical	Measured	Vertical	Semi Major Axis		Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	Reference	Offset		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)				Separation (usft)
7,500.0	7,471.1	7,503.8	7,470.4	17.9	18.5	88.98	380.1	288.9	485.1	457.6	27.43	17.684		
7,505.0	7,476.1	7,508.8	7,475.4	17.9	18.5	88.98	380.1	288.9	485.1	457.6	27.44	17.679		
7,600.0	7,571.1	7,603.8	7,570.4	18.0	18.5	88.98	380.1	288.9	485.1	457.5	27.58	17.585		
7,695.0	7,666.1	7,698.8	7,665.4	18.0	18.6	88.98	380.1	288.9	485.1	457.3	27.73	17.492		
7,700.0	7,671.1	7,703.8	7,670.4	18.0	18.6	88.98	380.1	288.9	485.1	457.3	27.74	17.487		
7,790.0	7,761.1	7,793.8	7,760.4	18.1	18.7	88.98	380.1	288.9	485.1	457.2	27.88	17.400		
7,800.0	7,771.1	7,803.8	7,770.4	18.1	18.7	88.98	380.1	288.9	485.1	457.2	27.89	17.391		
7,885.0	7,856.1	7,888.8	7,855.4	18.2	18.7	88.98	380.1	288.9	485.1	457.1	28.02	17.309		
7,900.0	7,871.1	7,903.8	7,870.4	18.2	18.7	88.98	380.1	288.9	485.1	457.0	28.05	17.295		
7,980.0	7,951.1	7,983.8	7,950.4	18.2	18.8	88.98	380.1	288.9	485.1	456.9	28.17	17.219		
8,000.0	7,971.1	8,003.8	7,970.4	18.2	18.8	88.98	380.1	288.9	485.1	456.9	28.20	17.200		
8,075.0	8,046.1	8,078.8	8,045.4	18.3	18.8	88.98	380.1	288.9	485.1	456.8	28.32	17.130		
8,100.0	8,071.1	8,103.8	8,070.4	18.3	18.8	88.98	380.1	288.9	485.1	456.7	28.36	17.107		
8,170.0	8,141.1	8,173.8	8,140.4	18.3	18.9	88.98	380.1	288.9	485.1	456.6	28.46	17.042		
8,200.0	8,171.1	8,203.8	8,170.4	18.3	18.9	88.98	380.1	288.9	485.1	456.6	28.51	17.014		
8,265.0	8,236.1	8,268.8	8,235.4	18.4	18.9	88.98	380.1	288.9	485.1	456.5	28.61	16.954		
8,300.0	8,271.1	8,303.8	8,270.4	18.4	19.0	88.98	380.1	288.9	485.1	456.4	28.66	16.922		
8,360.0	8,331.1	8,363.8	8,330.4	18.4	19.0	88.98	380.1	288.9	485.1	456.3	28.75	16.872		
8,402.9	8,374.0	8,406.7	8,373.3	18.5	19.0	88.98	380.1	288.9	485.1	456.3	28.81	16.838		
8,450.0	8,421.1	8,454.7	8,421.3	18.5	19.0	-91.61	378.9	288.9	485.1	456.3	28.82	16.830		
8,455.0	8,426.0	8,459.8	8,426.4	18.5	19.0	-91.62	378.5	288.9	485.1	456.3	28.82	16.829		
8,500.0	8,470.7	8,505.9	8,472.2	18.6	19.1	-91.71	373.3	288.8	485.1	456.3	28.83	16.824		
8,550.0	8,519.5	8,557.2	8,522.5	18.6	19.1	-91.79	363.1	288.7	485.1	456.3	28.84	16.822		
8,600.0	8,567.3	8,608.6	8,571.7	18.7	19.2	-91.86	348.5	288.6	485.2	456.3	28.84	16.824		
8,645.0	8,609.0	8,654.9	8,614.8	18.7	19.2	-91.91	331.6	288.5	485.2	456.3	28.83	16.828		
8,650.0	8,613.5	8,660.1	8,619.5	18.7	19.2	-91.91	329.5	288.5	485.2	456.3	28.83	16.828		
8,700.0	8,658.0	8,711.5	8,665.4	18.8	19.3	-91.95	306.3	288.2	485.2	456.4	28.82	16.834		
8,740.0	8,692.0	8,752.7	8,700.5	18.9	19.3	-91.97	284.8	288.1	485.2	456.4	28.81	16.838		
8,750.0	8,700.3	8,763.0	8,709.1	18.9	19.4	-91.97	279.0	288.0	485.2	456.4	28.81	16.839		
8,800.0	8,740.1	8,814.5	8,750.1	18.9	19.4	-91.98	247.9	287.7	485.2	456.4	28.81	16.843		
8,835.0	8,766.3	8,850.6	8,777.1	19.0	19.5	-91.98	224.0	287.5	485.2	456.4	28.81	16.844		
8,850.0	8,777.1	8,866.0	8,788.2	19.0	19.5	-91.97	213.3	287.4	485.2	456.4	28.81	16.843		
8,900.0	8,811.1	8,917.5	8,823.0	19.0	19.5	-91.95	175.4	287.1	485.2	456.4	28.81	16.839		
8,930.0	8,829.9	8,948.4	8,842.2	19.1	19.6	-91.93	151.2	286.9	485.2	456.4	28.82	16.833		
8,950.0	8,841.7	8,969.0	8,854.3	19.1	19.6	-91.91	134.5	286.7	485.2	456.3	28.83	16.827		
9,000.0	8,868.8	9,020.4	8,881.7	19.2	19.6	-91.86	91.0	286.3	485.2	456.3	28.87	16.807		
9,025.0	8,880.9	9,046.1	8,894.0	19.2	19.7	-91.82	68.4	286.1	485.2	456.3	28.89	16.794		
9,050.0	8,892.1	9,071.8	8,905.1	19.2	19.7	-91.79	45.3	285.9	485.1	456.2	28.92	16.778		
9,100.0	8,911.4	9,123.1	8,924.4	19.3	19.7	-91.71	-2.2	285.5	485.1	456.1	28.98	16.738		
9,120.0	8,918.0	9,143.6	8,930.8	19.3	19.7	-91.67	-21.7	285.3	485.1	456.1	29.02	16.719		
9,150.0	8,926.7	9,174.4	8,939.2	19.3	19.8	-91.61	-51.3	285.1	485.1	456.0	29.07	16.687		
9,200.0	8,937.8	9,225.5	8,949.6	19.3	19.8	-91.50	-101.3	284.6	485.1	455.9	29.18	16.625		
9,215.0	8,940.3	9,240.9	8,951.9	19.3	19.8	-91.47	-116.5	284.5	485.1	455.9	29.21	16.604		
9,250.0	8,944.6	9,276.6	8,955.5	19.4	19.8	-91.38	-152.1	284.2	485.0	455.7	29.30	16.552		
9,302.1	8,947.0	9,329.5	8,957.0	19.4	19.9	-91.27	-204.9	283.7	485.0	455.6	29.46	16.465		
9,310.0	8,947.0	9,337.4	8,957.0	19.4	19.9	-91.27	-212.8	283.6	485.0	455.5	29.49	16.448		
9,400.0	8,947.1	9,427.4	8,957.1	19.4	19.9	-91.26	-302.8	282.8	485.0	455.2	29.83	16.260		
9,405.0	8,947.2	9,432.4	8,957.1	19.4	19.9	-91.26	-307.8	282.8	485.0	455.2	29.85	16.247		
9,500.0	8,947.3	9,527.4	8,957.2	19.5	20.0	-91.26	-402.8	282.0	485.0	454.7	30.29	16.015		
9,595.0	8,947.4	9,622.4	8,957.3	19.5	20.1	-91.25	-497.8	281.1	485.0	454.2	30.78	15.757		
9,600.0	8,947.4	9,627.4	8,957.4	19.5	20.1	-91.25	-502.8	281.1	485.0	454.2	30.81	15.743		

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	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: Reference		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	
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	
9,690.0	8,947.6	9,717.4	8,957.5	19.6	20.2	-91.25	-592.8	280.3	485.0	453.7	31.34	15.477		
9,700.0	8,947.6	9,727.4	8,957.5	19.6	20.2	-91.25	-602.8	280.2	485.0	453.6	31.40	15.447		
9,785.0	8,947.7	9,812.4	8,957.6	19.7	20.3	-91.25	-687.8	279.4	485.0	453.1	31.95	15.181		
9,800.0	8,947.7	9,827.4	8,957.6	19.7	20.3	-91.25	-702.8	279.3	485.0	453.0	32.05	15.133		
9,880.0	8,947.9	9,907.4	8,957.7	19.8	20.4	-91.24	-782.8	278.6	485.0	452.4	32.61	14.871		
9,900.0	8,947.9	9,927.4	8,957.7	19.8	20.4	-91.24	-802.8	278.4	485.0	452.3	32.76	14.805		
9,975.0	8,948.0	10,002.4	8,957.8	19.9	20.5	-91.24	-877.8	277.7	485.0	451.7	33.33	14.552		
10,000.0	8,948.0	10,027.4	8,957.8	19.9	20.6	-91.24	-902.8	277.5	485.0	451.5	33.53	14.467		
10,070.0	8,948.1	10,097.4	8,957.9	20.0	20.7	-91.24	-972.8	276.9	485.0	450.9	34.09	14.227		
10,100.0	8,948.2	10,127.4	8,957.9	20.1	20.7	-91.23	-1,002.8	276.6	485.0	450.7	34.34	14.124		
10,165.0	8,948.3	10,192.4	8,958.0	20.2	20.8	-91.23	-1,067.8	276.1	485.0	450.1	34.90	13.898		
10,200.0	8,948.3	10,227.4	8,958.0	20.2	20.9	-91.23	-1,102.8	275.7	485.0	449.8	35.20	13.777		
10,260.0	8,948.4	10,287.4	8,958.1	20.3	21.0	-91.23	-1,162.8	275.2	485.0	449.3	35.75	13.569		
10,300.0	8,948.5	10,327.4	8,958.2	20.4	21.1	-91.23	-1,202.8	274.9	485.0	448.9	36.11	13.431		
10,355.0	8,948.6	10,382.4	8,958.2	20.5	21.3	-91.22	-1,257.8	274.4	485.0	448.4	36.63	13.241		
10,400.0	8,948.6	10,427.4	8,958.3	20.6	21.4	-91.22	-1,302.8	274.0	485.0	448.0	37.06	13.087		
10,450.0	8,948.7	10,477.4	8,958.3	20.7	21.5	-91.22	-1,352.8	273.5	485.0	447.5	37.55	12.917		
10,500.0	8,948.8	10,527.4	8,958.4	20.9	21.6	-91.22	-1,402.8	273.1	485.0	447.0	38.05	12.748		
10,545.0	8,948.8	10,572.4	8,958.4	21.0	21.8	-91.22	-1,447.8	272.7	485.0	446.5	38.50	12.597		
10,600.0	8,948.9	10,627.4	8,958.5	21.1	21.9	-91.21	-1,502.7	272.2	485.0	446.0	39.07	12.415		
10,640.0	8,949.0	10,667.4	8,958.5	21.3	22.0	-91.21	-1,542.7	271.8	485.0	445.5	39.49	12.283		
10,697.5	8,949.1	10,724.9	8,958.6	21.4	22.2	-91.21	-1,600.3	271.3	485.0	444.9	40.09	12.097		
10,700.0	8,949.1	10,727.4	8,958.6	21.4	22.2	-91.21	-1,602.7	271.3	485.0	444.9	40.12	12.089		
10,735.0	8,949.1	10,762.4	8,958.7	21.6	22.4	-91.21	-1,637.7	271.0	485.0	444.5	40.50	11.977		
10,800.0	8,949.2	10,827.4	8,958.7	21.8	22.6	-91.21	-1,702.7	270.4	485.0	443.8	41.20	11.772		
10,830.0	8,949.3	10,857.4	8,958.8	21.9	22.7	-91.20	-1,732.7	270.2	485.0	443.5	41.54	11.678		
10,900.0	8,949.4	10,927.4	8,958.8	22.2	23.0	-91.20	-1,802.7	269.5	485.0	442.7	42.31	11.463		
10,925.0	8,949.4	10,952.4	8,958.9	22.3	23.1	-91.20	-1,827.7	269.3	485.0	442.4	42.60	11.387		
11,000.0	8,949.5	11,027.4	8,959.0	22.6	23.4	-91.20	-1,902.7	268.7	485.0	441.6	43.45	11.163		
11,020.0	8,949.5	11,047.4	8,959.0	22.7	23.5	-91.20	-1,922.7	268.5	485.0	441.3	43.68	11.104		
11,100.0	8,949.7	11,127.4	8,959.1	23.0	23.8	-91.19	-2,002.7	267.8	485.0	440.4	44.61	10.873		
11,115.0	8,949.7	11,142.4	8,959.1	23.1	23.9	-91.19	-2,017.7	267.6	485.0	440.2	44.78	10.830		
11,200.0	8,949.8	11,227.4	8,959.2	23.5	24.3	-91.19	-2,102.7	266.9	485.0	439.2	45.79	10.593		
11,210.0	8,949.8	11,237.4	8,959.2	23.6	24.3	-91.19	-2,112.7	266.8	485.0	439.1	45.91	10.565		
11,300.0	8,950.0	11,327.4	8,959.3	24.0	24.8	-91.19	-2,202.7	266.0	485.0	438.0	46.99	10.322		
11,305.0	8,950.0	11,332.4	8,959.3	24.1	24.8	-91.19	-2,207.7	265.9	485.0	438.0	47.05	10.309		
11,400.0	8,950.1	11,427.4	8,959.4	24.6	25.3	-91.18	-2,302.7	265.1	485.0	436.8	48.21	10.061		
11,495.0	8,950.2	11,522.4	8,959.5	25.1	25.8	-91.18	-2,397.7	264.3	485.0	435.6	49.38	9.822		
11,500.0	8,950.3	11,527.4	8,959.5	25.1	25.8	-91.18	-2,402.7	264.2	485.0	435.6	49.45	9.809		
11,590.0	8,950.4	11,617.4	8,959.6	25.6	26.3	-91.17	-2,492.7	263.4	485.0	434.5	50.57	9.591		
11,600.0	8,950.4	11,627.4	8,959.6	25.7	26.4	-91.17	-2,502.7	263.3	485.0	434.3	50.70	9.567		
11,685.0	8,950.5	11,712.4	8,959.7	26.2	26.8	-91.17	-2,587.7	262.6	485.0	433.3	51.77	9.368		
11,700.0	8,950.5	11,727.4	8,959.8	26.3	26.9	-91.17	-2,602.7	262.4	485.0	433.1	51.97	9.334		
11,780.0	8,950.7	11,807.4	8,959.8	26.7	27.4	-91.17	-2,682.7	261.7	485.0	432.0	52.99	9.153		
11,800.0	8,950.7	11,827.4	8,959.9	26.9	27.5	-91.17	-2,702.7	261.6	485.0	431.8	53.25	9.109		
11,875.0	8,950.8	11,902.4	8,960.0	27.3	27.9	-91.16	-2,777.7	260.9	485.0	430.8	54.22	8.946		
11,900.0	8,950.8	11,927.4	8,960.0	27.5	28.1	-91.16	-2,802.7	260.7	485.0	430.5	54.54	8.893		
11,970.0	8,950.9	11,997.4	8,960.1	27.9	28.5	-91.16	-2,872.7	260.0	485.0	429.6	55.45	8.747		
12,000.0	8,951.0	12,027.4	8,960.1	28.1	28.7	-91.16	-2,902.7	259.8	485.0	429.2	55.85	8.685		
12,065.0	8,951.1	12,092.4	8,960.2	28.5	29.1	-91.16	-2,967.7	259.2	485.0	428.3	56.70	8.554		
12,100.0	8,951.1	12,127.4	8,960.2	28.7	29.3	-91.15	-3,002.7	258.9	485.0	427.9	57.16	8.485		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	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: Reference		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					
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		
12,160.0	8,951.2	12,187.4	8,960.3	29.1	29.7	-91.15	-3,062.7	258.4	485.0	427.1	57.96	8.369			
12,200.0	8,951.3	12,227.4	8,960.3	29.4	29.9	-91.15	-3,102.7	258.0	485.0	426.5	58.49	8.293			
12,255.0	8,951.4	12,282.4	8,960.4	29.7	30.3	-91.15	-3,157.7	257.5	485.0	425.8	59.22	8.190			
12,300.0	8,951.4	12,327.4	8,960.4	30.0	30.6	-91.15	-3,202.7	257.1	485.0	425.2	59.82	8.107			
12,350.0	8,951.5	12,377.4	8,960.5	30.3	30.9	-91.14	-3,252.7	256.7	485.0	424.5	60.50	8.017			
12,400.0	8,951.6	12,427.4	8,960.6	30.7	31.2	-91.14	-3,302.7	256.2	485.0	423.9	61.17	7.929			
12,445.0	8,951.7	12,472.4	8,960.6	31.0	31.5	-91.14	-3,347.7	255.8	485.0	423.2	61.78	7.851			
12,500.0	8,951.7	12,527.4	8,960.7	31.3	31.8	-91.14	-3,402.7	255.3	485.0	422.5	62.52	7.757			
12,540.0	8,951.8	12,567.4	8,960.7	31.6	32.1	-91.14	-3,442.7	255.0	485.0	422.0	63.07	7.691			
12,600.0	8,951.9	12,627.4	8,960.8	32.0	32.5	-91.13	-3,502.7	254.5	485.0	421.1	63.89	7.592			
12,635.0	8,951.9	12,662.4	8,960.8	32.2	32.7	-91.13	-3,537.7	254.2	485.0	420.7	64.36	7.536			
12,700.0	8,952.0	12,727.4	8,960.9	32.7	33.2	-91.13	-3,602.7	253.6	485.0	419.8	65.25	7.433			
12,730.0	8,952.1	12,757.4	8,960.9	32.9	33.4	-91.13	-3,632.7	253.3	485.0	419.4	65.67	7.386			
12,800.0	8,952.2	12,827.4	8,961.0	33.3	33.8	-91.13	-3,702.7	252.7	485.0	418.4	66.63	7.279			
12,825.0	8,952.2	12,852.4	8,961.0	33.5	34.0	-91.13	-3,727.7	252.5	485.0	418.1	66.98	7.242			
12,900.0	8,952.3	12,927.4	8,961.1	34.0	34.5	-91.12	-3,802.7	251.8	485.0	417.0	68.01	7.131			
12,920.0	8,952.4	12,947.4	8,961.1	34.1	34.6	-91.12	-3,822.7	251.6	485.0	416.7	68.29	7.102			
13,000.0	8,952.5	13,027.4	8,961.2	34.7	35.2	-91.12	-3,902.7	250.9	485.0	415.6	69.40	6.989			
13,015.0	8,952.5	13,042.4	8,961.3	34.8	35.3	-91.12	-3,917.7	250.8	485.0	415.4	69.61	6.968			
13,100.0	8,952.6	13,127.4	8,961.4	35.4	35.8	-91.11	-4,002.6	250.0	485.0	414.2	70.80	6.851			
13,110.0	8,952.6	13,137.4	8,961.4	35.5	35.9	-91.11	-4,012.6	249.9	485.0	414.1	70.94	6.838			
13,200.0	8,952.8	13,227.4	8,961.5	36.1	36.5	-91.11	-4,102.6	249.1	485.0	412.8	72.20	6.718			
13,205.0	8,952.8	13,232.4	8,961.5	36.1	36.6	-91.11	-4,107.6	249.1	485.0	412.8	72.27	6.712			
13,300.0	8,952.9	13,327.4	8,961.6	36.8	37.2	-91.11	-4,202.6	248.3	485.0	411.4	73.60	6.590			
13,395.0	8,953.1	13,422.4	8,961.7	37.4	37.9	-91.10	-4,297.6	247.4	485.0	410.1	74.94	6.472			
13,400.0	8,953.1	13,427.4	8,961.7	37.5	37.9	-91.10	-4,302.6	247.4	485.0	410.0	75.01	6.466			
13,490.0	8,953.2	13,517.4	8,961.8	38.1	38.5	-91.10	-4,392.6	246.6	485.0	408.7	76.28	6.358			
13,500.0	8,953.2	13,527.4	8,961.8	38.2	38.6	-91.10	-4,402.6	246.5	485.0	408.6	76.42	6.347			
13,585.0	8,953.3	13,612.4	8,961.9	38.8	39.2	-91.10	-4,487.6	245.7	485.0	407.4	77.63	6.248			
13,600.0	8,953.4	13,627.4	8,961.9	38.9	39.3	-91.09	-4,502.6	245.6	485.0	407.2	77.84	6.231			
13,680.0	8,953.5	13,707.4	8,962.0	39.4	39.8	-91.09	-4,582.6	244.9	485.0	406.0	78.98	6.141			
13,700.0	8,953.5	13,727.4	8,962.0	39.6	40.0	-91.09	-4,602.6	244.7	485.0	405.8	79.27	6.119			
13,775.0	8,953.6	13,802.4	8,962.1	40.1	40.5	-91.09	-4,677.6	244.0	485.0	404.7	80.33	6.038			
13,800.0	8,953.7	13,827.4	8,962.2	40.3	40.7	-91.09	-4,702.6	243.8	485.0	404.3	80.69	6.011			
13,870.0	8,953.8	13,897.4	8,962.2	40.8	41.2	-91.08	-4,772.6	243.2	485.0	403.3	81.69	5.937			
13,900.0	8,953.8	13,927.4	8,962.3	41.0	41.4	-91.08	-4,802.6	242.9	485.0	402.9	82.12	5.906			
13,965.0	8,953.9	13,992.4	8,962.3	41.5	41.9	-91.08	-4,867.6	242.4	485.0	402.0	83.05	5.840			
14,000.0	8,954.0	14,027.4	8,962.4	41.7	42.1	-91.08	-4,902.6	242.0	485.0	401.5	83.56	5.805			
14,060.0	8,954.0	14,087.4	8,962.5	42.1	42.5	-91.08	-4,962.6	241.5	485.0	400.6	84.42	5.746			
14,100.0	8,954.1	14,127.4	8,962.5	42.4	42.8	-91.07	-5,002.6	241.2	485.0	400.0	84.99	5.707			
14,155.0	8,954.2	14,182.4	8,962.6	42.8	43.2	-91.07	-5,057.6	240.7	485.0	399.2	85.78	5.654			
14,200.0	8,954.2	14,227.4	8,962.6	43.2	43.5	-91.07	-5,102.6	240.3	485.0	398.6	86.43	5.612			
14,250.0	8,954.3	14,277.4	8,962.7	43.5	43.9	-91.07	-5,152.6	239.8	485.0	397.9	87.15	5.565			
14,300.0	8,954.4	14,327.4	8,962.7	43.9	44.2	-91.07	-5,202.6	239.4	485.0	397.2	87.87	5.520			
14,345.0	8,954.5	14,372.4	8,962.8	44.2	44.6	-91.06	-5,247.6	239.0	485.0	396.5	88.53	5.479			
14,400.0	8,954.5	14,427.4	8,962.8	44.6	44.9	-91.06	-5,302.6	238.5	485.0	395.7	89.32	5.430			
14,440.0	8,954.6	14,467.4	8,962.9	44.9	45.2	-91.06	-5,342.6	238.1	485.0	395.1	89.90	5.395			
14,500.0	8,954.7	14,527.4	8,963.0	45.3	45.7	-91.06	-5,402.6	237.6	485.0	394.3	90.77	5.344			
14,535.0	8,954.7	14,562.4	8,963.0	45.6	45.9	-91.06	-5,437.6	237.3	485.0	393.8	91.28	5.314			
14,600.0	8,954.8	14,627.4	8,963.1	46.0	46.4	-91.05	-5,502.6	236.7	485.0	392.8	92.22	5.259			
14,630.0	8,954.9	14,657.4	8,963.1	46.3	46.6	-91.05	-5,532.6	236.5	485.0	392.4	92.66	5.235			

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	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
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Separation (usft)	Factor		
14,700.0	8,955.0	14,727.4	8,963.2	46.8	47.1	-91.05	-5,602.6	235.8	485.0	391.4	93.67	5.178		
14,725.0	8,955.0	14,752.4	8,963.2	46.9	47.3	-91.05	-5,627.6	235.6	485.0	391.0	94.04	5.158		
14,800.0	8,955.1	14,827.4	8,963.3	47.5	47.8	-91.05	-5,702.6	234.9	485.0	389.9	95.13	5.099		
14,820.0	8,955.2	14,847.4	8,963.3	47.6	48.0	-91.05	-5,722.6	234.8	485.0	389.6	95.42	5.083		
14,900.0	8,955.3	14,927.4	8,963.4	48.2	48.5	-91.04	-5,802.6	234.1	485.0	388.4	96.59	5.022		
14,915.0	8,955.3	14,942.4	8,963.4	48.3	48.7	-91.04	-5,817.6	233.9	485.0	388.2	96.81	5.010		
15,000.0	8,955.4	15,027.4	8,963.5	48.9	49.3	-91.04	-5,902.6	233.2	485.0	387.0	98.05	4.947		
15,010.0	8,955.4	15,037.4	8,963.5	49.0	49.3	-91.04	-5,912.6	233.1	485.0	386.8	98.19	4.939		
15,100.0	8,955.6	15,127.4	8,963.6	49.7	50.0	-91.03	-6,002.6	232.3	485.0	385.5	99.51	4.874		
15,105.0	8,955.6	15,132.4	8,963.6	49.7	50.0	-91.03	-6,007.6	232.2	485.0	385.4	99.58	4.871		
15,200.0	8,955.7	15,227.4	8,963.8	50.4	50.7	-91.03	-6,102.6	231.4	485.0	384.1	100.97	4.803		
15,295.0	8,955.9	15,322.4	8,963.9	51.1	51.4	-91.03	-6,197.6	230.6	485.0	382.7	102.37	4.738		
15,300.0	8,955.9	15,327.4	8,963.9	51.1	51.5	-91.03	-6,202.6	230.5	485.0	382.6	102.44	4.735		
15,390.0	8,956.0	15,417.4	8,964.0	51.8	52.1	-91.02	-6,292.6	229.7	485.0	381.3	103.76	4.674		
15,400.0	8,956.0	15,427.4	8,964.0	51.9	52.2	-91.02	-6,302.6	229.6	485.0	381.1	103.91	4.668		
15,485.0	8,956.1	15,512.4	8,964.1	52.5	52.8	-91.02	-6,387.6	228.9	485.0	379.9	105.16	4.612		
15,500.0	8,956.2	15,527.4	8,964.1	52.6	52.9	-91.02	-6,402.6	228.7	485.0	379.7	105.38	4.603		
15,580.0	8,956.3	15,607.4	8,964.2	53.2	53.5	-91.02	-6,482.6	228.0	485.0	378.5	106.55	4.552		
15,600.0	8,956.3	15,627.4	8,964.2	53.3	53.6	-91.01	-6,502.5	227.9	485.0	378.2	106.85	4.539		
15,675.0	8,956.4	15,702.4	8,964.3	53.9	54.2	-91.01	-6,577.5	227.2	485.0	377.1	107.95	4.493		
15,700.0	8,956.5	15,727.4	8,964.3	54.1	54.4	-91.01	-6,602.5	227.0	485.0	376.7	108.32	4.478		
15,770.0	8,956.6	15,797.4	8,964.4	54.6	54.9	-91.01	-6,672.5	226.3	485.0	375.7	109.35	4.435		
15,800.0	8,956.6	15,827.4	8,964.4	54.8	55.1	-91.01	-6,702.5	226.1	485.0	375.2	109.80	4.418		
15,865.0	8,956.7	15,892.4	8,964.5	55.3	55.6	-91.00	-6,767.5	225.5	485.0	374.3	110.76	4.379		
15,900.0	8,956.8	15,927.4	8,964.6	55.6	55.8	-91.00	-6,802.5	225.2	485.0	373.8	111.27	4.359		
15,960.0	8,956.9	15,987.4	8,964.6	56.0	56.3	-91.00	-6,862.5	224.7	485.0	372.9	112.16	4.325		
16,000.0	8,956.9	16,027.4	8,964.7	56.3	56.6	-91.00	-6,902.5	224.3	485.0	372.3	112.75	4.302		
16,055.0	8,957.0	16,082.4	8,964.7	56.7	57.0	-91.00	-6,957.5	223.8	485.0	371.5	113.56	4.271		
16,100.0	8,957.1	16,127.4	8,964.8	57.0	57.3	-90.99	-7,002.5	223.4	485.0	370.8	114.23	4.246		
16,150.0	8,957.1	16,177.4	8,964.8	57.4	57.7	-90.99	-7,052.5	223.0	485.0	370.1	114.97	4.219		
16,200.0	8,957.2	16,227.4	8,964.9	57.8	58.1	-90.99	-7,102.5	222.5	485.0	369.3	115.71	4.192		
16,245.0	8,957.3	16,272.4	8,964.9	58.1	58.4	-90.99	-7,147.5	222.1	485.0	368.7	116.37	4.168		
16,300.0	8,957.4	16,327.4	8,965.0	58.5	58.8	-90.99	-7,202.5	221.6	485.0	367.8	117.19	4.139		
16,340.0	8,957.4	16,367.4	8,965.1	58.8	59.1	-90.99	-7,242.5	221.3	485.0	367.2	117.78	4.118		
16,400.0	8,957.5	16,427.4	8,965.1	59.3	59.5	-90.98	-7,302.5	220.8	485.0	366.4	118.67	4.087		
16,435.0	8,957.6	16,462.4	8,965.2	59.5	59.8	-90.98	-7,337.5	220.4	485.0	365.8	119.19	4.069		
16,500.0	8,957.7	16,527.4	8,965.2	60.0	60.3	-90.98	-7,402.5	219.9	485.0	364.9	120.15	4.037		
16,530.0	8,957.7	16,557.4	8,965.3	60.2	60.5	-90.98	-7,432.5	219.6	485.0	364.4	120.60	4.022		
16,600.0	8,957.8	16,627.4	8,965.4	60.7	61.0	-90.97	-7,502.5	219.0	485.0	363.4	121.64	3.987		
16,625.0	8,957.8	16,652.4	8,965.4	60.9	61.2	-90.97	-7,527.5	218.8	485.0	363.0	122.01	3.975		
16,700.0	8,957.9	16,727.4	8,965.5	61.5	61.7	-90.97	-7,602.5	218.1	485.0	361.9	123.12	3.939		
16,720.0	8,958.0	16,747.4	8,965.5	61.6	61.9	-90.97	-7,622.5	217.9	485.0	361.6	123.42	3.930		
16,800.0	8,958.1	16,827.4	8,965.6	62.2	62.5	-90.97	-7,702.5	217.2	485.0	360.4	124.61	3.892		
16,815.0	8,958.1	16,842.4	8,965.6	62.3	62.6	-90.97	-7,717.5	217.1	485.0	360.2	124.83	3.885		
16,900.0	8,958.2	16,927.4	8,965.7	63.0	63.2	-90.96	-7,802.5	216.3	485.0	358.9	126.10	3.846		
16,910.0	8,958.3	16,937.4	8,965.7	63.0	63.3	-90.96	-7,812.5	216.2	485.0	358.8	126.25	3.842		
17,000.0	8,958.4	17,027.4	8,965.8	63.7	64.0	-90.96	-7,902.5	215.4	485.0	357.4	127.59	3.802		
17,005.0	8,958.4	17,032.4	8,965.8	63.7	64.0	-90.96	-7,907.5	215.4	485.0	357.4	127.66	3.799		
17,100.0	8,958.5	17,127.4	8,965.9	64.5	64.7	-90.96	-8,002.5	214.5	485.0	356.0	129.08	3.758		
17,195.0	8,958.7	17,222.4	8,966.0	65.2	65.4	-90.95	-8,097.5	213.7	485.0	354.5	130.49	3.717		
17,200.0	8,958.7	17,227.4	8,966.0	65.2	65.5	-90.95	-8,102.5	213.7	485.0	354.5	130.57	3.715		

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	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: Reference		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	
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	
17,290.0	8,958.8	17,317.4	8,966.1	65.9	66.1	-90.95	-8,192.5	212.9	485.0	353.1	131.91	3.677		
17,300.0	8,958.8	17,327.4	8,966.2	65.9	66.2	-90.95	-8,202.5	212.8	485.0	353.0	132.06	3.673		
17,385.0	8,959.0	17,412.4	8,966.2	66.6	66.8	-90.94	-8,287.5	212.0	485.0	351.7	133.33	3.638		
17,400.0	8,959.0	17,427.4	8,966.3	66.7	66.9	-90.94	-8,302.5	211.9	485.0	351.5	133.55	3.632		
17,480.0	8,959.1	17,507.4	8,966.4	67.3	67.5	-90.94	-8,382.5	211.2	485.0	350.3	134.74	3.600		
17,500.0	8,959.1	17,527.4	8,966.4	67.4	67.7	-90.94	-8,402.5	211.0	485.0	350.0	135.04	3.592		
17,575.0	8,959.2	17,602.4	8,966.5	68.0	68.2	-90.94	-8,477.5	210.3	485.0	348.9	136.16	3.562		
17,600.0	8,959.3	17,627.4	8,966.5	68.2	68.4	-90.94	-8,502.5	210.1	485.0	348.5	136.54	3.552		
17,670.0	8,959.4	17,697.4	8,966.6	68.7	69.0	-90.93	-8,572.5	209.5	485.0	347.4	137.58	3.525		
17,700.0	8,959.4	17,727.4	8,966.6	68.9	69.2	-90.93	-8,602.5	209.2	485.0	347.0	138.03	3.514		
17,765.0	8,959.5	17,792.4	8,966.7	69.4	69.7	-90.93	-8,667.5	208.7	485.0	346.0	139.00	3.489		
17,800.0	8,959.6	17,827.4	8,966.7	69.7	69.9	-90.93	-8,702.5	208.3	485.0	345.5	139.53	3.476		
17,860.0	8,959.7	17,887.4	8,966.8	70.1	70.4	-90.92	-8,762.5	207.8	485.0	344.6	140.42	3.454		
17,900.0	8,959.7	17,927.4	8,966.8	70.4	70.7	-90.92	-8,802.5	207.5	485.0	344.0	141.02	3.439		
17,955.0	8,959.8	17,982.4	8,966.9	70.8	71.1	-90.92	-8,857.5	207.0	485.0	343.2	141.84	3.419		
18,000.0	8,959.9	18,027.4	8,967.0	71.2	71.4	-90.92	-8,902.5	206.6	485.0	342.5	142.52	3.403		
18,050.0	8,959.9	18,077.4	8,967.0	71.6	71.8	-90.92	-8,952.5	206.1	485.0	341.8	143.27	3.386		
18,100.0	8,960.0	18,127.4	8,967.1	71.9	72.2	-90.92	-9,002.4	205.7	485.0	341.0	144.02	3.368		
18,145.0	8,960.1	18,172.4	8,967.1	72.3	72.5	-90.91	-9,047.4	205.3	485.0	340.3	144.69	3.352		
18,200.0	8,960.2	18,227.4	8,967.2	72.7	72.9	-90.91	-9,102.4	204.8	485.0	339.5	145.51	3.333		
18,240.0	8,960.2	18,267.4	8,967.2	73.0	73.2	-90.91	-9,142.4	204.4	485.0	338.9	146.11	3.320		
18,300.0	8,960.3	18,327.4	8,967.3	73.4	73.7	-90.91	-9,202.4	203.9	485.0	338.0	147.01	3.299		
18,335.0	8,960.4	18,362.4	8,967.3	73.7	73.9	-90.91	-9,237.4	203.6	485.0	337.5	147.54	3.288		
18,400.0	8,960.5	18,427.4	8,967.4	74.2	74.4	-90.90	-9,302.4	203.0	485.0	336.5	148.51	3.266		
18,430.0	8,960.5	18,457.4	8,967.4	74.4	74.6	-90.90	-9,332.4	202.8	485.0	336.1	148.96	3.256		
18,500.0	8,960.6	18,527.4	8,967.5	74.9	75.2	-90.90	-9,402.4	202.1	485.0	335.0	150.01	3.233		
18,525.0	8,960.6	18,552.4	8,967.6	75.1	75.3	-90.90	-9,427.4	201.9	485.0	334.6	150.39	3.225		
18,600.0	8,960.8	18,627.4	8,967.6	75.7	75.9	-90.90	-9,502.4	201.2	485.0	333.5	151.51	3.201		
18,620.0	8,960.8	18,647.4	8,967.7	75.8	76.0	-90.89	-9,522.4	201.1	485.0	333.2	151.81	3.195		
18,700.0	8,960.9	18,727.4	8,967.8	76.4	76.6	-90.89	-9,602.4	200.4	485.0	332.0	153.01	3.170		
18,715.0	8,960.9	18,742.4	8,967.8	76.5	76.8	-90.89	-9,617.4	200.2	485.0	331.8	153.24	3.165		
18,800.0	8,961.1	18,827.4	8,967.9	77.2	77.4	-90.89	-9,702.4	199.5	485.0	330.5	154.51	3.139		
18,810.0	8,961.1	18,837.4	8,967.9	77.3	77.5	-90.89	-9,712.4	199.4	485.0	330.4	154.66	3.136		
18,900.0	8,961.2	18,927.4	8,968.0	77.9	78.1	-90.88	-9,802.4	198.6	485.0	329.0	156.01	3.109		
18,905.0	8,961.2	18,932.4	8,968.0	78.0	78.2	-90.88	-9,807.4	198.5	485.0	328.9	156.09	3.107		
19,000.0	8,961.3	19,027.4	8,968.1	78.7	78.9	-90.88	-9,902.4	197.7	485.0	327.5	157.52	3.079		
19,095.0	8,961.5	19,122.4	8,968.2	79.4	79.6	-90.88	-9,997.4	196.9	485.0	326.1	158.94	3.052		
19,100.0	8,961.5	19,127.4	8,968.2	79.4	79.6	-90.88	-10,002.4	196.8	485.0	326.0	159.02	3.050		
19,190.0	8,961.6	19,217.4	8,968.3	80.1	80.3	-90.87	-10,092.4	196.0	485.0	324.7	160.37	3.024		
19,200.0	8,961.6	19,227.4	8,968.3	80.2	80.4	-90.87	-10,102.4	195.9	485.0	324.5	160.52	3.022		
19,285.0	8,961.8	19,312.4	8,968.4	80.8	81.0	-90.87	-10,187.4	195.2	485.0	323.2	161.80	2.998		
19,300.0	8,961.8	19,327.4	8,968.4	80.9	81.1	-90.87	-10,202.4	195.0	485.0	323.0	162.03	2.994		
19,380.0	8,961.9	19,407.4	8,968.5	81.5	81.7	-90.86	-10,282.4	194.3	485.0	321.8	163.23	2.971		
19,400.0	8,961.9	19,427.4	8,968.6	81.7	81.9	-90.86	-10,302.4	194.1	485.0	321.5	163.53	2.966		
19,475.0	8,962.1	19,502.4	8,968.6	82.3	82.5	-90.86	-10,377.4	193.5	485.0	320.4	164.66	2.946		
19,500.0	8,962.1	19,527.4	8,968.7	82.4	82.6	-90.86	-10,402.4	193.3	485.0	320.0	165.04	2.939		
19,570.0	8,962.2	19,597.4	8,968.7	83.0	83.2	-90.86	-10,472.4	192.6	485.0	318.9	166.09	2.920		
19,600.0	8,962.2	19,627.4	8,968.8	83.2	83.4	-90.86	-10,502.4	192.4	485.0	318.5	166.54	2.912		
19,665.0	8,962.3	19,692.4	8,968.9	83.7	83.9	-90.85	-10,567.4	191.8	485.0	317.5	167.52	2.895		
19,700.0	8,962.4	19,727.4	8,968.9	83.9	84.2	-90.85	-10,602.4	191.5	485.0	317.0	168.05	2.886		
19,760.0	8,962.5	19,787.4	8,969.0	84.4	84.6	-90.85	-10,662.4	191.0	485.0	316.1	168.95	2.871		

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #707H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8417-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Offset Wellbore Centre	Distance	Rule Assigned:								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,800.0	8,962.5	19,827.4	8,969.0	84.7	84.9	-90.85	-10,702.4	190.6	485.0	315.5	169.55	2.861	
19,855.0	8,962.6	19,882.4	8,969.1	85.1	85.3	-90.85	-10,757.4	190.1	485.0	314.7	170.38	2.847	
19,900.0	8,962.7	19,927.4	8,969.1	85.5	85.7	-90.84	-10,802.4	189.7	485.0	314.0	171.06	2.835	
19,950.0	8,962.8	19,977.4	8,969.2	85.8	86.0	-90.84	-10,852.4	189.3	485.0	313.2	171.81	2.823	
20,000.0	8,962.8	20,027.4	8,969.2	86.2	86.4	-90.84	-10,902.4	188.8	485.0	312.5	172.57	2.811	
20,045.0	8,962.9	20,072.4	8,969.3	86.5	86.7	-90.84	-10,947.4	188.4	485.0	311.8	173.24	2.800	
20,100.0	8,963.0	20,127.4	8,969.4	87.0	87.2	-90.84	-11,002.4	187.9	485.0	311.0	174.07	2.786	
20,140.0	8,963.0	20,167.4	8,969.4	87.3	87.5	-90.83	-11,042.4	187.6	485.0	310.4	174.68	2.777	
20,200.0	8,963.1	20,227.4	8,969.5	87.7	87.9	-90.83	-11,102.4	187.1	485.0	309.5	175.58	2.762	
20,235.0	8,963.2	20,262.4	8,969.5	88.0	88.2	-90.83	-11,137.4	186.7	485.0	308.9	176.11	2.754	
20,300.0	8,963.3	20,327.4	8,969.6	88.5	88.7	-90.83	-11,202.4	186.2	485.0	307.9	177.09	2.739	
20,330.0	8,963.3	20,357.4	8,969.6	88.7	88.9	-90.83	-11,232.4	185.9	485.0	307.5	177.54	2.732	
20,400.0	8,963.4	20,427.4	8,969.7	89.2	89.4	-90.82	-11,302.4	185.3	485.0	306.4	178.60	2.716	
20,425.0	8,963.5	20,452.4	8,969.7	89.4	89.6	-90.82	-11,327.4	185.1	485.0	306.1	178.97	2.710	
20,500.0	8,963.6	20,527.4	8,969.8	90.0	90.2	-90.82	-11,402.4	184.4	485.0	304.9	180.10	2.693	
20,520.0	8,963.6	20,547.4	8,969.8	90.1	90.3	-90.82	-11,422.4	184.2	485.0	304.6	180.41	2.689	
20,600.0	8,963.7	20,627.4	8,969.9	90.7	90.9	-90.82	-11,502.3	183.5	485.0	303.4	181.61	2.671	
20,615.0	8,963.7	20,642.4	8,969.9	90.8	91.0	-90.81	-11,517.3	183.4	485.0	303.2	181.84	2.667	
20,700.0	8,963.9	20,727.4	8,970.0	91.5	91.7	-90.81	-11,602.3	182.6	485.0	301.9	183.12	2.649	
20,710.0	8,963.9	20,737.4	8,970.0	91.6	91.8	-90.81	-11,612.3	182.5	485.0	301.8	183.27	2.647	
20,800.0	8,964.0	20,827.4	8,970.1	92.2	92.4	-90.81	-11,702.3	181.7	485.0	300.4	184.63	2.627	
20,805.0	8,964.0	20,832.4	8,970.2	92.3	92.5	-90.81	-11,707.3	181.7	485.0	300.3	184.71	2.626	
20,900.0	8,964.2	20,927.4	8,970.3	93.0	93.2	-90.80	-11,802.3	180.8	485.0	298.9	186.14	2.606	
20,995.0	8,964.3	21,022.4	8,970.4	93.7	93.9	-90.80	-11,897.3	180.0	485.0	297.5	187.58	2.586	
21,000.0	8,964.3	21,027.4	8,970.4	93.8	93.9	-90.80	-11,902.3	180.0	485.0	297.4	187.65	2.585	
21,090.0	8,964.4	21,117.4	8,970.5	94.4	94.6	-90.80	-11,992.3	179.2	485.0	296.0	189.01	2.566	
21,100.0	8,964.5	21,127.4	8,970.5	94.5	94.7	-90.80	-12,002.3	179.1	485.0	295.9	189.16	2.564	
21,185.0	8,964.6	21,212.4	8,970.6	95.2	95.3	-90.79	-12,087.3	178.3	485.0	294.6	190.45	2.547	
21,200.0	8,964.6	21,227.4	8,970.6	95.3	95.5	-90.79	-12,102.3	178.2	485.0	294.4	190.67	2.544	
21,280.0	8,964.7	21,307.4	8,970.7	95.9	96.1	-90.79	-12,182.3	177.5	485.0	293.2	191.88	2.528	
21,300.0	8,964.8	21,327.4	8,970.7	96.0	96.2	-90.79	-12,202.3	177.3	485.0	292.9	192.18	2.524	
21,375.0	8,964.9	21,402.4	8,970.8	96.6	96.8	-90.78	-12,277.3	176.6	485.0	291.7	193.32	2.509	
21,400.0	8,964.9	21,427.4	8,970.8	96.8	97.0	-90.78	-12,302.3	176.4	485.0	291.3	193.69	2.504	
21,470.0	8,965.0	21,497.4	8,970.9	97.3	97.5	-90.78	-12,372.3	175.8	485.0	290.3	194.75	2.491	
21,500.0	8,965.0	21,527.4	8,970.9	97.5	97.7	-90.78	-12,402.3	175.5	485.0	289.8	195.21	2.485	
21,565.0	8,965.1	21,592.4	8,971.0	98.0	98.2	-90.78	-12,467.3	174.9	485.0	288.9	196.19	2.472	
21,600.0	8,965.2	21,627.4	8,971.1	98.3	98.5	-90.78	-12,502.3	174.6	485.0	288.3	196.72	2.466	
21,660.0	8,965.3	21,687.4	8,971.1	98.7	98.9	-90.77	-12,562.3	174.1	485.0	287.4	197.62	2.454	
21,700.0	8,965.3	21,727.4	8,971.2	99.0	99.2	-90.77	-12,602.3	173.8	485.0	286.8	198.23	2.447	
21,755.0	8,965.4	21,782.4	8,971.2	99.5	99.6	-90.77	-12,657.3	173.3	485.0	286.0	199.06	2.437	
21,800.0	8,965.5	21,827.4	8,971.3	99.8	100.0	-90.77	-12,702.3	172.9	485.0	285.3	199.74	2.428	
21,850.0	8,965.6	21,877.4	8,971.3	100.2	100.4	-90.77	-12,752.3	172.4	485.0	284.5	200.50	2.419	
21,900.0	8,965.6	21,927.4	8,971.4	100.6	100.7	-90.76	-12,802.3	172.0	485.0	283.8	201.25	2.410	
21,945.0	8,965.7	21,972.4	8,971.5	100.9	101.1	-90.76	-12,847.3	171.6	485.0	283.1	201.93	2.402	
22,000.0	8,965.8	22,027.4	8,971.5	101.3	101.5	-90.76	-12,902.3	171.1	485.0	282.3	202.77	2.392	
22,040.0	8,965.8	22,067.4	8,971.6	101.6	101.8	-90.76	-12,942.3	170.7	485.0	281.7	203.37	2.385	
22,100.0	8,965.9	22,127.4	8,971.6	102.1	102.2	-90.76	-13,002.3	170.2	485.0	280.8	204.28	2.374	
22,135.0	8,966.0	22,162.4	8,971.7	102.3	102.5	-90.75	-13,037.3	169.9	485.0	280.2	204.81	2.368	
22,200.0	8,966.1	22,227.4	8,971.7	102.8	103.0	-90.75	-13,102.3	169.3	485.0	279.2	205.79	2.357	
22,230.0	8,966.1	22,257.4	8,971.8	103.1	103.2	-90.75	-13,132.3	169.0	485.0	278.8	206.25	2.352	
22,300.0	8,966.2	22,327.4	8,971.9	103.6	103.8	-90.75	-13,202.3	168.4	485.0	277.7	207.31	2.340	

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	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		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	
22,325.0	8,966.3	22,352.4	8,971.9	103.8	103.9	-90.75	-13,227.3	168.2	485.0	277.4	207.68	2.335		
22,400.0	8,966.4	22,427.4	8,972.0	104.3	104.5	-90.74	-13,302.3	167.5	485.0	276.2	208.82	2.323		
22,420.0	8,966.4	22,447.4	8,972.0	104.5	104.7	-90.74	-13,322.3	167.4	485.0	275.9	209.12	2.319		
22,500.0	8,966.5	22,527.4	8,972.1	105.1	105.3	-90.74	-13,402.3	166.7	485.0	274.7	210.33	2.306		
22,515.0	8,966.6	22,542.4	8,972.1	105.2	105.4	-90.74	-13,417.3	166.5	485.0	274.5	210.56	2.304		
22,600.0	8,966.7	22,627.4	8,972.2	105.9	106.0	-90.74	-13,502.3	165.8	485.0	273.2	211.85	2.290		
22,610.0	8,966.7	22,637.4	8,972.2	105.9	106.1	-90.74	-13,512.3	165.7	485.0	273.0	212.00	2.288		
22,700.0	8,966.8	22,727.4	8,972.3	106.6	106.8	-90.73	-13,602.3	164.9	485.0	271.7	213.36	2.273		
22,705.0	8,966.8	22,732.4	8,972.3	106.6	106.8	-90.73	-13,607.3	164.8	485.0	271.6	213.44	2.273		
22,800.0	8,967.0	22,827.4	8,972.4	107.4	107.5	-90.73	-13,702.3	164.0	485.0	270.2	214.88	2.257		
22,895.0	8,967.1	22,922.4	8,972.5	108.1	108.3	-90.72	-13,797.3	163.2	485.0	268.7	216.32	2.242		
22,900.0	8,967.1	22,927.4	8,972.5	108.1	108.3	-90.72	-13,802.3	163.1	485.0	268.7	216.39	2.242		
22,990.0	8,967.3	23,017.4	8,972.7	108.8	109.0	-90.72	-13,892.3	162.3	485.0	267.3	217.75	2.227		
23,000.0	8,967.3	23,027.4	8,972.7	108.9	109.1	-90.72	-13,902.3	162.2	485.0	267.1	217.91	2.226		
23,085.0	8,967.4	23,112.4	8,972.8	109.5	109.7	-90.72	-13,987.2	161.5	485.0	265.9	219.19	2.213		
23,100.0	8,967.4	23,127.4	8,972.8	109.6	109.8	-90.72	-14,002.2	161.3	485.0	265.6	219.42	2.211		
23,180.0	8,967.5	23,207.4	8,972.9	110.2	110.4	-90.71	-14,082.2	160.6	485.0	264.4	220.63	2.198		
23,200.0	8,967.6	23,227.4	8,972.9	110.4	110.6	-90.71	-14,102.2	160.4	485.0	264.1	220.94	2.195		
23,275.0	8,967.7	23,302.4	8,973.0	111.0	111.1	-90.71	-14,177.2	159.8	485.0	263.0	222.07	2.184		
23,300.0	8,967.7	23,327.4	8,973.0	111.2	111.3	-90.71	-14,202.2	159.6	485.0	262.6	222.45	2.180		
23,370.0	8,967.8	23,397.4	8,973.1	111.7	111.9	-90.71	-14,272.2	158.9	485.0	261.5	223.51	2.170		
23,400.0	8,967.9	23,427.4	8,973.1	111.9	112.1	-90.70	-14,302.2	158.7	485.0	261.1	223.97	2.166		
23,465.0	8,968.0	23,492.4	8,973.2	112.4	112.6	-90.70	-14,367.2	158.1	485.0	260.1	224.95	2.156		
23,500.0	8,968.0	23,527.4	8,973.2	112.7	112.8	-90.70	-14,402.2	157.8	485.0	259.6	225.48	2.151		
23,560.0	8,968.1	23,587.4	8,973.3	113.1	113.3	-90.70	-14,462.2	157.3	485.0	258.7	226.39	2.143		
23,600.0	8,968.2	23,627.4	8,973.3	113.4	113.6	-90.70	-14,502.2	156.9	485.0	258.0	227.00	2.137		
23,655.0	8,968.2	23,682.4	8,973.4	113.8	114.0	-90.69	-14,557.2	156.4	485.0	257.2	227.83	2.129		
23,700.0	8,968.3	23,727.4	8,973.5	114.2	114.4	-90.69	-14,602.2	156.0	485.0	256.5	228.51	2.123		
23,750.0	8,968.4	23,777.4	8,973.5	114.6	114.7	-90.69	-14,652.2	155.6	485.0	255.8	229.27	2.116		
23,800.0	8,968.5	23,827.4	8,973.6	114.9	115.1	-90.69	-14,702.2	155.1	485.0	255.0	230.03	2.109		
23,845.0	8,968.5	23,872.4	8,973.6	115.3	115.5	-90.69	-14,747.2	154.7	485.0	254.3	230.71	2.102		
23,900.0	8,968.6	23,927.4	8,973.7	115.7	115.9	-90.68	-14,802.2	154.2	485.0	253.5	231.55	2.095		
23,940.0	8,968.7	23,967.4	8,973.7	116.0	116.2	-90.68	-14,842.2	153.9	485.0	252.9	232.15	2.089		
24,000.0	8,968.7	24,027.4	8,973.8	116.5	116.6	-90.68	-14,902.2	153.4	485.0	252.0	233.06	2.081		
24,035.0	8,968.8	24,062.4	8,973.8	116.7	116.9	-90.68	-14,937.2	153.0	485.0	251.5	233.59	2.076		
24,040.2	8,968.8	24,067.6	8,973.9	116.8	116.9	-90.68	-14,942.4	153.0	485.0	251.4	233.67	2.076		
24,100.0	8,968.9	24,127.4	8,973.9	117.2	117.4	-90.68	-15,002.2	152.5	485.0	250.5	234.58	2.068		
24,130.0	8,968.9	24,157.4	8,974.0	117.4	117.6	-90.67	-15,032.2	152.2	485.0	250.0	235.03	2.064		
24,170.2	8,969.0	24,197.6	8,974.0	117.8	117.9	-90.67	-15,072.4	151.8	485.0	249.4	235.64	2.058		
24,170.2	8,969.0	24,197.6	8,974.0	117.8	117.9	-90.67	-15,072.4	151.8	485.0	249.4	235.64	2.058		
24,170.7	8,969.0	24,197.9	8,974.0	117.8	117.9	-90.67	-15,072.8	151.8	485.0	249.4	235.65	2.058 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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	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
0.0	0.0	0.7	0.7	3.0	3.0	-91.15	-0.6	-30.0	30.0				
95.0	95.0	95.7	95.7	3.0	3.0	-91.15	-0.6	-30.0	30.0	24.0	6.04	4.971	
100.0	100.0	100.7	100.7	3.0	3.0	-91.15	-0.6	-30.0	30.0	24.0	6.04	4.967	
190.0	190.0	190.7	190.7	3.1	3.1	-91.15	-0.6	-30.0	30.0	23.8	6.25	4.798	
200.0	200.0	200.7	200.7	3.1	3.1	-91.15	-0.6	-30.0	30.0	23.7	6.29	4.773	
285.0	285.0	285.7	285.7	3.3	3.3	-91.15	-0.6	-30.0	30.0	23.5	6.48	4.628	
300.0	300.0	300.7	300.7	3.3	3.3	-91.15	-0.6	-30.0	30.0	23.5	6.52	4.600	
380.0	380.0	380.7	380.7	3.4	3.4	-91.15	-0.6	-30.0	30.0	23.3	6.70	4.477	
400.0	400.0	400.7	400.7	3.4	3.4	-91.15	-0.6	-30.0	30.0	23.3	6.75	4.445	
475.0	475.0	475.7	475.7	3.5	3.5	-91.15	-0.6	-30.0	30.0	23.1	6.91	4.340	
500.0	500.0	500.7	500.7	3.5	3.5	-91.15	-0.6	-30.0	30.0	23.0	6.97	4.304	
570.0	570.0	570.7	570.7	3.6	3.6	-91.15	-0.6	-30.0	30.0	22.9	7.12	4.215	
600.0	600.0	600.7	600.7	3.6	3.6	-91.15	-0.6	-30.0	30.0	22.8	7.19	4.176	
665.0	665.0	665.7	665.7	3.7	3.7	-91.15	-0.6	-30.0	30.0	22.7	7.32	4.100	
700.0	700.0	700.7	700.7	3.8	3.8	-91.15	-0.6	-30.0	30.0	22.6	7.39	4.059	
760.0	760.0	760.7	760.7	3.8	3.8	-91.15	-0.6	-30.0	30.0	22.5	7.51	3.994	
800.0	800.0	800.7	800.7	3.9	3.9	-91.15	-0.6	-30.0	30.0	22.4	7.59	3.951	
855.0	855.0	855.7	855.7	4.0	4.0	-91.15	-0.6	-30.0	30.0	22.3	7.70	3.896	
900.0	900.0	900.7	900.7	4.0	4.0	-91.15	-0.6	-30.0	30.0	22.2	7.79	3.851	
950.0	950.0	950.7	950.7	4.1	4.1	-91.15	-0.6	-30.0	30.0	22.1	7.89	3.805	
1,000.0	1,000.0	1,000.7	1,000.7	4.1	4.1	-91.15	-0.6	-30.0	30.0	22.0	7.98	3.759	
1,045.0	1,045.0	1,045.7	1,045.7	4.2	4.2	-91.15	-0.6	-30.0	30.0	21.9	8.07	3.720	
1,100.0	1,100.0	1,100.7	1,100.7	4.2	4.2	-91.15	-0.6	-30.0	30.0	21.8	8.17	3.673	
1,140.0	1,140.0	1,140.7	1,140.7	4.3	4.3	-91.15	-0.6	-30.0	30.0	21.8	8.24	3.640	
1,200.0	1,200.0	1,200.7	1,200.7	4.4	4.4	-91.15	-0.6	-30.0	30.0	21.7	8.35	3.592	
1,235.0	1,235.0	1,235.7	1,235.7	4.4	4.4	-91.15	-0.6	-30.0	30.0	21.6	8.42	3.566	
1,300.0	1,300.0	1,300.7	1,300.7	4.5	4.5	-91.15	-0.6	-30.0	30.0	21.5	8.53	3.517	
1,330.0	1,330.0	1,330.7	1,330.7	4.5	4.5	-91.15	-0.6	-30.0	30.0	21.4	8.58	3.495	
1,400.0	1,400.0	1,400.7	1,400.7	4.6	4.6	-91.15	-0.6	-30.0	30.0	21.3	8.71	3.446	
1,425.0	1,425.0	1,425.7	1,425.7	4.6	4.6	-91.15	-0.6	-30.0	30.0	21.3	8.75	3.429	
1,437.3	1,437.3	1,438.0	1,438.0	4.6	4.6	-91.15	-0.6	-30.0	30.0	21.2	8.77	3.421 CC	
1,500.0	1,500.0	1,500.7	1,500.7	4.7	4.7	-91.15	-0.6	-30.0	30.0	21.1	8.88	3.379	
1,520.0	1,520.0	1,520.5	1,520.5	4.8	4.7	-63.36	-0.6	-30.1	30.0	21.1	8.93	3.362 ES	
1,600.0	1,600.0	1,600.0	1,600.0	4.9	4.9	-64.55	0.3	-31.5	30.7	21.6	9.14	3.362	
1,615.0	1,615.0	1,614.6	1,614.6	4.9	4.9	-64.94	0.5	-32.0	31.0	21.8	9.20	3.366	
1,700.0	1,699.8	1,698.8	1,698.7	5.2	5.1	-67.95	2.8	-36.0	33.0	23.4	9.55	3.457	
1,710.0	1,709.8	1,708.7	1,708.5	5.2	5.1	-68.38	3.1	-36.6	33.3	23.7	9.58	3.475	
1,800.0	1,799.5	1,797.7	1,797.2	5.4	5.3	-72.67	6.9	-43.5	36.9	27.0	9.92	3.723	
1,805.0	1,804.4	1,802.7	1,802.1	5.4	5.3	-72.92	7.2	-43.9	37.2	27.3	9.94	3.741	
1,900.0	1,898.7	1,896.5	1,895.2	5.7	5.6	-77.74	12.8	-53.9	42.8	32.5	10.28	4.164	
1,925.1	1,923.5	1,921.2	1,919.7	5.8	5.7	-78.98	14.5	-57.0	44.6	34.3	10.34	4.313	
1,995.0	1,992.7	1,990.1	1,987.7	5.9	5.9	-81.41	19.8	-66.5	50.4	39.8	10.55	4.773	
2,000.0	1,997.6	1,995.0	1,992.6	5.9	5.9	-81.50	20.2	-67.3	50.8	40.3	10.57	4.809	
2,090.0	2,086.6	2,083.5	2,079.4	6.1	6.2	-81.94	28.3	-81.7	60.0	49.1	10.91	5.504	
2,100.0	2,096.5	2,093.3	2,089.0	6.2	6.2	-81.86	29.2	-83.4	61.2	50.2	10.95	5.588	
2,185.0	2,180.6	2,176.3	2,170.0	6.4	6.5	-80.48	38.1	-99.4	71.7	60.4	11.30	6.348	
2,200.0	2,195.4	2,190.9	2,184.2	6.4	6.6	-80.13	39.8	-102.4	73.7	62.4	11.36	6.491	
2,280.0	2,274.5	2,269.9	2,260.9	6.7	6.8	-78.31	49.1	-119.1	85.0	73.2	11.72	7.250	
2,300.0	2,294.3	2,289.7	2,280.1	6.7	6.9	-77.93	51.5	-123.3	87.8	76.0	11.81	7.433	
2,375.0	2,368.5	2,363.9	2,352.1	7.0	7.2	-76.69	60.2	-138.9	98.4	86.2	12.16	8.091	
2,400.0	2,393.2	2,388.7	2,376.1	7.0	7.2	-76.33	63.1	-144.2	101.9	89.6	12.28	8.301	

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	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	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation Factor		
2,470.0	2,462.5	2,458.0	2,443.3	7.3	7.5	-75.46	71.3	-158.8	111.8	99.2	12.61	8.866	
2,500.0	2,492.1	2,487.6	2,472.2	7.4	7.6	-75.12	74.8	-165.1	116.1	103.3	12.76	9.098	
2,565.0	2,556.4	2,552.0	2,534.6	7.6	7.8	-74.49	82.4	-178.7	125.3	112.2	13.08	9.579	
2,600.0	2,591.0	2,586.6	2,568.2	7.7	7.9	-74.18	86.5	-186.0	130.3	117.1	13.26	9.828	
2,660.0	2,650.4	2,646.0	2,625.8	7.9	8.1	-73.71	93.5	-198.5	138.9	125.3	13.57	10.236	
2,700.0	2,689.9	2,685.6	2,664.2	8.1	8.3	-73.42	98.2	-206.9	144.6	130.8	13.77	10.497	
2,755.0	2,744.3	2,740.0	2,717.0	8.2	8.5	-73.06	104.6	-218.4	152.4	138.4	14.06	10.840	
2,800.0	2,788.8	2,784.5	2,760.2	8.4	8.7	-72.80	109.8	-227.8	158.8	144.5	14.30	11.110	
2,850.0	2,838.3	2,834.0	2,808.2	8.6	8.9	-72.53	115.7	-238.2	166.0	151.4	14.56	11.397	
2,900.0	2,887.7	2,883.5	2,856.2	8.8	9.1	-72.28	121.5	-248.7	173.1	158.3	14.83	11.672	
2,945.0	2,932.2	2,928.0	2,899.4	8.9	9.2	-72.07	126.7	-258.1	179.6	164.5	15.08	11.909	
3,000.0	2,986.6	2,982.5	2,952.3	9.1	9.5	-71.84	133.2	-269.6	187.4	172.1	15.38	12.188	
3,040.0	3,026.2	3,022.0	2,990.7	9.3	9.6	-71.68	137.8	-278.0	193.2	177.6	15.60	12.382	
3,100.0	3,085.5	3,081.4	3,048.3	9.5	9.9	-71.46	144.8	-290.5	201.7	185.8	15.93	12.662	
3,135.0	3,120.1	3,116.1	3,081.9	9.6	10.0	-71.34	148.9	-297.8	206.8	190.6	16.13	12.819	
3,200.0	3,184.4	3,180.4	3,144.3	9.9	10.3	-71.13	156.5	-311.4	216.1	199.6	16.49	13.099	
3,230.0	3,214.1	3,210.1	3,173.1	10.0	10.4	-71.04	160.0	-317.7	220.4	203.7	16.66	13.223	
3,300.0	3,283.3	3,279.3	3,240.3	10.3	10.7	-70.84	168.2	-332.3	230.4	213.3	17.06	13.502	
3,325.0	3,308.1	3,304.1	3,264.3	10.4	10.8	-70.78	171.1	-337.6	234.0	216.8	17.21	13.598	
3,400.0	3,382.2	3,378.3	3,336.3	10.7	11.1	-70.59	179.9	-353.2	244.7	227.1	17.64	13.875	
3,420.0	3,402.0	3,398.1	3,355.6	10.7	11.2	-70.54	182.2	-357.4	247.6	229.8	17.75	13.946	
3,500.0	3,481.1	3,477.3	3,432.4	11.1	11.6	-70.36	191.5	-374.1	259.0	240.8	18.22	14.219	
3,515.0	3,496.0	3,492.1	3,446.8	11.1	11.6	-70.33	193.3	-377.3	261.2	242.9	18.31	14.269	
3,600.0	3,580.0	3,576.2	3,528.4	11.5	12.0	-70.16	203.2	-395.0	273.4	254.6	18.80	14.539	
3,610.0	3,589.9	3,586.1	3,538.0	11.5	12.0	-70.14	204.4	-397.1	274.8	256.0	18.86	14.570	
3,700.0	3,678.9	3,675.2	3,624.4	11.9	12.4	-69.98	214.9	-416.0	287.7	268.3	19.39	14.837	
3,705.0	3,683.9	3,680.1	3,629.2	11.9	12.5	-69.97	215.5	-417.0	288.4	269.0	19.42	14.851	
3,800.0	3,777.8	3,774.2	3,720.4	12.3	12.9	-69.82	226.5	-436.9	302.1	282.1	19.99	15.113	
3,895.0	3,871.8	3,868.2	3,811.7	12.6	13.3	-69.67	237.6	-456.7	315.7	295.1	20.55	15.359	
3,900.0	3,876.7	3,873.1	3,816.5	12.7	13.3	-69.67	238.2	-457.8	316.4	295.8	20.58	15.371	
3,990.0	3,965.8	3,962.2	3,902.9	13.0	13.7	-69.54	248.7	-476.6	329.3	308.2	21.13	15.589	
4,000.0	3,975.6	3,972.1	3,912.5	13.1	13.8	-69.53	249.9	-478.7	330.8	309.6	21.19	15.612	
4,085.0	4,059.7	4,056.2	3,994.1	13.4	14.1	-69.42	259.8	-496.4	343.0	321.3	21.70	15.805	
4,100.0	4,074.5	4,071.0	4,008.5	13.5	14.2	-69.40	261.6	-499.6	345.1	323.3	21.79	15.838	
4,127.7	4,101.9	4,098.4	4,035.1	13.6	14.3	-69.37	264.8	-505.4	349.1	327.1	21.94	15.910	
4,180.0	4,153.7	4,150.2	4,085.3	13.8	14.6	-69.35	270.9	-516.3	356.7	334.4	22.25	16.031	
4,200.0	4,173.5	4,170.0	4,104.5	13.9	14.7	-69.32	273.2	-520.5	359.6	337.2	22.37	16.076	
4,275.0	4,247.9	4,244.1	4,176.4	14.2	15.0	-69.14	282.0	-536.1	370.9	348.0	22.85	16.229	
4,300.0	4,272.7	4,268.8	4,200.4	14.3	15.1	-69.05	284.9	-541.4	374.7	351.7	23.02	16.278	
4,370.0	4,342.3	4,337.9	4,267.4	14.5	15.4	-68.74	293.0	-556.0	385.7	362.2	23.50	16.414	
4,400.0	4,372.1	4,367.5	4,296.1	14.6	15.6	-68.58	296.5	-562.2	390.5	366.8	23.71	16.470	
4,465.0	4,436.8	4,431.5	4,358.2	14.9	15.9	-68.18	304.1	-575.7	401.1	376.9	24.17	16.592	
4,500.0	4,471.7	4,465.9	4,391.7	15.0	16.0	-67.93	308.1	-583.0	406.9	382.5	24.43	16.656	
4,560.0	4,531.5	4,524.9	4,448.9	15.2	16.3	-67.47	315.1	-595.5	417.1	392.3	24.88	16.769	
4,600.0	4,571.4	4,564.2	4,487.0	15.4	16.5	-67.13	319.7	-603.8	424.1	398.9	25.18	16.845	
4,655.0	4,626.3	4,623.9	4,545.0	15.6	16.8	-66.60	326.6	-616.1	433.6	408.0	25.63	16.917	
4,700.0	4,671.2	4,674.7	4,594.6	15.7	17.0	-66.18	332.0	-625.7	440.9	414.9	26.02	16.942	
4,750.0	4,721.2	4,731.4	4,650.1	15.9	17.3	-65.74	337.5	-635.6	448.4	422.0	26.44	16.961	
4,800.0	4,771.1	4,788.4	4,706.2	16.0	17.5	-65.33	342.5	-644.6	455.3	428.5	26.84	16.964	
4,845.0	4,816.1	4,840.0	4,757.1	16.2	17.8	-64.98	346.6	-651.8	461.0	433.8	27.18	16.961	
4,900.0	4,871.1	4,903.2	4,819.8	16.3	18.1	-64.58	350.9	-659.7	467.2	439.6	27.57	16.942	

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	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:												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor
+N/-S (usft)	+E/-W (usft)												
4,940.0	4,911.1	4,949.4	4,865.6	16.4	18.3	-64.30		353.7	-664.6	471.2	443.4	27.82	16.936
4,977.9	4,949.0	4,993.3	4,909.2	16.4	18.4	-91.88		356.0	-668.7	474.6	446.5	28.05	16.920
5,000.0	4,971.1	5,019.0	4,934.8	16.4	18.5	-91.73		357.2	-670.8	476.4	448.2	28.16	16.919
5,035.0	5,006.1	5,059.7	4,975.4	16.5	18.7	-91.52		358.8	-673.8	478.9	450.6	28.34	16.901
5,100.0	5,071.1	5,135.6	5,051.1	16.5	19.0	-91.23		361.2	-678.0	482.4	453.8	28.62	16.855
5,130.0	5,101.1	5,170.6	5,086.1	16.5	19.1	-91.14		361.9	-679.3	483.6	454.8	28.74	16.828
5,200.0	5,171.1	5,252.6	5,168.0	16.6	19.3	-91.02		362.8	-681.0	485.0	456.1	28.88	16.791
5,225.0	5,196.1	5,281.9	5,197.3	16.6	19.4	-91.02		362.9	-681.1	485.1	456.2	28.91	16.780
5,227.3	5,198.5	5,284.6	5,200.0	16.6	19.4	-91.02		362.9	-681.1	485.1	456.2	28.91	16.778
5,300.0	5,271.1	5,356.4	5,271.8	16.6	19.4	-91.02		362.9	-681.1	485.1	456.1	29.00	16.728
5,320.0	5,291.1	5,376.4	5,291.8	16.6	19.4	-91.02		362.9	-681.1	485.1	456.1	29.02	16.713
5,400.0	5,371.1	5,456.4	5,371.8	16.7	19.4	-91.02		362.9	-681.1	485.1	455.9	29.13	16.654
5,415.0	5,386.1	5,471.4	5,386.8	16.7	19.4	-91.02		362.9	-681.1	485.1	455.9	29.15	16.643
5,500.0	5,471.1	5,556.4	5,471.8	16.7	19.5	-91.02		362.9	-681.1	485.1	455.8	29.26	16.581
5,510.0	5,481.1	5,566.4	5,481.8	16.7	19.5	-91.02		362.9	-681.1	485.1	455.8	29.27	16.574
5,600.0	5,571.1	5,656.4	5,571.8	16.8	19.5	-91.02		362.9	-681.1	485.1	455.7	29.38	16.508
5,605.0	5,576.1	5,661.4	5,576.8	16.8	19.5	-91.02		362.9	-681.1	485.1	455.7	29.39	16.505
5,700.0	5,671.1	5,756.4	5,671.8	16.8	19.6	-91.02		362.9	-681.1	485.1	455.6	29.51	16.436
5,795.0	5,766.1	5,851.4	5,766.8	16.9	19.6	-91.02		362.9	-681.1	485.1	455.4	29.64	16.368
5,800.0	5,771.1	5,856.4	5,771.8	16.9	19.6	-91.02		362.9	-681.1	485.1	455.4	29.64	16.364
5,890.0	5,861.1	5,946.4	5,861.8	17.0	19.6	-91.02		362.9	-681.1	485.1	455.3	29.76	16.300
5,900.0	5,871.1	5,956.4	5,871.8	17.0	19.6	-91.02		362.9	-681.1	485.1	455.3	29.77	16.293
5,985.0	5,956.1	6,041.4	5,956.8	17.0	19.7	-91.02		362.9	-681.1	485.1	455.2	29.88	16.233
6,000.0	5,971.1	6,056.4	5,971.8	17.0	19.7	-91.02		362.9	-681.1	485.1	455.2	29.90	16.222
6,080.0	6,051.1	6,136.4	6,051.8	17.1	19.7	-91.02		362.9	-681.1	485.1	455.1	30.01	16.166
6,100.0	6,071.1	6,156.4	6,071.8	17.1	19.7	-91.02		362.9	-681.1	485.1	455.0	30.03	16.152
6,175.0	6,146.1	6,231.4	6,146.8	17.1	19.8	-91.02		362.9	-681.1	485.1	454.9	30.13	16.100
6,200.0	6,171.1	6,256.4	6,171.8	17.1	19.8	-91.02		362.9	-681.1	485.1	454.9	30.16	16.082
6,270.0	6,241.1	6,326.4	6,241.8	17.2	19.8	-91.02		362.9	-681.1	485.1	454.8	30.25	16.034
6,300.0	6,271.1	6,356.4	6,271.8	17.2	19.8	-91.02		362.9	-681.1	485.1	454.8	30.29	16.013
6,365.0	6,336.1	6,421.4	6,336.8	17.2	19.9	-91.02		362.9	-681.1	485.1	454.7	30.38	15.968
6,400.0	6,371.1	6,456.4	6,371.8	17.3	19.9	-91.02		362.9	-681.1	485.1	454.7	30.42	15.944
6,460.0	6,431.1	6,516.4	6,431.8	17.3	19.9	-91.02		362.9	-681.1	485.1	454.6	30.50	15.903
6,500.0	6,471.1	6,556.4	6,471.8	17.3	19.9	-91.02		362.9	-681.1	485.1	454.5	30.55	15.876
6,555.0	6,526.1	6,611.4	6,526.8	17.3	19.9	-91.02		362.9	-681.1	485.1	454.4	30.63	15.838
6,600.0	6,571.1	6,656.4	6,571.8	17.4	20.0	-91.02		362.9	-681.1	485.1	454.4	30.69	15.808
6,650.0	6,621.1	6,706.4	6,621.8	17.4	20.0	-91.02		362.9	-681.1	485.1	454.3	30.75	15.774
6,700.0	6,671.1	6,756.4	6,671.8	17.4	20.0	-91.02		362.9	-681.1	485.1	454.3	30.82	15.740
6,745.0	6,716.1	6,801.4	6,716.8	17.5	20.0	-91.02		362.9	-681.1	485.1	454.2	30.88	15.710
6,800.0	6,771.1	6,856.4	6,771.8	17.5	20.1	-91.02		362.9	-681.1	485.1	454.1	30.95	15.673
6,840.0	6,811.1	6,896.4	6,811.8	17.5	20.1	-91.02		362.9	-681.1	485.1	454.1	31.00	15.647
6,900.0	6,871.1	6,956.4	6,871.8	17.6	20.1	-91.02		362.9	-681.1	485.1	454.0	31.08	15.607
6,935.0	6,906.1	6,991.4	6,906.8	17.6	20.1	-91.02		362.9	-681.1	485.1	453.9	31.13	15.584
7,000.0	6,971.1	7,056.4	6,971.8	17.6	20.2	-91.02		362.9	-681.1	485.1	453.9	31.21	15.541
7,030.0	7,001.1	7,086.4	7,001.8	17.6	20.2	-91.02		362.9	-681.1	485.1	453.8	31.25	15.521
7,100.0	7,071.1	7,156.4	7,071.8	17.7	20.2	-91.02		362.9	-681.1	485.1	453.7	31.35	15.475
7,125.0	7,096.1	7,181.4	7,096.8	17.7	20.2	-91.02		362.9	-681.1	485.1	453.7	31.38	15.459
7,200.0	7,171.1	7,256.4	7,171.8	17.7	20.3	-91.02		362.9	-681.1	485.1	453.6	31.48	15.410
7,220.0	7,191.1	7,276.4	7,191.8	17.7	20.3	-91.02		362.9	-681.1	485.1	453.6	31.50	15.397
7,300.0	7,271.1	7,356.4	7,271.8	17.8	20.3	-91.02		362.9	-681.1	485.1	453.5	31.61	15.345
7,315.0	7,286.1	7,371.4	7,286.8	17.8	20.3	-91.02		362.9	-681.1	485.1	453.4	31.63	15.335

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	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	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
7,400.0	7,371.1	7,456.4	7,371.8	17.9	20.3	-91.02	362.9	-681.1	485.1	453.3	31.74	15.281	
7,410.0	7,381.1	7,466.4	7,381.8	17.9	20.4	-91.02	362.9	-681.1	485.1	453.3	31.76	15.274	
7,500.0	7,471.1	7,556.4	7,471.8	17.9	20.4	-91.02	362.9	-681.1	485.1	453.2	31.88	15.217	
7,505.0	7,476.1	7,561.4	7,476.8	17.9	20.4	-91.02	362.9	-681.1	485.1	453.2	31.88	15.214	
7,600.0	7,571.1	7,656.4	7,571.8	18.0	20.4	-91.02	362.9	-681.1	485.1	453.1	32.01	15.153	
7,695.0	7,666.1	7,751.4	7,666.8	18.0	20.5	-91.02	362.9	-681.1	485.1	452.9	32.14	15.093	
7,700.0	7,671.1	7,756.4	7,671.8	18.0	20.5	-91.02	362.9	-681.1	485.1	452.9	32.14	15.090	
7,790.0	7,761.1	7,846.4	7,761.8	18.1	20.5	-91.02	362.9	-681.1	485.1	452.8	32.27	15.034	
7,800.0	7,771.1	7,856.4	7,771.8	18.1	20.5	-91.02	362.9	-681.1	485.1	452.8	32.28	15.028	
7,885.0	7,856.1	7,941.4	7,856.8	18.2	20.6	-91.02	362.9	-681.1	485.1	452.7	32.39	14.975	
7,900.0	7,871.1	7,956.4	7,871.8	18.2	20.6	-91.02	362.9	-681.1	485.1	452.7	32.41	14.965	
7,980.0	7,951.1	8,036.4	7,951.8	18.2	20.6	-91.02	362.9	-681.1	485.1	452.6	32.52	14.916	
8,000.0	7,971.1	8,056.4	7,971.8	18.2	20.6	-91.02	362.9	-681.1	485.1	452.5	32.55	14.904	
8,075.0	8,046.1	8,131.4	8,046.8	18.3	20.7	-91.02	362.9	-681.1	485.1	452.4	32.65	14.858	
8,100.0	8,071.1	8,156.4	8,071.8	18.3	20.7	-91.02	362.9	-681.1	485.1	452.4	32.68	14.842	
8,170.0	8,141.1	8,226.4	8,141.8	18.3	20.7	-91.02	362.9	-681.1	485.1	452.3	32.78	14.800	
8,200.0	8,171.1	8,256.4	8,171.8	18.3	20.7	-91.02	362.9	-681.1	485.1	452.3	32.82	14.781	
8,265.0	8,236.1	8,321.4	8,236.8	18.4	20.8	-91.02	362.9	-681.1	485.1	452.2	32.90	14.742	
8,300.0	8,271.1	8,356.4	8,271.8	18.4	20.8	-91.02	362.9	-681.1	485.1	452.1	32.95	14.721	
8,360.0	8,331.1	8,416.4	8,331.8	18.4	20.8	-91.02	362.9	-681.1	485.1	452.1	33.02	14.690	
8,361.8	8,332.9	8,418.2	8,333.6	18.4	20.8	-91.02	362.9	-681.1	485.1	452.1	33.02	14.689	
8,402.9	8,374.0	8,459.0	8,374.5	18.5	20.8	-91.03	362.8	-681.1	485.1	452.0	33.06	14.673	
8,450.0	8,421.1	8,505.0	8,420.4	18.5	20.8	88.36	360.0	-681.1	485.1	452.0	33.06	14.672	
8,455.0	8,426.0	8,509.9	8,425.2	18.5	20.9	88.35	359.5	-681.1	485.1	452.0	33.06	14.672	
8,500.0	8,470.7	8,553.8	8,468.6	18.6	20.9	88.26	353.1	-681.2	485.1	452.1	33.07	14.671	
8,550.0	8,519.5	8,602.5	8,516.1	18.6	20.9	88.17	342.1	-681.3	485.2	452.1	33.07	14.670	
8,600.0	8,567.3	8,651.2	8,562.3	18.7	20.9	88.09	327.1	-681.4	485.2	452.1	33.08	14.668	
8,645.0	8,609.0	8,694.9	8,602.7	18.7	20.9	88.04	310.4	-681.6	485.2	452.1	33.08	14.665	
8,650.0	8,613.5	8,700.0	8,607.4	18.7	20.9	88.03	308.2	-681.6	485.2	452.1	33.08	14.667	
8,650.1	8,613.6	8,700.0	8,607.4	18.7	20.9	88.03	308.2	-681.6	485.2	452.1	33.08	14.666	
8,700.0	8,658.0	8,748.3	8,650.2	18.8	21.0	87.99	285.8	-681.8	485.2	452.1	33.10	14.660	
8,740.0	8,692.0	8,787.2	8,683.1	18.9	21.0	87.96	265.2	-682.0	485.2	452.1	33.11	14.655	
8,750.0	8,700.3	8,796.9	8,691.1	18.9	21.0	87.96	259.7	-682.0	485.2	452.1	33.11	14.653	
8,800.0	8,740.1	8,845.4	8,729.7	18.9	21.0	87.94	230.3	-682.3	485.2	452.1	33.14	14.643	
8,835.0	8,766.3	8,879.4	8,755.1	19.0	21.0	87.94	207.8	-682.5	485.2	452.1	33.16	14.633	
8,850.0	8,777.1	8,893.9	8,765.6	19.0	21.1	87.94	197.7	-682.6	485.2	452.0	33.17	14.628	
8,900.0	8,811.1	8,942.5	8,798.6	19.0	21.1	87.96	162.2	-682.9	485.2	452.0	33.21	14.610	
8,930.0	8,829.9	8,971.6	8,817.0	19.1	21.1	87.98	139.5	-683.1	485.2	452.0	33.24	14.595	
8,950.0	8,841.7	8,991.0	8,828.6	19.1	21.1	87.99	124.0	-683.2	485.2	451.9	33.27	14.586	
9,000.0	8,868.8	9,039.6	8,855.2	19.2	21.2	88.04	83.3	-683.6	485.2	451.9	33.33	14.556	
9,025.0	8,880.9	9,063.9	8,867.2	19.2	21.2	88.06	62.2	-683.8	485.2	451.8	33.37	14.539	
9,050.0	8,892.1	9,088.2	8,878.3	19.2	21.2	88.09	40.6	-684.0	485.2	451.8	33.41	14.521	
9,100.0	8,911.4	9,136.8	8,897.7	19.3	21.3	88.17	-4.0	-684.4	485.2	451.6	33.50	14.480	
9,120.0	8,918.0	9,156.3	8,904.4	19.3	21.3	88.20	-22.3	-684.5	485.1	451.6	33.55	14.462	
9,150.0	8,926.7	9,185.6	8,913.2	19.3	21.3	88.26	-50.1	-684.8	485.1	451.5	33.61	14.433	
9,200.0	8,937.8	9,234.3	8,924.8	19.3	21.4	88.36	-97.5	-685.2	485.1	451.4	33.73	14.381	
9,215.0	8,940.3	9,249.0	8,927.5	19.3	21.4	88.39	-111.9	-685.3	485.1	451.3	33.77	14.364	
9,250.0	8,944.6	9,283.2	8,932.4	19.4	21.4	88.47	-145.7	-685.6	485.1	451.2	33.87	14.323	
9,302.1	8,947.0	9,334.1	8,935.8	19.4	21.5	88.60	-196.6	-686.1	485.0	451.0	34.02	14.258	
9,310.0	8,947.0	9,341.9	8,936.0	19.4	21.5	88.61	-204.3	-686.1	485.0	451.0	34.05	14.246	
9,342.4	8,947.1	9,374.2	8,936.0	19.4	21.5	88.62	-236.6	-686.4	485.0	450.9	34.15	14.203	

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	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
9,400.0	8,947.1	9,431.8	8,936.1	19.4	21.6	88.62	-294.2	-686.9	485.0	450.7	34.35	14.122	
9,405.0	8,947.2	9,436.8	8,936.1	19.4	21.6	88.62	-299.2	-687.0	485.0	450.7	34.37	14.114	
9,500.0	8,947.3	9,531.8	8,936.3	19.5	21.8	88.62	-394.2	-687.8	485.0	450.3	34.75	13.959	
9,595.0	8,947.4	9,626.8	8,936.5	19.5	21.9	88.62	-489.2	-688.7	485.0	449.9	35.19	13.785	
9,600.0	8,947.4	9,631.8	8,936.5	19.5	21.9	88.62	-494.2	-688.7	485.0	449.8	35.21	13.775	
9,690.0	8,947.6	9,721.8	8,936.6	19.6	22.1	88.62	-584.2	-689.5	485.0	449.4	35.68	13.594	
9,700.0	8,947.6	9,731.8	8,936.6	19.6	22.1	88.62	-594.2	-689.6	485.0	449.3	35.74	13.573	
9,785.0	8,947.7	9,816.8	8,936.8	19.7	22.3	88.62	-679.2	-690.4	485.0	448.8	36.23	13.389	
9,800.0	8,947.7	9,831.8	8,936.8	19.7	22.3	88.62	-694.2	-690.5	485.0	448.7	36.32	13.356	
9,880.0	8,947.9	9,911.8	8,936.9	19.8	22.5	88.62	-774.2	-691.2	485.0	448.2	36.82	13.173	
9,900.0	8,947.9	9,931.8	8,936.9	19.8	22.6	88.62	-794.2	-691.4	485.0	448.1	36.95	13.126	
9,975.0	8,948.0	10,006.8	8,937.1	19.9	22.8	88.63	-869.2	-692.0	485.0	447.6	37.46	12.947	
10,000.0	8,948.0	10,031.8	8,937.1	19.9	22.8	88.63	-894.2	-692.3	485.0	447.4	37.64	12.887	
10,070.0	8,948.1	10,101.8	8,937.2	20.0	23.0	88.63	-964.2	-692.9	485.0	446.9	38.15	12.714	
10,100.0	8,948.2	10,131.8	8,937.3	20.1	23.1	88.63	-994.2	-693.1	485.0	446.7	38.38	12.640	
10,165.0	8,948.3	10,196.8	8,937.4	20.2	23.3	88.63	-1,059.2	-693.7	485.0	446.2	38.88	12.476	
10,200.0	8,948.3	10,231.8	8,937.4	20.2	23.4	88.63	-1,094.2	-694.0	485.0	445.9	39.16	12.387	
10,260.0	8,948.4	10,291.8	8,937.5	20.3	23.6	88.63	-1,154.2	-694.6	485.0	445.4	39.65	12.234	
10,300.0	8,948.5	10,331.8	8,937.6	20.4	23.7	88.63	-1,194.2	-694.9	485.0	445.1	39.98	12.132	
10,355.0	8,948.6	10,386.8	8,937.7	20.5	23.9	88.63	-1,249.2	-695.4	485.0	444.6	40.45	11.990	
10,400.0	8,948.6	10,431.8	8,937.8	20.6	24.0	88.63	-1,294.2	-695.8	485.0	444.2	40.85	11.875	
10,450.0	8,948.7	10,481.8	8,937.8	20.7	24.2	88.63	-1,344.2	-696.3	485.0	443.7	41.30	11.746	
10,500.0	8,948.8	10,531.8	8,937.9	20.9	24.4	88.63	-1,394.2	-696.7	485.0	443.3	41.75	11.618	
10,545.0	8,948.8	10,576.8	8,938.0	21.0	24.5	88.64	-1,439.2	-697.1	485.0	442.9	42.17	11.502	
10,600.0	8,948.9	10,631.8	8,938.1	21.1	24.7	88.64	-1,494.2	-697.6	485.0	442.4	42.69	11.363	
10,640.0	8,949.0	10,671.8	8,938.1	21.3	24.9	88.64	-1,534.2	-697.9	485.0	442.0	43.07	11.261	
10,700.0	8,949.1	10,731.8	8,938.2	21.4	25.1	88.64	-1,594.2	-698.5	485.0	441.4	43.66	11.110	
10,735.0	8,949.1	10,766.8	8,938.3	21.6	25.2	88.64	-1,629.2	-698.8	485.0	441.0	44.01	11.022	
10,800.0	8,949.2	10,831.8	8,938.4	21.8	25.5	88.64	-1,694.2	-699.4	485.0	440.4	44.66	10.860	
10,830.0	8,949.3	10,861.8	8,938.4	21.9	25.6	88.64	-1,724.2	-699.6	485.0	440.1	44.97	10.786	
10,900.0	8,949.4	10,931.8	8,938.6	22.2	25.9	88.64	-1,794.2	-700.2	485.0	439.4	45.69	10.615	
10,925.0	8,949.4	10,956.8	8,938.6	22.3	26.0	88.64	-1,819.2	-700.5	485.0	439.1	45.96	10.555	
11,000.0	8,949.5	11,031.8	8,938.7	22.6	26.3	88.64	-1,894.2	-701.1	485.0	438.3	46.75	10.375	
11,020.0	8,949.5	11,051.8	8,938.8	22.7	26.4	88.64	-1,914.2	-701.3	485.0	438.1	46.97	10.328	
11,100.0	8,949.7	11,131.8	8,938.9	23.0	26.8	88.64	-1,994.2	-702.0	485.0	437.2	47.83	10.140	
11,115.0	8,949.7	11,146.8	8,938.9	23.1	26.9	88.64	-2,009.2	-702.2	485.0	437.0	48.00	10.105	
11,200.0	8,949.8	11,231.8	8,939.0	23.5	27.3	88.65	-2,094.2	-702.9	485.0	436.1	48.94	9.911	
11,210.0	8,949.8	11,241.8	8,939.1	23.6	27.3	88.65	-2,104.1	-703.0	485.0	436.0	49.05	9.888	
11,300.0	8,950.0	11,331.8	8,939.2	24.0	27.7	88.65	-2,194.1	-703.8	485.0	435.0	50.07	9.688	
11,305.0	8,950.0	11,336.8	8,939.2	24.1	27.8	88.65	-2,199.1	-703.8	485.0	434.9	50.12	9.677	
11,400.0	8,950.1	11,431.8	8,939.4	24.6	28.2	88.65	-2,294.1	-704.7	485.0	433.8	51.22	9.470	
11,495.0	8,950.2	11,526.8	8,939.5	25.1	28.7	88.65	-2,389.1	-705.5	485.0	432.7	52.33	9.270	
11,500.0	8,950.3	11,531.8	8,939.5	25.1	28.7	88.65	-2,394.1	-705.6	485.0	432.7	52.38	9.259	
11,590.0	8,950.4	11,621.8	8,939.7	25.6	29.2	88.65	-2,484.1	-706.4	485.0	431.6	53.45	9.075	
11,600.0	8,950.4	11,631.8	8,939.7	25.7	29.2	88.65	-2,494.1	-706.5	485.0	431.5	53.57	9.054	
11,685.0	8,950.5	11,716.8	8,939.8	26.2	29.7	88.65	-2,579.1	-707.2	485.0	430.4	54.59	8.885	
11,700.0	8,950.5	11,731.8	8,939.9	26.3	29.8	88.65	-2,594.1	-707.4	485.0	430.3	54.77	8.856	
11,780.0	8,950.7	11,811.8	8,940.0	26.7	30.2	88.66	-2,674.1	-708.1	485.0	429.3	55.75	8.701	
11,800.0	8,950.7	11,831.8	8,940.0	26.9	30.3	88.66	-2,694.1	-708.2	485.0	429.0	55.99	8.663	
11,875.0	8,950.8	11,906.8	8,940.1	27.3	30.7	88.66	-2,769.1	-708.9	485.0	428.1	56.91	8.522	
11,900.0	8,950.8	11,931.8	8,940.2	27.5	30.9	88.66	-2,794.1	-709.1	485.0	427.8	57.22	8.476	

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	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	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)	Factor	
11,970.0	8,950.9	12,001.8	8,940.3	27.9	31.2	88.66	-2,864.1	-709.7	485.0	426.9	58.09	8.349	
12,000.0	8,951.0	12,031.8	8,940.3	28.1	31.4	88.66	-2,894.1	-710.0	485.0	426.6	58.47	8.296	
12,065.0	8,951.1	12,096.8	8,940.4	28.5	31.8	88.66	-2,959.1	-710.6	485.0	425.8	59.29	8.181	
12,100.0	8,951.1	12,131.8	8,940.5	28.7	32.0	88.66	-2,994.1	-710.9	485.0	425.3	59.73	8.121	
12,160.0	8,951.2	12,191.8	8,940.6	29.1	32.3	88.66	-3,054.1	-711.4	485.0	424.5	60.49	8.018	
12,200.0	8,951.3	12,231.8	8,940.7	29.4	32.6	88.66	-3,094.1	-711.8	485.0	424.0	61.00	7.951	
12,255.0	8,951.4	12,286.8	8,940.7	29.7	32.9	88.66	-3,149.1	-712.3	485.0	423.3	61.71	7.861	
12,300.0	8,951.4	12,331.8	8,940.8	30.0	33.1	88.66	-3,194.1	-712.7	485.0	422.8	62.28	7.788	
12,350.0	8,951.5	12,381.8	8,940.9	30.3	33.4	88.66	-3,244.1	-713.1	485.0	422.1	62.93	7.708	
12,400.0	8,951.6	12,431.8	8,941.0	30.7	33.7	88.67	-3,294.1	-713.6	485.0	421.5	63.58	7.629	
12,445.0	8,951.7	12,476.8	8,941.1	31.0	34.0	88.67	-3,339.1	-714.0	485.0	420.9	64.16	7.559	
12,500.0	8,951.7	12,531.8	8,941.1	31.3	34.3	88.67	-3,394.1	-714.5	485.0	420.2	64.88	7.476	
12,540.0	8,951.8	12,571.8	8,941.2	31.6	34.6	88.67	-3,434.1	-714.8	485.0	419.6	65.41	7.416	
12,600.0	8,951.9	12,631.8	8,941.3	32.0	34.9	88.67	-3,494.1	-715.3	485.0	418.8	66.19	7.328	
12,635.0	8,951.9	12,666.8	8,941.4	32.2	35.2	88.67	-3,529.1	-715.7	485.0	418.4	66.66	7.277	
12,700.0	8,952.0	12,731.8	8,941.5	32.7	35.6	88.67	-3,594.1	-716.2	485.0	417.5	67.52	7.184	
12,730.0	8,952.1	12,761.8	8,941.5	32.9	35.7	88.67	-3,624.1	-716.5	485.0	417.1	67.91	7.142	
12,800.0	8,952.2	12,831.8	8,941.6	33.3	36.2	88.67	-3,694.1	-717.1	485.0	416.2	68.85	7.045	
12,825.0	8,952.2	12,856.8	8,941.7	33.5	36.3	88.67	-3,719.1	-717.3	485.0	415.9	69.18	7.011	
12,900.0	8,952.3	12,931.8	8,941.8	34.0	36.8	88.67	-3,794.1	-718.0	485.0	414.9	70.19	6.911	
12,920.0	8,952.4	12,951.8	8,941.8	34.1	36.9	88.67	-3,814.1	-718.2	485.0	414.6	70.45	6.884	
13,000.0	8,952.5	13,031.8	8,942.0	34.7	37.4	88.67	-3,894.1	-718.9	485.0	413.5	71.53	6.781	
13,015.0	8,952.5	13,046.8	8,942.0	34.8	37.5	88.67	-3,909.1	-719.0	485.0	413.3	71.73	6.762	
13,100.0	8,952.6	13,131.8	8,942.1	35.4	38.1	88.68	-3,994.1	-719.8	485.0	412.2	72.88	6.655	
13,110.0	8,952.6	13,141.8	8,942.1	35.5	38.1	88.68	-4,004.1	-719.9	485.0	412.0	73.02	6.643	
13,200.0	8,952.8	13,231.8	8,942.3	36.1	38.7	88.68	-4,094.1	-720.7	485.0	410.8	74.24	6.533	
13,205.0	8,952.8	13,236.8	8,942.3	36.1	38.7	88.68	-4,099.1	-720.7	485.0	410.7	74.31	6.527	
13,300.0	8,952.9	13,331.8	8,942.4	36.8	39.4	88.68	-4,194.1	-721.6	485.0	409.4	75.61	6.415	
13,395.0	8,953.1	13,426.8	8,942.6	37.4	40.0	88.68	-4,289.1	-722.4	485.0	408.1	76.91	6.306	
13,400.0	8,953.1	13,431.8	8,942.6	37.5	40.0	88.68	-4,294.1	-722.4	485.0	408.1	76.98	6.301	
13,490.0	8,953.2	13,521.8	8,942.7	38.1	40.6	88.68	-4,384.1	-723.2	485.0	406.8	78.22	6.201	
13,500.0	8,953.2	13,531.8	8,942.8	38.2	40.7	88.68	-4,394.1	-723.3	485.0	406.7	78.36	6.190	
13,585.0	8,953.3	13,616.8	8,942.9	38.8	41.2	88.68	-4,479.1	-724.1	485.0	405.5	79.54	6.098	
13,600.0	8,953.4	13,631.8	8,942.9	38.9	41.3	88.68	-4,494.1	-724.2	485.0	405.3	79.74	6.082	
13,680.0	8,953.5	13,711.8	8,943.1	39.4	41.9	88.69	-4,574.0	-724.9	485.0	404.2	80.85	5.999	
13,700.0	8,953.5	13,731.8	8,943.1	39.6	42.0	88.69	-4,594.0	-725.1	485.0	403.9	81.13	5.978	
13,775.0	8,953.6	13,806.8	8,943.2	40.1	42.5	88.69	-4,669.0	-725.8	485.0	402.9	82.18	5.902	
13,800.0	8,953.7	13,831.8	8,943.2	40.3	42.7	88.69	-4,694.0	-726.0	485.0	402.5	82.53	5.877	
13,870.0	8,953.8	13,901.8	8,943.4	40.8	43.1	88.69	-4,764.0	-726.6	485.0	401.5	83.50	5.809	
13,900.0	8,953.8	13,931.8	8,943.4	41.0	43.3	88.69	-4,794.0	-726.9	485.0	401.1	83.92	5.779	
13,965.0	8,953.9	13,996.8	8,943.5	41.5	43.8	88.69	-4,859.0	-727.5	485.0	400.2	84.83	5.717	
14,000.0	8,954.0	14,031.8	8,943.6	41.7	44.0	88.69	-4,894.0	-727.8	485.0	399.7	85.33	5.685	
14,060.0	8,954.0	14,091.8	8,943.7	42.1	44.4	88.69	-4,954.0	-728.3	485.0	398.9	86.17	5.629	
14,100.0	8,954.1	14,131.8	8,943.7	42.4	44.7	88.69	-4,994.0	-728.7	485.0	398.3	86.73	5.592	
14,155.0	8,954.2	14,186.8	8,943.8	42.8	45.0	88.69	-5,049.0	-729.1	485.0	397.5	87.51	5.543	
14,200.0	8,954.2	14,231.8	8,943.9	43.2	45.4	88.69	-5,094.0	-729.5	485.0	396.9	88.14	5.503	
14,250.0	8,954.3	14,281.8	8,944.0	43.5	45.7	88.69	-5,144.0	-730.0	485.0	396.2	88.85	5.459	
14,300.0	8,954.4	14,331.8	8,944.1	43.9	46.0	88.70	-5,194.0	-730.4	485.0	395.5	89.56	5.416	
14,345.0	8,954.5	14,376.8	8,944.1	44.2	46.3	88.70	-5,239.0	-730.8	485.0	394.8	90.20	5.378	
14,400.0	8,954.5	14,431.8	8,944.2	44.6	46.7	88.70	-5,294.0	-731.3	485.0	394.1	90.98	5.331	
14,440.0	8,954.6	14,471.8	8,944.3	44.9	47.0	88.70	-5,334.0	-731.7	485.0	393.5	91.54	5.298	

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	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
14,500.0	8,954.7	14,531.8	8,944.4	45.3	47.4	88.70	-5,394.0	-732.2	485.0	392.6	92.40	5.249	
14,535.0	8,954.7	14,566.8	8,944.4	45.6	47.6	88.70	-5,429.0	-732.5	485.0	392.1	92.90	5.221	
14,600.0	8,954.8	14,631.8	8,944.5	46.0	48.1	88.70	-5,494.0	-733.1	485.0	391.2	93.82	5.170	
14,630.0	8,954.9	14,661.8	8,944.6	46.3	48.3	88.70	-5,524.0	-733.4	485.0	390.8	94.25	5.146	
14,700.0	8,955.0	14,731.8	8,944.7	46.8	48.8	88.70	-5,594.0	-734.0	485.0	389.8	95.25	5.092	
14,725.0	8,955.0	14,756.8	8,944.7	46.9	49.0	88.70	-5,619.0	-734.2	485.0	389.4	95.61	5.073	
14,800.0	8,955.1	14,831.8	8,944.9	47.5	49.5	88.70	-5,694.0	-734.9	485.0	388.4	96.68	5.017	
14,820.0	8,955.2	14,851.8	8,944.9	47.6	49.6	88.70	-5,714.0	-735.0	485.0	388.1	96.97	5.002	
14,900.0	8,955.3	14,931.8	8,945.0	48.2	50.2	88.71	-5,794.0	-735.8	485.0	386.9	98.12	4.943	
14,915.0	8,955.3	14,946.8	8,945.0	48.3	50.3	88.71	-5,809.0	-735.9	485.0	386.7	98.33	4.933	
15,000.0	8,955.4	15,031.8	8,945.2	48.9	50.9	88.71	-5,894.0	-736.6	485.0	385.5	99.55	4.872	
15,010.0	8,955.4	15,041.8	8,945.2	49.0	50.9	88.71	-5,904.0	-736.7	485.0	385.3	99.70	4.865	
15,100.0	8,955.6	15,131.8	8,945.3	49.7	51.6	88.71	-5,994.0	-737.5	485.0	384.0	100.99	4.803	
15,105.0	8,955.6	15,136.8	8,945.4	49.7	51.6	88.71	-5,999.0	-737.6	485.0	384.0	101.06	4.799	
15,200.0	8,955.7	15,231.8	8,945.5	50.4	52.3	88.71	-6,094.0	-738.4	485.0	382.6	102.43	4.735	
15,295.0	8,955.9	15,326.8	8,945.7	51.1	53.0	88.71	-6,189.0	-739.3	485.0	381.2	103.81	4.672	
15,300.0	8,955.9	15,331.8	8,945.7	51.1	53.0	88.71	-6,194.0	-739.3	485.0	381.2	103.88	4.669	
15,390.0	8,956.0	15,421.8	8,945.8	51.8	53.6	88.71	-6,284.0	-740.1	485.0	379.9	105.18	4.611	
15,400.0	8,956.0	15,431.8	8,945.8	51.9	53.7	88.71	-6,294.0	-740.2	485.0	379.7	105.32	4.605	
15,485.0	8,956.1	15,516.8	8,946.0	52.5	54.3	88.71	-6,379.0	-741.0	485.0	378.5	106.56	4.552	
15,500.0	8,956.2	15,531.8	8,946.0	52.6	54.4	88.71	-6,394.0	-741.1	485.0	378.3	106.77	4.543	
15,580.0	8,956.3	15,611.8	8,946.1	53.2	55.0	88.72	-6,474.0	-741.8	485.0	377.1	107.93	4.494	
15,600.0	8,956.3	15,631.8	8,946.2	53.3	55.1	88.72	-6,494.0	-742.0	485.0	376.8	108.23	4.482	
15,675.0	8,956.4	15,706.8	8,946.3	53.9	55.6	88.72	-6,569.0	-742.6	485.0	375.7	109.31	4.437	
15,700.0	8,956.5	15,731.8	8,946.3	54.1	55.8	88.72	-6,594.0	-742.9	485.0	375.4	109.68	4.422	
15,770.0	8,956.6	15,801.8	8,946.4	54.6	56.3	88.72	-6,664.0	-743.5	485.0	374.3	110.70	4.382	
15,800.0	8,956.6	15,831.8	8,946.5	54.8	56.5	88.72	-6,694.0	-743.7	485.0	373.9	111.13	4.364	
15,865.0	8,956.7	15,896.8	8,946.6	55.3	57.0	88.72	-6,759.0	-744.3	485.0	372.9	112.08	4.328	
15,900.0	8,956.8	15,931.8	8,946.6	55.6	57.2	88.72	-6,794.0	-744.6	485.0	372.4	112.59	4.308	
15,960.0	8,956.9	15,991.8	8,946.7	56.0	57.7	88.72	-6,854.0	-745.2	485.0	371.6	113.47	4.275	
16,000.0	8,956.9	16,031.8	8,946.8	56.3	58.0	88.72	-6,894.0	-745.5	485.0	371.0	114.05	4.253	
16,055.0	8,957.0	16,086.8	8,946.9	56.7	58.4	88.72	-6,949.0	-746.0	485.0	370.2	114.85	4.223	
16,100.0	8,957.1	16,131.8	8,947.0	57.0	58.7	88.72	-6,994.0	-746.4	485.0	369.5	115.51	4.199	
16,150.0	8,957.1	16,181.8	8,947.0	57.4	59.0	88.73	-7,043.9	-746.9	485.0	368.8	116.24	4.173	
16,200.0	8,957.2	16,231.8	8,947.1	57.8	59.4	88.73	-7,093.9	-747.3	485.0	368.1	116.97	4.146	
16,245.0	8,957.3	16,276.8	8,947.2	58.1	59.7	88.73	-7,138.9	-747.7	485.0	367.4	117.63	4.123	
16,300.0	8,957.4	16,331.8	8,947.3	58.5	60.1	88.73	-7,193.9	-748.2	485.0	366.6	118.44	4.095	
16,340.0	8,957.4	16,371.8	8,947.3	58.8	60.4	88.73	-7,233.9	-748.5	485.0	366.0	119.02	4.075	
16,400.0	8,957.5	16,431.8	8,947.4	59.3	60.8	88.73	-7,293.9	-749.1	485.0	365.1	119.90	4.045	
16,435.0	8,957.6	16,466.8	8,947.5	59.5	61.1	88.73	-7,328.9	-749.4	485.0	364.6	120.42	4.028	
16,500.0	8,957.7	16,531.8	8,947.6	60.0	61.6	88.73	-7,393.9	-750.0	485.0	363.7	121.37	3.996	
16,530.0	8,957.7	16,561.8	8,947.7	60.2	61.8	88.73	-7,423.9	-750.2	485.0	363.2	121.81	3.982	
16,600.0	8,957.8	16,631.8	8,947.8	60.7	62.3	88.73	-7,493.9	-750.8	485.0	362.2	122.84	3.948	
16,625.0	8,957.8	16,656.8	8,947.8	60.9	62.5	88.73	-7,518.9	-751.1	485.0	361.8	123.21	3.937	
16,700.0	8,957.9	16,731.8	8,947.9	61.5	63.0	88.73	-7,593.9	-751.7	485.0	360.7	124.31	3.902	
16,720.0	8,958.0	16,751.8	8,948.0	61.6	63.1	88.73	-7,613.9	-751.9	485.0	360.4	124.60	3.893	
16,800.0	8,958.1	16,831.8	8,948.1	62.2	63.7	88.74	-7,693.9	-752.6	485.0	359.2	125.78	3.856	
16,815.0	8,958.1	16,846.8	8,948.1	62.3	63.8	88.74	-7,708.9	-752.8	485.0	359.0	126.00	3.849	
16,900.0	8,958.2	16,931.8	8,948.3	63.0	64.5	88.74	-7,793.9	-753.5	485.0	357.8	127.25	3.811	
16,910.0	8,958.3	16,941.8	8,948.3	63.0	64.5	88.74	-7,803.9	-753.6	485.0	357.6	127.40	3.807	
17,000.0	8,958.4	17,031.8	8,948.4	63.7	65.2	88.74	-7,893.9	-754.4	485.0	356.3	128.73	3.768	

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	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:				Offset Well Error: 3.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
17,005.0	8,958.4	17,036.8	8,948.4	63.7	65.2	88.74	-7,898.9	-754.4	485.0	356.2	128.80	3.766			
17,100.0	8,958.5	17,131.8	8,948.6	64.5	65.9	88.74	-7,993.9	-755.3	485.0	354.8	130.20	3.725			
17,195.0	8,958.7	17,226.8	8,948.7	65.2	66.6	88.74	-8,088.9	-756.1	485.0	353.4	131.61	3.685			
17,200.0	8,958.7	17,231.8	8,948.7	65.2	66.6	88.74	-8,093.9	-756.2	485.0	353.3	131.68	3.683			
17,290.0	8,958.8	17,321.8	8,948.9	65.9	67.3	88.74	-8,183.9	-757.0	485.0	352.0	133.01	3.647			
17,300.0	8,958.8	17,331.8	8,948.9	65.9	67.4	88.74	-8,193.9	-757.1	485.0	351.9	133.16	3.642			
17,385.0	8,959.0	17,416.8	8,949.0	66.6	68.0	88.75	-8,278.9	-757.8	485.0	350.6	134.42	3.608			
17,400.0	8,959.0	17,431.8	8,949.1	66.7	68.1	88.75	-8,293.9	-757.9	485.0	350.4	134.64	3.602			
17,480.0	8,959.1	17,511.8	8,949.2	67.3	68.7	88.75	-8,373.9	-758.7	485.0	349.2	135.82	3.571			
17,500.0	8,959.1	17,531.8	8,949.2	67.4	68.8	88.75	-8,393.9	-758.8	485.0	348.9	136.12	3.563			
17,575.0	8,959.2	17,606.8	8,949.3	68.0	69.4	88.75	-8,468.9	-759.5	485.0	347.8	137.23	3.534			
17,600.0	8,959.3	17,631.8	8,949.4	68.2	69.6	88.75	-8,493.9	-759.7	485.0	347.4	137.60	3.525			
17,670.0	8,959.4	17,701.8	8,949.5	68.7	70.1	88.75	-8,563.9	-760.3	485.0	346.4	138.64	3.499			
17,700.0	8,959.4	17,731.8	8,949.5	68.9	70.3	88.75	-8,593.9	-760.6	485.0	345.9	139.08	3.487			
17,765.0	8,959.5	17,796.8	8,949.7	69.4	70.8	88.75	-8,658.9	-761.2	485.0	345.0	140.04	3.463			
17,800.0	8,959.6	17,831.8	8,949.7	69.7	71.0	88.75	-8,693.9	-761.5	485.0	344.5	140.56	3.451			
17,860.0	8,959.7	17,891.8	8,949.8	70.1	71.5	88.75	-8,753.9	-762.0	485.0	343.6	141.45	3.429			
17,900.0	8,959.7	17,931.8	8,949.9	70.4	71.8	88.75	-8,793.9	-762.4	485.0	343.0	142.05	3.415			
17,955.0	8,959.8	17,986.8	8,950.0	70.8	72.2	88.75	-8,848.9	-762.9	485.0	342.2	142.86	3.395			
18,000.0	8,959.9	18,031.8	8,950.0	71.2	72.5	88.75	-8,893.9	-763.3	485.0	341.5	143.53	3.379			
18,050.0	8,959.9	18,081.8	8,950.1	71.6	72.9	88.76	-8,943.9	-763.7	485.0	340.7	144.27	3.362			
18,100.0	8,960.0	18,131.8	8,950.2	71.9	73.2	88.76	-8,993.9	-764.2	485.0	340.0	145.02	3.345			
18,145.0	8,960.1	18,176.8	8,950.3	72.3	73.6	88.76	-9,038.9	-764.6	485.0	339.3	145.69	3.329			
18,200.0	8,960.2	18,231.8	8,950.4	72.7	74.0	88.76	-9,093.9	-765.1	485.0	338.5	146.50	3.311			
18,240.0	8,960.2	18,271.8	8,950.4	73.0	74.2	88.76	-9,133.9	-765.4	485.0	337.9	147.10	3.297			
18,300.0	8,960.3	18,331.8	8,950.5	73.4	74.7	88.76	-9,193.9	-765.9	485.0	337.0	147.99	3.277			
18,335.0	8,960.4	18,366.8	8,950.6	73.7	74.9	88.76	-9,228.9	-766.2	485.0	336.5	148.51	3.266			
18,400.0	8,960.5	18,431.8	8,950.7	74.2	75.4	88.76	-9,293.9	-766.8	485.0	335.5	149.48	3.245			
18,430.0	8,960.5	18,461.8	8,950.7	74.4	75.6	88.76	-9,323.9	-767.1	485.0	335.1	149.93	3.235			
18,500.0	8,960.6	18,531.8	8,950.8	74.9	76.2	88.76	-9,393.9	-767.7	485.0	334.1	150.97	3.213			
18,525.0	8,960.6	18,556.8	8,950.9	75.1	76.3	88.76	-9,418.9	-767.9	485.0	333.7	151.34	3.205			
18,600.0	8,960.8	18,631.8	8,951.0	75.7	76.9	88.76	-9,493.8	-768.6	485.0	332.6	152.46	3.181			
18,620.0	8,960.8	18,651.8	8,951.0	75.8	77.0	88.76	-9,513.8	-768.8	485.0	332.3	152.76	3.175			
18,700.0	8,960.9	18,731.8	8,951.2	76.4	77.6	88.77	-9,593.8	-769.5	485.0	331.1	153.95	3.151			
18,715.0	8,960.9	18,746.8	8,951.2	76.5	77.8	88.77	-9,608.8	-769.6	485.0	330.8	154.17	3.146			
18,800.0	8,961.1	18,831.8	8,951.3	77.2	78.4	88.77	-9,693.8	-770.4	485.0	329.6	155.44	3.120			
18,810.0	8,961.1	18,841.8	8,951.3	77.3	78.5	88.77	-9,703.8	-770.5	485.0	329.4	155.59	3.117			
18,900.0	8,961.2	18,931.8	8,951.5	77.9	79.1	88.77	-9,793.8	-771.3	485.0	328.1	156.93	3.091			
18,905.0	8,961.2	18,936.8	8,951.5	78.0	79.2	88.77	-9,798.8	-771.3	485.0	328.0	157.01	3.089			
19,000.0	8,961.3	19,031.8	8,951.6	78.7	79.9	88.77	-9,893.8	-772.2	485.0	326.6	158.43	3.062			
19,095.0	8,961.5	19,126.8	8,951.8	79.4	80.6	88.77	-9,988.8	-773.0	485.0	325.2	159.85	3.034			
19,100.0	8,961.5	19,131.8	8,951.8	79.4	80.6	88.77	-9,993.8	-773.0	485.0	325.1	159.92	3.033			
19,190.0	8,961.6	19,221.8	8,952.0	80.1	81.3	88.77	-10,083.8	-773.8	485.0	323.8	161.26	3.008			
19,200.0	8,961.6	19,231.8	8,952.0	80.2	81.3	88.77	-10,093.8	-773.9	485.0	323.6	161.41	3.005			
19,285.0	8,961.8	19,316.8	8,952.1	80.8	82.0	88.78	-10,178.8	-774.7	485.0	322.3	162.68	2.981			
19,300.0	8,961.8	19,331.8	8,952.1	80.9	82.1	88.78	-10,193.8	-774.8	485.0	322.1	162.91	2.977			
19,380.0	8,961.9	19,411.8	8,952.3	81.5	82.7	88.78	-10,273.8	-775.5	485.0	320.9	164.10	2.956			
19,400.0	8,961.9	19,431.8	8,952.3	81.7	82.8	88.78	-10,293.8	-775.7	485.0	320.6	164.40	2.950			
19,475.0	8,962.1	19,506.8	8,952.4	82.3	83.4	88.78	-10,368.8	-776.4	485.0	319.5	165.53	2.930			
19,500.0	8,962.1	19,531.8	8,952.5	82.4	83.6	88.78	-10,393.8	-776.6	485.0	319.1	165.90	2.924			
19,570.0	8,962.2	19,601.8	8,952.6	83.0	84.1	88.78	-10,463.8	-777.2	485.0	318.1	166.95	2.905			

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	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	Reference	Offset	Highside	Offset Wellbore Centre		Distance		Minimum		Separation	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Separation (usft)		Factor	
19,600.0	8,962.2	19,631.8	8,952.6	83.2	84.3	88.78	-10,493.8	-777.5	485.0	317.6	167.40	2.897		
19,665.0	8,962.3	19,696.8	8,952.7	83.7	84.8	88.78	-10,558.8	-778.1	485.0	316.7	168.37	2.881		
19,700.0	8,962.4	19,731.8	8,952.8	83.9	85.0	88.78	-10,593.8	-778.4	485.0	316.1	168.89	2.872		
19,760.0	8,962.5	19,791.8	8,952.9	84.4	85.5	88.78	-10,653.8	-778.9	485.0	315.2	169.79	2.857		
19,800.0	8,962.5	19,831.8	8,952.9	84.7	85.8	88.78	-10,693.8	-779.3	485.0	314.6	170.39	2.847		
19,855.0	8,962.6	19,886.8	8,953.0	85.1	86.2	88.78	-10,748.8	-779.7	485.0	313.8	171.21	2.833		
19,900.0	8,962.7	19,931.8	8,953.1	85.5	86.5	88.79	-10,793.8	-780.1	485.0	313.1	171.89	2.822		
19,950.0	8,962.8	19,981.8	8,953.2	85.8	86.9	88.79	-10,843.8	-780.6	485.0	312.4	172.64	2.809		
20,000.0	8,962.8	20,031.8	8,953.3	86.2	87.3	88.79	-10,893.8	-781.0	485.0	311.6	173.39	2.797		
20,045.0	8,962.9	20,076.8	8,953.3	86.5	87.6	88.79	-10,938.8	-781.4	485.0	311.0	174.06	2.786		
20,100.0	8,963.0	20,131.8	8,953.4	87.0	88.0	88.79	-10,993.8	-781.9	485.0	310.1	174.89	2.773		
20,140.0	8,963.0	20,171.8	8,953.5	87.3	88.3	88.79	-11,033.8	-782.3	485.0	309.5	175.49	2.764		
20,200.0	8,963.1	20,231.8	8,953.6	87.7	88.8	88.79	-11,093.8	-782.8	485.0	308.6	176.39	2.750		
20,235.0	8,963.2	20,266.8	8,953.6	88.0	89.0	88.79	-11,128.8	-783.1	485.0	308.1	176.91	2.742		
20,300.0	8,963.3	20,331.8	8,953.7	88.5	89.5	88.79	-11,193.8	-783.7	485.0	307.1	177.89	2.727		
20,330.0	8,963.3	20,361.8	8,953.8	88.7	89.7	88.79	-11,223.8	-784.0	485.0	306.7	178.34	2.720		
20,400.0	8,963.4	20,431.8	8,953.9	89.2	90.3	88.79	-11,293.8	-784.6	485.0	305.6	179.39	2.704		
20,425.0	8,963.5	20,456.8	8,953.9	89.4	90.4	88.79	-11,318.8	-784.8	485.0	305.3	179.76	2.698		
20,500.0	8,963.6	20,531.8	8,954.1	90.0	91.0	88.79	-11,393.8	-785.5	485.0	304.1	180.89	2.681		
20,520.0	8,963.6	20,551.8	8,954.1	90.1	91.1	88.80	-11,413.8	-785.6	485.0	303.8	181.19	2.677		
20,600.0	8,963.7	20,631.8	8,954.2	90.7	91.7	88.80	-11,493.8	-786.4	485.0	302.6	182.39	2.659		
20,615.0	8,963.7	20,646.8	8,954.3	90.8	91.9	88.80	-11,508.8	-786.5	485.0	302.4	182.62	2.656		
20,700.0	8,963.9	20,731.8	8,954.4	91.5	92.5	88.80	-11,593.8	-787.2	485.0	301.1	183.89	2.638		
20,710.0	8,963.9	20,741.8	8,954.4	91.6	92.6	88.80	-11,603.8	-787.3	485.0	301.0	184.04	2.635		
20,800.0	8,964.0	20,831.8	8,954.6	92.2	93.2	88.80	-11,693.8	-788.1	485.0	299.6	185.39	2.616		
20,805.0	8,964.0	20,836.8	8,954.6	92.3	93.3	88.80	-11,698.8	-788.2	485.0	299.5	185.47	2.615		
20,900.0	8,964.2	20,931.8	8,954.7	93.0	94.0	88.80	-11,793.8	-789.0	485.0	298.1	186.90	2.595		
20,995.0	8,964.3	21,026.8	8,954.9	93.7	94.7	88.80	-11,888.8	-789.9	485.0	296.7	188.33	2.575		
21,000.0	8,964.3	21,031.8	8,954.9	93.8	94.7	88.80	-11,893.8	-789.9	485.0	296.6	188.40	2.574		
21,090.0	8,964.4	21,121.8	8,955.0	94.4	95.4	88.80	-11,983.7	-790.7	485.0	295.3	189.75	2.556		
21,100.0	8,964.5	21,131.8	8,955.0	94.5	95.5	88.80	-11,993.7	-790.8	485.0	295.1	189.90	2.554		
21,185.0	8,964.6	21,216.8	8,955.2	95.2	96.1	88.81	-12,078.7	-791.5	485.0	293.8	191.18	2.537		
21,200.0	8,964.6	21,231.8	8,955.2	95.3	96.2	88.81	-12,093.7	-791.7	485.0	293.6	191.41	2.534		
21,280.0	8,964.7	21,311.8	8,955.3	95.9	96.8	88.81	-12,173.7	-792.4	485.0	292.4	192.61	2.518		
21,300.0	8,964.8	21,331.8	8,955.4	96.0	97.0	88.81	-12,193.7	-792.6	485.0	292.1	192.91	2.514		
21,375.0	8,964.9	21,406.8	8,955.5	96.6	97.5	88.81	-12,268.7	-793.2	485.0	291.0	194.04	2.500		
21,400.0	8,964.9	21,431.8	8,955.5	96.8	97.7	88.81	-12,293.7	-793.5	485.0	290.6	194.42	2.495		
21,470.0	8,965.0	21,501.8	8,955.6	97.3	98.2	88.81	-12,363.7	-794.1	485.0	289.5	195.47	2.481		
21,500.0	8,965.0	21,531.8	8,955.7	97.5	98.5	88.81	-12,393.7	-794.3	485.0	289.1	195.92	2.476		
21,565.0	8,965.1	21,596.8	8,955.8	98.0	99.0	88.81	-12,458.7	-794.9	485.0	288.1	196.90	2.463		
21,600.0	8,965.2	21,631.8	8,955.8	98.3	99.2	88.81	-12,493.7	-795.2	485.0	287.6	197.43	2.457		
21,660.0	8,965.3	21,691.8	8,955.9	98.7	99.7	88.81	-12,553.7	-795.8	485.0	286.7	198.33	2.445		
21,700.0	8,965.3	21,731.8	8,956.0	99.0	100.0	88.81	-12,593.7	-796.1	485.0	286.1	198.93	2.438		
21,755.0	8,965.4	21,786.8	8,956.1	99.5	100.4	88.82	-12,648.7	-796.6	485.0	285.3	199.76	2.428		
21,800.0	8,965.5	21,831.8	8,956.2	99.8	100.7	88.82	-12,693.7	-797.0	485.0	284.6	200.44	2.420		
21,850.0	8,965.6	21,881.8	8,956.3	100.2	101.1	88.82	-12,743.7	-797.5	485.0	283.8	201.19	2.411		
21,900.0	8,965.6	21,931.8	8,956.3	100.6	101.5	88.82	-12,793.7	-797.9	485.0	283.1	201.95	2.402		
21,945.0	8,965.7	21,976.8	8,956.4	100.9	101.8	88.82	-12,838.7	-798.3	485.0	282.4	202.62	2.394		
22,000.0	8,965.8	22,031.8	8,956.5	101.3	102.2	88.82	-12,893.7	-798.8	485.0	281.6	203.45	2.384		
22,040.0	8,965.8	22,071.8	8,956.6	101.6	102.5	88.82	-12,933.7	-799.1	485.0	281.0	204.06	2.377		
22,100.0	8,965.9	22,131.8	8,956.7	102.1	103.0	88.82	-12,993.7	-799.7	485.0	280.1	204.96	2.366		

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	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:		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		
22,135.0	8,966.0	22,166.8	8,956.7	102.3	103.2	88.82	-13,028.7	-800.0	485.0	279.5	205.49	2.360	
22,200.0	8,966.1	22,231.8	8,956.8	102.8	103.7	88.82	-13,093.7	-800.6	485.0	278.5	206.47	2.349	
22,230.0	8,966.1	22,261.8	8,956.9	103.1	103.9	88.82	-13,123.7	-800.8	485.0	278.1	206.92	2.344	
22,300.0	8,966.2	22,331.8	8,957.0	103.6	104.5	88.82	-13,193.7	-801.4	485.0	277.0	207.98	2.332	
22,325.0	8,966.3	22,356.8	8,957.0	103.8	104.7	88.82	-13,218.7	-801.7	485.0	276.7	208.35	2.328	
22,400.0	8,966.4	22,431.8	8,957.1	104.3	105.2	88.83	-13,293.7	-802.3	485.0	275.5	209.48	2.315	
22,420.0	8,966.4	22,451.8	8,957.2	104.5	105.4	88.83	-13,313.7	-802.5	485.0	275.2	209.79	2.312	
22,500.0	8,966.5	22,531.8	8,957.3	105.1	106.0	88.83	-13,393.7	-803.2	485.0	274.0	210.99	2.299	
22,515.0	8,966.6	22,546.8	8,957.3	105.2	106.1	88.83	-13,408.7	-803.4	485.0	273.8	211.22	2.296	
22,600.0	8,966.7	22,631.8	8,957.5	105.9	106.7	88.83	-13,493.7	-804.1	485.0	272.5	212.50	2.282	
22,610.0	8,966.7	22,641.8	8,957.5	105.9	106.8	88.83	-13,503.7	-804.2	485.0	272.4	212.65	2.281	
22,700.0	8,966.8	22,731.8	8,957.6	106.6	107.5	88.83	-13,593.7	-805.0	485.0	271.0	214.01	2.266	
22,705.0	8,966.8	22,736.8	8,957.6	106.6	107.5	88.83	-13,598.7	-805.0	485.0	270.9	214.08	2.266	
22,800.0	8,967.0	22,831.8	8,957.8	107.4	108.2	88.83	-13,693.7	-805.9	485.0	269.5	215.52	2.250	
22,895.0	8,967.1	22,926.8	8,957.9	108.1	108.9	88.83	-13,788.7	-806.7	485.0	268.1	216.95	2.236	
22,900.0	8,967.1	22,931.8	8,957.9	108.1	109.0	88.83	-13,793.7	-806.8	485.0	268.0	217.03	2.235	
22,990.0	8,967.3	23,021.8	8,958.1	108.8	109.6	88.83	-13,883.7	-807.6	485.0	266.6	218.39	2.221	
23,000.0	8,967.3	23,031.8	8,958.1	108.9	109.7	88.84	-13,893.7	-807.7	485.0	266.5	218.54	2.219	
23,085.0	8,967.4	23,116.8	8,958.2	109.5	110.4	88.84	-13,978.7	-808.4	485.0	265.2	219.82	2.206	
23,100.0	8,967.4	23,131.8	8,958.3	109.6	110.5	88.84	-13,993.7	-808.5	485.0	265.0	220.05	2.204	
23,180.0	8,967.5	23,211.8	8,958.4	110.2	111.1	88.84	-14,073.7	-809.3	485.0	263.8	221.26	2.192	
23,200.0	8,967.6	23,231.8	8,958.4	110.4	111.2	88.84	-14,093.7	-809.4	485.0	263.5	221.56	2.189	
23,275.0	8,967.7	23,306.8	8,958.6	111.0	111.8	88.84	-14,168.7	-810.1	485.0	262.3	222.69	2.178	
23,300.0	8,967.7	23,331.8	8,958.6	111.2	112.0	88.84	-14,193.7	-810.3	485.0	261.9	223.07	2.174	
23,370.0	8,967.8	23,401.8	8,958.7	111.7	112.5	88.84	-14,263.7	-810.9	485.0	260.9	224.13	2.164	
23,400.0	8,967.9	23,431.8	8,958.8	111.9	112.7	88.84	-14,293.7	-811.2	485.0	260.4	224.58	2.160	
23,465.0	8,968.0	23,496.8	8,958.9	112.4	113.2	88.84	-14,358.7	-811.8	485.0	259.5	225.56	2.150	
23,500.0	8,968.0	23,531.8	8,958.9	112.7	113.5	88.84	-14,393.6	-812.1	485.0	258.9	226.09	2.145	
23,560.0	8,968.1	23,591.8	8,959.0	113.1	113.9	88.84	-14,453.6	-812.6	485.0	258.0	227.00	2.137	
23,600.0	8,968.2	23,631.8	8,959.1	113.4	114.2	88.84	-14,493.6	-813.0	485.0	257.4	227.60	2.131	
23,655.0	8,968.2	23,686.8	8,959.2	113.8	114.6	88.85	-14,548.6	-813.5	485.0	256.6	228.43	2.123	
23,700.0	8,968.3	23,731.8	8,959.2	114.2	115.0	88.85	-14,593.6	-813.9	485.0	255.9	229.11	2.117	
23,750.0	8,968.4	23,781.8	8,959.3	114.6	115.4	88.85	-14,643.6	-814.3	485.0	255.1	229.87	2.110	
23,800.0	8,968.5	23,831.8	8,959.4	114.9	115.7	88.85	-14,693.6	-814.8	485.0	254.4	230.62	2.103	
23,845.0	8,968.5	23,876.8	8,959.5	115.3	116.1	88.85	-14,738.6	-815.2	485.0	253.7	231.30	2.097	
23,900.0	8,968.6	23,931.8	8,959.6	115.7	116.5	88.85	-14,793.6	-815.7	485.0	252.9	232.14	2.089	
23,940.0	8,968.7	23,971.8	8,959.6	116.0	116.8	88.85	-14,833.6	-816.0	485.0	252.3	232.74	2.084	
24,000.0	8,968.7	24,031.8	8,959.7	116.5	117.2	88.85	-14,893.6	-816.5	485.0	251.4	233.65	2.076	
24,035.0	8,968.8	24,066.8	8,959.8	116.7	117.5	88.85	-14,928.6	-816.8	485.0	250.8	234.18	2.071	
24,040.2	8,968.8	24,072.0	8,959.8	116.8	117.5	88.85	-14,933.8	-816.9	485.0	250.8	234.25	2.070	
24,100.0	8,968.9	24,131.8	8,959.9	117.2	118.0	88.85	-14,993.6	-817.4	485.0	249.9	235.16	2.063	
24,130.0	8,968.9	24,161.8	8,959.9	117.4	118.2	88.85	-15,023.6	-817.7	485.0	249.4	235.61	2.059	
24,170.2	8,969.0	24,202.0	8,960.0	117.8	118.5	88.85	-15,063.8	-818.0	485.0	248.8	236.22	2.053	
24,170.7	8,969.0	24,202.5	8,960.0	117.8	118.5	88.85	-15,064.4	-818.1	485.0	248.8	236.23	2.053 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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	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
0.0	0.0	1.1	1.1	3.0	3.0	-91.05	-1.1	-60.0	60.0				
95.0	95.0	96.1	96.1	3.0	3.0	-91.05	-1.1	-60.0	60.0	54.0	6.04	9.941	
100.0	100.0	101.1	101.1	3.0	3.0	-91.05	-1.1	-60.0	60.0	54.0	6.04	9.933	
190.0	190.0	191.1	191.1	3.1	3.1	-91.05	-1.1	-60.0	60.0	53.8	6.25	9.595	
200.0	200.0	201.1	201.1	3.1	3.1	-91.05	-1.1	-60.0	60.0	53.7	6.29	9.545	
285.0	285.0	286.1	286.1	3.3	3.3	-91.05	-1.1	-60.0	60.0	53.5	6.48	9.255	
300.0	300.0	301.1	301.1	3.3	3.3	-91.05	-1.1	-60.0	60.0	53.5	6.52	9.199	
380.0	380.0	381.1	381.1	3.4	3.4	-91.05	-1.1	-60.0	60.0	53.3	6.70	8.952	
400.0	400.0	401.1	401.1	3.4	3.4	-91.05	-1.1	-60.0	60.0	53.3	6.75	8.888	
475.0	475.0	476.1	476.1	3.5	3.5	-91.05	-1.1	-60.0	60.0	53.1	6.91	8.679	
500.0	500.0	501.1	501.1	3.5	3.5	-91.05	-1.1	-60.0	60.0	53.0	6.97	8.607	
570.0	570.0	571.1	571.1	3.6	3.6	-91.05	-1.1	-60.0	60.0	52.9	7.12	8.429	
600.0	600.0	601.1	601.1	3.6	3.6	-91.05	-1.1	-60.0	60.0	52.8	7.19	8.351	
665.0	665.0	666.1	666.1	3.7	3.7	-91.05	-1.1	-60.0	60.0	52.7	7.32	8.199	
700.0	700.0	701.1	701.1	3.8	3.8	-91.05	-1.1	-60.0	60.0	52.6	7.39	8.117	
760.0	760.0	761.1	761.1	3.8	3.8	-91.05	-1.1	-60.0	60.0	52.5	7.51	7.987	
800.0	800.0	801.1	801.1	3.9	3.9	-91.05	-1.1	-60.0	60.0	52.4	7.59	7.901	
855.0	855.0	856.1	856.1	4.0	4.0	-91.05	-1.1	-60.0	60.0	52.3	7.70	7.791	
900.0	900.0	901.1	901.1	4.0	4.0	-91.05	-1.1	-60.0	60.0	52.2	7.79	7.702	
950.0	950.0	951.1	951.1	4.1	4.1	-91.05	-1.1	-60.0	60.0	52.1	7.89	7.609	
1,000.0	1,000.0	1,001.1	1,001.1	4.1	4.1	-91.05	-1.1	-60.0	60.0	52.0	7.98	7.517	
1,045.0	1,045.0	1,046.1	1,046.1	4.2	4.2	-91.05	-1.1	-60.0	60.0	51.9	8.07	7.439	
1,100.0	1,100.0	1,101.1	1,101.1	4.2	4.2	-91.05	-1.1	-60.0	60.0	51.8	8.17	7.345	
1,140.0	1,140.0	1,141.1	1,141.1	4.3	4.3	-91.05	-1.1	-60.0	60.0	51.8	8.24	7.280	
1,200.0	1,200.0	1,201.1	1,201.1	4.4	4.4	-91.05	-1.1	-60.0	60.0	51.7	8.35	7.184	
1,235.0	1,235.0	1,236.1	1,236.1	4.4	4.4	-91.05	-1.1	-60.0	60.0	51.6	8.42	7.131	
1,300.0	1,300.0	1,301.1	1,301.1	4.5	4.5	-91.05	-1.1	-60.0	60.0	51.5	8.53	7.033	
1,330.0	1,330.0	1,331.1	1,331.1	4.5	4.5	-91.05	-1.1	-60.0	60.0	51.4	8.59	6.990	
1,400.0	1,400.0	1,401.1	1,401.1	4.6	4.6	-91.05	-1.1	-60.0	60.0	51.3	8.71	6.891	
1,425.0	1,425.0	1,426.1	1,426.1	4.6	4.6	-91.05	-1.1	-60.0	60.0	51.3	8.75	6.857	
1,437.1	1,437.1	1,438.2	1,438.2	4.6	4.6	-91.05	-1.1	-60.0	60.0	51.2	8.77	6.841 CC	
1,500.0	1,500.0	1,501.1	1,501.1	4.7	4.7	-91.05	-1.1	-60.0	60.0	51.1	8.88	6.757	
1,520.0	1,520.0	1,520.7	1,520.7	4.8	4.7	-63.26	-1.1	-60.1	60.1	51.1	8.94	6.719 ES	
1,600.0	1,600.0	1,600.0	1,600.0	4.9	4.8	-64.14	-0.6	-61.7	60.9	51.7	9.16	6.645	
1,615.0	1,615.0	1,613.8	1,613.8	4.9	4.9	-64.41	-0.4	-62.2	61.2	51.9	9.22	6.632	
1,700.0	1,699.8	1,697.1	1,696.9	5.2	5.0	-66.69	1.0	-66.4	63.5	54.0	9.58	6.631	
1,710.0	1,709.8	1,706.8	1,706.7	5.2	5.0	-67.03	1.2	-67.1	63.9	54.3	9.62	6.641	
1,800.0	1,799.5	1,794.8	1,794.3	5.4	5.3	-70.51	3.5	-74.4	68.2	58.2	9.99	6.827	
1,805.0	1,804.4	1,800.0	1,799.5	5.4	5.3	-70.74	3.7	-74.9	68.5	58.5	10.01	6.840	
1,900.0	1,898.7	1,892.3	1,891.0	5.7	5.5	-75.01	7.1	-85.5	75.1	64.7	10.38	7.240	
1,925.1	1,923.5	1,916.7	1,915.2	5.8	5.6	-76.17	8.2	-88.8	77.3	66.8	10.44	7.400	
1,995.0	1,992.7	1,984.5	1,982.2	5.9	5.8	-78.98	11.4	-98.9	84.2	73.5	10.67	7.892	
2,000.0	1,997.6	1,989.4	1,987.0	5.9	5.9	-79.14	11.7	-99.7	84.8	74.1	10.69	7.932	
2,090.0	2,086.6	2,076.4	2,072.5	6.1	6.1	-81.17	16.6	-115.0	96.0	85.0	11.04	8.699	
2,100.0	2,096.5	2,086.0	2,082.0	6.2	6.2	-81.30	17.2	-116.9	97.4	86.3	11.08	8.794	
2,185.0	2,180.6	2,167.7	2,161.7	6.4	6.5	-81.90	22.6	-133.7	110.3	98.9	11.42	9.655	
2,200.0	2,195.4	2,182.1	2,175.6	6.4	6.5	-81.91	23.6	-136.9	112.8	101.3	11.48	9.818	
2,280.0	2,274.5	2,260.3	2,251.6	6.7	6.8	-81.80	29.4	-154.9	126.4	114.6	11.82	10.692	
2,300.0	2,294.3	2,280.0	2,270.7	6.7	6.8	-81.77	30.9	-159.4	129.8	117.9	11.91	10.903	
2,375.0	2,368.5	2,353.9	2,342.4	7.0	7.1	-81.68	36.3	-176.5	142.7	130.4	12.24	11.660	
2,400.0	2,393.2	2,378.6	2,366.3	7.0	7.2	-81.65	38.1	-182.1	147.0	134.6	12.35	11.903	

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	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:				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			
2,470.0	2,462.5	2,447.5	2,433.2	7.3	7.4	-81.59	43.2	-198.0	159.0	146.3	12.66	12.552			
2,500.0	2,492.1	2,477.1	2,461.9	7.4	7.5	-81.56	45.4	-204.8	164.1	151.3	12.80	12.819			
2,565.0	2,556.4	2,541.1	2,524.1	7.6	7.7	-81.51	50.2	-219.6	175.2	162.1	13.10	13.373			
2,600.0	2,591.0	2,575.6	2,557.5	7.7	7.9	-81.48	52.7	-227.5	181.2	168.0	13.27	13.660			
2,660.0	2,650.4	2,634.7	2,614.9	7.9	8.1	-81.44	57.1	-241.1	191.5	178.0	13.55	14.130			
2,700.0	2,689.9	2,674.1	2,653.1	8.1	8.2	-81.42	60.0	-250.2	198.4	184.6	13.75	14.431			
2,755.0	2,744.3	2,728.3	2,705.7	8.2	8.4	-81.39	64.0	-262.7	207.8	193.8	14.01	14.829			
2,800.0	2,788.8	2,772.6	2,748.7	8.4	8.6	-81.36	67.3	-272.9	215.5	201.3	14.23	15.141			
2,850.0	2,838.3	2,821.9	2,796.5	8.6	8.8	-81.34	70.9	-284.2	224.1	209.6	14.48	15.474			
2,900.0	2,887.7	2,871.2	2,844.3	8.8	9.0	-81.32	74.6	-295.6	232.6	217.9	14.73	15.794			
2,945.0	2,932.2	2,915.5	2,887.3	8.9	9.2	-81.30	77.9	-305.8	240.3	225.4	14.95	16.072			
3,000.0	2,986.6	2,969.7	2,939.9	9.1	9.4	-81.28	81.9	-318.2	249.8	234.5	15.23	16.397			
3,040.0	3,026.2	3,009.1	2,978.1	9.3	9.6	-81.26	84.8	-327.3	256.6	241.2	15.43	16.625			
3,100.0	3,085.5	3,068.2	3,035.5	9.5	9.8	-81.24	89.2	-340.9	266.9	251.1	15.74	16.954			
3,135.0	3,120.1	3,102.7	3,069.0	9.6	9.9	-81.23	91.7	-348.9	272.9	257.0	15.92	17.139			
3,200.0	3,184.4	3,166.7	3,131.1	9.9	10.2	-81.21	96.5	-363.6	284.0	267.8	16.26	17.469			
3,230.0	3,214.1	3,196.3	3,159.8	10.0	10.3	-81.20	98.7	-370.4	289.2	272.7	16.41	17.616			
3,300.0	3,283.3	3,265.3	3,226.7	10.3	10.6	-81.19	103.8	-386.3	301.1	284.4	16.78	17.947			
3,325.0	3,308.1	3,289.9	3,250.6	10.4	10.7	-81.18	105.6	-392.0	305.4	288.5	16.91	18.061			
3,400.0	3,382.2	3,363.8	3,322.3	10.7	11.0	-81.16	111.0	-409.0	318.3	301.0	17.31	18.390			
3,420.0	3,402.0	3,383.5	3,341.4	10.7	11.1	-81.16	112.5	-413.5	321.7	304.3	17.41	18.476			
3,500.0	3,481.1	3,462.3	3,417.9	11.1	11.5	-81.14	118.3	-431.7	335.4	317.6	17.84	18.804			
3,515.0	3,496.0	3,477.1	3,432.2	11.1	11.5	-81.14	119.4	-435.1	338.0	320.1	17.92	18.863			
3,600.0	3,580.0	3,560.8	3,513.5	11.5	11.9	-81.12	125.6	-454.4	352.5	334.2	18.37	19.189			
3,610.0	3,589.9	3,570.7	3,523.0	11.5	12.0	-81.12	126.4	-456.6	354.3	335.8	18.43	19.226			
3,700.0	3,678.9	3,659.3	3,609.1	11.9	12.3	-81.10	132.9	-477.0	369.7	350.8	18.91	19.549			
3,705.0	3,683.9	3,664.3	3,613.9	11.9	12.4	-81.10	133.3	-478.2	370.5	351.6	18.94	19.566			
3,800.0	3,777.8	3,757.9	3,704.7	12.3	12.8	-81.09	140.2	-499.7	386.8	367.4	19.45	19.885			
3,895.0	3,871.8	3,851.5	3,795.5	12.6	13.2	-81.07	147.1	-521.3	403.1	383.1	19.97	20.186			
3,900.0	3,876.7	3,856.4	3,800.3	12.7	13.2	-81.07	147.5	-522.4	403.9	383.9	20.00	20.201			
3,990.0	3,965.8	3,945.1	3,886.3	13.0	13.6	-81.06	154.1	-542.8	419.4	398.9	20.49	20.468			
4,000.0	3,975.6	3,954.9	3,895.9	13.1	13.7	-81.06	154.8	-545.1	421.1	400.5	20.54	20.497			
4,085.0	4,059.7	4,038.6	3,977.1	13.4	14.1	-81.05	161.0	-564.4	435.6	414.6	21.01	20.735			
4,100.0	4,074.5	4,053.4	3,991.5	13.5	14.1	-81.05	162.1	-567.8	438.2	417.1	21.09	20.776			
4,127.7	4,101.9	4,080.7	4,017.9	13.6	14.2	-81.04	164.1	-574.1	442.9	421.7	21.23	20.868			
4,180.0	4,153.7	4,132.2	4,067.9	13.8	14.5	-81.10	167.9	-585.9	451.9	430.4	21.50	21.019			
4,200.0	4,173.5	4,151.9	4,087.0	13.9	14.6	-81.10	169.4	-590.5	455.4	433.8	21.61	21.075			
4,275.0	4,247.9	4,225.8	4,158.7	14.2	14.9	-81.05	174.8	-607.5	468.5	446.4	22.04	21.256			
4,300.0	4,272.7	4,250.4	4,182.6	14.3	15.0	-81.01	176.6	-613.1	472.9	450.7	22.19	21.313			
4,370.0	4,342.3	4,319.2	4,249.4	14.5	15.3	-80.84	181.7	-629.0	485.3	462.7	22.60	21.469			
4,400.0	4,372.1	4,348.7	4,278.0	14.6	15.5	-80.73	183.9	-635.8	490.6	467.8	22.79	21.532			
4,465.0	4,436.8	4,412.6	4,339.9	14.9	15.8	-80.47	188.6	-650.5	502.3	479.1	23.19	21.665			
4,500.0	4,471.7	4,446.9	4,373.3	15.0	15.9	-80.30	191.2	-658.4	508.7	485.3	23.41	21.733			
4,560.0	4,531.5	4,505.8	4,430.4	15.2	16.2	-79.97	195.5	-671.9	519.7	495.9	23.79	21.847			
4,600.0	4,571.4	4,545.0	4,468.4	15.4	16.4	-79.72	198.4	-681.0	527.1	503.1	24.05	21.918			
4,655.0	4,626.3	4,598.8	4,520.7	15.6	16.6	-79.35	202.4	-693.4	537.4	513.0	24.41	22.015			
4,700.0	4,671.2	4,642.8	4,563.4	15.7	16.8	-79.02	205.7	-703.5	546.0	521.3	24.72	22.090			
4,750.0	4,721.2	4,691.7	4,610.8	15.9	17.1	-78.62	209.3	-714.7	555.6	530.5	25.06	22.172			
4,800.0	4,771.1	4,740.5	4,658.1	16.0	17.3	-78.20	212.9	-726.0	565.3	539.9	25.41	22.251			
4,845.0	4,816.1	4,784.3	4,700.7	16.2	17.5	-77.80	216.2	-736.1	574.2	548.4	25.72	22.322			
4,900.0	4,871.1	4,837.9	4,752.6	16.3	17.8	-77.29	220.1	-748.4	585.2	559.0	26.12	22.405			

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	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	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)		
4,940.0	4,911.1	4,876.7	4,790.3	16.4	17.9	-76.90	223.0	-757.4	593.3	566.9	26.39	22.477
4,977.9	4,949.0	4,913.5	4,826.0	16.4	18.1	-104.35	225.7	-765.8	601.0	574.4	26.66	22.544
5,000.0	4,971.1	4,935.0	4,846.8	16.4	18.2	-104.09	227.3	-770.8	605.6	578.8	26.81	22.592
5,035.0	5,006.1	4,968.9	4,879.8	16.5	18.4	-103.67	229.8	-778.6	612.9	585.8	27.06	22.651
5,100.0	5,071.1	5,032.0	4,941.0	16.5	18.7	-102.93	234.5	-793.1	626.4	598.9	27.52	22.762
5,130.0	5,101.1	5,061.1	4,969.2	16.5	18.8	-102.59	236.6	-799.8	632.7	605.0	27.73	22.814
5,200.0	5,171.1	5,129.0	5,035.1	16.6	19.1	-101.84	241.7	-815.5	647.5	619.3	28.23	22.937
5,225.0	5,196.1	5,153.3	5,058.7	16.6	19.2	-101.58	243.5	-821.0	652.8	624.4	28.41	22.981
5,300.0	5,271.1	5,226.1	5,129.3	16.6	19.6	-100.82	248.8	-837.8	668.8	639.8	28.93	23.114
5,320.0	5,291.1	5,245.5	5,148.1	16.6	19.7	-100.63	250.3	-842.3	673.0	644.0	29.07	23.150
5,400.0	5,371.1	5,323.1	5,223.4	16.7	20.0	-99.87	256.0	-860.1	690.2	660.6	29.63	23.294
5,415.0	5,386.1	5,337.7	5,237.6	16.7	20.1	-99.73	257.1	-863.5	693.5	663.7	29.74	23.321
5,500.0	5,471.1	5,420.1	5,317.6	16.7	20.5	-98.97	263.2	-882.5	711.9	681.5	30.32	23.476
5,510.0	5,481.1	5,429.8	5,327.0	16.7	20.6	-98.88	263.9	-884.7	714.0	683.6	30.39	23.494
5,600.0	5,571.1	5,517.2	5,411.7	16.8	21.0	-98.12	270.4	-904.8	733.7	702.7	31.01	23.659
5,605.0	5,576.1	5,522.0	5,416.5	16.8	21.0	-98.08	270.7	-905.9	734.8	703.7	31.04	23.669
5,700.0	5,671.1	5,614.2	5,505.9	16.8	21.4	-97.32	277.6	-927.2	755.6	723.9	31.69	23.844
5,795.0	5,766.1	5,706.4	5,595.3	16.9	21.9	-96.61	284.4	-948.4	776.6	744.2	32.33	24.019
5,800.0	5,771.1	5,711.2	5,600.1	16.9	21.9	-96.57	284.7	-949.5	777.7	745.3	32.37	24.028
5,890.0	5,861.1	5,798.6	5,684.8	17.0	22.3	-95.93	291.2	-969.6	797.7	764.7	32.97	24.194
5,900.0	5,871.1	5,808.3	5,694.2	17.0	22.4	-95.86	291.9	-971.9	799.9	766.8	33.04	24.212
5,985.0	5,956.1	5,890.7	5,774.2	17.0	22.8	-95.28	298.0	-990.8	818.8	785.2	33.60	24.369
6,000.0	5,971.1	5,905.3	5,788.4	17.0	22.8	-95.18	299.1	-994.2	822.2	788.5	33.70	24.396
6,080.0	6,051.1	5,982.9	5,863.7	17.1	23.2	-94.67	304.8	-1,012.1	840.1	805.9	34.23	24.543
6,100.0	6,071.1	6,002.3	5,882.5	17.1	23.3	-94.55	306.3	-1,016.5	844.6	810.2	34.36	24.580
6,175.0	6,146.1	6,075.1	5,953.1	17.1	23.6	-94.09	311.7	-1,033.3	861.5	826.6	34.85	24.716
6,200.0	6,171.1	6,099.4	5,976.7	17.1	23.8	-93.94	313.5	-1,038.9	867.1	832.1	35.02	24.762
6,270.0	6,241.1	6,167.3	6,042.6	17.2	24.1	-93.53	318.5	-1,054.5	882.9	847.4	35.48	24.888
6,300.0	6,271.1	6,196.4	6,070.8	17.2	24.2	-93.37	320.6	-1,061.2	889.7	854.0	35.67	24.943
6,365.0	6,336.1	6,259.5	6,132.0	17.2	24.5	-93.01	325.3	-1,075.7	904.4	868.4	36.09	25.059
6,400.0	6,371.1	6,293.4	6,165.0	17.3	24.7	-92.82	327.8	-1,083.6	912.4	876.1	36.32	25.122
6,460.0	6,431.1	6,374.3	6,243.6	17.3	25.1	-92.40	333.5	-1,101.3	925.4	888.6	36.83	25.127
6,500.0	6,471.1	6,430.6	6,298.8	17.3	25.4	-92.15	337.1	-1,112.4	933.2	896.0	37.16	25.113
6,555.0	6,526.1	6,508.8	6,375.6	17.3	25.7	-91.85	341.5	-1,126.1	942.7	905.1	37.59	25.081
6,600.0	6,571.1	6,573.4	6,439.3	17.4	26.0	-91.64	344.6	-1,135.9	949.5	911.6	37.90	25.051
6,650.0	6,621.1	6,645.6	6,510.9	17.4	26.3	-91.44	347.6	-1,145.2	955.9	917.7	38.22	25.008
6,700.0	6,671.1	6,718.3	6,583.1	17.4	26.6	-91.28	350.1	-1,152.9	961.1	922.6	38.51	24.957
6,745.0	6,716.1	6,784.0	6,648.6	17.5	26.9	-91.17	351.8	-1,158.3	964.8	926.1	38.74	24.908
6,800.0	6,771.1	6,864.6	6,729.1	17.5	27.2	-91.08	353.3	-1,163.0	968.0	929.0	38.96	24.848
6,840.0	6,811.1	6,923.4	6,787.8	17.5	27.4	-91.04	354.0	-1,165.0	969.4	930.3	39.06	24.821
6,900.0	6,871.1	7,011.7	6,876.1	17.6	27.5	-91.02	354.3	-1,166.0	970.0	931.0	39.09	24.818
6,903.8	6,875.0	7,017.4	6,881.8	17.6	27.5	-91.02	354.3	-1,165.9	970.0	930.9	39.09	24.817
6,935.0	6,906.1	7,042.8	6,907.2	17.6	27.5	-91.02	354.3	-1,166.0	970.1	930.9	39.13	24.789
7,000.0	6,971.1	7,107.8	6,972.2	17.6	27.5	-91.02	354.3	-1,166.0	970.1	930.8	39.20	24.743
7,030.0	7,001.1	7,137.8	7,002.2	17.6	27.5	-91.02	354.3	-1,166.0	970.1	930.8	39.24	24.722
7,100.0	7,071.1	7,207.8	7,072.2	17.7	27.6	-91.02	354.3	-1,166.0	970.1	930.7	39.32	24.672
7,125.0	7,096.1	7,232.8	7,097.2	17.7	27.6	-91.02	354.3	-1,166.0	970.1	930.7	39.35	24.655
7,200.0	7,171.1	7,307.8	7,172.2	17.7	27.6	-91.02	354.3	-1,166.0	970.1	930.6	39.43	24.602
7,220.0	7,191.1	7,327.8	7,192.2	17.7	27.6	-91.02	354.3	-1,166.0	970.1	930.6	39.45	24.587
7,300.0	7,271.1	7,407.8	7,272.2	17.8	27.6	-91.02	354.3	-1,166.0	970.1	930.5	39.54	24.531
7,315.0	7,286.1	7,422.8	7,287.2	17.8	27.6	-91.02	354.3	-1,166.0	970.1	930.5	39.56	24.521

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	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	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor
7,400.0	7,371.1	7,507.8	7,372.2	17.9	27.7	-91.02	354.3	-1,166.0	970.1	930.4	39.66	24.461
7,410.0	7,381.1	7,517.8	7,382.2	17.9	27.7	-91.02	354.3	-1,166.0	970.1	930.4	39.67	24.454
7,500.0	7,471.1	7,607.8	7,472.2	17.9	27.7	-91.02	354.3	-1,166.0	970.1	930.3	39.77	24.391
7,505.0	7,476.1	7,612.8	7,477.2	17.9	27.7	-91.02	354.3	-1,166.0	970.1	930.3	39.78	24.388
7,600.0	7,571.1	7,707.8	7,572.2	18.0	27.7	-91.02	354.3	-1,166.0	970.1	930.2	39.88	24.322
7,695.0	7,666.1	7,802.8	7,667.2	18.0	27.8	-91.02	354.3	-1,166.0	970.1	930.1	39.99	24.256
7,700.0	7,671.1	7,807.8	7,672.2	18.0	27.8	-91.02	354.3	-1,166.0	970.1	930.1	40.00	24.252
7,790.0	7,761.1	7,897.8	7,762.2	18.1	27.8	-91.02	354.3	-1,166.0	970.1	930.0	40.10	24.190
7,800.0	7,771.1	7,907.8	7,772.2	18.1	27.8	-91.02	354.3	-1,166.0	970.1	929.9	40.11	24.183
7,885.0	7,856.1	7,992.8	7,857.2	18.2	27.8	-91.02	354.3	-1,166.0	970.1	929.8	40.21	24.125
7,900.0	7,871.1	8,007.8	7,872.2	18.2	27.8	-91.02	354.3	-1,166.0	970.1	929.8	40.23	24.115
7,980.0	7,951.1	8,087.8	7,952.2	18.2	27.9	-91.02	354.3	-1,166.0	970.1	929.7	40.32	24.060
8,000.0	7,971.1	8,107.8	7,972.2	18.2	27.9	-91.02	354.3	-1,166.0	970.1	929.7	40.34	24.046
8,075.0	8,046.1	8,182.8	8,047.2	18.3	27.9	-91.02	354.3	-1,166.0	970.1	929.6	40.43	23.995
8,100.0	8,071.1	8,207.8	8,072.2	18.3	27.9	-91.02	354.3	-1,166.0	970.1	929.6	40.46	23.978
8,170.0	8,141.1	8,277.8	8,142.2	18.3	27.9	-91.02	354.3	-1,166.0	970.1	929.5	40.54	23.930
8,200.0	8,171.1	8,307.8	8,172.2	18.3	27.9	-91.02	354.3	-1,166.0	970.1	929.5	40.57	23.910
8,265.0	8,236.1	8,372.8	8,237.2	18.4	27.9	-91.02	354.3	-1,166.0	970.1	929.4	40.65	23.866
8,300.0	8,271.1	8,407.8	8,272.2	18.4	28.0	-91.02	354.3	-1,166.0	970.1	929.4	40.69	23.843
8,360.0	8,331.1	8,467.8	8,332.2	18.4	28.0	-91.02	354.3	-1,166.0	970.1	929.3	40.74	23.809
8,362.1	8,333.2	8,469.9	8,334.3	18.4	28.0	-91.02	354.3	-1,166.0	970.1	929.3	40.74	23.808
8,402.9	8,374.0	8,509.7	8,374.1	18.5	28.0	-91.04	353.8	-1,166.0	970.1	929.3	40.78	23.788
8,450.0	8,421.1	8,554.6	8,418.8	18.5	28.0	88.34	350.3	-1,166.0	970.1	929.3	40.79	23.785
8,455.0	8,426.0	8,559.4	8,423.6	18.5	28.0	88.33	349.7	-1,166.0	970.1	929.3	40.79	23.785
8,500.0	8,470.7	8,602.2	8,465.8	18.6	28.0	88.24	342.7	-1,166.1	970.2	929.4	40.79	23.782
8,550.0	8,519.5	8,650.0	8,512.2	18.6	28.0	88.15	331.2	-1,166.2	970.2	929.4	40.80	23.779
8,600.0	8,567.3	8,696.9	8,566.7	18.7	28.0	88.08	316.1	-1,166.3	970.3	929.4	40.82	23.771
8,645.0	8,609.0	8,739.5	8,595.8	18.7	28.0	88.02	299.4	-1,166.5	970.3	929.5	40.83	23.765
8,650.0	8,613.5	8,744.2	8,600.0	18.7	28.0	88.01	297.4	-1,166.5	970.3	929.5	40.83	23.764
8,700.0	8,658.0	8,791.4	8,641.6	18.8	28.0	87.97	275.1	-1,166.7	970.3	929.5	40.85	23.754
8,740.0	8,692.0	8,829.1	8,673.5	18.9	28.0	87.94	255.0	-1,166.9	970.3	929.5	40.87	23.744
8,750.0	8,700.3	8,838.5	8,681.2	18.9	28.0	87.94	249.6	-1,166.9	970.3	929.5	40.87	23.741
8,800.0	8,740.1	8,885.6	8,718.6	18.9	28.1	87.92	220.9	-1,167.2	970.4	929.5	40.90	23.724
8,835.0	8,766.3	8,918.6	8,743.2	19.0	28.1	87.91	199.0	-1,167.4	970.4	929.4	40.93	23.710
8,850.0	8,777.1	8,932.7	8,753.4	19.0	28.1	87.92	189.2	-1,167.5	970.4	929.4	40.94	23.703
8,900.0	8,811.1	8,979.8	8,785.6	19.0	28.1	87.93	154.8	-1,167.8	970.3	929.4	40.98	23.677
8,930.0	8,829.9	9,008.1	8,803.4	19.1	28.1	87.94	132.9	-1,168.0	970.3	929.3	41.02	23.658
8,950.0	8,841.7	9,027.0	8,814.8	19.1	28.1	87.96	117.9	-1,168.1	970.3	929.3	41.04	23.645
9,000.0	8,868.8	9,074.1	8,840.9	19.2	28.2	88.00	78.6	-1,168.5	970.3	929.2	41.10	23.607
9,025.0	8,880.9	9,097.8	8,852.7	19.2	28.2	88.02	58.2	-1,168.6	970.3	929.2	41.14	23.586
9,050.0	8,892.1	9,121.4	8,863.7	19.2	28.2	88.05	37.2	-1,168.8	970.3	929.1	41.18	23.563
9,100.0	8,911.4	9,168.7	8,883.0	19.3	28.2	88.12	-5.9	-1,169.2	970.2	929.0	41.26	23.513
9,120.0	8,918.0	9,187.6	8,889.8	19.3	28.2	88.16	-23.6	-1,169.4	970.2	928.9	41.30	23.490
9,150.0	8,926.7	9,216.1	8,898.8	19.3	28.3	88.21	-50.6	-1,169.6	970.2	928.8	41.36	23.456
9,200.0	8,937.8	9,263.6	8,910.8	19.3	28.3	88.31	-96.6	-1,170.0	970.1	928.7	41.47	23.394
9,215.0	8,940.3	9,277.9	8,913.7	19.3	28.3	88.34	-110.6	-1,170.1	970.1	928.6	41.51	23.373
9,250.0	8,944.6	9,311.3	8,919.1	19.4	28.3	88.42	-143.5	-1,170.4	970.1	928.5	41.59	23.325
9,302.1	8,947.0	9,361.1	8,923.4	19.4	28.4	88.54	-193.1	-1,170.9	970.0	928.3	41.72	23.249
9,310.0	8,947.0	9,368.7	8,923.7	19.4	28.4	88.56	-200.7	-1,170.9	970.0	928.3	41.75	23.236
9,327.6	8,947.0	9,385.6	8,924.0	19.4	28.4	88.57	-217.6	-1,171.1	970.0	928.2	41.80	23.205
9,400.0	8,947.1	9,457.9	8,924.1	19.4	28.5	88.58	-289.9	-1,171.7	970.0	928.0	42.02	23.086

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	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	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)		
9,405.0	8,947.2	9,462.9	8,924.1	19.4	28.5	88.58	-294.9	-1,171.8	970.0	928.0	42.03	23.077	
9,500.0	8,947.3	9,557.9	8,924.3	19.5	28.7	88.58	-389.9	-1,172.6	970.0	927.6	42.37	22.894	
9,595.0	8,947.4	9,652.9	8,924.5	19.5	28.8	88.58	-484.9	-1,173.5	970.0	927.3	42.76	22.687	
9,600.0	8,947.4	9,657.9	8,924.5	19.5	28.8	88.58	-489.9	-1,173.5	970.0	927.2	42.78	22.676	
9,690.0	8,947.6	9,747.9	8,924.7	19.6	29.0	88.58	-579.9	-1,174.3	970.0	926.8	43.19	22.459	
9,700.0	8,947.6	9,757.9	8,924.7	19.6	29.0	88.58	-589.9	-1,174.4	970.0	926.8	43.24	22.434	
9,785.0	8,947.7	9,842.9	8,924.9	19.7	29.2	88.59	-674.9	-1,175.2	970.0	926.3	43.67	22.211	
9,800.0	8,947.7	9,857.9	8,924.9	19.7	29.2	88.59	-689.9	-1,175.3	970.0	926.3	43.75	22.171	
9,880.0	8,947.9	9,937.9	8,925.0	19.8	29.4	88.59	-769.9	-1,176.0	970.0	925.8	44.20	21.947	
9,900.0	8,947.9	9,957.9	8,925.1	19.8	29.4	88.59	-789.9	-1,176.2	970.0	925.7	44.31	21.890	
9,975.0	8,948.0	10,032.9	8,925.2	19.9	29.6	88.59	-864.9	-1,176.8	970.0	925.3	44.77	21.668	
10,000.0	8,948.0	10,057.9	8,925.3	19.9	29.6	88.59	-889.9	-1,177.1	970.0	925.1	44.92	21.594	
10,070.0	8,948.1	10,127.9	8,925.4	20.0	29.8	88.59	-959.9	-1,177.7	970.0	924.6	45.38	21.377	
10,100.0	8,948.2	10,157.9	8,925.5	20.1	29.9	88.59	-989.9	-1,178.0	970.0	924.4	45.57	21.284	
10,165.0	8,948.3	10,222.9	8,925.6	20.2	30.0	88.59	-1,054.9	-1,178.5	970.0	924.0	46.02	21.077	
10,200.0	8,948.3	10,257.9	8,925.6	20.2	30.1	88.60	-1,089.9	-1,178.8	970.0	923.8	46.27	20.965	
10,260.0	8,948.4	10,317.9	8,925.8	20.3	30.3	88.60	-1,149.9	-1,179.4	970.0	923.3	46.71	20.768	
10,300.0	8,948.5	10,357.9	8,925.8	20.4	30.4	88.60	-1,189.9	-1,179.7	970.0	923.0	47.00	20.637	
10,355.0	8,948.6	10,412.9	8,925.9	20.5	30.5	88.60	-1,244.9	-1,180.2	970.0	922.6	47.43	20.453	
10,400.0	8,948.6	10,457.9	8,926.0	20.6	30.7	88.60	-1,289.9	-1,180.6	970.0	922.2	47.78	20.303	
10,450.0	8,948.7	10,507.9	8,926.1	20.7	30.8	88.60	-1,339.9	-1,181.1	970.0	921.8	48.18	20.134	
10,500.0	8,948.8	10,557.9	8,926.2	20.9	31.0	88.60	-1,389.9	-1,181.5	970.0	921.4	48.58	19.966	
10,545.0	8,948.8	10,602.9	8,926.3	21.0	31.1	88.60	-1,434.9	-1,181.9	970.0	921.1	48.96	19.813	
10,600.0	8,948.9	10,657.9	8,926.4	21.1	31.3	88.60	-1,489.9	-1,182.4	970.0	920.6	49.43	19.626	
10,640.0	8,949.0	10,697.9	8,926.5	21.3	31.4	88.61	-1,529.9	-1,182.8	970.0	920.3	49.77	19.489	
10,700.0	8,949.1	10,757.9	8,926.6	21.4	31.6	88.61	-1,589.9	-1,183.3	970.0	919.7	50.30	19.285	
10,735.0	8,949.1	10,792.9	8,926.7	21.6	31.7	88.61	-1,624.9	-1,183.6	970.0	919.4	50.61	19.166	
10,800.0	8,949.2	10,857.9	8,926.8	21.8	32.0	88.61	-1,689.9	-1,184.2	970.0	918.8	51.20	18.945	
10,830.0	8,949.3	10,887.9	8,926.8	21.9	32.1	88.61	-1,719.9	-1,184.4	970.0	918.5	51.48	18.843	
10,900.0	8,949.4	10,957.9	8,927.0	22.2	32.3	88.61	-1,789.9	-1,185.1	970.0	917.9	52.13	18.606	
10,925.0	8,949.4	10,982.9	8,927.0	22.3	32.4	88.61	-1,814.9	-1,185.3	970.0	917.7	52.37	18.522	
11,000.0	8,949.5	11,057.9	8,927.2	22.6	32.7	88.61	-1,889.9	-1,186.0	970.0	916.9	53.09	18.271	
11,020.0	8,949.5	11,077.9	8,927.2	22.7	32.8	88.61	-1,909.9	-1,186.1	970.0	916.7	53.29	18.204	
11,100.0	8,949.7	11,157.9	8,927.3	23.0	33.1	88.62	-1,989.9	-1,186.8	970.0	916.0	54.08	17.938	
11,115.0	8,949.7	11,172.9	8,927.4	23.1	33.1	88.62	-2,004.9	-1,187.0	970.0	915.8	54.23	17.889	
11,200.0	8,949.8	11,257.9	8,927.5	23.5	33.5	88.62	-2,089.9	-1,187.7	970.0	914.9	55.08	17.611	
11,210.0	8,949.8	11,267.9	8,927.6	23.6	33.5	88.62	-2,099.9	-1,187.8	970.0	914.8	55.18	17.578	
11,300.0	8,950.0	11,357.9	8,927.7	24.0	33.9	88.62	-2,189.9	-1,188.6	970.0	913.9	56.11	17.287	
11,305.0	8,950.0	11,362.9	8,927.7	24.1	33.9	88.62	-2,194.9	-1,188.7	970.0	913.9	56.16	17.271	
11,400.0	8,950.1	11,457.9	8,927.9	24.6	34.3	88.62	-2,289.9	-1,189.5	970.0	912.9	57.16	16.970	
11,495.0	8,950.2	11,552.9	8,928.1	25.1	34.7	88.63	-2,384.8	-1,190.4	970.0	911.8	58.18	16.673	
11,500.0	8,950.3	11,557.9	8,928.1	25.1	34.7	88.63	-2,389.8	-1,190.4	970.0	911.8	58.23	16.658	
11,590.0	8,950.4	11,647.9	8,928.3	25.6	35.1	88.63	-2,479.8	-1,191.2	970.0	910.8	59.21	16.382	
11,600.0	8,950.4	11,657.9	8,928.3	25.7	35.1	88.63	-2,489.8	-1,191.3	970.0	910.7	59.32	16.352	
11,685.0	8,950.5	11,742.9	8,928.4	26.2	35.5	88.63	-2,574.8	-1,192.0	970.0	909.8	60.26	16.096	
11,700.0	8,950.5	11,757.9	8,928.5	26.3	35.6	88.63	-2,589.8	-1,192.2	970.0	909.6	60.43	16.052	
11,780.0	8,950.7	11,837.9	8,928.6	26.7	36.0	88.63	-2,669.8	-1,192.9	970.0	908.7	61.33	15.817	
11,800.0	8,950.7	11,857.9	8,928.7	26.9	36.1	88.63	-2,689.8	-1,193.1	970.0	908.5	61.55	15.759	
11,875.0	8,950.8	11,932.9	8,928.8	27.3	36.4	88.64	-2,764.8	-1,193.7	970.0	907.6	62.41	15.543	
11,900.0	8,950.8	11,957.9	8,928.9	27.5	36.5	88.64	-2,789.8	-1,194.0	970.0	907.3	62.70	15.472	
11,970.0	8,950.9	12,027.9	8,929.0	27.9	36.9	88.64	-2,859.8	-1,194.6	970.0	906.5	63.50	15.275	

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	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:													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor
								+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)		Warning
12,000.0	8,951.0	12,057.9	8,929.0	28.1	37.0	88.64		-2,889.8	-1,194.8	970.0	906.2	63.85	15.192
12,065.0	8,951.1	12,122.9	8,929.2	28.5	37.3	88.64		-2,954.8	-1,195.4	970.0	905.4	64.61	15.013
12,100.0	8,951.1	12,157.9	8,929.2	28.7	37.5	88.64		-2,989.8	-1,195.7	970.0	905.0	65.02	14.918
12,160.0	8,951.2	12,217.9	8,929.3	29.1	37.8	88.64		-3,049.8	-1,196.3	970.0	904.3	65.73	14.757
12,200.0	8,951.3	12,257.9	8,929.4	29.4	38.0	88.64		-3,089.8	-1,196.6	970.0	903.8	66.21	14.652
12,255.0	8,951.4	12,312.9	8,929.5	29.7	38.3	88.64		-3,144.8	-1,197.1	970.0	903.2	66.86	14.508
12,300.0	8,951.4	12,357.9	8,929.6	30.0	38.5	88.65		-3,189.8	-1,197.5	970.0	902.6	67.40	14.391
12,350.0	8,951.5	12,407.9	8,929.7	30.3	38.8	88.65		-3,239.8	-1,198.0	970.0	902.0	68.01	14.264
12,400.0	8,951.6	12,457.9	8,929.8	30.7	39.0	88.65		-3,289.8	-1,198.4	970.0	901.4	68.61	14.137
12,445.0	8,951.7	12,502.9	8,929.9	31.0	39.2	88.65		-3,334.8	-1,198.8	970.0	900.9	69.16	14.025
12,500.0	8,951.7	12,557.9	8,930.0	31.3	39.5	88.65		-3,389.8	-1,199.3	970.0	900.2	69.84	13.890
12,540.0	8,951.8	12,597.9	8,930.1	31.6	39.7	88.65		-3,429.8	-1,199.6	970.0	899.7	70.33	13.793
12,600.0	8,951.9	12,657.9	8,930.2	32.0	40.1	88.65		-3,489.8	-1,200.2	970.0	899.0	71.07	13.649
12,635.0	8,951.9	12,692.9	8,930.2	32.2	40.3	88.65		-3,524.8	-1,200.5	970.0	898.5	71.50	13.566
12,700.0	8,952.0	12,757.9	8,930.4	32.7	40.6	88.66		-3,589.8	-1,201.1	970.0	897.7	72.31	13.415
12,730.0	8,952.1	12,787.9	8,930.4	32.9	40.8	88.66		-3,619.8	-1,201.3	970.0	897.3	72.69	13.345
12,800.0	8,952.2	12,857.9	8,930.5	33.3	41.1	88.66		-3,689.8	-1,202.0	970.0	896.5	73.57	13.186
12,825.0	8,952.2	12,882.9	8,930.6	33.5	41.3	88.66		-3,714.8	-1,202.2	970.0	896.2	73.88	13.130
12,900.0	8,952.3	12,957.9	8,930.7	34.0	41.7	88.66		-3,789.8	-1,202.8	970.0	895.2	74.83	12.963
12,920.0	8,952.4	12,977.9	8,930.8	34.1	41.8	88.66		-3,809.8	-1,203.0	970.0	895.0	75.08	12.920
13,000.0	8,952.5	13,057.9	8,930.9	34.7	42.3	88.66		-3,889.8	-1,203.7	970.0	893.9	76.10	12.747
13,015.0	8,952.5	13,072.9	8,931.0	34.8	42.3	88.66		-3,904.8	-1,203.9	970.0	893.7	76.29	12.715
13,100.0	8,952.6	13,157.9	8,931.1	35.4	42.8	88.66		-3,989.8	-1,204.6	970.0	892.7	77.38	12.536
13,110.0	8,952.6	13,167.9	8,931.1	35.5	42.9	88.66		-3,999.8	-1,204.7	970.0	892.5	77.51	12.515
13,200.0	8,952.8	13,257.9	8,931.3	36.1	43.4	88.67		-4,089.8	-1,205.5	970.0	891.4	78.67	12.330
13,205.0	8,952.8	13,262.9	8,931.3	36.1	43.4	88.67		-4,094.8	-1,205.6	970.0	891.3	78.74	12.320
13,300.0	8,952.9	13,357.9	8,931.5	36.8	44.0	88.67		-4,189.8	-1,206.4	970.0	890.1	79.97	12.130
13,395.0	8,953.1	13,452.9	8,931.7	37.4	44.5	88.67		-4,284.8	-1,207.2	970.0	888.8	81.21	11.945
13,400.0	8,953.1	13,457.9	8,931.7	37.5	44.6	88.67		-4,289.8	-1,207.3	970.0	888.8	81.28	11.935
13,490.0	8,953.2	13,547.9	8,931.9	38.1	45.1	88.67		-4,379.8	-1,208.1	970.0	887.6	82.46	11.764
13,500.0	8,953.2	13,557.9	8,931.9	38.2	45.1	88.67		-4,389.8	-1,208.2	970.0	887.4	82.59	11.746
13,585.0	8,953.3	13,642.9	8,932.0	38.8	45.6	88.68		-4,474.8	-1,208.9	970.0	886.3	83.71	11.588
13,600.0	8,953.4	13,657.9	8,932.1	38.9	45.7	88.68		-4,489.8	-1,209.1	970.0	886.1	83.91	11.561
13,680.0	8,953.5	13,737.9	8,932.2	39.4	46.2	88.68		-4,569.8	-1,209.8	970.0	885.1	84.97	11.417
13,700.0	8,953.5	13,757.9	8,932.2	39.6	46.3	88.68		-4,589.8	-1,210.0	970.0	884.8	85.23	11.381
13,775.0	8,953.6	13,832.9	8,932.4	40.1	46.8	88.68		-4,664.8	-1,210.6	970.0	883.8	86.23	11.249
13,800.0	8,953.7	13,857.9	8,932.4	40.3	46.9	88.68		-4,689.8	-1,210.8	970.0	883.5	86.57	11.206
13,870.0	8,953.8	13,927.9	8,932.6	40.8	47.4	88.68		-4,759.7	-1,211.5	970.0	882.5	87.50	11.086
13,900.0	8,953.8	13,957.9	8,932.6	41.0	47.5	88.68		-4,789.7	-1,211.7	970.0	882.1	87.90	11.035
13,965.0	8,953.9	14,022.9	8,932.7	41.5	47.9	88.69		-4,854.7	-1,212.3	970.0	881.3	88.78	10.927
14,000.0	8,954.0	14,057.9	8,932.8	41.7	48.2	88.69		-4,889.7	-1,212.6	970.0	880.8	89.25	10.869
14,060.0	8,954.0	14,117.9	8,932.9	42.1	48.5	88.69		-4,949.7	-1,213.2	970.0	880.0	90.06	10.771
14,100.0	8,954.1	14,157.9	8,933.0	42.4	48.8	88.69		-4,989.7	-1,213.5	970.0	879.4	90.60	10.707
14,155.0	8,954.2	14,212.9	8,933.1	42.8	49.1	88.69		-5,044.7	-1,214.0	970.0	878.7	91.34	10.620
14,200.0	8,954.2	14,257.9	8,933.2	43.2	49.4	88.69		-5,089.7	-1,214.4	970.0	878.1	91.95	10.549
14,250.0	8,954.3	14,307.9	8,933.3	43.5	49.7	88.69		-5,139.7	-1,214.8	970.0	877.4	92.63	10.472
14,300.0	8,954.4	14,357.9	8,933.4	43.9	50.0	88.69		-5,189.7	-1,215.3	970.0	876.7	93.31	10.395
14,345.0	8,954.5	14,402.9	8,933.5	44.2	50.3	88.69		-5,234.7	-1,215.7	970.0	876.1	93.93	10.328
14,400.0	8,954.5	14,457.9	8,933.6	44.6	50.7	88.70		-5,289.7	-1,216.2	970.0	875.4	94.68	10.246
14,440.0	8,954.6	14,497.9	8,933.6	44.9	50.9	88.70		-5,329.7	-1,216.5	970.0	874.8	95.23	10.187
14,500.0	8,954.7	14,557.9	8,933.8	45.3	51.3	88.70		-5,389.7	-1,217.1	970.0	874.0	96.05	10.099

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	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)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
14,535.0	8,954.7	14,592.9	8,933.8	45.6	51.5	88.70	-5,424.7	-1,217.4	970.0	873.5	96.53	10.049		
14,600.0	8,954.8	14,657.9	8,933.9	46.0	51.9	88.70	-5,489.7	-1,218.0	970.0	872.6	97.42	9.957		
14,630.0	8,954.9	14,687.9	8,934.0	46.3	52.1	88.70	-5,519.7	-1,218.2	970.0	872.2	97.84	9.915		
14,700.0	8,955.0	14,757.9	8,934.1	46.8	52.6	88.70	-5,589.7	-1,218.8	970.0	871.2	98.80	9.818		
14,725.0	8,955.0	14,782.9	8,934.2	46.9	52.7	88.70	-5,614.7	-1,219.1	970.0	870.9	99.15	9.784		
14,800.0	8,955.1	14,857.9	8,934.3	47.5	53.2	88.71	-5,689.7	-1,219.7	970.0	869.9	100.19	9.682		
14,820.0	8,955.2	14,877.9	8,934.4	47.6	53.3	88.71	-5,709.7	-1,219.9	970.0	869.6	100.46	9.656		
14,900.0	8,955.3	14,957.9	8,934.5	48.2	53.9	88.71	-5,789.7	-1,220.6	970.0	868.5	101.57	9.550		
14,915.0	8,955.3	14,972.9	8,934.5	48.3	54.0	88.71	-5,804.7	-1,220.8	970.0	868.3	101.78	9.531		
15,000.0	8,955.4	15,057.9	8,934.7	48.9	54.5	88.71	-5,889.7	-1,221.5	970.0	867.1	102.96	9.421		
15,010.0	8,955.4	15,067.9	8,934.7	49.0	54.6	88.71	-5,899.7	-1,221.6	970.0	866.9	103.10	9.408		
15,100.0	8,955.6	15,157.9	8,934.9	49.7	55.2	88.71	-5,989.7	-1,222.4	970.0	865.7	104.36	9.295		
15,105.0	8,955.6	15,162.9	8,934.9	49.7	55.2	88.71	-5,994.7	-1,222.4	970.0	865.6	104.43	9.289		
15,200.0	8,955.7	15,257.9	8,935.1	50.4	55.8	88.72	-6,089.7	-1,223.3	970.0	864.3	105.76	9.172		
15,295.0	8,955.9	15,352.9	8,935.3	51.1	56.4	88.72	-6,184.7	-1,224.1	970.0	863.0	107.09	9.058		
15,300.0	8,955.9	15,357.9	8,935.3	51.1	56.5	88.72	-6,189.7	-1,224.2	970.0	862.9	107.16	9.052		
15,390.0	8,956.0	15,447.9	8,935.4	51.8	57.1	88.72	-6,279.7	-1,225.0	970.0	861.6	108.42	8.947		
15,400.0	8,956.0	15,457.9	8,935.5	51.9	57.1	88.72	-6,289.7	-1,225.1	970.0	861.5	108.56	8.935		
15,485.0	8,956.1	15,542.9	8,935.6	52.5	57.7	88.72	-6,374.7	-1,225.8	970.0	860.3	109.76	8.838		
15,500.0	8,956.2	15,557.9	8,935.6	52.6	57.8	88.72	-6,389.7	-1,226.0	970.0	860.1	109.97	8.821		
15,580.0	8,956.3	15,637.9	8,935.8	53.2	58.3	88.72	-6,469.7	-1,226.7	970.0	858.9	111.10	8.731		
15,600.0	8,956.3	15,657.9	8,935.8	53.3	58.5	88.72	-6,489.7	-1,226.9	970.0	858.7	111.38	8.709		
15,675.0	8,956.4	15,732.9	8,936.0	53.9	59.0	88.73	-6,564.7	-1,227.5	970.0	857.6	112.44	8.627		
15,700.0	8,956.5	15,757.9	8,936.0	54.1	59.1	88.73	-6,589.7	-1,227.7	970.0	857.3	112.80	8.600		
15,770.0	8,956.6	15,827.9	8,936.2	54.6	59.6	88.73	-6,659.7	-1,228.4	970.0	856.3	113.79	8.525		
15,800.0	8,956.6	15,857.9	8,936.2	54.8	59.8	88.73	-6,689.7	-1,228.6	970.0	855.8	114.21	8.493		
15,865.0	8,956.7	15,922.9	8,936.3	55.3	60.2	88.73	-6,754.7	-1,229.2	970.0	854.9	115.14	8.425		
15,900.0	8,956.8	15,957.9	8,936.4	55.6	60.5	88.73	-6,789.7	-1,229.5	970.0	854.4	115.63	8.389		
15,960.0	8,956.9	16,017.9	8,936.5	56.0	60.9	88.73	-6,849.7	-1,230.1	970.0	853.6	116.49	8.328		
16,000.0	8,956.9	16,057.9	8,936.6	56.3	61.2	88.73	-6,889.7	-1,230.4	970.0	853.0	117.06	8.287		
16,055.0	8,957.0	16,112.9	8,936.7	56.7	61.5	88.74	-6,944.7	-1,230.9	970.0	852.2	117.84	8.232		
16,100.0	8,957.1	16,157.9	8,936.8	57.0	61.8	88.74	-6,989.7	-1,231.3	970.0	851.6	118.48	8.187		
16,150.0	8,957.1	16,207.9	8,936.9	57.4	62.2	88.74	-7,039.7	-1,231.7	970.1	850.9	119.19	8.138		
16,200.0	8,957.2	16,257.9	8,937.0	57.8	62.5	88.74	-7,089.7	-1,232.2	970.1	850.1	119.91	8.090		
16,245.0	8,957.3	16,302.9	8,937.0	58.1	62.8	88.74	-7,134.6	-1,232.6	970.1	849.5	120.55	8.047		
16,300.0	8,957.4	16,357.9	8,937.2	58.5	63.2	88.74	-7,189.6	-1,233.1	970.1	848.7	121.34	7.995		
16,340.0	8,957.4	16,397.9	8,937.2	58.8	63.5	88.74	-7,229.6	-1,233.4	970.1	848.1	121.91	7.957		
16,400.0	8,957.5	16,457.9	8,937.3	59.3	63.9	88.74	-7,289.6	-1,234.0	970.1	847.3	122.77	7.901		
16,435.0	8,957.6	16,492.9	8,937.4	59.5	64.1	88.74	-7,324.6	-1,234.3	970.1	846.8	123.27	7.869		
16,500.0	8,957.7	16,557.9	8,937.5	60.0	64.6	88.75	-7,389.6	-1,234.9	970.1	845.8	124.20	7.810		
16,530.0	8,957.7	16,587.9	8,937.6	60.2	64.8	88.75	-7,419.6	-1,235.1	970.1	845.4	124.63	7.783		
16,600.0	8,957.8	16,657.9	8,937.7	60.7	65.3	88.75	-7,489.6	-1,235.7	970.1	844.4	125.64	7.721		
16,625.0	8,957.8	16,682.9	8,937.8	60.9	65.4	88.75	-7,514.6	-1,236.0	970.1	844.1	126.00	7.699		
16,700.0	8,957.9	16,757.9	8,937.9	61.5	65.9	88.75	-7,589.6	-1,236.6	970.1	843.0	127.08	7.633		
16,720.0	8,958.0	16,777.9	8,937.9	61.6	66.1	88.75	-7,609.6	-1,236.8	970.1	842.7	127.37	7.616		
16,800.0	8,958.1	16,857.9	8,938.1	62.2	66.6	88.75	-7,689.6	-1,237.5	970.1	841.5	128.52	7.548		
16,815.0	8,958.1	16,872.9	8,938.1	62.3	66.7	88.75	-7,704.6	-1,237.7	970.1	841.3	128.74	7.535		
16,900.0	8,958.2	16,957.9	8,938.3	63.0	67.3	88.76	-7,789.6	-1,238.4	970.1	840.1	129.96	7.464		
16,910.0	8,958.3	16,967.9	8,938.3	63.0	67.4	88.76	-7,799.6	-1,238.5	970.1	839.9	130.11	7.456		
17,000.0	8,958.4	17,057.9	8,938.5	63.7	68.0	88.76	-7,889.6	-1,239.3	970.1	838.6	131.41	7.382		
17,005.0	8,958.4	17,062.9	8,938.5	63.7	68.1	88.76	-7,894.6	-1,239.3	970.1	838.6	131.48	7.378		

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	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		
17,100.0	8,958.5	17,157.9	8,938.7	64.5	68.7	88.76	-7,989.6	-1,240.2	970.1	837.2	132.85	7.302			
17,195.0	8,958.7	17,252.9	8,938.8	65.2	69.4	88.76	-8,084.6	-1,241.0	970.1	835.8	134.23	7.227			
17,200.0	8,958.7	17,257.9	8,938.8	65.2	69.4	88.76	-8,089.6	-1,241.1	970.1	835.8	134.30	7.223			
17,290.0	8,958.8	17,347.9	8,939.0	65.9	70.0	88.77	-8,179.6	-1,241.9	970.1	834.5	135.61	7.154			
17,300.0	8,958.8	17,357.9	8,939.0	65.9	70.1	88.77	-8,189.6	-1,242.0	970.1	834.3	135.75	7.146			
17,385.0	8,959.0	17,442.9	8,939.2	66.6	70.7	88.77	-8,274.6	-1,242.7	970.1	833.1	136.98	7.082			
17,400.0	8,959.0	17,457.9	8,939.2	66.7	70.8	88.77	-8,289.6	-1,242.9	970.1	832.9	137.20	7.070			
17,480.0	8,959.1	17,537.9	8,939.4	67.3	71.4	88.77	-8,369.6	-1,243.6	970.1	831.7	138.36	7.011			
17,500.0	8,959.1	17,557.9	8,939.4	67.4	71.5	88.77	-8,389.6	-1,243.7	970.1	831.4	138.65	6.996			
17,575.0	8,959.2	17,632.9	8,939.6	68.0	72.0	88.77	-8,464.6	-1,244.4	970.1	830.3	139.75	6.942			
17,600.0	8,959.3	17,657.9	8,939.6	68.2	72.2	88.77	-8,489.6	-1,244.6	970.1	829.9	140.11	6.924			
17,670.0	8,959.4	17,727.9	8,939.7	68.7	72.7	88.77	-8,559.6	-1,245.3	970.1	828.9	141.13	6.874			
17,700.0	8,959.4	17,757.9	8,939.8	68.9	72.9	88.78	-8,589.6	-1,245.5	970.1	828.5	141.57	6.852			
17,765.0	8,959.5	17,822.9	8,939.9	69.4	73.4	88.78	-8,654.6	-1,246.1	970.1	827.5	142.51	6.807			
17,800.0	8,959.6	17,857.9	8,940.0	69.7	73.6	88.78	-8,689.6	-1,246.4	970.1	827.0	143.02	6.783			
17,860.0	8,959.7	17,917.9	8,940.1	70.1	74.0	88.78	-8,749.6	-1,246.9	970.1	826.2	143.90	6.741			
17,900.0	8,959.7	17,957.9	8,940.2	70.4	74.3	88.78	-8,789.6	-1,247.3	970.1	825.6	144.48	6.714			
17,955.0	8,959.8	18,012.9	8,940.3	70.8	74.7	88.78	-8,844.6	-1,247.8	970.1	824.8	145.28	6.677			
18,000.0	8,959.9	18,057.9	8,940.4	71.2	75.0	88.78	-8,889.6	-1,248.2	970.1	824.1	145.94	6.647			
18,050.0	8,959.9	18,107.9	8,940.5	71.6	75.4	88.78	-8,939.6	-1,248.6	970.1	823.4	146.67	6.614			
18,100.0	8,960.0	18,157.9	8,940.5	71.9	75.7	88.78	-8,989.6	-1,249.1	970.1	822.7	147.40	6.581			
18,145.0	8,960.1	18,202.9	8,940.6	72.3	76.1	88.79	-9,034.6	-1,249.5	970.1	822.0	148.06	6.552			
18,200.0	8,960.2	18,257.9	8,940.7	72.7	76.5	88.79	-9,089.6	-1,250.0	970.1	821.2	148.87	6.516			
18,240.0	8,960.2	18,297.9	8,940.8	73.0	76.7	88.79	-9,129.6	-1,250.3	970.1	820.6	149.45	6.491			
18,300.0	8,960.3	18,357.9	8,940.9	73.4	77.2	88.79	-9,189.6	-1,250.9	970.1	819.7	150.33	6.453			
18,335.0	8,960.4	18,392.9	8,941.0	73.7	77.4	88.79	-9,224.6	-1,251.2	970.1	819.2	150.84	6.431			
18,400.0	8,960.5	18,457.9	8,941.1	74.2	77.9	88.79	-9,289.6	-1,251.7	970.1	818.3	151.80	6.391			
18,430.0	8,960.5	18,487.9	8,941.2	74.4	78.1	88.79	-9,319.6	-1,252.0	970.1	817.8	152.24	6.372			
18,500.0	8,960.6	18,557.9	8,941.3	74.9	78.6	88.79	-9,389.6	-1,252.6	970.1	816.8	153.26	6.329			
18,525.0	8,960.6	18,582.9	8,941.3	75.1	78.8	88.80	-9,414.6	-1,252.9	970.1	816.4	153.63	6.314			
18,600.0	8,960.8	18,657.9	8,941.5	75.7	79.3	88.80	-9,489.6	-1,253.5	970.1	815.3	154.73	6.269			
18,620.0	8,960.8	18,677.9	8,941.5	75.8	79.4	88.80	-9,509.6	-1,253.7	970.1	815.0	155.02	6.257			
18,700.0	8,960.9	18,757.9	8,941.7	76.4	80.0	88.80	-9,589.5	-1,254.4	970.1	813.9	156.20	6.210			
18,715.0	8,960.9	18,772.9	8,941.7	76.5	80.1	88.80	-9,604.5	-1,254.5	970.1	813.6	156.42	6.202			
18,800.0	8,961.1	18,857.9	8,941.9	77.2	80.7	88.80	-9,689.5	-1,255.3	970.1	812.4	157.67	6.152			
18,810.0	8,961.1	18,867.9	8,941.9	77.3	80.8	88.80	-9,699.5	-1,255.4	970.1	812.2	157.82	6.147			
18,900.0	8,961.2	18,957.9	8,942.1	77.9	81.5	88.80	-9,789.5	-1,256.2	970.1	810.9	159.14	6.096			
18,905.0	8,961.2	18,962.9	8,942.1	78.0	81.5	88.80	-9,794.5	-1,256.2	970.1	810.9	159.22	6.093			
19,000.0	8,961.3	19,057.9	8,942.2	78.7	82.2	88.81	-9,889.5	-1,257.1	970.1	809.5	160.61	6.040			
19,095.0	8,961.5	19,152.9	8,942.4	79.4	82.9	88.81	-9,984.5	-1,257.9	970.1	808.1	162.01	5.988			
19,100.0	8,961.5	19,157.9	8,942.4	79.4	82.9	88.81	-9,989.5	-1,258.0	970.1	808.0	162.09	5.985			
19,190.0	8,961.6	19,247.9	8,942.6	80.1	83.5	88.81	-10,079.5	-1,258.8	970.1	806.7	163.41	5.936			
19,200.0	8,961.6	19,257.9	8,942.6	80.2	83.6	88.81	-10,089.5	-1,258.9	970.1	806.5	163.56	5.931			
19,285.0	8,961.8	19,342.9	8,942.8	80.8	84.2	88.81	-10,174.5	-1,259.6	970.1	805.3	164.82	5.886			
19,300.0	8,961.8	19,357.9	8,942.8	80.9	84.3	88.81	-10,189.5	-1,259.7	970.1	805.0	165.04	5.878			
19,380.0	8,961.9	19,437.9	8,943.0	81.5	84.9	88.82	-10,269.5	-1,260.5	970.1	803.9	166.22	5.836			
19,400.0	8,961.9	19,457.9	8,943.0	81.7	85.0	88.82	-10,289.5	-1,260.6	970.1	803.6	166.51	5.826			
19,475.0	8,962.1	19,532.9	8,943.1	82.3	85.6	88.82	-10,364.5	-1,261.3	970.1	802.4	167.62	5.787			
19,500.0	8,962.1	19,557.9	8,943.2	82.4	85.8	88.82	-10,389.5	-1,261.5	970.1	802.1	167.99	5.775			
19,570.0	8,962.2	19,627.9	8,943.3	83.0	86.3	88.82	-10,459.5	-1,262.1	970.1	801.0	169.02	5.739			
19,600.0	8,962.2	19,657.9	8,943.4	83.2	86.5	88.82	-10,489.5	-1,262.4	970.1	800.6	169.47	5.724			

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	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		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	
19,665.0	8,962.3	19,722.9	8,943.5	83.7	87.0	88.82	-10,554.5	-1,263.0	970.1	799.6	170.43	5.692
19,700.0	8,962.4	19,757.9	8,943.6	83.9	87.2	88.82	-10,589.5	-1,263.3	970.1	799.1	170.95	5.675
19,760.0	8,962.5	19,817.9	8,943.7	84.4	87.6	88.82	-10,649.5	-1,263.8	970.1	798.2	171.83	5.645
19,800.0	8,962.5	19,857.9	8,943.8	84.7	87.9	88.83	-10,689.5	-1,264.2	970.1	797.6	172.43	5.626
19,855.0	8,962.6	19,912.9	8,943.9	85.1	88.3	88.83	-10,744.5	-1,264.7	970.1	796.8	173.24	5.600
19,900.0	8,962.7	19,957.9	8,943.9	85.5	88.7	88.83	-10,789.5	-1,265.1	970.1	796.2	173.91	5.578
19,950.0	8,962.8	20,007.9	8,944.0	85.8	89.0	88.83	-10,839.5	-1,265.5	970.1	795.4	174.65	5.554
20,000.0	8,962.8	20,057.9	8,944.1	86.2	89.4	88.83	-10,889.5	-1,266.0	970.1	794.7	175.39	5.531
20,045.0	8,962.9	20,102.9	8,944.2	86.5	89.7	88.83	-10,934.5	-1,266.4	970.1	794.0	176.06	5.510
20,100.0	8,963.0	20,157.9	8,944.3	87.0	90.1	88.83	-10,989.5	-1,266.9	970.1	793.2	176.87	5.485
20,140.0	8,963.0	20,197.9	8,944.4	87.3	90.4	88.83	-11,029.5	-1,267.2	970.1	792.6	177.46	5.466
20,200.0	8,963.1	20,257.9	8,944.5	87.7	90.8	88.84	-11,089.5	-1,267.7	970.1	791.7	178.35	5.439
20,235.0	8,963.2	20,292.9	8,944.6	88.0	91.1	88.84	-11,124.5	-1,268.1	970.1	791.2	178.87	5.423
20,300.0	8,963.3	20,357.9	8,944.7	88.5	91.6	88.84	-11,189.5	-1,268.6	970.1	790.2	179.84	5.394
20,330.0	8,963.3	20,387.9	8,944.8	88.7	91.8	88.84	-11,219.5	-1,268.9	970.1	789.8	180.28	5.381
20,400.0	8,963.4	20,457.9	8,944.9	89.2	92.3	88.84	-11,289.5	-1,269.5	970.1	788.8	181.32	5.350
20,425.0	8,963.5	20,482.9	8,944.9	89.4	92.5	88.84	-11,314.5	-1,269.7	970.1	788.4	181.69	5.339
20,500.0	8,963.6	20,557.9	8,945.1	90.0	93.0	88.84	-11,389.5	-1,270.4	970.1	787.3	182.81	5.307
20,520.0	8,963.6	20,577.9	8,945.1	90.1	93.2	88.84	-11,409.5	-1,270.6	970.1	787.0	183.10	5.298
20,600.0	8,963.7	20,657.9	8,945.3	90.7	93.8	88.84	-11,489.5	-1,271.3	970.1	785.8	184.29	5.264
20,615.0	8,963.7	20,672.9	8,945.3	90.8	93.9	88.85	-11,504.5	-1,271.4	970.1	785.6	184.51	5.257
20,700.0	8,963.9	20,757.9	8,945.5	91.5	94.5	88.85	-11,589.5	-1,272.2	970.1	784.3	185.78	5.222
20,710.0	8,963.9	20,767.9	8,945.5	91.6	94.6	88.85	-11,599.5	-1,272.3	970.1	784.1	185.93	5.218
20,800.0	8,964.0	20,857.9	8,945.6	92.2	95.2	88.85	-11,689.5	-1,273.1	970.1	782.8	187.27	5.180
20,805.0	8,964.0	20,862.9	8,945.6	92.3	95.2	88.85	-11,694.5	-1,273.1	970.1	782.7	187.34	5.178
20,900.0	8,964.2	20,957.9	8,945.8	93.0	95.9	88.85	-11,789.5	-1,274.0	970.1	781.3	188.75	5.139
20,995.0	8,964.3	21,052.9	8,946.0	93.7	96.6	88.85	-11,884.5	-1,274.8	970.1	779.9	190.17	5.101
21,000.0	8,964.3	21,057.9	8,946.0	93.8	96.7	88.85	-11,889.5	-1,274.9	970.1	779.8	190.24	5.099
21,090.0	8,964.4	21,147.9	8,946.2	94.4	97.3	88.86	-11,979.4	-1,275.7	970.1	778.5	191.58	5.064
21,100.0	8,964.5	21,157.9	8,946.2	94.5	97.4	88.86	-11,989.4	-1,275.7	970.1	778.3	191.73	5.060
21,185.0	8,964.6	21,242.9	8,946.4	95.2	98.0	88.86	-12,074.4	-1,276.5	970.1	777.1	193.00	5.026
21,200.0	8,964.6	21,257.9	8,946.4	95.3	98.1	88.86	-12,089.4	-1,276.6	970.1	776.9	193.22	5.021
21,280.0	8,964.7	21,337.9	8,946.5	95.9	98.7	88.86	-12,169.4	-1,277.3	970.1	775.7	194.41	4.990
21,300.0	8,964.8	21,357.9	8,946.6	96.0	98.9	88.86	-12,189.4	-1,277.5	970.1	775.4	194.71	4.982
21,375.0	8,964.9	21,432.9	8,946.7	96.6	99.4	88.86	-12,264.4	-1,278.2	970.1	774.3	195.83	4.954
21,400.0	8,964.9	21,457.9	8,946.8	96.8	99.6	88.86	-12,289.4	-1,278.4	970.1	773.9	196.20	4.944
21,470.0	8,965.0	21,527.9	8,946.9	97.3	100.1	88.87	-12,359.4	-1,279.0	970.1	772.8	197.25	4.918
21,500.0	8,965.0	21,557.9	8,947.0	97.5	100.3	88.87	-12,389.4	-1,279.3	970.1	772.4	197.69	4.907
21,565.0	8,965.1	21,622.9	8,947.1	98.0	100.8	88.87	-12,454.4	-1,279.9	970.1	771.4	198.66	4.883
21,600.0	8,965.2	21,657.9	8,947.1	98.3	101.1	88.87	-12,489.4	-1,280.2	970.1	770.9	199.18	4.870
21,660.0	8,965.3	21,717.9	8,947.3	98.7	101.5	88.87	-12,549.4	-1,280.7	970.1	770.0	200.08	4.848
21,700.0	8,965.3	21,757.9	8,947.3	99.0	101.8	88.87	-12,589.4	-1,281.1	970.1	769.4	200.68	4.834
21,755.0	8,965.4	21,812.9	8,947.4	99.5	102.2	88.87	-12,644.4	-1,281.6	970.1	768.6	201.50	4.814
21,800.0	8,965.5	21,857.9	8,947.5	99.8	102.5	88.87	-12,689.4	-1,282.0	970.1	767.9	202.17	4.798
21,850.0	8,965.6	21,907.9	8,947.6	100.2	102.9	88.88	-12,739.4	-1,282.4	970.1	767.2	202.92	4.781
21,900.0	8,965.6	21,957.9	8,947.7	100.6	103.3	88.88	-12,789.4	-1,282.9	970.1	766.4	203.66	4.763
21,945.0	8,965.7	22,002.9	8,947.8	100.9	103.6	88.88	-12,834.4	-1,283.3	970.1	765.7	204.34	4.748
22,000.0	8,965.8	22,057.9	8,947.9	101.3	104.0	88.88	-12,889.4	-1,283.8	970.1	764.9	205.16	4.728
22,040.0	8,965.8	22,097.9	8,948.0	101.6	104.3	88.88	-12,929.4	-1,284.1	970.1	764.3	205.76	4.715
22,100.0	8,965.9	22,157.9	8,948.1	102.1	104.7	88.88	-12,989.4	-1,284.6	970.1	763.4	206.65	4.694
22,135.0	8,966.0	22,192.9	8,948.2	102.3	105.0	88.88	-13,024.4	-1,285.0	970.1	762.9	207.18	4.682

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	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:													
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
22,200.0	8,966.1	22,257.9	8,948.3	102.8	105.5	88.88	-13,089.4	-1,285.5	970.1	761.9	208.15	4.661	
22,230.0	8,966.1	22,287.9	8,948.3	103.1	105.7	88.88	-13,119.4	-1,285.8	970.1	761.5	208.60	4.651	
22,300.0	8,966.2	22,357.9	8,948.5	103.6	106.2	88.89	-13,189.4	-1,286.4	970.1	760.4	209.64	4.627	
22,325.0	8,966.3	22,382.9	8,948.5	103.8	106.4	88.89	-13,214.4	-1,286.6	970.1	760.1	210.02	4.619	
22,400.0	8,966.4	22,457.9	8,948.7	104.3	107.0	88.89	-13,289.4	-1,287.3	970.1	758.9	211.14	4.595	
22,420.0	8,966.4	22,477.9	8,948.7	104.5	107.1	88.89	-13,309.4	-1,287.5	970.1	758.6	211.44	4.588	
22,500.0	8,966.5	22,557.9	8,948.8	105.1	107.7	88.89	-13,389.4	-1,288.2	970.1	757.5	212.63	4.562	
22,515.0	8,966.6	22,572.9	8,948.9	105.2	107.8	88.89	-13,404.4	-1,288.3	970.1	757.2	212.86	4.557	
22,600.0	8,966.7	22,657.9	8,949.0	105.9	108.4	88.89	-13,489.4	-1,289.1	970.1	756.0	214.13	4.530	
22,610.0	8,966.7	22,667.9	8,949.1	105.9	108.5	88.89	-13,499.4	-1,289.2	970.1	755.8	214.28	4.527	
22,700.0	8,966.8	22,757.9	8,949.2	106.6	109.2	88.90	-13,589.4	-1,290.0	970.1	754.5	215.63	4.499	
22,705.0	8,966.8	22,762.9	8,949.2	106.6	109.2	88.90	-13,594.4	-1,290.0	970.1	754.4	215.70	4.497	
22,800.0	8,967.0	22,857.9	8,949.4	107.4	109.9	88.90	-13,689.4	-1,290.9	970.1	753.0	217.13	4.468	
22,895.0	8,967.1	22,952.9	8,949.6	108.1	110.6	88.90	-13,784.4	-1,291.7	970.1	751.5	218.55	4.439	
22,900.0	8,967.1	22,957.9	8,949.6	108.1	110.6	88.90	-13,789.4	-1,291.8	970.1	751.5	218.62	4.437	
22,990.0	8,967.3	23,047.9	8,949.8	108.8	111.3	88.90	-13,879.4	-1,292.6	970.1	750.1	219.97	4.410	
23,000.0	8,967.3	23,057.9	8,949.8	108.9	111.4	88.90	-13,889.4	-1,292.6	970.1	750.0	220.12	4.407	
23,085.0	8,967.4	23,142.9	8,950.0	109.5	112.0	88.90	-13,974.4	-1,293.4	970.1	748.7	221.40	4.382	
23,100.0	8,967.4	23,157.9	8,950.0	109.6	112.1	88.91	-13,989.4	-1,293.5	970.1	748.5	221.62	4.377	
23,180.0	8,967.5	23,237.9	8,950.1	110.2	112.7	88.91	-14,069.4	-1,294.2	970.1	747.3	222.82	4.354	
23,200.0	8,967.6	23,257.9	8,950.2	110.4	112.9	88.91	-14,089.4	-1,294.4	970.1	747.0	223.12	4.348	
23,275.0	8,967.7	23,332.9	8,950.3	111.0	113.4	88.91	-14,164.4	-1,295.1	970.1	745.8	224.25	4.326	
23,300.0	8,967.7	23,357.9	8,950.4	111.2	113.6	88.91	-14,189.4	-1,295.3	970.1	745.5	224.62	4.319	
23,370.0	8,967.8	23,427.9	8,950.5	111.7	114.1	88.91	-14,259.4	-1,295.9	970.1	744.4	225.67	4.299	
23,400.0	8,967.9	23,457.9	8,950.5	111.9	114.3	88.91	-14,289.4	-1,296.2	970.1	744.0	226.12	4.290	
23,465.0	8,968.0	23,522.9	8,950.7	112.4	114.8	88.91	-14,354.4	-1,296.8	970.1	743.0	227.10	4.272	
23,500.0	8,968.0	23,557.9	8,950.7	112.7	115.1	88.91	-14,389.3	-1,297.1	970.1	742.5	227.62	4.262	
23,560.0	8,968.1	23,617.9	8,950.8	113.1	115.5	88.92	-14,449.3	-1,297.6	970.1	741.6	228.52	4.245	
23,600.0	8,968.2	23,657.9	8,950.9	113.4	115.8	88.92	-14,489.3	-1,298.0	970.1	741.0	229.12	4.234	
23,655.0	8,968.2	23,712.9	8,951.0	113.8	116.2	88.92	-14,544.3	-1,298.5	970.1	740.1	229.95	4.219	
23,700.0	8,968.3	23,757.9	8,951.1	114.2	116.6	88.92	-14,589.3	-1,298.9	970.1	739.5	230.62	4.206	
23,750.0	8,968.4	23,807.9	8,951.2	114.6	116.9	88.92	-14,639.3	-1,299.3	970.1	738.7	231.37	4.193	
23,800.0	8,968.5	23,857.9	8,951.3	114.9	117.3	88.92	-14,689.3	-1,299.8	970.1	738.0	232.12	4.179	
23,845.0	8,968.5	23,902.9	8,951.4	115.3	117.6	88.92	-14,734.3	-1,300.2	970.1	737.3	232.80	4.167	
23,900.0	8,968.6	23,957.9	8,951.5	115.7	118.1	88.92	-14,789.3	-1,300.6	970.1	736.5	233.63	4.152	
23,940.0	8,968.7	23,997.9	8,951.6	116.0	118.4	88.93	-14,829.3	-1,301.0	970.1	735.9	234.23	4.142	
24,000.0	8,968.7	24,057.9	8,951.7	116.5	118.8	88.93	-14,889.3	-1,301.5	970.1	735.0	235.13	4.126	
24,035.0	8,968.8	24,092.9	8,951.7	116.7	119.1	88.93	-14,924.3	-1,301.8	970.1	734.4	235.65	4.117	
24,040.2	8,968.8	24,098.1	8,951.8	116.8	119.1	88.93	-14,929.5	-1,301.9	970.1	734.4	235.73	4.115	
24,100.0	8,968.9	24,157.9	8,951.9	117.2	119.5	88.93	-14,989.3	-1,302.4	970.1	733.5	236.63	4.100	
24,130.0	8,968.9	24,187.9	8,951.9	117.4	119.8	88.93	-15,019.3	-1,302.7	970.1	733.0	237.08	4.092	
24,170.2	8,969.0	24,228.1	8,952.0	117.8	120.1	88.93	-15,059.5	-1,303.0	970.1	732.4	237.68	4.081	
24,170.7	8,969.0	24,228.7	8,952.0	117.8	120.1	88.93	-15,060.1	-1,303.1	970.1	732.4	237.69	4.081 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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	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 +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	-0.19	149.9	-0.5	149.9					
95.0	95.0	91.7	91.7	3.0	3.0	-0.19	149.9	-0.5	149.9	143.9	6.04	24.838		
100.0	100.0	96.7	96.7	3.0	3.0	-0.19	149.9	-0.5	149.9	143.9	6.04	24.818		
190.0	190.0	186.7	186.7	3.1	3.1	-0.19	149.9	-0.5	149.9	143.6	6.25	23.973		
200.0	200.0	196.7	196.7	3.1	3.1	-0.19	149.9	-0.5	149.9	143.6	6.29	23.841		
285.0	285.0	281.7	281.7	3.3	3.2	-0.19	149.9	-0.5	149.9	143.4	6.50	23.072		
300.0	300.0	296.7	296.7	3.3	3.3	-0.19	149.9	-0.5	149.9	143.4	6.54	22.925		
380.0	380.0	376.7	376.7	3.4	3.4	-0.19	149.9	-0.5	149.9	143.2	6.73	22.259		
400.0	400.0	396.7	396.7	3.4	3.4	-0.19	149.9	-0.5	149.9	143.1	6.79	22.086		
475.0	475.0	471.7	471.7	3.5	3.5	-0.19	149.9	-0.5	149.9	142.9	6.97	21.507		
500.0	500.0	496.7	496.7	3.5	3.5	-0.19	149.9	-0.5	149.9	142.9	7.03	21.312		
570.0	570.0	566.7	566.7	3.6	3.6	-0.19	149.9	-0.5	149.9	142.7	7.20	20.810		
600.0	600.0	596.7	596.7	3.6	3.6	-0.19	149.9	-0.5	149.9	142.6	7.28	20.594		
665.0	665.0	661.7	661.7	3.7	3.7	-0.19	149.9	-0.5	149.9	142.5	7.44	20.160		
700.0	700.0	696.7	696.7	3.8	3.8	-0.19	149.9	-0.5	149.9	142.4	7.52	19.927		
760.0	760.0	756.7	756.7	3.8	3.8	-0.19	149.9	-0.5	149.9	142.2	7.67	19.552		
800.0	800.0	796.7	796.7	3.9	3.9	-0.19	149.9	-0.5	149.9	142.1	7.77	19.304		
855.0	855.0	851.7	851.7	4.0	3.9	-0.19	149.9	-0.5	149.9	142.0	7.90	18.982		
900.0	900.0	896.7	896.7	4.0	4.0	-0.19	149.9	-0.5	149.9	141.9	8.01	18.722		
950.0	950.0	946.7	946.7	4.1	4.1	-0.19	149.9	-0.5	149.9	141.8	8.13	18.447		
1,000.0	1,000.0	996.7	996.7	4.1	4.1	-0.19	149.9	-0.5	149.9	141.7	8.25	18.176		
1,045.0	1,045.0	1,041.7	1,041.7	4.2	4.2	-0.19	149.9	-0.5	149.9	141.5	8.35	17.944		
1,100.0	1,100.0	1,096.7	1,096.7	4.2	4.2	-0.19	149.9	-0.5	149.9	141.4	8.49	17.663		
1,140.0	1,140.0	1,136.7	1,136.7	4.3	4.3	-0.19	149.9	-0.5	149.9	141.3	8.58	17.468		
1,200.0	1,200.0	1,196.7	1,196.7	4.4	4.4	-0.19	149.9	-0.5	149.9	141.2	8.73	17.180		
1,235.0	1,235.0	1,231.7	1,231.7	4.4	4.4	-0.19	149.9	-0.5	149.9	141.1	8.81	17.019		
1,300.0	1,300.0	1,296.7	1,296.7	4.5	4.5	-0.19	149.9	-0.5	149.9	140.9	8.96	16.724		
1,330.0	1,330.0	1,326.7	1,326.7	4.5	4.5	-0.19	149.9	-0.5	149.9	140.9	9.03	16.593		
1,400.0	1,400.0	1,396.7	1,396.7	4.6	4.6	-0.19	149.9	-0.5	149.9	140.7	9.20	16.293		
1,425.0	1,425.0	1,421.7	1,421.7	4.6	4.6	-0.19	149.9	-0.5	149.9	140.6	9.26	16.190		
1,500.0	1,500.0	1,496.7	1,496.7	4.7	4.7	-0.19	149.9	-0.5	149.9	140.5	9.44	15.885		
1,520.0	1,520.0	1,516.1	1,516.1	4.8	4.7	27.66	149.9	-0.5	149.9	140.4	9.50	15.778		
1,600.0	1,600.0	1,593.5	1,593.5	4.9	4.9	28.39	150.9	0.7	149.4	139.6	9.75	15.323		
1,615.0	1,615.0	1,608.0	1,607.9	4.9	4.9	28.63	151.2	1.0	149.3	139.4	9.81	15.214		
1,700.0	1,699.8	1,689.9	1,689.7	5.2	5.1	30.71	154.0	4.3	148.2	138.0	10.17	14.567		
1,710.0	1,709.8	1,700.0	1,699.8	5.2	5.1	31.04	154.5	4.8	148.0	137.8	10.22	14.488		
1,800.0	1,799.5	1,785.8	1,785.3	5.4	5.3	34.63	159.2	10.3	146.8	136.2	10.61	13.839		
1,805.0	1,804.4	1,790.6	1,790.1	5.4	5.3	34.87	159.5	10.6	146.7	136.1	10.63	13.805		
1,898.0	1,896.7	1,879.0	1,877.9	5.7	5.6	40.01	166.3	18.4	146.1	135.1	11.03	13.242 CC		
1,900.0	1,898.7	1,880.9	1,879.8	5.7	5.6	40.13	166.4	18.6	146.1	135.1	11.04	13.231 ES		
1,925.1	1,923.5	1,904.6	1,903.3	5.8	5.7	41.75	168.6	21.1	146.2	135.1	11.11	13.155		
1,995.0	1,992.7	1,970.5	1,968.4	5.9	5.9	46.49	175.1	28.7	147.8	136.4	11.35	13.020		
2,000.0	1,997.6	1,975.2	1,973.0	5.9	5.9	46.83	175.6	29.3	148.0	136.6	11.37	13.019		
2,090.0	2,086.6	2,059.3	2,055.7	6.1	6.2	53.02	185.5	40.7	154.1	142.3	11.72	13.149		
2,100.0	2,096.5	2,068.6	2,064.9	6.2	6.2	53.70	186.7	42.1	155.0	143.2	11.75	13.186		
2,185.0	2,180.6	2,147.2	2,141.7	6.4	6.5	59.23	197.5	54.6	165.2	153.1	12.09	13.667		
2,200.0	2,195.4	2,161.0	2,155.2	6.4	6.5	60.15	199.5	57.0	167.4	155.2	12.14	13.782		
2,280.0	2,274.5	2,236.2	2,228.2	6.7	6.8	64.86	211.3	70.5	180.7	168.3	12.46	14.509		
2,300.0	2,294.3	2,255.6	2,247.0	6.7	6.8	65.97	214.3	74.1	184.3	171.8	12.54	14.704		
2,375.0	2,368.5	2,328.1	2,317.4	7.0	7.1	69.77	225.8	87.4	198.4	185.6	12.84	15.448		
2,400.0	2,393.2	2,352.3	2,340.9	7.0	7.2	70.92	229.6	91.8	203.3	190.3	12.95	15.699		

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	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	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)		
2,470.0	2,462.5	2,420.1	2,406.6	7.3	7.4	73.88	240.3	104.2	217.3	204.0	13.25	16.401	
2,500.0	2,492.1	2,449.1	2,434.8	7.4	7.5	75.03	244.9	109.5	223.4	210.1	13.38	16.700	
2,565.0	2,556.4	2,512.0	2,495.8	7.6	7.7	77.32	254.9	121.0	237.1	223.4	13.67	17.344	
2,600.0	2,591.0	2,545.9	2,528.6	7.7	7.8	78.45	260.2	127.2	244.6	230.7	13.83	17.684	
2,660.0	2,650.4	2,603.9	2,585.0	7.9	8.0	80.24	269.4	137.9	257.6	243.5	14.11	18.260	
2,700.0	2,689.9	2,642.6	2,622.5	8.1	8.2	81.34	275.6	144.9	266.4	252.1	14.29	18.635	
2,755.0	2,744.3	2,695.9	2,674.2	8.2	8.4	82.73	284.0	154.7	278.6	264.1	14.56	19.142	
2,800.0	2,788.8	2,739.4	2,716.4	8.4	8.5	83.78	290.9	162.7	288.8	274.0	14.77	19.545	
2,850.0	2,838.3	2,787.8	2,763.4	8.6	8.7	84.87	298.5	171.5	300.1	285.1	15.02	19.984	
2,900.0	2,887.7	2,836.2	2,810.3	8.8	8.9	85.88	306.2	180.4	311.6	296.3	15.27	20.410	
2,945.0	2,932.2	2,879.7	2,852.6	8.9	9.1	86.73	313.1	188.4	322.0	306.5	15.49	20.783	
3,000.0	2,986.6	2,932.9	2,904.2	9.1	9.3	87.69	321.5	198.1	334.8	319.0	15.77	21.227	
3,040.0	3,026.2	2,971.6	2,941.8	9.3	9.4	88.35	327.6	205.2	344.1	328.1	15.97	21.541	
3,100.0	3,085.5	3,029.7	2,998.1	9.5	9.7	89.27	336.8	215.8	358.2	341.9	16.28	21.999	
3,135.0	3,120.1	3,063.6	3,031.0	9.6	9.8	89.77	342.1	222.0	366.5	350.0	16.46	22.258	
3,200.0	3,184.4	3,126.5	3,092.0	9.9	10.1	90.65	352.1	233.5	381.9	365.1	16.80	22.725	
3,230.0	3,214.1	3,155.5	3,120.2	10.0	10.2	91.04	356.7	238.9	389.0	372.0	16.96	22.934	
3,300.0	3,283.3	3,223.2	3,185.9	10.3	10.5	91.88	367.4	251.3	405.7	388.4	17.33	23.408	
3,325.0	3,308.1	3,247.4	3,209.3	10.4	10.6	92.16	371.2	255.7	411.7	394.2	17.47	23.572	
3,400.0	3,382.2	3,320.0	3,279.8	10.7	10.9	92.97	382.7	269.0	429.7	411.9	17.87	24.051	
3,420.0	3,402.0	3,339.4	3,298.5	10.7	11.0	93.17	385.8	272.5	434.6	416.6	17.98	24.174	
3,500.0	3,481.1	3,416.8	3,373.7	11.1	11.3	93.94	398.0	286.7	453.9	435.5	18.41	24.655	
3,515.0	3,496.0	3,431.3	3,387.7	11.1	11.4	94.08	400.3	289.4	457.5	439.0	18.49	24.742	
3,600.0	3,580.0	3,513.5	3,467.5	11.5	11.7	94.81	413.3	304.4	478.1	459.2	18.96	25.223	
3,610.0	3,589.9	3,523.2	3,476.9	11.5	11.8	94.90	414.9	306.2	480.6	461.6	19.01	25.277	
3,700.0	3,678.9	3,610.3	3,561.4	11.9	12.2	95.61	428.6	322.1	502.5	483.0	19.51	25.757	
3,705.0	3,683.9	3,615.1	3,566.1	11.9	12.2	95.64	429.4	323.0	503.7	484.2	19.54	25.783	
3,800.0	3,777.8	3,707.1	3,655.3	12.3	12.6	96.32	443.9	339.9	526.9	506.9	20.07	26.260	
3,895.0	3,871.8	3,799.0	3,744.5	12.6	13.0	96.95	458.5	356.7	550.2	529.6	20.60	26.712	
3,900.0	3,876.7	3,803.8	3,749.2	12.7	13.0	96.98	459.3	357.6	551.4	530.8	20.63	26.735	
3,990.0	3,965.8	3,890.9	3,833.7	13.0	13.4	97.52	473.0	373.5	573.5	552.4	21.13	27.138	
4,000.0	3,975.6	3,900.6	3,843.1	13.1	13.5	97.58	474.6	375.3	576.0	554.8	21.19	27.182	
4,085.0	4,059.7	3,982.8	3,922.9	13.4	13.8	98.05	487.6	390.4	596.9	575.3	21.67	27.542	
4,100.0	4,074.5	3,997.4	3,937.0	13.5	13.9	98.13	489.9	393.0	600.6	578.9	21.76	27.604	
4,127.7	4,101.9	4,024.2	3,963.0	13.6	14.0	98.27	494.1	397.9	607.4	585.5	21.90	27.739	
4,180.0	4,153.7	4,074.8	4,012.1	13.8	14.3	98.64	502.1	407.2	620.3	598.1	22.18	27.965	
4,200.0	4,173.5	4,094.2	4,030.9	13.9	14.3	98.77	505.2	410.7	625.2	602.9	22.29	28.048	
4,275.0	4,247.9	4,166.9	4,101.5	14.2	14.7	99.18	516.7	424.1	643.5	620.8	22.72	28.324	
4,300.0	4,272.7	4,191.1	4,125.0	14.3	14.8	99.30	520.5	428.5	649.6	626.7	22.86	28.411	
4,370.0	4,342.3	4,259.0	4,190.9	14.5	15.1	99.56	531.3	440.9	666.5	643.2	23.27	28.648	
4,400.0	4,372.1	4,288.1	4,219.1	14.6	15.2	99.65	535.9	446.3	673.7	650.3	23.44	28.744	
4,465.0	4,436.8	4,351.3	4,280.4	14.9	15.5	99.80	545.9	457.8	689.2	665.4	23.81	28.946	
4,500.0	4,471.7	4,385.3	4,313.4	15.0	15.7	99.85	551.2	464.0	697.6	673.5	24.01	29.049	
4,560.0	4,531.5	4,443.6	4,369.9	15.2	15.9	99.90	560.5	474.7	711.7	687.4	24.36	29.221	
4,600.0	4,571.4	4,482.4	4,407.6	15.4	16.1	99.91	566.6	481.8	721.1	696.5	24.59	29.329	
4,655.0	4,626.3	4,535.9	4,459.5	15.6	16.4	99.88	575.1	491.6	733.9	709.0	24.90	29.474	
4,700.0	4,671.2	4,579.6	4,501.9	15.7	16.6	99.83	582.0	499.6	744.4	719.2	25.16	29.587	
4,750.0	4,721.2	4,628.2	4,549.1	15.9	16.8	99.76	589.7	508.5	755.9	730.5	25.44	29.709	
4,800.0	4,771.1	4,676.8	4,596.2	16.0	17.0	99.65	597.4	517.4	767.4	741.6	25.73	29.824	
4,845.0	4,816.1	4,720.5	4,638.6	16.2	17.2	99.53	604.3	525.4	777.6	751.7	25.98	29.931	
4,900.0	4,871.1	4,780.2	4,696.6	16.3	17.5	99.32	613.6	536.3	790.1	763.8	26.32	30.017	

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	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: Reference		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9292-r.5 MWD+IFR1+MS						Rule Assigned:				Offset Well Error: 3.0 usft		
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		
4,940.0	4,911.1	4,832.7	4,747.7	16.4	17.7	99.12	621.4	545.2	798.5	771.9	26.62	29.998		
4,977.9	4,949.0	4,882.8	4,796.7	16.4	18.0	71.09	628.2	553.1	805.8	778.9	26.90	29.953		
5,000.0	4,971.1	4,912.2	4,825.6	16.4	18.1	70.94	631.9	557.4	809.8	782.7	27.05	29.932		
5,035.0	5,006.1	4,959.0	4,871.6	16.5	18.3	70.71	637.4	563.8	815.7	788.4	27.31	29.869		
5,100.0	5,071.1	5,046.6	4,958.1	16.5	18.7	70.36	646.4	574.2	825.2	797.5	27.76	29.728		
5,130.0	5,101.1	5,087.3	4,998.4	16.5	18.9	70.22	650.0	578.4	829.0	801.1	27.96	29.653		
5,200.0	5,171.1	5,182.8	5,093.4	16.6	19.3	69.96	657.0	586.5	836.3	807.9	28.38	29.464		
5,225.0	5,196.1	5,217.1	5,127.5	16.6	19.5	69.88	659.0	588.8	838.4	809.9	28.53	29.386		
5,300.0	5,271.1	5,320.3	5,230.5	16.6	19.9	69.72	663.4	593.9	843.0	814.1	28.90	29.168		
5,320.0	5,291.1	5,347.9	5,258.0	16.6	19.9	69.69	664.2	594.8	843.8	814.8	28.99	29.110		
5,400.0	5,371.1	5,458.4	5,368.5	16.7	20.2	69.64	665.5	596.3	845.2	816.0	29.20	28.944		
5,405.1	5,376.2	5,465.4	5,375.5	16.7	20.2	69.64	665.5	596.3	845.2	816.0	29.21	28.937		
5,415.0	5,386.1	5,472.7	5,382.8	16.7	20.2	69.64	665.5	596.3	845.2	816.0	29.22	28.927		
5,500.0	5,471.1	5,557.7	5,467.8	16.7	20.2	69.64	665.5	596.3	845.2	815.9	29.33	28.817		
5,510.0	5,481.1	5,567.7	5,477.8	16.7	20.2	69.64	665.5	596.3	845.2	815.8	29.34	28.804		
5,600.0	5,571.1	5,657.7	5,567.8	16.8	20.3	69.64	665.5	596.3	845.2	815.7	29.47	28.681		
5,605.0	5,576.1	5,662.7	5,572.8	16.8	20.3	69.64	665.5	596.3	845.2	815.7	29.47	28.675		
5,700.0	5,671.1	5,757.7	5,667.8	16.8	20.3	69.64	665.5	596.3	845.2	815.6	29.61	28.547		
5,795.0	5,766.1	5,852.7	5,762.8	16.9	20.4	69.64	665.5	596.3	845.2	815.4	29.74	28.420		
5,800.0	5,771.1	5,857.7	5,767.8	16.9	20.4	69.64	665.5	596.3	845.2	815.4	29.75	28.414		
5,890.0	5,861.1	5,947.7	5,857.8	17.0	20.4	69.64	665.5	596.3	845.2	815.3	29.87	28.295		
5,900.0	5,871.1	5,957.7	5,867.8	17.0	20.4	69.64	665.5	596.3	845.2	815.3	29.88	28.282		
5,985.0	5,956.1	6,042.7	5,952.8	17.0	20.5	69.64	665.5	596.3	845.2	815.2	30.00	28.170		
6,000.0	5,971.1	6,057.7	5,967.8	17.0	20.5	69.64	665.5	596.3	845.2	815.2	30.02	28.151		
6,080.0	6,051.1	6,137.7	6,047.8	17.1	20.5	69.64	665.5	596.3	845.2	815.0	30.13	28.047		
6,100.0	6,071.1	6,157.7	6,067.8	17.1	20.5	69.64	665.5	596.3	845.2	815.0	30.16	28.021		
6,175.0	6,146.1	6,232.7	6,142.8	17.1	20.5	69.64	665.5	596.3	845.2	814.9	30.27	27.924		
6,200.0	6,171.1	6,257.7	6,167.8	17.1	20.6	69.64	665.5	596.3	845.2	814.9	30.30	27.892		
6,270.0	6,241.1	6,327.7	6,237.8	17.2	20.6	69.64	665.5	596.3	845.2	814.8	30.40	27.803		
6,300.0	6,271.1	6,357.7	6,267.8	17.2	20.6	69.64	665.5	596.3	845.2	814.7	30.44	27.765		
6,365.0	6,336.1	6,422.7	6,332.8	17.2	20.6	69.64	665.5	596.3	845.2	814.7	30.53	27.683		
6,400.0	6,371.1	6,457.7	6,367.8	17.3	20.6	69.64	665.5	596.3	845.2	814.6	30.58	27.639		
6,460.0	6,431.1	6,517.7	6,427.8	17.3	20.7	69.64	665.5	596.3	845.2	814.5	30.66	27.563		
6,500.0	6,471.1	6,557.7	6,467.8	17.3	20.7	69.64	665.5	596.3	845.2	814.5	30.72	27.513		
6,555.0	6,526.1	6,612.7	6,522.8	17.3	20.7	69.64	665.5	596.3	845.2	814.4	30.80	27.445		
6,600.0	6,571.1	6,657.7	6,567.8	17.4	20.7	69.64	665.5	596.3	845.2	814.3	30.86	27.389		
6,650.0	6,621.1	6,707.7	6,617.8	17.4	20.8	69.64	665.5	596.3	845.2	814.3	30.93	27.328		
6,700.0	6,671.1	6,757.7	6,667.8	17.4	20.8	69.64	665.5	596.3	845.2	814.2	31.00	27.266		
6,745.0	6,716.1	6,802.7	6,712.8	17.5	20.8	69.64	665.5	596.3	845.2	814.1	31.06	27.211		
6,800.0	6,771.1	6,857.7	6,767.8	17.5	20.8	69.64	665.5	596.3	845.2	814.0	31.14	27.144		
6,840.0	6,811.1	6,897.7	6,807.8	17.5	20.9	69.64	665.5	596.3	845.2	814.0	31.19	27.096		
6,900.0	6,871.1	6,957.7	6,867.8	17.6	20.9	69.64	665.5	596.3	845.2	813.9	31.28	27.023		
6,935.0	6,906.1	6,992.7	6,902.8	17.6	20.9	69.64	665.5	596.3	845.2	813.9	31.33	26.981		
7,000.0	6,971.1	7,057.7	6,967.8	17.6	20.9	69.64	665.5	596.3	845.2	813.8	31.42	26.903		
7,030.0	7,001.1	7,087.7	6,997.8	17.6	20.9	69.64	665.5	596.3	845.2	813.7	31.46	26.867		
7,100.0	7,071.1	7,157.7	7,067.8	17.7	21.0	69.64	665.5	596.3	845.2	813.6	31.56	26.784		
7,125.0	7,096.1	7,182.7	7,092.8	17.7	21.0	69.64	665.5	596.3	845.2	813.6	31.59	26.754		
7,200.0	7,171.1	7,257.7	7,167.8	17.7	21.0	69.64	665.5	596.3	845.2	813.5	31.70	26.666		
7,220.0	7,191.1	7,277.7	7,187.8	17.7	21.0	69.64	665.5	596.3	845.2	813.5	31.72	26.643		
7,300.0	7,271.1	7,357.7	7,267.8	17.8	21.1	69.64	665.5	596.3	845.2	813.3	31.83	26.549		
7,315.0	7,286.1	7,372.7	7,282.8	17.8	21.1	69.64	665.5	596.3	845.2	813.3	31.86	26.532		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #804H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9292-r.5 MWD+IFR1+MS							Rule Assigned:				Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre			Distance			Minimum Separation		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation Factor			
7,400.0	7,371.1	7,457.7	7,367.8	17.9	21.1	69.64	665.5	596.3	845.2	813.2	31.97	26.433		
7,410.0	7,381.1	7,467.7	7,377.8	17.9	21.1	69.64	665.5	596.3	845.2	813.2	31.99	26.421		
7,500.0	7,471.1	7,557.7	7,467.8	17.9	21.2	69.64	665.5	596.3	845.2	813.1	32.11	26.318		
7,505.0	7,476.1	7,562.7	7,472.8	17.9	21.2	69.64	665.5	596.3	845.2	813.1	32.12	26.312		
7,600.0	7,571.1	7,657.7	7,567.8	18.0	21.2	69.64	665.5	596.3	845.2	812.9	32.25	26.204		
7,695.0	7,666.1	7,752.7	7,662.8	18.0	21.3	69.64	665.5	596.3	845.2	812.8	32.39	26.096		
7,700.0	7,671.1	7,757.7	7,667.8	18.0	21.3	69.64	665.5	596.3	845.2	812.8	32.39	26.090		
7,790.0	7,761.1	7,847.7	7,757.8	18.1	21.3	69.64	665.5	596.3	845.2	812.7	32.52	25.989		
7,800.0	7,771.1	7,857.7	7,767.8	18.1	21.3	69.64	665.5	596.3	845.2	812.6	32.53	25.978		
7,885.0	7,856.1	7,942.7	7,852.8	18.2	21.4	69.64	665.5	596.3	845.2	812.5	32.65	25.883		
7,900.0	7,871.1	7,957.7	7,867.8	18.2	21.4	69.64	665.5	596.3	845.2	812.5	32.67	25.866		
7,980.0	7,951.1	8,037.7	7,947.8	18.2	21.4	69.64	665.5	596.3	845.2	812.4	32.79	25.778		
8,000.0	7,971.1	8,057.7	7,967.8	18.2	21.4	69.64	665.5	596.3	845.2	812.4	32.82	25.756		
8,075.0	8,046.1	8,132.7	8,042.8	18.3	21.5	69.64	665.5	596.3	845.2	812.3	32.92	25.673		
8,100.0	8,071.1	8,157.7	8,067.8	18.3	21.5	69.64	665.5	596.3	845.2	812.2	32.96	25.646		
8,170.0	8,141.1	8,227.7	8,137.8	18.3	21.5	69.64	665.5	596.3	845.2	812.1	33.05	25.570		
8,200.0	8,171.1	8,257.7	8,167.8	18.3	21.5	69.64	665.5	596.3	845.2	812.1	33.10	25.537		
8,265.0	8,236.1	8,322.7	8,232.8	18.4	21.5	69.64	665.5	596.3	845.2	812.0	33.19	25.467		
8,300.0	8,271.1	8,357.7	8,267.8	18.4	21.6	69.64	665.5	596.3	845.2	811.9	33.24	25.429		
8,360.0	8,331.1	8,417.7	8,327.8	18.4	21.6	69.64	665.5	596.3	845.2	811.9	33.31	25.371		
8,402.9	8,374.0	8,460.6	8,370.7	18.5	21.6	69.64	665.5	596.3	845.2	811.8	33.37	25.329		
8,450.0	8,421.1	8,507.6	8,417.8	18.5	21.6	-110.92	665.5	596.3	845.9	812.5	33.42	25.314		
8,455.0	8,426.0	8,512.6	8,422.7	18.5	21.6	-110.94	665.5	596.3	846.0	812.6	33.42	25.314		
8,500.0	8,470.7	8,557.2	8,467.4	18.6	21.7	-111.10	665.5	596.3	848.1	814.7	33.48	25.334		
8,550.0	8,519.5	8,606.1	8,516.2	18.6	21.7	-111.39	665.5	596.3	852.0	818.5	33.55	25.394		
8,600.0	8,567.3	8,653.8	8,564.0	18.7	21.7	-111.74	665.5	596.3	857.7	824.1	33.64	25.496		
8,645.0	8,609.0	8,695.5	8,605.7	18.7	21.7	-112.09	665.5	596.3	864.4	830.7	33.73	25.625		
8,650.0	8,613.5	8,700.1	8,610.2	18.7	21.7	-112.13	665.5	596.3	865.3	831.5	33.74	25.642		
8,700.0	8,658.0	8,744.5	8,654.7	18.8	21.8	-112.48	665.5	596.3	874.8	841.0	33.86	25.835		
8,740.0	8,692.0	8,778.6	8,688.7	18.9	21.8	-112.71	665.5	596.3	884.1	850.1	33.97	26.025		
8,750.0	8,700.3	8,786.8	8,697.0	18.9	21.8	-112.76	665.5	596.3	886.6	852.6	34.00	26.078		
8,800.0	8,740.1	8,826.6	8,736.8	18.9	21.8	-112.88	665.5	596.3	900.8	866.6	34.15	26.376		
8,835.0	8,766.3	8,852.9	8,763.0	19.0	21.8	-112.84	665.5	596.3	912.1	877.9	34.27	26.617		
8,850.0	8,777.1	8,863.7	8,773.8	19.0	21.8	-112.78	665.5	596.3	917.4	883.1	34.32	26.730		
8,900.0	8,811.1	8,897.6	8,807.8	19.0	21.8	-112.40	665.5	596.3	936.6	902.1	34.51	27.143		
8,930.0	8,829.9	8,916.4	8,826.6	19.1	21.8	-112.01	665.5	596.3	949.4	914.7	34.62	27.420		
8,950.0	8,841.7	8,928.3	8,838.4	19.1	21.9	-111.66	665.5	596.3	958.4	923.7	34.70	27.617		
9,000.0	8,868.8	8,955.3	8,865.5	19.2	21.9	-110.49	665.5	596.3	982.8	947.9	34.91	28.154		
9,025.0	8,880.9	8,967.5	8,877.6	19.2	21.9	-109.71	665.5	596.3	996.0	961.0	35.01	28.446		
9,050.0	8,892.1	8,978.6	8,888.8	19.2	21.9	-108.80	665.5	596.3	1,009.8	974.6	35.12	28.754		
9,100.0	8,911.4	8,998.0	8,908.1	19.3	21.9	-106.52	665.5	596.3	1,039.1	1,003.8	35.33	29.415		
9,120.0	8,918.0	9,004.6	8,914.7	19.3	21.9	-105.42	665.5	596.3	1,051.5	1,016.1	35.41	29.696		
9,150.0	8,926.7	9,013.3	8,923.4	19.3	21.9	-103.57	665.5	596.3	1,070.6	1,035.1	35.53	30.136		
9,200.0	8,937.8	9,024.3	8,934.5	19.3	21.9	-99.90	665.5	596.3	1,104.1	1,068.4	35.72	30.914		
9,215.0	8,940.3	9,026.8	8,937.0	19.3	21.9	-98.65	665.5	596.3	1,114.5	1,078.7	35.77	31.157		
9,250.0	8,944.6	9,031.1	8,941.3	19.4	21.9	-95.48	665.5	596.3	1,139.3	1,103.4	35.89	31.742		
9,302.1	8,947.0	10,491.6	9,775.2	19.4	23.1	-136.47	-207.1	588.6	1,146.8	1,112.0	34.75	33.003		
9,310.0	8,947.0	10,499.5	9,775.2	19.4	23.1	-136.47	-215.1	588.5	1,146.8	1,112.0	34.78	32.970		
9,400.0	8,947.1	10,589.5	9,775.2	19.4	23.2	-136.47	-305.1	587.7	1,146.7	1,111.5	35.20	32.581		
9,405.0	8,947.2	10,594.5	9,775.2	19.4	23.2	-136.47	-310.1	587.7	1,146.7	1,111.5	35.22	32.558		
9,500.0	8,947.3	10,689.5	9,775.3	19.5	23.3	-136.47	-405.1	586.8	1,146.6	1,110.9	35.71	32.106		

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #804H - OWB - PWP1													Offset Site Error: 0.0 usft				
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9292-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft				
Reference				Offset		Semi Major Axis			Offset Wellbore Centre		Rule Assigned:			Distance		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					
9,595.0	8,947.4	10,784.5	9,775.3	19.5	23.5	-136.46	-500.1	586.0	1,146.6	1,110.3	36.26	31.618					
9,600.0	8,947.4	10,789.5	9,775.3	19.5	23.5	-136.46	-505.1	585.9	1,146.6	1,110.3	36.29	31.593					
9,690.0	8,947.6	10,879.5	9,775.4	19.6	23.7	-136.46	-595.1	585.1	1,146.5	1,109.6	36.86	31.102					
9,700.0	8,947.6	10,889.5	9,775.4	19.6	23.7	-136.46	-605.1	585.0	1,146.5	1,109.6	36.93	31.048					
9,785.0	8,947.7	10,974.5	9,775.4	19.7	23.9	-136.46	-690.1	584.3	1,146.4	1,108.9	37.51	30.563					
9,800.0	8,947.7	10,989.5	9,775.4	19.7	23.9	-136.46	-705.1	584.2	1,146.4	1,108.8	37.61	30.479					
9,880.0	8,947.9	11,069.5	9,775.5	19.8	24.1	-136.45	-785.0	583.4	1,146.4	1,108.2	38.20	30.007					
9,900.0	8,947.9	11,089.5	9,775.5	19.8	24.1	-136.45	-805.0	583.3	1,146.4	1,108.0	38.35	29.890					
9,975.0	8,948.0	11,164.5	9,775.5	19.9	24.3	-136.45	-880.0	582.6	1,146.3	1,107.4	38.94	29.437					
10,000.0	8,948.0	11,189.5	9,775.5	19.9	24.3	-136.45	-905.0	582.4	1,146.3	1,107.2	39.14	29.289					
10,070.0	8,948.1	11,259.5	9,775.6	20.0	24.5	-136.45	-975.0	581.8	1,146.2	1,106.5	39.72	28.859					
10,100.0	8,948.2	11,289.5	9,775.6	20.1	24.6	-136.45	-1,005.0	581.5	1,146.2	1,106.3	39.97	28.678					
10,165.0	8,948.3	11,354.5	9,775.6	20.2	24.8	-136.44	-1,070.0	580.9	1,146.2	1,105.6	40.53	28.276					
10,200.0	8,948.3	11,389.5	9,775.6	20.2	24.9	-136.44	-1,105.0	580.6	1,146.2	1,105.3	40.84	28.064					
10,260.0	8,948.4	11,449.5	9,775.7	20.3	25.0	-136.44	-1,165.0	580.1	1,146.1	1,104.7	41.39	27.692					
10,300.0	8,948.5	11,489.5	9,775.7	20.4	25.2	-136.44	-1,205.0	579.7	1,146.1	1,104.3	41.75	27.449					
10,355.0	8,948.6	11,544.5	9,775.7	20.5	25.3	-136.44	-1,260.0	579.2	1,146.0	1,103.8	42.27	27.110					
10,400.0	8,948.6	11,589.5	9,775.7	20.6	25.5	-136.44	-1,305.0	578.8	1,146.0	1,103.3	42.70	26.838					
10,450.0	8,948.7	11,639.5	9,775.8	20.7	25.6	-136.43	-1,355.0	578.4	1,146.0	1,102.8	43.19	26.532					
10,500.0	8,948.8	11,689.5	9,775.8	20.9	25.8	-136.43	-1,405.0	578.0	1,145.9	1,102.3	43.68	26.232					
10,545.0	8,948.8	11,734.5	9,775.8	21.0	26.0	-136.43	-1,450.0	577.6	1,145.9	1,101.8	44.14	25.960					
10,600.0	8,948.9	11,789.5	9,775.8	21.1	26.2	-136.43	-1,505.0	577.1	1,145.9	1,101.2	44.70	25.635					
10,640.0	8,949.0	11,829.5	9,775.9	21.3	26.3	-136.43	-1,545.0	576.7	1,145.9	1,100.7	45.12	25.397					
10,700.0	8,949.1	11,889.5	9,775.9	21.4	26.5	-136.43	-1,605.0	576.2	1,145.8	1,100.1	45.75	25.047					
10,735.0	8,949.1	11,924.5	9,775.9	21.6	26.7	-136.42	-1,640.0	575.9	1,145.8	1,099.7	46.12	24.843					
10,800.0	8,949.2	11,989.5	9,775.9	21.8	26.9	-136.42	-1,705.0	575.3	1,145.7	1,098.9	46.82	24.472					
10,830.0	8,949.3	12,019.5	9,776.0	21.9	27.0	-136.42	-1,735.0	575.0	1,145.7	1,098.6	47.15	24.301					
10,900.0	8,949.4	12,089.5	9,776.0	22.2	27.3	-136.42	-1,805.0	574.4	1,145.7	1,097.8	47.92	23.909					
10,925.0	8,949.4	12,114.5	9,776.0	22.3	27.4	-136.42	-1,830.0	574.2	1,145.7	1,097.5	48.20	23.769					
11,000.0	8,949.5	12,189.5	9,776.1	22.6	27.7	-136.42	-1,905.0	573.5	1,145.6	1,096.6	49.04	23.359					
11,020.0	8,949.5	12,209.5	9,776.1	22.7	27.8	-136.42	-1,925.0	573.3	1,145.6	1,096.3	49.27	23.251					
11,100.0	8,949.7	12,289.5	9,776.1	23.0	28.2	-136.41	-2,005.0	572.6	1,145.5	1,095.4	50.19	22.825					
11,115.0	8,949.7	12,304.5	9,776.1	23.1	28.2	-136.41	-2,020.0	572.5	1,145.5	1,095.2	50.36	22.745					
11,200.0	8,949.8	12,389.5	9,776.2	23.5	28.6	-136.41	-2,105.0	571.8	1,145.5	1,094.1	51.36	22.304					
11,210.0	8,949.8	12,399.5	9,776.2	23.6	28.7	-136.41	-2,115.0	571.7	1,145.5	1,094.0	51.47	22.253					
11,300.0	8,950.0	12,489.5	9,776.2	24.0	29.1	-136.41	-2,205.0	570.9	1,145.4	1,092.9	52.54	21.799					
11,305.0	8,950.0	12,494.5	9,776.2	24.1	29.1	-136.41	-2,210.0	570.8	1,145.4	1,092.8	52.60	21.774					
11,400.0	8,950.1	12,589.5	9,776.3	24.6	29.6	-136.40	-2,305.0	570.0	1,145.3	1,091.6	53.75	21.309					
11,495.0	8,950.2	12,684.5	9,776.3	25.1	30.1	-136.40	-2,400.0	569.1	1,145.3	1,090.4	54.91	20.857					
11,500.0	8,950.3	12,689.5	9,776.3	25.1	30.1	-136.40	-2,405.0	569.1	1,145.3	1,090.3	54.97	20.833					
11,590.0	8,950.4	12,779.5	9,776.4	25.6	30.5	-136.40	-2,495.0	568.3	1,145.2	1,089.1	56.09	20.418					
11,600.0	8,950.4	12,789.5	9,776.4	25.7	30.6	-136.40	-2,505.0	568.2	1,145.2	1,089.0	56.21	20.373					
11,685.0	8,950.5	12,874.5	9,776.4	26.2	31.0	-136.39	-2,590.0	567.5	1,145.1	1,087.9	57.28	19.993					
11,700.0	8,950.5	12,889.5	9,776.4	26.3	31.1	-136.39	-2,605.0	567.3	1,145.1	1,087.7	57.47	19.927					
11,780.0	8,950.7	12,969.5	9,776.5	26.7	31.6	-136.39	-2,685.0	566.6	1,145.1	1,086.6	58.48	19.581					
11,800.0	8,950.7	12,989.5	9,776.5	26.9	31.7	-136.39	-2,705.0	566.4	1,145.1	1,086.3	58.73	19.496					
11,875.0	8,950.8	13,064.5	9,776.5	27.3	32.1	-136.39	-2,780.0	565.8	1,145.0	1,085.3	59.69	19.181					
11,900.0	8,950.8	13,089.5	9,776.5	27.5	32.2	-136.39	-2,805.0	565.6	1,145.0	1,085.0	60.02	19.078					
11,970.0	8,950.9	13,159.5	9,776.6	27.9	32.6	-136.38	-2,875.0	564.9	1,145.0	1,084.0	60.92	18.794					
12,000.0	8,951.0	13,189.5	9,776.6	28.1	32.8	-136.38	-2,905.0	564.7	1,144.9	1,083.6	61.31	18.675					
12,065.0	8,951.1	13,254.5	9,776.6	28.5	33.1	-136.38	-2,970.0	564.1	1,144.9	1,082.7	62.16	18.419					

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #708H
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Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #804H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9292-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)		
12,100.0	8,951.1	13,289.5	9,776.6	28.7	33.3	-136.38	-3,005.0	563.8	1,144.9	1,082.3	62.61	18.284
12,160.0	8,951.2	13,349.5	9,776.7	29.1	33.7	-136.38	-3,065.0	563.2	1,144.8	1,081.4	63.40	18.056
12,200.0	8,951.3	13,389.5	9,776.7	29.4	33.9	-136.38	-3,105.0	562.9	1,144.8	1,080.9	63.93	17.907
12,255.0	8,951.4	13,444.5	9,776.7	29.7	34.2	-136.37	-3,160.0	562.4	1,144.8	1,080.1	64.66	17.704
12,300.0	8,951.4	13,489.5	9,776.7	30.0	34.5	-136.37	-3,205.0	562.0	1,144.7	1,079.5	65.26	17.542
12,350.0	8,951.5	13,539.5	9,776.8	30.3	34.8	-136.37	-3,255.0	561.6	1,144.7	1,078.8	65.92	17.364
12,400.0	8,951.6	13,589.5	9,776.8	30.7	35.1	-136.37	-3,304.9	561.1	1,144.7	1,078.1	66.59	17.189
12,445.0	8,951.7	13,634.5	9,776.8	31.0	35.4	-136.37	-3,349.9	560.7	1,144.6	1,077.4	67.20	17.034
12,500.0	8,951.7	13,689.5	9,776.8	31.3	35.7	-136.37	-3,404.9	560.2	1,144.6	1,076.7	67.94	16.848
12,540.0	8,951.8	13,729.5	9,776.9	31.6	36.0	-136.36	-3,444.9	559.9	1,144.6	1,076.1	68.48	16.714
12,600.0	8,951.9	13,789.5	9,776.9	32.0	36.3	-136.36	-3,504.9	559.4	1,144.5	1,075.2	69.29	16.518
12,635.0	8,951.9	13,824.5	9,776.9	32.2	36.5	-136.36	-3,539.9	559.0	1,144.5	1,074.7	69.77	16.405
12,700.0	8,952.0	13,889.5	9,776.9	32.7	36.9	-136.36	-3,604.9	558.5	1,144.5	1,073.8	70.65	16.199
12,730.0	8,952.1	13,919.5	9,777.0	32.9	37.1	-136.36	-3,634.9	558.2	1,144.4	1,073.4	71.06	16.105
12,800.0	8,952.2	13,989.5	9,777.0	33.3	37.6	-136.36	-3,704.9	557.6	1,144.4	1,072.4	72.02	15.890
12,825.0	8,952.2	14,014.5	9,777.0	33.5	37.7	-136.35	-3,729.9	557.4	1,144.4	1,072.0	72.36	15.814
12,900.0	8,952.3	14,089.5	9,777.1	34.0	38.2	-136.35	-3,804.9	556.7	1,144.3	1,070.9	73.40	15.591
12,920.0	8,952.4	14,109.5	9,777.1	34.1	38.3	-136.35	-3,824.9	556.5	1,144.3	1,070.6	73.67	15.532
13,000.0	8,952.5	14,189.5	9,777.1	34.7	38.8	-136.35	-3,904.9	555.8	1,144.3	1,069.5	74.78	15.302
13,015.0	8,952.5	14,204.5	9,777.1	34.8	38.9	-136.35	-3,919.9	555.7	1,144.2	1,069.3	74.99	15.259
13,100.0	8,952.6	14,289.5	9,777.2	35.4	39.5	-136.35	-4,004.9	554.9	1,144.2	1,068.0	76.17	15.022
13,110.0	8,952.6	14,299.5	9,777.2	35.5	39.5	-136.35	-4,014.9	554.8	1,144.2	1,067.9	76.31	14.994
13,200.0	8,952.8	14,389.5	9,777.2	36.1	40.1	-136.34	-4,104.9	554.0	1,144.1	1,066.6	77.56	14.751
13,205.0	8,952.8	14,394.5	9,777.2	36.1	40.1	-136.34	-4,109.9	554.0	1,144.1	1,066.5	77.63	14.738
13,300.0	8,952.9	14,489.5	9,777.3	36.8	40.8	-136.34	-4,204.9	553.1	1,144.1	1,065.1	78.96	14.488
13,395.0	8,953.1	14,584.5	9,777.3	37.4	41.4	-136.34	-4,299.9	552.3	1,144.0	1,063.7	80.30	14.246
13,400.0	8,953.1	14,589.5	9,777.3	37.5	41.4	-136.34	-4,304.9	552.3	1,144.0	1,063.6	80.37	14.234
13,490.0	8,953.2	14,679.5	9,777.4	38.1	42.0	-136.33	-4,394.9	551.5	1,143.9	1,062.3	81.64	14.012
13,500.0	8,953.2	14,689.5	9,777.4	38.2	42.1	-136.33	-4,404.9	551.4	1,143.9	1,062.1	81.78	13.988
13,585.0	8,953.3	14,774.5	9,777.4	38.8	42.6	-136.33	-4,489.9	550.6	1,143.9	1,060.9	82.98	13.784
13,600.0	8,953.4	14,789.5	9,777.4	38.9	42.7	-136.33	-4,504.9	550.5	1,143.8	1,060.7	83.20	13.749
13,680.0	8,953.5	14,869.5	9,777.5	39.4	43.3	-136.33	-4,584.9	549.8	1,143.8	1,059.5	84.33	13.563
13,700.0	8,953.5	14,889.5	9,777.5	39.6	43.4	-136.33	-4,604.9	549.6	1,143.8	1,059.2	84.62	13.517
13,775.0	8,953.6	14,964.5	9,777.5	40.1	43.9	-136.32	-4,679.9	548.9	1,143.7	1,058.0	85.69	13.348
13,800.0	8,953.7	14,989.5	9,777.5	40.3	44.1	-136.32	-4,704.9	548.7	1,143.7	1,057.7	86.04	13.292
13,870.0	8,953.8	15,059.5	9,777.6	40.8	44.6	-136.32	-4,774.9	548.1	1,143.7	1,056.6	87.04	13.139
13,900.0	8,953.8	15,089.5	9,777.6	41.0	44.8	-136.32	-4,804.9	547.8	1,143.6	1,056.2	87.47	13.074
13,965.0	8,953.9	15,154.5	9,777.6	41.5	45.2	-136.32	-4,869.9	547.3	1,143.6	1,055.2	88.40	12.936
14,000.0	8,954.0	15,189.5	9,777.6	41.7	45.4	-136.32	-4,904.9	546.9	1,143.6	1,054.7	88.91	12.863
14,060.0	8,954.0	15,249.5	9,777.7	42.1	45.8	-136.31	-4,964.9	546.4	1,143.5	1,053.8	89.77	12.739
14,100.0	8,954.1	15,289.5	9,777.7	42.4	46.1	-136.31	-5,004.9	546.1	1,143.5	1,053.2	90.34	12.657
14,155.0	8,954.2	15,344.5	9,777.7	42.8	46.5	-136.31	-5,059.9	545.6	1,143.5	1,052.3	91.14	12.547
14,200.0	8,954.2	15,389.5	9,777.7	43.2	46.8	-136.31	-5,104.9	545.2	1,143.4	1,051.7	91.78	12.458
14,250.0	8,954.3	15,439.5	9,777.8	43.5	47.1	-136.31	-5,154.9	544.7	1,143.4	1,050.9	92.51	12.360
14,300.0	8,954.4	15,489.5	9,777.8	43.9	47.5	-136.31	-5,204.9	544.3	1,143.4	1,050.1	93.23	12.264
14,345.0	8,954.5	15,534.5	9,777.8	44.2	47.8	-136.30	-5,249.9	543.9	1,143.3	1,049.5	93.88	12.179
14,400.0	8,954.5	15,589.5	9,777.8	44.6	48.2	-136.30	-5,304.9	543.4	1,143.3	1,048.6	94.68	12.076
14,440.0	8,954.6	15,629.5	9,777.9	44.9	48.5	-136.30	-5,344.9	543.0	1,143.3	1,048.0	95.26	12.002
14,500.0	8,954.7	15,689.5	9,777.9	45.3	48.9	-136.30	-5,404.9	542.5	1,143.2	1,047.1	96.13	11.893
14,535.0	8,954.7	15,724.5	9,777.9	45.6	49.1	-136.30	-5,439.9	542.2	1,143.2	1,046.6	96.63	11.830
14,600.0	8,954.8	15,789.5	9,778.0	46.0	49.6	-136.30	-5,504.9	541.6	1,143.2	1,045.6	97.58	11.715

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	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:		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	
14,630.0	8,954.9	15,819.5	9,778.0	46.3	49.8	-136.29	-5,534.9	541.4	1,143.2	1,045.1	98.02	11.663
14,700.0	8,955.0	15,889.5	9,778.0	46.8	50.3	-136.29	-5,604.9	540.7	1,143.1	1,044.1	99.04	11.542
14,725.0	8,955.0	15,914.5	9,778.0	46.9	50.4	-136.29	-5,629.9	540.5	1,143.1	1,043.7	99.40	11.500
14,800.0	8,955.1	15,989.5	9,778.1	47.5	51.0	-136.29	-5,704.9	539.9	1,143.0	1,042.5	100.49	11.374
14,820.0	8,955.2	16,009.5	9,778.1	47.6	51.1	-136.29	-5,724.9	539.7	1,143.0	1,042.2	100.79	11.341
14,900.0	8,955.3	16,089.5	9,778.1	48.2	51.7	-136.29	-5,804.8	539.0	1,143.0	1,041.0	101.96	11.210
14,915.0	8,955.3	16,104.5	9,778.1	48.3	51.8	-136.28	-5,819.8	538.8	1,143.0	1,040.8	102.18	11.186
15,000.0	8,955.4	16,189.5	9,778.2	48.9	52.4	-136.28	-5,904.8	538.1	1,142.9	1,039.5	103.42	11.051
15,010.0	8,955.4	16,199.5	9,778.2	49.0	52.4	-136.28	-5,914.8	538.0	1,142.9	1,039.3	103.57	11.035
15,100.0	8,955.6	16,289.5	9,778.2	49.7	53.1	-136.28	-6,004.8	537.2	1,142.8	1,037.9	104.89	10.896
15,105.0	8,955.6	16,294.5	9,778.2	49.7	53.1	-136.28	-6,009.8	537.2	1,142.8	1,037.9	104.96	10.888
15,200.0	8,955.7	16,389.5	9,778.3	50.4	53.8	-136.28	-6,104.8	536.3	1,142.8	1,036.4	106.36	10.745
15,295.0	8,955.9	16,484.5	9,778.3	51.1	54.4	-136.27	-6,199.8	535.5	1,142.7	1,034.9	107.75	10.605
15,300.0	8,955.9	16,489.5	9,778.3	51.1	54.5	-136.27	-6,204.8	535.4	1,142.7	1,034.9	107.83	10.597
15,390.0	8,956.0	16,579.5	9,778.4	51.8	55.1	-136.27	-6,294.8	534.6	1,142.6	1,033.5	109.15	10.468
15,400.0	8,956.0	16,589.5	9,778.4	51.9	55.2	-136.27	-6,304.8	534.5	1,142.6	1,033.3	109.30	10.454
15,485.0	8,956.1	16,674.5	9,778.4	52.5	55.8	-136.27	-6,389.8	533.8	1,142.6	1,032.0	110.55	10.335
15,500.0	8,956.2	16,689.5	9,778.4	52.6	55.9	-136.27	-6,404.8	533.7	1,142.6	1,031.8	110.78	10.314
15,580.0	8,956.3	16,769.5	9,778.5	53.2	56.5	-136.26	-6,484.8	532.9	1,142.5	1,030.6	111.96	10.205
15,600.0	8,956.3	16,789.5	9,778.5	53.3	56.6	-136.26	-6,504.8	532.8	1,142.5	1,030.2	112.25	10.178
15,675.0	8,956.4	16,864.5	9,778.5	53.9	57.1	-136.26	-6,579.8	532.1	1,142.4	1,029.1	113.36	10.078
15,700.0	8,956.5	16,889.5	9,778.5	54.1	57.3	-136.26	-6,604.8	531.9	1,142.4	1,028.7	113.73	10.045
15,770.0	8,956.6	16,959.5	9,778.6	54.6	57.8	-136.26	-6,674.8	531.3	1,142.4	1,027.6	114.77	9.954
15,800.0	8,956.6	16,989.5	9,778.6	54.8	58.0	-136.26	-6,704.8	531.0	1,142.4	1,027.1	115.21	9.915
15,865.0	8,956.7	17,054.5	9,778.6	55.3	58.5	-136.25	-6,769.8	530.4	1,142.3	1,026.1	116.18	9.833
15,900.0	8,956.8	17,089.5	9,778.6	55.6	58.8	-136.25	-6,804.8	530.1	1,142.3	1,025.6	116.70	9.789
15,960.0	8,956.9	17,149.5	9,778.7	56.0	59.2	-136.25	-6,864.8	529.6	1,142.3	1,024.7	117.59	9.714
16,000.0	8,956.9	17,189.5	9,778.7	56.3	59.5	-136.25	-6,904.8	529.2	1,142.2	1,024.0	118.18	9.665
16,055.0	8,957.0	17,244.5	9,778.7	56.7	59.9	-136.25	-6,959.8	528.7	1,142.2	1,023.2	119.00	9.598
16,100.0	8,957.1	17,289.5	9,778.7	57.0	60.2	-136.25	-7,004.8	528.3	1,142.2	1,022.5	119.67	9.545
16,150.0	8,957.1	17,339.5	9,778.8	57.4	60.6	-136.24	-7,054.8	527.9	1,142.1	1,021.7	120.41	9.485
16,200.0	8,957.2	17,389.5	9,778.8	57.8	60.9	-136.24	-7,104.8	527.5	1,142.1	1,020.9	121.15	9.427
16,245.0	8,957.3	17,434.5	9,778.8	58.1	61.2	-136.24	-7,149.8	527.1	1,142.1	1,020.2	121.82	9.375
16,300.0	8,957.4	17,489.5	9,778.8	58.5	61.6	-136.24	-7,204.8	526.6	1,142.0	1,019.4	122.64	9.312
16,340.0	8,957.4	17,529.5	9,778.9	58.8	61.9	-136.24	-7,244.8	526.2	1,142.0	1,018.8	123.24	9.267
16,400.0	8,957.5	17,589.5	9,778.9	59.3	62.4	-136.23	-7,304.8	525.7	1,142.0	1,017.8	124.13	9.199
16,435.0	8,957.6	17,624.5	9,778.9	59.5	62.6	-136.23	-7,339.8	525.4	1,141.9	1,017.3	124.65	9.161
16,500.0	8,957.7	17,689.5	9,779.0	60.0	63.1	-136.23	-7,404.8	524.8	1,141.9	1,016.3	125.62	9.090
16,530.0	8,957.7	17,719.5	9,779.0	60.2	63.3	-136.23	-7,434.8	524.5	1,141.9	1,015.8	126.07	9.057
16,600.0	8,957.8	17,789.5	9,779.0	60.7	63.8	-136.23	-7,504.8	523.9	1,141.8	1,014.7	127.12	8.982
16,625.0	8,957.8	17,814.5	9,779.0	60.9	64.0	-136.23	-7,529.8	523.7	1,141.8	1,014.3	127.49	8.956
16,700.0	8,957.9	17,889.5	9,779.1	61.5	64.5	-136.22	-7,604.8	523.0	1,141.8	1,013.1	128.61	8.877
16,720.0	8,958.0	17,909.5	9,779.1	61.6	64.7	-136.22	-7,624.8	522.8	1,141.7	1,012.8	128.91	8.857
16,800.0	8,958.1	17,989.5	9,779.1	62.2	65.3	-136.22	-7,704.8	522.1	1,141.7	1,011.6	130.11	8.775
16,815.0	8,958.1	18,004.5	9,779.1	62.3	65.4	-136.22	-7,719.8	522.0	1,141.7	1,011.3	130.33	8.760
16,900.0	8,958.2	18,089.5	9,779.2	63.0	66.0	-136.22	-7,804.8	521.3	1,141.6	1,010.0	131.60	8.675
16,910.0	8,958.3	18,099.5	9,779.2	63.0	66.1	-136.22	-7,814.8	521.2	1,141.6	1,009.9	131.75	8.665
17,000.0	8,958.4	18,189.5	9,779.2	63.7	66.7	-136.21	-7,904.8	520.4	1,141.5	1,008.4	133.10	8.576
17,005.0	8,958.4	18,194.5	9,779.2	63.7	66.8	-136.21	-7,909.8	520.3	1,141.5	1,008.4	133.18	8.572
17,100.0	8,958.5	18,289.5	9,779.3	64.5	67.4	-136.21	-8,004.8	519.5	1,141.5	1,006.9	134.60	8.480
17,195.0	8,958.7	18,384.5	9,779.3	65.2	68.1	-136.21	-8,099.8	518.6	1,141.4	1,005.4	136.03	8.391

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #804H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9292-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum	Separation	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor
17,200.0	8,958.7	18,389.5	9,779.3	65.2	68.2	-136.21	-8,104.8	518.6	1,141.4	1,005.3	136.10	8.386
17,290.0	8,958.8	18,479.5	9,779.4	65.9	68.8	-136.20	-8,194.8	517.8	1,141.4	1,003.9	137.45	8.304
17,300.0	8,958.8	18,489.5	9,779.4	65.9	68.9	-136.20	-8,204.8	517.7	1,141.3	1,003.7	137.60	8.294
17,385.0	8,959.0	18,574.5	9,779.4	66.6	69.5	-136.20	-8,289.7	517.0	1,141.3	1,002.4	138.88	8.218
17,400.0	8,959.0	18,589.5	9,779.4	66.7	69.6	-136.20	-8,304.7	516.8	1,141.3	1,002.2	139.11	8.204
17,480.0	8,959.1	18,669.5	9,779.5	67.3	70.2	-136.20	-8,384.7	516.1	1,141.2	1,000.9	140.31	8.134
17,500.0	8,959.1	18,689.5	9,779.5	67.4	70.4	-136.20	-8,404.7	515.9	1,141.2	1,000.6	140.61	8.116
17,575.0	8,959.2	18,764.5	9,779.5	68.0	70.9	-136.20	-8,479.7	515.3	1,141.2	999.4	141.74	8.051
17,600.0	8,959.3	18,789.5	9,779.5	68.2	71.1	-136.19	-8,504.7	515.1	1,141.1	999.0	142.11	8.030
17,670.0	8,959.4	18,859.5	9,779.6	68.7	71.6	-136.19	-8,574.7	514.4	1,141.1	997.9	143.17	7.970
17,700.0	8,959.4	18,889.5	9,779.6	68.9	71.8	-136.19	-8,604.7	514.2	1,141.1	997.5	143.62	7.945
17,765.0	8,959.5	18,954.5	9,779.6	69.4	72.3	-136.19	-8,669.7	513.6	1,141.0	996.4	144.60	7.891
17,800.0	8,959.6	18,989.5	9,779.6	69.7	72.6	-136.19	-8,704.7	513.3	1,141.0	995.9	145.12	7.862
17,860.0	8,959.7	19,049.5	9,779.7	70.1	73.0	-136.19	-8,764.7	512.7	1,141.0	994.9	146.03	7.813
17,900.0	8,959.7	19,089.5	9,779.7	70.4	73.3	-136.18	-8,804.7	512.4	1,140.9	994.3	146.63	7.781
17,955.0	8,959.8	19,144.5	9,779.7	70.8	73.7	-136.18	-8,859.7	511.9	1,140.9	993.4	147.46	7.737
18,000.0	8,959.9	19,189.5	9,779.7	71.2	74.0	-136.18	-8,904.7	511.5	1,140.9	992.7	148.14	7.701
18,050.0	8,959.9	19,239.5	9,779.8	71.6	74.4	-136.18	-8,954.7	511.1	1,140.8	991.9	148.89	7.662
18,100.0	8,960.0	19,289.5	9,779.8	71.9	74.8	-136.18	-9,004.7	510.6	1,140.8	991.2	149.65	7.623
18,145.0	8,960.1	19,334.5	9,779.8	72.3	75.1	-136.18	-9,049.7	510.2	1,140.8	990.4	150.33	7.589
18,200.0	8,960.2	19,389.5	9,779.9	72.7	75.5	-136.17	-9,104.7	509.7	1,140.7	989.6	151.16	7.547
18,240.0	8,960.2	19,429.5	9,779.9	73.0	75.8	-136.17	-9,144.7	509.4	1,140.7	988.9	151.76	7.516
18,300.0	8,960.3	19,489.5	9,779.9	73.4	76.3	-136.17	-9,204.7	508.9	1,140.7	988.0	152.67	7.472
18,335.0	8,960.4	19,524.5	9,779.9	73.7	76.5	-136.17	-9,239.7	508.5	1,140.6	987.5	153.20	7.446
18,400.0	8,960.5	19,589.5	9,780.0	74.2	77.0	-136.17	-9,304.7	508.0	1,140.6	986.4	154.18	7.398
18,430.0	8,960.5	19,619.5	9,780.0	74.4	77.2	-136.17	-9,334.7	507.7	1,140.6	986.0	154.63	7.376
18,500.0	8,960.6	19,689.5	9,780.0	74.9	77.7	-136.16	-9,404.7	507.1	1,140.5	984.8	155.69	7.326
18,525.0	8,960.6	19,714.5	9,780.0	75.1	77.9	-136.16	-9,429.7	506.9	1,140.5	984.5	156.07	7.308
18,600.0	8,960.8	19,789.5	9,780.1	75.7	78.5	-136.16	-9,504.7	506.2	1,140.5	983.3	157.20	7.255
18,620.0	8,960.8	19,809.5	9,780.1	75.8	78.6	-136.16	-9,524.7	506.0	1,140.5	982.9	157.50	7.241
18,700.0	8,960.9	19,889.5	9,780.1	76.4	79.2	-136.16	-9,604.7	505.3	1,140.4	981.7	158.72	7.185
18,715.0	8,960.9	19,904.5	9,780.1	76.5	79.3	-136.16	-9,619.7	505.2	1,140.4	981.4	158.94	7.175
18,800.0	8,961.1	19,989.5	9,780.2	77.2	79.9	-136.15	-9,704.7	504.4	1,140.3	980.1	160.23	7.117
18,810.0	8,961.1	19,999.5	9,780.2	77.3	80.0	-136.15	-9,714.7	504.3	1,140.3	979.9	160.38	7.110
18,900.0	8,961.2	20,089.5	9,780.2	77.9	80.7	-136.15	-9,804.7	503.5	1,140.3	978.5	161.74	7.050
18,905.0	8,961.2	20,094.5	9,780.2	78.0	80.7	-136.15	-9,809.7	503.5	1,140.3	978.4	161.82	7.047
19,000.0	8,961.3	20,189.5	9,780.3	78.7	81.4	-136.15	-9,904.7	502.6	1,140.2	976.9	163.26	6.984
19,095.0	8,961.5	20,284.5	9,780.3	79.4	82.1	-136.14	-9,999.7	501.8	1,140.1	975.4	164.70	6.923
19,100.0	8,961.5	20,289.5	9,780.3	79.4	82.2	-136.14	-10,004.7	501.8	1,140.1	975.4	164.77	6.919
19,190.0	8,961.6	20,379.5	9,780.4	80.1	82.8	-136.14	-10,094.7	501.0	1,140.1	973.9	166.14	6.862
19,200.0	8,961.6	20,389.5	9,780.4	80.2	82.9	-136.14	-10,104.7	500.9	1,140.1	973.8	166.29	6.856
19,285.0	8,961.8	20,474.5	9,780.4	80.8	83.5	-136.14	-10,189.7	500.1	1,140.0	972.4	167.58	6.803
19,300.0	8,961.8	20,489.5	9,780.4	80.9	83.7	-136.14	-10,204.7	500.0	1,140.0	972.2	167.81	6.794
19,380.0	8,961.9	20,569.5	9,780.5	81.5	84.3	-136.13	-10,284.7	499.3	1,139.9	970.9	169.02	6.744
19,400.0	8,961.9	20,589.5	9,780.5	81.7	84.4	-136.13	-10,304.7	499.1	1,139.9	970.6	169.32	6.732
19,475.0	8,962.1	20,664.5	9,780.5	82.3	85.0	-136.13	-10,379.7	498.4	1,139.9	969.4	170.46	6.687
19,500.0	8,962.1	20,689.5	9,780.5	82.4	85.1	-136.13	-10,404.7	498.2	1,139.9	969.0	170.84	6.672
19,570.0	8,962.2	20,759.5	9,780.6	83.0	85.7	-136.13	-10,474.7	497.6	1,139.8	967.9	171.90	6.631
19,600.0	8,962.2	20,789.5	9,780.6	83.2	85.9	-136.13	-10,504.7	497.3	1,139.8	967.4	172.36	6.613
19,665.0	8,962.3	20,854.5	9,780.6	83.7	86.4	-136.12	-10,569.7	496.8	1,139.7	966.4	173.35	6.575
19,700.0	8,962.4	20,889.5	9,780.6	83.9	86.6	-136.12	-10,604.7	496.4	1,139.7	965.8	173.88	6.555

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #804H - OWB - PWP1													Offset Site Error: 0.0 usft		
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9292-r.5 MWD+IFR1+MS							Rule Assigned:				Offset Well Error: 3.0 usft		
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance						
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside				Between	Between	Minimum	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)		Centres (usft)	Ellipses (usft)	Separation (usft)	Factor		
19,760.0	8,962.5	20,949.5	9,780.7	84.4	87.1	-136.12	-10,664.7	495.9		1,139.7	964.9	174.79	6.520		
19,800.0	8,962.5	20,989.5	9,780.7	84.7	87.4	-136.12	-10,704.7	495.6		1,139.7	964.3	175.40	6.498		
19,855.0	8,962.6	21,044.5	9,780.7	85.1	87.8	-136.12	-10,759.7	495.1		1,139.6	963.4	176.23	6.467		
19,900.0	8,962.7	21,089.5	9,780.7	85.5	88.1	-136.12	-10,804.6	494.7		1,139.6	962.7	176.92	6.441		
19,950.0	8,962.8	21,139.5	9,780.8	85.8	88.5	-136.12	-10,854.6	494.2		1,139.6	961.9	177.68	6.414		
20,000.0	8,962.8	21,189.5	9,780.8	86.2	88.9	-136.11	-10,904.6	493.8		1,139.5	961.1	178.44	6.386		
20,045.0	8,962.9	21,234.5	9,780.8	86.5	89.2	-136.11	-10,949.6	493.4		1,139.5	960.4	179.12	6.362		
20,100.0	8,963.0	21,289.5	9,780.9	87.0	89.6	-136.11	-11,004.6	492.9		1,139.5	959.5	179.96	6.332		
20,140.0	8,963.0	21,329.5	9,780.9	87.3	89.9	-136.11	-11,044.6	492.5		1,139.4	958.9	180.57	6.310		
20,200.0	8,963.1	21,389.5	9,780.9	87.7	90.4	-136.11	-11,104.6	492.0		1,139.4	957.9	181.48	6.278		
20,235.0	8,963.2	21,424.5	9,780.9	88.0	90.6	-136.11	-11,139.6	491.7		1,139.4	957.4	182.01	6.260		
20,300.0	8,963.3	21,489.5	9,781.0	88.5	91.1	-136.10	-11,204.6	491.1		1,139.3	956.3	183.00	6.226		
20,330.0	8,963.3	21,519.5	9,781.0	88.7	91.3	-136.10	-11,234.6	490.9		1,139.3	955.8	183.46	6.210		
20,400.0	8,963.4	21,589.5	9,781.0	89.2	91.8	-136.10	-11,304.6	490.2		1,139.3	954.7	184.52	6.174		
20,425.0	8,963.5	21,614.5	9,781.0	89.4	92.0	-136.10	-11,329.6	490.0		1,139.2	954.3	184.90	6.161		
20,500.0	8,963.6	21,689.5	9,781.1	90.0	92.6	-136.10	-11,404.6	489.4		1,139.2	953.1	186.05	6.123		
20,520.0	8,963.6	21,709.5	9,781.1	90.1	92.7	-136.10	-11,424.6	489.2		1,139.2	952.8	186.35	6.113		
20,600.0	8,963.7	21,789.5	9,781.1	90.7	93.3	-136.09	-11,504.6	488.5		1,139.1	951.5	187.57	6.073		
20,615.0	8,963.7	21,804.5	9,781.1	90.8	93.5	-136.09	-11,519.6	488.3		1,139.1	951.3	187.80	6.066		
20,700.0	8,963.9	21,889.5	9,781.2	91.5	94.1	-136.09	-11,604.6	487.6		1,139.1	950.0	189.09	6.024		
20,710.0	8,963.9	21,899.5	9,781.2	91.6	94.2	-136.09	-11,614.6	487.5		1,139.0	949.8	189.24	6.019		
20,800.0	8,964.0	21,989.5	9,781.2	92.2	94.8	-136.09	-11,704.6	486.7		1,139.0	948.4	190.62	5.975		
20,805.0	8,964.0	21,994.5	9,781.2	92.3	94.9	-136.09	-11,709.6	486.7		1,139.0	948.3	190.69	5.973		
20,900.0	8,964.2	22,089.5	9,781.3	93.0	95.6	-136.08	-11,804.6	485.8		1,138.9	946.8	192.14	5.928		
20,995.0	8,964.3	22,184.5	9,781.3	93.7	96.3	-136.08	-11,899.6	485.0		1,138.9	945.3	193.59	5.883		
21,000.0	8,964.3	22,189.5	9,781.3	93.8	96.3	-136.08	-11,904.6	484.9		1,138.8	945.2	193.66	5.881		
21,090.0	8,964.4	22,279.5	9,781.4	94.4	97.0	-136.08	-11,994.6	484.1		1,138.8	943.8	195.04	5.839		
21,100.0	8,964.5	22,289.5	9,781.4	94.5	97.1	-136.08	-12,004.6	484.0		1,138.8	943.6	195.19	5.834		
21,185.0	8,964.6	22,374.5	9,781.4	95.2	97.7	-136.07	-12,089.6	483.3		1,138.7	942.2	196.49	5.795		
21,200.0	8,964.6	22,389.5	9,781.4	95.3	97.8	-136.07	-12,104.6	483.2		1,138.7	942.0	196.71	5.789		
21,280.0	8,964.7	22,469.5	9,781.5	95.9	98.4	-136.07	-12,184.6	482.4		1,138.7	940.7	197.93	5.753		
21,300.0	8,964.8	22,489.5	9,781.5	96.0	98.6	-136.07	-12,204.6	482.3		1,138.6	940.4	198.24	5.744		
21,375.0	8,964.9	22,564.5	9,781.5	96.6	99.1	-136.07	-12,279.6	481.6		1,138.6	939.2	199.38	5.711		
21,400.0	8,964.9	22,589.5	9,781.5	96.8	99.3	-136.07	-12,304.6	481.4		1,138.6	938.8	199.77	5.700		
21,470.0	8,965.0	22,659.5	9,781.6	97.3	99.8	-136.06	-12,374.6	480.8		1,138.5	937.7	200.83	5.669		
21,500.0	8,965.0	22,689.5	9,781.6	97.5	100.1	-136.06	-12,404.6	480.5		1,138.5	937.2	201.29	5.656		
21,565.0	8,965.1	22,754.5	9,781.6	98.0	100.6	-136.06	-12,469.6	479.9		1,138.5	936.2	202.28	5.628		
21,600.0	8,965.2	22,789.5	9,781.6	98.3	100.8	-136.06	-12,504.6	479.6		1,138.4	935.6	202.82	5.613		
21,660.0	8,965.3	22,849.5	9,781.7	98.7	101.3	-136.06	-12,564.6	479.1		1,138.4	934.7	203.73	5.588		
21,700.0	8,965.3	22,889.5	9,781.7	99.0	101.6	-136.06	-12,604.6	478.7		1,138.4	934.0	204.35	5.571		
21,755.0	8,965.4	22,944.5	9,781.7	99.5	102.0	-136.05	-12,659.6	478.2		1,138.3	933.2	205.19	5.548		
21,800.0	8,965.5	22,989.5	9,781.7	99.8	102.3	-136.05	-12,704.6	477.8		1,138.3	932.4	205.87	5.529		
21,850.0	8,965.6	23,039.5	9,781.8	100.2	102.7	-136.05	-12,754.6	477.4		1,138.3	931.6	206.64	5.509		
21,900.0	8,965.6	23,089.5	9,781.8	100.6	103.1	-136.05	-12,804.6	477.0		1,138.2	930.8	207.40	5.488		
21,945.0	8,965.7	23,134.5	9,781.8	100.9	103.4	-136.05	-12,849.6	476.6		1,138.2	930.1	208.09	5.470		
22,000.0	8,965.8	23,189.5	9,781.9	101.3	103.8	-136.05	-12,904.6	476.1		1,138.2	929.2	208.93	5.448		
22,040.0	8,965.8	23,229.5	9,781.9	101.6	104.1	-136.04	-12,944.6	475.7		1,138.1	928.6	209.54	5.432		
22,100.0	8,965.9	23,289.5	9,781.9	102.1	104.6	-136.04	-13,004.6	475.2		1,138.1	927.7	210.46	5.408		
22,135.0	8,966.0	23,324.5	9,781.9	102.3	104.8	-136.04	-13,039.6	474.9		1,138.1	927.1	210.99	5.394		
22,200.0	8,966.1	23,389.5	9,782.0	102.8	105.3	-136.04	-13,104.6	474.3		1,138.0	926.1	211.98	5.369		
22,230.0	8,966.1	23,419.5	9,782.0	103.1	105.5	-136.04	-13,134.6	474.0		1,138.0	925.6	212.44	5.357		

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	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	Vertical	Offset	Vertical	Semi Major Axis	Offset	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning
Measured	Depth	Depth	Depth	Reference	Offset	Toolface	+N/-S	+E/-W	Between	Between	Separation	Factor	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	Centres	Ellipses	(usft)		
22,300.0	8,966.2	23,489.5	9,782.0	103.6	106.1	-136.04	-13,204.6	473.4	1,138.0	924.5	213.51	5.330	
22,325.0	8,966.3	23,514.5	9,782.0	103.8	106.3	-136.03	-13,229.6	473.2	1,138.0	924.1	213.89	5.320	
22,400.0	8,966.4	23,589.5	9,782.1	104.3	106.8	-136.03	-13,304.5	472.5	1,137.9	922.9	215.04	5.292	
22,420.0	8,966.4	23,609.5	9,782.1	104.5	107.0	-136.03	-13,324.5	472.3	1,137.9	922.5	215.35	5.284	
22,500.0	8,966.5	23,689.5	9,782.1	105.1	107.6	-136.03	-13,404.5	471.6	1,137.8	921.3	216.57	5.254	
22,515.0	8,966.6	23,704.5	9,782.1	105.2	107.7	-136.03	-13,419.5	471.5	1,137.8	921.0	216.80	5.248	
22,600.0	8,966.7	23,789.5	9,782.2	105.9	108.3	-136.03	-13,504.5	470.8	1,137.8	919.7	218.10	5.217	
22,610.0	8,966.7	23,799.5	9,782.2	105.9	108.4	-136.03	-13,514.5	470.7	1,137.8	919.5	218.25	5.213	
22,700.0	8,966.8	23,889.5	9,782.2	106.6	109.1	-136.02	-13,604.5	469.9	1,137.7	918.1	219.63	5.180	
22,705.0	8,966.8	23,894.5	9,782.2	106.6	109.1	-136.02	-13,609.5	469.8	1,137.7	918.0	219.71	5.178	
22,800.0	8,967.0	23,989.5	9,782.3	107.4	109.8	-136.02	-13,704.5	469.0	1,137.6	916.5	221.16	5.144	
22,895.0	8,967.1	24,084.5	9,782.3	108.1	110.5	-136.02	-13,799.5	468.1	1,137.6	915.0	222.61	5.110	
22,900.0	8,967.1	24,089.5	9,782.3	108.1	110.6	-136.02	-13,804.5	468.1	1,137.6	914.9	222.69	5.108	
22,990.0	8,967.3	24,179.5	9,782.4	108.8	111.3	-136.01	-13,894.5	467.3	1,137.5	913.4	224.07	5.077	
23,000.0	8,967.3	24,189.5	9,782.4	108.9	111.3	-136.01	-13,904.5	467.2	1,137.5	913.3	224.22	5.073	
23,085.0	8,967.4	24,274.5	9,782.4	109.5	112.0	-136.01	-13,989.5	466.5	1,137.4	911.9	225.52	5.044	
23,100.0	8,967.4	24,289.5	9,782.4	109.6	112.1	-136.01	-14,004.5	466.3	1,137.4	911.7	225.75	5.038	
23,180.0	8,967.5	24,369.5	9,782.5	110.2	112.7	-136.01	-14,084.5	465.6	1,137.4	910.4	226.97	5.011	
23,200.0	8,967.6	24,389.5	9,782.5	110.4	112.8	-136.01	-14,104.5	465.4	1,137.4	910.1	227.28	5.004	
23,275.0	8,967.7	24,464.5	9,782.5	111.0	113.4	-136.00	-14,179.5	464.8	1,137.3	908.9	228.43	4.979	
23,300.0	8,967.7	24,489.5	9,782.5	111.2	113.6	-136.00	-14,204.5	464.6	1,137.3	908.5	228.81	4.970	
23,370.0	8,967.8	24,559.5	9,782.6	111.7	114.1	-136.00	-14,274.5	463.9	1,137.3	907.4	229.88	4.947	
23,400.0	8,967.9	24,589.5	9,782.6	111.9	114.3	-136.00	-14,304.5	463.7	1,137.2	906.9	230.34	4.937	
23,465.0	8,968.0	24,654.5	9,782.6	112.4	114.8	-136.00	-14,369.5	463.1	1,137.2	905.8	231.34	4.916	
23,500.0	8,968.0	24,689.5	9,782.6	112.7	115.1	-135.99	-14,404.5	462.8	1,137.2	905.3	231.87	4.904	
23,560.0	8,968.1	24,749.5	9,782.7	113.1	115.6	-135.99	-14,464.5	462.2	1,137.1	904.3	232.79	4.885	
23,600.0	8,968.2	24,789.5	9,782.7	113.4	115.9	-135.99	-14,504.5	461.9	1,137.1	903.7	233.41	4.872	
23,655.0	8,968.2	24,844.5	9,782.7	113.8	116.3	-135.99	-14,559.5	461.4	1,137.1	902.8	234.25	4.854	
23,700.0	8,968.3	24,889.5	9,782.8	114.2	116.6	-135.99	-14,604.5	461.0	1,137.0	902.1	234.94	4.840	
23,750.0	8,968.4	24,939.5	9,782.8	114.6	117.0	-135.99	-14,654.5	460.6	1,137.0	901.3	235.70	4.824	
23,800.0	8,968.5	24,989.5	9,782.8	114.9	117.4	-135.98	-14,704.5	460.1	1,137.0	900.5	236.47	4.808	
23,845.0	8,968.5	25,034.5	9,782.8	115.3	117.7	-135.98	-14,749.5	459.7	1,136.9	899.8	237.16	4.794	
23,900.0	8,968.6	25,089.5	9,782.9	115.7	118.1	-135.98	-14,804.5	459.2	1,136.9	898.9	238.00	4.777	
23,940.0	8,968.7	25,129.5	9,782.9	116.0	118.4	-135.98	-14,844.5	458.9	1,136.9	898.3	238.62	4.764	
24,000.0	8,968.7	25,189.5	9,782.9	116.5	118.9	-135.98	-14,904.5	458.4	1,136.8	897.3	239.53	4.746	
24,035.0	8,968.8	25,224.5	9,782.9	116.7	119.1	-135.98	-14,939.5	458.0	1,136.8	896.7	240.07	4.735	
24,040.2	8,968.8	25,229.7	9,782.9	116.8	119.2	-135.98	-14,944.7	458.0	1,136.8	896.7	240.15	4.734	
24,100.0	8,968.9	25,289.5	9,783.0	117.2	119.6	-135.97	-15,004.5	457.5	1,136.8	895.7	241.06	4.716	
24,130.0	8,968.9	25,319.5	9,783.0	117.4	119.8	-135.97	-15,034.5	457.2	1,136.7	895.2	241.52	4.707	
24,170.2	8,969.0	25,359.2	9,783.0	117.8	120.1	-135.97	-15,074.1	456.8	1,136.7	894.6	242.13	4.695	
24,170.4	8,969.0	25,359.2	9,783.0	117.8	120.1	-135.97	-15,074.1	456.8	1,136.7	894.6	242.14	4.695	
24,170.7	8,969.0	25,359.2	9,783.0	117.8	120.1	-135.97	-15,074.1	456.8	1,136.7	894.6	242.14	4.694 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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	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)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	3.0	3.0	-11.50	149.4	-30.4	152.5					
95.0	95.0	91.6	91.6	3.0	3.0	-11.50	149.4	-30.4	152.5	146.4	6.04	25.263		
100.0	100.0	96.6	96.6	3.0	3.0	-11.50	149.4	-30.4	152.5	146.4	6.04	25.242		
190.0	190.0	186.6	186.6	3.1	3.1	-11.50	149.4	-30.4	152.5	146.2	6.25	24.384		
200.0	200.0	196.6	196.6	3.1	3.1	-11.50	149.4	-30.4	152.5	146.2	6.29	24.250		
285.0	285.0	281.6	281.6	3.3	3.2	-11.50	149.4	-30.4	152.5	146.0	6.50	23.470		
300.0	300.0	296.6	296.6	3.3	3.3	-11.50	149.4	-30.4	152.5	145.9	6.54	23.320		
380.0	380.0	376.6	376.6	3.4	3.4	-11.50	149.4	-30.4	152.5	145.7	6.73	22.644		
400.0	400.0	396.6	396.6	3.4	3.4	-11.50	149.4	-30.4	152.5	145.7	6.79	22.469		
475.0	475.0	471.6	471.6	3.5	3.5	-11.50	149.4	-30.4	152.5	145.5	6.97	21.883		
500.0	500.0	496.6	496.6	3.5	3.5	-11.50	149.4	-30.4	152.5	145.4	7.03	21.684		
570.0	570.0	566.6	566.6	3.6	3.6	-11.50	149.4	-30.4	152.5	145.3	7.20	21.176		
600.0	600.0	596.6	596.6	3.6	3.6	-11.50	149.4	-30.4	152.5	145.2	7.27	20.957		
665.0	665.0	661.6	661.6	3.7	3.7	-11.50	149.4	-30.4	152.5	145.0	7.43	20.518		
700.0	700.0	696.6	696.6	3.8	3.8	-11.50	149.4	-30.4	152.5	144.9	7.52	20.282		
760.0	760.0	756.6	756.6	3.8	3.8	-11.50	149.4	-30.4	152.5	144.8	7.66	19.902		
800.0	800.0	796.6	796.6	3.9	3.9	-11.50	149.4	-30.4	152.5	144.7	7.76	19.652		
855.0	855.0	851.6	851.6	4.0	3.9	-11.50	149.4	-30.4	152.5	144.6	7.89	19.326		
900.0	900.0	896.6	896.6	4.0	4.0	-11.50	149.4	-30.4	152.5	144.5	8.00	19.063		
950.0	950.0	946.6	946.6	4.1	4.1	-11.50	149.4	-30.4	152.5	144.3	8.12	18.785		
1,000.0	1,000.0	996.6	996.6	4.1	4.1	-11.50	149.4	-30.4	152.5	144.2	8.24	18.511		
1,045.0	1,045.0	1,041.6	1,041.6	4.2	4.2	-11.50	149.4	-30.4	152.5	144.1	8.34	18.275		
1,100.0	1,100.0	1,096.6	1,096.6	4.2	4.2	-11.50	149.4	-30.4	152.5	144.0	8.47	17.992		
1,140.0	1,140.0	1,136.6	1,136.6	4.3	4.3	-11.50	149.4	-30.4	152.5	143.9	8.57	17.794		
1,200.0	1,200.0	1,196.6	1,196.6	4.4	4.4	-11.50	149.4	-30.4	152.5	143.8	8.71	17.503		
1,235.0	1,235.0	1,231.6	1,231.6	4.4	4.4	-11.50	149.4	-30.4	152.5	143.7	8.79	17.340		
1,300.0	1,300.0	1,296.6	1,296.6	4.5	4.5	-11.50	149.4	-30.4	152.5	143.5	8.95	17.042		
1,330.0	1,330.0	1,326.6	1,326.6	4.5	4.5	-11.50	149.4	-30.4	152.5	143.4	9.02	16.910		
1,400.0	1,400.0	1,396.6	1,396.6	4.6	4.6	-11.50	149.4	-30.4	152.5	143.3	9.18	16.606		
1,425.0	1,425.0	1,421.6	1,421.6	4.6	4.6	-11.50	149.4	-30.4	152.5	143.2	9.24	16.502		
1,500.0	1,500.0	1,496.6	1,496.6	4.7	4.7	-11.50	149.4	-30.4	152.5	143.0	9.42	16.193		
1,520.0	1,520.0	1,515.8	1,515.8	4.8	4.7	16.33	149.4	-30.4	152.4	143.0	9.48	16.075		
1,600.0	1,600.0	1,591.9	1,591.9	4.9	4.9	16.36	150.7	-31.1	152.3	142.5	9.78	15.563		
1,615.0	1,615.0	1,606.2	1,606.1	4.9	4.9	16.36	151.2	-31.3	152.2	142.4	9.85	15.450		
1,700.0	1,699.8	1,687.0	1,686.9	5.2	5.1	16.42	154.8	-33.2	152.0	141.7	10.27	14.794		
1,710.0	1,709.8	1,696.5	1,696.4	5.2	5.2	16.43	155.4	-33.4	151.9	141.6	10.32	14.719		
1,800.0	1,799.5	1,782.2	1,781.7	5.4	5.4	16.53	161.8	-36.7	151.5	140.7	10.78	14.052		
1,805.0	1,804.4	1,786.9	1,786.4	5.4	5.4	16.54	162.2	-36.9	151.4	140.6	10.81	14.015		
1,900.0	1,898.7	1,877.3	1,876.2	5.7	5.7	16.68	171.5	-41.6	150.9	139.5	11.31	13.333		
1,925.1	1,923.5	1,900.0	1,898.7	5.8	5.7	16.72	174.3	-43.0	150.7	139.3	11.40	13.222		
1,937.1	1,935.4	1,912.6	1,911.2	5.8	5.8	16.74	175.9	-43.8	150.6	139.1	11.46	13.140		
1,947.9	1,946.1	1,922.9	1,921.4	5.8	5.8	16.75	177.2	-44.5	150.6	139.1	11.51	13.082 CC, ES		
1,995.0	1,992.7	1,967.7	1,965.7	5.9	5.9	16.76	183.4	-47.6	150.9	139.2	11.72	12.874		
2,000.0	1,997.6	1,972.5	1,970.4	5.9	6.0	16.76	184.1	-47.9	151.0	139.3	11.75	12.855		
2,090.0	2,086.6	2,058.1	2,054.5	6.1	6.2	16.56	197.8	-54.9	153.8	141.6	12.22	12.586		
2,100.0	2,096.5	2,067.6	2,063.9	6.2	6.3	16.52	199.4	-55.7	154.3	142.0	12.27	12.570		
2,185.0	2,180.6	2,149.4	2,143.9	6.4	6.5	16.10	214.7	-63.4	159.5	146.8	12.70	12.558		
2,200.0	2,195.4	2,164.3	2,158.5	6.4	6.5	16.02	217.6	-64.9	160.5	147.7	12.78	12.558		
2,280.0	2,274.5	2,244.1	2,236.4	6.7	6.8	15.59	233.0	-72.7	165.9	152.7	13.25	12.529		
2,300.0	2,294.3	2,264.1	2,255.8	6.7	6.8	15.48	236.9	-74.6	167.3	153.9	13.37	12.517		
2,375.0	2,368.5	2,338.9	2,328.9	7.0	7.1	15.11	251.3	-82.0	172.4	158.6	13.84	12.458		

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	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	
2,400.0	2,393.2	2,363.8	2,353.2	7.0	7.1	14.99	256.1	-84.4	174.1	160.1	14.00	12.437		
2,470.0	2,462.5	2,433.7	2,421.4	7.3	7.4	14.67	269.6	-91.2	178.9	164.5	14.47	12.369		
2,500.0	2,492.1	2,463.6	2,450.6	7.4	7.5	14.53	275.4	-94.1	181.0	166.3	14.67	12.338		
2,565.0	2,556.4	2,528.4	2,513.9	7.6	7.7	14.25	287.9	-100.5	185.4	170.3	15.12	12.267		
2,600.0	2,591.0	2,563.4	2,548.0	7.7	7.8	14.11	294.7	-103.9	187.8	172.5	15.36	12.227		
2,660.0	2,650.4	2,623.2	2,606.5	7.9	8.0	13.87	306.2	-109.7	192.0	176.2	15.79	12.157		
2,700.0	2,689.9	2,663.1	2,645.4	8.1	8.2	13.72	314.0	-113.6	194.7	178.6	16.08	12.109		
2,755.0	2,744.3	2,718.0	2,699.0	8.2	8.4	13.51	324.5	-119.0	198.5	182.0	16.48	12.041		
2,800.0	2,788.8	2,762.9	2,742.8	8.4	8.6	13.35	333.2	-123.4	201.6	184.8	16.82	11.986		
2,850.0	2,838.3	2,812.8	2,791.5	8.6	8.7	13.18	342.9	-128.3	205.0	187.8	17.19	11.924		
2,900.0	2,887.7	2,862.6	2,840.2	8.8	8.9	13.01	352.5	-133.1	208.4	190.9	17.57	11.861		
2,945.0	2,932.2	2,907.5	2,884.0	8.9	9.1	12.86	361.2	-137.5	211.5	193.6	17.92	11.805		
3,000.0	2,986.6	2,962.4	2,937.6	9.1	9.3	12.69	371.8	-142.9	215.3	197.0	18.35	11.737		
3,040.0	3,026.2	3,002.3	2,976.5	9.3	9.5	12.56	379.5	-146.8	218.1	199.4	18.66	11.688		
3,100.0	3,085.5	3,062.1	3,035.0	9.5	9.7	12.39	391.0	-152.6	222.2	203.1	19.13	11.615		
3,135.0	3,120.1	3,097.1	3,069.1	9.6	9.9	12.29	397.8	-156.1	224.6	205.2	19.41	11.573		
3,200.0	3,184.4	3,161.9	3,132.4	9.9	10.1	12.10	410.3	-162.4	229.1	209.2	19.93	11.495		
3,230.0	3,214.1	3,191.8	3,161.6	10.0	10.3	12.02	416.1	-165.3	231.2	211.0	20.17	11.460		
3,300.0	3,283.3	3,261.7	3,229.7	10.3	10.5	11.84	429.6	-172.1	236.0	215.3	20.74	11.379		
3,325.0	3,308.1	3,286.6	3,254.1	10.4	10.7	11.77	434.4	-174.6	237.7	216.8	20.95	11.351		
3,400.0	3,382.2	3,361.4	3,327.1	10.7	11.0	11.59	448.8	-181.9	242.9	221.4	21.56	11.267		
3,420.0	3,402.0	3,381.4	3,346.6	10.7	11.1	11.54	452.7	-183.8	244.3	222.6	21.73	11.245		
3,500.0	3,481.1	3,461.2	3,424.5	11.1	11.4	11.35	468.1	-191.6	249.8	227.4	22.39	11.158		
3,515.0	3,496.0	3,476.1	3,439.1	11.1	11.5	11.32	471.0	-193.1	250.9	228.4	22.52	11.142		
3,600.0	3,580.0	3,560.9	3,521.9	11.5	11.8	11.13	487.4	-201.4	256.8	233.5	23.23	11.054		
3,610.0	3,589.9	3,570.9	3,531.7	11.5	11.9	11.10	489.3	-202.4	257.4	234.1	23.31	11.044		
3,700.0	3,678.9	3,660.7	3,619.3	11.9	12.2	10.91	506.7	-211.1	263.7	239.6	24.07	10.954		
3,705.0	3,683.9	3,665.7	3,624.2	11.9	12.3	10.90	507.6	-211.6	264.0	239.9	24.11	10.949		
3,800.0	3,777.8	3,760.4	3,716.7	12.3	12.7	10.71	525.9	-220.9	270.6	245.7	24.92	10.858		
3,895.0	3,871.8	3,855.2	3,809.2	12.6	13.1	10.53	544.2	-230.1	277.2	251.4	25.73	10.771		
3,900.0	3,876.7	3,860.2	3,814.1	12.7	13.1	10.52	545.2	-230.6	277.5	251.7	25.78	10.766		
3,990.0	3,965.8	3,950.0	3,901.7	13.0	13.5	10.36	562.6	-239.4	283.8	257.2	26.55	10.687		
4,000.0	3,975.6	3,959.9	3,911.5	13.1	13.6	10.34	564.5	-240.4	284.4	257.8	26.64	10.679		
4,085.0	4,059.7	4,044.7	3,994.3	13.4	13.9	10.19	580.9	-248.7	290.3	263.0	27.37	10.608		
4,100.0	4,074.5	4,059.7	4,008.9	13.5	14.0	10.16	583.7	-250.1	291.4	263.9	27.50	10.596		
4,127.7	4,101.9	4,087.3	4,035.8	13.6	14.1	10.12	589.1	-252.8	293.3	265.6	27.72	10.579		
4,180.0	4,153.7	4,145.3	4,092.6	13.8	14.4	10.04	599.8	-258.3	296.7	268.4	28.22	10.511		
4,200.0	4,173.5	4,167.6	4,114.4	13.9	14.5	10.01	603.6	-260.2	297.8	269.4	28.41	10.480		
4,275.0	4,247.9	4,251.1	4,196.7	14.2	14.9	9.93	616.7	-266.8	301.3	272.2	29.12	10.346		
4,300.0	4,272.7	4,279.0	4,224.2	14.3	15.0	9.92	620.6	-268.8	302.2	272.8	29.35	10.297		
4,370.0	4,342.3	4,357.1	4,301.6	14.5	15.3	9.89	630.2	-273.6	304.0	274.0	29.95	10.149		
4,400.0	4,372.1	4,390.7	4,334.9	14.6	15.5	9.89	633.7	-275.4	304.4	274.2	30.20	10.080		
4,465.0	4,436.8	4,463.3	4,407.1	14.9	15.8	9.90	640.2	-278.7	304.8	274.1	30.70	9.926		
4,500.0	4,471.7	4,502.4	4,446.1	15.0	15.9	9.92	643.0	-280.1	304.6	273.6	30.97	9.836		
4,560.0	4,531.5	4,569.4	4,513.0	15.2	16.2	9.96	646.7	-282.0	303.6	272.3	31.37	9.680		
4,600.0	4,571.4	4,614.1	4,557.6	15.4	16.3	10.01	648.4	-282.8	302.6	270.9	31.61	9.571		
4,655.0	4,626.3	4,675.4	4,618.9	15.6	16.5	10.08	649.7	-283.5	300.6	268.7	31.90	9.422		
4,700.0	4,671.2	4,724.3	4,667.8	15.7	16.6	10.16	649.9	-283.6	298.5	266.4	32.08	9.303		
4,750.0	4,721.2	4,774.2	4,717.8	15.9	16.6	10.23	649.9	-283.6	296.3	264.0	32.26	9.185		
4,800.0	4,771.1	4,824.2	4,767.7	16.0	16.7	10.29	649.9	-283.6	294.5	262.1	32.44	9.080		
4,845.0	4,816.1	4,869.2	4,812.7	16.2	16.7	10.33	649.9	-283.6	293.3	260.8	32.58	9.003		

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	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	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor
4,900.0	4,871.1	4,924.2	4,867.7	16.3	16.7	10.36	649.9	-283.6	292.3	259.6	32.76	8.923
4,940.0	4,911.1	4,964.2	4,907.7	16.4	16.7	10.38	649.9	-283.6	291.9	259.1	32.84	8.889
4,977.9	4,949.0	5,002.1	4,945.6	16.4	16.8	-17.45	649.9	-283.6	291.8	258.9	32.92	8.865
5,000.0	4,971.1	5,024.2	4,967.7	16.4	16.8	-17.45	649.9	-283.6	291.8	258.9	32.93	8.861
5,035.0	5,006.1	5,059.2	5,002.7	16.5	16.8	-17.45	649.9	-283.6	291.8	258.9	32.97	8.850
5,100.0	5,071.1	5,124.2	5,067.7	16.5	16.8	-17.45	649.9	-283.6	291.8	258.8	33.05	8.830
5,130.0	5,101.1	5,154.2	5,097.7	16.5	16.8	-17.45	649.9	-283.6	291.8	258.7	33.08	8.821
5,200.0	5,171.1	5,224.2	5,167.7	16.6	16.9	-17.45	649.9	-283.6	291.8	258.7	33.16	8.800
5,225.0	5,196.1	5,249.2	5,192.7	16.6	16.9	-17.45	649.9	-283.6	291.8	258.6	33.19	8.792
5,300.0	5,271.1	5,324.2	5,267.7	16.6	16.9	-17.45	649.9	-283.6	291.8	258.5	33.28	8.769
5,320.0	5,291.1	5,344.2	5,287.7	16.6	16.9	-17.45	649.9	-283.6	291.8	258.5	33.30	8.763
5,400.0	5,371.1	5,424.2	5,367.7	16.7	17.0	-17.45	649.9	-283.6	291.8	258.4	33.39	8.739
5,415.0	5,386.1	5,439.2	5,382.7	16.7	17.0	-17.45	649.9	-283.6	291.8	258.4	33.41	8.735
5,500.0	5,471.1	5,524.2	5,467.7	16.7	17.1	-17.45	649.9	-283.6	291.8	258.3	33.51	8.709
5,510.0	5,481.1	5,534.2	5,477.7	16.7	17.1	-17.45	649.9	-283.6	291.8	258.3	33.52	8.706
5,600.0	5,571.1	5,624.2	5,567.7	16.8	17.1	-17.45	649.9	-283.6	291.8	258.2	33.62	8.679
5,605.0	5,576.1	5,629.2	5,572.7	16.8	17.1	-17.45	649.9	-283.6	291.8	258.2	33.63	8.677
5,700.0	5,671.1	5,724.2	5,667.7	16.8	17.2	-17.45	649.9	-283.6	291.8	258.1	33.74	8.649
5,795.0	5,766.1	5,819.2	5,762.7	16.9	17.2	-17.45	649.9	-283.6	291.8	258.0	33.85	8.621
5,800.0	5,771.1	5,824.2	5,767.7	16.9	17.2	-17.45	649.9	-283.6	291.8	258.0	33.86	8.619
5,890.0	5,861.1	5,914.2	5,857.7	17.0	17.3	-17.45	649.9	-283.6	291.8	257.9	33.96	8.592
5,900.0	5,871.1	5,924.2	5,867.7	17.0	17.3	-17.45	649.9	-283.6	291.8	257.9	33.98	8.589
5,985.0	5,956.1	6,009.2	5,952.7	17.0	17.3	-17.45	649.9	-283.6	291.8	257.8	34.08	8.564
6,000.0	5,971.1	6,024.2	5,967.7	17.0	17.3	-17.45	649.9	-283.6	291.8	257.7	34.09	8.560
6,080.0	6,051.1	6,104.2	6,047.7	17.1	17.4	-17.45	649.9	-283.6	291.8	257.6	34.19	8.536
6,100.0	6,071.1	6,124.2	6,067.7	17.1	17.4	-17.45	649.9	-283.6	291.8	257.6	34.21	8.530
6,175.0	6,146.1	6,199.2	6,142.7	17.1	17.4	-17.45	649.9	-283.6	291.8	257.5	34.30	8.508
6,200.0	6,171.1	6,224.2	6,167.7	17.1	17.5	-17.45	649.9	-283.6	291.8	257.5	34.33	8.501
6,270.0	6,241.1	6,294.2	6,237.7	17.2	17.5	-17.45	649.9	-283.6	291.8	257.4	34.41	8.480
6,300.0	6,271.1	6,324.2	6,267.7	17.2	17.5	-17.45	649.9	-283.6	291.8	257.4	34.45	8.472
6,365.0	6,336.1	6,389.2	6,332.7	17.2	17.5	-17.45	649.9	-283.6	291.8	257.3	34.53	8.453
6,400.0	6,371.1	6,424.2	6,367.7	17.3	17.6	-17.45	649.9	-283.6	291.8	257.3	34.57	8.442
6,460.0	6,431.1	6,484.2	6,427.7	17.3	17.6	-17.45	649.9	-283.6	291.8	257.2	34.64	8.425
6,500.0	6,471.1	6,524.2	6,467.7	17.3	17.6	-17.45	649.9	-283.6	291.8	257.1	34.69	8.413
6,555.0	6,526.1	6,579.2	6,522.7	17.3	17.7	-17.45	649.9	-283.6	291.8	257.1	34.75	8.397
6,600.0	6,571.1	6,624.2	6,567.7	17.4	17.7	-17.45	649.9	-283.6	291.8	257.0	34.81	8.384
6,650.0	6,621.1	6,674.2	6,617.7	17.4	17.7	-17.45	649.9	-283.6	291.8	257.0	34.87	8.370
6,700.0	6,671.1	6,724.2	6,667.7	17.4	17.7	-17.45	649.9	-283.6	291.8	256.9	34.93	8.355
6,745.0	6,716.1	6,769.2	6,712.7	17.5	17.8	-17.45	649.9	-283.6	291.8	256.8	34.98	8.343
6,800.0	6,771.1	6,824.2	6,767.7	17.5	17.8	-17.45	649.9	-283.6	291.8	256.8	35.05	8.327
6,840.0	6,811.1	6,864.2	6,807.7	17.5	17.8	-17.45	649.9	-283.6	291.8	256.7	35.10	8.315
6,900.0	6,871.1	6,924.2	6,867.7	17.6	17.9	-17.45	649.9	-283.6	291.8	256.7	35.17	8.298
6,935.0	6,906.1	6,959.2	6,902.7	17.6	17.9	-17.45	649.9	-283.6	291.8	256.6	35.21	8.288
7,000.0	6,971.1	7,024.2	6,967.7	17.6	17.9	-17.45	649.9	-283.6	291.8	256.5	35.29	8.270
7,030.0	7,001.1	7,054.2	6,997.7	17.6	17.9	-17.45	649.9	-283.6	291.8	256.5	35.33	8.261
7,100.0	7,071.1	7,124.2	7,067.7	17.7	18.0	-17.45	649.9	-283.6	291.8	256.4	35.41	8.241
7,125.0	7,096.1	7,149.2	7,092.7	17.7	18.0	-17.45	649.9	-283.6	291.8	256.4	35.44	8.234
7,200.0	7,171.1	7,224.2	7,167.7	17.7	18.0	-17.45	649.9	-283.6	291.8	256.3	35.53	8.213
7,220.0	7,191.1	7,244.2	7,187.7	17.7	18.1	-17.45	649.9	-283.6	291.8	256.3	35.56	8.207
7,300.0	7,271.1	7,324.2	7,267.7	17.8	18.1	-17.45	649.9	-283.6	291.8	256.2	35.65	8.185
7,315.0	7,286.1	7,339.2	7,282.7	17.8	18.1	-17.45	649.9	-283.6	291.8	256.2	35.67	8.181

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	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	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor
7,400.0	7,371.1	7,424.2	7,367.7	17.9	18.2	-17.45	649.9	-283.6	291.8	256.0	35.78	8.157
7,410.0	7,381.1	7,434.2	7,377.7	17.9	18.2	-17.45	649.9	-283.6	291.8	256.0	35.79	8.154
7,500.0	7,471.1	7,524.2	7,467.7	17.9	18.2	-17.45	649.9	-283.6	291.8	255.9	35.90	8.129
7,505.0	7,476.1	7,529.2	7,472.7	17.9	18.2	-17.45	649.9	-283.6	291.8	255.9	35.91	8.128
7,600.0	7,571.1	7,624.2	7,567.7	18.0	18.3	-17.45	649.9	-283.6	291.8	255.8	36.02	8.101
7,695.0	7,666.1	7,719.2	7,662.7	18.0	18.3	-17.45	649.9	-283.6	291.8	255.7	36.14	8.075
7,700.0	7,671.1	7,724.2	7,667.7	18.0	18.3	-17.45	649.9	-283.6	291.8	255.7	36.15	8.073
7,790.0	7,761.1	7,814.2	7,757.7	18.1	18.4	-17.45	649.9	-283.6	291.8	255.6	36.26	8.049
7,800.0	7,771.1	7,824.2	7,767.7	18.1	18.4	-17.45	649.9	-283.6	291.8	255.6	36.27	8.046
7,885.0	7,856.1	7,909.2	7,852.7	18.2	18.5	-17.45	649.9	-283.6	291.8	255.5	36.38	8.023
7,900.0	7,871.1	7,924.2	7,867.7	18.2	18.5	-17.45	649.9	-283.6	291.8	255.4	36.39	8.019
7,980.0	7,951.1	8,004.2	7,947.7	18.2	18.5	-17.45	649.9	-283.6	291.8	255.3	36.49	7.997
8,000.0	7,971.1	8,024.2	7,967.7	18.2	18.5	-17.45	649.9	-283.6	291.8	255.3	36.52	7.991
8,075.0	8,046.1	8,099.2	8,042.7	18.3	18.6	-17.45	649.9	-283.6	291.8	255.2	36.61	7.971
8,100.0	8,071.1	8,124.2	8,067.7	18.3	18.6	-17.45	649.9	-283.6	291.8	255.2	36.64	7.964
8,170.0	8,141.1	8,194.2	8,137.7	18.3	18.6	-17.45	649.9	-283.6	291.8	255.1	36.73	7.945
8,200.0	8,171.1	8,224.2	8,167.7	18.3	18.6	-17.45	649.9	-283.6	291.8	255.1	36.77	7.937
8,265.0	8,236.1	8,289.2	8,232.7	18.4	18.7	-17.45	649.9	-283.6	291.8	255.0	36.85	7.919
8,300.0	8,271.1	8,324.2	8,267.7	18.4	18.7	-17.45	649.9	-283.6	291.8	254.9	36.89	7.910
8,360.0	8,331.1	8,384.2	8,327.7	18.4	18.7	-17.45	649.9	-283.6	291.8	254.9	36.96	7.895
8,402.9	8,374.0	8,427.1	8,370.6	18.5	18.8	-17.45	649.9	-283.6	291.8	254.8	37.01	7.885
8,450.0	8,421.1	8,474.1	8,417.7	18.5	18.8	162.10	649.9	-283.6	293.7	256.6	37.08	7.919
8,455.0	8,426.0	8,479.1	8,422.6	18.5	18.8	162.12	649.9	-283.6	294.1	257.0	37.09	7.928
8,500.0	8,470.7	8,523.7	8,467.3	18.6	18.8	162.29	649.9	-283.6	299.6	262.5	37.16	8.064
8,550.0	8,519.5	8,572.6	8,516.1	18.6	18.9	162.58	649.9	-283.6	309.7	272.5	37.22	8.321
8,600.0	8,567.3	8,620.3	8,563.9	18.7	18.9	162.93	649.9	-283.6	323.9	286.6	37.28	8.690
8,645.0	8,609.0	8,662.0	8,605.6	18.7	18.9	163.26	649.9	-283.6	340.1	302.8	37.32	9.114
8,650.0	8,613.5	8,666.6	8,610.1	18.7	18.9	163.30	649.9	-283.6	342.1	304.8	37.32	9.166
8,700.0	8,658.0	8,711.0	8,654.6	18.8	18.9	163.64	649.9	-283.6	364.2	326.8	37.36	9.749
8,740.0	8,692.0	8,745.1	8,688.6	18.9	19.0	163.87	649.9	-283.6	384.6	347.2	37.38	10.288
8,750.0	8,700.3	8,753.3	8,696.9	18.9	19.0	163.92	649.9	-283.6	390.1	352.7	37.39	10.433
8,800.0	8,740.1	8,793.1	8,736.7	18.9	19.0	164.07	649.9	-283.6	419.5	382.1	37.41	11.214
8,835.0	8,766.3	8,819.4	8,762.9	19.0	19.0	164.09	649.9	-283.6	442.2	404.8	37.43	11.815
8,850.0	8,777.1	8,830.2	8,773.7	19.0	19.0	164.06	649.9	-283.6	452.4	415.0	37.43	12.086
8,900.0	8,811.1	8,864.1	8,807.7	19.0	19.0	163.84	649.9	-283.6	488.4	451.0	37.45	13.042
8,930.0	8,829.9	8,882.9	8,826.5	19.1	19.1	163.57	649.9	-283.6	511.4	473.9	37.45	13.654
8,950.0	8,841.7	8,894.8	8,838.3	19.1	19.1	163.32	649.9	-283.6	527.3	489.8	37.46	14.076
9,000.0	8,868.8	8,921.8	8,865.4	19.2	19.1	162.38	649.9	-283.6	568.7	531.3	37.47	15.179
9,025.0	8,880.9	8,934.0	8,877.5	19.2	19.1	161.70	649.9	-283.6	590.3	552.8	37.47	15.755
9,050.0	8,892.1	8,945.1	8,888.7	19.2	19.1	160.83	649.9	-283.6	612.4	575.0	37.47	16.345
9,100.0	8,911.4	8,964.5	8,908.0	19.3	19.1	158.30	649.9	-283.6	658.0	620.6	37.47	17.563
9,120.0	8,918.0	8,971.1	8,914.6	19.3	19.1	156.86	649.9	-283.6	676.7	639.3	37.46	18.064
9,150.0	8,926.7	8,979.8	8,923.3	19.3	19.1	154.00	649.9	-283.6	705.2	667.8	37.46	18.826
9,200.0	8,937.8	8,990.8	8,934.4	19.3	19.1	146.06	649.9	-283.6	753.6	716.1	37.45	20.125
9,215.0	8,940.3	8,993.3	8,936.9	19.3	19.1	142.35	649.9	-283.6	768.3	730.8	37.44	20.521
9,250.0	8,944.6	8,997.6	8,941.2	19.4	19.1	129.28	649.9	-283.6	802.8	765.4	37.42	21.451
9,302.1	8,947.0	10,415.6	9,756.2	19.4	20.3	173.68	-199.1	-291.1	817.6	781.0	36.61	22.331
9,310.0	8,947.0	10,423.5	9,756.2	19.4	20.3	173.68	-207.1	-291.2	817.6	780.9	36.65	22.307
9,400.0	8,947.1	10,513.5	9,756.3	19.4	20.4	173.68	-297.1	-292.0	817.5	780.4	37.09	22.044
9,405.0	8,947.2	10,518.5	9,756.3	19.4	20.4	173.68	-302.1	-292.0	817.5	780.4	37.11	22.028
9,500.0	8,947.3	10,613.5	9,756.4	19.5	20.4	173.68	-397.1	-292.9	817.4	779.8	37.63	21.724

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	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				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		
9,595.0	8,947.4	10,708.5	9,756.5	19.5	20.5	173.68	-492.1	-293.7	817.4	779.2	38.20	21.399		
9,600.0	8,947.4	10,713.5	9,756.5	19.5	20.5	173.68	-497.1	-293.8	817.4	779.2	38.23	21.381		
9,690.0	8,947.6	10,803.5	9,756.5	19.6	20.6	173.68	-587.1	-294.6	817.3	778.5	38.82	21.056		
9,700.0	8,947.6	10,813.5	9,756.5	19.6	20.6	173.68	-597.1	-294.7	817.3	778.4	38.88	21.019		
9,785.0	8,947.7	10,898.5	9,756.6	19.7	20.7	173.68	-682.1	-295.4	817.3	777.8	39.48	20.699		
9,800.0	8,947.7	10,913.5	9,756.6	19.7	20.7	173.68	-697.1	-295.6	817.2	777.7	39.59	20.642		
9,880.0	8,947.9	10,993.5	9,756.7	19.8	20.8	173.68	-777.0	-296.3	817.2	777.0	40.19	20.332		
9,900.0	8,947.9	11,013.5	9,756.7	19.8	20.9	173.68	-797.0	-296.4	817.2	776.8	40.35	20.254		
9,975.0	8,948.0	11,088.5	9,756.8	19.9	21.0	173.68	-872.0	-297.1	817.1	776.2	40.95	19.956		
10,000.0	8,948.0	11,113.5	9,756.8	19.9	21.0	173.68	-897.0	-297.3	817.1	776.0	41.15	19.858		
10,070.0	8,948.1	11,183.5	9,756.8	20.0	21.1	173.68	-967.0	-297.9	817.1	775.3	41.74	19.576		
10,100.0	8,948.2	11,213.5	9,756.9	20.1	21.2	173.68	-997.0	-298.2	817.0	775.0	41.99	19.456		
10,165.0	8,948.3	11,278.5	9,756.9	20.2	21.3	173.68	-1,062.0	-298.8	817.0	774.4	42.57	19.193		
10,200.0	8,948.3	11,313.5	9,756.9	20.2	21.4	173.68	-1,097.0	-299.1	817.0	774.1	42.88	19.052		
10,260.0	8,948.4	11,373.5	9,757.0	20.3	21.5	173.68	-1,157.0	-299.6	816.9	773.5	43.43	18.809		
10,300.0	8,948.5	11,413.5	9,757.0	20.4	21.6	173.68	-1,197.0	-300.0	816.9	773.1	43.81	18.648		
10,355.0	8,948.6	11,468.5	9,757.1	20.5	21.8	173.68	-1,252.0	-300.5	816.9	772.5	44.33	18.426		
10,400.0	8,948.6	11,513.5	9,757.1	20.6	21.9	173.68	-1,297.0	-300.9	816.8	772.1	44.77	18.246		
10,450.0	8,948.7	11,563.5	9,757.1	20.7	22.0	173.68	-1,347.0	-301.3	816.8	771.5	45.26	18.045		
10,500.0	8,948.8	11,613.5	9,757.2	20.9	22.2	173.68	-1,397.0	-301.8	816.8	771.0	45.76	17.848		
10,545.0	8,948.8	11,658.5	9,757.2	21.0	22.3	173.68	-1,442.0	-302.2	816.7	770.5	46.22	17.669		
10,600.0	8,948.9	11,713.5	9,757.2	21.1	22.5	173.68	-1,497.0	-302.6	816.7	769.9	46.79	17.455		
10,640.0	8,949.0	11,753.5	9,757.3	21.3	22.6	173.68	-1,537.0	-303.0	816.7	769.5	47.21	17.298		
10,700.0	8,949.1	11,813.5	9,757.3	21.4	22.9	173.68	-1,597.0	-303.5	816.6	768.8	47.85	17.068		
10,735.0	8,949.1	11,848.5	9,757.4	21.6	23.0	173.68	-1,632.0	-303.8	816.6	768.4	48.22	16.934		
10,800.0	8,949.2	11,913.5	9,757.4	21.8	23.3	173.68	-1,697.0	-304.4	816.6	767.6	48.93	16.689		
10,830.0	8,949.3	11,943.5	9,757.4	21.9	23.4	173.67	-1,727.0	-304.7	816.5	767.3	49.26	16.576		
10,900.0	8,949.4	12,013.5	9,757.5	22.2	23.7	173.67	-1,797.0	-305.3	816.5	766.5	50.04	16.317		
10,925.0	8,949.4	12,038.5	9,757.5	22.3	23.8	173.67	-1,822.0	-305.5	816.5	766.2	50.32	16.225		
11,000.0	8,949.5	12,113.5	9,757.6	22.6	24.2	173.67	-1,897.0	-306.2	816.4	765.2	51.17	15.954		
11,020.0	8,949.5	12,133.5	9,757.6	22.7	24.3	173.67	-1,917.0	-306.4	816.4	765.0	51.40	15.882		
11,100.0	8,949.7	12,213.5	9,757.6	23.0	24.7	173.67	-1,997.0	-307.1	816.4	764.0	52.33	15.600		
11,115.0	8,949.7	12,228.5	9,757.7	23.1	24.7	173.67	-2,012.0	-307.2	816.3	763.8	52.51	15.548		
11,200.0	8,949.8	12,313.5	9,757.7	23.5	25.2	173.67	-2,097.0	-308.0	816.3	762.8	53.51	15.256		
11,210.0	8,949.8	12,323.5	9,757.7	23.6	25.2	173.67	-2,107.0	-308.1	816.3	762.7	53.63	15.221		
11,300.0	8,950.0	12,413.5	9,757.8	24.0	25.7	173.67	-2,197.0	-308.9	816.2	761.5	54.70	14.920		
11,305.0	8,950.0	12,418.5	9,757.8	24.1	25.7	173.67	-2,202.0	-308.9	816.2	761.4	54.77	14.904		
11,400.0	8,950.1	12,513.5	9,757.9	24.6	26.3	173.67	-2,297.0	-309.7	816.1	760.2	55.92	14.595		
11,495.0	8,950.2	12,608.5	9,758.0	25.1	26.8	173.67	-2,392.0	-310.6	816.1	759.0	57.09	14.294		
11,500.0	8,950.3	12,613.5	9,758.0	25.1	26.8	173.67	-2,397.0	-310.6	816.1	758.9	57.15	14.279		
11,590.0	8,950.4	12,703.5	9,758.0	25.6	27.3	173.67	-2,487.0	-311.4	816.0	757.7	58.28	14.002		
11,600.0	8,950.4	12,713.5	9,758.0	25.7	27.4	173.67	-2,497.0	-311.5	816.0	757.6	58.40	13.972		
11,685.0	8,950.5	12,798.5	9,758.1	26.2	27.9	173.67	-2,582.0	-312.3	816.0	756.5	59.48	13.719		
11,700.0	8,950.5	12,813.5	9,758.1	26.3	28.0	173.67	-2,597.0	-312.4	815.9	756.3	59.67	13.675		
11,780.0	8,950.7	12,893.5	9,758.2	26.7	28.5	173.67	-2,677.0	-313.1	815.9	755.2	60.69	13.444		
11,800.0	8,950.7	12,913.5	9,758.2	26.9	28.6	173.67	-2,697.0	-313.3	815.9	754.9	60.95	13.387		
11,875.0	8,950.8	12,988.5	9,758.3	27.3	29.1	173.67	-2,772.0	-314.0	815.8	753.9	61.91	13.177		
11,900.0	8,950.8	13,013.5	9,758.3	27.5	29.2	173.67	-2,797.0	-314.2	815.8	753.6	62.24	13.108		
11,970.0	8,950.9	13,083.5	9,758.3	27.9	29.7	173.67	-2,867.0	-314.8	815.8	752.6	63.15	12.918		
12,000.0	8,951.0	13,113.5	9,758.4	28.1	29.9	173.67	-2,897.0	-315.1	815.7	752.2	63.54	12.838		
12,065.0	8,951.1	13,178.5	9,758.4	28.5	30.3	173.67	-2,962.0	-315.6	815.7	751.3	64.40	12.667		

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	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)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
12,100.0	8,951.1	13,213.5	9,758.4	28.7	30.5	173.67	173.67	-2,997.0	-316.0	815.7	750.8	64.86	12.576
12,160.0	8,951.2	13,273.5	9,758.5	29.1	30.9	173.67	173.67	-3,057.0	-316.5	815.6	750.0	65.65	12.423
12,200.0	8,951.3	13,313.5	9,758.5	29.4	31.1	173.67	173.67	-3,097.0	-316.8	815.6	749.4	66.19	12.323
12,255.0	8,951.4	13,368.5	9,758.6	29.7	31.5	173.67	173.67	-3,152.0	-317.3	815.6	748.6	66.92	12.187
12,300.0	8,951.4	13,413.5	9,758.6	30.0	31.8	173.67	173.67	-3,197.0	-317.7	815.5	748.0	67.52	12.078
12,350.0	8,951.5	13,463.5	9,758.6	30.3	32.1	173.67	173.67	-3,246.9	-318.2	815.5	747.3	68.20	11.958
12,400.0	8,951.6	13,513.5	9,758.7	30.7	32.4	173.67	173.67	-3,296.9	-318.6	815.5	746.6	68.87	11.840
12,445.0	8,951.7	13,558.5	9,758.7	31.0	32.7	173.67	173.67	-3,341.9	-319.0	815.4	746.0	69.48	11.736
12,500.0	8,951.7	13,613.5	9,758.8	31.3	33.1	173.67	173.67	-3,396.9	-319.5	815.4	745.2	70.23	11.611
12,540.0	8,951.8	13,653.5	9,758.8	31.6	33.4	173.67	173.67	-3,436.9	-319.9	815.4	744.6	70.77	11.521
12,600.0	8,951.9	13,713.5	9,758.8	32.0	33.8	173.67	173.67	-3,496.9	-320.4	815.3	743.7	71.59	11.388
12,635.0	8,951.9	13,748.5	9,758.9	32.2	34.0	173.67	173.67	-3,531.9	-320.7	815.3	743.2	72.07	11.312
12,700.0	8,952.0	13,813.5	9,758.9	32.7	34.5	173.67	173.67	-3,596.9	-321.3	815.3	742.3	72.97	11.173
12,730.0	8,952.1	13,843.5	9,758.9	32.9	34.7	173.67	173.67	-3,626.9	-321.5	815.2	741.9	73.38	11.110
12,800.0	8,952.2	13,913.5	9,759.0	33.3	35.1	173.66	173.66	-3,696.9	-322.2	815.2	740.8	74.35	10.965
12,825.0	8,952.2	13,938.5	9,759.0	33.5	35.3	173.66	173.66	-3,721.9	-322.4	815.2	740.5	74.70	10.913
12,900.0	8,952.3	14,013.5	9,759.1	34.0	35.8	173.66	173.66	-3,796.9	-323.1	815.1	739.4	75.74	10.763
12,920.0	8,952.4	14,033.5	9,759.1	34.1	35.9	173.66	173.66	-3,816.9	-323.2	815.1	739.1	76.02	10.723
13,000.0	8,952.5	14,113.5	9,759.1	34.7	36.5	173.66	173.66	-3,896.9	-323.9	815.1	737.9	77.13	10.567
13,015.0	8,952.5	14,128.5	9,759.2	34.8	36.6	173.66	173.66	-3,911.9	-324.1	815.0	737.7	77.34	10.538
13,100.0	8,952.6	14,213.5	9,759.2	35.4	37.2	173.66	173.66	-3,996.9	-324.8	815.0	736.5	78.53	10.377
13,110.0	8,952.6	14,223.5	9,759.2	35.5	37.3	173.66	173.66	-4,006.9	-324.9	815.0	736.3	78.68	10.359
13,200.0	8,952.8	14,313.5	9,759.3	36.1	37.9	173.66	173.66	-4,096.9	-325.7	814.9	735.0	79.94	10.194
13,205.0	8,952.8	14,318.5	9,759.3	36.1	37.9	173.66	173.66	-4,101.9	-325.8	814.9	734.9	80.01	10.185
13,300.0	8,952.9	14,413.5	9,759.4	36.8	38.6	173.66	173.66	-4,196.9	-326.6	814.9	733.5	81.36	10.016
13,395.0	8,953.1	14,508.5	9,759.5	37.4	39.2	173.66	173.66	-4,291.9	-327.4	814.8	732.1	82.71	9.852
13,400.0	8,953.1	14,513.5	9,759.5	37.5	39.3	173.66	173.66	-4,296.9	-327.5	814.8	732.0	82.78	9.843
13,490.0	8,953.2	14,603.5	9,759.5	38.1	39.9	173.66	173.66	-4,386.9	-328.3	814.7	730.7	84.06	9.692
13,500.0	8,953.2	14,613.5	9,759.5	38.2	40.0	173.66	173.66	-4,396.9	-328.4	814.7	730.5	84.20	9.676
13,585.0	8,953.3	14,698.5	9,759.6	38.8	40.6	173.66	173.66	-4,481.9	-329.1	814.7	729.2	85.42	9.537
13,600.0	8,953.4	14,713.5	9,759.6	38.9	40.7	173.66	173.66	-4,496.9	-329.3	814.6	729.0	85.63	9.513
13,680.0	8,953.5	14,793.5	9,759.7	39.4	41.2	173.66	173.66	-4,576.9	-330.0	814.6	727.8	86.78	9.387
13,700.0	8,953.5	14,813.5	9,759.7	39.6	41.4	173.66	173.66	-4,596.9	-330.2	814.6	727.5	87.07	9.356
13,775.0	8,953.6	14,888.5	9,759.8	40.1	41.9	173.66	173.66	-4,671.9	-330.8	814.5	726.4	88.15	9.241
13,800.0	8,953.7	14,913.5	9,759.8	40.3	42.1	173.66	173.66	-4,696.9	-331.0	814.5	726.0	88.51	9.203
13,870.0	8,953.8	14,983.5	9,759.8	40.8	42.6	173.66	173.66	-4,766.9	-331.7	814.5	724.9	89.52	9.098
13,900.0	8,953.8	15,013.5	9,759.9	41.0	42.8	173.66	173.66	-4,796.9	-331.9	814.4	724.5	89.95	9.054
13,965.0	8,953.9	15,078.5	9,759.9	41.5	43.3	173.66	173.66	-4,861.9	-332.5	814.4	723.5	90.89	8.960
14,000.0	8,954.0	15,113.5	9,759.9	41.7	43.5	173.66	173.66	-4,896.9	-332.8	814.4	723.0	91.40	8.910
14,060.0	8,954.0	15,173.5	9,760.0	42.1	43.9	173.66	173.66	-4,956.9	-333.3	814.3	722.1	92.27	8.826
14,100.0	8,954.1	15,213.5	9,760.0	42.4	44.2	173.66	173.66	-4,996.9	-333.7	814.3	721.5	92.85	8.770
14,155.0	8,954.2	15,268.5	9,760.1	42.8	44.6	173.66	173.66	-5,051.9	-334.2	814.3	720.6	93.65	8.695
14,200.0	8,954.2	15,313.5	9,760.1	43.2	44.9	173.66	173.66	-5,096.9	-334.6	814.2	719.9	94.31	8.634
14,250.0	8,954.3	15,363.5	9,760.1	43.5	45.3	173.66	173.66	-5,146.9	-335.0	814.2	719.2	95.04	8.567
14,300.0	8,954.4	15,413.5	9,760.2	43.9	45.7	173.66	173.66	-5,196.9	-335.5	814.2	718.4	95.77	8.502
14,345.0	8,954.5	15,458.5	9,760.2	44.2	46.0	173.66	173.66	-5,241.9	-335.9	814.1	717.7	96.42	8.443
14,400.0	8,954.5	15,513.5	9,760.3	44.6	46.4	173.66	173.66	-5,296.9	-336.4	814.1	716.9	97.23	8.373
14,440.0	8,954.6	15,553.5	9,760.3	44.9	46.7	173.66	173.66	-5,336.9	-336.7	814.1	716.3	97.81	8.323
14,500.0	8,954.7	15,613.5	9,760.3	45.3	47.1	173.66	173.66	-5,396.9	-337.3	814.0	715.3	98.69	8.248
14,535.0	8,954.7	15,648.5	9,760.4	45.6	47.4	173.66	173.66	-5,431.9	-337.6	814.0	714.8	99.21	8.205
14,600.0	8,954.8	15,713.5	9,760.4	46.0	47.8	173.66	173.66	-5,496.9	-338.1	814.0	713.8	100.16	8.126

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	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)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
14,630.0	8,954.9	15,743.5	9,760.4	46.3	48.0	173.66	-5,526.9	-338.4	813.9	713.3	100.60	8.091		
14,700.0	8,955.0	15,813.5	9,760.5	46.8	48.5	173.66	-5,596.9	-339.0	813.9	712.3	101.64	8.008		
14,725.0	8,955.0	15,838.5	9,760.5	46.9	48.7	173.66	-5,621.9	-339.2	813.9	711.9	102.00	7.979		
14,800.0	8,955.1	15,913.5	9,760.6	47.5	49.3	173.65	-5,696.9	-339.9	813.8	710.7	103.11	7.893		
14,820.0	8,955.2	15,933.5	9,760.6	47.6	49.4	173.65	-5,716.9	-340.1	813.8	710.4	103.41	7.870		
14,900.0	8,955.3	16,013.5	9,760.7	48.2	50.0	173.65	-5,796.8	-340.8	813.8	709.2	104.59	7.781		
14,915.0	8,955.3	16,028.5	9,760.7	48.3	50.1	173.65	-5,811.8	-340.9	813.7	708.9	104.81	7.764		
15,000.0	8,955.4	16,113.5	9,760.7	48.9	50.7	173.65	-5,896.8	-341.7	813.7	707.6	106.07	7.671		
15,010.0	8,955.4	16,123.5	9,760.7	49.0	50.8	173.65	-5,906.8	-341.8	813.7	707.5	106.22	7.661		
15,100.0	8,955.6	16,213.5	9,760.8	49.7	51.5	173.65	-5,996.8	-342.6	813.6	706.1	107.55	7.565		
15,105.0	8,955.6	16,218.5	9,760.8	49.7	51.5	173.65	-6,001.8	-342.6	813.6	706.0	107.63	7.560		
15,200.0	8,955.7	16,313.5	9,760.9	50.4	52.2	173.65	-6,096.8	-343.5	813.6	704.5	109.04	7.461		
15,295.0	8,955.9	16,408.5	9,761.0	51.1	52.9	173.65	-6,191.8	-344.3	813.5	703.0	110.45	7.365		
15,300.0	8,955.9	16,413.5	9,761.0	51.1	52.9	173.65	-6,196.8	-344.3	813.5	703.0	110.52	7.360		
15,390.0	8,956.0	16,503.5	9,761.0	51.8	53.6	173.65	-6,286.8	-345.1	813.4	701.6	111.86	7.271		
15,400.0	8,956.0	16,513.5	9,761.1	51.9	53.6	173.65	-6,296.8	-345.2	813.4	701.4	112.01	7.262		
15,485.0	8,956.1	16,598.5	9,761.1	52.5	54.3	173.65	-6,381.8	-346.0	813.4	700.1	113.28	7.180		
15,500.0	8,956.2	16,613.5	9,761.1	52.6	54.4	173.65	-6,396.8	-346.1	813.3	699.8	113.51	7.166		
15,580.0	8,956.3	16,693.5	9,761.2	53.2	55.0	173.65	-6,476.8	-346.8	813.3	698.6	114.70	7.091		
15,600.0	8,956.3	16,713.5	9,761.2	53.3	55.1	173.65	-6,496.8	-347.0	813.3	698.3	115.00	7.072		
15,675.0	8,956.4	16,788.5	9,761.3	53.9	55.7	173.65	-6,571.8	-347.7	813.2	697.1	116.12	7.003		
15,700.0	8,956.5	16,813.5	9,761.3	54.1	55.8	173.65	-6,596.8	-347.9	813.2	696.7	116.50	6.981		
15,770.0	8,956.6	16,883.5	9,761.3	54.6	56.4	173.65	-6,666.8	-348.5	813.2	695.6	117.54	6.918		
15,800.0	8,956.6	16,913.5	9,761.4	54.8	56.6	173.65	-6,696.8	-348.8	813.1	695.1	117.99	6.891		
15,865.0	8,956.7	16,978.5	9,761.4	55.3	57.1	173.65	-6,761.8	-349.4	813.1	694.1	118.97	6.835		
15,900.0	8,956.8	17,013.5	9,761.4	55.6	57.3	173.65	-6,796.8	-349.7	813.1	693.6	119.49	6.804		
15,960.0	8,956.9	17,073.5	9,761.5	56.0	57.8	173.65	-6,856.8	-350.2	813.0	692.6	120.39	6.753		
16,000.0	8,956.9	17,113.5	9,761.5	56.3	58.1	173.65	-6,896.8	-350.6	813.0	692.0	120.99	6.719		
16,055.0	8,957.0	17,168.5	9,761.6	56.7	58.5	173.65	-6,951.8	-351.0	813.0	691.1	121.82	6.673		
16,100.0	8,957.1	17,213.5	9,761.6	57.0	58.8	173.65	-6,996.8	-351.4	812.9	690.4	122.50	6.636		
16,150.0	8,957.1	17,263.5	9,761.6	57.4	59.2	173.65	-7,046.8	-351.9	812.9	689.7	123.25	6.596		
16,200.0	8,957.2	17,313.5	9,761.7	57.8	59.5	173.65	-7,096.8	-352.3	812.9	688.9	124.00	6.555		
16,245.0	8,957.3	17,358.5	9,761.7	58.1	59.9	173.65	-7,141.8	-352.7	812.8	688.2	124.68	6.519		
16,300.0	8,957.4	17,413.5	9,761.8	58.5	60.3	173.65	-7,196.8	-353.2	812.8	687.3	125.51	6.476		
16,340.0	8,957.4	17,453.5	9,761.8	58.8	60.6	173.65	-7,236.8	-353.6	812.8	686.7	126.11	6.445		
16,400.0	8,957.5	17,513.5	9,761.8	59.3	61.0	173.65	-7,296.8	-354.1	812.7	685.7	127.02	6.399		
16,435.0	8,957.6	17,548.5	9,761.9	59.5	61.3	173.65	-7,331.8	-354.4	812.7	685.2	127.55	6.372		
16,500.0	8,957.7	17,613.5	9,761.9	60.0	61.7	173.65	-7,396.8	-355.0	812.7	684.1	128.53	6.323		
16,530.0	8,957.7	17,643.5	9,761.9	60.2	62.0	173.65	-7,426.8	-355.3	812.6	683.7	128.98	6.301		
16,600.0	8,957.8	17,713.5	9,762.0	60.7	62.5	173.65	-7,496.8	-355.9	812.6	682.6	130.04	6.249		
16,625.0	8,957.8	17,738.5	9,762.0	60.9	62.7	173.65	-7,521.8	-356.1	812.6	682.2	130.42	6.231		
16,700.0	8,957.9	17,813.5	9,762.1	61.5	63.2	173.65	-7,596.8	-356.8	812.5	681.0	131.55	6.177		
16,720.0	8,958.0	17,833.5	9,762.1	61.6	63.4	173.65	-7,616.8	-356.9	812.5	680.7	131.85	6.162		
16,800.0	8,958.1	17,913.5	9,762.2	62.2	64.0	173.64	-7,696.8	-357.7	812.5	679.4	133.06	6.106		
16,815.0	8,958.1	17,928.5	9,762.2	62.3	64.1	173.64	-7,711.8	-357.8	812.4	679.2	133.29	6.095		
16,900.0	8,958.2	18,013.5	9,762.2	63.0	64.7	173.64	-7,796.8	-358.5	812.4	677.8	134.58	6.037		
16,910.0	8,958.3	18,023.5	9,762.2	63.0	64.8	173.64	-7,806.8	-358.6	812.4	677.7	134.73	6.030		
17,000.0	8,958.4	18,113.5	9,762.3	63.7	65.5	173.64	-7,896.8	-359.4	812.3	676.2	136.09	5.969		
17,005.0	8,958.4	18,118.5	9,762.3	63.7	65.5	173.64	-7,901.8	-359.5	812.3	676.1	136.17	5.965		
17,100.0	8,958.5	18,213.5	9,762.4	64.5	66.2	173.64	-7,996.8	-360.3	812.3	674.6	137.61	5.903		
17,195.0	8,958.7	18,308.5	9,762.5	65.2	66.9	173.64	-8,091.8	-361.2	812.2	673.1	139.05	5.841		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	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	
17,200.0	8,958.7	18,313.5	9,762.5	65.2	66.9	173.64	-8,096.8	-361.2	812.2	673.1	139.13	5.838		
17,290.0	8,958.8	18,403.5	9,762.5	65.9	67.6	173.64	-8,186.8	-362.0	812.1	671.6	140.50	5.780		
17,300.0	8,958.8	18,413.5	9,762.6	65.9	67.7	173.64	-8,196.8	-362.1	812.1	671.5	140.65	5.774		
17,385.0	8,959.0	18,498.5	9,762.6	66.6	68.3	173.64	-8,281.7	-362.8	812.1	670.1	141.94	5.721		
17,400.0	8,959.0	18,513.5	9,762.6	66.7	68.4	173.64	-8,296.7	-363.0	812.0	669.9	142.17	5.712		
17,480.0	8,959.1	18,593.5	9,762.7	67.3	69.0	173.64	-8,376.7	-363.7	812.0	668.6	143.39	5.663		
17,500.0	8,959.1	18,613.5	9,762.7	67.4	69.2	173.64	-8,396.7	-363.9	812.0	668.3	143.69	5.651		
17,575.0	8,959.2	18,688.5	9,762.8	68.0	69.7	173.64	-8,471.7	-364.5	811.9	667.1	144.83	5.606		
17,600.0	8,959.3	18,713.5	9,762.8	68.2	69.9	173.64	-8,496.7	-364.8	811.9	666.7	145.21	5.591		
17,670.0	8,959.4	18,783.5	9,762.8	68.7	70.4	173.64	-8,566.7	-365.4	811.9	665.6	146.28	5.550		
17,700.0	8,959.4	18,813.5	9,762.9	68.9	70.7	173.64	-8,596.7	-365.6	811.8	665.1	146.74	5.533		
17,765.0	8,959.5	18,878.5	9,762.9	69.4	71.2	173.64	-8,661.7	-366.2	811.8	664.1	147.73	5.495		
17,800.0	8,959.6	18,913.5	9,763.0	69.7	71.4	173.64	-8,696.7	-366.5	811.8	663.5	148.26	5.475		
17,860.0	8,959.7	18,973.5	9,763.0	70.1	71.9	173.64	-8,756.7	-367.1	811.7	662.6	149.18	5.441		
17,900.0	8,959.7	19,013.5	9,763.0	70.4	72.2	173.64	-8,796.7	-367.4	811.7	661.9	149.79	5.419		
17,955.0	8,959.8	19,068.5	9,763.1	70.8	72.6	173.64	-8,851.7	-367.9	811.7	661.0	150.63	5.389		
18,000.0	8,959.9	19,113.5	9,763.1	71.2	72.9	173.64	-8,896.7	-368.3	811.6	660.3	151.31	5.364		
18,050.0	8,959.9	19,163.5	9,763.1	71.6	73.3	173.64	-8,946.7	-368.7	811.6	659.5	152.08	5.337		
18,100.0	8,960.0	19,213.5	9,763.2	71.9	73.7	173.64	-8,996.7	-369.2	811.6	658.7	152.84	5.310		
18,145.0	8,960.1	19,258.5	9,763.2	72.3	74.0	173.64	-9,041.7	-369.6	811.5	658.0	153.53	5.286		
18,200.0	8,960.2	19,313.5	9,763.3	72.7	74.4	173.64	-9,096.7	-370.1	811.5	657.1	154.37	5.257		
18,240.0	8,960.2	19,353.5	9,763.3	73.0	74.7	173.64	-9,136.7	-370.4	811.5	656.5	154.98	5.236		
18,300.0	8,960.3	19,413.5	9,763.3	73.4	75.2	173.64	-9,196.7	-371.0	811.4	655.5	155.90	5.205		
18,335.0	8,960.4	19,448.5	9,763.4	73.7	75.4	173.64	-9,231.7	-371.3	811.4	655.0	156.43	5.187		
18,400.0	8,960.5	19,513.5	9,763.4	74.2	75.9	173.64	-9,296.7	-371.9	811.4	653.9	157.43	5.154		
18,430.0	8,960.5	19,543.5	9,763.5	74.4	76.1	173.64	-9,326.7	-372.1	811.3	653.5	157.89	5.139		
18,500.0	8,960.6	19,613.5	9,763.5	74.9	76.7	173.64	-9,396.7	-372.7	811.3	652.3	158.96	5.104		
18,525.0	8,960.6	19,638.5	9,763.5	75.1	76.8	173.64	-9,421.7	-373.0	811.3	651.9	159.34	5.091		
18,600.0	8,960.8	19,713.5	9,763.6	75.7	77.4	173.64	-9,496.7	-373.6	811.2	650.7	160.49	5.055		
18,620.0	8,960.8	19,733.5	9,763.6	75.8	77.6	173.64	-9,516.7	-373.8	811.2	650.4	160.80	5.045		
18,700.0	8,960.9	19,813.5	9,763.7	76.4	78.2	173.64	-9,596.7	-374.5	811.2	649.1	162.02	5.006		
18,715.0	8,960.9	19,828.5	9,763.7	76.5	78.3	173.64	-9,611.7	-374.6	811.1	648.9	162.25	4.999		
18,800.0	8,961.1	19,913.5	9,763.7	77.2	78.9	173.63	-9,696.7	-375.4	811.1	647.5	163.55	4.959		
18,810.0	8,961.1	19,923.5	9,763.8	77.3	79.0	173.63	-9,706.7	-375.5	811.1	647.4	163.71	4.954		
18,900.0	8,961.2	20,013.5	9,763.8	77.9	79.7	173.63	-9,796.7	-376.3	811.0	645.9	165.09	4.913		
18,905.0	8,961.2	20,018.5	9,763.8	78.0	79.7	173.63	-9,801.7	-376.3	811.0	645.9	165.16	4.910		
19,000.0	8,961.3	20,113.5	9,763.9	78.7	80.4	173.63	-9,896.7	-377.2	811.0	644.3	166.62	4.867		
19,095.0	8,961.5	20,208.5	9,764.0	79.4	81.1	173.63	-9,991.7	-378.0	810.9	642.8	168.08	4.824		
19,100.0	8,961.5	20,213.5	9,764.0	79.4	81.2	173.63	-9,996.7	-378.1	810.9	642.7	168.16	4.822		
19,190.0	8,961.6	20,303.5	9,764.1	80.1	81.8	173.63	-10,086.7	-378.9	810.8	641.3	169.54	4.783		
19,200.0	8,961.6	20,313.5	9,764.1	80.2	81.9	173.63	-10,096.7	-379.0	810.8	641.1	169.69	4.778		
19,285.0	8,961.8	20,398.5	9,764.1	80.8	82.5	173.63	-10,181.7	-379.7	810.8	639.8	171.00	4.741		
19,300.0	8,961.8	20,413.5	9,764.1	80.9	82.7	173.63	-10,196.7	-379.8	810.7	639.5	171.23	4.735		
19,380.0	8,961.9	20,493.5	9,764.2	81.5	83.3	173.63	-10,276.7	-380.5	810.7	638.2	172.46	4.701		
19,400.0	8,961.9	20,513.5	9,764.2	81.7	83.4	173.63	-10,296.7	-380.7	810.7	637.9	172.76	4.692		
19,475.0	8,962.1	20,588.5	9,764.3	82.3	84.0	173.63	-10,371.7	-381.4	810.6	636.7	173.92	4.661		
19,500.0	8,962.1	20,613.5	9,764.3	82.4	84.2	173.63	-10,396.7	-381.6	810.6	636.3	174.30	4.651		
19,570.0	8,962.2	20,683.5	9,764.4	83.0	84.7	173.63	-10,466.7	-382.2	810.6	635.2	175.38	4.622		
19,600.0	8,962.2	20,713.5	9,764.4	83.2	84.9	173.63	-10,496.7	-382.5	810.5	634.7	175.84	4.610		
19,665.0	8,962.3	20,778.5	9,764.4	83.7	85.4	173.63	-10,561.7	-383.1	810.5	633.7	176.84	4.583		
19,700.0	8,962.4	20,813.5	9,764.5	83.9	85.7	173.63	-10,596.7	-383.4	810.5	633.1	177.38	4.569		

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	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:												
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)
								+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation Factor
												Warning
19,760.0	8,962.5	20,873.5	9,764.5	84.4	86.1	173.63	-10,656.7	-383.9	810.4	632.1	178.30	4.545
19,800.0	8,962.5	20,913.5	9,764.5	84.7	86.4	173.63	-10,696.7	-384.3	810.4	631.5	178.92	4.530
19,855.0	8,962.6	20,968.5	9,764.6	85.1	86.8	173.63	-10,751.6	-384.8	810.4	630.6	179.76	4.508
19,900.0	8,962.7	21,013.5	9,764.6	85.5	87.2	173.63	-10,796.6	-385.2	810.3	629.9	180.46	4.491
19,950.0	8,962.8	21,063.5	9,764.7	85.8	87.5	173.63	-10,846.6	-385.6	810.3	629.1	181.23	4.471
20,000.0	8,962.8	21,113.5	9,764.7	86.2	87.9	173.63	-10,896.6	-386.0	810.3	628.3	182.00	4.452
20,045.0	8,962.9	21,158.5	9,764.7	86.5	88.3	173.63	-10,941.6	-386.4	810.2	627.6	182.69	4.435
20,100.0	8,963.0	21,213.5	9,764.8	87.0	88.7	173.63	-10,996.6	-386.9	810.2	626.7	183.54	4.414
20,140.0	8,963.0	21,253.5	9,764.8	87.3	89.0	173.63	-11,036.6	-387.3	810.2	626.0	184.15	4.399
20,200.0	8,963.1	21,313.5	9,764.9	87.7	89.4	173.63	-11,096.6	-387.8	810.1	625.1	185.08	4.377
20,235.0	8,963.2	21,348.5	9,764.9	88.0	89.7	173.63	-11,131.6	-388.1	810.1	624.5	185.62	4.364
20,300.0	8,963.3	21,413.5	9,764.9	88.5	90.2	173.63	-11,196.6	-388.7	810.1	623.4	186.62	4.341
20,330.0	8,963.3	21,443.5	9,765.0	88.7	90.4	173.63	-11,226.6	-389.0	810.0	623.0	187.08	4.330
20,400.0	8,963.4	21,513.5	9,765.0	89.2	90.9	173.63	-11,296.6	-389.6	810.0	621.8	188.16	4.305
20,425.0	8,963.5	21,538.5	9,765.0	89.4	91.1	173.63	-11,321.6	-389.8	810.0	621.4	188.55	4.296
20,500.0	8,963.6	21,613.5	9,765.1	90.0	91.7	173.63	-11,396.6	-390.5	809.9	620.2	189.70	4.269
20,520.0	8,963.6	21,633.5	9,765.1	90.1	91.8	173.63	-11,416.6	-390.7	809.9	619.9	190.01	4.262
20,600.0	8,963.7	21,713.5	9,765.2	90.7	92.4	173.63	-11,496.6	-391.4	809.9	618.6	191.24	4.235
20,615.0	8,963.7	21,728.5	9,765.2	90.8	92.6	173.63	-11,511.6	-391.5	809.9	618.4	191.48	4.230
20,700.0	8,963.9	21,813.5	9,765.2	91.5	93.2	173.62	-11,596.6	-392.3	809.8	617.0	192.79	4.200
20,710.0	8,963.9	21,823.5	9,765.3	91.6	93.3	173.62	-11,606.6	-392.3	809.8	616.8	192.94	4.197
20,800.0	8,964.0	21,913.5	9,765.3	92.2	93.9	173.62	-11,696.6	-393.1	809.7	615.4	194.33	4.167
20,805.0	8,964.0	21,918.5	9,765.3	92.3	94.0	173.62	-11,701.6	-393.2	809.7	615.3	194.41	4.165
20,900.0	8,964.2	22,013.5	9,765.4	93.0	94.7	173.62	-11,796.6	-394.0	809.7	613.8	195.88	4.134
20,995.0	8,964.3	22,108.5	9,765.5	93.7	95.4	173.62	-11,891.6	-394.9	809.6	612.2	197.34	4.102
21,000.0	8,964.3	22,113.5	9,765.5	93.8	95.5	173.62	-11,896.6	-394.9	809.6	612.2	197.42	4.101
21,090.0	8,964.4	22,203.5	9,765.6	94.4	96.1	173.62	-11,986.6	-395.7	809.5	610.7	198.81	4.072
21,100.0	8,964.5	22,213.5	9,765.6	94.5	96.2	173.62	-11,996.6	-395.8	809.5	610.6	198.96	4.069
21,185.0	8,964.6	22,298.5	9,765.6	95.2	96.9	173.62	-12,081.6	-396.6	809.5	609.2	200.28	4.042
21,200.0	8,964.6	22,313.5	9,765.6	95.3	97.0	173.62	-12,096.6	-396.7	809.5	608.9	200.51	4.037
21,280.0	8,964.7	22,393.5	9,765.7	95.9	97.6	173.62	-12,176.6	-397.4	809.4	607.6	201.75	4.012
21,300.0	8,964.8	22,413.5	9,765.7	96.0	97.7	173.62	-12,196.6	-397.6	809.4	607.3	202.05	4.006
21,375.0	8,964.9	22,488.5	9,765.8	96.6	98.3	173.62	-12,271.6	-398.2	809.3	606.1	203.21	3.983
21,400.0	8,964.9	22,513.5	9,765.8	96.8	98.5	173.62	-12,296.6	-398.5	809.3	605.7	203.60	3.975
21,470.0	8,965.0	22,583.5	9,765.9	97.3	99.0	173.62	-12,366.6	-399.1	809.3	604.6	204.68	3.954
21,500.0	8,965.0	22,613.5	9,765.9	97.5	99.2	173.62	-12,396.6	-399.4	809.2	604.1	205.15	3.945
21,565.0	8,965.1	22,678.5	9,765.9	98.0	99.7	173.62	-12,461.6	-399.9	809.2	603.0	206.15	3.925
21,600.0	8,965.2	22,713.5	9,766.0	98.3	100.0	173.62	-12,496.6	-400.2	809.2	602.5	206.69	3.915
21,660.0	8,965.3	22,773.5	9,766.0	98.7	100.4	173.62	-12,556.6	-400.8	809.1	601.5	207.62	3.897
21,700.0	8,965.3	22,813.5	9,766.0	99.0	100.7	173.62	-12,596.6	-401.1	809.1	600.9	208.24	3.885
21,755.0	8,965.4	22,868.5	9,766.1	99.5	101.2	173.62	-12,651.6	-401.6	809.1	600.0	209.09	3.869
21,800.0	8,965.5	22,913.5	9,766.1	99.8	101.5	173.62	-12,696.6	-402.0	809.0	599.3	209.79	3.856
21,850.0	8,965.6	22,963.5	9,766.2	100.2	101.9	173.62	-12,746.6	-402.5	809.0	598.4	210.56	3.842
21,900.0	8,965.6	23,013.5	9,766.2	100.6	102.3	173.62	-12,796.6	-402.9	809.0	597.6	211.33	3.828
21,945.0	8,965.7	23,058.5	9,766.2	100.9	102.6	173.62	-12,841.6	-403.3	808.9	596.9	212.03	3.815
22,000.0	8,965.8	23,113.5	9,766.3	101.3	103.0	173.62	-12,896.6	-403.8	808.9	596.0	212.88	3.800
22,040.0	8,965.8	23,153.5	9,766.3	101.6	103.3	173.62	-12,936.6	-404.1	808.9	595.4	213.50	3.789
22,100.0	8,965.9	23,213.5	9,766.4	102.1	103.8	173.62	-12,996.6	-404.7	808.8	594.4	214.43	3.772
22,135.0	8,966.0	23,248.5	9,766.4	102.3	104.0	173.62	-13,031.6	-405.0	808.8	593.8	214.97	3.762
22,200.0	8,966.1	23,313.5	9,766.4	102.8	104.5	173.62	-13,096.6	-405.6	808.8	592.8	215.98	3.745
22,230.0	8,966.1	23,343.5	9,766.5	103.1	104.7	173.62	-13,126.6	-405.8	808.7	592.3	216.44	3.737

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	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)	Minimum Separation (usft)	Separation Factor
22,300.0	8,966.2	23,413.5	9,766.5	103.6	105.3	173.62	173.62	-13,196.6	-406.5	808.7	591.2	217.53
22,325.0	8,966.3	23,438.5	9,766.5	103.8	105.5	173.62	173.62	-13,221.6	-406.7	808.7	590.8	217.92
22,400.0	8,966.4	23,513.5	9,766.6	104.3	106.0	173.62	173.62	-13,296.5	-407.3	808.6	589.6	219.08
22,420.0	8,966.4	23,533.5	9,766.6	104.5	106.2	173.62	173.62	-13,316.5	-407.5	808.6	589.2	219.39
22,500.0	8,966.5	23,613.5	9,766.7	105.1	106.8	173.62	173.62	-13,396.5	-408.2	808.6	587.9	220.63
22,515.0	8,966.6	23,628.5	9,766.7	105.2	106.9	173.62	173.62	-13,411.5	-408.4	808.6	587.7	220.86
22,600.0	8,966.7	23,713.5	9,766.8	105.9	107.5	173.62	173.62	-13,496.5	-409.1	808.5	586.3	222.18
22,610.0	8,966.7	23,723.5	9,766.8	105.9	107.6	173.62	173.62	-13,506.5	-409.2	808.5	586.2	222.33
22,700.0	8,966.8	23,813.5	9,766.8	106.6	108.3	173.61	173.61	-13,596.5	-410.0	808.4	584.7	223.73
22,705.0	8,966.8	23,818.5	9,766.8	106.6	108.3	173.61	173.61	-13,601.5	-410.0	808.4	584.6	223.80
22,800.0	8,967.0	23,913.5	9,766.9	107.4	109.1	173.61	173.61	-13,696.5	-410.9	808.4	583.1	225.28
22,895.0	8,967.1	24,008.5	9,767.0	108.1	109.8	173.61	173.61	-13,791.5	-411.7	808.3	581.5	226.75
22,900.0	8,967.1	24,013.5	9,767.0	108.1	109.8	173.61	173.61	-13,796.5	-411.8	808.3	581.5	226.83
22,990.0	8,967.3	24,103.5	9,767.1	108.8	110.5	173.61	173.61	-13,886.5	-412.6	808.2	580.0	228.22
23,000.0	8,967.3	24,113.5	9,767.1	108.9	110.6	173.61	173.61	-13,896.5	-412.7	808.2	579.8	228.38
23,085.0	8,967.4	24,198.5	9,767.1	109.5	111.2	173.61	173.61	-13,981.5	-413.4	808.2	578.5	229.70
23,100.0	8,967.4	24,213.5	9,767.2	109.6	111.3	173.61	173.61	-13,996.5	-413.6	808.2	578.2	229.93
23,180.0	8,967.5	24,293.5	9,767.2	110.2	111.9	173.61	173.61	-14,076.5	-414.3	808.1	576.9	231.17
23,200.0	8,967.6	24,313.5	9,767.2	110.4	112.1	173.61	173.61	-14,096.5	-414.4	808.1	576.6	231.48
23,275.0	8,967.7	24,388.5	9,767.3	111.0	112.7	173.61	173.61	-14,171.5	-415.1	808.0	575.4	232.64
23,300.0	8,967.7	24,413.5	9,767.3	111.2	112.8	173.61	173.61	-14,196.5	-415.3	808.0	575.0	233.03
23,370.0	8,967.8	24,483.5	9,767.4	111.7	113.4	173.61	173.61	-14,266.5	-415.9	808.0	573.8	234.12
23,400.0	8,967.9	24,513.5	9,767.4	111.9	113.6	173.61	173.61	-14,296.5	-416.2	807.9	573.4	234.58
23,465.0	8,968.0	24,578.5	9,767.4	112.4	114.1	173.61	173.61	-14,361.5	-416.8	807.9	572.3	235.59
23,500.0	8,968.0	24,613.5	9,767.5	112.7	114.4	173.61	173.61	-14,396.5	-417.1	807.9	571.7	236.13
23,560.0	8,968.1	24,673.5	9,767.5	113.1	114.8	173.61	173.61	-14,456.5	-417.6	807.8	570.8	237.07
23,600.0	8,968.2	24,713.5	9,767.5	113.4	115.1	173.61	173.61	-14,496.5	-418.0	807.8	570.1	237.69
23,655.0	8,968.2	24,768.5	9,767.6	113.8	115.5	173.61	173.61	-14,551.5	-418.5	807.8	569.2	238.54
23,700.0	8,968.3	24,813.5	9,767.6	114.2	115.9	173.61	173.61	-14,596.5	-418.9	807.7	568.5	239.24
23,750.0	8,968.4	24,863.5	9,767.7	114.6	116.3	173.61	173.61	-14,646.5	-419.3	807.7	567.7	240.02
23,800.0	8,968.5	24,913.5	9,767.7	114.9	116.6	173.61	173.61	-14,696.5	-419.8	807.7	566.9	240.79
23,845.0	8,968.5	24,958.5	9,767.7	115.3	117.0	173.61	173.61	-14,741.5	-420.2	807.6	566.2	241.49
23,900.0	8,968.6	25,013.5	9,767.8	115.7	117.4	173.61	173.61	-14,796.5	-420.6	807.6	565.3	242.34
23,940.0	8,968.7	25,053.5	9,767.8	116.0	117.7	173.61	173.61	-14,836.5	-421.0	807.6	564.6	242.97
24,000.0	8,968.7	25,113.5	9,767.9	116.5	118.1	173.61	173.61	-14,896.5	-421.5	807.5	563.6	243.90
24,035.0	8,968.8	25,148.5	9,767.9	116.7	118.4	173.61	173.61	-14,931.5	-421.8	807.5	563.1	244.44
24,040.2	8,968.8	25,153.7	9,767.9	116.8	118.5	173.61	173.61	-14,936.7	-421.9	807.5	563.0	244.52
24,100.0	8,968.9	25,213.5	9,767.9	117.2	118.9	173.61	173.61	-14,996.5	-422.4	807.5	562.0	245.45
24,130.0	8,968.9	25,243.5	9,768.0	117.4	119.1	173.61	173.61	-15,026.5	-422.7	807.4	561.5	245.91
24,170.2	8,969.0	25,283.7	9,768.0	117.8	119.4	173.61	173.61	-15,066.7	-423.0	807.4	560.9	246.54
24,170.7	8,969.0	25,284.3	9,768.0	117.8	119.4	173.61	173.61	-15,067.2	-423.1	807.4	560.9	246.55

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	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 #806H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9308-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)		
0.0	0.0	0.0	0.0	3.0	3.0	-22.08	148.9	-60.4	160.7				
95.0	95.0	91.8	91.8	3.0	3.0	-22.08	148.9	-60.4	160.7	154.6	6.04	26.625	
100.0	100.0	96.8	96.8	3.0	3.0	-22.08	148.9	-60.4	160.7	154.6	6.04	26.604	
190.0	190.0	186.8	186.8	3.1	3.1	-22.08	148.9	-60.4	160.7	154.4	6.25	25.701	
200.0	200.0	196.8	196.8	3.1	3.1	-22.08	148.9	-60.4	160.7	154.4	6.29	25.560	
285.0	285.0	281.8	281.8	3.3	3.2	-22.08	148.9	-60.4	160.7	154.2	6.49	24.741	
300.0	300.0	296.8	296.8	3.3	3.3	-22.08	148.9	-60.4	160.7	154.1	6.54	24.585	
380.0	380.0	376.8	376.8	3.4	3.4	-22.08	148.9	-60.4	160.7	154.0	6.73	23.878	
400.0	400.0	396.8	396.8	3.4	3.4	-22.08	148.9	-60.4	160.7	153.9	6.78	23.695	
475.0	475.0	471.8	471.8	3.5	3.5	-22.08	148.9	-60.4	160.7	153.7	6.96	23.082	
500.0	500.0	496.8	496.8	3.5	3.5	-22.08	148.9	-60.4	160.7	153.7	7.02	22.875	
570.0	570.0	566.8	566.8	3.6	3.6	-22.08	148.9	-60.4	160.7	153.5	7.19	22.345	
600.0	600.0	596.8	596.8	3.6	3.6	-22.08	148.9	-60.4	160.7	153.4	7.27	22.117	
665.0	665.0	661.8	661.8	3.7	3.7	-22.08	148.9	-60.4	160.7	153.3	7.42	21.659	
700.0	700.0	696.8	696.8	3.8	3.8	-22.08	148.9	-60.4	160.7	153.2	7.50	21.413	
760.0	760.0	756.8	756.8	3.8	3.8	-22.08	148.9	-60.4	160.7	153.0	7.64	21.019	
800.0	800.0	796.8	796.8	3.9	3.9	-22.08	148.9	-60.4	160.7	152.9	7.74	20.758	
855.0	855.0	851.8	851.8	4.0	3.9	-22.08	148.9	-60.4	160.7	152.8	7.87	20.420	
900.0	900.0	896.8	896.8	4.0	4.0	-22.08	148.9	-60.4	160.7	152.7	7.98	20.146	
950.0	950.0	946.8	946.8	4.1	4.1	-22.08	148.9	-60.4	160.7	152.6	8.09	19.857	
1,000.0	1,000.0	996.8	996.8	4.1	4.1	-22.08	148.9	-60.4	160.7	152.5	8.21	19.572	
1,045.0	1,045.0	1,041.8	1,041.8	4.2	4.2	-22.08	148.9	-60.4	160.7	152.4	8.31	19.328	
1,100.0	1,100.0	1,096.8	1,096.8	4.2	4.2	-22.08	148.9	-60.4	160.7	152.2	8.44	19.033	
1,140.0	1,140.0	1,136.8	1,136.8	4.3	4.3	-22.08	148.9	-60.4	160.7	152.2	8.53	18.829	
1,200.0	1,200.0	1,196.8	1,196.8	4.4	4.4	-22.08	148.9	-60.4	160.7	152.0	8.67	18.526	
1,235.0	1,235.0	1,231.8	1,231.8	4.4	4.4	-22.08	148.9	-60.4	160.7	151.9	8.75	18.357	
1,300.0	1,300.0	1,296.8	1,296.8	4.5	4.5	-22.08	148.9	-60.4	160.7	151.8	8.90	18.048	
1,330.0	1,330.0	1,326.8	1,326.8	4.5	4.5	-22.08	148.9	-60.4	160.7	151.7	8.97	17.911	
1,400.0	1,400.0	1,396.8	1,396.8	4.6	4.6	-22.08	148.9	-60.4	160.7	151.6	9.13	17.596	
1,425.0	1,425.0	1,421.8	1,421.8	4.6	4.6	-22.08	148.9	-60.4	160.7	151.5	9.19	17.487	
1,500.0	1,500.0	1,496.8	1,496.8	4.7	4.7	-22.08	148.9	-60.4	160.7	151.3	9.36	17.167	
1,520.0	1,520.0	1,516.2	1,516.2	4.8	4.7	5.74	148.9	-60.4	160.6	151.2	9.42	17.057	
1,600.0	1,600.0	1,593.0	1,593.0	4.9	4.8	5.43	149.5	-61.8	160.1	150.4	9.70	16.510	
1,615.0	1,615.0	1,607.5	1,607.4	4.9	4.9	5.33	149.7	-62.2	159.9	150.1	9.76	16.381	
1,700.0	1,699.8	1,689.1	1,689.0	5.2	5.0	4.42	151.4	-66.1	158.4	148.3	10.15	15.604	
1,710.0	1,709.8	1,700.0	1,699.8	5.2	5.0	4.26	151.7	-66.8	158.2	148.0	10.21	15.502	
1,800.0	1,799.5	1,785.0	1,784.6	5.4	5.3	2.68	154.6	-73.4	155.9	145.3	10.64	14.656	
1,805.0	1,804.4	1,789.8	1,789.3	5.4	5.3	2.57	154.8	-73.8	155.7	145.1	10.66	14.607	
1,900.0	1,898.7	1,880.8	1,879.6	5.7	5.5	0.15	159.1	-83.5	152.6	141.5	11.15	13.685	
1,925.1	1,923.5	1,904.7	1,903.4	5.8	5.6	-0.62	160.4	-86.5	151.7	140.5	11.24	13.495	
1,995.0	1,992.7	1,971.5	1,969.3	5.9	5.8	-3.04	164.5	-95.8	150.0	138.4	11.55	12.988	
2,000.0	1,997.6	1,976.2	1,974.0	5.9	5.8	-3.23	164.8	-96.5	149.9	138.3	11.57	12.958	
2,033.8	2,031.0	2,008.4	2,005.8	6.0	5.9	-4.55	167.0	-101.6	149.7	138.0	11.74	12.753 CC, ES	
2,090.0	2,086.6	2,061.9	2,058.3	6.1	6.1	-6.90	171.0	-110.7	150.3	138.2	12.03	12.492	
2,100.0	2,096.5	2,071.4	2,067.6	6.2	6.2	-7.33	171.8	-112.4	150.5	138.4	12.08	12.457	
2,185.0	2,180.6	2,151.9	2,146.3	6.4	6.4	-11.18	178.6	-128.0	154.0	141.4	12.54	12.274	
2,200.0	2,195.4	2,166.0	2,160.1	6.4	6.5	-11.88	179.9	-131.0	154.9	142.3	12.63	12.266	
2,280.0	2,274.5	2,243.4	2,235.2	6.7	6.7	-15.66	187.4	-147.9	161.0	147.9	13.08	12.309	
2,300.0	2,294.3	2,263.2	2,254.3	6.7	6.8	-16.59	189.3	-152.3	162.7	149.5	13.20	12.331	
2,375.0	2,368.5	2,337.2	2,326.2	7.0	7.0	-19.90	196.5	-168.7	169.4	155.8	13.64	12.425	
2,400.0	2,393.2	2,361.9	2,350.2	7.0	7.1	-20.95	198.9	-174.1	171.8	158.0	13.79	12.463	

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	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 #806H - OWB - PWP1														Offset Site Error: 0.0 usft	
Survey Program: Reference		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9308-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		
2,470.0	2,462.5	2,431.1	2,417.3	7.3	7.4	-23.72	205.7	-189.5	178.7	164.5	14.21	12.579			
2,500.0	2,492.1	2,460.7	2,446.0	7.4	7.5	-24.85	208.6	-196.0	181.8	167.4	14.39	12.634			
2,565.0	2,556.4	2,524.9	2,508.3	7.6	7.7	-27.16	214.8	-210.2	188.7	173.9	14.79	12.761			
2,600.0	2,591.0	2,559.5	2,541.8	7.7	7.8	-28.34	218.2	-217.9	192.5	177.5	15.00	12.834			
2,660.0	2,650.4	2,618.7	2,599.3	7.9	8.0	-30.25	224.0	-231.0	199.3	183.9	15.37	12.965			
2,700.0	2,689.9	2,658.2	2,637.7	8.1	8.2	-31.46	227.8	-239.8	203.9	188.3	15.62	13.056			
2,755.0	2,744.3	2,712.5	2,690.4	8.2	8.4	-33.03	233.1	-251.8	210.4	194.4	15.96	13.184			
2,800.0	2,788.8	2,757.0	2,733.5	8.4	8.6	-34.24	237.4	-261.6	215.8	199.6	16.24	13.291			
2,850.0	2,838.3	2,806.4	2,781.4	8.6	8.7	-35.52	242.2	-272.6	222.0	205.4	16.55	13.412			
2,900.0	2,887.7	2,855.8	2,829.3	8.8	8.9	-36.73	247.1	-283.5	228.2	211.3	16.86	13.535			
2,945.0	2,932.2	2,900.2	2,872.5	8.9	9.1	-37.76	251.4	-293.3	233.9	216.8	17.14	13.647			
3,000.0	2,986.6	2,954.5	2,925.2	9.1	9.3	-38.96	256.7	-305.4	241.0	223.5	17.48	13.783			
3,040.0	3,026.2	2,994.0	2,963.5	9.3	9.5	-39.79	260.5	-314.1	246.1	228.4	17.73	13.883			
3,100.0	3,085.5	3,053.3	3,021.0	9.5	9.7	-40.97	266.3	-327.2	254.0	235.9	18.10	14.033			
3,135.0	3,120.1	3,087.8	3,054.5	9.6	9.9	-41.62	269.7	-334.9	258.7	240.4	18.32	14.120			
3,200.0	3,184.4	3,152.0	3,116.8	9.9	10.2	-42.78	275.9	-349.1	267.4	248.7	18.72	14.281			
3,230.0	3,214.1	3,181.7	3,145.6	10.0	10.3	-43.28	278.8	-355.7	271.4	252.5	18.91	14.355			
3,300.0	3,283.3	3,250.8	3,212.7	10.3	10.6	-44.41	285.5	-371.0	281.0	261.6	19.34	14.527			
3,325.0	3,308.1	3,275.5	3,236.6	10.4	10.7	-44.80	287.9	-376.4	284.4	264.9	19.50	14.587			
3,400.0	3,382.2	3,349.6	3,308.5	10.7	11.0	-45.90	295.2	-392.8	294.8	274.8	19.96	14.768			
3,420.0	3,402.0	3,369.3	3,327.7	10.7	11.1	-46.18	297.1	-397.2	297.6	277.5	20.09	14.815			
3,500.0	3,481.1	3,448.3	3,404.3	11.1	11.4	-47.25	304.8	-414.7	308.8	288.2	20.58	15.003			
3,515.0	3,496.0	3,463.2	3,418.7	11.1	11.5	-47.44	306.2	-418.0	310.9	290.2	20.67	15.038			
3,600.0	3,580.0	3,547.1	3,500.1	11.5	11.9	-48.48	314.4	-436.6	322.9	301.7	21.20	15.233			
3,610.0	3,589.9	3,557.0	3,509.7	11.5	11.9	-48.60	315.4	-438.8	324.3	303.1	21.26	15.256			
3,700.0	3,678.9	3,645.9	3,596.0	11.9	12.3	-49.62	324.0	-458.5	337.2	315.4	21.81	15.457			
3,705.0	3,683.9	3,650.8	3,600.8	11.9	12.3	-49.67	324.5	-459.6	337.9	316.0	21.84	15.468			
3,800.0	3,777.8	3,744.6	3,691.8	12.3	12.7	-50.66	333.6	-480.3	351.6	329.1	22.43	15.674			
3,895.0	3,871.8	3,838.5	3,782.9	12.6	13.2	-51.57	342.8	-501.1	365.3	342.3	23.01	15.874			
3,900.0	3,876.7	3,843.4	3,787.6	12.7	13.2	-51.61	343.3	-502.2	366.1	343.0	23.05	15.884			
3,990.0	3,965.8	3,932.3	3,873.9	13.0	13.6	-52.41	351.9	-521.9	379.2	355.6	23.60	16.067			
4,000.0	3,975.6	3,942.2	3,883.5	13.1	13.6	-52.50	352.9	-524.1	380.6	357.0	23.66	16.088			
4,085.0	4,059.7	4,026.1	3,964.9	13.4	14.0	-53.20	361.1	-542.7	393.1	368.9	24.18	16.255			
4,100.0	4,074.5	4,040.9	3,979.3	13.5	14.1	-53.32	362.5	-545.9	395.3	371.0	24.28	16.284			
4,127.7	4,101.9	4,068.3	4,005.8	13.6	14.2	-53.53	365.2	-552.0	399.4	375.0	24.43	16.348			
4,180.0	4,153.7	4,119.9	4,056.0	13.8	14.4	-53.97	370.2	-563.4	407.2	382.5	24.74	16.459			
4,200.0	4,173.5	4,139.7	4,075.1	13.9	14.5	-54.12	372.1	-567.8	410.3	385.5	24.86	16.503			
4,275.0	4,247.9	4,213.7	4,146.9	14.2	14.9	-54.59	379.3	-584.2	422.2	396.9	25.34	16.663			
4,300.0	4,272.7	4,238.3	4,170.8	14.3	15.0	-54.72	381.7	-589.6	426.3	400.8	25.50	16.718			
4,370.0	4,342.3	4,307.3	4,237.8	14.5	15.3	-55.02	388.5	-604.9	438.2	412.2	25.96	16.878			
4,400.0	4,372.1	4,336.8	4,266.4	14.6	15.4	-55.11	391.3	-611.5	443.4	417.2	26.16	16.948			
4,465.0	4,436.8	4,400.8	4,328.5	14.9	15.7	-55.27	397.6	-625.6	455.0	428.4	26.60	17.106			
4,500.0	4,471.7	4,435.2	4,361.9	15.0	15.9	-55.32	400.9	-633.2	461.4	434.6	26.84	17.191			
4,560.0	4,531.5	4,494.1	4,419.0	15.2	16.2	-55.36	406.7	-646.3	472.7	445.4	27.25	17.344			
4,600.0	4,571.4	4,533.4	4,457.1	15.4	16.3	-55.35	410.5	-655.0	480.4	452.9	27.54	17.446			
4,655.0	4,626.3	4,587.3	4,509.4	15.6	16.6	-55.30	415.7	-666.9	491.3	463.3	27.92	17.593			
4,700.0	4,671.2	4,631.3	4,552.2	15.7	16.8	-55.23	420.0	-676.7	500.4	472.1	28.25	17.713			
4,750.0	4,721.2	4,680.2	4,599.6	15.9	17.0	-55.13	424.8	-687.5	510.7	482.1	28.61	17.853			
4,800.0	4,771.1	4,729.0	4,647.0	16.0	17.3	-54.99	429.5	-698.3	521.3	492.4	28.97	17.995			
4,845.0	4,816.1	4,772.9	4,689.5	16.2	17.5	-54.84	433.8	-708.0	531.1	501.8	29.30	18.128			
4,900.0	4,871.1	4,826.5	4,741.5	16.3	17.7	-54.63	439.0	-719.9	543.3	513.6	29.70	18.293			

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	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 #806H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9308-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					Minimum	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Separation (usft)	Factor		
4,940.0	4,911.1	4,865.3	4,779.2	16.4	17.9	-54.46	442.8	-728.5	552.4	522.5	29.97	18.433		
4,977.9	4,949.0	4,902.1	4,814.9	16.4	18.1	-82.11	446.4	-736.6	561.2	531.0	30.22	18.567		
5,000.0	4,971.1	4,923.6	4,835.7	16.4	18.2	-81.96	448.5	-741.4	566.3	536.0	30.36	18.656		
5,035.0	5,006.1	4,957.6	4,868.7	16.5	18.3	-81.73	451.8	-748.9	574.5	543.9	30.58	18.785		
5,100.0	5,071.1	5,020.6	4,929.9	16.5	18.6	-81.33	458.0	-762.9	589.7	558.7	31.00	19.023		
5,130.0	5,101.1	5,049.7	4,958.1	16.5	18.8	-81.15	460.8	-769.3	596.7	565.5	31.19	19.132		
5,200.0	5,171.1	5,117.7	5,024.0	16.6	19.1	-80.74	467.4	-784.4	613.1	581.5	31.63	19.383		
5,225.0	5,196.1	5,141.9	5,047.6	16.6	19.2	-80.60	469.8	-789.7	619.0	587.2	31.79	19.471		
5,300.0	5,271.1	5,214.7	5,118.2	16.6	19.5	-80.20	476.9	-805.8	636.6	604.4	32.26	19.734		
5,320.0	5,291.1	5,234.1	5,137.0	16.6	19.6	-80.09	478.8	-810.1	641.3	609.0	32.39	19.803		
5,400.0	5,371.1	5,311.7	5,212.3	16.7	20.0	-79.69	486.3	-827.3	660.2	627.3	32.88	20.076		
5,415.0	5,386.1	5,326.3	5,226.5	16.7	20.1	-79.62	487.7	-830.6	663.7	630.7	32.98	20.127		
5,500.0	5,471.1	5,408.7	5,306.5	16.7	20.5	-79.22	495.8	-848.8	683.8	650.3	33.50	20.410		
5,510.0	5,481.1	5,418.4	5,315.9	16.7	20.5	-79.18	496.7	-851.0	686.1	652.6	33.56	20.443		
5,600.0	5,571.1	5,505.8	5,400.6	16.8	20.9	-78.78	505.2	-870.3	707.4	673.3	34.11	20.736		
5,605.0	5,576.1	5,510.6	5,405.3	16.8	20.9	-78.76	505.7	-871.4	708.6	674.4	34.14	20.752		
5,700.0	5,671.1	5,602.8	5,494.8	16.8	21.4	-78.37	514.7	-891.8	731.1	696.3	34.72	21.054		
5,795.0	5,766.1	5,695.0	5,584.2	16.9	21.8	-78.00	523.7	-912.2	753.6	718.3	35.30	21.349		
5,800.0	5,771.1	5,699.8	5,588.9	16.9	21.8	-77.99	524.1	-913.3	754.8	719.4	35.33	21.364		
5,890.0	5,861.1	5,787.2	5,673.7	17.0	22.3	-77.66	532.6	-932.6	776.1	740.3	35.87	21.637		
5,900.0	5,871.1	5,796.9	5,683.1	17.0	22.3	-77.62	533.6	-934.8	778.5	742.6	35.93	21.667		
5,985.0	5,956.1	5,879.3	5,763.1	17.0	22.7	-77.33	541.6	-953.0	798.7	762.2	36.44	21.918		
6,000.0	5,971.1	5,893.9	5,777.2	17.0	22.8	-77.28	543.0	-956.2	802.3	765.7	36.53	21.961		
6,080.0	6,051.1	5,971.5	5,852.5	17.1	23.1	-77.03	550.6	-973.4	821.3	784.3	37.01	22.192		
6,100.0	6,071.1	5,990.9	5,871.4	17.1	23.2	-76.96	552.5	-977.7	826.0	788.9	37.13	22.249		
6,175.0	6,146.1	6,063.7	5,942.0	17.1	23.6	-76.73	559.6	-993.8	843.9	806.3	37.57	22.460		
6,200.0	6,171.1	6,087.9	5,965.5	17.1	23.7	-76.66	561.9	-999.2	849.8	812.1	37.72	22.529		
6,270.0	6,241.1	6,155.9	6,031.4	17.2	24.0	-76.46	568.6	-1,014.3	866.5	828.4	38.14	22.721		
6,300.0	6,271.1	6,185.0	6,059.7	17.2	24.2	-76.37	571.4	-1,020.7	873.7	835.4	38.31	22.803		
6,365.0	6,336.1	6,248.0	6,120.9	17.2	24.5	-76.20	577.5	-1,034.7	889.2	850.5	38.70	22.977		
6,400.0	6,371.1	6,282.0	6,153.8	17.3	24.6	-76.10	580.8	-1,042.2	897.5	858.6	38.90	23.069		
6,460.0	6,431.1	6,340.2	6,210.3	17.3	24.9	-75.95	586.5	-1,055.1	911.8	872.6	39.26	23.226		
6,500.0	6,471.1	6,379.0	6,248.0	17.3	25.1	-75.85	590.3	-1,063.7	921.4	881.9	39.49	23.330		
6,555.0	6,526.1	6,432.4	6,299.7	17.3	25.4	-75.71	595.5	-1,075.5	934.5	894.7	39.81	23.471		
6,600.0	6,571.1	6,476.1	6,342.1	17.4	25.6	-75.60	599.7	-1,085.2	945.3	905.2	40.08	23.587		
6,650.0	6,621.1	6,547.0	6,411.1	17.4	25.9	-75.44	606.3	-1,100.2	956.7	916.2	40.49	23.627		
6,700.0	6,671.1	6,620.2	6,482.8	17.4	26.3	-75.29	612.4	-1,114.0	966.9	926.0	40.90	23.640		
6,745.0	6,716.1	6,686.8	6,548.2	17.5	26.6	-75.18	617.3	-1,125.1	975.0	933.7	41.24	23.641		
6,800.0	6,771.1	6,768.8	6,629.2	17.5	26.9	-75.06	622.5	-1,136.9	983.5	941.9	41.62	23.631		
6,840.0	6,811.1	6,828.9	6,688.8	17.5	27.2	-74.99	625.7	-1,144.1	988.7	946.9	41.87	23.616		
6,900.0	6,871.1	6,919.6	6,779.0	17.6	27.6	-74.91	629.6	-1,153.0	995.0	952.8	42.20	23.582		
6,935.0	6,906.1	6,972.8	6,832.0	17.6	27.8	-74.87	631.3	-1,156.9	997.8	955.5	42.36	23.558		
7,000.0	6,971.1	7,071.9	6,930.9	17.6	28.2	-74.82	633.5	-1,161.9	1,001.4	958.8	42.59	23.511		
7,030.0	7,001.1	7,117.7	6,976.7	17.6	28.3	-74.81	634.0	-1,163.1	1,002.2	959.6	42.65	23.500		
7,100.0	7,071.1	7,208.9	7,067.9	17.7	28.4	-74.81	634.3	-1,163.7	1,002.7	960.0	42.67	23.500		
7,125.0	7,096.1	7,233.9	7,092.9	17.7	28.4	-74.81	634.3	-1,163.7	1,002.7	960.0	42.69	23.486		
7,200.0	7,171.1	7,308.9	7,167.9	17.7	28.4	-74.81	634.3	-1,163.7	1,002.7	959.9	42.77	23.443		
7,220.0	7,191.1	7,328.9	7,187.9	17.7	28.4	-74.81	634.3	-1,163.7	1,002.7	959.9	42.79	23.432		
7,300.0	7,271.1	7,408.9	7,267.9	17.8	28.4	-74.81	634.3	-1,163.7	1,002.7	959.8	42.87	23.387		
7,315.0	7,286.1	7,423.9	7,282.9	17.8	28.5	-74.81	634.3	-1,163.7	1,002.7	959.8	42.89	23.379		
7,400.0	7,371.1	7,508.9	7,367.9	17.9	28.5	-74.81	634.3	-1,163.7	1,002.7	959.7	42.97	23.331		

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	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 #806H - OWB - PWP1														Offset Site Error: 0.0 usft	
Survey Program: Reference		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9308-r.5 MWD+IFR1+MS						Rule Assigned:		Offset Well Error: 3.0 usft					
Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Warning							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
7,410.0	7,381.1	7,518.9	7,377.9	17.9	28.5	-74.81	634.3	-1,163.7	1,002.7	959.7	42.98	23.326			
7,500.0	7,471.1	7,608.9	7,467.9	17.9	28.5	-74.81	634.3	-1,163.7	1,002.7	959.6	43.08	23.275			
7,505.0	7,476.1	7,613.9	7,472.9	17.9	28.5	-74.81	634.3	-1,163.7	1,002.7	959.6	43.08	23.273			
7,600.0	7,571.1	7,708.9	7,567.9	18.0	28.5	-74.81	634.3	-1,163.7	1,002.7	959.5	43.18	23.220			
7,695.0	7,666.1	7,803.9	7,662.9	18.0	28.6	-74.81	634.3	-1,163.7	1,002.7	959.4	43.28	23.167			
7,700.0	7,671.1	7,808.9	7,667.9	18.0	28.6	-74.81	634.3	-1,163.7	1,002.7	959.4	43.29	23.164			
7,790.0	7,761.1	7,898.9	7,757.9	18.1	28.6	-74.81	634.3	-1,163.7	1,002.7	959.3	43.38	23.114			
7,800.0	7,771.1	7,908.9	7,767.9	18.1	28.6	-74.81	634.3	-1,163.7	1,002.7	959.3	43.39	23.108			
7,885.0	7,856.1	7,993.9	7,852.9	18.2	28.6	-74.81	634.3	-1,163.7	1,002.7	959.2	43.48	23.061			
7,900.0	7,871.1	8,008.9	7,867.9	18.2	28.6	-74.81	634.3	-1,163.7	1,002.7	959.2	43.49	23.053			
7,980.0	7,951.1	8,088.9	7,947.9	18.2	28.7	-74.81	634.3	-1,163.7	1,002.7	959.1	43.58	23.009			
8,000.0	7,971.1	8,108.9	7,967.9	18.2	28.7	-74.81	634.3	-1,163.7	1,002.7	959.1	43.60	22.998			
8,075.0	8,046.1	8,183.9	8,042.9	18.3	28.7	-74.81	634.3	-1,163.7	1,002.7	959.0	43.68	22.956			
8,100.0	8,071.1	8,208.9	8,067.9	18.3	28.7	-74.81	634.3	-1,163.7	1,002.7	958.9	43.70	22.942			
8,170.0	8,141.1	8,278.9	8,137.9	18.3	28.7	-74.81	634.3	-1,163.7	1,002.7	958.9	43.78	22.904			
8,200.0	8,171.1	8,308.9	8,167.9	18.3	28.7	-74.81	634.3	-1,163.7	1,002.7	958.8	43.81	22.887			
8,265.0	8,236.1	8,373.9	8,232.9	18.4	28.8	-74.81	634.3	-1,163.7	1,002.7	958.8	43.88	22.851			
8,300.0	8,271.1	8,408.9	8,267.9	18.4	28.8	-74.81	634.3	-1,163.7	1,002.7	958.7	43.91	22.832			
8,360.0	8,331.1	8,468.9	8,327.9	18.4	28.8	-74.81	634.3	-1,163.7	1,002.7	958.7	43.97	22.802			
8,402.9	8,374.0	8,511.8	8,370.8	18.5	28.8	-74.81	634.3	-1,163.7	1,002.7	958.6	44.01	22.781			
8,450.0	8,421.1	8,558.9	8,417.9	18.5	28.8	104.75	634.3	-1,163.7	1,003.1	959.1	44.06	22.770			
8,455.0	8,426.0	8,563.8	8,422.8	18.5	28.8	104.76	634.3	-1,163.7	1,003.3	959.2	44.06	22.769			
8,500.0	8,470.7	8,608.4	8,467.5	18.6	28.8	104.93	634.3	-1,163.7	1,004.8	960.6	44.14	22.765			
8,550.0	8,519.5	8,657.3	8,516.3	18.6	28.9	105.23	634.3	-1,163.7	1,007.6	963.3	44.25	22.770			
8,600.0	8,567.3	8,705.0	8,564.1	18.7	28.9	105.61	634.3	-1,163.7	1,011.7	967.3	44.40	22.788			
8,645.0	8,609.0	8,746.8	8,605.8	18.7	28.9	105.98	634.3	-1,163.7	1,016.6	972.0	44.55	22.819			
8,650.0	8,613.5	8,751.3	8,610.3	18.7	28.9	106.03	634.3	-1,163.7	1,017.2	972.6	44.57	22.824			
8,700.0	8,658.0	8,795.8	8,654.8	18.8	28.9	106.44	634.3	-1,163.7	1,024.3	979.6	44.76	22.884			
8,740.0	8,692.0	8,829.8	8,688.8	18.9	28.9	106.73	634.3	-1,163.7	1,031.3	986.4	44.93	22.953			
8,750.0	8,700.3	8,838.1	8,697.1	18.9	28.9	106.80	634.3	-1,163.7	1,033.2	988.2	44.97	22.974			
8,800.0	8,740.1	8,877.9	8,736.9	18.9	28.9	107.04	634.3	-1,163.7	1,044.0	998.8	45.20	23.100			
8,835.0	8,766.3	8,904.1	8,763.1	19.0	28.9	107.11	634.3	-1,163.7	1,052.8	1,007.5	45.35	23.214			
8,850.0	8,777.1	8,914.9	8,773.9	19.0	28.9	107.10	634.3	-1,163.7	1,056.9	1,011.5	45.42	23.270			
8,900.0	8,811.1	8,948.9	8,807.9	19.0	29.0	106.93	634.3	-1,163.7	1,072.0	1,026.4	45.64	23.487			
8,930.0	8,829.9	8,967.7	8,826.7	19.1	29.0	106.69	634.3	-1,163.7	1,082.2	1,036.4	45.77	23.643			
8,950.0	8,841.7	8,979.5	8,838.5	19.1	29.0	106.46	634.3	-1,163.7	1,089.4	1,043.6	45.85	23.759			
9,000.0	8,868.8	9,006.6	8,865.6	19.2	29.0	105.64	634.3	-1,163.7	1,109.2	1,063.1	46.05	24.087			
9,025.0	8,880.9	9,018.7	8,877.7	19.2	29.0	105.07	634.3	-1,163.7	1,120.0	1,073.8	46.14	24.272			
9,050.0	8,892.1	9,029.9	8,888.9	19.2	29.0	104.39	634.3	-1,163.7	1,131.3	1,085.1	46.23	24.474			
9,100.0	8,911.4	9,049.2	8,908.2	19.3	29.0	102.66	634.3	-1,163.7	1,155.7	1,109.3	46.38	24.920			
9,120.0	8,918.0	9,055.8	8,914.8	19.3	29.0	101.83	634.3	-1,163.7	1,166.1	1,119.6	46.43	25.115			
9,150.0	8,926.7	9,064.5	8,923.5	19.3	29.0	100.42	634.3	-1,163.7	1,182.3	1,135.8	46.50	25.425			
9,200.0	8,937.8	9,075.6	8,934.6	19.3	29.0	97.60	634.3	-1,163.7	1,210.8	1,164.2	46.59	25.986			
9,215.0	8,940.3	9,078.1	8,937.1	19.3	29.0	96.65	634.3	-1,163.7	1,219.7	1,173.1	46.62	26.164			
9,250.0	8,944.6	9,082.3	8,941.4	19.4	29.0	94.21	634.3	-1,163.7	1,241.1	1,194.4	46.66	26.598			
9,302.1	8,947.0	10,461.0	9,740.1	19.4	29.8	129.39	-191.6	-1,171.0	1,254.9	1,217.6	37.33	33.615			
9,310.0	8,947.0	10,468.9	9,740.1	19.4	29.8	129.39	-199.5	-1,171.1	1,254.9	1,217.6	37.36	33.586			
9,400.0	8,947.1	10,558.9	9,740.2	19.4	30.0	129.38	-289.5	-1,171.9	1,254.9	1,217.1	37.73	33.257			
9,405.0	8,947.2	10,563.9	9,740.2	19.4	30.0	129.38	-294.5	-1,171.9	1,254.9	1,217.1	37.76	33.237			
9,500.0	8,947.3	10,658.9	9,740.2	19.5	30.2	129.38	-389.5	-1,172.8	1,254.8	1,216.6	38.20	32.848			
9,595.0	8,947.4	10,753.9	9,740.3	19.5	30.3	129.38	-484.5	-1,173.6	1,254.8	1,216.1	38.70	32.422			

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	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 #806H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9308-r.5 MWD+IFR1+MS						Rule Assigned:					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)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
9,600.0	8,947.4	10,758.9	9,740.3	19.5	30.3	129.38	-489.5	-1,173.7	1,254.7	1,216.0	38.73	32.399		
9,690.0	8,947.6	10,848.9	9,740.3	19.6	30.5	129.37	-579.5	-1,174.5	1,254.7	1,215.4	39.25	31.966		
9,700.0	8,947.6	10,858.9	9,740.3	19.6	30.5	129.37	-589.5	-1,174.6	1,254.7	1,215.4	39.31	31.918		
9,785.0	8,947.7	10,943.9	9,740.4	19.7	30.7	129.37	-674.5	-1,175.3	1,254.6	1,214.8	39.85	31.485		
9,800.0	8,947.7	10,958.9	9,740.4	19.7	30.7	129.37	-689.5	-1,175.5	1,254.6	1,214.7	39.94	31.409		
9,880.0	8,947.9	11,038.9	9,740.4	19.8	30.9	129.37	-769.5	-1,176.2	1,254.6	1,214.1	40.49	30.984		
9,900.0	8,947.9	11,058.9	9,740.4	19.8	31.0	129.37	-789.5	-1,176.3	1,254.6	1,213.9	40.63	30.878		
9,975.0	8,948.0	11,133.9	9,740.5	19.9	31.1	129.37	-864.5	-1,177.0	1,254.5	1,213.3	41.18	30.466		
10,000.0	8,948.0	11,158.9	9,740.5	19.9	31.2	129.36	-889.5	-1,177.2	1,254.5	1,213.1	41.36	30.330		
10,070.0	8,948.1	11,228.9	9,740.5	20.0	31.4	129.36	-959.4	-1,177.9	1,254.5	1,212.6	41.90	29.937		
10,100.0	8,948.2	11,258.9	9,740.6	20.1	31.5	129.36	-989.4	-1,178.1	1,254.4	1,212.3	42.14	29.769		
10,165.0	8,948.3	11,323.9	9,740.6	20.2	31.6	129.36	-1,054.4	-1,178.7	1,254.4	1,211.7	42.67	29.398		
10,200.0	8,948.3	11,358.9	9,740.6	20.2	31.7	129.36	-1,089.4	-1,179.0	1,254.4	1,211.4	42.96	29.199		
10,260.0	8,948.4	11,418.9	9,740.6	20.3	31.9	129.36	-1,149.4	-1,179.5	1,254.4	1,210.9	43.47	28.854		
10,300.0	8,948.5	11,458.9	9,740.7	20.4	32.0	129.35	-1,189.4	-1,179.9	1,254.3	1,210.5	43.82	28.625		
10,355.0	8,948.6	11,513.9	9,740.7	20.5	32.2	129.35	-1,244.4	-1,180.4	1,254.3	1,210.0	44.31	28.308		
10,400.0	8,948.6	11,558.9	9,740.7	20.6	32.3	129.35	-1,289.4	-1,180.8	1,254.3	1,209.6	44.72	28.050		
10,450.0	8,948.7	11,608.9	9,740.7	20.7	32.5	129.35	-1,339.4	-1,181.2	1,254.2	1,209.1	45.18	27.762		
10,500.0	8,948.8	11,658.9	9,740.8	20.9	32.6	129.35	-1,389.4	-1,181.7	1,254.2	1,208.6	45.65	27.476		
10,545.0	8,948.8	11,703.9	9,740.8	21.0	32.8	129.35	-1,434.4	-1,182.1	1,254.2	1,208.1	46.08	27.219		
10,600.0	8,948.9	11,758.9	9,740.8	21.1	32.9	129.34	-1,489.4	-1,182.6	1,254.1	1,207.5	46.61	26.907		
10,640.0	8,949.0	11,798.9	9,740.8	21.3	33.1	129.34	-1,529.4	-1,182.9	1,254.1	1,207.1	47.01	26.680		
10,700.0	8,949.1	11,858.9	9,740.9	21.4	33.3	129.34	-1,589.4	-1,183.4	1,254.1	1,206.5	47.61	26.343		
10,735.0	8,949.1	11,893.9	9,740.9	21.6	33.4	129.34	-1,624.4	-1,183.8	1,254.1	1,206.1	47.96	26.147		
10,800.0	8,949.2	11,958.9	9,740.9	21.8	33.6	129.34	-1,689.4	-1,184.3	1,254.0	1,205.4	48.63	25.787		
10,830.0	8,949.3	11,988.9	9,740.9	21.9	33.7	129.34	-1,719.4	-1,184.6	1,254.0	1,205.1	48.94	25.622		
10,900.0	8,949.4	12,058.9	9,741.0	22.2	34.0	129.33	-1,789.4	-1,185.2	1,254.0	1,204.3	49.68	25.241		
10,925.0	8,949.4	12,083.9	9,741.0	22.3	34.1	129.33	-1,814.4	-1,185.4	1,254.0	1,204.0	49.95	25.105		
11,000.0	8,949.5	12,158.9	9,741.0	22.6	34.4	129.33	-1,889.4	-1,186.1	1,253.9	1,203.2	50.76	24.705		
11,020.0	8,949.5	12,178.9	9,741.0	22.7	34.4	129.33	-1,909.4	-1,186.3	1,253.9	1,202.9	50.97	24.598		
11,100.0	8,949.7	12,258.9	9,741.1	23.0	34.7	129.33	-1,989.4	-1,187.0	1,253.8	1,202.0	51.86	24.180		
11,115.0	8,949.7	12,273.9	9,741.1	23.1	34.8	129.33	-2,004.4	-1,187.1	1,253.8	1,201.8	52.02	24.102		
11,200.0	8,949.8	12,358.9	9,741.1	23.5	35.1	129.32	-2,089.4	-1,187.9	1,253.8	1,200.8	52.98	23.667		
11,210.0	8,949.8	12,368.9	9,741.1	23.6	35.2	129.32	-2,099.4	-1,188.0	1,253.8	1,200.7	53.09	23.616		
11,300.0	8,950.0	12,458.9	9,741.2	24.0	35.5	129.32	-2,189.4	-1,188.8	1,253.7	1,199.6	54.12	23.166		
11,305.0	8,950.0	12,463.9	9,741.2	24.1	35.6	129.32	-2,194.4	-1,188.8	1,253.7	1,199.5	54.18	23.141		
11,400.0	8,950.1	12,558.9	9,741.2	24.6	36.0	129.32	-2,289.4	-1,189.7	1,253.7	1,198.4	55.28	22.678		
11,495.0	8,950.2	12,653.9	9,741.3	25.1	36.4	129.31	-2,384.4	-1,190.5	1,253.6	1,197.2	56.40	22.227		
11,500.0	8,950.3	12,658.9	9,741.3	25.1	36.4	129.31	-2,389.4	-1,190.5	1,253.6	1,197.1	56.46	22.203		
11,590.0	8,950.4	12,748.9	9,741.3	25.6	36.8	129.31	-2,479.4	-1,191.3	1,253.6	1,196.0	57.54	21.787		
11,600.0	8,950.4	12,758.9	9,741.3	25.7	36.8	129.31	-2,489.4	-1,191.4	1,253.5	1,195.9	57.66	21.741		
11,685.0	8,950.5	12,843.9	9,741.4	26.2	37.2	129.31	-2,574.4	-1,192.2	1,253.5	1,194.8	58.69	21.359		
11,700.0	8,950.5	12,858.9	9,741.4	26.3	37.3	129.31	-2,589.4	-1,192.3	1,253.5	1,194.6	58.87	21.292		
11,780.0	8,950.7	12,938.9	9,741.4	26.7	37.7	129.30	-2,669.4	-1,193.0	1,253.4	1,193.6	59.85	20.942		
11,800.0	8,950.7	12,958.9	9,741.5	26.9	37.7	129.30	-2,689.4	-1,193.2	1,253.4	1,193.3	60.10	20.856		
11,875.0	8,950.8	13,033.9	9,741.5	27.3	38.1	129.30	-2,764.4	-1,193.9	1,253.4	1,192.4	61.03	20.537		
11,900.0	8,950.8	13,058.9	9,741.5	27.5	38.2	129.30	-2,789.4	-1,194.1	1,253.4	1,192.0	61.34	20.433		
11,970.0	8,950.9	13,128.9	9,741.5	27.9	38.6	129.30	-2,859.4	-1,194.7	1,253.3	1,191.1	62.22	20.144		
12,000.0	8,951.0	13,158.9	9,741.6	28.1	38.7	129.30	-2,889.4	-1,195.0	1,253.3	1,190.7	62.60	20.022		
12,065.0	8,951.1	13,223.9	9,741.6	28.5	39.0	129.29	-2,954.4	-1,195.6	1,253.3	1,189.8	63.42	19.761		
12,100.0	8,951.1	13,258.9	9,741.6	28.7	39.2	129.29	-2,989.4	-1,195.9	1,253.2	1,189.4	63.86	19.624		

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	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 #806H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9308-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
12,160.0	8,951.2	13,318.9	9,741.6	29.1	39.5	129.29	-3,049.4	-1,196.4	1,253.2	1,188.6	64.63	19.390
12,200.0	8,951.3	13,358.9	9,741.7	29.4	39.7	129.29	-3,089.4	-1,196.8	1,253.2	1,188.0	65.14	19.237
12,255.0	8,951.4	13,413.9	9,741.7	29.7	40.0	129.29	-3,144.4	-1,197.3	1,253.2	1,187.3	65.85	19.029
12,300.0	8,951.4	13,458.9	9,741.7	30.0	40.2	129.29	-3,189.4	-1,197.6	1,253.1	1,186.7	66.44	18.862
12,350.0	8,951.5	13,508.9	9,741.7	30.3	40.4	129.29	-3,239.4	-1,198.1	1,253.1	1,186.0	67.08	18.679
12,400.0	8,951.6	13,558.9	9,741.8	30.7	40.7	129.28	-3,289.4	-1,198.5	1,253.1	1,185.3	67.74	18.499
12,445.0	8,951.7	13,603.9	9,741.8	31.0	40.9	129.28	-3,334.4	-1,198.9	1,253.0	1,184.7	68.33	18.339
12,500.0	8,951.7	13,658.9	9,741.8	31.3	41.2	129.28	-3,389.4	-1,199.4	1,253.0	1,184.0	69.05	18.147
12,540.0	8,951.8	13,698.9	9,741.8	31.6	41.4	129.28	-3,429.4	-1,199.8	1,253.0	1,183.4	69.58	18.009
12,600.0	8,951.9	13,758.9	9,741.9	32.0	41.8	129.28	-3,489.3	-1,200.3	1,252.9	1,182.6	70.37	17.805
12,635.0	8,951.9	13,793.9	9,741.9	32.2	41.9	129.28	-3,524.3	-1,200.6	1,252.9	1,182.1	70.83	17.688
12,700.0	8,952.0	13,858.9	9,741.9	32.7	42.3	129.27	-3,589.3	-1,201.2	1,252.9	1,181.2	71.70	17.474
12,730.0	8,952.1	13,888.9	9,741.9	32.9	42.5	129.27	-3,619.3	-1,201.5	1,252.9	1,180.8	72.10	17.377
12,800.0	8,952.2	13,958.9	9,742.0	33.3	42.8	129.27	-3,689.3	-1,202.1	1,252.8	1,179.8	73.04	17.153
12,825.0	8,952.2	13,983.9	9,742.0	33.5	43.0	129.27	-3,714.3	-1,202.3	1,252.8	1,179.4	73.37	17.075
12,900.0	8,952.3	14,058.9	9,742.0	34.0	43.4	129.27	-3,789.3	-1,203.0	1,252.8	1,178.4	74.38	16.842
12,920.0	8,952.4	14,078.9	9,742.0	34.1	43.5	129.27	-3,809.3	-1,203.2	1,252.8	1,178.1	74.65	16.781
13,000.0	8,952.5	14,158.9	9,742.1	34.7	43.9	129.26	-3,889.3	-1,203.9	1,252.7	1,177.0	75.74	16.540
13,015.0	8,952.5	14,173.9	9,742.1	34.8	44.0	129.26	-3,904.3	-1,204.0	1,252.7	1,176.8	75.94	16.496
13,100.0	8,952.6	14,258.9	9,742.1	35.4	44.5	129.26	-3,989.3	-1,204.8	1,252.6	1,175.5	77.10	16.248
13,110.0	8,952.6	14,268.9	9,742.1	35.5	44.6	129.26	-3,999.3	-1,204.8	1,252.6	1,175.4	77.23	16.219
13,200.0	8,952.8	14,358.9	9,742.2	36.1	45.1	129.26	-4,089.3	-1,205.6	1,252.6	1,174.1	78.46	15.964
13,205.0	8,952.8	14,363.9	9,742.2	36.1	45.1	129.26	-4,094.3	-1,205.7	1,252.6	1,174.1	78.53	15.950
13,300.0	8,952.9	14,458.9	9,742.2	36.8	45.7	129.25	-4,189.3	-1,206.5	1,252.5	1,172.7	79.84	15.688
13,395.0	8,953.1	14,553.9	9,742.3	37.4	46.2	129.25	-4,284.3	-1,207.4	1,252.5	1,171.3	81.15	15.434
13,400.0	8,953.1	14,558.9	9,742.3	37.5	46.2	129.25	-4,289.3	-1,207.4	1,252.5	1,171.2	81.22	15.421
13,490.0	8,953.2	14,648.9	9,742.3	38.1	46.8	129.25	-4,379.3	-1,208.2	1,252.4	1,169.9	82.47	15.187
13,500.0	8,953.2	14,658.9	9,742.4	38.2	46.8	129.25	-4,389.3	-1,208.3	1,252.4	1,169.8	82.60	15.162
13,585.0	8,953.3	14,743.9	9,742.4	38.8	47.3	129.24	-4,474.3	-1,209.1	1,252.4	1,168.6	83.79	14.947
13,600.0	8,953.4	14,758.9	9,742.4	38.9	47.4	129.24	-4,489.3	-1,209.2	1,252.3	1,168.4	83.99	14.910
13,680.0	8,953.5	14,838.9	9,742.4	39.4	47.9	129.24	-4,569.3	-1,209.9	1,252.3	1,167.2	85.11	14.714
13,700.0	8,953.5	14,858.9	9,742.5	39.6	48.0	129.24	-4,589.3	-1,210.1	1,252.3	1,166.9	85.39	14.665
13,775.0	8,953.6	14,933.9	9,742.5	40.1	48.5	129.24	-4,664.3	-1,210.7	1,252.2	1,165.8	86.44	14.486
13,800.0	8,953.7	14,958.9	9,742.5	40.3	48.6	129.24	-4,689.3	-1,211.0	1,252.2	1,165.4	86.79	14.428
13,870.0	8,953.8	15,028.9	9,742.5	40.8	49.0	129.23	-4,759.3	-1,211.6	1,252.2	1,164.4	87.78	14.266
13,900.0	8,953.8	15,058.9	9,742.6	41.0	49.2	129.23	-4,789.3	-1,211.9	1,252.2	1,164.0	88.20	14.197
13,965.0	8,953.9	15,123.9	9,742.6	41.5	49.6	129.23	-4,854.3	-1,212.4	1,252.1	1,163.0	89.12	14.051
14,000.0	8,954.0	15,158.9	9,742.6	41.7	49.8	129.23	-4,889.3	-1,212.7	1,252.1	1,162.5	89.61	13.973
14,060.0	8,954.0	15,218.9	9,742.7	42.1	50.2	129.23	-4,949.3	-1,213.3	1,252.1	1,161.6	90.46	13.841
14,100.0	8,954.1	15,258.9	9,742.7	42.4	50.5	129.23	-4,989.3	-1,213.6	1,252.0	1,161.0	91.02	13.755
14,155.0	8,954.2	15,313.9	9,742.7	42.8	50.8	129.22	-5,044.3	-1,214.1	1,252.0	1,160.2	91.80	13.638
14,200.0	8,954.2	15,358.9	9,742.7	43.2	51.1	129.22	-5,089.3	-1,214.5	1,252.0	1,159.5	92.44	13.543
14,250.0	8,954.3	15,408.9	9,742.8	43.5	51.4	129.22	-5,139.3	-1,215.0	1,252.0	1,158.8	93.15	13.440
14,300.0	8,954.4	15,458.9	9,742.8	43.9	51.7	129.22	-5,189.3	-1,215.4	1,251.9	1,158.1	93.87	13.337
14,345.0	8,954.5	15,503.9	9,742.8	44.2	52.0	129.22	-5,234.3	-1,215.8	1,251.9	1,157.4	94.51	13.246
14,400.0	8,954.5	15,558.9	9,742.8	44.6	52.3	129.22	-5,289.3	-1,216.3	1,251.9	1,156.6	95.29	13.137
14,440.0	8,954.6	15,598.9	9,742.9	44.9	52.6	129.21	-5,329.3	-1,216.6	1,251.8	1,156.0	95.87	13.058
14,500.0	8,954.7	15,658.9	9,742.9	45.3	53.0	129.21	-5,389.3	-1,217.2	1,251.8	1,155.1	96.72	12.942
14,535.0	8,954.7	15,693.9	9,742.9	45.6	53.2	129.21	-5,424.3	-1,217.5	1,251.8	1,154.6	97.23	12.875
14,600.0	8,954.8	15,758.9	9,742.9	46.0	53.6	129.21	-5,489.3	-1,218.1	1,251.7	1,153.6	98.16	12.752
14,630.0	8,954.9	15,788.9	9,743.0	46.3	53.8	129.21	-5,519.3	-1,218.3	1,251.7	1,153.1	98.59	12.696

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	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 #806H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9308-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	
14,700.0	8,955.0	15,858.9	9,743.0	46.8	54.2	129.21	-5,589.3	-1,219.0	1,251.7	1,152.1	99.60	12.568	
14,725.0	8,955.0	15,883.9	9,743.0	46.9	54.4	129.20	-5,614.3	-1,219.2	1,251.7	1,151.7	99.96	12.522	
14,800.0	8,955.1	15,958.9	9,743.0	47.5	54.9	129.20	-5,689.3	-1,219.8	1,251.6	1,150.6	101.04	12.388	
14,820.0	8,955.2	15,978.9	9,743.1	47.6	55.0	129.20	-5,709.3	-1,220.0	1,251.6	1,150.3	101.32	12.353	
14,900.0	8,955.3	16,058.9	9,743.1	48.2	55.5	129.20	-5,789.3	-1,220.7	1,251.6	1,149.1	102.48	12.213	
14,915.0	8,955.3	16,073.9	9,743.1	48.3	55.6	129.20	-5,804.3	-1,220.9	1,251.6	1,148.9	102.70	12.187	
15,000.0	8,955.4	16,158.9	9,743.1	48.9	56.2	129.20	-5,889.3	-1,221.6	1,251.5	1,147.6	103.93	12.042	
15,010.0	8,955.4	16,168.9	9,743.2	49.0	56.2	129.20	-5,899.3	-1,221.7	1,251.5	1,147.4	104.07	12.026	
15,100.0	8,955.6	16,258.9	9,743.2	49.7	56.8	129.19	-5,989.2	-1,222.5	1,251.4	1,146.1	105.37	11.876	
15,105.0	8,955.6	16,263.9	9,743.2	49.7	56.9	129.19	-5,994.2	-1,222.6	1,251.4	1,146.0	105.45	11.868	
15,200.0	8,955.7	16,358.9	9,743.3	50.4	57.5	129.19	-6,089.2	-1,223.4	1,251.4	1,144.6	106.83	11.714	
15,295.0	8,955.9	16,453.9	9,743.3	51.1	58.1	129.19	-6,184.2	-1,224.2	1,251.3	1,143.1	108.21	11.564	
15,300.0	8,955.9	16,458.9	9,743.3	51.1	58.1	129.19	-6,189.2	-1,224.3	1,251.3	1,143.0	108.28	11.556	
15,390.0	8,956.0	16,548.9	9,743.4	51.8	58.7	129.18	-6,279.2	-1,225.1	1,251.3	1,141.7	109.59	11.418	
15,400.0	8,956.0	16,558.9	9,743.4	51.9	58.8	129.18	-6,289.2	-1,225.2	1,251.3	1,141.5	109.74	11.402	
15,485.0	8,956.1	16,643.9	9,743.4	52.5	59.4	129.18	-6,374.2	-1,225.9	1,251.2	1,140.2	110.98	11.274	
15,500.0	8,956.2	16,658.9	9,743.4	52.6	59.5	129.18	-6,389.2	-1,226.1	1,251.2	1,140.0	111.20	11.252	
15,580.0	8,956.3	16,738.9	9,743.5	53.2	60.0	129.18	-6,469.2	-1,226.8	1,251.2	1,138.8	112.37	11.135	
15,600.0	8,956.3	16,758.9	9,743.5	53.3	60.1	129.18	-6,489.2	-1,226.9	1,251.1	1,138.5	112.66	11.106	
15,675.0	8,956.4	16,833.9	9,743.5	53.9	60.6	129.17	-6,564.2	-1,227.6	1,251.1	1,137.3	113.76	10.998	
15,700.0	8,956.5	16,858.9	9,743.5	54.1	60.8	129.17	-6,589.2	-1,227.8	1,251.1	1,137.0	114.12	10.963	
15,770.0	8,956.6	16,928.9	9,743.6	54.6	61.3	129.17	-6,659.2	-1,228.5	1,251.0	1,135.9	115.15	10.865	
15,800.0	8,956.6	16,958.9	9,743.6	54.8	61.5	129.17	-6,689.2	-1,228.7	1,251.0	1,135.4	115.59	10.823	
15,865.0	8,956.7	17,023.9	9,743.6	55.3	61.9	129.17	-6,754.2	-1,229.3	1,251.0	1,134.4	116.54	10.734	
15,900.0	8,956.8	17,058.9	9,743.6	55.6	62.2	129.17	-6,789.2	-1,229.6	1,251.0	1,133.9	117.06	10.687	
15,960.0	8,956.9	17,118.9	9,743.7	56.0	62.6	129.16	-6,849.2	-1,230.1	1,250.9	1,133.0	117.94	10.607	
16,000.0	8,956.9	17,158.9	9,743.7	56.3	62.8	129.16	-6,889.2	-1,230.5	1,250.9	1,132.4	118.53	10.554	
16,055.0	8,957.0	17,213.9	9,743.7	56.7	63.2	129.16	-6,944.2	-1,231.0	1,250.9	1,131.5	119.34	10.482	
16,100.0	8,957.1	17,258.9	9,743.7	57.0	63.5	129.16	-6,989.2	-1,231.4	1,250.8	1,130.9	120.00	10.424	
16,150.0	8,957.1	17,308.9	9,743.8	57.4	63.8	129.16	-7,039.2	-1,231.8	1,250.8	1,130.1	120.73	10.360	
16,200.0	8,957.2	17,358.9	9,743.8	57.8	64.2	129.16	-7,089.2	-1,232.3	1,250.8	1,129.3	121.47	10.297	
16,245.0	8,957.3	17,403.9	9,743.8	58.1	64.5	129.15	-7,134.2	-1,232.7	1,250.8	1,128.6	122.13	10.241	
16,300.0	8,957.4	17,458.9	9,743.8	58.5	64.9	129.15	-7,189.2	-1,233.2	1,250.7	1,127.8	122.95	10.173	
16,340.0	8,957.4	17,498.9	9,743.9	58.8	65.1	129.15	-7,229.2	-1,233.5	1,250.7	1,127.2	123.54	10.124	
16,400.0	8,957.5	17,558.9	9,743.9	59.3	65.5	129.15	-7,289.2	-1,234.1	1,250.7	1,126.2	124.42	10.052	
16,435.0	8,957.6	17,593.9	9,743.9	59.5	65.8	129.15	-7,324.2	-1,234.4	1,250.6	1,125.7	124.94	10.010	
16,500.0	8,957.7	17,658.9	9,743.9	60.0	66.2	129.14	-7,389.2	-1,234.9	1,250.6	1,124.7	125.90	9.933	
16,530.0	8,957.7	17,688.9	9,744.0	60.2	66.4	129.14	-7,419.2	-1,235.2	1,250.6	1,124.2	126.35	9.898	
16,600.0	8,957.8	17,758.9	9,744.0	60.7	66.9	129.14	-7,489.2	-1,235.8	1,250.5	1,123.2	127.38	9.817	
16,625.0	8,957.8	17,783.9	9,744.0	60.9	67.1	129.14	-7,514.2	-1,236.0	1,250.5	1,122.8	127.75	9.789	
16,700.0	8,957.9	17,858.9	9,744.0	61.5	67.6	129.14	-7,589.2	-1,236.7	1,250.5	1,121.6	128.86	9.704	
16,720.0	8,958.0	17,878.9	9,744.1	61.6	67.7	129.14	-7,609.2	-1,236.9	1,250.5	1,121.3	129.16	9.682	
16,800.0	8,958.1	17,958.9	9,744.1	62.2	68.3	129.13	-7,689.2	-1,237.6	1,250.4	1,120.1	130.35	9.593	
16,815.0	8,958.1	17,973.9	9,744.1	62.3	68.4	129.13	-7,704.2	-1,237.7	1,250.4	1,119.9	130.57	9.577	
16,900.0	8,958.2	18,058.9	9,744.2	63.0	69.0	129.13	-7,789.2	-1,238.5	1,250.4	1,118.5	131.83	9.485	
16,910.0	8,958.3	18,068.9	9,744.2	63.0	69.1	129.13	-7,799.2	-1,238.6	1,250.4	1,118.4	131.98	9.474	
17,000.0	8,958.4	18,158.9	9,744.2	63.7	69.7	129.13	-7,889.2	-1,239.4	1,250.3	1,117.0	133.32	9.378	
17,005.0	8,958.4	18,163.9	9,744.2	63.7	69.7	129.13	-7,894.2	-1,239.4	1,250.3	1,116.9	133.39	9.373	
17,100.0	8,958.5	18,258.9	9,744.3	64.5	70.4	129.12	-7,989.2	-1,240.3	1,250.3	1,115.4	134.81	9.274	
17,195.0	8,958.7	18,353.9	9,744.3	65.2	71.0	129.12	-8,084.2	-1,241.1	1,250.2	1,114.0	136.22	9.178	
17,200.0	8,958.7	18,358.9	9,744.3	65.2	71.1	129.12	-8,089.2	-1,241.2	1,250.2	1,113.9	136.29	9.173	

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	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 #806H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9308-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum	Separation	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor
17,290.0	8,958.8	18,448.9	9,744.4	65.9	71.7	129.12	-8,179.2	-1,242.0	1,250.1	1,112.5	137.63	9.083
17,300.0	8,958.8	18,458.9	9,744.4	65.9	71.8	129.12	-8,189.2	-1,242.0	1,250.1	1,112.3	137.78	9.073
17,385.0	8,959.0	18,543.9	9,744.4	66.6	72.4	129.12	-8,274.2	-1,242.8	1,250.1	1,111.0	139.05	8.990
17,400.0	8,959.0	18,558.9	9,744.4	66.7	72.5	129.11	-8,289.2	-1,242.9	1,250.1	1,110.8	139.27	8.976
17,480.0	8,959.1	18,638.9	9,744.5	67.3	73.0	129.11	-8,369.2	-1,243.6	1,250.0	1,109.6	140.47	8.899
17,500.0	8,959.1	18,658.9	9,744.5	67.4	73.2	129.11	-8,389.2	-1,243.8	1,250.0	1,109.2	140.77	8.880
17,575.0	8,959.2	18,733.9	9,744.5	68.0	73.7	129.11	-8,464.1	-1,244.5	1,250.0	1,108.1	141.89	8.810
17,600.0	8,959.3	18,758.9	9,744.5	68.2	73.9	129.11	-8,489.1	-1,244.7	1,250.0	1,107.7	142.26	8.786
17,670.0	8,959.4	18,828.9	9,744.6	68.7	74.4	129.11	-8,559.1	-1,245.3	1,249.9	1,106.6	143.31	8.722
17,700.0	8,959.4	18,858.9	9,744.6	68.9	74.6	129.10	-8,589.1	-1,245.6	1,249.9	1,106.1	143.75	8.695
17,765.0	8,959.5	18,923.9	9,744.6	69.4	75.0	129.10	-8,654.1	-1,246.2	1,249.9	1,105.1	144.73	8.636
17,800.0	8,959.6	18,958.9	9,744.6	69.7	75.3	129.10	-8,689.1	-1,246.5	1,249.8	1,104.6	145.25	8.605
17,860.0	8,959.7	19,018.9	9,744.7	70.1	75.7	129.10	-8,749.1	-1,247.0	1,249.8	1,103.6	146.15	8.552
17,900.0	8,959.7	19,058.9	9,744.7	70.4	76.0	129.10	-8,789.1	-1,247.4	1,249.8	1,103.0	146.75	8.517
17,955.0	8,959.8	19,113.9	9,744.7	70.8	76.4	129.10	-8,844.1	-1,247.9	1,249.7	1,102.2	147.57	8.469
18,000.0	8,959.9	19,158.9	9,744.7	71.2	76.7	129.09	-8,889.1	-1,248.3	1,249.7	1,101.5	148.24	8.430
18,050.0	8,959.9	19,208.9	9,744.8	71.6	77.1	129.09	-8,939.1	-1,248.7	1,249.7	1,100.7	148.99	8.387
18,100.0	8,960.0	19,258.9	9,744.8	71.9	77.4	129.09	-8,989.1	-1,249.1	1,249.7	1,099.9	149.74	8.345
18,145.0	8,960.1	19,303.9	9,744.8	72.3	77.7	129.09	-9,034.1	-1,249.5	1,249.6	1,099.2	150.42	8.308
18,200.0	8,960.2	19,358.9	9,744.8	72.7	78.1	129.09	-9,089.1	-1,250.0	1,249.6	1,098.3	151.24	8.262
18,240.0	8,960.2	19,398.9	9,744.9	73.0	78.4	129.09	-9,129.1	-1,250.4	1,249.6	1,097.7	151.84	8.229
18,300.0	8,960.3	19,458.9	9,744.9	73.4	78.8	129.08	-9,189.1	-1,250.9	1,249.5	1,096.8	152.74	8.181
18,335.0	8,960.4	19,493.9	9,744.9	73.7	79.1	129.08	-9,224.1	-1,251.2	1,249.5	1,096.2	153.27	8.152
18,400.0	8,960.5	19,558.9	9,744.9	74.2	79.5	129.08	-9,289.1	-1,251.8	1,249.5	1,095.2	154.24	8.101
18,430.0	8,960.5	19,588.9	9,745.0	74.4	79.7	129.08	-9,319.1	-1,252.1	1,249.5	1,094.8	154.69	8.077
18,500.0	8,960.6	19,658.9	9,745.0	74.9	80.2	129.08	-9,389.1	-1,252.7	1,249.4	1,093.7	155.75	8.022
18,525.0	8,960.6	19,683.9	9,745.0	75.1	80.4	129.08	-9,414.1	-1,252.9	1,249.4	1,093.3	156.12	8.003
18,600.0	8,960.8	19,758.9	9,745.1	75.7	81.0	129.07	-9,489.1	-1,253.6	1,249.4	1,092.1	157.25	7.945
18,620.0	8,960.8	19,778.9	9,745.1	75.8	81.1	129.07	-9,509.1	-1,253.8	1,249.3	1,091.8	157.55	7.930
18,700.0	8,960.9	19,858.9	9,745.1	76.4	81.7	129.07	-9,589.1	-1,254.5	1,249.3	1,090.5	158.75	7.869
18,715.0	8,960.9	19,873.9	9,745.1	76.5	81.8	129.07	-9,604.1	-1,254.6	1,249.3	1,090.3	158.98	7.858
18,800.0	8,961.1	19,958.9	9,745.2	77.2	82.4	129.07	-9,689.1	-1,255.4	1,249.2	1,089.0	160.26	7.795
18,810.0	8,961.1	19,968.9	9,745.2	77.3	82.5	129.07	-9,699.1	-1,255.4	1,249.2	1,088.8	160.41	7.788
18,900.0	8,961.2	20,058.9	9,745.2	77.9	83.1	129.06	-9,789.1	-1,256.2	1,249.2	1,087.4	161.76	7.722
18,905.0	8,961.2	20,063.9	9,745.2	78.0	83.1	129.06	-9,794.1	-1,256.3	1,249.2	1,087.3	161.84	7.719
19,000.0	8,961.3	20,158.9	9,745.3	78.7	83.8	129.06	-9,889.1	-1,257.1	1,249.1	1,085.8	163.27	7.651
19,095.0	8,961.5	20,253.9	9,745.3	79.4	84.5	129.06	-9,984.1	-1,258.0	1,249.1	1,084.4	164.70	7.584
19,100.0	8,961.5	20,258.9	9,745.3	79.4	84.5	129.06	-9,989.1	-1,258.0	1,249.1	1,084.3	164.78	7.580
19,190.0	8,961.6	20,348.9	9,745.4	80.1	85.2	129.05	-10,079.1	-1,258.8	1,249.0	1,082.9	166.13	7.518
19,200.0	8,961.6	20,358.9	9,745.4	80.2	85.3	129.05	-10,089.1	-1,258.9	1,249.0	1,082.7	166.28	7.511
19,285.0	8,961.8	20,443.9	9,745.4	80.8	85.9	129.05	-10,174.1	-1,259.7	1,248.9	1,081.4	167.57	7.453
19,300.0	8,961.8	20,458.9	9,745.4	80.9	86.0	129.05	-10,189.1	-1,259.8	1,248.9	1,081.1	167.79	7.443
19,380.0	8,961.9	20,538.9	9,745.5	81.5	86.6	129.05	-10,269.1	-1,260.5	1,248.9	1,079.9	169.00	7.390
19,400.0	8,961.9	20,558.9	9,745.5	81.7	86.7	129.05	-10,289.1	-1,260.7	1,248.9	1,079.6	169.30	7.377
19,475.0	8,962.1	20,633.9	9,745.5	82.3	87.2	129.04	-10,364.1	-1,261.4	1,248.8	1,078.4	170.43	7.327
19,500.0	8,962.1	20,658.9	9,745.5	82.4	87.4	129.04	-10,389.1	-1,261.6	1,248.8	1,078.0	170.81	7.311
19,570.0	8,962.2	20,728.9	9,745.6	83.0	87.9	129.04	-10,459.1	-1,262.2	1,248.8	1,076.9	171.87	7.266
19,600.0	8,962.2	20,758.9	9,745.6	83.2	88.1	129.04	-10,489.1	-1,262.5	1,248.8	1,076.4	172.32	7.247
19,665.0	8,962.3	20,823.9	9,745.6	83.7	88.6	129.04	-10,554.1	-1,263.0	1,248.7	1,075.4	173.30	7.205
19,700.0	8,962.4	20,858.9	9,745.6	83.9	88.9	129.04	-10,589.1	-1,263.4	1,248.7	1,074.9	173.83	7.183
19,760.0	8,962.5	20,918.9	9,745.7	84.4	89.3	129.03	-10,649.1	-1,263.9	1,248.7	1,073.9	174.74	7.146

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	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 #806H - OWB - PWP1													Offset Site Error: 0.0 usft	
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9308-r.5 MWD+IFR1+MS							Rule Assigned:				Offset Well Error: 3.0 usft	
Reference	Offset	Semi Major Axis		Offset Wellbore Centre			Distance				Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
19,800.0	8,962.5	20,958.9	9,745.7	84.7	89.6	129.03	-10,689.1	-1,264.2	1,248.6	1,073.3	175.34	7.121		
19,855.0	8,962.6	21,013.9	9,745.7	85.1	90.0	129.03	-10,744.1	-1,264.7	1,248.6	1,072.4	176.17	7.087		
19,900.0	8,962.7	21,058.9	9,745.7	85.5	90.3	129.03	-10,789.1	-1,265.1	1,248.6	1,071.7	176.85	7.060		
19,950.0	8,962.8	21,108.9	9,745.8	85.8	90.7	129.03	-10,839.1	-1,265.6	1,248.5	1,070.9	177.61	7.030		
20,000.0	8,962.8	21,158.9	9,745.8	86.2	91.0	129.03	-10,889.1	-1,266.0	1,248.5	1,070.1	178.37	7.000		
20,045.0	8,962.9	21,203.9	9,745.8	86.5	91.4	129.02	-10,934.1	-1,266.4	1,248.5	1,069.4	179.05	6.973		
20,100.0	8,963.0	21,258.9	9,745.8	87.0	91.8	129.02	-10,989.0	-1,266.9	1,248.5	1,068.6	179.88	6.940		
20,140.0	8,963.0	21,298.9	9,745.9	87.3	92.1	129.02	-11,029.0	-1,267.3	1,248.4	1,067.9	180.49	6.917		
20,200.0	8,963.1	21,358.9	9,745.9	87.7	92.5	129.02	-11,089.0	-1,267.8	1,248.4	1,067.0	181.39	6.882		
20,235.0	8,963.2	21,393.9	9,745.9	88.0	92.7	129.02	-11,124.0	-1,268.1	1,248.4	1,066.5	181.92	6.862		
20,300.0	8,963.3	21,458.9	9,746.0	88.5	93.2	129.02	-11,189.0	-1,268.7	1,248.3	1,065.4	182.91	6.825		
20,330.0	8,963.3	21,488.9	9,746.0	88.7	93.4	129.02	-11,219.0	-1,268.9	1,248.3	1,065.0	183.36	6.808		
20,400.0	8,963.4	21,558.9	9,746.0	89.2	93.9	129.01	-11,289.0	-1,269.6	1,248.3	1,063.9	184.42	6.769		
20,425.0	8,963.5	21,583.9	9,746.0	89.4	94.1	129.01	-11,314.0	-1,269.8	1,248.3	1,063.5	184.80	6.755		
20,500.0	8,963.6	21,658.9	9,746.1	90.0	94.7	129.01	-11,389.0	-1,270.5	1,248.2	1,062.3	185.94	6.713		
20,520.0	8,963.6	21,678.9	9,746.1	90.1	94.8	129.01	-11,409.0	-1,270.6	1,248.2	1,062.0	186.24	6.702		
20,600.0	8,963.7	21,758.9	9,746.1	90.7	95.4	129.01	-11,489.0	-1,271.3	1,248.2	1,060.7	187.45	6.658		
20,615.0	8,963.7	21,773.9	9,746.1	90.8	95.5	129.01	-11,504.0	-1,271.5	1,248.2	1,060.5	187.68	6.650		
20,700.0	8,963.9	21,858.9	9,746.2	91.5	96.1	129.00	-11,589.0	-1,272.2	1,248.1	1,059.1	188.97	6.605		
20,710.0	8,963.9	21,868.9	9,746.2	91.6	96.2	129.00	-11,599.0	-1,272.3	1,248.1	1,059.0	189.12	6.599		
20,800.0	8,964.0	21,958.9	9,746.2	92.2	96.9	129.00	-11,689.0	-1,273.1	1,248.0	1,057.6	190.49	6.552		
20,805.0	8,964.0	21,963.9	9,746.2	92.3	96.9	129.00	-11,694.0	-1,273.2	1,248.0	1,057.5	190.56	6.549		
20,900.0	8,964.2	22,058.9	9,746.3	93.0	97.6	129.00	-11,789.0	-1,274.0	1,248.0	1,056.0	192.00	6.500		
20,995.0	8,964.3	22,153.9	9,746.3	93.7	98.3	128.99	-11,884.0	-1,274.8	1,247.9	1,054.5	193.45	6.451		
21,000.0	8,964.3	22,158.9	9,746.3	93.8	98.3	128.99	-11,889.0	-1,274.9	1,247.9	1,054.4	193.52	6.448		
21,090.0	8,964.4	22,248.9	9,746.4	94.4	99.0	128.99	-11,979.0	-1,275.7	1,247.9	1,053.0	194.89	6.403		
21,100.0	8,964.5	22,258.9	9,746.4	94.5	99.0	128.99	-11,989.0	-1,275.8	1,247.9	1,052.8	195.04	6.398		
21,185.0	8,964.6	22,343.9	9,746.4	95.2	99.7	128.99	-12,074.0	-1,276.5	1,247.8	1,051.5	196.33	6.356		
21,200.0	8,964.6	22,358.9	9,746.4	95.3	99.8	128.99	-12,089.0	-1,276.7	1,247.8	1,051.2	196.56	6.348		
21,280.0	8,964.7	22,438.9	9,746.5	95.9	100.4	128.98	-12,169.0	-1,277.4	1,247.8	1,050.0	197.77	6.309		
21,300.0	8,964.8	22,458.9	9,746.5	96.0	100.5	128.98	-12,189.0	-1,277.6	1,247.7	1,049.7	198.08	6.299		
21,375.0	8,964.9	22,533.9	9,746.5	96.6	101.1	128.98	-12,264.0	-1,278.2	1,247.7	1,048.5	199.22	6.263		
21,400.0	8,964.9	22,558.9	9,746.5	96.8	101.2	128.98	-12,289.0	-1,278.4	1,247.7	1,048.1	199.60	6.251		
21,470.0	8,965.0	22,628.9	9,746.6	97.3	101.8	128.98	-12,359.0	-1,279.1	1,247.6	1,047.0	200.66	6.218		
21,500.0	8,965.0	22,658.9	9,746.6	97.5	102.0	128.98	-12,389.0	-1,279.3	1,247.6	1,046.5	201.12	6.204		
21,565.0	8,965.1	22,723.9	9,746.6	98.0	102.5	128.97	-12,454.0	-1,279.9	1,247.6	1,045.5	202.10	6.173		
21,600.0	8,965.2	22,758.9	9,746.6	98.3	102.7	128.97	-12,489.0	-1,280.2	1,247.6	1,044.9	202.64	6.157		
21,660.0	8,965.3	22,818.9	9,746.7	98.7	103.2	128.97	-12,549.0	-1,280.8	1,247.5	1,044.0	203.55	6.129		
21,700.0	8,965.3	22,858.9	9,746.7	99.0	103.4	128.97	-12,589.0	-1,281.1	1,247.5	1,043.3	204.16	6.111		
21,755.0	8,965.4	22,913.9	9,746.7	99.5	103.8	128.97	-12,644.0	-1,281.6	1,247.5	1,042.5	204.99	6.085		
21,800.0	8,965.5	22,958.9	9,746.7	99.8	104.2	128.97	-12,689.0	-1,282.0	1,247.4	1,041.8	205.68	6.065		
21,850.0	8,965.6	23,008.9	9,746.8	100.2	104.5	128.96	-12,739.0	-1,282.4	1,247.4	1,041.0	206.44	6.043		
21,900.0	8,965.6	23,058.9	9,746.8	100.6	104.9	128.96	-12,789.0	-1,282.9	1,247.4	1,040.2	207.20	6.020		
21,945.0	8,965.7	23,103.9	9,746.8	100.9	105.2	128.96	-12,834.0	-1,283.3	1,247.4	1,039.5	207.88	6.000		
22,000.0	8,965.8	23,158.9	9,746.9	101.3	105.7	128.96	-12,889.0	-1,283.8	1,247.3	1,038.6	208.72	5.976		
22,040.0	8,965.8	23,198.9	9,746.9	101.6	105.9	128.96	-12,929.0	-1,284.1	1,247.3	1,038.0	209.33	5.959		
22,100.0	8,965.9	23,258.9	9,746.9	102.1	106.4	128.95	-12,989.0	-1,284.7	1,247.3	1,037.0	210.24	5.933		
22,135.0	8,966.0	23,293.9	9,746.9	102.3	106.6	128.95	-13,024.0	-1,285.0	1,247.2	1,036.5	210.77	5.917		
22,200.0	8,966.1	23,358.9	9,747.0	102.8	107.1	128.95	-13,089.0	-1,285.5	1,247.2	1,035.4	211.76	5.890		
22,230.0	8,966.1	23,388.9	9,747.0	103.1	107.3	128.95	-13,119.0	-1,285.8	1,247.2	1,035.0	212.22	5.877		
22,300.0	8,966.2	23,458.9	9,747.0	103.6	107.9	128.95	-13,189.0	-1,286.4	1,247.1	1,033.9	213.29	5.847		

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	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 #806H - OWB - PWP1													Offset Site Error: 0.0 usft	
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9308-r.5 MWD+IFR1+MS						Rule Assigned:				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	Warning	
22,325.0	8,966.3	23,483.9	9,747.0	103.8	108.0	128.95	-13,214.0	-1,286.7	1,247.1	1,033.5	213.67	5.837		
22,400.0	8,966.4	23,558.9	9,747.1	104.3	108.6	128.94	-13,289.0	-1,287.3	1,247.1	1,032.3	214.81	5.806		
22,420.0	8,966.4	23,578.9	9,747.1	104.5	108.7	128.94	-13,309.0	-1,287.5	1,247.1	1,032.0	215.11	5.797		
22,500.0	8,966.5	23,658.9	9,747.1	105.1	109.3	128.94	-13,389.0	-1,288.2	1,247.0	1,030.7	216.33	5.764		
22,515.0	8,966.6	23,673.9	9,747.1	105.2	109.4	128.94	-13,404.0	-1,288.3	1,247.0	1,030.5	216.56	5.758		
22,600.0	8,966.7	23,758.9	9,747.2	105.9	110.1	128.94	-13,488.9	-1,289.1	1,247.0	1,029.1	217.86	5.724		
22,610.0	8,966.7	23,768.9	9,747.2	105.9	110.1	128.94	-13,498.9	-1,289.2	1,247.0	1,029.0	218.01	5.720		
22,700.0	8,966.8	23,858.9	9,747.2	106.6	110.8	128.93	-13,588.9	-1,290.0	1,246.9	1,027.5	219.38	5.684		
22,705.0	8,966.8	23,863.9	9,747.2	106.6	110.8	128.93	-13,593.9	-1,290.0	1,246.9	1,027.4	219.46	5.682		
22,800.0	8,967.0	23,958.9	9,747.3	107.4	111.5	128.93	-13,688.9	-1,290.9	1,246.8	1,025.9	220.90	5.644		
22,895.0	8,967.1	24,053.9	9,747.3	108.1	112.2	128.93	-13,783.9	-1,291.7	1,246.8	1,024.4	222.35	5.607		
22,900.0	8,967.1	24,058.9	9,747.3	108.1	112.3	128.93	-13,788.9	-1,291.8	1,246.8	1,024.4	222.43	5.605		
22,990.0	8,967.3	24,148.9	9,747.4	108.8	113.0	128.92	-13,878.9	-1,292.6	1,246.7	1,022.9	223.80	5.571		
23,000.0	8,967.3	24,158.9	9,747.4	108.9	113.0	128.92	-13,888.9	-1,292.7	1,246.7	1,022.8	223.95	5.567		
23,085.0	8,967.4	24,243.9	9,747.4	109.5	113.7	128.92	-13,973.9	-1,293.4	1,246.7	1,021.4	225.25	5.535		
23,100.0	8,967.4	24,258.9	9,747.4	109.6	113.8	128.92	-13,988.9	-1,293.5	1,246.7	1,021.2	225.48	5.529		
23,180.0	8,967.5	24,338.9	9,747.5	110.2	114.4	128.92	-14,068.9	-1,294.2	1,246.6	1,019.9	226.70	5.499		
23,200.0	8,967.6	24,358.9	9,747.5	110.4	114.5	128.92	-14,088.9	-1,294.4	1,246.6	1,019.6	227.00	5.492		
23,275.0	8,967.7	24,433.9	9,747.5	111.0	115.1	128.91	-14,163.9	-1,295.1	1,246.6	1,018.4	228.15	5.464		
23,300.0	8,967.7	24,458.9	9,747.5	111.2	115.2	128.91	-14,188.9	-1,295.3	1,246.5	1,018.0	228.53	5.455		
23,370.0	8,967.8	24,528.9	9,747.6	111.7	115.8	128.91	-14,258.9	-1,295.9	1,246.5	1,016.9	229.60	5.429		
23,400.0	8,967.9	24,558.9	9,747.6	111.9	116.0	128.91	-14,288.9	-1,296.2	1,246.5	1,016.4	230.05	5.418		
23,465.0	8,968.0	24,623.9	9,747.6	112.4	116.5	128.91	-14,353.9	-1,296.8	1,246.5	1,015.4	231.05	5.395		
23,500.0	8,968.0	24,658.9	9,747.6	112.7	116.7	128.91	-14,388.9	-1,297.1	1,246.4	1,014.9	231.58	5.382		
23,560.0	8,968.1	24,718.9	9,747.7	113.1	117.2	128.91	-14,448.9	-1,297.6	1,246.4	1,013.9	232.50	5.361		
23,600.0	8,968.2	24,758.9	9,747.7	113.4	117.5	128.90	-14,488.9	-1,298.0	1,246.4	1,013.3	233.11	5.347		
23,655.0	8,968.2	24,813.9	9,747.7	113.8	117.9	128.90	-14,543.9	-1,298.5	1,246.3	1,012.4	233.95	5.327		
23,700.0	8,968.3	24,858.9	9,747.8	114.2	118.2	128.90	-14,588.9	-1,298.9	1,246.3	1,011.7	234.63	5.312		
23,750.0	8,968.4	24,908.9	9,747.8	114.6	118.6	128.90	-14,638.9	-1,299.3	1,246.3	1,010.9	235.40	5.294		
23,800.0	8,968.5	24,958.9	9,747.8	114.9	119.0	128.90	-14,688.9	-1,299.8	1,246.3	1,010.1	236.16	5.277		
23,845.0	8,968.5	25,003.9	9,747.8	115.3	119.3	128.90	-14,733.9	-1,300.2	1,246.2	1,009.4	236.85	5.262		
23,900.0	8,968.6	25,058.9	9,747.9	115.7	119.7	128.89	-14,788.9	-1,300.6	1,246.2	1,008.5	237.69	5.243		
23,940.0	8,968.7	25,098.9	9,747.9	116.0	120.0	128.89	-14,828.9	-1,301.0	1,246.2	1,007.9	238.30	5.229		
24,000.0	8,968.7	25,158.9	9,747.9	116.5	120.4	128.89	-14,888.9	-1,301.5	1,246.1	1,006.9	239.21	5.209		
24,035.0	8,968.8	25,193.9	9,747.9	116.7	120.7	128.89	-14,923.9	-1,301.8	1,246.1	1,006.4	239.75	5.198		
24,040.2	8,968.8	25,199.1	9,747.9	116.8	120.7	128.89	-14,929.1	-1,301.9	1,246.1	1,006.3	239.83	5.196		
24,100.0	8,968.9	25,258.9	9,748.0	117.2	121.2	128.89	-14,988.9	-1,302.4	1,246.1	1,005.3	240.74	5.176		
24,130.0	8,968.9	25,288.9	9,748.0	117.4	121.4	128.89	-15,018.9	-1,302.7	1,246.1	1,004.9	241.20	5.166		
24,170.2	8,969.0	25,329.1	9,748.0	117.8	121.7	128.88	-15,059.1	-1,303.0	1,246.0	1,004.2	241.81	5.153		
24,170.7	8,969.0	25,329.6	9,748.0	117.8	121.7	128.88	-15,059.6	-1,303.0	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

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Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	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
0.0	0.0	0.0	0.0	3.0	3.0	3.0	-35.62	1,022.4	-732.5	1,258.2				
95.0	95.0	56.5	56.5	3.0	3.1	3.1	-35.61	1,022.5	-732.4	1,257.8	1,251.8	6.03	208.589	
100.0	100.0	61.2	61.2	3.0	3.2	3.2	-35.61	1,022.6	-732.4	1,257.8	1,251.8	6.04	208.417	
190.0	190.0	145.9	145.9	3.1	3.8	3.8	-35.58	1,023.4	-732.0	1,258.3	1,252.1	6.21	202.644	
200.0	200.0	155.3	155.3	3.1	3.9	3.9	-35.57	1,023.5	-732.0	1,258.4	1,252.1	6.24	201.750	
285.0	285.0	235.2	235.2	3.3	4.9	4.9	-35.51	1,025.0	-731.3	1,259.2	1,252.7	6.45	195.143	
300.0	300.0	249.3	249.3	3.3	5.1	5.1	-35.49	1,025.3	-731.1	1,259.4	1,252.9	6.50	193.832	
380.0	380.0	324.5	324.4	3.4	6.1	6.1	-35.40	1,027.3	-730.2	1,260.5	1,253.8	6.74	187.065	
400.0	400.0	343.3	343.2	3.4	6.4	6.4	-35.38	1,027.9	-729.9	1,260.9	1,254.1	6.80	185.288	
475.0	475.0	413.7	413.6	3.5	7.5	7.5	-35.27	1,030.4	-728.7	1,262.3	1,255.3	7.06	178.834	
500.0	500.0	440.2	440.1	3.5	7.8	7.8	-35.22	1,031.4	-728.2	1,262.8	1,255.7	7.14	176.768	
570.0	570.0	537.8	537.7	3.6	8.3	8.3	-35.13	1,033.4	-727.0	1,263.5	1,256.1	7.35	171.811	
571.4	571.4	539.8	539.6	3.6	8.3	8.3	-35.13	1,033.4	-727.0	1,263.5	1,256.1	7.36	171.707	
600.0	600.0	564.3	564.1	3.6	8.3	8.3	-35.11	1,033.6	-726.8	1,263.5	1,256.0	7.50	168.515	
665.0	665.0	630.7	630.5	3.7	8.5	8.5	-35.09	1,033.9	-726.3	1,263.5	1,255.8	7.78	162.511	
700.0	700.0	666.5	666.3	3.8	8.7	8.7	-35.07	1,034.1	-726.1	1,263.5	1,255.6	7.92	159.436	
760.0	760.0	726.9	726.8	3.8	8.9	8.9	-35.06	1,034.2	-725.8	1,263.4	1,255.3	8.17	154.685	
800.0	800.0	765.6	765.4	3.9	9.0	9.0	-35.05	1,034.2	-725.6	1,263.4	1,255.1	8.31	152.015	
807.8	807.8	773.1	772.9	3.9	9.0	9.0	-35.05	1,034.2	-725.6	1,263.4	1,255.1	8.34	151.514	
855.0	855.0	818.7	818.5	4.0	9.1	9.1	-35.05	1,034.4	-725.5	1,263.4	1,254.9	8.51	148.543	
900.0	900.0	862.1	861.9	4.0	9.2	9.2	-35.04	1,034.5	-725.4	1,263.5	1,254.8	8.67	145.811	
950.0	950.0	910.8	910.6	4.1	9.3	9.3	-35.03	1,034.7	-725.4	1,263.7	1,254.8	8.83	143.046	
1,000.0	1,000.0	960.7	960.5	4.1	9.5	9.5	-35.03	1,034.9	-725.4	1,263.9	1,254.9	8.99	140.612	
1,045.0	1,045.0	1,005.6	1,005.4	4.2	9.6	9.6	-35.02	1,035.1	-725.4	1,264.0	1,254.9	9.13	138.441	
1,100.0	1,100.0	1,060.4	1,060.2	4.2	9.8	9.8	-35.01	1,035.4	-725.4	1,264.2	1,254.9	9.31	135.783	
1,140.0	1,140.0	1,100.1	1,099.9	4.3	9.9	9.9	-35.01	1,035.6	-725.4	1,264.4	1,254.9	9.44	133.894	
1,200.0	1,200.0	1,159.3	1,159.1	4.4	10.1	10.1	-34.99	1,036.0	-725.3	1,264.6	1,255.0	9.64	131.151	
1,235.0	1,235.0	1,193.8	1,193.6	4.4	10.2	10.2	-34.98	1,036.3	-725.1	1,264.8	1,255.1	9.76	129.606	
1,300.0	1,300.0	1,257.8	1,257.6	4.5	10.4	10.4	-34.94	1,037.1	-724.6	1,265.2	1,255.2	9.98	126.811	
1,330.0	1,330.0	1,290.4	1,290.2	4.5	10.5	10.5	-34.91	1,037.6	-724.2	1,265.3	1,255.2	10.12	124.985	
1,400.0	1,400.0	1,373.8	1,373.5	4.6	10.7	10.7	-34.83	1,038.6	-722.6	1,265.2	1,254.7	10.57	119.674	
1,425.0	1,425.0	1,403.5	1,403.3	4.6	10.8	10.8	-34.79	1,038.8	-721.8	1,265.0	1,254.3	10.73	117.915	
1,500.0	1,500.0	1,484.5	1,484.2	4.7	11.0	11.0	-34.69	1,039.2	-719.2	1,263.9	1,252.8	11.16	113.284	
1,520.0	1,520.0	1,501.4	1,501.1	4.8	11.0	11.0	-6.84	1,039.2	-718.8	1,263.6	1,252.3	11.26	112.169	
1,600.0	1,600.0	1,571.7	1,571.4	4.9	11.1	11.1	-6.83	1,039.0	-718.0	1,261.3	1,249.5	11.77	107.194	
1,615.0	1,615.0	1,587.8	1,587.5	4.9	11.1	11.1	-6.84	1,038.9	-718.0	1,260.6	1,248.7	11.91	105.879	
1,700.0	1,699.8	1,679.0	1,678.7	5.2	11.3	11.3	-6.86	1,038.5	-717.3	1,255.3	1,242.6	12.70	98.805	
1,710.0	1,709.8	1,689.7	1,689.4	5.2	11.3	11.3	-6.87	1,038.4	-717.2	1,254.5	1,241.7	12.80	98.014	
1,800.0	1,799.5	1,784.5	1,784.2	5.4	11.4	11.4	-6.89	1,037.9	-715.6	1,245.3	1,231.6	13.61	91.476	
1,805.0	1,804.4	1,789.6	1,789.3	5.4	11.5	11.5	-6.89	1,037.9	-715.5	1,244.7	1,231.0	13.66	91.149	
1,900.0	1,898.7	1,886.7	1,886.4	5.7	11.6	11.6	-6.92	1,037.4	-713.3	1,231.5	1,217.0	14.45	85.217	
1,925.1	1,923.5	1,912.3	1,911.9	5.8	11.7	11.7	-6.93	1,037.3	-712.6	1,227.4	1,212.8	14.62	83.971	
1,995.0	1,992.7	1,981.5	1,981.2	5.9	11.8	11.8	-6.92	1,037.0	-710.6	1,215.8	1,200.8	15.03	80.897	
2,000.0	1,997.6	1,986.4	1,986.0	5.9	11.8	11.8	-6.91	1,037.0	-710.5	1,215.0	1,199.9	15.05	80.705	
2,090.0	2,086.6	2,073.9	2,073.4	6.1	12.0	12.0	-6.89	1,036.8	-707.8	1,200.1	1,184.6	15.55	77.177	
2,100.0	2,096.5	2,083.5	2,083.1	6.2	12.0	12.0	-6.89	1,036.8	-707.6	1,198.5	1,182.9	15.60	76.808	
2,185.0	2,180.6	2,167.0	2,166.6	6.4	12.2	12.2	-6.86	1,036.7	-705.1	1,184.5	1,168.4	16.11	73.516	
2,200.0	2,195.4	2,182.1	2,181.6	6.4	12.2	12.2	-6.86	1,036.7	-704.7	1,182.1	1,165.9	16.21	72.901	
2,280.0	2,274.5	2,262.4	2,261.9	6.7	12.4	12.4	-6.83	1,036.6	-702.3	1,168.9	1,152.1	16.77	69.710	
2,300.0	2,294.3	2,282.5	2,282.0	6.7	12.5	12.5	-6.83	1,036.5	-701.7	1,165.5	1,148.6	16.91	68.946	
2,375.0	2,368.5	2,356.5	2,355.9	7.0	12.6	12.6	-6.81	1,036.3	-699.4	1,153.1	1,135.6	17.46	66.053	

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	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)	Semi 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
2,400.0	2,393.2	2,380.5	2,380.0	7.0	12.7	-6.80	1,036.2	-698.7	1,148.9	1,131.3	17.65	65.087	
2,470.0	2,462.5	2,447.9	2,447.3	7.3	12.9	-6.77	1,036.2	-696.6	1,137.4	1,119.2	18.20	62.492	
2,500.0	2,492.1	2,476.8	2,476.1	7.4	13.0	-6.76	1,036.2	-695.7	1,132.5	1,114.1	18.43	61.436	
2,565.0	2,556.4	2,535.9	2,535.3	7.6	13.1	-6.74	1,036.3	-694.0	1,122.0	1,103.1	18.90	59.360	
2,600.0	2,591.0	2,564.8	2,564.1	7.7	13.2	-6.74	1,036.4	-693.4	1,116.5	1,097.4	19.12	58.403	
2,660.0	2,650.4	2,614.3	2,613.7	7.9	13.4	-6.75	1,036.6	-692.9	1,107.5	1,088.0	19.49	56.817	
2,700.0	2,689.9	2,647.4	2,646.8	8.1	13.5	-6.78	1,036.7	-692.9	1,101.8	1,082.1	19.74	55.807	
2,755.0	2,744.3	2,706.0	2,705.3	8.2	13.6	-6.86	1,037.0	-693.7	1,094.5	1,074.3	20.13	54.363	
2,800.0	2,788.8	2,735.4	2,734.7	8.4	13.7	-6.91	1,037.2	-694.4	1,088.5	1,068.0	20.52	53.050	
2,850.0	2,838.3	2,785.6	2,784.9	8.6	13.8	-7.00	1,037.5	-695.5	1,082.1	1,061.0	21.08	51.334	
2,900.0	2,887.7	2,835.7	2,835.0	8.8	13.9	-7.09	1,037.8	-696.6	1,075.6	1,053.9	21.64	49.713	
2,945.0	2,932.2	2,880.8	2,880.1	8.9	14.0	-7.17	1,038.0	-697.6	1,069.7	1,047.5	22.14	48.324	
3,000.0	2,986.6	2,935.6	2,934.9	9.1	14.2	-7.28	1,038.1	-698.9	1,062.5	1,039.9	22.63	46.958	
3,040.0	3,026.2	2,975.3	2,974.5	9.3	14.3	-7.35	1,038.3	-699.8	1,057.2	1,034.3	22.94	46.078	
3,100.0	3,085.5	3,034.8	3,034.0	9.5	14.4	-7.47	1,038.5	-701.1	1,049.4	1,026.0	23.42	44.813	
3,135.0	3,120.1	3,069.5	3,068.8	9.6	14.5	-7.54	1,038.6	-701.9	1,044.8	1,021.1	23.69	44.102	
3,200.0	3,184.4	3,134.6	3,133.9	9.9	14.7	-7.67	1,038.8	-703.4	1,036.3	1,012.1	24.15	42.917	
3,230.0	3,214.1	3,164.8	3,164.0	10.0	14.7	-7.73	1,038.9	-704.1	1,032.3	1,008.0	24.35	42.399	
3,300.0	3,283.3	3,230.5	3,229.7	10.3	15.0	-7.90	1,038.7	-706.1	1,023.2	998.3	24.85	41.177	
3,325.0	3,308.1	3,253.3	3,252.5	10.4	15.0	-7.99	1,038.4	-707.2	1,020.0	995.0	25.03	40.752	
3,400.0	3,382.2	3,325.4	3,324.3	10.7	15.4	-8.39	1,036.4	-712.7	1,010.6	985.1	25.59	39.489	
3,420.0	3,402.0	3,345.1	3,343.9	10.7	15.6	-8.53	1,035.6	-714.5	1,008.2	982.4	25.75	39.156	
3,500.0	3,481.1	3,425.6	3,423.8	11.1	16.0	-9.16	1,031.6	-723.0	998.3	972.0	26.35	37.889	
3,515.0	3,496.0	3,440.9	3,439.0	11.1	16.1	-9.29	1,030.9	-724.6	996.5	970.0	26.46	37.660	
3,600.0	3,580.0	3,527.5	3,525.1	11.5	16.5	-9.99	1,026.3	-733.5	985.9	958.8	27.09	36.394	
3,610.0	3,589.9	3,537.7	3,535.2	11.5	16.6	-10.07	1,025.8	-734.6	984.6	957.4	27.16	36.248	
3,700.0	3,678.9	3,628.1	3,625.1	11.9	17.0	-10.80	1,020.9	-743.6	973.3	945.4	27.86	34.934	
3,705.0	3,683.9	3,633.1	3,630.0	11.9	17.0	-10.85	1,020.7	-744.1	972.6	944.7	27.90	34.863	
3,800.0	3,777.8	3,728.0	3,724.3	12.3	17.3	-11.63	1,015.5	-753.3	960.7	932.1	28.59	33.597	
3,895.0	3,871.8	3,833.5	3,829.1	12.6	17.8	-12.55	1,009.1	-763.5	948.4	919.0	29.39	32.271	
3,900.0	3,876.7	3,839.2	3,834.8	12.7	17.8	-12.60	1,008.7	-764.0	947.7	918.3	29.43	32.200	
3,990.0	3,965.8	3,942.1	3,936.9	13.0	18.3	-13.63	1,000.1	-774.1	934.8	904.5	30.24	30.910	
4,000.0	3,975.6	3,953.5	3,948.1	13.1	18.4	-13.75	999.0	-775.3	933.3	902.9	30.33	30.766	
4,085.0	4,059.7	4,037.3	4,031.2	13.4	18.8	-14.64	991.0	-783.3	920.5	889.5	31.01	29.681	
4,100.0	4,074.5	4,052.3	4,046.0	13.5	18.8	-14.80	989.6	-784.7	918.2	887.1	31.13	29.493	
4,127.7	4,101.9	4,080.0	4,073.5	13.6	19.0	-15.10	987.0	-787.2	914.1	882.7	31.35	29.159	
4,180.0	4,153.7	4,132.3	4,125.4	13.8	19.2	-15.63	982.2	-791.9	906.5	874.7	31.76	28.538	
4,200.0	4,173.5	4,152.4	4,145.3	13.9	19.3	-15.83	980.3	-793.6	903.7	871.8	31.91	28.323	
4,275.0	4,247.9	4,228.0	4,220.3	14.2	19.6	-16.57	973.5	-799.9	893.8	861.4	32.44	27.554	
4,300.0	4,272.7	4,253.3	4,245.4	14.3	19.7	-16.82	971.2	-801.9	890.7	858.1	32.62	27.310	
4,370.0	4,342.3	4,324.1	4,315.7	14.5	19.9	-17.48	965.0	-807.3	882.6	849.5	33.10	26.662	
4,400.0	4,372.1	4,349.0	4,340.5	14.6	20.0	-17.70	962.8	-809.1	879.5	846.1	33.35	26.373	
4,465.0	4,436.8	4,401.8	4,392.9	14.9	20.3	-18.19	958.5	-813.6	873.8	839.9	33.87	25.797	
4,500.0	4,471.7	4,430.2	4,421.1	15.0	20.4	-18.46	956.3	-816.3	871.4	837.3	34.15	25.514	
4,560.0	4,531.5	4,479.1	4,469.6	15.2	20.7	-18.93	952.7	-821.3	868.5	833.8	34.63	25.079	
4,600.0	4,571.4	4,518.0	4,508.2	15.4	20.9	-19.32	950.0	-825.8	867.3	832.3	34.97	24.800	
4,655.0	4,626.3	4,566.1	4,555.8	15.6	21.1	-19.79	946.8	-831.4	866.4	830.9	35.41	24.467	
4,700.0	4,671.2	4,612.1	4,601.4	15.7	21.3	-20.23	943.7	-836.7	866.0	830.2	35.80	24.191	
4,734.2	4,705.4	4,647.0	4,636.1	15.8	21.5	-20.56	941.3	-840.7	865.9	829.8	36.08	23.996 CC	
4,750.0	4,721.2	4,663.2	4,652.0	15.9	21.6	-20.70	940.3	-842.5	865.9	829.7	36.22	23.908	
4,800.0	4,771.1	4,714.4	4,702.8	16.0	21.9	-21.17	936.8	-848.1	866.2	829.6	36.63	23.648 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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	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
4,845.0	4,816.1	4,760.7	4,748.8	16.2	22.0	-21.57	-21.57	933.7	-853.1	866.8	829.9	36.91	23.486	
4,900.0	4,871.1	4,817.5	4,805.1	16.3	22.2	-22.05	-22.05	929.9	-859.1	867.9	830.6	37.24	23.302	
4,940.0	4,911.1	4,858.8	4,846.1	16.4	22.4	-22.38	-22.38	927.1	-863.3	868.9	831.4	37.44	23.208	
4,977.9	4,949.0	4,897.9	4,885.0	16.4	22.5	-50.51	-50.51	924.5	-867.2	870.1	832.4	37.62	23.125	
5,000.0	4,971.1	4,918.1	4,905.0	16.4	22.6	-50.67	-50.67	923.1	-869.2	870.8	833.1	37.70	23.098	
5,035.0	5,006.1	4,949.8	4,936.4	16.5	22.7	-50.91	-50.91	921.0	-872.5	872.2	834.3	37.84	23.051	
5,100.0	5,071.1	5,008.5	4,994.7	16.5	23.0	-51.35	-51.35	917.3	-878.7	875.0	836.9	38.08	22.975	
5,130.0	5,101.1	5,035.6	5,021.6	16.5	23.1	-51.56	-51.56	915.7	-881.7	876.5	838.3	38.20	22.945	
5,200.0	5,171.1	5,099.4	5,084.8	16.6	23.3	-52.04	-52.04	912.0	-889.0	880.3	841.8	38.46	22.886	
5,225.0	5,196.1	5,123.2	5,108.4	16.6	23.4	-52.23	-52.23	910.7	-891.8	881.8	843.2	38.56	22.865	
5,300.0	5,271.1	5,194.5	5,179.1	16.6	23.7	-52.78	-52.78	906.6	-900.5	886.5	847.6	38.86	22.810	
5,320.0	5,291.1	5,213.5	5,197.9	16.6	23.7	-52.92	-52.92	905.5	-902.9	887.8	848.8	38.94	22.797	
5,400.0	5,371.1	5,290.2	5,273.9	16.7	24.0	-53.53	-53.53	901.2	-912.6	893.2	853.9	39.26	22.750	
5,415.0	5,386.1	5,305.8	5,289.3	16.7	24.1	-53.65	-53.65	900.3	-914.6	894.2	854.9	39.33	22.740	
5,500.0	5,471.1	5,394.0	5,376.7	16.7	24.4	-54.32	-54.32	895.2	-925.6	900.0	860.3	39.69	22.677	
5,510.0	5,481.1	5,404.4	5,387.0	16.7	24.5	-54.40	-54.40	894.6	-926.9	900.7	860.9	39.73	22.669	
5,600.0	5,571.1	5,497.0	5,478.8	16.8	24.8	-55.09	-55.09	889.3	-937.9	906.4	866.3	40.11	22.598	
5,605.0	5,576.1	5,502.1	5,483.8	16.8	24.8	-55.12	-55.12	889.0	-938.5	906.8	866.6	40.13	22.594	
5,700.0	5,671.1	5,598.0	5,578.9	16.8	25.2	-55.79	-55.79	883.7	-949.5	912.8	872.2	40.53	22.522	
5,795.0	5,766.1	5,698.1	5,678.3	16.9	25.6	-56.45	-56.45	878.3	-960.4	918.6	877.7	40.93	22.441	
5,800.0	5,771.1	5,703.8	5,683.9	16.9	25.6	-56.49	-56.49	878.0	-961.0	918.9	877.9	40.96	22.436	
5,890.0	5,861.1	5,806.0	5,785.4	17.0	26.0	-57.19	-57.19	871.4	-971.4	923.4	882.1	41.36	22.329	
5,900.0	5,871.1	5,817.4	5,796.7	17.0	26.0	-57.27	-57.27	870.6	-972.5	923.9	882.5	41.40	22.316	
5,985.0	5,956.1	5,909.1	5,887.7	17.0	26.4	-57.93	-57.93	863.5	-981.3	927.1	885.4	41.75	22.206	
6,000.0	5,971.1	5,924.8	5,903.3	17.0	26.4	-58.05	-58.05	862.1	-982.8	927.7	885.9	41.81	22.187	
6,080.0	6,051.1	6,008.4	5,986.2	17.1	26.8	-58.73	-58.73	854.2	-990.9	930.4	888.3	42.13	22.083	
6,100.0	6,071.1	6,029.3	6,006.8	17.1	26.8	-58.91	-58.91	852.1	-993.0	931.0	888.8	42.21	22.057	
6,175.0	6,146.1	6,109.1	6,085.7	17.1	27.1	-59.63	-59.63	843.2	-1,001.0	933.2	890.7	42.51	21.956	
6,200.0	6,171.1	6,135.8	6,112.1	17.1	27.2	-59.88	-59.88	839.9	-1,003.7	933.9	891.3	42.60	21.922	
6,270.0	6,241.1	6,210.2	6,185.4	17.2	27.5	-60.64	-60.64	830.1	-1,011.3	935.6	892.7	42.87	21.824	
6,300.0	6,271.1	6,242.0	6,216.7	17.2	27.7	-60.98	-60.98	825.5	-1,014.7	936.2	893.3	42.98	21.782	
6,365.0	6,336.1	6,310.8	6,284.5	17.2	27.9	-61.71	-61.71	815.7	-1,021.5	937.5	894.3	43.23	21.689	
6,400.0	6,371.1	6,348.0	6,321.1	17.3	28.1	-62.09	-62.09	810.5	-1,025.0	938.1	894.7	43.36	21.637	
6,460.0	6,431.1	6,411.8	6,384.1	17.3	28.3	-62.73	-62.73	801.7	-1,030.6	939.0	895.4	43.58	21.545	
6,500.0	6,471.1	6,452.0	6,423.8	17.3	28.5	-63.11	-63.11	796.3	-1,033.9	939.5	895.7	43.73	21.483	
6,555.0	6,526.1	6,506.4	6,477.6	17.3	28.7	-63.60	-63.60	789.5	-1,038.2	940.2	896.3	43.93	21.401	
6,600.0	6,571.1	6,551.0	6,521.7	17.4	28.8	-63.98	-63.98	784.2	-1,041.5	940.9	896.8	44.10	21.334	
6,650.0	6,621.1	6,600.6	6,570.9	17.4	29.0	-64.37	-64.37	778.7	-1,045.1	941.7	897.4	44.30	21.259	
6,700.0	6,671.1	6,653.6	6,623.6	17.4	29.2	-64.75	-64.75	773.5	-1,048.5	942.5	898.0	44.48	21.191	
6,745.0	6,716.1	6,702.6	6,672.3	17.5	29.4	-65.04	-65.04	769.4	-1,051.0	943.0	898.4	44.64	21.126	
6,800.0	6,771.1	6,761.1	6,730.7	17.5	29.6	-65.30	-65.30	765.7	-1,053.2	943.4	898.6	44.83	21.046	
6,840.0	6,811.1	6,803.7	6,773.1	17.5	29.7	-65.43	-65.43	763.9	-1,054.2	943.6	898.6	44.97	20.984	
6,900.0	6,871.1	6,868.4	6,837.8	17.6	29.9	-65.54	-65.54	762.2	-1,055.1	943.6	898.5	45.17	20.890	
6,919.9	6,891.0	6,886.7	6,856.1	17.6	30.0	-65.56	-65.56	762.0	-1,055.1	943.6	898.4	45.24	20.858	
6,935.0	6,906.1	6,899.2	6,868.7	17.6	30.0	-65.56	-65.56	761.9	-1,055.2	943.6	898.3	45.29	20.835	
7,000.0	6,971.1	6,936.0	6,905.5	17.6	30.1	-65.55	-65.55	762.1	-1,055.3	944.4	898.9	45.49	20.761	
7,030.0	7,001.1	6,958.1	6,927.5	17.6	30.2	-65.52	-65.52	762.9	-1,055.6	945.2	899.7	45.58	20.738 SF	
7,100.0	7,071.1	6,985.0	6,954.3	17.7	30.2	-65.42	-65.42	765.1	-1,056.4	949.6	903.9	45.71	20.773	
7,125.0	7,096.1	7,000.7	6,969.9	17.7	30.3	-65.33	-65.33	766.9	-1,057.0	951.8	906.0	45.78	20.789	
7,200.0	7,171.1	7,030.0	6,998.8	17.7	30.4	-65.11	-65.11	771.6	-1,058.5	960.6	914.7	45.87	20.941	
7,220.0	7,191.1	7,046.4	7,014.8	17.7	30.4	-64.96	-64.96	774.8	-1,059.5	963.3	917.4	45.94	20.971	

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	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
Reference	Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
7,300.0	7,271.1	7,081.0	7,048.4	17.8	30.5	-64.58	782.9	-1,061.9	976.8	930.8	45.98	21.245
7,315.0	7,286.1	7,081.0	7,048.4	17.8	30.5	-64.58	782.9	-1,061.9	979.8	933.8	45.92	21.336
7,400.0	7,371.1	7,128.0	7,093.1	17.9	30.6	-63.93	797.0	-1,065.7	998.2	952.2	45.97	21.713
7,410.0	7,381.1	7,128.0	7,093.1	17.9	30.6	-63.93	797.0	-1,065.7	1,000.7	954.8	45.92	21.791
7,500.0	7,471.1	7,176.0	7,137.3	17.9	30.7	-63.08	815.2	-1,069.8	1,024.5	978.6	45.90	22.321
7,505.0	7,476.1	7,176.0	7,137.3	17.9	30.7	-63.08	815.2	-1,069.8	1,026.0	980.1	45.87	22.368
7,600.0	7,571.1	7,223.0	7,178.9	18.0	30.8	-62.06	836.8	-1,073.5	1,055.5	1,009.7	45.75	23.069
7,695.0	7,666.1	7,271.0	7,219.6	18.0	30.9	-60.90	861.9	-1,077.3	1,089.3	1,043.7	45.62	23.880
7,700.0	7,671.1	7,271.0	7,219.6	18.0	30.9	-60.90	861.9	-1,077.3	1,091.2	1,045.6	45.58	23.942
7,790.0	7,761.1	7,318.0	7,257.4	18.1	31.0	-59.65	889.5	-1,080.7	1,127.2	1,081.8	45.43	24.813
7,800.0	7,771.1	7,318.0	7,257.4	18.1	31.0	-59.65	889.5	-1,080.7	1,131.4	1,086.1	45.35	24.951
7,885.0	7,856.1	7,367.0	7,294.2	18.2	31.0	-58.16	921.8	-1,082.2	1,168.7	1,123.5	45.22	25.847
7,900.0	7,871.1	7,367.0	7,294.2	18.2	31.0	-58.16	921.8	-1,082.2	1,175.6	1,130.5	45.09	26.071
7,980.0	7,951.1	7,390.8	7,310.9	18.2	31.1	-57.37	938.8	-1,082.3	1,213.9	1,169.2	44.69	27.164
8,000.0	7,971.1	7,395.8	7,314.3	18.2	31.1	-57.20	942.5	-1,082.2	1,224.0	1,179.4	44.58	27.459
8,075.0	8,046.1	7,414.0	7,326.3	18.3	31.1	-56.58	956.2	-1,082.2	1,263.4	1,219.2	44.15	28.618
8,100.0	8,071.1	7,414.0	7,326.3	18.3	31.1	-56.58	956.2	-1,082.2	1,277.1	1,233.2	43.93	29.074
8,170.0	8,141.1	7,414.0	7,326.3	18.3	31.1	-56.58	956.2	-1,082.2	1,317.3	1,274.0	43.31	30.414

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	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)	Reference (usft)	Semi 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	
0.0	0.0	0.0	0.0	3.0	3.0	10.93	1,038.4	200.5	1,058.2					
95.0	95.0	60.1	60.1	3.0	3.2	10.93	1,038.3	200.5	1,057.5	1,051.4	6.17	171.445		
100.0	100.0	65.2	65.2	3.0	3.2	10.93	1,038.3	200.5	1,057.5	1,051.3	6.20	170.636		
190.0	190.0	158.2	158.2	3.1	4.0	10.94	1,038.0	200.6	1,057.2	1,050.1	7.06	149.803		
200.0	200.0	168.6	168.6	3.1	4.1	10.94	1,037.9	200.7	1,057.2	1,050.0	7.18	147.160		
285.0	285.0	256.4	256.4	3.3	5.2	10.96	1,037.3	200.9	1,056.6	1,048.3	8.34	126.710		
300.0	300.0	271.9	271.9	3.3	5.4	10.96	1,037.2	200.9	1,056.5	1,047.9	8.56	123.386		
380.0	380.0	354.6	354.6	3.4	6.6	10.99	1,036.3	201.3	1,055.7	1,045.9	9.80	107.770		
400.0	400.0	375.3	375.3	3.4	6.9	11.00	1,036.0	201.3	1,055.5	1,045.4	10.12	104.326		
475.0	475.0	452.3	452.3	3.5	7.9	11.03	1,035.0	201.7	1,054.5	1,043.4	11.17	94.445		
500.0	500.0	477.5	477.5	3.5	8.1	11.04	1,034.6	201.8	1,054.2	1,042.8	11.38	92.619		
570.0	570.0	548.2	548.2	3.6	8.6	11.07	1,033.5	202.2	1,053.2	1,041.2	11.99	87.865		
600.0	600.0	578.5	578.5	3.6	8.9	11.08	1,033.0	202.4	1,052.8	1,040.5	12.25	85.949		
665.0	665.0	644.1	644.0	3.7	9.2	11.11	1,032.0	202.7	1,051.8	1,039.1	12.70	82.798		
700.0	700.0	679.3	679.2	3.8	9.4	11.13	1,031.4	202.9	1,051.3	1,038.4	12.85	81.794		
760.0	760.0	739.6	739.5	3.8	9.5	11.15	1,030.4	203.2	1,050.4	1,037.2	13.11	80.140		
800.0	800.0	779.8	779.7	3.9	9.7	11.17	1,029.7	203.4	1,049.7	1,036.4	13.28	79.062		
855.0	855.0	835.2	835.1	4.0	9.8	11.20	1,028.7	203.7	1,048.8	1,035.3	13.51	77.623		
900.0	900.0	880.6	880.5	4.0	10.0	11.23	1,027.9	204.0	1,048.1	1,034.4	13.71	76.466		
950.0	950.0	931.0	930.9	4.1	10.1	11.25	1,027.0	204.3	1,047.3	1,033.3	13.92	75.225		
1,000.0	1,000.0	981.4	981.3	4.1	10.3	11.28	1,026.0	204.6	1,046.4	1,032.3	14.14	74.012		
1,045.0	1,045.0	1,026.7	1,026.6	4.2	10.4	11.30	1,025.2	204.9	1,045.6	1,031.3	14.33	72.951		
1,100.0	1,100.0	1,082.0	1,081.9	4.2	10.6	11.33	1,024.1	205.2	1,044.6	1,030.1	14.57	71.685		
1,140.0	1,140.0	1,122.3	1,122.1	4.3	10.8	11.35	1,023.3	205.3	1,043.9	1,029.2	14.75	70.792		
1,200.0	1,200.0	1,182.7	1,182.5	4.4	11.0	11.37	1,022.2	205.6	1,042.8	1,027.8	15.01	69.489		
1,235.0	1,235.0	1,218.2	1,218.0	4.4	11.1	11.38	1,021.5	205.7	1,042.1	1,027.0	15.15	68.786		
1,300.0	1,300.0	1,284.2	1,284.0	4.5	11.3	11.40	1,020.1	205.7	1,040.9	1,025.4	15.42	67.507		
1,330.0	1,330.0	1,314.6	1,314.4	4.5	11.4	11.41	1,019.5	205.8	1,040.3	1,024.7	15.54	66.933		
1,400.0	1,400.0	1,386.2	1,386.0	4.6	11.6	11.42	1,018.0	205.7	1,038.8	1,022.9	15.83	65.610		
1,425.0	1,425.0	1,412.5	1,412.3	4.6	11.7	11.43	1,017.4	205.7	1,038.2	1,022.3	15.94	65.136		
1,500.0	1,500.0	1,491.3	1,491.1	4.7	12.0	11.46	1,015.3	205.7	1,036.3	1,020.1	16.26	63.736		
1,520.0	1,520.0	1,512.3	1,512.1	4.8	12.0	39.30	1,014.7	205.8	1,035.7	1,019.4	16.36	63.323		
1,600.0	1,600.0	1,586.2	1,585.9	4.9	12.2	39.44	1,012.5	206.1	1,032.2	1,015.5	16.67	61.917		
1,615.0	1,615.0	1,597.6	1,597.3	4.9	12.3	39.47	1,012.3	206.1	1,031.5	1,014.7	16.72	61.676		
1,700.0	1,699.8	1,663.7	1,663.4	5.2	12.4	39.66	1,011.7	206.1	1,027.1	1,010.1	17.03	60.325		
1,710.0	1,709.8	1,673.4	1,673.1	5.2	12.4	39.69	1,011.7	206.1	1,026.6	1,009.5	17.07	60.149		
1,800.0	1,799.5	1,760.6	1,760.4	5.4	12.5	40.04	1,011.8	205.9	1,020.5	1,003.1	17.43	58.538		
1,805.0	1,804.4	1,765.5	1,765.2	5.4	12.5	40.06	1,011.8	205.9	1,020.1	1,002.6	17.45	58.445		
1,900.0	1,898.7	1,857.5	1,857.3	5.7	12.7	40.59	1,012.2	206.0	1,011.5	993.7	17.86	56.645		
1,925.1	1,923.5	1,882.3	1,882.0	5.8	12.8	40.75	1,012.3	206.0	1,008.9	990.9	17.93	56.254		
1,995.0	1,992.7	1,951.1	1,950.8	5.9	12.9	41.14	1,012.6	206.2	1,001.4	983.2	18.20	55.034		
2,000.0	1,997.6	1,956.0	1,955.8	5.9	12.9	41.17	1,012.6	206.2	1,000.8	982.6	18.21	54.948		
2,090.0	2,086.6	2,044.8	2,044.5	6.1	13.1	41.69	1,013.0	206.6	991.3	972.7	18.60	53.295		
2,100.0	2,096.5	2,054.7	2,054.4	6.2	13.2	41.74	1,013.0	206.6	990.2	971.6	18.64	53.113		
2,185.0	2,180.6	2,139.2	2,138.9	6.4	13.4	42.25	1,013.4	206.9	981.3	962.2	19.02	51.581		
2,200.0	2,195.4	2,154.1	2,153.9	6.4	13.4	42.33	1,013.4	207.0	979.7	960.6	19.09	51.317		
2,280.0	2,274.5	2,233.7	2,233.4	6.7	13.6	42.81	1,013.8	207.2	971.3	951.8	19.46	49.920		
2,300.0	2,294.3	2,253.5	2,253.3	6.7	13.7	42.93	1,013.8	207.2	969.2	949.7	19.55	49.577		
2,375.0	2,368.5	2,327.9	2,327.6	7.0	13.9	43.39	1,014.1	207.4	961.4	941.5	19.90	48.305		
2,400.0	2,393.2	2,352.7	2,352.4	7.0	13.9	43.54	1,014.2	207.5	958.8	938.8	20.02	47.892		
2,470.0	2,462.5	2,422.1	2,421.8	7.3	14.1	43.98	1,014.4	207.7	951.6	931.2	20.35	46.750		

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	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
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)			
2,500.0	2,492.1	2,452.0	2,451.8	7.4	14.2	44.17	1,014.5	207.8	948.5	928.0	20.49	46.281	
2,565.0	2,556.4	2,516.8	2,516.6	7.6	14.3	44.59	1,014.7	208.0	941.8	921.0	20.80	45.283	
2,600.0	2,591.0	2,551.7	2,551.5	7.7	14.4	44.82	1,014.7	208.2	938.2	917.2	20.96	44.758	
2,660.0	2,650.4	2,611.5	2,611.3	7.9	14.5	45.22	1,014.8	208.4	932.0	910.8	21.24	43.873	
2,700.0	2,689.9	2,651.3	2,651.0	8.1	14.6	45.48	1,014.9	208.6	928.0	906.5	21.44	43.279	
2,755.0	2,744.3	2,705.9	2,705.6	8.2	14.8	45.85	1,014.9	208.8	922.3	900.6	21.72	42.475	
2,800.0	2,788.8	2,750.6	2,750.3	8.4	14.9	46.15	1,015.0	208.8	917.8	895.8	21.94	41.834	
2,850.0	2,838.3	2,800.3	2,800.0	8.6	15.0	46.49	1,015.1	208.9	912.7	890.5	22.19	41.136	
2,900.0	2,887.7	2,849.6	2,849.3	8.8	15.2	46.82	1,015.2	208.9	907.7	885.2	22.50	40.350	
2,945.0	2,932.2	2,894.0	2,893.7	8.9	15.4	47.12	1,015.2	208.8	903.2	880.4	22.78	39.650	
3,000.0	2,986.6	2,948.2	2,947.9	9.1	15.6	47.49	1,015.4	208.8	897.8	874.7	23.13	38.822	
3,040.0	3,026.2	2,987.6	2,987.3	9.3	15.7	47.77	1,015.5	208.7	893.9	870.5	23.38	38.235	
3,100.0	3,085.5	3,047.0	3,046.7	9.5	15.9	48.18	1,015.6	208.7	888.0	864.3	23.76	37.375	
3,135.0	3,120.1	3,081.6	3,081.4	9.6	16.0	48.42	1,015.7	208.6	884.6	860.6	23.98	36.886	
3,200.0	3,184.4	3,146.0	3,145.7	9.9	16.3	48.88	1,015.9	208.5	878.4	854.0	24.39	36.007	
3,230.0	3,214.1	3,175.7	3,175.5	10.0	16.4	49.09	1,016.0	208.5	875.5	850.9	24.58	35.612	
3,300.0	3,283.3	3,245.2	3,244.9	10.3	16.6	49.60	1,016.2	208.4	868.8	843.8	25.02	34.723	
3,325.0	3,308.1	3,270.0	3,269.7	10.4	16.7	49.78	1,016.2	208.3	866.5	841.3	25.18	34.414	
3,400.0	3,382.2	3,344.4	3,344.2	10.7	17.0	50.33	1,016.4	208.3	859.4	833.8	25.64	33.515	
3,420.0	3,402.0	3,364.3	3,364.0	10.7	17.0	50.48	1,016.4	208.3	857.6	831.8	25.77	33.281	
3,500.0	3,481.1	3,444.3	3,444.0	11.1	17.2	51.10	1,016.5	208.2	850.1	823.9	26.17	32.490	
3,515.0	3,496.0	3,459.3	3,459.0	11.1	17.3	51.21	1,016.5	208.2	848.7	822.5	26.24	32.349	
3,600.0	3,580.0	3,544.4	3,544.2	11.5	17.5	51.88	1,016.5	208.2	840.8	814.1	26.63	31.567	
3,610.0	3,589.9	3,554.5	3,554.2	11.5	17.5	51.96	1,016.5	208.2	839.9	813.2	26.68	31.477	
3,700.0	3,678.9	3,643.4	3,643.1	11.9	17.7	52.68	1,016.3	208.1	831.5	804.4	27.11	30.673	
3,705.0	3,683.9	3,648.3	3,648.1	11.9	17.7	52.72	1,016.3	208.1	831.1	803.9	27.13	30.629	
3,800.0	3,777.8	3,742.0	3,741.8	12.3	18.0	53.49	1,016.3	208.0	822.5	794.9	27.58	29.818	
3,895.0	3,871.8	3,836.7	3,836.4	12.6	18.2	54.27	1,016.2	207.9	814.0	786.0	28.02	29.046	
3,900.0	3,876.7	3,841.7	3,841.4	12.7	18.2	54.31	1,016.2	207.9	813.6	785.5	28.05	29.006	
3,990.0	3,965.8	3,931.5	3,931.2	13.0	18.5	55.08	1,016.0	207.7	805.6	777.1	28.46	28.306	
4,000.0	3,975.6	3,941.4	3,941.1	13.1	18.5	55.16	1,016.0	207.7	804.7	776.2	28.51	28.230	
4,085.0	4,059.7	4,025.9	4,025.6	13.4	18.8	55.90	1,015.8	207.5	797.3	768.4	28.91	27.581	
4,100.0	4,074.5	4,040.7	4,040.5	13.5	18.8	56.03	1,015.8	207.4	796.0	767.0	28.98	27.469	
4,127.7	4,101.9	4,068.2	4,068.0	13.6	18.9	56.27	1,015.7	207.4	793.6	764.5	29.09	27.278	
4,180.0	4,153.7	4,120.2	4,119.9	13.8	19.0	56.68	1,015.6	207.2	789.2	759.9	29.32	26.914	
4,200.0	4,173.5	4,140.1	4,139.8	13.9	19.1	56.83	1,015.5	207.1	787.6	758.2	29.41	26.778	
4,275.0	4,247.9	4,214.5	4,214.2	14.2	19.3	57.36	1,015.3	206.8	782.0	752.3	29.76	26.281	
4,300.0	4,272.7	4,239.4	4,239.1	14.3	19.4	57.53	1,015.2	206.7	780.3	750.4	29.87	26.122	
4,370.0	4,342.3	4,309.0	4,308.7	14.5	19.6	57.97	1,015.0	206.5	775.8	745.6	30.19	25.697	
4,400.0	4,372.1	4,338.8	4,338.5	14.6	19.7	58.14	1,015.0	206.4	774.0	743.7	30.33	25.523	
4,465.0	4,436.8	4,403.1	4,402.8	14.9	19.9	58.49	1,014.8	206.2	770.5	739.9	30.62	25.163	
4,500.0	4,471.7	4,437.7	4,437.5	15.0	20.0	58.67	1,014.7	206.1	768.8	738.0	30.78	24.978	
4,560.0	4,531.5	4,497.2	4,496.9	15.2	20.2	58.93	1,014.6	205.9	766.2	735.1	31.05	24.677	
4,600.0	4,571.4	4,537.0	4,536.7	15.4	20.3	59.09	1,014.5	205.8	764.6	733.4	31.23	24.485	
4,655.0	4,626.3	4,592.2	4,591.9	15.6	20.5	59.29	1,014.4	205.7	762.7	731.2	31.47	24.235	
4,700.0	4,671.2	4,637.4	4,637.1	15.7	20.6	59.42	1,014.3	205.5	761.4	729.7	31.67	24.038	
4,750.0	4,721.2	4,687.6	4,687.3	15.9	20.7	59.55	1,014.2	205.3	760.0	728.2	31.89	23.831	
4,800.0	4,771.1	4,737.2	4,736.9	16.0	20.9	59.65	1,014.1	205.2	759.0	726.8	32.11	23.633	
4,845.0	4,816.1	4,781.3	4,781.0	16.2	21.0	59.71	1,014.0	205.0	758.2	725.9	32.30	23.471	
4,900.0	4,871.1	4,835.3	4,835.0	16.3	21.1	59.77	1,014.0	204.9	757.6	725.1	32.54	23.281	
4,940.0	4,911.1	4,874.5	4,874.2	16.4	21.3	59.79	1,014.0	204.8	757.4	724.7	32.69	23.169	

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	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)	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
4,970.0	4,941.1	4,904.0	4,903.7	16.4	21.3	59.79		1,014.0	204.8	757.3	724.5	32.80	23.088	
4,977.9	4,949.0	4,911.8	4,911.5	16.4	21.4	31.96		1,014.0	204.8	757.3	724.5	32.83	23.067	
5,000.0	4,971.1	4,933.8	4,933.5	16.4	21.4	31.96		1,014.0	204.8	757.4	724.4	32.90	23.019	
5,035.0	5,006.1	4,968.6	4,968.3	16.5	21.5	31.96		1,014.1	204.8	757.4	724.4	33.03	22.930	
5,100.0	5,071.1	5,047.3	5,047.1	16.5	21.9	31.99		1,013.6	205.0	757.1	723.8	33.38	22.681	
5,130.0	5,101.1	5,088.8	5,088.5	16.5	22.1	32.07		1,012.2	205.3	756.4	722.8	33.57	22.530	
5,200.0	5,171.1	5,192.8	5,192.2	16.6	22.8	32.46		1,004.6	206.6	752.6	718.3	34.28	21.958	
5,225.0	5,196.1	5,216.2	5,215.4	16.6	22.9	32.58		1,002.3	207.0	750.7	716.4	34.35	21.854	
5,300.0	5,271.1	5,291.1	5,290.0	16.6	23.1	32.97		994.8	208.3	745.1	710.5	34.64	21.513	
5,320.0	5,291.1	5,311.3	5,310.1	16.6	23.2	33.08		992.8	208.6	743.6	708.9	34.70	21.431	
5,400.0	5,371.1	5,391.6	5,390.0	16.7	23.4	33.49		984.9	209.7	737.6	702.6	34.96	21.100	
5,415.0	5,386.1	5,406.3	5,404.6	16.7	23.5	33.56		983.4	209.9	736.4	701.4	35.01	21.038	
5,500.0	5,471.1	5,489.8	5,487.7	16.7	23.7	33.98		975.4	210.8	730.1	694.9	35.28	20.693	
5,510.0	5,481.1	5,499.7	5,497.5	16.7	23.7	34.02		974.4	211.0	729.4	694.1	35.32	20.653	
5,600.0	5,571.1	5,588.8	5,586.3	16.8	24.0	34.45		966.0	211.8	722.9	687.3	35.62	20.297	
5,605.0	5,576.1	5,593.8	5,591.3	16.8	24.0	34.48		965.6	211.8	722.5	686.9	35.63	20.277	
5,700.0	5,671.1	5,687.5	5,684.5	16.8	24.3	34.92		956.9	212.6	715.7	679.8	35.95	19.908	
5,795.0	5,766.1	5,777.4	5,774.1	16.9	24.5	35.35		948.9	213.5	709.4	673.1	36.28	19.555	
5,800.0	5,771.1	5,782.1	5,778.8	16.9	24.6	35.37		948.5	213.5	709.0	672.8	36.29	19.537	
5,890.0	5,861.1	5,867.2	5,863.6	17.0	24.8	35.73		941.8	214.2	703.7	667.1	36.60	19.224	
5,900.0	5,871.1	5,876.6	5,872.9	17.0	24.8	35.77		941.2	214.3	703.1	666.5	36.64	19.191	
5,985.0	5,956.1	5,957.3	5,953.4	17.0	25.1	36.08		935.6	214.9	698.8	661.8	36.94	18.919	
6,000.0	5,971.1	5,974.5	5,970.6	17.0	25.1	36.14		934.4	215.0	698.0	661.0	36.99	18.872	
6,080.0	6,051.1	6,062.3	6,058.1	17.1	25.4	36.48		927.8	215.3	693.2	656.0	37.26	18.603	
6,100.0	6,071.1	6,080.7	6,076.5	17.1	25.4	36.56		926.3	215.3	692.0	654.6	37.33	18.534	
6,175.0	6,146.1	6,150.1	6,145.7	17.1	25.7	36.82		921.2	215.5	687.7	650.1	37.60	18.290	
6,200.0	6,171.1	6,174.0	6,169.6	17.1	25.7	36.91		919.6	215.6	686.4	648.7	37.69	18.212	
6,270.0	6,241.1	6,241.8	6,237.2	17.2	25.9	37.12		915.4	215.6	682.9	645.0	37.94	18.000	
6,300.0	6,271.1	6,274.5	6,269.9	17.2	26.0	37.22		913.4	215.5	681.4	643.4	38.05	17.909	
6,365.0	6,336.1	6,343.0	6,338.2	17.2	26.2	37.47		908.5	215.5	677.8	639.5	38.28	17.704	
6,400.0	6,371.1	6,374.3	6,369.5	17.3	26.3	37.58		906.4	215.5	675.8	637.4	38.41	17.594	
6,460.0	6,431.1	6,428.4	6,423.4	17.3	26.5	37.75		903.2	215.5	673.0	634.4	38.64	17.418	
6,500.0	6,471.1	6,470.1	6,465.1	17.3	26.6	37.86		900.8	215.4	671.2	632.4	38.79	17.304	
6,555.0	6,526.1	6,526.9	6,521.8	17.3	26.8	38.04		897.5	215.4	668.6	629.6	39.00	17.144	
6,600.0	6,571.1	6,568.6	6,563.4	17.4	27.0	38.17		895.0	215.4	666.5	627.3	39.16	17.019	
6,650.0	6,621.1	6,618.0	6,612.7	17.4	27.1	38.33		892.3	215.6	664.5	625.1	39.34	16.889	
6,700.0	6,671.1	6,664.2	6,658.8	17.4	27.3	38.48		889.8	215.9	662.6	623.0	39.53	16.763	
6,745.0	6,716.1	6,708.7	6,703.3	17.5	27.4	38.62		887.6	216.1	660.9	621.2	39.69	16.652	
6,800.0	6,771.1	6,761.3	6,755.8	17.5	27.6	38.77		885.0	216.4	659.0	619.1	39.89	16.520	
6,840.0	6,811.1	6,799.5	6,794.0	17.5	27.7	38.87		883.3	216.5	657.7	617.7	40.04	16.428	
6,900.0	6,871.1	6,854.0	6,848.5	17.6	27.8	38.99		881.4	216.6	656.2	615.9	40.27	16.295	
6,935.0	6,906.1	6,885.6	6,880.0	17.6	28.0	39.02		880.7	216.5	655.5	615.1	40.40	16.224	
7,000.0	6,971.1	6,948.2	6,942.6	17.6	28.2	39.03		880.0	216.1	654.6	614.0	40.66	16.099	
7,030.0	7,001.1	6,977.9	6,972.3	17.6	28.2	39.03		879.7	215.9	654.2	613.5	40.78	16.042	
7,063.6	7,034.7	7,003.6	6,998.1	17.7	28.3	39.02		879.5	215.7	654.0	613.0	40.90	15.989 CC, ES	
7,100.0	7,071.1	7,022.0	7,016.4	17.7	28.4	38.99		879.9	215.4	654.3	613.3	40.99	15.962	
7,125.0	7,096.1	7,040.3	7,034.7	17.7	28.5	38.92		880.8	215.1	655.0	614.0	41.08	15.944 SF	
7,200.0	7,171.1	7,076.0	7,070.2	17.7	28.6	38.68		884.3	214.4	660.0	618.8	41.21	16.013	
7,220.0	7,191.1	7,086.0	7,080.1	17.7	28.6	38.59		885.8	214.2	662.1	620.8	41.24	16.054	
7,300.0	7,271.1	7,117.0	7,110.5	17.8	28.7	38.24		891.8	213.8	673.8	632.6	41.20	16.355	
7,315.0	7,286.1	7,127.5	7,120.7	17.8	28.8	38.09		894.3	213.7	676.5	635.3	41.23	16.409	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	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		
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance			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)	Minimum Separation (usft)			
7,400.0	7,371.1	7,168.1	7,159.5	17.9	28.9	37.41	906.2	212.8	695.4	654.2	41.16	16.894		
7,410.0	7,381.1	7,173.1	7,164.2	17.9	28.9	37.31	907.8	212.6	697.9	656.8	41.15	16.960		
7,500.0	7,471.1	7,213.0	7,201.2	17.9	29.0	36.48	922.7	211.5	724.0	683.1	40.95	17.680		
7,505.0	7,476.1	7,213.0	7,201.2	17.9	29.0	36.48	922.7	211.5	725.7	684.8	40.91	17.740		
7,600.0	7,571.1	7,255.8	7,239.6	18.0	29.1	35.47	941.7	210.2	759.6	719.0	40.64	18.691		
7,695.0	7,666.1	7,294.4	7,272.9	18.0	29.2	34.50	961.1	209.1	799.3	759.0	40.27	19.846		
7,700.0	7,671.1	7,296.3	7,274.5	18.0	29.2	34.45	962.1	209.1	801.5	761.2	40.25	19.912		
7,790.0	7,761.1	7,328.7	7,301.4	18.1	29.3	33.59	980.2	208.1	844.2	804.4	39.82	21.202		
7,800.0	7,771.1	7,340.0	7,310.5	18.1	29.3	33.28	986.9	207.8	849.4	809.5	39.91	21.280		
7,885.0	7,856.1	7,360.2	7,326.3	18.2	29.4	32.71	999.3	207.1	894.3	854.9	39.33	22.739		
7,900.0	7,871.1	7,372.0	7,335.4	18.2	29.4	32.37	1,006.9	206.7	902.7	863.3	39.38	22.921		
7,980.0	7,951.1	7,389.2	7,348.3	18.2	29.4	31.87	1,018.2	206.1	948.8	910.0	38.82	24.440		
8,000.0	7,971.1	7,404.0	7,359.1	18.2	29.5	31.44	1,028.3	205.4	960.9	922.1	38.88	24.715		
8,075.0	8,046.1	7,415.4	7,367.2	18.3	29.5	31.10	1,036.3	205.0	1,007.4	969.1	38.31	26.298		
8,100.0	8,071.1	7,421.8	7,371.7	18.3	29.5	30.91	1,040.8	204.7	1,023.5	985.3	38.17	26.811		
8,170.0	8,141.1	7,435.0	7,380.8	18.3	29.6	30.52	1,050.4	204.1	1,069.8	1,032.0	37.73	28.351		
8,200.0	8,171.1	7,445.9	7,388.1	18.3	29.6	30.20	1,058.4	203.7	1,090.1	1,052.5	37.66	28.950		
8,265.0	8,236.1	7,467.0	7,401.9	18.4	29.6	29.57	1,074.5	202.8	1,135.4	1,097.9	37.44	30.322		
8,300.0	8,271.1	7,467.0	7,401.9	18.4	29.6	29.57	1,074.5	202.8	1,160.2	1,123.1	37.15	31.232		
8,360.0	8,331.1	7,479.5	7,409.7	18.4	29.6	29.21	1,084.2	202.3	1,203.8	1,166.9	36.93	32.596		
8,402.9	8,374.0	7,487.5	7,414.6	18.5	29.7	28.97	1,090.6	202.0	1,235.6	1,198.8	36.78	33.593		
8,450.0	8,421.1	7,499.0	7,421.4	18.5	29.7	-149.04	1,099.8	201.6	1,272.1	1,235.4	36.67	34.694		
8,455.0	8,426.0	7,499.0	7,421.4	18.5	29.7	-148.69	1,099.8	201.6	1,276.1	1,239.5	36.64	34.830		
8,500.0	8,470.7	7,499.0	7,421.4	18.6	29.7	-145.00	1,099.8	201.6	1,313.6	1,277.1	36.42	36.071		

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	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 3153.9ft @ 3185.9usft

Offset Depths are relative to Offset Datum

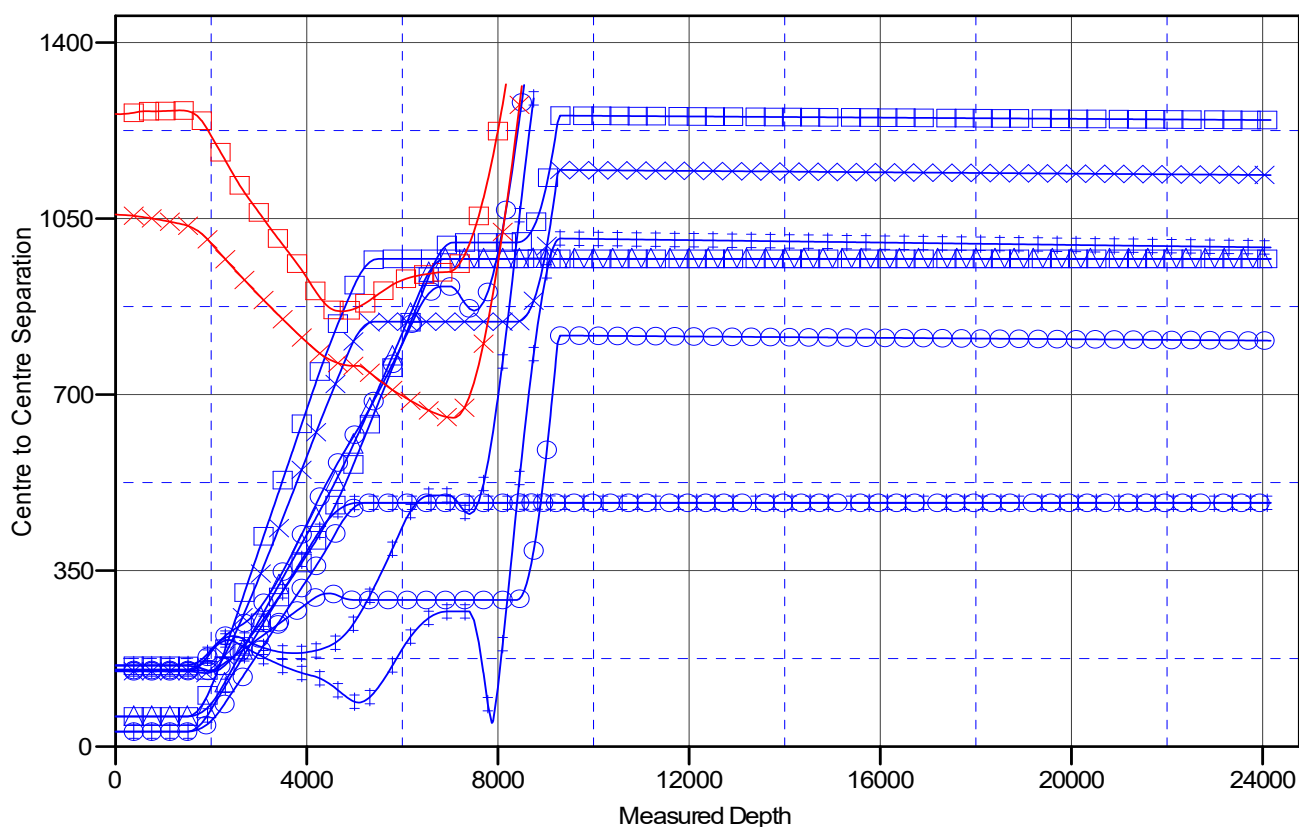
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: FLAMING SNAIL FEDERAL COM #708H

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

Grid Convergence at Surface is: 0.07°

Ladder Plot



LEGEND

FLAMING SNAIL FEDERAL COM #503H, OWB, PWP0 V0	FLAMING SNAIL FEDERAL COM #707H, OWB, PWP1 V0	FLAMING SNAIL FEDERAL COM #805H, OWB, PWP1 V0
FLAMING SNAIL FEDERAL COM #504H, OWB, PWP0 V0	FLAMING SNAIL FEDERAL COM #709H, OWB, PWP1 V0	FLAMING SNAIL FEDERAL COM #806H, OWB, PWP1 V0
FLAMING SNAIL FEDERAL COM #521H, OWB, PWP0 V0	FLAMING SNAIL FEDERAL COM #710H, OWB, PWP1 V0	WHITE CITY 21 25 27 FEDERAL COM #5H, OWB, AWP V0
FLAMING SNAIL FEDERAL COM #708H, OWB, PWP1 V0	FLAMING SNAIL FEDERAL COM #804H, OWB, PWP1 V0	WHITE CITY 21 25 27 FEDERAL COM #6H, OWB, AWP V0

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #708H	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 3153.9ft @ 3185.9usft

Offset Depths are relative to Offset Datum

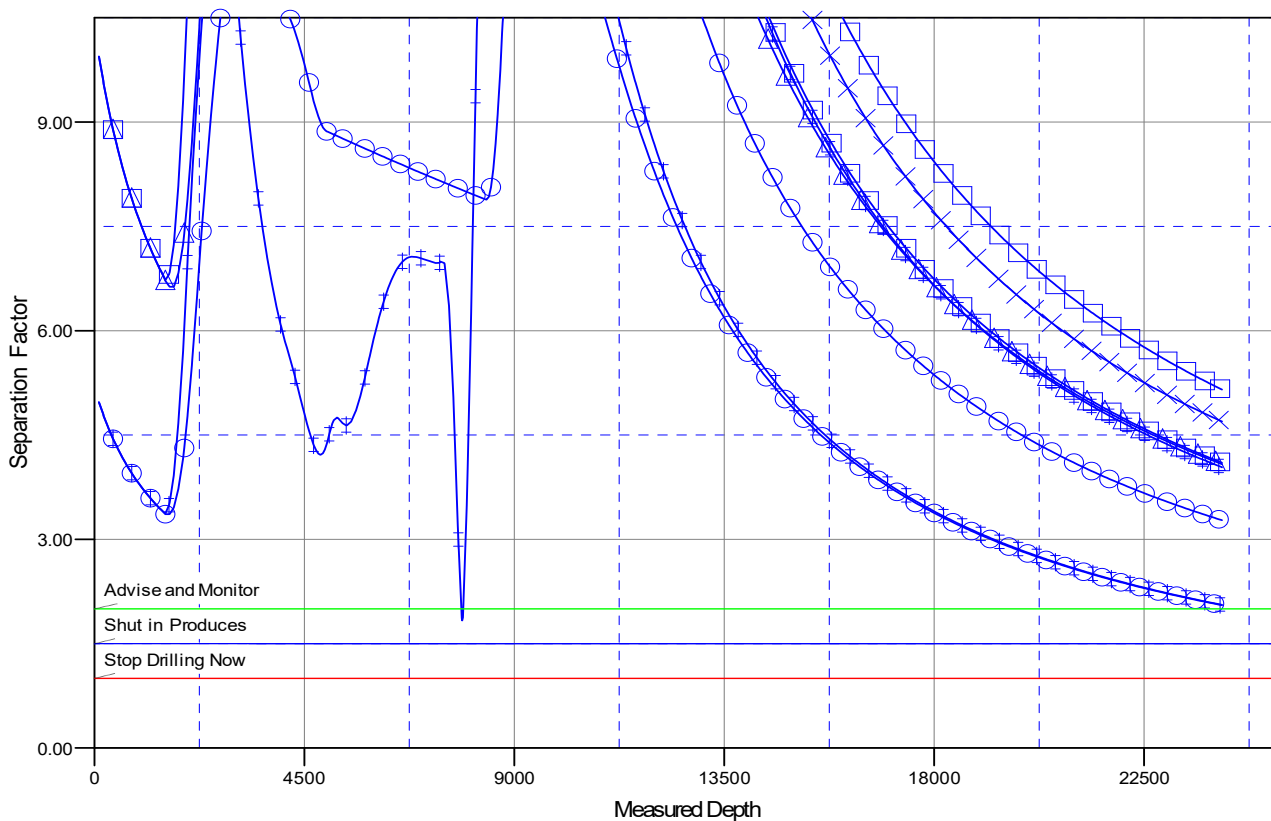
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: FLAMING SNAIL FEDERAL COM #708H

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

Grid Convergence at Surface is: 0.07°

Separation Factor Plot



LEGEND

FLAMING SNAIL FEDERAL COM #503H, OWB, PWP0 V0	FLAMING SNAIL FEDERAL COM #707H, OWB, PWP1 V0	FLAMING SNAIL FEDERAL COM #805H, OWB, PWP1 V0
FLAMING SNAIL FEDERAL COM #504H, OWB, PWP0 V0	FLAMING SNAIL FEDERAL COM #708H, OWB, PWP1 V0	FLAMING SNAIL FEDERAL COM #806H, OWB, PWP1 V0
FLAMING SNAIL FEDERAL COM #521H, OWB, PWP0 V0	FLAMING SNAIL FEDERAL COM #710H, OWB, PWP1 V0	WHITE CITY 21 25 27 FEDERAL COM #5H, OWB, AWP V0
FLAMING SNAIL FEDERAL COM #706H, OWB, PWP1 V0	FLAMING SNAIL FEDERAL COM #804H, OWB, PWP1 V0	WHITE CITY 21 25 27 FEDERAL COM #6H, OWB, AWP 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 #708H

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 #708H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #708H	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 #708H		
Well Position	+N/-S	-643.1 usft	Northing:
	+E/-W	1,755.6 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	47,314.31414191

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	181.27

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	8,402.9 PWP1 (OWB)	r.5 MWD+IFR1 OWSG MWD + IFR1 rev.5		
3	8,402.9	24,170.2 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 #708H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #708H	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	
1,925.1	8.50	332.17	1,923.5	27.8	-14.7	2.00	2.00	0.00	332.17	
4,127.7	8.50	332.17	4,101.9	315.8	-166.7	0.00	0.00	0.00	0.00	
4,977.9	0.00	0.00	4,949.0	371.5	-196.1	1.00	-1.00	0.00	180.00	
8,402.9	0.00	0.00	8,374.0	371.5	-196.1	0.00	0.00	0.00	0.00	
9,302.1	89.92	180.51	8,947.0	-200.6	-201.2	10.00	10.00	-19.96	180.51	
24,040.2	89.92	180.51	8,968.8	-14,938.1	-332.0	0.00	0.00	0.00	0.00	LTP (FLAMING SNAIL)
24,170.2	89.92	180.51	8,969.0	-15,068.1	-333.2	0.00	0.00	0.00	0.00	PBHL (FLAMING SNAIL)

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #708H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #708H	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	332.17	1,600.0	1.5	-0.8	-1.5	2.00	2.00	0.00
1,700.0	4.00	332.17	1,699.8	6.2	-3.3	-6.1	2.00	2.00	0.00
1,800.0	6.00	332.17	1,799.5	13.9	-7.3	-13.7	2.00	2.00	0.00
1,900.0	8.00	332.17	1,898.7	24.7	-13.0	-24.4	2.00	2.00	0.00
1,925.1	8.50	332.17	1,923.5	27.8	-14.7	-27.5	2.00	2.00	0.00
Start 2202.6 hold at 1925.1 MD									
2,000.0	8.50	332.17	1,997.6	37.6	-19.9	-37.2	0.00	0.00	0.00
2,100.0	8.50	332.17	2,096.5	50.7	-26.8	-50.1	0.00	0.00	0.00
2,200.0	8.50	332.17	2,195.4	63.8	-33.7	-63.0	0.00	0.00	0.00
2,300.0	8.50	332.17	2,294.3	76.9	-40.6	-75.9	0.00	0.00	0.00
2,400.0	8.50	332.17	2,393.2	89.9	-47.5	-88.9	0.00	0.00	0.00
2,500.0	8.50	332.17	2,492.1	103.0	-54.4	-101.8	0.00	0.00	0.00
2,600.0	8.50	332.17	2,591.0	116.1	-61.3	-114.7	0.00	0.00	0.00
2,700.0	8.50	332.17	2,689.9	129.2	-68.2	-127.6	0.00	0.00	0.00
2,800.0	8.50	332.17	2,788.8	142.2	-75.1	-140.5	0.00	0.00	0.00
2,900.0	8.50	332.17	2,887.7	155.3	-82.0	-153.5	0.00	0.00	0.00
3,000.0	8.50	332.17	2,986.6	168.4	-88.9	-166.4	0.00	0.00	0.00
3,100.0	8.50	332.17	3,085.5	181.5	-95.8	-179.3	0.00	0.00	0.00
3,200.0	8.50	332.17	3,184.4	194.5	-102.7	-192.2	0.00	0.00	0.00
3,300.0	8.50	332.17	3,283.3	207.6	-109.6	-205.1	0.00	0.00	0.00
3,400.0	8.50	332.17	3,382.2	220.7	-116.5	-218.0	0.00	0.00	0.00
3,500.0	8.50	332.17	3,481.1	233.8	-123.4	-231.0	0.00	0.00	0.00
3,600.0	8.50	332.17	3,580.0	246.8	-130.3	-243.9	0.00	0.00	0.00
3,700.0	8.50	332.17	3,678.9	259.9	-137.2	-256.8	0.00	0.00	0.00
3,800.0	8.50	332.17	3,777.8	273.0	-144.1	-269.7	0.00	0.00	0.00
3,900.0	8.50	332.17	3,876.7	286.0	-151.0	-282.6	0.00	0.00	0.00
4,000.0	8.50	332.17	3,975.6	299.1	-157.9	-295.6	0.00	0.00	0.00
4,100.0	8.50	332.17	4,074.5	312.2	-164.8	-308.5	0.00	0.00	0.00
4,127.7	8.50	332.17	4,101.9	315.8	-166.7	-312.1	0.00	0.00	0.00
Start Drop -1.00									
4,200.0	7.78	332.17	4,173.5	324.9	-171.5	-321.0	1.00	-1.00	0.00
4,300.0	6.78	332.17	4,272.7	336.1	-177.4	-332.1	1.00	-1.00	0.00
4,400.0	5.78	332.17	4,372.1	345.7	-182.5	-341.6	1.00	-1.00	0.00
4,500.0	4.78	332.17	4,471.7	353.9	-186.8	-349.7	1.00	-1.00	0.00
4,600.0	3.78	332.17	4,571.4	360.5	-190.3	-356.2	1.00	-1.00	0.00
4,700.0	2.78	332.17	4,671.2	365.5	-193.0	-361.2	1.00	-1.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #708H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #708H	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)
4,800.0	1.78	332.17	4,771.1	369.1	-194.8	-364.7	1.00	-1.00	0.00
4,900.0	0.78	332.17	4,871.1	371.0	-195.9	-366.6	1.00	-1.00	0.00
4,977.9	0.00	0.00	4,949.0	371.5	-196.1	-367.1	1.00	-1.00	35.73
Start 3425.0 hold at 4977.9 MD									
5,000.0	0.00	0.00	4,971.1	371.5	-196.1	-367.1	0.00	0.00	0.00
5,100.0	0.00	0.00	5,071.1	371.5	-196.1	-367.1	0.00	0.00	0.00
5,200.0	0.00	0.00	5,171.1	371.5	-196.1	-367.1	0.00	0.00	0.00
5,300.0	0.00	0.00	5,271.1	371.5	-196.1	-367.1	0.00	0.00	0.00
5,400.0	0.00	0.00	5,371.1	371.5	-196.1	-367.1	0.00	0.00	0.00
5,500.0	0.00	0.00	5,471.1	371.5	-196.1	-367.1	0.00	0.00	0.00
5,600.0	0.00	0.00	5,571.1	371.5	-196.1	-367.1	0.00	0.00	0.00
5,700.0	0.00	0.00	5,671.1	371.5	-196.1	-367.1	0.00	0.00	0.00
5,800.0	0.00	0.00	5,771.1	371.5	-196.1	-367.1	0.00	0.00	0.00
5,900.0	0.00	0.00	5,871.1	371.5	-196.1	-367.1	0.00	0.00	0.00
6,000.0	0.00	0.00	5,971.1	371.5	-196.1	-367.1	0.00	0.00	0.00
6,100.0	0.00	0.00	6,071.1	371.5	-196.1	-367.1	0.00	0.00	0.00
6,200.0	0.00	0.00	6,171.1	371.5	-196.1	-367.1	0.00	0.00	0.00
6,300.0	0.00	0.00	6,271.1	371.5	-196.1	-367.1	0.00	0.00	0.00
6,400.0	0.00	0.00	6,371.1	371.5	-196.1	-367.1	0.00	0.00	0.00
6,500.0	0.00	0.00	6,471.1	371.5	-196.1	-367.1	0.00	0.00	0.00
6,600.0	0.00	0.00	6,571.1	371.5	-196.1	-367.1	0.00	0.00	0.00
6,700.0	0.00	0.00	6,671.1	371.5	-196.1	-367.1	0.00	0.00	0.00
6,800.0	0.00	0.00	6,771.1	371.5	-196.1	-367.1	0.00	0.00	0.00
6,900.0	0.00	0.00	6,871.1	371.5	-196.1	-367.1	0.00	0.00	0.00
7,000.0	0.00	0.00	6,971.1	371.5	-196.1	-367.1	0.00	0.00	0.00
7,100.0	0.00	0.00	7,071.1	371.5	-196.1	-367.1	0.00	0.00	0.00
7,200.0	0.00	0.00	7,171.1	371.5	-196.1	-367.1	0.00	0.00	0.00
7,300.0	0.00	0.00	7,271.1	371.5	-196.1	-367.1	0.00	0.00	0.00
7,400.0	0.00	0.00	7,371.1	371.5	-196.1	-367.1	0.00	0.00	0.00
7,500.0	0.00	0.00	7,471.1	371.5	-196.1	-367.1	0.00	0.00	0.00
7,600.0	0.00	0.00	7,571.1	371.5	-196.1	-367.1	0.00	0.00	0.00
7,700.0	0.00	0.00	7,671.1	371.5	-196.1	-367.1	0.00	0.00	0.00
7,800.0	0.00	0.00	7,771.1	371.5	-196.1	-367.1	0.00	0.00	0.00
7,900.0	0.00	0.00	7,871.1	371.5	-196.1	-367.1	0.00	0.00	0.00
8,000.0	0.00	0.00	7,971.1	371.5	-196.1	-367.1	0.00	0.00	0.00
8,100.0	0.00	0.00	8,071.1	371.5	-196.1	-367.1	0.00	0.00	0.00
8,200.0	0.00	0.00	8,171.1	371.5	-196.1	-367.1	0.00	0.00	0.00
8,300.0	0.00	0.00	8,271.1	371.5	-196.1	-367.1	0.00	0.00	0.00
8,402.9	0.00	0.00	8,374.0	371.5	-196.1	-367.1	0.00	0.00	0.00
Start DLS 10.00 TFO 180.51									
8,450.0	4.71	180.51	8,421.1	369.6	-196.1	-365.1	10.00	10.00	0.00
8,500.0	9.71	180.51	8,470.7	363.3	-196.2	-358.9	10.00	10.00	0.00
8,550.0	14.71	180.51	8,519.5	352.7	-196.3	-348.3	10.00	10.00	0.00
8,600.0	19.71	180.51	8,567.3	337.9	-196.4	-333.5	10.00	10.00	0.00
8,650.0	24.71	180.51	8,613.5	319.0	-196.6	-314.6	10.00	10.00	0.00
8,700.0	29.71	180.51	8,658.0	296.2	-196.8	-291.8	10.00	10.00	0.00
8,750.0	34.71	180.51	8,700.3	269.6	-197.0	-265.1	10.00	10.00	0.00
8,800.0	39.71	180.51	8,740.1	239.3	-197.3	-234.9	10.00	10.00	0.00
8,850.0	44.71	180.51	8,777.1	205.8	-197.6	-201.3	10.00	10.00	0.00
8,900.0	49.71	180.51	8,811.1	169.1	-197.9	-164.7	10.00	10.00	0.00
8,950.0	54.71	180.51	8,841.7	129.6	-198.2	-125.2	10.00	10.00	0.00
9,000.0	59.71	180.51	8,868.8	87.6	-198.6	-83.1	10.00	10.00	0.00
9,050.0	64.71	180.51	8,892.1	43.3	-199.0	-38.9	10.00	10.00	0.00
9,100.0	69.71	180.51	8,911.4	-2.7	-199.4	7.1	10.00	10.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #708H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #708H	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)
9,150.0	74.71	180.51	8,926.7	-50.3	-199.8	54.7	10.00	10.00	0.00
9,200.0	79.71	180.51	8,937.8	-99.1	-200.3	103.5	10.00	10.00	0.00
9,250.0	84.71	180.51	8,944.6	-148.6	-200.7	153.0	10.00	10.00	0.00
9,302.1	89.92	180.51	8,947.0	-200.6	-201.2	205.0	10.00	10.00	0.00
Start 14738.1 hold at 9302.1 MD									
9,400.0	89.92	180.51	8,947.1	-298.5	-202.0	302.9	0.00	0.00	0.00
9,500.0	89.92	180.51	8,947.3	-398.5	-202.9	402.9	0.00	0.00	0.00
9,600.0	89.92	180.51	8,947.4	-498.5	-203.8	502.9	0.00	0.00	0.00
9,700.0	89.92	180.51	8,947.6	-598.5	-204.7	602.9	0.00	0.00	0.00
9,800.0	89.92	180.51	8,947.7	-698.5	-205.6	702.9	0.00	0.00	0.00
9,900.0	89.92	180.51	8,947.9	-798.5	-206.5	802.9	0.00	0.00	0.00
10,000.0	89.92	180.51	8,948.0	-898.5	-207.4	902.8	0.00	0.00	0.00
10,100.0	89.92	180.51	8,948.2	-998.5	-208.3	1,002.8	0.00	0.00	0.00
10,200.0	89.92	180.51	8,948.3	-1,098.5	-209.1	1,102.8	0.00	0.00	0.00
10,300.0	89.92	180.51	8,948.5	-1,198.5	-210.0	1,202.8	0.00	0.00	0.00
10,400.0	89.92	180.51	8,948.6	-1,298.5	-210.9	1,302.8	0.00	0.00	0.00
10,500.0	89.92	180.51	8,948.8	-1,398.5	-211.8	1,402.8	0.00	0.00	0.00
10,600.0	89.92	180.51	8,948.9	-1,498.5	-212.7	1,502.8	0.00	0.00	0.00
10,700.0	89.92	180.51	8,949.1	-1,598.5	-213.6	1,602.8	0.00	0.00	0.00
10,800.0	89.92	180.51	8,949.2	-1,698.5	-214.5	1,702.8	0.00	0.00	0.00
10,900.0	89.92	180.51	8,949.4	-1,798.4	-215.4	1,802.8	0.00	0.00	0.00
11,000.0	89.92	180.51	8,949.5	-1,898.4	-216.2	1,902.8	0.00	0.00	0.00
11,100.0	89.92	180.51	8,949.7	-1,998.4	-217.1	2,002.8	0.00	0.00	0.00
11,200.0	89.92	180.51	8,949.8	-2,098.4	-218.0	2,102.7	0.00	0.00	0.00
11,300.0	89.92	180.51	8,950.0	-2,198.4	-218.9	2,202.7	0.00	0.00	0.00
11,400.0	89.92	180.51	8,950.1	-2,298.4	-219.8	2,302.7	0.00	0.00	0.00
11,500.0	89.92	180.51	8,950.3	-2,398.4	-220.7	2,402.7	0.00	0.00	0.00
11,600.0	89.92	180.51	8,950.4	-2,498.4	-221.6	2,502.7	0.00	0.00	0.00
11,700.0	89.92	180.51	8,950.5	-2,598.4	-222.5	2,602.7	0.00	0.00	0.00
11,800.0	89.92	180.51	8,950.7	-2,698.4	-223.4	2,702.7	0.00	0.00	0.00
11,900.0	89.92	180.51	8,950.8	-2,798.4	-224.2	2,802.7	0.00	0.00	0.00
12,000.0	89.92	180.51	8,951.0	-2,898.4	-225.1	2,902.7	0.00	0.00	0.00
12,100.0	89.92	180.51	8,951.1	-2,998.4	-226.0	3,002.7	0.00	0.00	0.00
12,200.0	89.92	180.51	8,951.3	-3,098.4	-226.9	3,102.7	0.00	0.00	0.00
12,300.0	89.92	180.51	8,951.4	-3,198.4	-227.8	3,202.6	0.00	0.00	0.00
12,400.0	89.92	180.51	8,951.6	-3,298.4	-228.7	3,302.6	0.00	0.00	0.00
12,500.0	89.92	180.51	8,951.7	-3,398.4	-229.6	3,402.6	0.00	0.00	0.00
12,600.0	89.92	180.51	8,951.9	-3,498.4	-230.5	3,502.6	0.00	0.00	0.00
12,700.0	89.92	180.51	8,952.0	-3,598.4	-231.3	3,602.6	0.00	0.00	0.00
12,800.0	89.92	180.51	8,952.2	-3,698.4	-232.2	3,702.6	0.00	0.00	0.00
12,900.0	89.92	180.51	8,952.3	-3,798.4	-233.1	3,802.6	0.00	0.00	0.00
13,000.0	89.92	180.51	8,952.5	-3,898.4	-234.0	3,902.6	0.00	0.00	0.00
13,100.0	89.92	180.51	8,952.6	-3,998.4	-234.9	4,002.6	0.00	0.00	0.00
13,200.0	89.92	180.51	8,952.8	-4,098.4	-235.8	4,102.6	0.00	0.00	0.00
13,300.0	89.92	180.51	8,952.9	-4,198.4	-236.7	4,202.6	0.00	0.00	0.00
13,400.0	89.92	180.51	8,953.1	-4,298.3	-237.6	4,302.5	0.00	0.00	0.00
13,500.0	89.92	180.51	8,953.2	-4,398.3	-238.4	4,402.5	0.00	0.00	0.00
13,600.0	89.92	180.51	8,953.4	-4,498.3	-239.3	4,502.5	0.00	0.00	0.00
13,700.0	89.92	180.51	8,953.5	-4,598.3	-240.2	4,602.5	0.00	0.00	0.00
13,800.0	89.92	180.51	8,953.7	-4,698.3	-241.1	4,702.5	0.00	0.00	0.00
13,900.0	89.92	180.51	8,953.8	-4,798.3	-242.0	4,802.5	0.00	0.00	0.00
14,000.0	89.92	180.51	8,954.0	-4,898.3	-242.9	4,902.5	0.00	0.00	0.00
14,100.0	89.92	180.51	8,954.1	-4,998.3	-243.8	5,002.5	0.00	0.00	0.00
14,200.0	89.92	180.51	8,954.2	-5,098.3	-244.7	5,102.5	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #708H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #708H	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	89.92	180.51	8,954.4	-5,198.3	-245.5	5,202.5	0.00	0.00	0.00
14,400.0	89.92	180.51	8,954.5	-5,298.3	-246.4	5,302.5	0.00	0.00	0.00
14,500.0	89.92	180.51	8,954.7	-5,398.3	-247.3	5,402.4	0.00	0.00	0.00
14,600.0	89.92	180.51	8,954.8	-5,498.3	-248.2	5,502.4	0.00	0.00	0.00
14,700.0	89.92	180.51	8,955.0	-5,598.3	-249.1	5,602.4	0.00	0.00	0.00
14,800.0	89.92	180.51	8,955.1	-5,698.3	-250.0	5,702.4	0.00	0.00	0.00
14,900.0	89.92	180.51	8,955.3	-5,798.3	-250.9	5,802.4	0.00	0.00	0.00
15,000.0	89.92	180.51	8,955.4	-5,898.3	-251.8	5,902.4	0.00	0.00	0.00
15,100.0	89.92	180.51	8,955.6	-5,998.3	-252.6	6,002.4	0.00	0.00	0.00
15,200.0	89.92	180.51	8,955.7	-6,098.3	-253.5	6,102.4	0.00	0.00	0.00
15,300.0	89.92	180.51	8,955.9	-6,198.3	-254.4	6,202.4	0.00	0.00	0.00
15,400.0	89.92	180.51	8,956.0	-6,298.3	-255.3	6,302.4	0.00	0.00	0.00
15,500.0	89.92	180.51	8,956.2	-6,398.3	-256.2	6,402.4	0.00	0.00	0.00
15,600.0	89.92	180.51	8,956.3	-6,498.3	-257.1	6,502.4	0.00	0.00	0.00
15,700.0	89.92	180.51	8,956.5	-6,598.3	-258.0	6,602.3	0.00	0.00	0.00
15,800.0	89.92	180.51	8,956.6	-6,698.2	-258.9	6,702.3	0.00	0.00	0.00
15,900.0	89.92	180.51	8,956.8	-6,798.2	-259.7	6,802.3	0.00	0.00	0.00
16,000.0	89.92	180.51	8,956.9	-6,898.2	-260.6	6,902.3	0.00	0.00	0.00
16,100.0	89.92	180.51	8,957.1	-6,998.2	-261.5	7,002.3	0.00	0.00	0.00
16,200.0	89.92	180.51	8,957.2	-7,098.2	-262.4	7,102.3	0.00	0.00	0.00
16,300.0	89.92	180.51	8,957.4	-7,198.2	-263.3	7,202.3	0.00	0.00	0.00
16,400.0	89.92	180.51	8,957.5	-7,298.2	-264.2	7,302.3	0.00	0.00	0.00
16,500.0	89.92	180.51	8,957.7	-7,398.2	-265.1	7,402.3	0.00	0.00	0.00
16,600.0	89.92	180.51	8,957.8	-7,498.2	-266.0	7,502.3	0.00	0.00	0.00
16,700.0	89.92	180.51	8,957.9	-7,598.2	-266.8	7,602.3	0.00	0.00	0.00
16,800.0	89.92	180.51	8,958.1	-7,698.2	-267.7	7,702.2	0.00	0.00	0.00
16,900.0	89.92	180.51	8,958.2	-7,798.2	-268.6	7,802.2	0.00	0.00	0.00
17,000.0	89.92	180.51	8,958.4	-7,898.2	-269.5	7,902.2	0.00	0.00	0.00
17,100.0	89.92	180.51	8,958.5	-7,998.2	-270.4	8,002.2	0.00	0.00	0.00
17,200.0	89.92	180.51	8,958.7	-8,098.2	-271.3	8,102.2	0.00	0.00	0.00
17,300.0	89.92	180.51	8,958.8	-8,198.2	-272.2	8,202.2	0.00	0.00	0.00
17,400.0	89.92	180.51	8,959.0	-8,298.2	-273.1	8,302.2	0.00	0.00	0.00
17,500.0	89.92	180.51	8,959.1	-8,398.2	-273.9	8,402.2	0.00	0.00	0.00
17,600.0	89.92	180.51	8,959.3	-8,498.2	-274.8	8,502.2	0.00	0.00	0.00
17,700.0	89.92	180.51	8,959.4	-8,598.2	-275.7	8,602.2	0.00	0.00	0.00
17,800.0	89.92	180.51	8,959.6	-8,698.2	-276.6	8,702.2	0.00	0.00	0.00
17,900.0	89.92	180.51	8,959.7	-8,798.2	-277.5	8,802.1	0.00	0.00	0.00
18,000.0	89.92	180.51	8,959.9	-8,898.2	-278.4	8,902.1	0.00	0.00	0.00
18,100.0	89.92	180.51	8,960.0	-8,998.2	-279.3	9,002.1	0.00	0.00	0.00
18,200.0	89.92	180.51	8,960.2	-9,098.2	-280.2	9,102.1	0.00	0.00	0.00
18,300.0	89.92	180.51	8,960.3	-9,198.1	-281.0	9,202.1	0.00	0.00	0.00
18,400.0	89.92	180.51	8,960.5	-9,298.1	-281.9	9,302.1	0.00	0.00	0.00
18,500.0	89.92	180.51	8,960.6	-9,398.1	-282.8	9,402.1	0.00	0.00	0.00
18,600.0	89.92	180.51	8,960.8	-9,498.1	-283.7	9,502.1	0.00	0.00	0.00
18,700.0	89.92	180.51	8,960.9	-9,598.1	-284.6	9,602.1	0.00	0.00	0.00
18,800.0	89.92	180.51	8,961.1	-9,698.1	-285.5	9,702.1	0.00	0.00	0.00
18,900.0	89.92	180.51	8,961.2	-9,798.1	-286.4	9,802.1	0.00	0.00	0.00
19,000.0	89.92	180.51	8,961.3	-9,898.1	-287.3	9,902.1	0.00	0.00	0.00
19,100.0	89.92	180.51	8,961.5	-9,998.1	-288.1	10,002.0	0.00	0.00	0.00
19,200.0	89.92	180.51	8,961.6	-10,098.1	-289.0	10,102.0	0.00	0.00	0.00
19,300.0	89.92	180.51	8,961.8	-10,198.1	-289.9	10,202.0	0.00	0.00	0.00
19,400.0	89.92	180.51	8,961.9	-10,298.1	-290.8	10,302.0	0.00	0.00	0.00
19,500.0	89.92	180.51	8,962.1	-10,398.1	-291.7	10,402.0	0.00	0.00	0.00
19,600.0	89.92	180.51	8,962.2	-10,498.1	-292.6	10,502.0	0.00	0.00	0.00

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Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #708H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #708H	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	89.92	180.51	8,962.4	-10,598.1	-293.5	10,602.0	0.00	0.00	0.00
19,800.0	89.92	180.51	8,962.5	-10,698.1	-294.4	10,702.0	0.00	0.00	0.00
19,900.0	89.92	180.51	8,962.7	-10,798.1	-295.2	10,802.0	0.00	0.00	0.00
20,000.0	89.92	180.51	8,962.8	-10,898.1	-296.1	10,902.0	0.00	0.00	0.00
20,100.0	89.92	180.51	8,963.0	-10,998.1	-297.0	11,002.0	0.00	0.00	0.00
20,200.0	89.92	180.51	8,963.1	-11,098.1	-297.9	11,101.9	0.00	0.00	0.00
20,300.0	89.92	180.51	8,963.3	-11,198.1	-298.8	11,201.9	0.00	0.00	0.00
20,400.0	89.92	180.51	8,963.4	-11,298.1	-299.7	11,301.9	0.00	0.00	0.00
20,500.0	89.92	180.51	8,963.6	-11,398.1	-300.6	11,401.9	0.00	0.00	0.00
20,600.0	89.92	180.51	8,963.7	-11,498.1	-301.5	11,501.9	0.00	0.00	0.00
20,700.0	89.92	180.51	8,963.9	-11,598.1	-302.4	11,601.9	0.00	0.00	0.00
20,800.0	89.92	180.51	8,964.0	-11,698.0	-303.2	11,701.9	0.00	0.00	0.00
20,900.0	89.92	180.51	8,964.2	-11,798.0	-304.1	11,801.9	0.00	0.00	0.00
21,000.0	89.92	180.51	8,964.3	-11,898.0	-305.0	11,901.9	0.00	0.00	0.00
21,100.0	89.92	180.51	8,964.5	-11,998.0	-305.9	12,001.9	0.00	0.00	0.00
21,200.0	89.92	180.51	8,964.6	-12,098.0	-306.8	12,101.9	0.00	0.00	0.00
21,300.0	89.92	180.51	8,964.8	-12,198.0	-307.7	12,201.8	0.00	0.00	0.00
21,400.0	89.92	180.51	8,964.9	-12,298.0	-308.6	12,301.8	0.00	0.00	0.00
21,500.0	89.92	180.51	8,965.0	-12,398.0	-309.5	12,401.8	0.00	0.00	0.00
21,600.0	89.92	180.51	8,965.2	-12,498.0	-310.3	12,501.8	0.00	0.00	0.00
21,700.0	89.92	180.51	8,965.3	-12,598.0	-311.2	12,601.8	0.00	0.00	0.00
21,800.0	89.92	180.51	8,965.5	-12,698.0	-312.1	12,701.8	0.00	0.00	0.00
21,900.0	89.92	180.51	8,965.6	-12,798.0	-313.0	12,801.8	0.00	0.00	0.00
22,000.0	89.92	180.51	8,965.8	-12,898.0	-313.9	12,901.8	0.00	0.00	0.00
22,100.0	89.92	180.51	8,965.9	-12,998.0	-314.8	13,001.8	0.00	0.00	0.00
22,200.0	89.92	180.51	8,966.1	-13,098.0	-315.7	13,101.8	0.00	0.00	0.00
22,300.0	89.92	180.51	8,966.2	-13,198.0	-316.6	13,201.8	0.00	0.00	0.00
22,400.0	89.92	180.51	8,966.4	-13,298.0	-317.4	13,301.8	0.00	0.00	0.00
22,500.0	89.92	180.51	8,966.5	-13,398.0	-318.3	13,401.7	0.00	0.00	0.00
22,600.0	89.92	180.51	8,966.7	-13,498.0	-319.2	13,501.7	0.00	0.00	0.00
22,700.0	89.92	180.51	8,966.8	-13,598.0	-320.1	13,601.7	0.00	0.00	0.00
22,800.0	89.92	180.51	8,967.0	-13,698.0	-321.0	13,701.7	0.00	0.00	0.00
22,900.0	89.92	180.51	8,967.1	-13,798.0	-321.9	13,801.7	0.00	0.00	0.00
23,000.0	89.92	180.51	8,967.3	-13,898.0	-322.8	13,901.7	0.00	0.00	0.00
23,100.0	89.92	180.51	8,967.4	-13,998.0	-323.7	14,001.7	0.00	0.00	0.00
23,200.0	89.92	180.51	8,967.6	-14,098.0	-324.5	14,101.7	0.00	0.00	0.00
23,300.0	89.92	180.51	8,967.7	-14,197.9	-325.4	14,201.7	0.00	0.00	0.00
23,400.0	89.92	180.51	8,967.9	-14,297.9	-326.3	14,301.7	0.00	0.00	0.00
23,500.0	89.92	180.51	8,968.0	-14,397.9	-327.2	14,401.7	0.00	0.00	0.00
23,600.0	89.92	180.51	8,968.2	-14,497.9	-328.1	14,501.6	0.00	0.00	0.00
23,700.0	89.92	180.51	8,968.3	-14,597.9	-329.0	14,601.6	0.00	0.00	0.00
23,800.0	89.92	180.51	8,968.5	-14,697.9	-329.9	14,701.6	0.00	0.00	0.00
23,900.0	89.92	180.51	8,968.6	-14,797.9	-330.8	14,801.6	0.00	0.00	0.00
24,000.0	89.92	180.51	8,968.7	-14,897.9	-331.6	14,901.6	0.00	0.00	0.00
24,040.2	89.92	180.51	8,968.8	-14,938.1	-332.0	14,941.8	0.00	0.00	0.00
Start 130.0 hold at 24040.2 MD									
24,100.0	89.92	180.51	8,968.9	-14,997.9	-332.5	15,001.6	0.00	0.00	0.00
24,170.2	89.92	180.51	8,969.0	-15,068.1	-333.2	15,071.8	0.00	0.00	0.00
TD at 24170.2									

ConocoPhillips
Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #708H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3153.9ft @ 3185.9usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #708H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
FTP (FLAMING SNAIL F	0.00	0.00	8,947.0	371.5	-196.1	402,750.10	541,871.40	32° 6' 25.934 N	104° 11' 53.176 W
- plan misses target center by 237.4usft at 8850.0usft MD (8777.1 TVD, 205.8 N, -197.6 E)									
- Circle (radius 50.0)									
LTP (FLAMING SNAIL F	0.00	0.00	8,968.8	-14,938.1	-332.0	387,440.50	541,735.50	32° 3' 54.424 N	104° 11' 54.978 W
- plan hits target center									
- Point									
PBHL (FLAMING SNAIL	0.09	0.51	8,969.0	-15,068.1	-333.1	387,310.50	541,734.40	32° 3' 53.137 N	104° 11' 54.993 W
- plan misses target center by 0.1usft at 24170.2usft MD (8969.0 TVD, -15068.1 N, -333.2 E)									
- Rectangle (sides W100.0 H15,440.2 D20.0)									

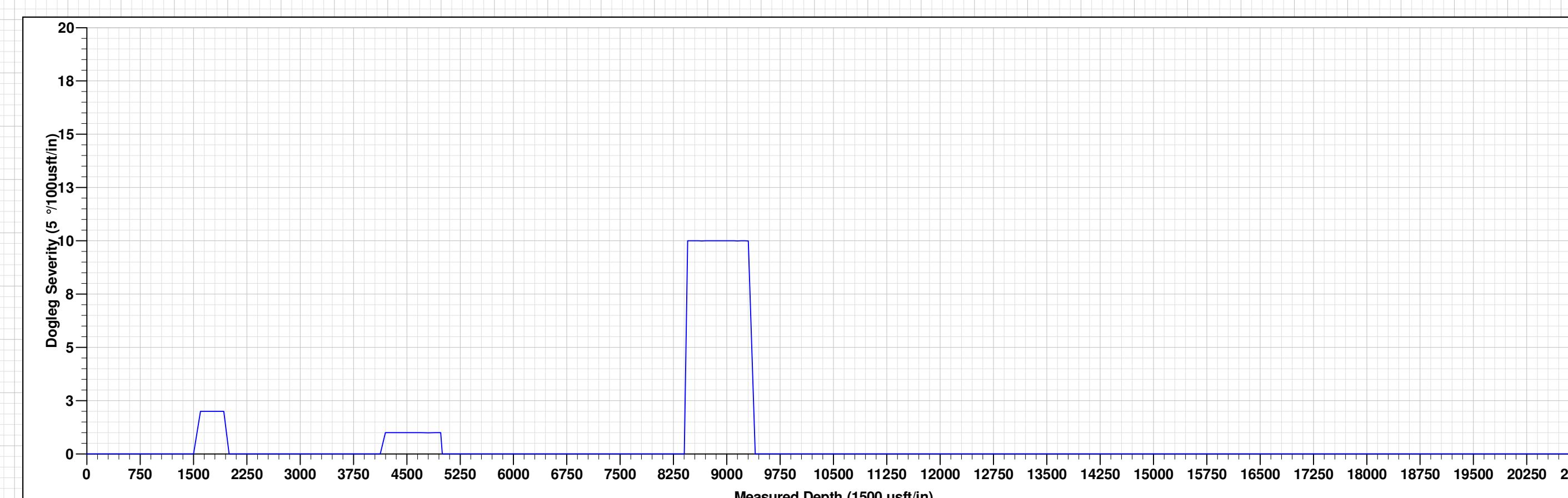
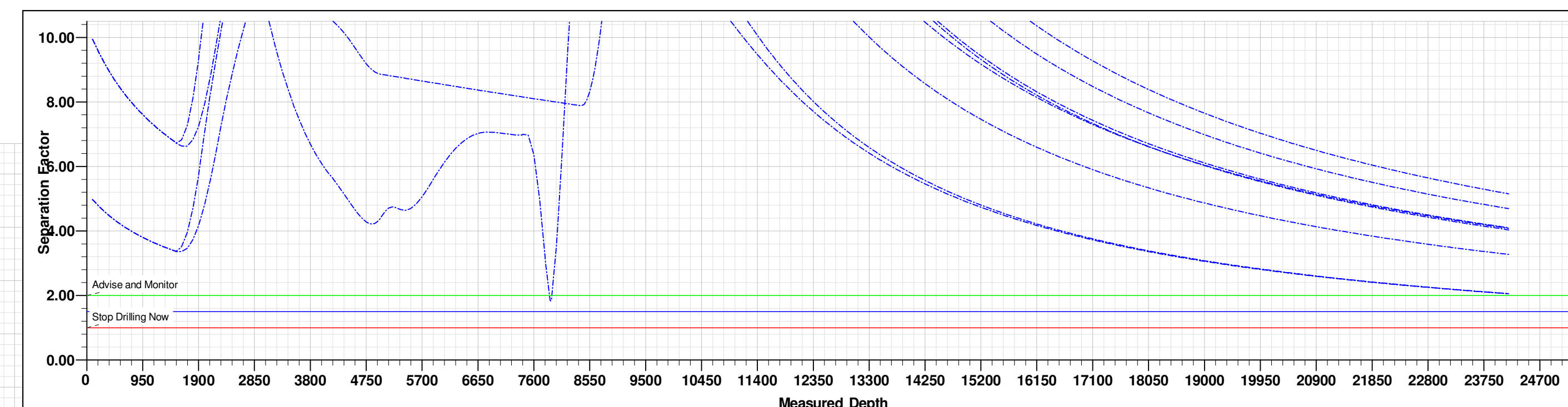
Plan Annotations				
Measured	Vertical	Local Coordinates		
Depth	Depth	+N/-S	+E/-W	Comment
(usft)	(usft)	(usft)	(usft)	
1,500.0	1,500.0	0.0	0.0	Start Build 2.00
1,925.1	1,923.5	27.8	-14.7	Start 2202.6 hold at 1925.1 MD
4,127.7	4,101.9	315.8	-166.7	Start Drop -1.00
4,977.9	4,949.0	371.5	-196.1	Start 3425.0 hold at 4977.9 MD
8,402.9	8,374.0	371.5	-196.1	Start DLS 10.00 TFO 180.51
9,302.1	8,947.0	-200.6	-201.2	Start 14738.1 hold at 9302.1 MD
24,040.2	8,968.8	-14,938.1	-332.0	Start 130.0 hold at 24040.2 MD
24,170.2	8,969.0	-15,068.1	-333.2	TD at 24170.2



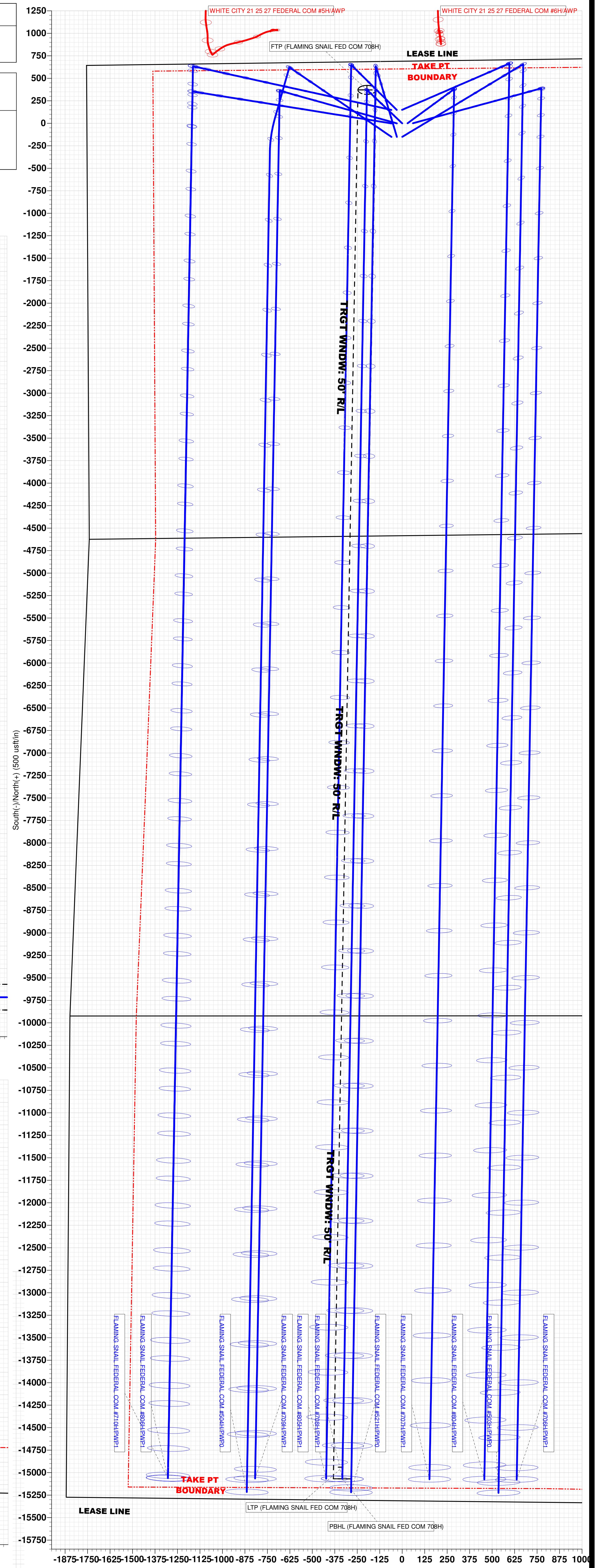
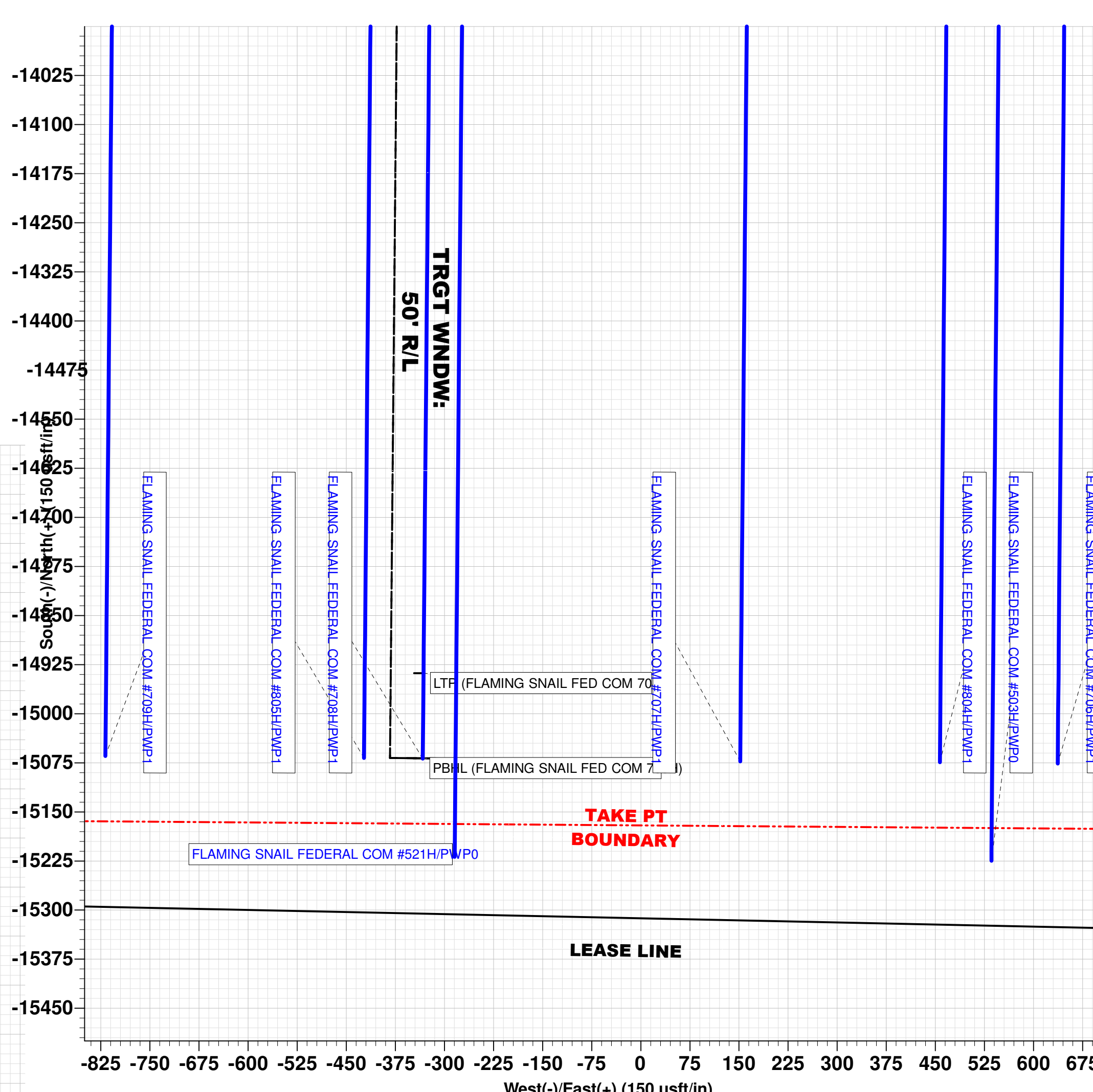
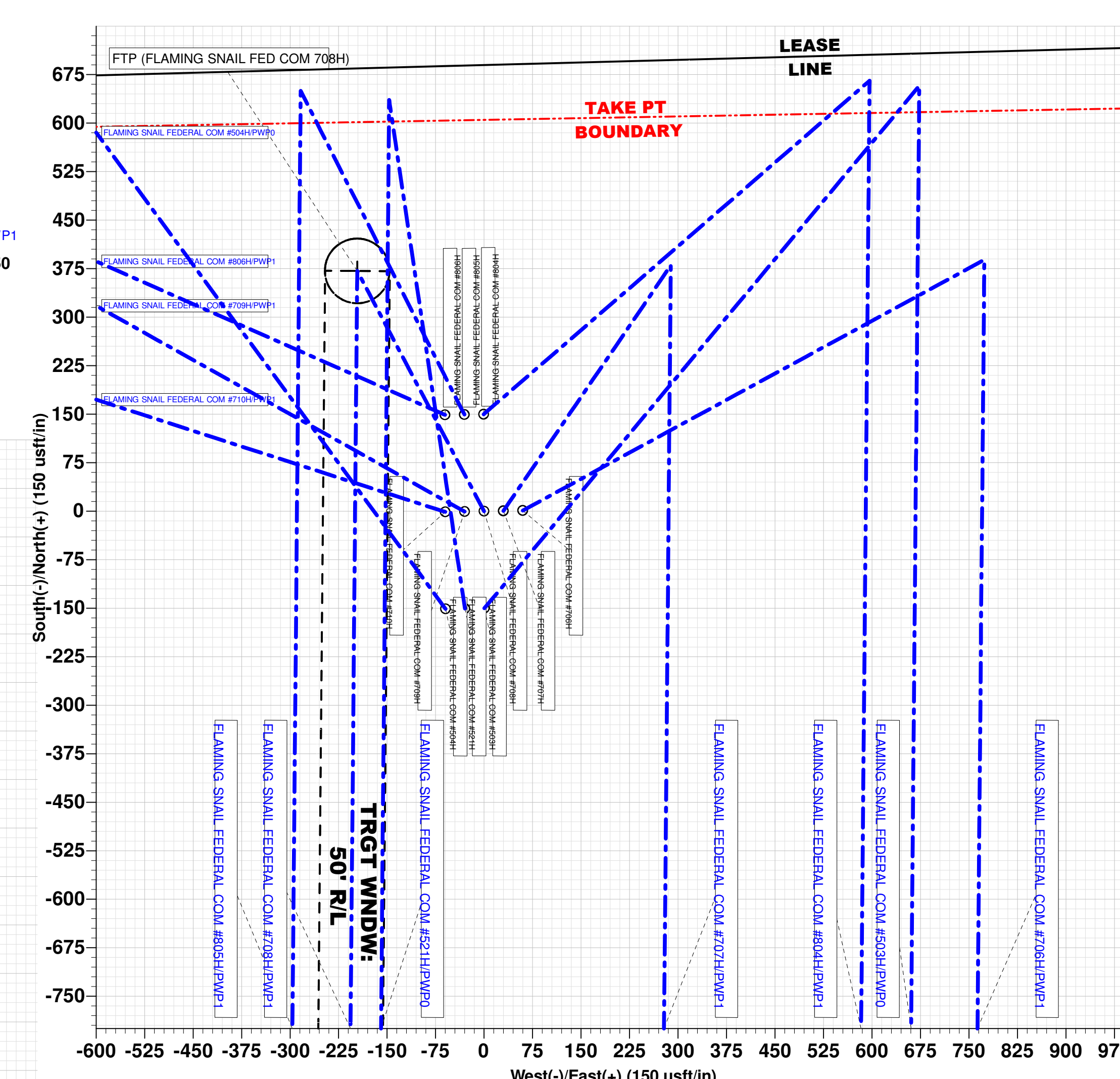
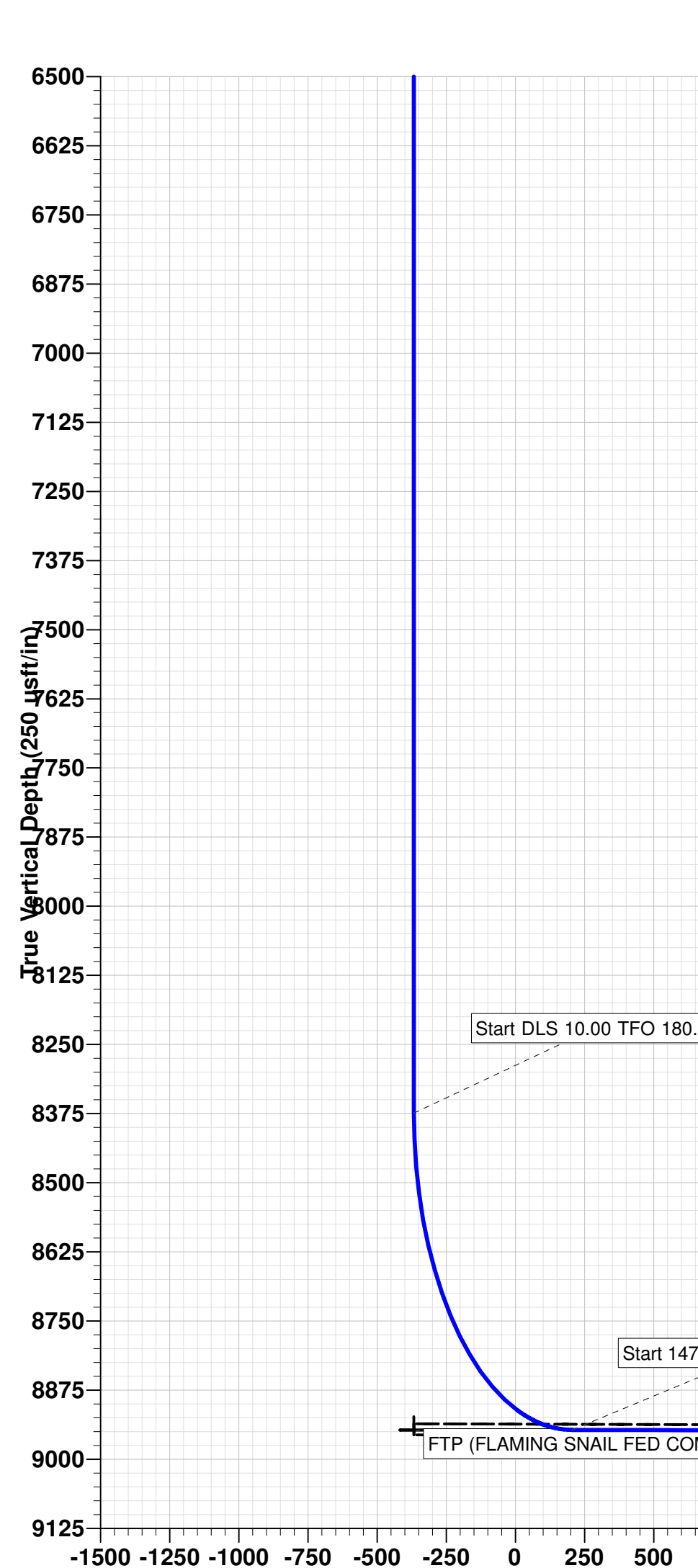
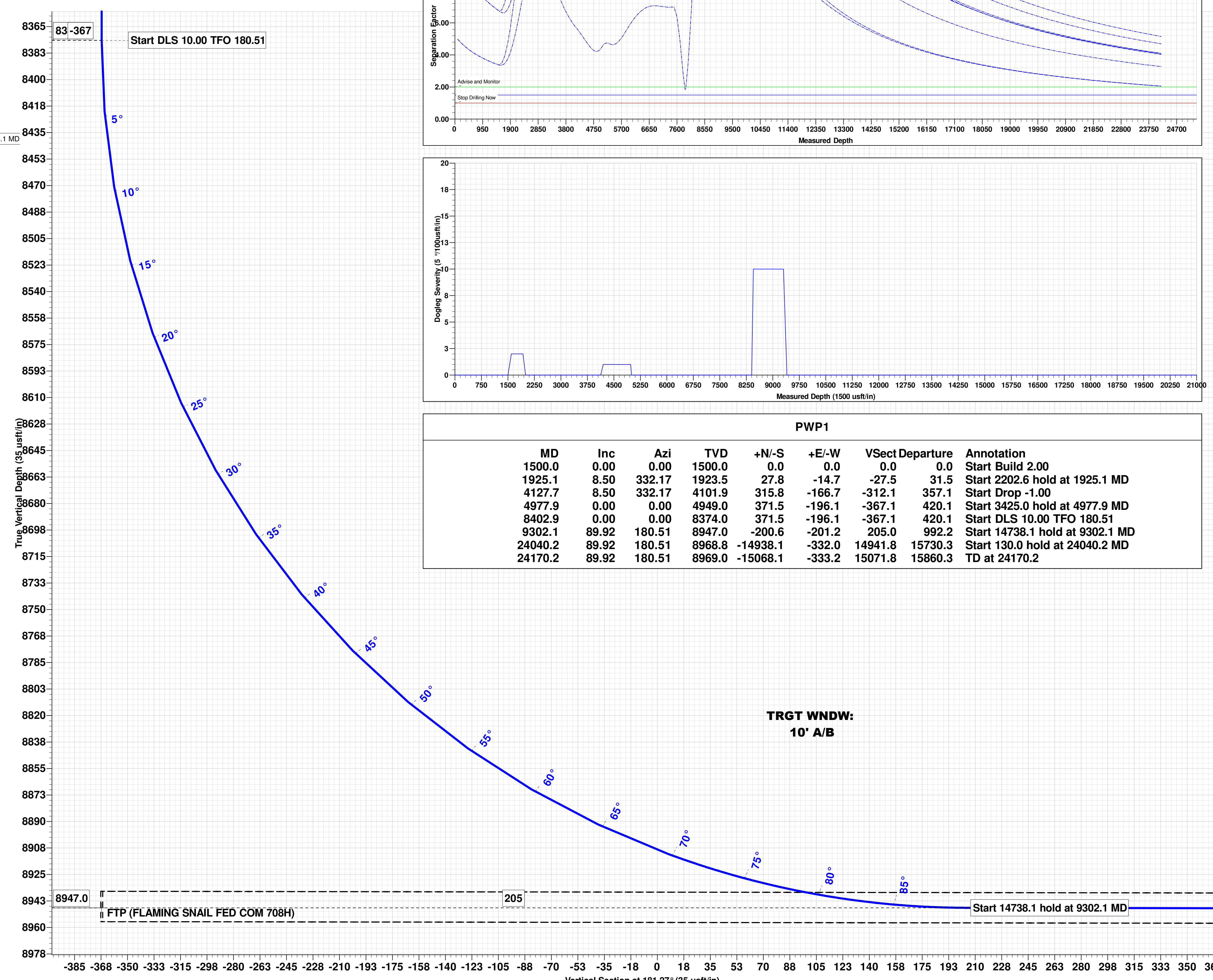
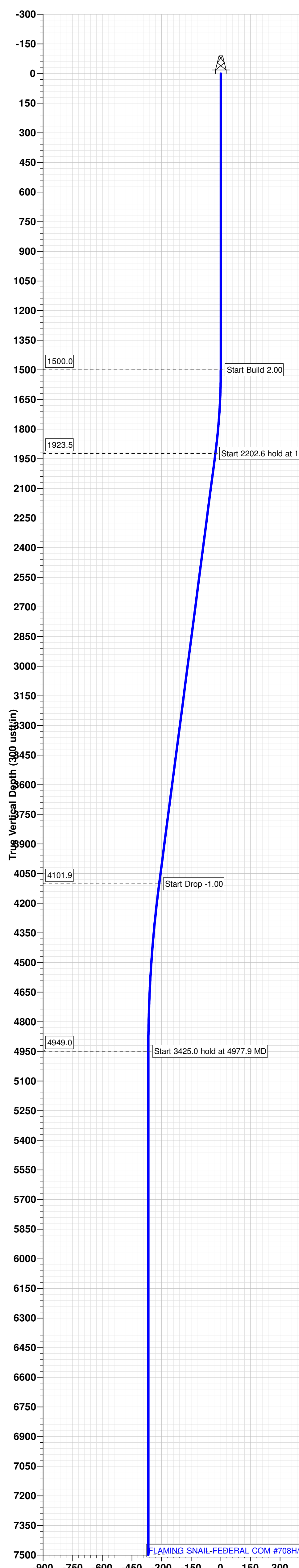
Project: ATLAS PROSPECT (NM-E)
Site: FLAMING SNAIL FED COM PROJECT
Well: FLAMING SNAIL FEDERAL COM #708H
Wellbore: OWB
Design: PWP1
GL: 3153.9
*RKB 32ft + GL 3153.9ft @ 3185.9usft

WELL DETAILS: FLAMING SNAIL FEDERAL COM #708H					
+N-S	+E-W	Northing	Easting	Latitude	Longitude
0.0	0.0	402378.60	542067.50	32° 6' 22.255 N	104° 11' 50.902 W

DESIGN TARGET DETAILS					
Name	TVD	+N-S	+E-W	Northing	Easting
FTP (FLAMING SNAIL FED COM 708H)	8947.0	371.5	-196.1	402750.10	541871.40
LTP (FLAMING SNAIL FED COM 708H)	8968.8	-14938.1	-332.0	387440.50	541735.50
PBHL (FLAMING SNAIL FED COM 708H)	8969.0	-15068.1	-333.1	387310.50	541734.40
Shape					
Circle (Radius: 50.0)					
Point					
Rectangle (Sides: L15440.2 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	
1925.1	8.50	332.17	1923.5	27.8	-14.7	-27.5	31.5	Start 2202.6 hold at 1925.1 MD	
4127.7	8.50	332.17	4101.9	315.8	-166.7	-312.1	357.1	Start Drop -1.00	
4977.9	0.00	0.00	4949.0	371.5	-196.1	-367.1	420.1	Start 3425.0 hold at 4977.9 MD	
8402.9	0.00	0.00	8374.0	371.5	-196.1	-367.1	420.1	Start DLS 10.00 TFO 180.51	
9302.1	89.92	180.51	8947.0	-200.6	-201.2	205.0	992.2	Start 14738.1 hold at 9302.1 MD	
24040.2	89.92	180.51	8968.8	-14938.1	-332.0	14941.8	15730.3	Start 130.0 hold at 24040.2 MD	
24170.2	89.92	180.51	8969.0	-15068.1	-333.2	15071.8	15860.3	TD at 24170.2	



PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

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

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

COA

H2S	☐ Yes	☒ No	
Potash	☒ None	☐ Secretary	☐ R-111-P
Cave/Karst Potential	☐ Low	☐ Medium	☒ High
Cave/Karst Potential	☐ Critical		
Variance	☐ None	☒ Flex Hose	☐ Other
Wellhead	☐ Conventional	☒ Multibowl	☐ Both
Other	☐ 4 String Area	☐ Capitan Reef	☐ WIPP
Other	☐ Fluid Filled	☐ Cement Squeeze	☐ Pilot Hole
Special Requirements	☐ Water Disposal	☒ COM	☐ Unit

A. HYDROGEN SULFIDE

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

B. CASING

1. The **10-3/4** inch surface casing shall be set at approximately **350** feet (a minimum of **70 feet (Eddy County)** into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to

- include the lead cement)
- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The minimum required fill of cement behind the 7-5/8 inch intermediate casing is:
- Cement to surface. If cement does not circulate see B.1.a, c-d above.
- Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst.**

Option 2:

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

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
 - b. Second stage above DV tool:
 - Cement to surface. If cement does not circulate, contact the appropriate BLM office.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst.
- ❖ In High Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
- Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

C. PRESSURE CONTROL

1. **Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).**
2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M) psi**.

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

- a. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- b. Manufacturer representative shall install the test plug for the initial BOP test.
- c. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- d. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

GENERAL REQUIREMENTS

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

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

☒ Eddy County

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

BLM_NM_CFO_DrillingNotifications@BLM.GOV

(575) 361-2822

☒ Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 689-5981

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.

3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR part 3170 Subpart 3172 and API STD 53 Sec. 5.3**.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.

3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
 - c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2

with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

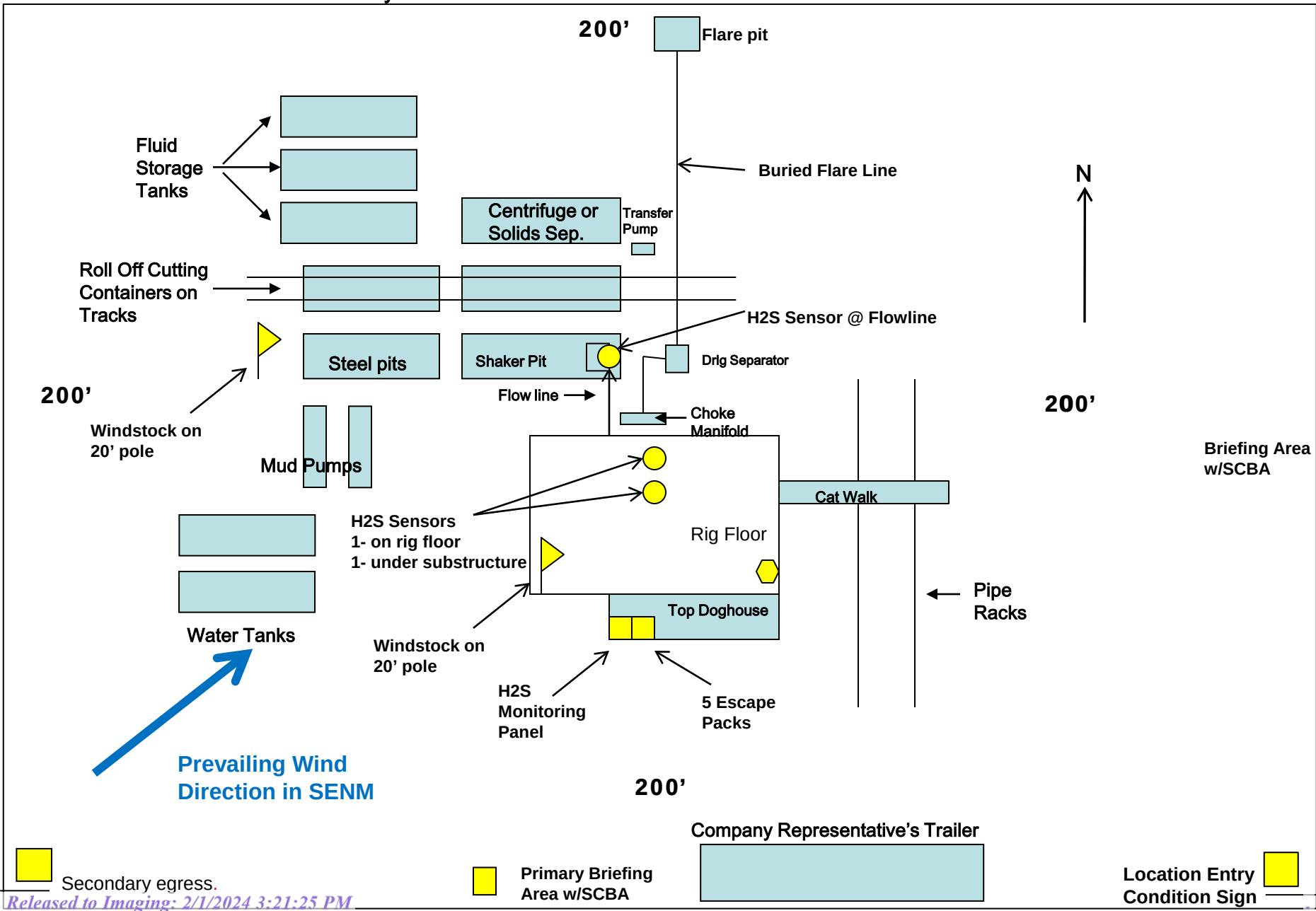
All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location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

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

ZS071123

COC Operating LLC
H₂S Equipment Schematic
Terrain: Shinnery sand hills.

Well pad will be 400' x 400'
with cellar in center of pad



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 304031

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:
	229137
	Action Number:
	304031
Action Type:	
[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)	

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Notify OCD 24 hours prior to casing & cement	2/1/2024
ward.rikala	Will require a File As Drilled C-102 and a Directional Survey with the C-104	2/1/2024
ward.rikala	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string	2/1/2024
ward.rikala	Cement is required to circulate on both surface and intermediate1 strings of casing	2/1/2024
ward.rikala	If cement does not circulate on any string, a CBL is required for that string of casing	2/1/2024
ward.rikala	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system	2/1/2024