

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 / 1679 FWL / TWSP: 25S / RANGE: 27E / SECTION: 28 / LAT: 32.106159 / LONG: -104.198083 (TVD: 0 feet, MD: 0 feet)
PPP: NENW / 330 FNL / 2005 FWL / TWSP: 25S / RANGE: 27E / SECTION: 28 / LAT: 32.107347 / LONG: -104.197033 (TVD: 8788 feet, MD: 8877 feet)
PPP: NENW / 1 FNL / 2005 FWL / TWSP: 25S / RANGE: 27E / SECTION: 33 / LAT: 32.093697 / LONG: -104.197195 (TVD: 8962 feet, MD: 13828 feet)
PPP: SENW / 1321 FNL / 2005 FWL / TWSP: 25S / RANGE: 27E / SECTION: 33 / LAT: 32.090025 / LONG: -104.197238 (TVD: 8963 feet, MD: 15148 feet)
PPP: NENW / 1 FNL / 2005 FWL / TWSP: 26S / RANGE: 27E / SECTION: 4 / LAT: 32.079016 / LONG: -104.197369 (TVD: 8968 feet, MD: 19108 feet)
BHL: SESW / 200 FSL / 2005 FWL / TWSP: 26S / RANGE: 27E / SECTION: 4 / LAT: 32.06487 / LONG: -104.197537 (TVD: 8974 feet, MD: 24204 feet)

BLM Point of Contact

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

CONFIDENTIAL

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

DISTRICT II
811 S. FIRST ST., ARTESIA, NM 88210
Phone: (575) 746-1283 Fax: (575) 746-9720

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

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

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-	Pool Code 98220	Pool Name Purple Sage; Wolfcamp (Gas)
Property Code	Property Name FLAMING SNAIL FEDERAL COM	Well Number 707H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3153.2'

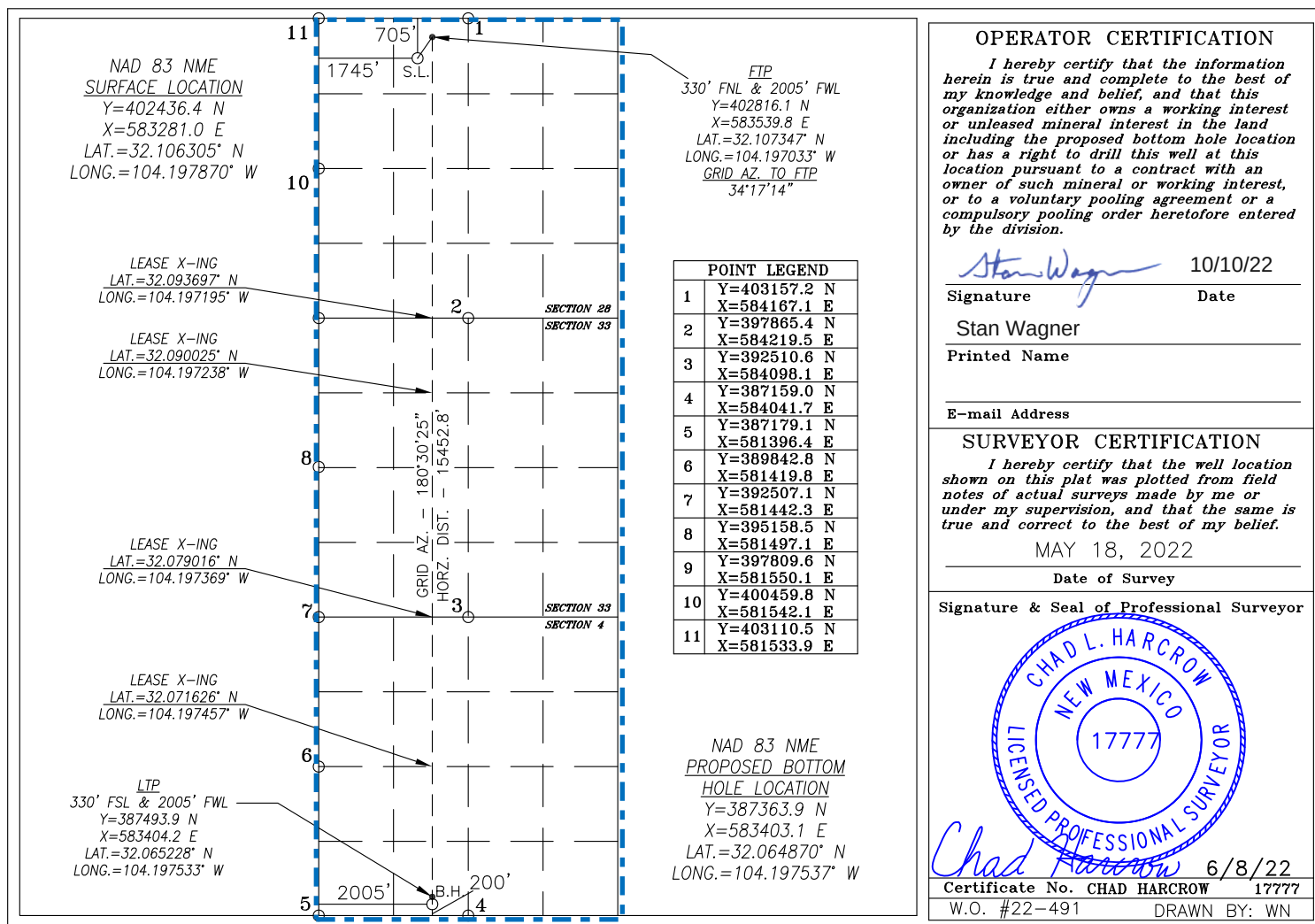
Surface Location

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	1745	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	2005	WEST	EDDY
Dedicated Acres 1920	Joint or Infill Infill	Consolidation Code Com	Order No.						

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: COG Operating LLC

OGRID: 229137

Date: 10/11/2022

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

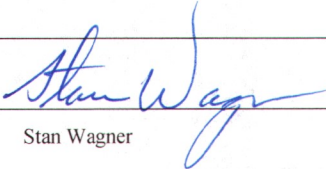
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(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 707H

1. Geologic Formations

TVD of target	8,974' EOL	Pilot hole depth	NA
MD at TD:	24,196'	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	545	Salt	
Base of Salt	1966	Salt	
Lamar	2141	Salt Water	
Bell Canyon	2207	Salt Water	
Cherry Canyon	2996	Oil/Gas	
Brushy Canyon	4087	Oil/Gas	
Bone Spring Lime	5698	Oil/Gas	
1st Bone Spring Sand	6628	Oil/Gas	
2nd Bone Spring Sand	7155	Oil/Gas	
3rd Bone Spring Sand	8468	Oil/Gas	
Wolfcamp	8799	Oil/Gas	
Wolfcamp A	8887	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	24,196	5.5"	23	P110	W441	2.49	2.94	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 707H

	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 707H

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
	1546	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 707H

4. Pressure Control Equipment

N	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.
---	---

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 707H

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
---	-----------------------------

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 707H

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	5835 psi at 8974' 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

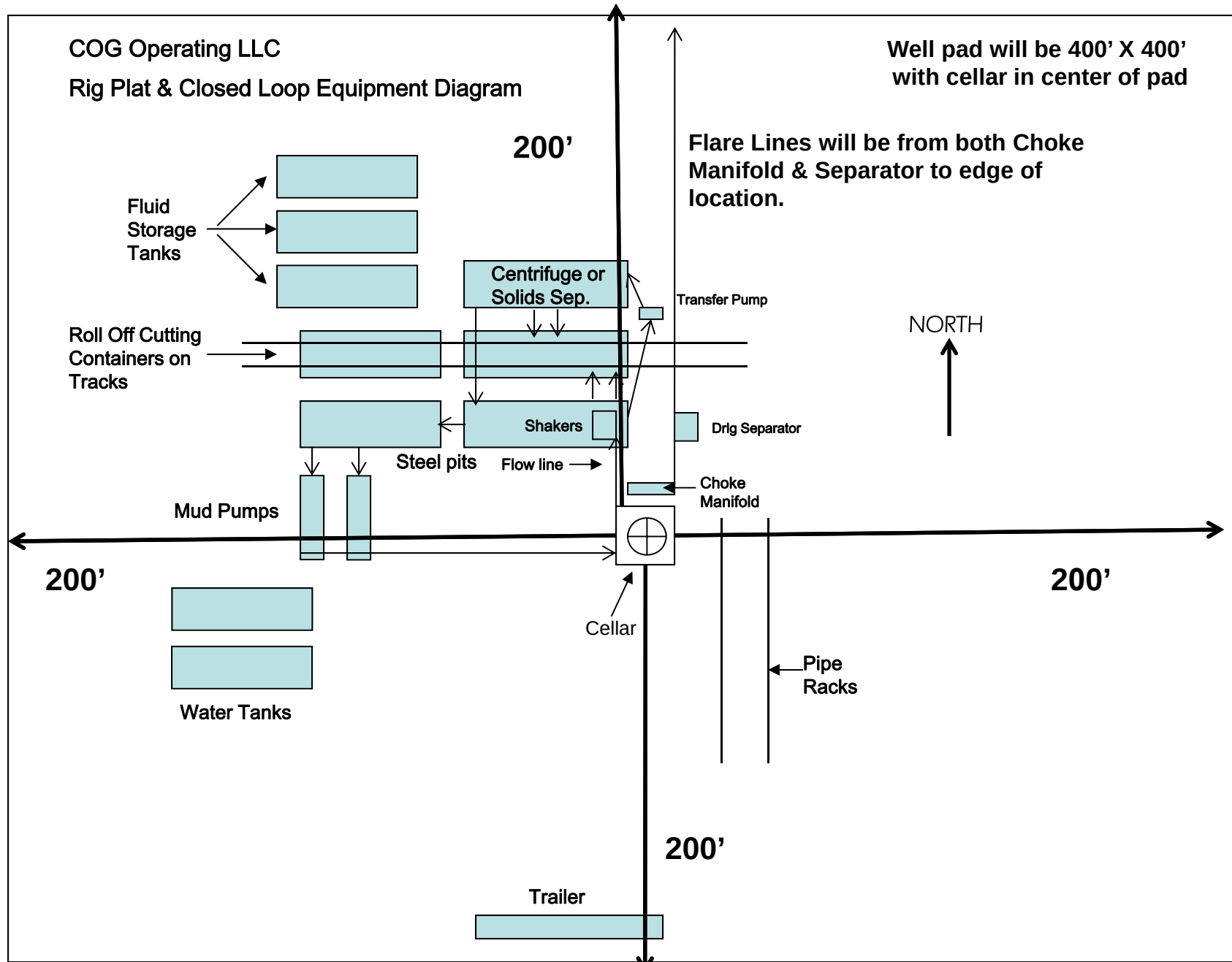


Exhibit 1

"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 #707H

OWB

PWP1

Anticollision Report

24 September, 2022

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 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
Depth Range:	Unlimited
Results Limited by:	Maximum centre distance of 1,320.0usft
Warning Levels Evaluated at:	2.00 Sigma
Error Model:	ISCWSA
Scan Method:	Closest Approach 3D
Error Surface:	Pedal Curve
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	8,417.4	PWP1 (OWB)	r.5 MWD+IFR1	OWSG MWD + IFR1 rev.5	
8,417.4	24,197.0	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						
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	4,550.8	4,589.2	115.3	97.7	6.574	CC, ES
FLAMING SNAIL FEDERAL COM #503H - OWB - PWP0	5,035.0	5,063.8	147.1	122.8	6.069	SF
FLAMING SNAIL FEDERAL COM #504H - OWB - PWP0	1,500.0	1,503.0	176.0	167.9	21.727	CC, ES
FLAMING SNAIL FEDERAL COM #504H - OWB - PWP0	1,710.0	1,712.8	183.7	175.0	21.053	SF
FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0						Out of range
FLAMING SNAIL FEDERAL COM #521H - OWB - PWP0	1,500.0	1,502.8	162.4	154.2	19.845	CC, ES
FLAMING SNAIL FEDERAL COM #521H - OWB - PWP0	24,197.9	23,472.8	1,087.9	843.7	4.454	SF
FLAMING SNAIL FEDERAL COM #701H - OWB - PWP1						Out of range
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	8,417.4	8,509.8	998.6	954.3	22.540	CC
FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1	24,197.9	24,336.2	1,007.5	768.4	4.213	ES, SF
FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1	1,500.0	1,499.3	30.0	21.1	3.379	CC
FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1	1,520.0	1,519.1	30.0	21.1	3.360	ES
FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1	24,197.9	24,278.2	485.1	248.4	2.050	SF
FLAMING SNAIL FEDERAL COM #708H - OWB - PWP1	1,437.3	1,438.0	30.0	21.2	3.421	CC
FLAMING SNAIL FEDERAL COM #708H - OWB - PWP1	1,500.0	1,500.7	30.0	21.1	3.379	ES
FLAMING SNAIL FEDERAL COM #708H - OWB - PWP1	24,197.9	24,170.5	485.0	249.4	2.058	SF
FLAMING SNAIL FEDERAL COM #709H - OWB - PWP1	1,437.0	1,438.4	60.0	51.2	6.841	CC
FLAMING SNAIL FEDERAL COM #709H - OWB - PWP1	1,500.0	1,501.4	60.0	51.1	6.757	ES
FLAMING SNAIL FEDERAL COM #709H - OWB - PWP1	24,197.9	24,202.3	970.1	733.7	4.104	SF
FLAMING SNAIL FEDERAL COM #710H - OWB - PWP1	1,436.9	1,438.7	90.0	81.2	10.262	CC
FLAMING SNAIL FEDERAL COM #710H - OWB - PWP1	1,500.0	1,501.7	90.0	81.1	10.134	ES
FLAMING SNAIL FEDERAL COM #710H - OWB - PWP1	1,520.0	1,521.2	90.1	81.2	10.081	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	8,417.4	8,488.8	1,218.3	1,177.8	30.046	CC, ES
FLAMING SNAIL FEDERAL COM #803H - OWB - PWP1	8,450.0	8,521.3	1,218.6	1,178.0	30.041	SF
FLAMING SNAIL FEDERAL COM #804H - OWB - PWP1	2,123.4	2,104.6	141.5	129.7	12.035	CC, ES

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 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 Offset Well - Wellbore - Design	Reference	Offset	Distance		Separation Factor	Warning
	Measured	Measured	Between	Between		
	Depth	Depth	Centres	Ellipses		
(usft) (usft) (usft) (usft)						
FLAMING SNAIL FED COM PROJECT						
FLAMING SNAIL FEDERAL COM #804H - OWB - PWP1	24,197.9	25,359.2	867.0	621.5	3.531	SF
FLAMING SNAIL FEDERAL COM #805H - OWB - PWP1	1,506.5	1,503.6	160.7	151.3	17.130	CC
FLAMING SNAIL FEDERAL COM #805H - OWB - PWP1	1,520.0	1,516.4	160.7	151.3	17.055	ES
FLAMING SNAIL FEDERAL COM #805H - OWB - PWP1	24,197.9	25,284.1	982.5	738.7	4.030	SF
FLAMING SNAIL FEDERAL COM #806H - OWB - PWP1	1,500.0	1,497.5	173.8	164.5	18.706	CC
FLAMING SNAIL FEDERAL COM #806H - OWB - PWP1	1,520.0	1,516.7	173.8	164.4	18.600	ES
FLAMING SNAIL FEDERAL COM #806H - OWB - PWP1	1,805.0	1,786.4	181.0	170.7	17.606	SF
LEONARDO BKL FEDERAL COM #1 - OWB - AWP	10,360.8	8,908.6	1,291.9	1,011.4	4.606	CC, ES
LEONARDO BKL FEDERAL COM #1 - OWB - AWP	10,400.0	8,908.9	1,292.4	1,011.6	4.602	SF
WHITE CITY 21 25 27 FEDERAL COM #5H - OWB - AW	3,310.1	3,227.2	1,209.2	1,187.2	54.999	CC
WHITE CITY 21 25 27 FEDERAL COM #5H - OWB - AW	3,325.0	3,239.1	1,209.2	1,187.2	54.829	ES
WHITE CITY 21 25 27 FEDERAL COM #5H - OWB - AW	5,510.0	5,336.1	1,319.7	1,285.3	38.364	SF
WHITE CITY 21 25 27 FEDERAL COM #6H - OWB - AW	7,060.5	6,996.4	504.7	462.7	11.998	CC, ES
WHITE CITY 21 25 27 FEDERAL COM #6H - OWB - AW	7,100.0	7,022.0	505.4	463.2	11.979	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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 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
Offset Well - Wellbore - Design						
FLAMING SNAIL FED COM PROJECT						
FLAMING SNAIL FEDERAL COM #501H - OWB - PWP0	24,197.9	23,269.3				Out of Range @TD
FLAMING SNAIL FEDERAL COM #502H - OWB - PWP0	24,197.9	23,196.7				Out of Range @TD
FLAMING SNAIL FEDERAL COM #503H - OWB - PWP0	24,197.9	23,165.7				Out of Range @TD
FLAMING SNAIL FEDERAL COM #504H - OWB - PWP0	24,197.9	23,086.4				Out of Range @TD
FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0	24,197.9	23,586.0				Out of Range @TD
FLAMING SNAIL FEDERAL COM #521H - OWB - PWP0	24,197.9	23,472.8	1,087.9	843.7	4.454	SF
FLAMING SNAIL FEDERAL COM #701H - OWB - PWP1	24,197.9	24,345.2				Out of Range @TD
FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1	24,197.9	24,273.2				Out of Range @TD
FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1	24,197.9	24,264.0				Out of Range @TD
FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1	24,197.9	24,302.2				Out of Range @TD
FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1	24,197.9	24,336.2	1,007.5	768.4	4.213	ES, SF
FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1	24,197.9	24,278.2	485.1	248.4	2.050	SF
FLAMING SNAIL FEDERAL COM #708H - OWB - PWP1	24,197.9	24,170.5	485.0	249.4	2.058	SF
FLAMING SNAIL FEDERAL COM #709H - OWB - PWP1	24,197.9	24,202.3	970.1	733.7	4.104	SF
FLAMING SNAIL FEDERAL COM #710H - OWB - PWP1	24,197.9	24,228.5				Out of Range @TD
FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1	24,197.9	25,454.4				Out of Range @TD
FLAMING SNAIL FEDERAL COM #802H - OWB - PWP1	24,197.9	25,370.9				Out of Range @TD
FLAMING SNAIL FEDERAL COM #803H - OWB - PWP1	24,197.9	25,416.8				Out of Range @TD
FLAMING SNAIL FEDERAL COM #804H - OWB - PWP1	24,197.9	25,359.2	867.0	621.5	3.531	SF
FLAMING SNAIL FEDERAL COM #805H - OWB - PWP1	24,197.9	25,284.1	982.5	738.7	4.030	SF
FLAMING SNAIL FEDERAL COM #806H - OWB - PWP1	24,197.9	25,329.4				Out of Range @TD
LEONARDO BKL FEDERAL COM #1 - OWB - AWP	24,197.9	8,924.5				Out of Range @TD
WHITE CITY 21 25 27 FEDERAL COM #5H - OWB - AW	24,197.9	6,985.0				Out of Range @TD
WHITE CITY 21 25 27 FEDERAL COM #6H - OWB - AW	24,197.9	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: Reference		0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7106-r.5 MWD+IFR1+MS								Rule Assigned:		Offset Well Error: 3.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Distance 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	

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 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)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
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	156.80	-150.6	-29.5	153.5	145.2	8.29	18.514		
1,600.0	1,600.0	1,602.1	1,602.1	4.9	3.6	157.03	-150.6	-29.5	155.1	146.6	8.50	18.244		
1,615.0	1,615.0	1,617.1	1,617.1	4.9	3.6	157.11	-150.6	-29.5	155.6	147.0	8.55	18.204		
1,700.0	1,699.8	1,701.9	1,701.9	5.1	3.7	157.72	-150.6	-29.5	159.9	151.1	8.82	18.128		
1,710.0	1,709.8	1,711.9	1,711.9	5.2	3.7	157.82	-150.6	-29.5	160.6	151.7	8.85	18.135		
1,800.0	1,799.5	1,801.6	1,801.6	5.4	3.8	158.79	-150.6	-29.5	168.0	158.8	9.16	18.345		
1,805.0	1,804.4	1,806.5	1,806.5	5.4	3.8	158.85	-150.6	-29.5	168.5	159.3	9.18	18.363		
1,900.0	1,898.7	1,900.8	1,900.8	5.7	3.9	160.12	-150.6	-29.5	179.4	169.9	9.52	18.855		
1,950.1	1,948.2	1,950.3	1,950.3	5.8	3.9	160.85	-150.6	-29.5	186.4	176.8	9.64	19.344		
1,995.0	1,992.6	1,994.7	1,994.7	5.9	3.9	161.53	-150.6	-29.5	193.1	183.3	9.75	19.812		
2,000.0	1,997.5	1,999.6	1,999.6	5.9	3.9	161.60	-150.6	-29.5	193.8	184.1	9.76	19.863		
2,090.0	2,086.4	2,094.8	2,094.8	6.1	4.1	162.74	-149.4	-28.5	205.9	195.7	10.20	20.194		
2,100.0	2,096.3	2,105.5	2,105.4	6.1	4.2	162.84	-149.1	-28.3	207.1	196.8	10.25	20.202		
2,185.0	2,180.3	2,196.2	2,196.0	6.4	4.4	163.47	-145.4	-25.2	215.7	204.9	10.74	20.077		
2,200.0	2,195.1	2,212.3	2,212.1	6.4	4.4	163.55	-144.6	-24.5	217.0	206.1	10.83	20.031		
2,280.0	2,274.1	2,298.2	2,297.7	6.7	4.7	163.80	-138.7	-19.6	222.4	211.1	11.32	19.650		
2,300.0	2,293.8	2,319.7	2,319.1	6.7	4.8	163.82	-136.9	-18.1	223.4	212.0	11.44	19.526		
2,375.0	2,367.9	2,400.6	2,399.3	7.0	5.0	163.76	-129.1	-11.6	226.0	214.0	11.92	18.963		
2,400.0	2,392.6	2,427.6	2,426.0	7.0	5.1	163.70	-126.1	-9.1	226.4	214.3	12.08	18.746		
2,470.0	2,461.7	2,503.1	2,500.5	7.3	5.4	163.39	-116.7	-1.3	226.4	213.8	12.53	18.062		
2,500.0	2,491.4	2,535.4	2,532.3	7.4	5.5	163.20	-112.3	2.4	225.9	213.1	12.73	17.740		
2,565.0	2,555.6	2,605.5	2,601.0	7.6	5.8	162.66	-101.6	11.3	223.7	210.5	13.16	16.990		
2,600.0	2,590.1	2,643.1	2,637.7	7.7	5.9	162.30	-95.4	16.5	221.9	208.5	13.40	16.561		
2,660.0	2,649.4	2,707.4	2,700.3	7.9	6.2	161.54	-83.8	26.1	217.9	204.1	13.79	15.804		
2,700.0	2,688.9	2,748.5	2,740.0	8.1	6.3	160.96	-76.0	32.7	214.6	200.6	14.01	15.326		
2,755.0	2,743.2	2,803.2	2,793.0	8.2	6.4	160.16	-65.4	41.4	210.2	195.8	14.33	14.664		

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 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		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)			
2,800.0	2,787.7	2,848.0	2,836.4	8.4	6.6	159.48	-56.8	48.6	206.5	191.9	14.62	14.130	
2,850.0	2,837.1	2,897.8	2,884.5	8.6	6.8	158.69	-47.2	56.6	202.5	187.6	14.93	13.563	
2,900.0	2,886.5	2,947.5	2,932.7	8.8	6.9	157.88	-37.7	64.6	198.6	183.3	15.25	13.022	
2,945.0	2,930.9	2,992.3	2,976.1	8.9	7.1	157.11	-29.0	71.7	195.0	179.5	15.53	12.557	
3,000.0	2,985.2	3,047.0	3,029.1	9.2	7.3	156.14	-18.5	80.5	190.8	174.9	15.87	12.018	
3,040.0	3,024.7	3,086.8	3,067.6	9.3	7.5	155.41	-10.8	86.9	187.7	171.6	16.12	11.644	
3,100.0	3,084.0	3,146.6	3,125.4	9.5	7.7	154.26	0.6	96.4	183.1	166.7	16.48	11.112	
3,135.0	3,118.6	3,181.4	3,159.1	9.7	7.9	153.56	7.3	102.0	180.5	163.8	16.69	10.817	
3,200.0	3,182.8	3,246.1	3,221.8	9.9	8.1	152.22	19.8	112.4	175.7	158.7	17.06	10.299	
3,230.0	3,212.4	3,275.9	3,250.7	10.0	8.2	151.57	25.5	117.2	173.6	156.3	17.23	10.072	
3,300.0	3,281.5	3,345.6	3,318.1	10.3	8.5	150.00	38.9	128.3	168.6	151.0	17.61	9.573	
3,325.0	3,306.2	3,370.5	3,342.2	10.4	8.6	149.42	43.7	132.3	166.8	149.1	17.74	9.404	
3,400.0	3,380.3	3,445.1	3,414.5	10.7	8.9	147.59	58.1	144.3	161.7	143.6	18.11	8.929	
3,420.0	3,400.0	3,465.0	3,433.7	10.8	9.0	147.09	61.9	147.5	160.4	142.2	18.21	8.809	
3,500.0	3,479.1	3,544.6	3,510.8	11.1	9.4	144.98	77.3	160.2	155.1	136.6	18.55	8.362	
3,515.0	3,493.9	3,559.6	3,525.3	11.2	9.4	144.57	80.1	162.6	154.2	135.6	18.61	8.284	
3,600.0	3,577.8	3,644.2	3,607.2	11.5	9.8	142.14	96.4	176.2	148.9	130.0	18.92	7.870	
3,610.0	3,587.7	3,654.1	3,616.8	11.5	9.8	141.84	98.3	177.8	148.3	129.4	18.96	7.825	
3,700.0	3,676.6	3,743.7	3,703.5	11.9	10.2	139.06	115.6	192.1	143.1	123.9	19.21	7.451	
3,705.0	3,681.5	3,748.7	3,708.3	11.9	10.3	138.90	116.5	192.9	142.8	123.6	19.22	7.432	
3,800.0	3,775.4	3,843.2	3,799.9	12.3	10.7	135.74	134.7	208.1	137.7	118.3	19.40	7.102	
3,895.0	3,869.2	3,937.7	3,891.4	12.7	11.1	132.34	152.9	223.2	133.1	113.6	19.48	6.834	
3,900.0	3,874.1	3,942.7	3,896.2	12.7	11.1	132.16	153.9	224.0	132.9	113.4	19.48	6.822	
3,990.0	3,963.0	4,032.3	3,982.9	13.1	11.5	128.72	171.1	238.4	129.0	109.5	19.45	6.629	
4,000.0	3,972.9	4,042.2	3,992.6	13.1	11.6	128.32	173.0	240.0	128.6	109.1	19.45	6.611	
4,085.0	4,056.9	4,126.8	4,074.5	13.5	12.0	124.87	189.3	253.5	125.4	106.0	19.34	6.485	
4,100.0	4,071.7	4,141.8	4,088.9	13.6	12.0	124.25	192.2	255.9	124.9	105.6	19.31	6.467	
4,180.0	4,150.7	4,221.4	4,166.0	13.9	12.4	120.82	207.5	268.7	122.4	103.3	19.13	6.399	
4,200.0	4,170.4	4,241.3	4,185.3	14.0	12.5	119.94	211.3	271.9	121.8	102.8	19.07	6.388	
4,210.2	4,180.5	4,251.4	4,195.1	14.0	12.5	119.49	213.3	273.5	121.6	102.5	19.04	6.386	
4,275.0	4,244.6	4,315.9	4,257.5	14.3	12.8	116.42	225.7	283.8	119.9	101.1	18.81	6.374	
4,300.0	4,269.3	4,340.7	4,281.5	14.4	12.9	115.13	230.5	287.8	119.3	100.6	18.70	6.377	
4,370.0	4,338.7	4,410.2	4,348.8	14.7	13.3	111.20	243.8	299.0	117.6	99.2	18.36	6.404	
4,400.0	4,368.4	4,440.0	4,377.6	14.8	13.4	109.37	249.6	303.7	116.9	98.7	18.20	6.425	
4,465.0	4,433.0	4,504.4	4,440.0	15.0	13.7	105.10	262.0	314.0	115.9	98.0	17.86	6.487	
4,500.0	4,467.8	4,539.0	4,473.5	15.2	13.9	102.63	268.6	319.6	115.5	97.8	17.70	6.524	
4,550.8	4,518.3	4,589.2	4,522.1	15.4	14.1	98.86	278.3	327.6	115.3	97.7	17.53	6.574 CC, ES	
4,560.0	4,527.5	4,598.3	4,530.9	15.4	14.1	98.15	280.0	329.1	115.3	97.8	17.51	6.582	
4,600.0	4,567.3	4,637.8	4,569.2	15.6	14.3	95.01	287.6	335.4	115.5	98.0	17.48	6.607	
4,655.0	4,622.1	4,692.0	4,621.6	15.8	14.6	90.52	298.1	344.1	116.4	98.8	17.61	6.610	
4,700.0	4,667.0	4,736.3	4,664.5	15.9	14.8	86.74	306.6	351.2	117.7	99.8	17.89	6.579	
4,750.0	4,716.9	4,785.5	4,712.1	16.1	15.0	82.47	316.0	359.1	119.8	101.4	18.40	6.509	
4,800.0	4,766.8	4,834.5	4,759.6	16.3	15.3	78.19	325.5	366.9	122.6	103.5	19.12	6.412	
4,845.0	4,811.7	4,878.6	4,802.2	16.4	15.5	74.37	334.0	374.0	125.9	105.9	19.93	6.315	
4,900.0	4,866.7	4,932.4	4,854.3	16.6	15.7	69.80	344.3	382.6	130.7	109.7	21.07	6.204	
4,940.0	4,906.6	4,971.4	4,892.1	16.7	15.9	66.58	351.8	388.9	134.9	113.0	21.98	6.139	
5,000.0	4,966.6	5,029.8	4,948.7	16.9	16.2	61.95	363.1	398.2	142.2	118.8	23.40	6.078	
5,035.0	5,001.6	5,063.8	4,981.6	17.0	16.3	59.39	369.6	403.7	147.1	122.8	24.23	6.069 SF	
5,100.0	5,066.6	5,126.9	5,042.6	17.1	16.6	54.89	381.7	413.8	157.1	131.4	25.75	6.101	
5,110.4	5,077.0	5,137.0	5,052.4	17.1	16.7	88.51	383.7	415.4	158.8	132.9	25.98	6.114	
5,130.0	5,096.6	5,155.9	5,070.8	17.1	16.8	87.22	387.3	418.5	162.2	135.8	26.40	6.143	

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 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						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,200.0	5,166.6	5,223.7	5,136.4	17.2	17.1	83.05	400.4	429.3	174.7	146.9	27.79	6.286		
5,225.0	5,191.6	5,247.9	5,159.8	17.2	17.2	81.70	405.0	433.2	179.4	151.1	28.25	6.349		
5,300.0	5,266.6	5,320.5	5,230.1	17.2	17.6	78.03	419.0	444.8	193.9	164.4	29.52	6.570		
5,320.0	5,286.6	5,339.9	5,248.8	17.2	17.7	77.15	422.7	447.9	198.0	168.1	29.83	6.635		
5,400.0	5,366.6	5,417.3	5,323.8	17.3	18.0	73.93	437.6	460.3	214.4	183.4	30.98	6.920		
5,415.0	5,381.6	5,431.9	5,337.9	17.3	18.1	73.38	440.4	462.7	217.5	186.4	31.18	6.976		
5,500.0	5,466.6	5,514.2	5,417.6	17.3	18.5	70.54	456.3	475.9	235.7	203.5	32.24	7.312		
5,510.0	5,476.6	5,523.8	5,426.9	17.4	18.5	70.23	458.1	477.4	237.9	205.5	32.36	7.353		
5,600.0	5,566.6	5,611.0	5,511.3	17.4	19.0	67.71	474.9	491.4	257.7	224.4	33.34	7.730		
5,605.0	5,571.6	5,615.8	5,516.0	17.4	19.0	67.58	475.8	492.2	258.8	225.5	33.40	7.751		
5,700.0	5,666.6	5,707.8	5,605.0	17.5	19.4	65.33	493.5	506.9	280.2	245.9	34.33	8.163		
5,795.0	5,761.6	5,799.8	5,694.1	17.5	19.9	63.39	511.2	521.6	302.0	266.8	35.19	8.582		
5,800.0	5,766.6	5,804.6	5,698.7	17.5	19.9	63.29	512.2	522.4	303.2	267.9	35.23	8.605		
5,890.0	5,856.6	5,891.7	5,783.1	17.6	20.3	61.71	528.9	536.4	324.0	288.1	35.99	9.005		
5,900.0	5,866.6	5,901.4	5,792.5	17.6	20.4	61.55	530.8	537.9	326.4	290.3	36.07	9.049		
5,985.0	5,951.6	5,983.7	5,872.1	17.6	20.8	60.25	546.6	551.1	346.3	309.6	36.74	9.427		
6,000.0	5,966.6	5,998.2	5,886.2	17.6	20.8	60.03	549.4	553.4	349.9	313.0	36.85	9.494		
6,080.0	6,046.6	6,075.7	5,961.2	17.7	21.2	58.96	564.3	565.8	368.8	331.3	37.45	9.848		
6,100.0	6,066.6	6,095.0	5,979.9	17.7	21.3	58.71	568.1	569.0	373.5	335.9	37.59	9.936		
6,175.0	6,141.6	6,167.6	6,050.2	17.7	21.6	57.82	582.0	580.6	391.4	353.3	38.13	10.265		
6,200.0	6,166.6	6,191.8	6,073.7	17.7	21.8	57.54	586.7	584.5	397.4	359.1	38.30	10.374		
6,270.0	6,236.6	6,270.2	6,149.7	17.8	22.1	56.73	601.0	596.4	413.3	374.4	38.87	10.632		
6,300.0	6,266.6	6,304.2	6,182.9	17.8	22.3	56.43	606.7	601.2	419.6	380.5	39.11	10.730		
6,365.0	6,331.6	6,378.5	6,255.7	17.8	22.7	55.86	618.2	610.7	432.1	392.5	39.58	10.918		
6,400.0	6,366.6	6,418.8	6,295.4	17.8	22.9	55.59	623.8	615.3	438.2	398.4	39.81	11.006		
6,460.0	6,426.6	6,488.4	6,364.1	17.9	23.2	55.19	632.4	622.5	447.6	407.4	40.19	11.136		
6,500.0	6,466.6	6,535.1	6,410.3	17.9	23.4	54.97	637.5	626.8	453.0	412.6	40.42	11.208		
6,555.0	6,521.6	6,599.6	6,474.3	17.9	23.7	54.71	643.6	631.8	459.5	418.8	40.71	11.288		
6,600.0	6,566.6	6,652.6	6,527.0	18.0	23.9	54.54	647.7	635.3	464.0	423.1	40.92	11.340		
6,650.0	6,616.6	6,711.8	6,586.0	18.0	24.1	54.38	651.5	638.4	468.0	426.9	41.12	11.380		
6,700.0	6,666.6	6,771.1	6,645.2	18.0	24.4	54.27	654.3	640.8	471.0	429.7	41.29	11.406		
6,745.0	6,711.6	6,824.6	6,698.6	18.0	24.5	54.20	656.0	642.2	472.8	431.4	41.41	11.417		
6,800.0	6,766.6	6,890.0	6,764.1	18.1	24.7	54.16	657.1	643.1	474.0	432.5	41.51	11.417		
6,840.0	6,806.6	6,934.7	6,808.7	18.1	24.8	54.16	657.2	643.2	474.1	432.6	41.53	11.416		
6,900.0	6,866.6	6,994.7	6,868.7	18.1	24.8	54.16	657.2	643.2	474.1	432.5	41.58	11.401		
6,935.0	6,901.6	7,029.7	6,903.7	18.2	24.8	54.16	657.2	643.2	474.1	432.5	41.62	11.392		
7,000.0	6,966.6	7,094.7	6,968.7	18.2	24.8	54.16	657.2	643.2	474.1	432.4	41.68	11.375		
7,030.0	6,996.6	7,142.6	7,016.6	18.2	24.9	54.27	656.0	643.2	473.7	432.3	41.43	11.436		
7,100.0	7,066.6	7,274.9	7,146.5	18.2	24.9	56.64	632.5	643.0	466.4	426.5	39.92	11.683		
7,125.0	7,091.6	7,318.7	7,187.9	18.3	25.0	58.14	618.2	642.9	461.8	422.5	39.26	11.761		
7,200.0	7,166.6	7,434.7	7,291.0	18.3	25.1	64.14	565.5	642.4	443.4	406.1	37.25	11.902		
7,220.0	7,186.6	7,461.5	7,313.2	18.3	25.1	65.98	550.4	642.3	437.8	401.0	36.75	11.911		
7,300.0	7,266.6	7,552.7	7,382.8	18.4	25.1	73.68	491.7	641.8	415.0	379.9	35.03	11.844		
7,315.0	7,281.6	7,567.2	7,393.0	18.4	25.2	75.11	481.4	641.7	410.9	376.1	34.76	11.820		
7,400.0	7,366.6	7,636.8	7,438.1	18.4	25.2	82.72	428.4	641.2	391.6	358.2	33.45	11.708		
7,410.0	7,376.6	7,643.8	7,442.3	18.4	25.2	83.55	422.8	641.2	389.9	356.6	33.32	11.703		
7,500.0	7,466.6	7,697.4	7,471.9	18.5	25.3	90.21	378.2	640.8	381.9	349.7	32.23	11.850		
7,504.3	7,470.9	7,699.6	7,473.0	18.5	25.3	90.50	376.3	640.8	381.9	349.7	32.18	11.867		
7,505.0	7,471.6	7,700.0	7,473.2	18.5	25.3	90.54	376.0	640.8	381.9	349.7	32.17	11.870		
7,600.0	7,566.6	7,742.2	7,493.3	18.5	25.3	96.09	338.9	640.4	391.0	359.9	31.17	12.545		
7,695.0	7,661.6	7,774.7	7,506.9	18.6	25.3	100.44	309.3	640.2	418.2	387.9	30.32	13.791		

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #503H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7106-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Rule Assigned:				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 Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
7,700.0	7,666.6	7,776.2	7,507.5	18.6	25.3	100.64	307.9	640.2	420.1	389.8	30.28	13.872		
7,790.0	7,756.6	7,800.0	7,516.4	18.6	25.3	103.82	285.9	640.0	461.2	431.5	29.71	15.526		
7,800.0	7,766.6	7,800.0	7,516.4	18.7	25.3	103.82	285.9	640.0	466.6	436.8	29.74	15.690		
7,885.0	7,851.6	7,821.2	7,523.4	18.7	25.3	106.62	265.9	639.8	516.8	487.5	29.29	17.644		
7,900.0	7,866.6	7,824.1	7,524.4	18.7	25.3	107.00	263.1	639.8	526.5	497.3	29.25	18.002		
7,980.0	7,946.6	7,838.2	7,528.6	18.8	25.4	108.84	249.6	639.7	581.7	552.6	29.08	20.001		
8,000.0	7,966.6	7,850.0	7,531.9	18.8	25.4	110.36	238.4	639.6	596.4	567.5	28.87	20.656		
8,075.0	8,041.6	7,850.0	7,531.9	18.8	25.4	110.36	238.4	639.6	653.3	624.3	29.06	22.482		
8,100.0	8,066.6	7,850.0	7,531.9	18.8	25.4	110.36	238.4	639.6	673.1	644.0	29.11	23.118		
8,170.0	8,136.6	7,864.6	7,535.6	18.9	25.4	112.20	224.3	639.4	729.8	700.8	29.04	25.129		
8,200.0	8,166.6	7,868.0	7,536.5	18.9	25.4	112.63	221.0	639.4	754.8	725.7	29.07	25.967		
8,265.0	8,231.6	7,874.9	7,538.1	18.9	25.4	113.49	214.3	639.4	810.0	780.8	29.14	27.797		
8,300.0	8,266.6	7,878.3	7,538.8	19.0	25.4	113.91	210.9	639.3	840.2	811.0	29.19	28.788		
8,360.0	8,326.6	7,883.8	7,540.0	19.0	25.4	114.59	205.5	639.3	892.8	863.5	29.28	30.491		
8,400.0	8,366.6	7,900.0	7,543.2	19.0	25.4	116.54	189.7	639.1	928.5	899.3	29.23	31.763		
8,417.4	8,384.0	7,900.0	7,543.2	19.0	25.4	116.54	189.7	639.1	944.0	914.7	29.32	32.200		
8,450.0	8,416.6	7,900.0	7,543.2	19.0	25.4	-58.39	189.7	639.1	973.0	943.6	29.41	33.084		
8,455.0	8,421.6	7,900.0	7,543.2	19.0	25.4	-57.58	189.7	639.1	977.5	948.0	29.43	33.216		
8,500.0	8,466.3	7,900.0	7,543.2	19.1	25.4	-50.79	189.7	639.1	1,017.1	987.5	29.59	34.369		
8,550.0	8,515.4	7,900.0	7,543.2	19.1	25.4	-44.39	189.7	639.1	1,060.4	1,030.6	29.81	35.569		
8,600.0	8,563.5	7,900.0	7,543.2	19.2	25.4	-39.09	189.7	639.1	1,102.8	1,072.7	30.07	36.678		
8,645.0	8,605.7	7,919.6	7,546.5	19.2	25.4	-34.33	170.4	639.0	1,139.4	1,109.2	30.19	37.745		
8,650.0	8,610.3	7,920.5	7,546.6	19.2	25.4	-33.92	169.5	639.0	1,143.4	1,113.2	30.21	37.848		
8,700.0	8,655.3	7,930.0	7,548.0	19.3	25.4	-30.23	160.0	638.9	1,182.6	1,152.1	30.46	38.819		
8,740.0	8,689.8	7,950.0	7,550.3	19.3	25.4	-27.48	140.2	638.7	1,212.9	1,182.3	30.61	39.621		
8,750.0	8,698.3	7,950.0	7,550.3	19.3	25.4	-27.00	140.2	638.7	1,220.2	1,189.5	30.68	39.766		
8,800.0	8,738.8	7,950.0	7,550.3	19.4	25.4	-24.82	140.2	638.7	1,255.5	1,224.4	31.05	40.432		
8,835.0	8,765.6	7,950.0	7,550.3	19.4	25.4	-23.50	140.2	638.7	1,279.2	1,247.8	31.32	40.836		
8,850.0	8,776.7	7,950.0	7,550.3	19.5	25.4	-22.99	140.2	638.7	1,289.0	1,257.6	31.44	40.993		
8,900.0	8,811.6	7,974.6	7,552.1	19.5	25.4	-21.15	115.6	638.5	1,319.9	1,288.2	31.71	41.618		

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #504H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7065-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	3.0	3.0	3.0	3.0	3.0	-149.44	-151.6	-89.5	176.0				
95.0	95.0	98.0	98.0	3.0	3.0	3.0	-149.44	-151.6	-89.5	176.0	170.0	6.02	29.254	
100.0	100.0	103.0	103.0	3.0	3.0	3.0	-149.44	-151.6	-89.5	176.0	170.0	6.02	29.239	
190.0	190.0	193.0	193.0	3.1	3.0	3.0	-149.44	-151.6	-89.5	176.0	169.9	6.13	28.708	
200.0	200.0	203.0	203.0	3.1	3.0	3.0	-149.44	-151.6	-89.5	176.0	169.9	6.15	28.625	
285.0	285.0	288.0	288.0	3.3	3.0	3.0	-149.44	-151.6	-89.5	176.0	169.8	6.26	28.122	
300.0	300.0	303.0	303.0	3.3	3.0	3.0	-149.44	-151.6	-89.5	176.0	169.8	6.28	28.023	
380.0	380.0	383.0	383.0	3.4	3.0	3.0	-149.44	-151.6	-89.5	176.0	169.7	6.39	27.558	
400.0	400.0	403.0	403.0	3.4	3.0	3.0	-149.44	-151.6	-89.5	176.0	169.6	6.42	27.433	
475.0	475.0	478.0	478.0	3.5	3.0	3.0	-149.44	-151.6	-89.5	176.0	169.5	6.52	27.005	
500.0	500.0	503.0	503.0	3.5	3.1	3.1	-149.44	-151.6	-89.5	176.0	169.5	6.56	26.856	
570.0	570.0	573.0	573.0	3.6	3.1	3.1	-149.44	-151.6	-89.5	176.0	169.4	6.65	26.463	
600.0	600.0	603.0	603.0	3.6	3.1	3.1	-149.44	-151.6	-89.5	176.0	169.4	6.70	26.290	
665.0	665.0	668.0	668.0	3.7	3.1	3.1	-149.44	-151.6	-89.5	176.0	169.3	6.79	25.932	
700.0	700.0	703.0	703.0	3.8	3.1	3.1	-149.44	-151.6	-89.5	176.0	169.2	6.84	25.736	
760.0	760.0	763.0	763.0	3.8	3.1	3.1	-149.44	-151.6	-89.5	176.0	169.1	6.93	25.412	
800.0	800.0	803.0	803.0	3.9	3.2	3.2	-149.44	-151.6	-89.5	176.0	169.1	6.99	25.193	
855.0	855.0	858.0	858.0	4.0	3.2	3.2	-149.44	-151.6	-89.5	176.0	169.0	7.07	24.902	
900.0	900.0	903.0	903.0	4.0	3.2	3.2	-149.44	-151.6	-89.5	176.0	168.9	7.14	24.662	
950.0	950.0	953.0	953.0	4.1	3.2	3.2	-149.44	-151.6	-89.5	176.0	168.8	7.21	24.403	
1,000.0	1,000.0	1,003.0	1,003.0	4.1	3.2	3.2	-149.44	-151.6	-89.5	176.0	168.8	7.29	24.143	
1,045.0	1,045.0	1,048.0	1,048.0	4.2	3.3	3.3	-149.44	-151.6	-89.5	176.0	168.7	7.36	23.915	
1,100.0	1,100.0	1,103.0	1,103.0	4.2	3.3	3.3	-149.44	-151.6	-89.5	176.0	168.6	7.45	23.635	
1,140.0	1,140.0	1,143.0	1,143.0	4.3	3.3	3.3	-149.44	-151.6	-89.5	176.0	168.5	7.51	23.437	
1,200.0	1,200.0	1,203.0	1,203.0	4.4	3.4	3.4	-149.44	-151.6	-89.5	176.0	168.4	7.61	23.140	
1,235.0	1,235.0	1,238.0	1,238.0	4.4	3.4	3.4	-149.44	-151.6	-89.5	176.0	168.4	7.66	22.970	
1,300.0	1,300.0	1,303.0	1,303.0	4.5	3.4	3.4	-149.44	-151.6	-89.5	176.0	168.3	7.77	22.657	
1,330.0	1,330.0	1,333.0	1,333.0	4.5	3.4	3.4	-149.44	-151.6	-89.5	176.0	168.2	7.82	22.515	
1,400.0	1,400.0	1,403.0	1,403.0	4.6	3.5	3.5	-149.44	-151.6	-89.5	176.0	168.1	7.94	22.186	
1,425.0	1,425.0	1,428.0	1,428.0	4.6	3.5	3.5	-149.44	-151.6	-89.5	176.0	168.1	7.98	22.070	
1,500.0	1,500.0	1,503.0	1,503.0	4.7	3.5	3.5	-149.44	-151.6	-89.5	176.0	167.9	8.10	21.727 CC, ES	
1,520.0	1,520.0	1,523.0	1,523.0	4.8	3.6	3.6	176.26	-151.6	-89.5	176.1	168.0	8.15	21.617	
1,600.0	1,600.0	1,603.0	1,603.0	4.9	3.6	3.6	176.30	-151.6	-89.5	177.8	169.4	8.36	21.262	
1,615.0	1,615.0	1,618.0	1,618.0	4.9	3.6	3.6	176.31	-151.6	-89.5	178.4	169.9	8.41	21.207	
1,700.0	1,699.8	1,702.8	1,702.8	5.1	3.7	3.7	176.39	-151.6	-89.5	183.0	174.3	8.69	21.053	
1,710.0	1,709.8	1,712.8	1,712.8	5.2	3.7	3.7	176.41	-151.6	-89.5	183.7	175.0	8.73	21.053 SF	
1,800.0	1,799.5	1,802.5	1,802.5	5.4	3.8	3.8	176.55	-151.6	-89.5	191.7	182.7	9.04	21.206	
1,805.0	1,804.4	1,807.4	1,807.4	5.4	3.8	3.8	176.56	-151.6	-89.5	192.2	183.2	9.06	21.222	
1,900.0	1,898.7	1,901.7	1,901.7	5.7	3.9	3.9	176.74	-151.6	-89.5	203.9	194.5	9.41	21.671	
1,950.1	1,948.2	1,951.2	1,951.2	5.8	3.9	3.9	176.85	-151.6	-89.5	211.3	201.7	9.53	22.171	
1,995.0	1,992.6	1,995.6	1,995.6	5.9	3.9	3.9	176.95	-151.6	-89.5	218.3	208.6	9.64	22.649	
2,000.0	1,997.5	2,000.6	2,000.6	5.9	3.9	3.9	176.96	-151.6	-89.5	219.1	209.4	9.65	22.699	
2,090.0	2,086.4	2,092.2	2,092.2	6.1	4.1	4.1	177.49	-150.4	-90.4	232.6	222.6	10.01	23.238	
2,100.0	2,096.3	2,102.4	2,102.4	6.1	4.2	4.2	177.59	-150.1	-90.6	234.0	224.0	10.05	23.295	
2,185.0	2,180.3	2,189.1	2,189.0	6.4	4.4	4.4	178.68	-146.6	-93.2	245.8	235.3	10.45	23.524	
2,200.0	2,195.1	2,204.4	2,204.3	6.4	4.4	4.4	178.93	-145.7	-93.8	247.8	237.2	10.52	23.556	
2,280.0	2,274.1	2,286.0	2,285.5	6.7	4.7	4.7	-179.56	-140.1	-97.9	258.0	247.1	10.90	23.678	
2,300.0	2,293.8	2,306.3	2,305.7	6.7	4.7	4.7	-179.12	-138.4	-99.2	260.4	249.5	10.99	23.701	
2,375.0	2,367.9	2,382.5	2,381.3	7.0	5.0	5.0	-177.31	-131.0	-104.6	269.5	258.1	11.34	23.763	
2,400.0	2,392.6	2,407.8	2,406.4	7.0	5.1	5.1	-176.64	-128.2	-106.6	272.4	260.9	11.45	23.780	
2,470.0	2,461.7	2,478.5	2,476.2	7.3	5.3	5.3	-174.62	-119.5	-113.1	280.5	268.7	11.77	23.822	

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #504H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7065-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation		Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
2,500.0	2,491.4	2,508.6	2,506.0	7.4	5.4	-173.69	-115.3	-116.1	283.9	272.0	11.91	23.844	
2,565.0	2,555.6	2,573.7	2,569.9	7.6	5.7	-171.55	-105.4	-123.4	291.5	279.3	12.20	23.897	
2,600.0	2,590.1	2,608.6	2,604.0	7.7	5.8	-170.34	-99.7	-127.6	295.6	283.2	12.35	23.937	
2,660.0	2,649.4	2,668.0	2,662.0	7.9	6.0	-168.16	-89.1	-135.4	302.7	290.1	12.60	24.023	
2,700.0	2,688.9	2,707.3	2,700.2	8.1	6.2	-166.66	-81.6	-140.9	307.7	294.9	12.77	24.101	
2,755.0	2,743.2	2,760.8	2,752.0	8.2	6.4	-164.64	-71.1	-148.5	314.8	301.8	12.99	24.231	
2,800.0	2,787.7	2,804.4	2,794.4	8.4	6.5	-163.06	-62.6	-154.8	320.9	307.7	13.18	24.356	
2,850.0	2,837.1	2,853.0	2,841.5	8.6	6.7	-161.37	-53.2	-161.7	328.0	314.6	13.38	24.508	
2,900.0	2,886.5	2,901.5	2,888.6	8.8	6.8	-159.75	-43.7	-168.7	335.3	321.7	13.59	24.674	
2,945.0	2,930.9	2,945.2	2,931.0	8.9	7.0	-158.35	-35.2	-174.9	342.1	328.4	13.78	24.832	
3,000.0	2,985.2	2,998.6	2,982.8	9.2	7.2	-156.71	-24.7	-182.6	350.7	336.7	14.01	25.036	
3,040.0	3,024.7	3,037.5	3,020.5	9.3	7.3	-155.57	-17.2	-188.1	357.2	343.0	14.18	25.190	
3,100.0	3,084.0	3,095.7	3,077.0	9.5	7.6	-153.93	-5.8	-196.5	367.1	352.7	14.44	25.426	
3,135.0	3,118.6	3,129.7	3,110.0	9.7	7.7	-153.01	0.8	-201.3	373.0	358.4	14.59	25.567	
3,200.0	3,182.8	3,192.8	3,171.2	9.9	7.9	-151.38	13.1	-210.4	384.3	369.4	14.88	25.831	
3,230.0	3,212.4	3,221.9	3,199.5	10.0	8.1	-150.66	18.8	-214.5	389.5	374.5	15.01	25.953	
3,300.0	3,281.5	3,289.9	3,265.4	10.3	8.3	-149.05	32.1	-224.3	402.1	386.8	15.32	26.240	
3,325.0	3,306.2	3,314.2	3,289.0	10.4	8.4	-148.50	36.8	-227.7	406.7	391.2	15.44	26.342	
3,400.0	3,380.3	3,387.0	3,359.7	10.7	8.7	-146.92	51.0	-238.2	420.6	404.8	15.78	26.646	
3,420.0	3,400.0	3,406.4	3,378.5	10.8	8.8	-146.51	54.8	-241.0	424.3	408.4	15.88	26.727	
3,500.0	3,479.1	3,484.1	3,453.9	11.1	9.1	-144.96	69.9	-252.1	439.5	423.3	16.25	27.045	
3,515.0	3,493.9	3,498.7	3,468.0	11.2	9.2	-144.68	72.8	-254.2	442.4	426.1	16.32	27.104	
3,600.0	3,577.8	3,581.2	3,548.1	11.5	9.6	-143.16	88.9	-266.0	459.0	442.3	16.73	27.432	
3,610.0	3,587.7	3,590.9	3,557.5	11.5	9.6	-142.99	90.8	-267.4	461.0	444.2	16.78	27.470	
3,700.0	3,676.6	3,678.3	3,642.3	11.9	10.0	-141.51	107.8	-279.9	478.8	461.6	17.22	27.806	
3,705.0	3,681.5	3,683.1	3,647.0	11.9	10.0	-141.43	108.8	-280.6	479.8	462.6	17.25	27.825	
3,800.0	3,775.4	3,775.4	3,736.5	12.3	10.4	-139.99	126.8	-293.8	499.1	481.3	17.72	28.166	
3,895.0	3,869.2	3,867.6	3,826.0	12.7	10.8	-138.66	144.7	-307.0	518.5	500.3	18.20	28.493	
3,900.0	3,874.1	3,872.5	3,830.7	12.7	10.8	-138.59	145.7	-307.7	519.6	501.4	18.22	28.510	
3,990.0	3,963.0	3,959.9	3,915.5	13.1	11.2	-137.42	162.7	-320.2	538.3	519.6	18.69	28.807	
4,000.0	3,972.9	3,969.6	3,924.9	13.1	11.3	-137.29	164.6	-321.6	540.4	521.6	18.74	28.839	
4,085.0	4,056.9	4,052.1	4,005.0	13.5	11.6	-136.26	180.7	-333.4	558.3	539.1	19.18	29.107	
4,100.0	4,071.7	4,066.7	4,019.1	13.6	11.7	-136.09	183.6	-335.4	561.4	542.2	19.26	29.153	
4,180.0	4,150.7	4,144.3	4,094.5	13.9	12.0	-135.19	198.7	-346.6	578.4	558.8	19.68	29.394	
4,200.0	4,170.4	4,163.8	4,113.3	14.0	12.1	-134.97	202.5	-349.3	582.7	562.9	19.79	29.453	
4,210.2	4,180.5	4,173.7	4,122.9	14.0	12.2	-134.86	204.4	-350.8	584.9	565.1	19.83	29.491	
4,275.0	4,244.6	4,236.6	4,184.0	14.3	12.5	-134.26	216.7	-359.8	598.6	578.4	20.17	29.676	
4,300.0	4,269.3	4,260.9	4,207.6	14.4	12.6	-134.02	221.5	-363.2	603.7	583.4	20.30	29.740	
4,370.0	4,338.7	4,329.0	4,273.6	14.7	12.9	-133.34	234.7	-373.0	617.8	597.2	20.67	29.897	
4,400.0	4,368.4	4,358.1	4,301.9	14.8	13.0	-133.04	240.4	-377.2	623.8	602.9	20.82	29.955	
4,465.0	4,433.0	4,421.4	4,363.3	15.0	13.3	-132.38	252.8	-386.2	636.3	615.1	21.16	30.070	
4,500.0	4,467.8	4,455.4	4,396.4	15.2	13.5	-132.01	259.4	-391.1	642.9	621.5	21.34	30.123	
4,560.0	4,527.5	4,513.9	4,453.0	15.4	13.7	-131.37	270.8	-399.5	653.9	632.3	21.65	30.205	
4,600.0	4,567.3	4,552.8	4,490.8	15.6	13.9	-130.93	278.4	-405.0	661.1	639.3	21.85	30.250	
4,655.0	4,622.1	4,606.3	4,542.8	15.8	14.2	-130.32	288.8	-412.7	670.8	648.7	22.13	30.308	
4,700.0	4,667.0	4,650.2	4,585.3	15.9	14.4	-129.80	297.4	-419.0	678.5	656.2	22.36	30.344	
4,750.0	4,716.9	4,698.8	4,632.5	16.1	14.6	-129.22	306.9	-425.9	687.0	664.4	22.61	30.383	
4,800.0	4,766.8	4,747.5	4,679.7	16.3	14.8	-128.62	316.4	-432.9	695.2	672.4	22.86	30.410	
4,845.0	4,811.7	4,791.3	4,722.2	16.4	15.0	-128.07	324.9	-439.2	702.5	679.4	23.08	30.435	
4,900.0	4,866.7	4,844.8	4,774.1	16.6	15.3	-127.39	335.3	-446.8	711.2	687.8	23.35	30.456	
4,940.0	4,906.6	4,883.7	4,811.9	16.7	15.5	-126.88	342.9	-452.4	717.4	693.9	23.54	30.473	

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 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		
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	
5,000.0	4,966.6	4,942.0	4,868.5	16.9	15.7	-126.11	354.3	-460.7	726.5	702.7	23.83	30.487		
5,035.0	5,001.6	4,976.0	4,901.5	17.0	15.9	-125.65	360.9	-465.6	731.8	707.8	23.99	30.505		
5,100.0	5,066.6	5,039.1	4,962.7	17.1	16.2	-124.78	373.2	-474.6	741.3	717.0	24.28	30.526		
5,110.4	5,077.0	5,049.2	4,972.5	17.1	16.2	-90.34	375.2	-476.1	742.8	718.5	24.32	30.542		
5,130.0	5,096.6	5,068.2	4,990.9	17.1	16.3	-90.05	378.9	-478.8	745.7	721.3	24.39	30.566		
5,200.0	5,166.6	5,136.1	5,056.8	17.2	16.6	-89.04	392.2	-488.5	756.0	731.3	24.67	30.650		
5,225.0	5,191.6	5,160.4	5,080.4	17.2	16.8	-88.68	396.9	-492.0	759.7	735.0	24.77	30.676		
5,300.0	5,266.6	5,233.2	5,151.0	17.2	17.1	-87.63	411.1	-502.4	771.1	746.1	25.08	30.751		
5,320.0	5,286.6	5,252.6	5,169.8	17.2	17.2	-87.36	414.9	-505.2	774.2	749.1	25.16	30.770		
5,400.0	5,366.6	5,330.2	5,245.1	17.3	17.6	-86.28	430.0	-516.3	786.7	761.2	25.51	30.845		
5,415.0	5,381.6	5,344.8	5,259.3	17.3	17.6	-86.08	432.9	-518.4	789.1	763.5	25.57	30.858		
5,500.0	5,466.6	5,427.2	5,339.3	17.3	18.0	-84.98	448.9	-530.2	802.8	776.8	25.95	30.931		
5,510.0	5,476.6	5,436.9	5,348.7	17.4	18.1	-84.85	450.8	-531.6	804.4	778.4	26.00	30.939		
5,600.0	5,566.6	5,524.3	5,433.4	17.4	18.5	-83.73	467.9	-544.1	819.2	792.8	26.42	31.011		
5,605.0	5,571.6	5,529.1	5,438.1	17.4	18.5	-83.67	468.8	-544.8	820.0	793.6	26.44	31.015		
5,700.0	5,666.6	5,621.3	5,527.6	17.5	18.9	-82.52	486.8	-558.0	836.0	809.1	26.89	31.085		
5,795.0	5,761.6	5,713.5	5,617.0	17.5	19.4	-81.42	504.8	-571.1	852.3	825.0	27.36	31.150		
5,800.0	5,766.6	5,718.3	5,621.7	17.5	19.4	-81.37	505.7	-571.8	853.2	825.8	27.39	31.154		
5,890.0	5,856.6	5,805.7	5,706.5	17.6	19.8	-80.36	522.8	-584.3	868.9	841.1	27.84	31.212		
5,900.0	5,866.6	5,815.4	5,715.9	17.6	19.9	-80.26	524.6	-585.7	870.7	842.8	27.89	31.218		
5,985.0	5,951.6	5,897.8	5,795.9	17.6	20.3	-79.34	540.7	-597.5	885.8	857.5	28.33	31.270		
6,000.0	5,966.6	5,912.4	5,810.0	17.6	20.3	-79.19	543.6	-599.6	888.5	860.1	28.40	31.281		
6,080.0	6,046.6	5,997.5	5,892.6	17.7	20.7	-78.29	560.0	-611.7	902.9	874.0	28.84	31.305		
6,100.0	6,066.6	6,023.1	5,917.5	17.7	20.9	-78.04	564.7	-615.1	906.3	877.3	28.98	31.278		
6,175.0	6,141.6	6,119.8	6,012.2	17.7	21.3	-77.20	580.8	-626.9	918.0	888.5	29.47	31.147		
6,200.0	6,166.6	6,152.3	6,044.2	17.7	21.5	-76.96	585.6	-630.5	921.5	891.9	29.63	31.099		
6,270.0	6,236.6	6,244.1	6,134.7	17.8	21.9	-76.36	597.6	-639.3	930.2	900.1	30.06	30.948		
6,300.0	6,266.6	6,283.7	6,174.0	17.8	22.1	-76.14	602.1	-642.6	933.4	903.2	30.23	30.877		
6,365.0	6,331.6	6,370.1	6,259.7	17.8	22.5	-75.74	610.3	-648.6	939.4	908.8	30.58	30.718		
6,400.0	6,366.6	6,416.8	6,306.2	17.8	22.6	-75.56	613.9	-651.2	941.9	911.2	30.75	30.627		
6,460.0	6,426.6	6,497.2	6,386.4	17.9	23.0	-75.34	618.6	-654.7	945.3	914.3	31.03	30.468		
6,500.0	6,466.6	6,550.9	6,440.1	17.9	23.1	-75.24	620.8	-656.3	946.9	915.7	31.18	30.369		
6,555.0	6,521.6	6,625.0	6,514.1	17.9	23.4	-75.16	622.4	-657.4	948.0	916.7	31.34	30.252		
6,600.0	6,566.6	6,680.5	6,569.6	18.0	23.4	-75.15	622.6	-657.6	948.2	916.8	31.39	30.202		
6,650.0	6,616.6	6,730.5	6,619.6	18.0	23.4	-75.15	622.6	-657.6	948.2	916.7	31.45	30.145		
6,700.0	6,666.6	6,780.5	6,669.6	18.0	23.5	-75.15	622.6	-657.6	948.2	916.7	31.52	30.083		
6,745.0	6,711.6	6,825.5	6,714.6	18.0	23.5	-75.15	622.6	-657.6	948.2	916.6	31.58	30.028		
6,800.0	6,766.6	6,880.5	6,769.6	18.1	23.5	-75.15	622.6	-657.6	948.2	916.5	31.65	29.960		
6,840.0	6,806.6	6,920.5	6,809.6	18.1	23.5	-75.15	622.6	-657.6	948.2	916.5	31.70	29.911		
6,900.0	6,866.6	6,980.5	6,869.6	18.1	23.5	-75.15	622.6	-657.6	948.2	916.4	31.78	29.837		
6,935.0	6,901.6	7,015.5	6,904.6	18.2	23.5	-75.15	622.6	-657.6	948.2	916.4	31.82	29.798		
7,000.0	6,966.6	7,084.3	6,973.4	18.2	23.6	-75.17	622.3	-657.7	948.2	916.3	31.87	29.748		
7,030.0	6,996.6	7,121.4	7,010.4	18.2	23.6	-75.32	619.9	-658.0	947.9	916.1	31.86	29.752		
7,100.0	7,066.6	7,205.8	7,093.5	18.2	23.6	-76.19	605.6	-660.0	946.6	914.8	31.79	29.780		
7,125.0	7,091.6	7,234.6	7,121.3	18.3	23.7	-76.65	597.9	-661.1	945.9	914.2	31.75	29.794		
7,200.0	7,166.6	7,315.7	7,196.9	18.3	23.7	-78.41	569.1	-665.2	943.7	912.1	31.63	29.837		
7,220.0	7,186.6	7,335.8	7,214.9	18.3	23.7	-78.94	560.4	-666.4	943.2	911.6	31.60	29.849		
7,300.0	7,266.6	7,409.1	7,277.8	18.4	23.8	-81.22	523.3	-671.7	941.6	910.1	31.49	29.906		
7,315.0	7,281.6	7,421.6	7,288.1	18.4	23.8	-81.66	516.2	-672.7	941.5	910.1	31.47	29.920		
7,325.1	7,291.7	7,429.8	7,294.7	18.4	23.8	-81.95	511.4	-673.3	941.5	910.1	31.46	29.930		
7,400.0	7,366.6	7,485.5	7,337.8	18.4	23.8	-84.09	476.5	-678.3	942.7	911.3	31.38	30.037		

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 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		Rule Assigned:									
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)	Between Ellipses (usft)	Separation (usft)	Factor			
7,410.0	7,376.6	7,492.3	7,342.8	18.4	23.8	-84.37	472.0	-678.9	943.1	911.7	31.38	30.057			
7,500.0	7,466.6	7,550.0	7,383.2	18.5	23.9	-86.87	431.2	-684.7	948.9	917.7	31.29	30.326			
7,505.0	7,471.6	7,550.0	7,383.2	18.5	23.9	-86.87	431.2	-684.7	949.4	918.1	31.31	30.328			
7,600.0	7,566.6	7,600.0	7,414.6	18.5	23.9	-89.21	392.7	-690.1	961.7	930.5	31.22	30.803			
7,695.0	7,661.6	7,635.4	7,434.8	18.6	23.9	-90.94	363.9	-694.2	980.5	949.4	31.16	31.464			
7,700.0	7,666.6	7,637.2	7,435.8	18.6	23.9	-91.03	362.4	-694.4	981.7	950.6	31.16	31.507			
7,790.0	7,756.6	7,667.3	7,451.4	18.6	24.0	-92.55	336.9	-698.0	1,006.2	975.2	31.08	32.378			
7,800.0	7,766.6	7,670.3	7,452.9	18.7	24.0	-92.71	334.3	-698.4	1,009.3	978.3	31.07	32.488			
7,885.0	7,851.6	7,700.0	7,466.8	18.7	24.0	-94.24	308.4	-702.1	1,038.7	1,007.7	30.96	33.554			
7,900.0	7,866.6	7,700.0	7,466.8	18.7	24.0	-94.24	308.4	-702.1	1,044.4	1,013.4	30.96	33.735			
7,980.0	7,946.6	7,716.6	7,474.0	18.8	24.0	-95.11	293.5	-704.2	1,077.5	1,046.6	30.89	34.880			
8,000.0	7,966.6	7,720.9	7,475.8	18.8	24.0	-95.33	289.7	-704.7	1,086.5	1,055.6	30.87	35.190			
8,075.0	8,041.6	7,735.9	7,481.8	18.8	24.0	-96.12	276.1	-706.6	1,122.4	1,091.5	30.81	36.426			
8,100.0	8,066.6	7,750.0	7,487.2	18.8	24.0	-96.86	263.2	-708.5	1,135.2	1,104.4	30.76	36.907			
8,170.0	8,136.6	7,750.0	7,487.2	18.9	24.0	-96.86	263.2	-708.5	1,172.6	1,141.9	30.76	38.123			
8,200.0	8,166.6	7,750.0	7,487.2	18.9	24.0	-96.86	263.2	-708.5	1,189.6	1,158.8	30.76	38.673			
8,265.0	8,231.6	7,767.1	7,493.2	18.9	24.0	-97.77	247.3	-710.7	1,227.7	1,197.0	30.71	39.976			
8,300.0	8,266.6	7,772.0	7,494.8	19.0	24.0	-98.03	242.8	-711.3	1,249.2	1,218.5	30.70	40.683			
8,360.0	8,326.6	7,779.8	7,497.3	19.0	24.1	-98.44	235.5	-712.4	1,287.2	1,256.5	30.70	41.926			
8,400.0	8,366.6	7,800.0	7,503.4	19.0	24.1	-99.51	216.4	-715.1	1,313.6	1,282.9	30.66	42.841			

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 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)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	2.8	2.8	3.0	3.0	-158.51	-151.1	-59.5	162.4				
95.0	95.0	97.8	97.8	3.0	3.0	-158.51	-151.1	-59.5	162.4	156.4	6.02	26.984	
100.0	100.0	102.8	102.8	3.0	3.0	-158.51	-151.1	-59.5	162.4	156.4	6.02	26.971	
190.0	190.0	192.8	192.8	3.1	3.0	-158.51	-151.1	-59.5	162.4	156.3	6.13	26.478	
200.0	200.0	202.8	202.8	3.1	3.0	-158.51	-151.1	-59.5	162.4	156.2	6.15	26.400	
285.0	285.0	287.8	287.8	3.3	3.0	-158.51	-151.1	-59.5	162.4	156.1	6.26	25.931	
300.0	300.0	302.8	302.8	3.3	3.0	-158.51	-151.1	-59.5	162.4	156.1	6.29	25.838	
380.0	380.0	382.8	382.8	3.4	3.0	-158.51	-151.1	-59.5	162.4	156.0	6.39	25.401	
400.0	400.0	402.8	402.8	3.4	3.0	-158.51	-151.1	-59.5	162.4	156.0	6.42	25.284	
475.0	475.0	477.8	477.8	3.5	3.0	-158.51	-151.1	-59.5	162.4	155.9	6.53	24.880	
500.0	500.0	502.8	502.8	3.5	3.1	-158.51	-151.1	-59.5	162.4	155.8	6.56	24.739	
570.0	570.0	572.8	572.8	3.6	3.1	-158.51	-151.1	-59.5	162.4	155.7	6.66	24.367	
600.0	600.0	602.8	602.8	3.6	3.1	-158.51	-151.1	-59.5	162.4	155.7	6.71	24.203	
665.0	665.0	667.8	667.8	3.7	3.1	-158.51	-151.1	-59.5	162.4	155.6	6.81	23.862	
700.0	700.0	702.8	702.8	3.8	3.1	-158.51	-151.1	-59.5	162.4	155.5	6.86	23.676	
760.0	760.0	762.8	762.8	3.8	3.1	-158.51	-151.1	-59.5	162.4	155.4	6.95	23.367	
800.0	800.0	802.8	802.8	3.9	3.2	-158.51	-151.1	-59.5	162.4	155.4	7.01	23.159	
855.0	855.0	857.8	857.8	4.0	3.2	-158.51	-151.1	-59.5	162.4	155.3	7.10	22.881	
900.0	900.0	902.8	902.8	4.0	3.2	-158.51	-151.1	-59.5	162.4	155.2	7.17	22.652	
950.0	950.0	952.8	952.8	4.1	3.2	-158.51	-151.1	-59.5	162.4	155.1	7.25	22.404	
1,000.0	1,000.0	1,002.8	1,002.8	4.1	3.2	-158.51	-151.1	-59.5	162.4	155.1	7.33	22.155	
1,045.0	1,045.0	1,047.8	1,047.8	4.2	3.3	-158.51	-151.1	-59.5	162.4	155.0	7.40	21.937	
1,100.0	1,100.0	1,102.8	1,102.8	4.2	3.3	-158.51	-151.1	-59.5	162.4	154.9	7.49	21.670	
1,140.0	1,140.0	1,142.8	1,142.8	4.3	3.3	-158.51	-151.1	-59.5	162.4	154.8	7.56	21.480	
1,200.0	1,200.0	1,202.8	1,202.8	4.4	3.4	-158.51	-151.1	-59.5	162.4	154.7	7.66	21.196	
1,235.0	1,235.0	1,237.8	1,237.8	4.4	3.4	-158.51	-151.1	-59.5	162.4	154.7	7.72	21.034	
1,300.0	1,300.0	1,302.8	1,302.8	4.5	3.4	-158.51	-151.1	-59.5	162.4	154.6	7.83	20.734	
1,330.0	1,330.0	1,332.8	1,332.8	4.5	3.4	-158.51	-151.1	-59.5	162.4	154.5	7.88	20.598	
1,400.0	1,400.0	1,402.8	1,402.8	4.6	3.5	-158.51	-151.1	-59.5	162.4	154.4	8.01	20.283	
1,425.0	1,425.0	1,427.8	1,427.8	4.6	3.5	-158.51	-151.1	-59.5	162.4	154.3	8.05	20.173	
1,500.0	1,500.0	1,502.8	1,502.8	4.7	3.5	-158.51	-151.1	-59.5	162.4	154.2	8.18	19.845 CC, ES	
1,520.0	1,520.0	1,522.8	1,522.8	4.8	3.6	167.20	-151.1	-59.5	162.5	154.2	8.23	19.741	
1,600.0	1,600.0	1,602.8	1,602.8	4.9	3.6	167.33	-151.1	-59.5	164.1	155.7	8.44	19.435	
1,615.0	1,615.0	1,617.8	1,617.8	4.9	3.6	167.37	-151.1	-59.5	164.6	156.2	8.49	19.389	
1,700.0	1,699.8	1,702.6	1,702.6	5.1	3.7	167.69	-151.1	-59.5	169.2	160.4	8.77	19.289	
1,710.0	1,709.8	1,712.6	1,712.6	5.2	3.7	167.74	-151.1	-59.5	169.9	161.1	8.81	19.295	
1,800.0	1,799.5	1,802.3	1,802.3	5.4	3.8	168.26	-151.1	-59.5	177.7	168.6	9.12	19.496	
1,805.0	1,804.4	1,807.2	1,807.2	5.4	3.8	168.29	-151.1	-59.5	178.2	169.1	9.13	19.515	
1,900.0	1,898.7	1,901.5	1,901.5	5.7	3.9	168.96	-151.1	-59.5	189.7	180.2	9.48	20.009	
1,950.1	1,948.2	1,951.0	1,951.0	5.8	3.9	169.34	-151.1	-59.5	197.0	187.4	9.60	20.516	
1,995.0	1,992.6	1,995.4	1,995.4	5.9	3.9	169.71	-151.1	-59.5	203.9	194.2	9.71	20.999	
2,000.0	1,997.5	2,000.4	2,000.4	5.9	3.9	169.75	-151.1	-59.5	204.6	194.9	9.72	21.051	
2,090.0	2,086.4	2,095.3	2,095.3	6.1	4.2	170.68	-149.5	-59.7	217.3	207.1	10.14	21.418	
2,100.0	2,096.3	2,105.8	2,105.8	6.1	4.2	170.80	-149.2	-59.8	218.5	208.3	10.19	21.435	
2,185.0	2,180.3	2,196.0	2,195.9	6.4	4.5	172.04	-144.5	-60.5	228.0	217.4	10.67	21.379	
2,200.0	2,195.1	2,212.0	2,211.8	6.4	4.5	172.29	-143.3	-60.7	229.5	218.7	10.75	21.349	
2,280.0	2,274.1	2,297.1	2,296.6	6.7	4.8	173.78	-135.9	-61.8	236.2	225.0	11.20	21.083	
2,300.0	2,293.8	2,318.4	2,317.7	6.7	4.9	174.19	-133.6	-62.1	237.6	226.3	11.32	20.994	
2,375.0	2,367.9	2,398.3	2,397.0	7.0	5.1	175.91	-123.8	-63.6	241.9	230.1	11.75	20.591	
2,400.0	2,392.6	2,424.9	2,423.3	7.0	5.2	176.55	-120.0	-64.1	243.0	231.1	11.89	20.437	
2,470.0	2,461.7	2,499.3	2,496.7	7.3	5.5	178.48	-108.2	-65.9	245.3	233.1	12.29	19.958	

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #521H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program: Reference		0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7437-r.5 MWD+IFR1+MS						Rule Assigned:		Offset Well Error: 3.0 usft				
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	2,491.4	2,531.1	2,528.1	7.4	5.6	179.38	-102.5	-66.7	246.0	233.6	12.42	19.803		
2,565.0	2,555.6	2,596.8	2,592.5	7.6	5.7	-178.65	-90.2	-68.6	247.1	234.4	12.71	19.449		
2,600.0	2,590.1	2,631.5	2,626.6	7.7	5.8	-177.61	-83.7	-69.6	247.8	234.9	12.88	19.232		
2,660.0	2,649.4	2,690.9	2,685.0	7.9	6.0	-175.85	-72.4	-71.2	249.2	236.0	13.20	18.880		
2,700.0	2,688.9	2,730.6	2,723.9	8.1	6.1	-174.68	-65.0	-72.3	250.2	236.8	13.40	18.667		
2,755.0	2,743.2	2,785.1	2,777.4	8.2	6.3	-173.10	-54.7	-73.9	251.8	238.1	13.69	18.399		
2,800.0	2,787.7	2,829.7	2,821.2	8.4	6.5	-171.82	-46.2	-75.1	253.3	239.4	13.91	18.202		
2,850.0	2,837.1	2,879.3	2,869.9	8.6	6.6	-170.41	-36.9	-76.5	255.0	240.9	14.17	18.004		
2,900.0	2,886.5	2,928.9	2,918.6	8.8	6.8	-169.03	-27.5	-77.9	257.0	242.5	14.41	17.829		
2,945.0	2,930.9	2,973.5	2,962.3	8.9	7.0	-167.80	-19.1	-79.2	258.8	244.2	14.63	17.689		
3,000.0	2,985.2	3,028.0	3,015.9	9.2	7.2	-166.32	-8.8	-80.7	261.3	246.4	14.89	17.541		
3,040.0	3,024.7	3,067.7	3,054.8	9.3	7.3	-165.26	-1.3	-81.8	263.1	248.0	15.08	17.447		
3,100.0	3,084.0	3,127.2	3,113.2	9.5	7.5	-163.70	9.9	-83.5	266.1	250.8	15.36	17.328		
3,135.0	3,118.6	3,161.9	3,147.3	9.7	7.7	-162.81	16.4	-84.5	267.9	252.4	15.51	17.270		
3,200.0	3,182.8	3,226.3	3,210.5	9.9	7.9	-161.19	28.6	-86.3	271.5	255.7	15.80	17.184		
3,230.0	3,212.4	3,256.1	3,239.7	10.0	8.0	-160.45	34.2	-87.1	273.2	257.3	15.93	17.153		
3,300.0	3,281.5	3,325.5	3,307.8	10.3	8.3	-158.77	47.3	-89.1	277.4	261.2	16.22	17.099		
3,325.0	3,306.2	3,350.3	3,332.2	10.4	8.4	-158.18	52.0	-89.8	279.0	262.7	16.33	17.087		
3,400.0	3,380.3	3,424.6	3,405.2	10.7	8.7	-156.46	66.0	-91.9	283.8	267.2	16.63	17.067		
3,420.0	3,400.0	3,444.4	3,424.6	10.8	8.8	-156.01	69.8	-92.4	285.1	268.4	16.71	17.066		
3,500.0	3,479.1	3,523.8	3,502.5	11.1	9.1	-154.25	84.8	-94.7	290.6	273.6	17.02	17.079		
3,515.0	3,493.9	3,538.6	3,517.1	11.2	9.2	-153.92	87.6	-95.1	291.7	274.6	17.07	17.084		
3,600.0	3,577.8	3,622.9	3,599.8	11.5	9.5	-152.14	103.5	-97.5	297.9	280.5	17.39	17.130		
3,610.0	3,587.7	3,632.8	3,609.5	11.5	9.6	-151.94	105.3	-97.7	298.6	281.2	17.43	17.137		
3,700.0	3,676.6	3,722.0	3,697.1	11.9	9.9	-150.14	122.2	-100.3	305.5	287.8	17.75	17.213		
3,705.0	3,681.5	3,727.0	3,702.0	11.9	9.9	-150.04	123.1	-100.4	305.9	288.2	17.77	17.218		
3,800.0	3,775.4	3,821.2	3,794.5	12.3	10.3	-148.23	140.9	-103.0	313.5	295.4	18.10	17.324		
3,895.0	3,869.2	3,915.4	3,886.9	12.7	10.7	-146.51	158.7	-105.7	321.4	303.0	18.42	17.450		
3,900.0	3,874.1	3,920.3	3,891.8	12.7	10.8	-146.42	159.6	-105.8	321.9	303.4	18.44	17.457		
3,990.0	3,963.0	4,009.6	3,979.4	13.1	11.1	-144.87	176.4	-108.4	329.6	310.9	18.74	17.593		
4,000.0	3,972.9	4,019.5	3,989.1	13.1	11.2	-144.70	178.3	-108.6	330.5	311.7	18.77	17.609		
4,085.0	4,056.9	4,103.8	4,071.8	13.5	11.5	-143.31	194.2	-111.0	338.0	319.0	19.05	17.749		
4,100.0	4,071.7	4,118.6	4,086.4	13.6	11.6	-143.07	197.0	-111.4	339.4	320.3	19.09	17.775		
4,180.0	4,150.7	4,197.9	4,164.3	13.9	12.0	-141.83	212.0	-113.7	346.7	327.4	19.35	17.917		
4,200.0	4,170.4	4,217.8	4,183.7	14.0	12.0	-141.53	215.7	-114.2	348.6	329.2	19.42	17.953		
4,210.2	4,180.5	4,227.9	4,193.7	14.0	12.1	-141.37	217.7	-114.5	349.5	330.1	19.44	17.977		
4,275.0	4,244.6	4,292.1	4,256.7	14.3	12.4	-140.42	229.8	-116.3	355.3	335.7	19.64	18.095		
4,300.0	4,269.3	4,316.9	4,281.1	14.4	12.5	-140.04	234.5	-117.0	357.4	337.7	19.71	18.136		
4,370.0	4,338.7	4,386.3	4,349.2	14.7	12.8	-138.94	247.6	-119.0	363.0	343.1	19.90	18.241		
4,400.0	4,368.4	4,416.1	4,378.4	14.8	12.9	-138.45	253.2	-119.8	365.3	345.3	19.98	18.281		
4,465.0	4,433.0	4,480.5	4,441.7	15.0	13.2	-137.36	265.3	-121.6	369.8	349.7	20.14	18.364		
4,500.0	4,467.8	4,515.2	4,475.7	15.2	13.3	-136.75	271.9	-122.6	372.1	351.9	20.22	18.404		
4,560.0	4,527.5	4,574.6	4,534.1	15.4	13.6	-135.66	283.1	-124.3	375.8	355.4	20.35	18.470		
4,600.0	4,567.3	4,614.3	4,572.9	15.6	13.8	-134.92	290.6	-125.4	378.1	357.6	20.43	18.510		
4,655.0	4,622.1	4,668.7	4,626.4	15.8	14.0	-133.86	300.9	-126.9	381.0	360.5	20.52	18.564		
4,700.0	4,667.0	4,713.2	4,670.1	15.9	14.2	-132.96	309.3	-128.2	383.2	362.6	20.60	18.602		
4,750.0	4,716.9	4,762.7	4,718.6	16.1	14.4	-131.93	318.6	-129.6	385.5	364.9	20.68	18.646		
4,800.0	4,766.8	4,812.1	4,767.1	16.3	14.7	-130.86	327.9	-130.9	387.7	367.0	20.75	18.684		
4,845.0	4,811.7	4,856.5	4,810.7	16.4	14.9	-129.88	336.3	-132.2	389.5	368.7	20.81	18.720		
4,900.0	4,866.7	4,910.8	4,864.0	16.6	15.1	-128.63	346.5	-133.7	391.6	370.7	20.88	18.756		
4,940.0	4,906.6	4,950.2	4,902.7	16.7	15.3	-127.69	354.0	-134.8	393.1	372.1	20.92	18.785		

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 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)	Minimum Separation (usft)	Separation Factor	
5,000.0	4,966.6	5,009.3	4,960.7	16.9	15.5	-126.24	365.1	-136.5	395.1	374.1	20.99	18.820	
5,035.0	5,001.6	5,043.7	4,994.5	17.0	15.7	-125.37	371.6	-137.5	396.3	375.3	21.03	18.846	
5,100.0	5,066.6	5,107.6	5,057.2	17.1	16.0	-123.70	383.7	-139.3	398.4	377.3	21.10	18.884	
5,110.4	5,077.0	5,117.8	5,067.2	17.1	16.0	-89.13	385.6	-139.5	398.7	377.6	21.10	18.898	
5,130.0	5,096.6	5,137.0	5,086.1	17.1	16.1	-88.61	389.3	-140.1	399.3	378.2	21.11	18.920	
5,200.0	5,166.6	5,205.7	5,153.6	17.2	16.4	-86.77	402.2	-142.0	401.9	380.7	21.16	18.994	
5,225.0	5,191.6	5,230.3	5,177.7	17.2	16.5	-86.12	406.9	-142.7	402.9	381.7	21.19	19.015	
5,300.0	5,266.6	5,303.9	5,249.9	17.2	16.9	-84.18	420.8	-144.8	406.2	384.9	21.30	19.069	
5,320.0	5,286.6	5,323.5	5,269.2	17.2	16.9	-83.67	424.5	-145.3	407.2	385.9	21.34	19.081	
5,400.0	5,366.6	5,402.1	5,346.3	17.3	17.3	-81.65	439.3	-147.6	411.5	389.9	21.52	19.119	
5,415.0	5,381.6	5,416.8	5,360.7	17.3	17.4	-81.27	442.1	-148.0	412.3	390.8	21.56	19.124	
5,500.0	5,466.6	5,500.2	5,442.6	17.3	17.7	-79.18	457.8	-150.3	417.5	395.7	21.81	19.142	
5,510.0	5,476.6	5,510.0	5,452.3	17.4	17.8	-78.94	459.7	-150.6	418.1	396.3	21.84	19.143	
5,600.0	5,566.6	5,598.4	5,539.0	17.4	18.2	-76.79	476.3	-153.1	424.3	402.1	22.17	19.141	
5,605.0	5,571.6	5,603.3	5,543.8	17.4	18.2	-76.67	477.3	-153.2	424.6	402.4	22.19	19.140	
5,700.0	5,666.6	5,696.6	5,635.4	17.5	18.6	-74.47	494.9	-155.8	431.8	409.2	22.58	19.120	
5,795.0	5,761.6	5,789.8	5,726.9	17.5	19.1	-72.34	512.5	-158.5	439.6	416.6	23.03	19.085	
5,800.0	5,766.6	5,794.7	5,731.7	17.5	19.1	-72.23	513.4	-158.6	440.0	417.0	23.06	19.082	
5,890.0	5,856.6	5,883.1	5,818.4	17.6	19.5	-70.29	530.1	-161.1	448.0	424.5	23.53	19.044	
5,900.0	5,866.6	5,893.0	5,828.2	17.6	19.5	-70.07	531.9	-161.4	448.9	425.3	23.58	19.040	
5,985.0	5,951.6	5,980.0	5,913.7	17.6	19.9	-68.31	547.7	-163.7	456.6	432.6	24.06	18.979	
6,000.0	5,966.6	5,995.4	5,928.9	17.6	20.0	-68.02	550.3	-164.1	458.0	433.8	24.15	18.966	
6,080.0	6,046.6	6,077.8	6,010.1	17.7	20.3	-66.57	563.8	-166.1	464.9	440.3	24.61	18.893	
6,100.0	6,066.6	6,098.4	6,030.5	17.7	20.4	-66.23	567.0	-166.6	466.6	441.8	24.72	18.872	
6,175.0	6,141.6	6,176.1	6,107.3	17.7	20.8	-65.05	578.4	-168.3	472.6	447.5	25.15	18.793	
6,200.0	6,166.6	6,202.0	6,133.0	17.7	20.9	-64.68	582.0	-168.8	474.6	449.3	25.29	18.765	
6,270.0	6,236.6	6,274.9	6,205.2	17.8	21.2	-63.73	591.4	-170.2	479.8	454.1	25.68	18.684	
6,300.0	6,266.6	6,306.1	6,236.3	17.8	21.3	-63.36	595.1	-170.8	481.9	456.0	25.84	18.647	
6,365.0	6,331.6	6,374.1	6,303.8	17.8	21.6	-62.62	602.7	-171.9	486.2	460.0	26.18	18.566	
6,400.0	6,366.6	6,410.7	6,340.2	17.8	21.7	-62.26	606.5	-172.5	488.3	461.9	26.37	18.521	
6,460.0	6,426.6	6,473.7	6,402.9	17.9	22.0	-61.69	612.4	-173.4	491.7	465.1	26.66	18.442	
6,500.0	6,466.6	6,515.7	6,444.7	17.9	22.2	-61.35	616.0	-173.9	493.8	466.9	26.86	18.387	
6,555.0	6,521.6	6,573.6	6,502.4	17.9	22.4	-60.94	620.5	-174.6	496.4	469.3	27.11	18.312	
6,600.0	6,566.6	6,621.0	6,549.7	18.0	22.5	-60.64	623.7	-175.1	498.3	471.0	27.31	18.248	
6,650.0	6,616.6	6,673.7	6,602.4	18.0	22.7	-60.36	626.8	-175.5	500.1	472.6	27.51	18.177	
6,700.0	6,666.6	6,726.5	6,655.1	18.0	22.9	-60.12	629.4	-175.9	501.7	474.0	27.71	18.105	
6,745.0	6,711.6	6,774.1	6,702.6	18.0	23.1	-59.94	631.4	-176.2	502.8	475.0	27.87	18.040	
6,800.0	6,766.6	6,832.2	6,760.8	18.1	23.2	-59.77	633.3	-176.5	504.0	475.9	28.06	17.960	
6,840.0	6,806.6	6,874.6	6,803.1	18.1	23.4	-59.68	634.3	-176.6	504.6	476.4	28.18	17.902	
6,900.0	6,866.6	6,938.1	6,866.6	18.1	23.5	-59.60	635.2	-176.8	505.1	476.8	28.33	17.831	
6,935.0	6,901.6	6,975.1	6,903.6	18.2	23.5	-59.58	635.4	-176.8	505.2	476.8	28.39	17.793	
7,000.0	6,966.6	7,040.9	6,969.4	18.2	23.6	-59.58	635.4	-176.8	505.2	476.8	28.49	17.734	
7,030.0	6,996.6	7,070.9	6,999.4	18.2	23.6	-59.58	635.4	-176.8	505.2	476.7	28.53	17.706	
7,100.0	7,066.6	7,140.9	7,069.4	18.2	23.6	-59.58	635.4	-176.8	505.2	476.6	28.64	17.643	
7,125.0	7,091.6	7,165.9	7,094.4	18.3	23.6	-59.58	635.4	-176.8	505.2	476.6	28.67	17.620	
7,200.0	7,166.6	7,240.9	7,169.4	18.3	23.7	-59.58	635.4	-176.8	505.2	476.5	28.78	17.553	
7,220.0	7,186.6	7,260.9	7,189.4	18.3	23.7	-59.58	635.4	-176.8	505.2	476.4	28.81	17.535	
7,300.0	7,266.6	7,340.9	7,269.4	18.4	23.7	-59.58	635.4	-176.8	505.2	476.3	28.93	17.463	
7,315.0	7,281.6	7,355.9	7,284.4	18.4	23.7	-59.58	635.4	-176.8	505.2	476.3	28.95	17.450	
7,400.0	7,366.6	7,443.6	7,372.1	18.4	23.8	-59.59	635.4	-176.8	505.2	476.2	29.05	17.393	
7,410.0	7,376.6	7,461.4	7,389.9	18.4	23.8	-59.63	634.9	-176.8	505.1	476.1	29.01	17.413	

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 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)			
7,500.0	7,466.6	7,616.1	7,541.7	18.5	23.9	-62.37	607.8	-177.0	497.3	469.1	28.21	17.627	
7,505.0	7,471.6	7,624.1	7,549.3	18.5	23.9	-62.63	605.3	-177.1	496.6	468.4	28.16	17.638	
7,600.0	7,566.6	7,761.1	7,672.7	18.5	24.1	-69.08	546.4	-177.6	478.5	451.5	27.05	17.691	
7,695.0	7,661.6	7,866.7	7,756.2	18.6	24.2	-76.80	482.1	-178.1	458.2	431.9	26.30	17.422	
7,700.0	7,666.6	7,871.4	7,759.6	18.6	24.2	-77.21	478.8	-178.2	457.2	430.9	26.27	17.402	
7,790.0	7,756.6	7,945.4	7,810.0	18.6	24.3	-84.12	424.7	-178.6	442.7	416.7	25.99	17.034	
7,800.0	7,766.6	7,952.5	7,814.4	18.7	24.3	-84.83	419.2	-178.7	441.7	415.7	25.98	16.999	
7,871.2	7,837.9	7,996.9	7,840.7	18.7	24.3	-89.50	383.4	-179.0	437.9	411.9	26.00	16.843	
7,885.0	7,851.6	8,004.4	7,844.9	18.7	24.3	-90.32	377.1	-179.0	438.1	412.0	26.02	16.836	
7,900.0	7,866.6	8,012.3	7,849.2	18.7	24.3	-91.19	370.5	-179.1	438.6	412.5	26.05	16.838	
7,980.0	7,946.6	8,050.0	7,868.4	18.8	24.4	-95.41	338.1	-179.4	447.6	421.4	26.26	17.048	
8,000.0	7,966.6	8,057.4	7,871.9	18.8	24.4	-96.26	331.5	-179.4	451.6	425.3	26.32	17.159	
8,075.0	8,041.6	8,084.3	7,884.0	18.8	24.4	-99.34	307.5	-179.6	472.5	445.9	26.59	17.772	
8,100.0	8,066.6	8,092.3	7,887.3	18.8	24.4	-100.25	300.3	-179.7	481.5	454.8	26.68	18.046	
8,170.0	8,136.6	8,112.2	7,895.2	18.9	24.4	-102.53	282.1	-179.9	511.5	484.6	26.94	18.986	
8,200.0	8,166.6	8,119.8	7,898.1	18.9	24.4	-103.40	275.0	-179.9	526.4	499.4	27.05	19.460	
8,265.0	8,231.6	8,134.7	7,903.5	18.9	24.4	-105.11	261.1	-180.0	562.4	535.1	27.28	20.614	
8,300.0	8,266.6	8,150.0	7,908.6	19.0	24.4	-106.84	246.7	-180.2	583.7	556.2	27.48	21.240	
8,360.0	8,326.6	8,150.0	7,908.6	19.0	24.4	-106.84	246.7	-180.2	622.5	595.0	27.57	22.577	
8,400.0	8,366.6	8,150.0	7,908.6	19.0	24.4	-106.84	246.7	-180.2	650.2	622.6	27.66	23.512	
8,417.4	8,384.0	8,163.0	7,912.6	19.0	24.4	-108.31	234.3	-180.3	662.5	634.8	27.66	23.948	
8,450.0	8,416.6	8,168.5	7,914.3	19.0	24.4	67.43	229.0	-180.3	685.9	658.2	27.76	24.712	
8,455.0	8,421.6	8,169.4	7,914.5	19.0	24.4	66.85	228.1	-180.3	689.5	661.8	27.77	24.829	
8,500.0	8,466.3	8,178.2	7,917.0	19.1	24.4	61.74	219.8	-180.4	722.1	694.2	27.90	25.882	
8,550.0	8,515.4	8,200.0	7,922.6	19.1	24.5	55.44	198.7	-180.6	758.5	730.4	28.11	26.980	
8,600.0	8,563.5	8,200.0	7,922.6	19.2	24.5	51.38	198.7	-180.6	794.0	765.8	28.19	28.167	
8,645.0	8,605.7	8,200.0	7,922.6	19.2	24.5	47.97	198.7	-180.6	825.7	797.5	28.29	29.188	
8,650.0	8,610.3	8,200.0	7,922.6	19.2	24.5	47.61	198.7	-180.6	829.2	800.9	28.30	29.298	
8,700.0	8,655.3	8,226.9	7,928.4	19.3	24.5	42.90	172.4	-180.8	862.9	834.4	28.53	30.250	
8,740.0	8,689.8	8,250.0	7,932.3	19.3	24.5	39.63	149.7	-181.0	889.3	860.6	28.71	30.976	
8,750.0	8,698.3	8,250.0	7,932.3	19.3	24.5	39.11	149.7	-181.0	895.7	866.9	28.74	31.166	
8,800.0	8,738.8	8,250.0	7,932.3	19.4	24.5	36.67	149.7	-181.0	926.8	897.9	28.92	32.050	
8,835.0	8,765.6	8,266.2	7,934.6	19.4	24.5	34.66	133.6	-181.2	947.6	918.5	29.09	32.578	
8,850.0	8,776.7	8,270.8	7,935.1	19.5	24.5	33.94	129.0	-181.2	956.2	927.1	29.16	32.796	
8,900.0	8,811.6	8,300.0	7,937.8	19.5	24.5	31.47	100.0	-181.4	984.2	954.7	29.42	33.454	
8,930.0	8,830.9	8,300.0	7,937.8	19.5	24.5	30.54	100.0	-181.4	999.6	970.0	29.58	33.799	
8,950.0	8,843.2	8,300.0	7,937.8	19.6	24.5	29.96	100.0	-181.4	1,009.6	980.0	29.69	34.005	
9,000.0	8,871.3	8,318.8	7,938.7	19.6	24.5	28.34	81.2	-181.6	1,033.3	1,003.3	29.98	34.468	
9,025.0	8,884.0	8,336.0	7,939.0	19.6	24.5	27.53	64.0	-181.8	1,044.4	1,014.3	30.11	34.681	
9,050.0	8,895.7	8,336.0	7,939.0	19.7	24.5	27.01	64.0	-181.8	1,054.7	1,024.4	30.29	34.823	
9,100.0	8,916.2	8,379.9	7,939.1	19.7	24.5	25.66	20.1	-182.1	1,073.3	1,042.8	30.54	35.146	
9,120.0	8,923.3	8,398.6	7,939.2	19.7	24.5	25.21	1.4	-182.3	1,079.7	1,049.1	30.64	35.241	
9,150.0	8,932.7	8,427.2	7,939.2	19.8	24.5	24.63	-27.2	-182.6	1,088.2	1,057.4	30.80	35.335	
9,200.0	8,945.0	8,475.6	7,939.4	19.8	24.5	23.90	-75.6	-183.0	1,099.4	1,068.3	31.07	35.386	
9,215.0	8,947.9	8,490.4	7,939.4	19.8	24.5	23.74	-90.4	-183.1	1,102.0	1,070.8	31.15	35.375	
9,250.0	8,953.0	8,525.0	7,939.5	19.8	24.5	23.44	-125.0	-183.4	1,106.6	1,075.3	31.35	35.299	
9,300.0	8,956.7	8,574.9	7,939.6	19.9	24.5	23.24	-174.8	-183.8	1,109.9	1,078.3	31.64	35.079	
9,310.0	8,957.0	8,584.9	7,939.7	19.9	24.5	23.23	-184.8	-183.9	1,110.1	1,078.4	31.69	35.032	
9,316.8	8,957.0	8,591.6	7,939.7	19.9	24.5	23.23	-191.6	-184.0	1,110.1	1,078.4	31.72	34.998	
9,400.0	8,957.1	8,674.9	7,939.9	19.9	24.5	23.23	-274.8	-184.7	1,110.0	1,077.8	32.15	34.523	
9,405.0	8,957.1	8,679.9	7,939.9	19.9	24.5	23.23	-279.8	-184.7	1,110.0	1,077.8	32.18	34.492	

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 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	
9,500.0	8,957.2	8,774.9	7,940.2	20.0	24.5	23.23	-374.8	-185.6	1,109.8	1,077.1	32.73	33.903		
9,595.0	8,957.3	8,869.9	7,940.4	20.1	24.5	23.23	-469.8	-186.4	1,109.7	1,076.3	33.35	33.276		
9,600.0	8,957.3	8,874.9	7,940.4	20.1	24.5	23.23	-474.8	-186.4	1,109.7	1,076.3	33.38	33.243		
9,690.0	8,957.4	8,964.9	7,940.7	20.1	24.6	23.24	-564.8	-187.2	1,109.5	1,075.5	34.01	32.620		
9,700.0	8,957.4	8,974.9	7,940.7	20.2	24.6	23.24	-574.8	-187.3	1,109.5	1,075.4	34.09	32.551		
9,785.0	8,957.5	9,059.9	7,940.9	20.2	24.6	23.24	-659.8	-188.0	1,109.4	1,074.7	34.73	31.943		
9,800.0	8,957.6	9,074.9	7,941.0	20.3	24.6	23.24	-674.8	-188.2	1,109.4	1,074.5	34.85	31.837		
9,880.0	8,957.6	9,154.9	7,941.2	20.4	24.6	23.24	-754.8	-188.9	1,109.3	1,073.8	35.49	31.252		
9,900.0	8,957.7	9,174.9	7,941.2	20.4	24.6	23.24	-774.8	-189.0	1,109.2	1,073.6	35.66	31.108		
9,975.0	8,957.8	9,249.9	7,941.5	20.5	24.6	23.24	-849.8	-189.7	1,109.1	1,072.8	36.30	30.553		
10,000.0	8,957.8	9,274.9	7,941.5	20.5	24.6	23.24	-874.8	-189.9	1,109.1	1,072.6	36.52	30.370		
10,070.0	8,957.9	9,344.9	7,941.7	20.6	24.6	23.24	-944.8	-190.5	1,109.0	1,071.8	37.15	29.850		
10,100.0	8,957.9	9,374.9	7,941.8	20.7	24.7	23.24	-974.8	-190.8	1,108.9	1,071.5	37.42	29.631		
10,165.0	8,958.0	9,439.9	7,942.0	20.8	24.7	23.25	-1,039.8	-191.3	1,108.8	1,070.8	38.04	29.150		
10,200.0	8,958.0	9,474.9	7,942.1	20.9	24.7	23.25	-1,074.8	-191.6	1,108.8	1,070.4	38.37	28.895		
10,260.0	8,958.1	9,534.9	7,942.2	21.0	24.7	23.25	-1,134.8	-192.2	1,108.7	1,069.7	38.96	28.455		
10,300.0	8,958.1	9,574.9	7,942.3	21.1	24.7	23.25	-1,174.8	-192.5	1,108.6	1,069.3	39.36	28.167		
10,355.0	8,958.2	9,629.9	7,942.5	21.2	24.7	23.25	-1,229.8	-193.0	1,108.5	1,068.6	39.92	27.769		
10,400.0	8,958.2	9,674.9	7,942.6	21.3	24.7	23.25	-1,274.8	-193.4	1,108.5	1,068.1	40.38	27.450		
10,450.0	8,958.3	9,724.9	7,942.7	21.4	24.8	23.25	-1,324.8	-193.8	1,108.4	1,067.5	40.91	27.094		
10,500.0	8,958.4	9,774.9	7,942.9	21.5	24.8	23.25	-1,374.8	-194.3	1,108.3	1,066.9	41.44	26.746		
10,545.0	8,958.4	9,819.9	7,943.0	21.7	24.8	23.25	-1,419.8	-194.6	1,108.3	1,066.3	41.93	26.433		
10,600.0	8,958.5	9,874.9	7,943.1	21.8	24.8	23.26	-1,474.8	-195.1	1,108.2	1,065.7	42.53	26.058		
10,640.0	8,958.5	9,914.9	7,943.2	22.0	24.8	23.26	-1,514.8	-195.5	1,108.1	1,065.2	42.97	25.787		
10,700.0	8,958.6	9,974.9	7,943.4	22.1	24.9	23.26	-1,574.8	-196.0	1,108.0	1,064.4	43.64	25.388		
10,735.0	8,958.6	10,009.9	7,943.5	22.3	24.9	23.26	-1,609.8	-196.3	1,108.0	1,063.9	44.04	25.158		
10,800.0	8,958.7	10,074.9	7,943.7	22.5	24.9	23.26	-1,674.8	-196.9	1,107.9	1,063.1	44.79	24.737		
10,830.0	8,958.7	10,104.9	7,943.7	22.6	24.9	23.26	-1,704.8	-197.1	1,107.8	1,062.7	45.13	24.545		
10,900.0	8,958.8	10,174.9	7,943.9	22.9	25.0	23.26	-1,774.8	-197.7	1,107.7	1,061.8	45.95	24.105		
10,925.0	8,958.8	10,199.9	7,944.0	23.0	25.0	23.26	-1,799.8	-197.9	1,107.7	1,061.4	46.25	23.950		
11,000.0	8,958.9	10,274.9	7,944.2	23.3	25.1	23.26	-1,874.8	-198.6	1,107.6	1,060.4	47.14	23.494		
11,020.0	8,958.9	10,294.9	7,944.3	23.4	25.1	23.27	-1,894.8	-198.8	1,107.6	1,060.2	47.39	23.373		
11,100.0	8,959.0	10,374.9	7,944.5	23.7	25.1	23.27	-1,974.8	-199.5	1,107.4	1,059.1	48.36	22.902		
11,115.0	8,959.1	10,389.9	7,944.5	23.8	25.1	23.27	-1,989.8	-199.6	1,107.4	1,058.9	48.54	22.815		
11,200.0	8,959.2	10,474.9	7,944.7	24.2	25.2	23.27	-2,074.8	-200.3	1,107.3	1,057.7	49.59	22.330		
11,210.0	8,959.2	10,484.9	7,944.8	24.2	25.2	23.27	-2,084.8	-200.4	1,107.3	1,057.6	49.71	22.274		
11,300.0	8,959.3	10,574.9	7,945.0	24.6	25.3	23.27	-2,174.8	-201.2	1,107.1	1,056.3	50.84	21.779		
11,305.0	8,959.3	10,579.9	7,945.0	24.7	25.4	23.27	-2,179.8	-201.2	1,107.1	1,056.2	50.90	21.751		
11,400.0	8,959.4	10,674.8	7,945.3	25.1	25.5	23.27	-2,274.8	-202.1	1,107.0	1,054.9	52.10	21.246		
11,495.0	8,959.5	10,769.8	7,945.5	25.6	25.7	23.28	-2,369.8	-202.9	1,106.8	1,053.5	53.32	20.759		
11,500.0	8,959.5	10,774.8	7,945.5	25.7	25.7	23.28	-2,374.8	-202.9	1,106.8	1,053.5	53.38	20.734		
11,590.0	8,959.6	10,864.8	7,945.8	26.2	25.9	23.28	-2,464.7	-203.7	1,106.7	1,052.2	54.55	20.288		
11,600.0	8,959.6	10,874.8	7,945.8	26.2	25.9	23.28	-2,474.7	-203.8	1,106.7	1,052.0	54.68	20.239		
11,685.0	8,959.7	10,959.8	7,946.0	26.7	26.1	23.28	-2,559.7	-204.5	1,106.6	1,050.8	55.79	19.833		
11,700.0	8,959.7	10,974.8	7,946.1	26.8	26.2	23.28	-2,574.7	-204.7	1,106.5	1,050.6	55.99	19.763		
11,780.0	8,959.8	11,054.8	7,946.3	27.2	26.5	23.28	-2,654.7	-205.4	1,106.4	1,049.4	57.05	19.395		
11,800.0	8,959.8	11,074.8	7,946.3	27.3	26.6	23.28	-2,674.7	-205.5	1,106.4	1,049.1	57.31	19.304		
11,875.0	8,959.9	11,149.8	7,946.5	27.8	26.9	23.28	-2,749.7	-206.2	1,106.3	1,048.0	58.31	18.971		
11,900.0	8,960.0	11,174.8	7,946.6	27.9	27.0	23.29	-2,774.7	-206.4	1,106.2	1,047.6	58.65	18.863		
11,970.0	8,960.0	11,244.8	7,946.8	28.3	27.3	23.29	-2,844.7	-207.0	1,106.1	1,046.6	59.59	18.563		
12,000.0	8,960.1	11,274.8	7,946.9	28.5	27.5	23.29	-2,874.7	-207.3	1,106.1	1,046.1	59.99	18.437		

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 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						Rule Assigned:					Offset Well Error: 3.0 usft		
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
12,065.0	8,960.1	11,339.8	7,947.1	28.9	27.8	23.29	-2,939.7	-207.8	1,106.0	1,045.1	60.87	18.169			
12,100.0	8,960.2	11,374.8	7,947.2	29.1	28.0	23.29	-2,974.7	-208.1	1,105.9	1,044.6	61.35	18.027			
12,160.0	8,960.2	11,434.8	7,947.3	29.5	28.4	23.29	-3,034.7	-208.7	1,105.9	1,043.7	62.17	17.789			
12,200.0	8,960.3	11,474.8	7,947.4	29.8	28.6	23.29	-3,074.7	-209.0	1,105.8	1,043.1	62.71	17.633			
12,255.0	8,960.4	11,529.8	7,947.6	30.1	28.9	23.29	-3,129.7	-209.5	1,105.7	1,042.2	63.47	17.421			
12,300.0	8,960.4	11,574.8	7,947.7	30.4	29.2	23.29	-3,174.7	-209.9	1,105.6	1,041.6	64.09	17.252			
12,350.0	8,960.5	11,624.8	7,947.8	30.7	29.5	23.30	-3,224.7	-210.3	1,105.6	1,040.8	64.78	17.067			
12,400.0	8,960.5	11,674.8	7,948.0	31.0	29.8	23.30	-3,274.7	-210.7	1,105.5	1,040.0	65.47	16.886			
12,445.0	8,960.6	11,719.8	7,948.1	31.3	30.1	23.30	-3,319.7	-211.1	1,105.4	1,039.3	66.10	16.725			
12,500.0	8,960.6	11,774.8	7,948.2	31.7	30.5	23.30	-3,374.7	-211.6	1,105.4	1,038.5	66.86	16.532			
12,540.0	8,960.7	11,814.8	7,948.3	31.9	30.8	23.30	-3,414.7	-212.0	1,105.3	1,037.9	67.42	16.394			
12,600.0	8,960.8	11,874.8	7,948.5	32.3	31.2	23.30	-3,474.7	-212.5	1,105.2	1,036.9	68.26	16.191			
12,635.0	8,960.8	11,909.8	7,948.6	32.5	31.4	23.30	-3,509.7	-212.8	1,105.2	1,036.4	68.75	16.075			
12,700.0	8,960.9	11,974.8	7,948.8	33.0	31.8	23.30	-3,574.7	-213.3	1,105.1	1,035.4	69.66	15.863			
12,730.0	8,960.9	12,004.8	7,948.8	33.2	32.0	23.30	-3,604.7	-213.6	1,105.0	1,034.9	70.09	15.766			
12,800.0	8,961.0	12,074.8	7,949.0	33.6	32.5	23.31	-3,674.7	-214.2	1,104.9	1,033.8	71.07	15.546			
12,825.0	8,961.0	12,099.8	7,949.1	33.8	32.7	23.31	-3,699.7	-214.4	1,104.9	1,033.4	71.43	15.468			
12,900.0	8,961.1	12,174.8	7,949.3	34.3	33.2	23.31	-3,774.7	-215.1	1,104.8	1,032.3	72.49	15.240			
12,920.0	8,961.1	12,194.8	7,949.4	34.4	33.3	23.31	-3,794.7	-215.3	1,104.7	1,032.0	72.78	15.180			
13,000.0	8,961.2	12,274.8	7,949.6	35.0	33.9	23.31	-3,874.7	-216.0	1,104.6	1,030.7	73.92	14.944			
13,015.0	8,961.2	12,289.8	7,949.6	35.1	34.0	23.31	-3,889.7	-216.1	1,104.6	1,030.5	74.13	14.901			
13,100.0	8,961.3	12,374.8	7,949.8	35.7	34.6	23.31	-3,974.7	-216.8	1,104.5	1,029.1	75.34	14.659			
13,110.0	8,961.3	12,384.8	7,949.9	35.7	34.7	23.31	-3,984.7	-216.9	1,104.4	1,029.0	75.49	14.631			
13,200.0	8,961.4	12,474.8	7,950.1	36.3	35.3	23.31	-4,074.7	-217.7	1,104.3	1,027.5	76.78	14.383			
13,205.0	8,961.4	12,479.8	7,950.1	36.4	35.3	23.31	-4,079.7	-217.7	1,104.3	1,027.5	76.85	14.370			
13,300.0	8,961.6	12,574.8	7,950.4	37.0	36.0	23.32	-4,174.7	-218.6	1,104.2	1,025.9	78.22	14.117			
13,395.0	8,961.7	12,669.8	7,950.6	37.7	36.7	23.32	-4,269.7	-219.4	1,104.0	1,024.4	79.59	13.872			
13,400.0	8,961.7	12,674.8	7,950.6	37.7	36.7	23.32	-4,274.7	-219.4	1,104.0	1,024.4	79.66	13.859			
13,490.0	8,961.8	12,764.8	7,950.9	38.3	37.4	23.32	-4,364.7	-220.2	1,103.9	1,022.9	80.96	13.634			
13,500.0	8,961.8	12,774.8	7,950.9	38.4	37.4	23.32	-4,374.7	-220.3	1,103.9	1,022.8	81.11	13.610			
13,585.0	8,961.9	12,859.8	7,951.1	39.0	38.0	23.32	-4,459.7	-221.0	1,103.7	1,021.4	82.34	13.404			
13,600.0	8,961.9	12,874.8	7,951.2	39.1	38.2	23.32	-4,474.7	-221.2	1,103.7	1,021.2	82.56	13.368			
13,680.0	8,962.0	12,954.8	7,951.4	39.7	38.7	23.33	-4,554.7	-221.9	1,103.6	1,019.9	83.73	13.181			
13,700.0	8,962.0	12,974.8	7,951.4	39.8	38.9	23.33	-4,574.7	-222.0	1,103.6	1,019.5	84.02	13.135			
13,775.0	8,962.1	13,049.8	7,951.6	40.3	39.4	23.33	-4,649.7	-222.7	1,103.5	1,018.3	85.11	12.965			
13,800.0	8,962.1	13,074.8	7,951.7	40.5	39.6	23.33	-4,674.7	-222.9	1,103.4	1,017.9	85.48	12.909			
13,870.0	8,962.2	13,144.8	7,951.9	41.0	40.1	23.33	-4,744.6	-223.5	1,103.3	1,016.8	86.50	12.755			
13,900.0	8,962.2	13,174.8	7,952.0	41.2	40.3	23.33	-4,774.6	-223.8	1,103.3	1,016.3	86.94	12.690			
13,965.0	8,962.3	13,239.8	7,952.2	41.7	40.8	23.33	-4,839.6	-224.3	1,103.2	1,015.3	87.89	12.551			
14,000.0	8,962.4	13,274.8	7,952.2	41.9	41.1	23.33	-4,874.6	-224.6	1,103.1	1,014.7	88.41	12.478			
14,060.0	8,962.4	13,334.8	7,952.4	42.3	41.5	23.33	-4,934.6	-225.2	1,103.0	1,013.7	89.29	12.353			
14,100.0	8,962.5	13,374.8	7,952.5	42.6	41.8	23.34	-4,974.6	-225.5	1,103.0	1,013.1	89.88	12.272			
14,155.0	8,962.5	13,429.8	7,952.7	43.0	42.2	23.34	-5,029.6	-226.0	1,102.9	1,012.2	90.69	12.161			
14,200.0	8,962.6	13,474.8	7,952.8	43.3	42.5	23.34	-5,074.6	-226.4	1,102.8	1,011.5	91.35	12.072			
14,250.0	8,962.6	13,524.8	7,952.9	43.7	42.9	23.34	-5,124.6	-226.8	1,102.7	1,010.7	92.09	11.975			
14,300.0	8,962.7	13,574.8	7,953.1	44.0	43.2	23.34	-5,174.6	-227.2	1,102.7	1,009.8	92.83	11.879			
14,345.0	8,962.7	13,619.8	7,953.2	44.4	43.6	23.34	-5,219.6	-227.6	1,102.6	1,009.1	93.49	11.794			
14,400.0	8,962.8	13,674.8	7,953.3	44.8	44.0	23.34	-5,274.6	-228.1	1,102.5	1,008.2	94.30	11.691			
14,440.0	8,962.9	13,714.8	7,953.4	45.0	44.3	23.34	-5,314.6	-228.5	1,102.5	1,007.6	94.90	11.617			
14,500.0	8,962.9	13,774.8	7,953.6	45.5	44.7	23.34	-5,374.6	-229.0	1,102.4	1,006.6	95.79	11.509			
14,535.0	8,963.0	13,809.8	7,953.7	45.7	45.0	23.34	-5,409.6	-229.3	1,102.3	1,006.0	96.31	11.446			

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 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		
14,600.0	8,963.0	13,874.8	7,953.9	46.2	45.4	23.35	-5,474.6	-229.8	1,102.2	1,005.0	97.27	11.332	
14,630.0	8,963.1	13,904.8	7,953.9	46.4	45.7	23.35	-5,504.6	-230.1	1,102.2	1,004.5	97.72	11.279	
14,700.0	8,963.2	13,974.8	7,954.1	46.9	46.2	23.35	-5,574.6	-230.7	1,102.1	1,003.3	98.76	11.160	
14,725.0	8,963.2	13,999.8	7,954.2	47.1	46.4	23.35	-5,599.6	-230.9	1,102.0	1,002.9	99.13	11.117	
14,800.0	8,963.3	14,074.8	7,954.4	47.6	46.9	23.35	-5,674.6	-231.6	1,101.9	1,001.7	100.24	10.992	
14,820.0	8,963.3	14,094.8	7,954.4	47.8	47.1	23.35	-5,694.6	-231.8	1,101.9	1,001.4	100.54	10.959	
14,900.0	8,963.4	14,174.8	7,954.7	48.4	47.7	23.35	-5,774.6	-232.4	1,101.8	1,000.0	101.74	10.830	
14,915.0	8,963.4	14,189.8	7,954.7	48.5	47.8	23.35	-5,789.6	-232.6	1,101.8	999.8	101.96	10.806	
15,000.0	8,963.5	14,274.8	7,954.9	49.1	48.4	23.36	-5,874.6	-233.3	1,101.6	998.4	103.23	10.672	
15,010.0	8,963.5	14,284.8	7,955.0	49.1	48.5	23.36	-5,884.6	-233.4	1,101.6	998.2	103.38	10.656	
15,100.0	8,963.6	14,374.8	7,955.2	49.8	49.1	23.36	-5,974.6	-234.2	1,101.5	996.8	104.72	10.518	
15,105.0	8,963.6	14,379.8	7,955.2	49.8	49.2	23.36	-5,979.6	-234.2	1,101.5	996.7	104.80	10.510	
15,200.0	8,963.7	14,474.8	7,955.5	50.5	49.9	23.36	-6,074.6	-235.1	1,101.3	995.1	106.22	10.368	
15,295.0	8,963.8	14,569.8	7,955.7	51.2	50.6	23.36	-6,169.6	-235.9	1,101.2	993.5	107.64	10.230	
15,300.0	8,963.8	14,574.8	7,955.7	51.3	50.6	23.36	-6,174.6	-235.9	1,101.2	993.5	107.72	10.223	
15,390.0	8,963.9	14,664.8	7,956.0	51.9	51.3	23.36	-6,264.6	-236.7	1,101.0	992.0	109.07	10.095	
15,400.0	8,963.9	14,674.8	7,956.0	52.0	51.4	23.36	-6,274.6	-236.8	1,101.0	991.8	109.22	10.081	
15,485.0	8,964.0	14,759.8	7,956.2	52.6	52.0	23.37	-6,359.6	-237.5	1,100.9	990.4	110.50	9.963	
15,500.0	8,964.1	14,774.8	7,956.3	52.7	52.1	23.37	-6,374.6	-237.7	1,100.9	990.2	110.72	9.943	
15,580.0	8,964.2	14,854.8	7,956.5	53.3	52.7	23.37	-6,454.6	-238.3	1,100.8	988.8	111.92	9.835	
15,600.0	8,964.2	14,874.8	7,956.5	53.4	52.8	23.37	-6,474.6	-238.5	1,100.7	988.5	112.22	9.808	
15,675.0	8,964.3	14,949.8	7,956.7	54.0	53.4	23.37	-6,549.6	-239.2	1,100.6	987.3	113.35	9.710	
15,700.0	8,964.3	14,974.8	7,956.8	54.2	53.6	23.37	-6,574.6	-239.4	1,100.6	986.9	113.73	9.677	
15,770.0	8,964.4	15,044.8	7,957.0	54.7	54.1	23.37	-6,644.6	-240.0	1,100.5	985.7	114.78	9.587	
15,800.0	8,964.4	15,074.8	7,957.1	54.9	54.3	23.37	-6,674.6	-240.3	1,100.4	985.2	115.24	9.549	
15,865.0	8,964.5	15,139.8	7,957.3	55.4	54.8	23.38	-6,739.6	-240.8	1,100.3	984.1	116.22	9.468	
15,900.0	8,964.5	15,174.8	7,957.3	55.6	55.1	23.38	-6,774.6	-241.1	1,100.3	983.5	116.75	9.425	
15,960.0	8,964.6	15,234.8	7,957.5	56.1	55.5	23.38	-6,834.6	-241.6	1,100.2	982.5	117.65	9.351	
16,000.0	8,964.6	15,274.8	7,957.6	56.4	55.8	23.38	-6,874.6	-242.0	1,100.1	981.9	118.25	9.303	
16,055.0	8,964.7	15,329.8	7,957.8	56.8	56.2	23.38	-6,929.6	-242.5	1,100.1	981.0	119.09	9.238	
16,100.0	8,964.7	15,374.8	7,957.9	57.1	56.6	23.38	-6,974.6	-242.9	1,100.0	980.2	119.77	9.185	
16,150.0	8,964.8	15,424.8	7,958.0	57.5	56.9	23.38	-7,024.6	-243.3	1,099.9	979.4	120.52	9.126	
16,200.0	8,964.9	15,474.8	7,958.2	57.8	57.3	23.38	-7,074.6	-243.7	1,099.8	978.6	121.28	9.069	
16,245.0	8,964.9	15,519.8	7,958.3	58.2	57.7	23.38	-7,119.5	-244.1	1,099.8	977.8	121.96	9.018	
16,300.0	8,965.0	15,574.8	7,958.4	58.6	58.1	23.39	-7,174.5	-244.6	1,099.7	976.9	122.79	8.956	
16,340.0	8,965.0	15,614.8	7,958.5	58.9	58.4	23.39	-7,214.5	-244.9	1,099.6	976.2	123.40	8.911	
16,400.0	8,965.1	15,674.8	7,958.7	59.3	58.8	23.39	-7,274.5	-245.5	1,099.5	975.2	124.31	8.845	
16,435.0	8,965.1	15,709.8	7,958.8	59.6	59.1	23.39	-7,309.5	-245.8	1,099.5	974.7	124.84	8.807	
16,500.0	8,965.2	15,774.8	7,959.0	60.1	59.6	23.39	-7,374.5	-246.3	1,099.4	973.6	125.82	8.738	
16,530.0	8,965.2	15,804.8	7,959.0	60.3	59.8	23.39	-7,404.5	-246.6	1,099.4	973.1	126.28	8.706	
16,600.0	8,965.3	15,874.8	7,959.2	60.8	60.3	23.39	-7,474.5	-247.2	1,099.2	971.9	127.34	8.632	
16,625.0	8,965.3	15,899.8	7,959.3	61.0	60.5	23.39	-7,499.5	-247.4	1,099.2	971.5	127.72	8.607	
16,700.0	8,965.4	15,974.8	7,959.5	61.5	61.1	23.39	-7,574.5	-248.1	1,099.1	970.2	128.86	8.530	
16,720.0	8,965.5	15,994.8	7,959.5	61.7	61.2	23.39	-7,594.5	-248.2	1,099.1	969.9	129.16	8.509	
16,800.0	8,965.5	16,074.8	7,959.8	62.3	61.8	23.40	-7,674.5	-248.9	1,099.0	968.6	130.38	8.429	
16,815.0	8,965.6	16,089.8	7,959.8	62.4	61.9	23.40	-7,689.5	-249.1	1,098.9	968.3	130.60	8.414	
16,900.0	8,965.7	16,174.8	7,960.0	63.0	62.6	23.40	-7,774.5	-249.8	1,098.8	966.9	131.90	8.331	
16,910.0	8,965.7	16,184.8	7,960.1	63.1	62.6	23.40	-7,784.5	-249.9	1,098.8	966.7	132.05	8.321	
17,000.0	8,965.8	16,274.8	7,960.3	63.8	63.3	23.40	-7,874.5	-250.7	1,098.7	965.2	133.42	8.235	
17,005.0	8,965.8	16,279.8	7,960.3	63.8	63.4	23.40	-7,879.5	-250.7	1,098.6	965.2	133.49	8.230	
17,100.0	8,965.9	16,374.8	7,960.6	64.5	64.1	23.40	-7,974.5	-251.5	1,098.5	963.6	134.94	8.141	

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 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)		
17,195.0	8,966.0	16,469.8	7,960.8	65.2	64.8	23.41	-8,069.5	-252.4	1,098.4	962.0	136.39	8.053
17,200.0	8,966.0	16,474.8	7,960.8	65.2	64.8	23.41	-8,074.5	-252.4	1,098.4	961.9	136.46	8.049
17,290.0	8,966.1	16,564.8	7,961.1	65.9	65.5	23.41	-8,164.5	-253.2	1,098.2	960.4	137.83	7.968
17,300.0	8,966.1	16,574.8	7,961.1	66.0	65.6	23.41	-8,174.5	-253.3	1,098.2	960.2	137.99	7.959
17,385.0	8,966.2	16,659.8	7,961.3	66.6	66.2	23.41	-8,259.5	-254.0	1,098.1	958.8	139.28	7.884
17,400.0	8,966.2	16,674.8	7,961.4	66.7	66.3	23.41	-8,274.5	-254.1	1,098.1	958.5	139.51	7.871
17,480.0	8,966.3	16,754.8	7,961.6	67.3	66.9	23.41	-8,354.5	-254.8	1,097.9	957.2	140.73	7.802
17,500.0	8,966.3	16,774.8	7,961.6	67.5	67.1	23.41	-8,374.5	-255.0	1,097.9	956.9	141.04	7.785
17,575.0	8,966.4	16,849.8	7,961.8	68.0	67.6	23.41	-8,449.5	-255.7	1,097.8	955.6	142.18	7.721
17,600.0	8,966.5	16,874.8	7,961.9	68.2	67.8	23.41	-8,474.5	-255.9	1,097.8	955.2	142.56	7.700
17,670.0	8,966.5	16,944.8	7,962.1	68.7	68.3	23.42	-8,544.5	-256.5	1,097.7	954.0	143.63	7.642
17,700.0	8,966.6	16,974.8	7,962.2	69.0	68.6	23.42	-8,574.5	-256.8	1,097.6	953.5	144.09	7.618
17,765.0	8,966.7	17,039.8	7,962.3	69.5	69.1	23.42	-8,639.5	-257.3	1,097.5	952.4	145.08	7.565
17,800.0	8,966.7	17,074.8	7,962.4	69.7	69.3	23.42	-8,674.5	-257.6	1,097.5	951.8	145.62	7.537
17,860.0	8,966.8	17,134.8	7,962.6	70.2	69.8	23.42	-8,734.5	-258.1	1,097.4	950.8	146.53	7.489
17,900.0	8,966.8	17,174.8	7,962.7	70.5	70.1	23.42	-8,774.5	-258.5	1,097.3	950.2	147.14	7.457
17,955.0	8,966.9	17,229.8	7,962.9	70.9	70.5	23.42	-8,829.5	-259.0	1,097.2	949.2	147.99	7.414
18,000.0	8,966.9	17,274.8	7,963.0	71.2	70.8	23.42	-8,874.5	-259.4	1,097.2	948.5	148.67	7.380
18,050.0	8,967.0	17,324.8	7,963.1	71.6	71.2	23.43	-8,924.5	-259.8	1,097.1	947.7	149.44	7.341
18,100.0	8,967.0	17,374.8	7,963.2	72.0	71.6	23.43	-8,974.5	-260.2	1,097.0	946.8	150.20	7.304
18,145.0	8,967.1	17,419.8	7,963.4	72.3	71.9	23.43	-9,019.5	-260.6	1,096.9	946.1	150.89	7.270
18,200.0	8,967.1	17,474.8	7,963.5	72.7	72.3	23.43	-9,074.5	-261.1	1,096.9	945.1	151.73	7.229
18,240.0	8,967.2	17,514.8	7,963.6	73.0	72.6	23.43	-9,114.5	-261.4	1,096.8	944.5	152.35	7.199
18,300.0	8,967.3	17,574.8	7,963.8	73.4	73.1	23.43	-9,174.5	-262.0	1,096.7	943.5	153.26	7.156
18,335.0	8,967.3	17,609.8	7,963.9	73.7	73.4	23.43	-9,209.5	-262.3	1,096.7	942.9	153.80	7.130
18,400.0	8,967.4	17,674.8	7,964.1	74.2	73.9	23.43	-9,274.5	-262.8	1,096.6	941.8	154.80	7.084
18,430.0	8,967.4	17,704.8	7,964.1	74.4	74.1	23.43	-9,304.5	-263.1	1,096.5	941.3	155.26	7.063
18,500.0	8,967.5	17,774.8	7,964.3	74.9	74.6	23.44	-9,374.5	-263.7	1,096.4	940.1	156.33	7.014
18,525.0	8,967.5	17,799.8	7,964.4	75.1	74.8	23.44	-9,399.5	-263.9	1,096.4	939.7	156.71	6.996
18,600.0	8,967.6	17,874.8	7,964.6	75.7	75.4	23.44	-9,474.4	-264.6	1,096.3	938.4	157.86	6.945
18,620.0	8,967.6	17,894.8	7,964.6	75.8	75.5	23.44	-9,494.4	-264.7	1,096.2	938.1	158.17	6.931
18,700.0	8,967.7	17,974.8	7,964.9	76.4	76.1	23.44	-9,574.4	-265.4	1,096.1	936.7	159.39	6.877
18,715.0	8,967.7	17,989.8	7,964.9	76.6	76.2	23.44	-9,589.4	-265.6	1,096.1	936.5	159.62	6.867
18,800.0	8,967.8	18,074.8	7,965.1	77.2	76.9	23.44	-9,674.4	-266.3	1,096.0	935.0	160.93	6.810
18,810.0	8,967.8	18,084.8	7,965.2	77.3	76.9	23.44	-9,684.4	-266.4	1,096.0	934.9	161.08	6.804
18,900.0	8,967.9	18,174.8	7,965.4	77.9	77.6	23.44	-9,774.4	-267.2	1,095.8	933.4	162.46	6.745
18,905.0	8,968.0	18,179.8	7,965.4	78.0	77.7	23.44	-9,779.4	-267.2	1,095.8	933.3	162.54	6.742
19,000.0	8,968.1	18,274.8	7,965.7	78.7	78.4	23.45	-9,874.4	-268.0	1,095.7	931.7	164.00	6.681
19,095.0	8,968.2	18,369.8	7,965.9	79.4	79.1	23.45	-9,969.4	-268.9	1,095.5	930.1	165.46	6.621
19,100.0	8,968.2	18,374.8	7,965.9	79.4	79.1	23.45	-9,974.4	-268.9	1,095.5	930.0	165.53	6.618
19,190.0	8,968.3	18,464.8	7,966.2	80.1	79.8	23.45	-10,064.4	-269.7	1,095.4	928.5	166.92	6.563
19,200.0	8,968.3	18,474.8	7,966.2	80.2	79.9	23.45	-10,074.4	-269.8	1,095.4	928.3	167.07	6.556
19,285.0	8,968.4	18,559.8	7,966.4	80.8	80.5	23.45	-10,159.4	-270.5	1,095.3	926.9	168.37	6.505
19,300.0	8,968.4	18,574.8	7,966.5	80.9	80.6	23.45	-10,174.4	-270.6	1,095.2	926.6	168.61	6.496
19,380.0	8,968.5	18,654.8	7,966.7	81.5	81.3	23.46	-10,254.4	-271.3	1,095.1	925.3	169.83	6.448
19,400.0	8,968.5	18,674.8	7,966.7	81.7	81.4	23.46	-10,274.4	-271.5	1,095.1	924.9	170.14	6.436
19,475.0	8,968.6	18,749.8	7,966.9	82.3	82.0	23.46	-10,349.4	-272.2	1,095.0	923.7	171.29	6.392
19,500.0	8,968.6	18,774.8	7,967.0	82.4	82.2	23.46	-10,374.4	-272.4	1,094.9	923.3	171.68	6.378
19,570.0	8,968.7	18,844.8	7,967.2	83.0	82.7	23.46	-10,444.4	-273.0	1,094.8	922.1	172.76	6.337
19,600.0	8,968.7	18,874.8	7,967.3	83.2	82.9	23.46	-10,474.4	-273.2	1,094.8	921.6	173.22	6.320
19,665.0	8,968.8	18,939.8	7,967.4	83.7	83.4	23.46	-10,539.4	-273.8	1,094.7	920.5	174.22	6.283

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 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	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)		
19,700.0	8,968.9	18,974.8	7,967.5	83.9	83.7	23.46	-10,574.4	-274.1	1,094.6	919.9	174.76	6.264	
19,760.0	8,968.9	19,034.8	7,967.7	84.4	84.1	23.46	-10,634.4	-274.6	1,094.5	918.9	175.68	6.230	
19,800.0	8,969.0	19,074.8	7,967.8	84.7	84.4	23.47	-10,674.4	-275.0	1,094.5	918.2	176.29	6.208	
19,855.0	8,969.0	19,129.8	7,968.0	85.1	84.8	23.47	-10,729.4	-275.5	1,094.4	917.3	177.14	6.178	
19,900.0	8,969.1	19,174.8	7,968.1	85.5	85.2	23.47	-10,774.4	-275.8	1,094.3	916.5	177.83	6.154	
19,950.0	8,969.1	19,224.8	7,968.2	85.8	85.6	23.47	-10,824.4	-276.3	1,094.3	915.7	178.60	6.127	
20,000.0	8,969.2	19,274.8	7,968.3	86.2	85.9	23.47	-10,874.4	-276.7	1,094.2	914.8	179.37	6.100	
20,045.0	8,969.3	19,319.8	7,968.5	86.5	86.3	23.47	-10,919.4	-277.1	1,094.1	914.1	180.06	6.076	
20,100.0	8,969.3	19,374.8	7,968.6	87.0	86.7	23.47	-10,974.4	-277.6	1,094.0	913.1	180.91	6.047	
20,140.0	8,969.4	19,414.8	7,968.7	87.3	87.0	23.47	-11,014.4	-277.9	1,094.0	912.5	181.53	6.027	
20,200.0	8,969.4	19,474.8	7,968.9	87.7	87.5	23.47	-11,074.4	-278.5	1,093.9	911.4	182.45	5.996	
20,235.0	8,969.5	19,509.8	7,969.0	88.0	87.7	23.48	-11,109.4	-278.8	1,093.8	910.8	182.99	5.978	
20,300.0	8,969.5	19,574.8	7,969.1	88.5	88.2	23.48	-11,174.4	-279.3	1,093.7	909.7	183.99	5.944	
20,330.0	8,969.6	19,604.8	7,969.2	88.7	88.4	23.48	-11,204.4	-279.6	1,093.7	909.2	184.45	5.929	
20,400.0	8,969.7	19,674.8	7,969.4	89.2	89.0	23.48	-11,274.4	-280.2	1,093.6	908.1	185.53	5.894	
20,425.0	8,969.7	19,699.8	7,969.5	89.4	89.2	23.48	-11,299.4	-280.4	1,093.6	907.6	185.92	5.882	
20,500.0	8,969.8	19,774.8	7,969.7	90.0	89.7	23.48	-11,374.4	-281.1	1,093.4	906.4	187.07	5.845	
20,520.0	8,969.8	19,794.8	7,969.7	90.1	89.9	23.48	-11,394.4	-281.2	1,093.4	906.0	187.38	5.835	
20,600.0	8,969.9	19,874.8	7,970.0	90.7	90.5	23.48	-11,474.4	-281.9	1,093.3	904.7	188.62	5.796	
20,615.0	8,969.9	19,889.8	7,970.0	90.8	90.6	23.48	-11,489.4	-282.1	1,093.3	904.4	188.85	5.789	
20,700.0	8,970.0	19,974.8	7,970.2	91.5	91.2	23.49	-11,574.4	-282.8	1,093.1	903.0	190.16	5.749	
20,710.0	8,970.0	19,984.8	7,970.2	91.5	91.3	23.49	-11,584.4	-282.9	1,093.1	902.8	190.31	5.744	
20,800.0	8,970.1	20,074.8	7,970.5	92.2	92.0	23.49	-11,674.4	-283.7	1,093.0	901.3	191.70	5.702	
20,805.0	8,970.1	20,079.8	7,970.5	92.3	92.0	23.49	-11,679.4	-283.7	1,093.0	901.2	191.78	5.699	
20,900.0	8,970.2	20,174.8	7,970.8	93.0	92.8	23.49	-11,774.4	-284.5	1,092.8	899.6	193.24	5.655	
20,995.0	8,970.3	20,269.8	7,971.0	93.7	93.5	23.49	-11,869.3	-285.4	1,092.7	898.0	194.71	5.612	
21,000.0	8,970.3	20,274.8	7,971.0	93.7	93.5	23.49	-11,874.3	-285.4	1,092.7	897.9	194.78	5.610	
21,090.0	8,970.4	20,364.8	7,971.3	94.4	94.2	23.50	-11,964.3	-286.2	1,092.6	896.4	196.17	5.569	
21,100.0	8,970.5	20,374.8	7,971.3	94.5	94.3	23.50	-11,974.3	-286.3	1,092.6	896.2	196.33	5.565	
21,185.0	8,970.6	20,459.8	7,971.5	95.1	94.9	23.50	-12,059.3	-287.0	1,092.4	894.8	197.64	5.527	
21,200.0	8,970.6	20,474.8	7,971.6	95.2	95.0	23.50	-12,074.3	-287.1	1,092.4	894.5	197.87	5.521	
21,280.0	8,970.7	20,554.8	7,971.8	95.8	95.6	23.50	-12,154.3	-287.8	1,092.3	893.2	199.11	5.486	
21,300.0	8,970.7	20,574.8	7,971.8	96.0	95.8	23.50	-12,174.3	-288.0	1,092.3	892.8	199.41	5.477	
21,375.0	8,970.8	20,649.8	7,972.0	96.6	96.4	23.50	-12,249.3	-288.7	1,092.1	891.6	200.57	5.445	
21,400.0	8,970.8	20,674.8	7,972.1	96.8	96.6	23.50	-12,274.3	-288.9	1,092.1	891.1	200.96	5.434	
21,470.0	8,970.9	20,744.8	7,972.3	97.3	97.1	23.50	-12,344.3	-289.5	1,092.0	890.0	202.04	5.405	
21,500.0	8,970.9	20,774.8	7,972.4	97.5	97.3	23.50	-12,374.3	-289.7	1,092.0	889.5	202.50	5.392	
21,565.0	8,971.0	20,839.8	7,972.5	98.0	97.8	23.51	-12,439.3	-290.3	1,091.9	888.4	203.51	5.365	
21,600.0	8,971.0	20,874.8	7,972.6	98.3	98.1	23.51	-12,474.3	-290.6	1,091.8	887.8	204.05	5.351	
21,660.0	8,971.1	20,934.8	7,972.8	98.7	98.5	23.51	-12,534.3	-291.1	1,091.7	886.7	204.97	5.326	
21,700.0	8,971.1	20,974.8	7,972.9	99.0	98.8	23.51	-12,574.3	-291.5	1,091.7	886.1	205.59	5.310	
21,755.0	8,971.2	21,029.8	7,973.1	99.4	99.2	23.51	-12,629.3	-292.0	1,091.6	885.1	206.44	5.288	
21,800.0	8,971.3	21,074.8	7,973.2	99.8	99.6	23.51	-12,674.3	-292.3	1,091.5	884.4	207.14	5.270	
21,850.0	8,971.3	21,124.8	7,973.3	100.2	100.0	23.51	-12,724.3	-292.8	1,091.4	883.5	207.91	5.250	
21,900.0	8,971.4	21,174.8	7,973.4	100.5	100.3	23.51	-12,774.3	-293.2	1,091.4	882.7	208.68	5.230	
21,945.0	8,971.4	21,219.8	7,973.6	100.9	100.7	23.52	-12,819.3	-293.6	1,091.3	881.9	209.38	5.212	
22,000.0	8,971.5	21,274.8	7,973.7	101.3	101.1	23.52	-12,874.3	-294.1	1,091.2	881.0	210.23	5.191	
22,040.0	8,971.5	21,314.8	7,973.8	101.6	101.4	23.52	-12,914.3	-294.4	1,091.2	880.3	210.85	5.175	
22,100.0	8,971.6	21,374.8	7,974.0	102.0	101.9	23.52	-12,974.3	-294.9	1,091.1	879.3	211.77	5.152	
22,135.0	8,971.6	21,409.8	7,974.1	102.3	102.1	23.52	-13,009.3	-295.3	1,091.0	878.7	212.31	5.139	
22,200.0	8,971.7	21,474.8	7,974.2	102.8	102.6	23.52	-13,074.3	-295.8	1,090.9	877.6	213.32	5.114	

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #521H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7437-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Distance	Rule Assigned:	Warning								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
22,230.0	8,971.8	21,504.8	7,974.3	103.0	102.9	23.52	-13,104.3	-296.1	1,090.9	877.1	213.78	5.103	
22,300.0	8,971.8	21,574.8	7,974.5	103.6	103.4	23.52	-13,174.3	-296.7	1,090.8	875.9	214.87	5.077	
22,325.0	8,971.9	21,599.8	7,974.6	103.7	103.6	23.52	-13,199.3	-296.9	1,090.7	875.5	215.25	5.067	
22,400.0	8,971.9	21,674.8	7,974.8	104.3	104.1	23.53	-13,274.3	-297.6	1,090.6	874.2	216.41	5.040	
22,420.0	8,972.0	21,694.8	7,974.8	104.5	104.3	23.53	-13,294.3	-297.7	1,090.6	873.9	216.72	5.032	
22,500.0	8,972.1	21,774.8	7,975.1	105.1	104.9	23.53	-13,374.3	-298.4	1,090.5	872.5	217.96	5.003	
22,515.0	8,972.1	21,789.8	7,975.1	105.2	105.0	23.53	-13,389.3	-298.6	1,090.4	872.3	218.19	4.998	
22,600.0	8,972.2	21,874.8	7,975.3	105.8	105.7	23.53	-13,474.3	-299.3	1,090.3	870.8	219.50	4.967	
22,610.0	8,972.2	21,884.8	7,975.3	105.9	105.7	23.53	-13,484.3	-299.4	1,090.3	870.6	219.66	4.964	
22,700.0	8,972.3	21,974.8	7,975.6	106.6	106.4	23.53	-13,574.3	-300.2	1,090.2	869.1	221.05	4.932	
22,705.0	8,972.3	21,979.8	7,975.6	106.6	106.5	23.53	-13,579.3	-300.2	1,090.2	869.0	221.13	4.930	
22,800.0	8,972.4	22,074.8	7,975.9	107.3	107.2	23.53	-13,674.3	-301.0	1,090.0	867.4	222.60	4.897	
22,895.0	8,972.5	22,169.8	7,976.1	108.1	107.9	23.54	-13,769.3	-301.8	1,089.9	865.8	224.07	4.864	
22,900.0	8,972.5	22,174.8	7,976.1	108.1	107.9	23.54	-13,774.3	-301.9	1,089.9	865.7	224.15	4.862	
22,990.0	8,972.6	22,264.8	7,976.4	108.8	108.6	23.54	-13,864.3	-302.7	1,089.7	864.2	225.54	4.832	
23,000.0	8,972.6	22,274.8	7,976.4	108.8	108.7	23.54	-13,874.3	-302.8	1,089.7	864.0	225.69	4.828	
23,085.0	8,972.7	22,359.8	7,976.6	109.5	109.3	23.54	-13,959.3	-303.5	1,089.6	862.6	227.01	4.800	
23,100.0	8,972.7	22,374.8	7,976.7	109.6	109.5	23.54	-13,974.3	-303.6	1,089.6	862.3	227.24	4.795	
23,180.0	8,972.8	22,454.8	7,976.9	110.2	110.1	23.54	-14,054.3	-304.3	1,089.5	861.0	228.48	4.768	
23,200.0	8,972.9	22,474.8	7,976.9	110.4	110.2	23.54	-14,074.3	-304.5	1,089.4	860.6	228.79	4.762	
23,275.0	8,972.9	22,549.8	7,977.1	110.9	110.8	23.55	-14,149.3	-305.1	1,089.3	859.4	229.95	4.737	
23,300.0	8,973.0	22,574.8	7,977.2	111.1	111.0	23.55	-14,174.2	-305.4	1,089.3	858.9	230.34	4.729	
23,370.0	8,973.1	22,644.8	7,977.4	111.6	111.5	23.55	-14,244.2	-306.0	1,089.2	857.8	231.42	4.706	
23,400.0	8,973.1	22,674.8	7,977.5	111.9	111.7	23.55	-14,274.2	-306.2	1,089.1	857.2	231.89	4.697	
23,465.0	8,973.2	22,739.8	7,977.6	112.4	112.2	23.55	-14,339.2	-306.8	1,089.0	856.1	232.89	4.676	
23,500.0	8,973.2	22,774.8	7,977.7	112.6	112.5	23.55	-14,374.2	-307.1	1,089.0	855.5	233.43	4.665	
23,560.0	8,973.3	22,834.8	7,977.9	113.1	113.0	23.55	-14,434.2	-307.6	1,088.9	854.5	234.36	4.646	
23,600.0	8,973.3	22,874.8	7,978.0	113.4	113.3	23.55	-14,474.2	-308.0	1,088.8	853.8	234.98	4.634	
23,655.0	8,973.4	22,929.8	7,978.1	113.8	113.7	23.55	-14,529.2	-308.4	1,088.8	852.9	235.84	4.617	
23,700.0	8,973.4	22,974.8	7,978.3	114.1	114.0	23.56	-14,574.2	-308.8	1,088.7	852.2	236.53	4.603	
23,750.0	8,973.5	23,024.8	7,978.4	114.5	114.4	23.56	-14,624.2	-309.3	1,088.6	851.3	237.31	4.587	
23,800.0	8,973.5	23,074.8	7,978.5	114.9	114.8	23.56	-14,674.2	-309.7	1,088.5	850.5	238.08	4.572	
23,845.0	8,973.6	23,119.8	7,978.7	115.2	115.1	23.56	-14,719.2	-310.1	1,088.5	849.7	238.78	4.558	
23,900.0	8,973.7	23,174.8	7,978.8	115.7	115.5	23.56	-14,774.2	-310.6	1,088.4	848.8	239.63	4.542	
23,940.0	8,973.7	23,214.8	7,978.9	116.0	115.8	23.56	-14,814.2	-310.9	1,088.3	848.1	240.25	4.530	
24,000.0	8,973.8	23,274.8	7,979.1	116.4	116.3	23.56	-14,874.2	-311.4	1,088.2	847.1	241.18	4.512	
24,035.0	8,973.8	23,309.8	7,979.2	116.7	116.6	23.56	-14,909.2	-311.7	1,088.2	846.5	241.72	4.502	
24,067.0	8,973.9	23,341.8	7,979.3	116.9	116.8	23.56	-14,941.2	-312.0	1,088.1	845.9	242.22	4.492	
24,100.0	8,973.9	23,374.8	7,979.3	117.2	117.1	23.57	-14,974.2	-312.3	1,088.1	845.4	242.73	4.483	
24,130.0	8,973.9	23,404.8	7,979.4	117.4	117.3	23.57	-15,004.2	-312.6	1,088.0	844.9	243.19	4.474	
24,197.0	8,974.0	23,471.8	7,979.6	117.9	117.8	23.57	-15,071.2	-313.2	1,087.9	843.7	244.23	4.455	
24,197.9	8,974.0	23,472.8	7,979.6	117.9	117.8	23.57	-15,072.2	-313.2	1,087.9	843.7	244.25	4.454 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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8530-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum Separation		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)	Factor		
5,600.0	5,566.6	5,971.9	5,852.9	17.4	23.1	92.19	331.1	1,528.2	1,307.5	1,272.2	35.33	37.012	
5,605.0	5,571.6	5,976.8	5,857.6	17.4	23.2	92.18	331.3	1,527.0	1,306.4	1,271.0	35.36	36.949	
5,700.0	5,666.6	6,069.0	5,947.1	17.5	23.6	91.97	336.6	1,505.4	1,283.8	1,247.9	35.89	35.769	
5,795.0	5,761.6	6,161.1	6,036.5	17.5	24.0	91.76	341.9	1,483.7	1,261.3	1,224.9	36.43	34.625	
5,800.0	5,766.6	6,166.0	6,041.2	17.5	24.1	91.75	342.2	1,482.6	1,260.1	1,223.7	36.46	34.566	
5,890.0	5,856.6	6,253.3	6,125.9	17.6	24.5	91.54	347.2	1,462.0	1,238.8	1,201.8	36.96	33.514	
5,900.0	5,866.6	6,263.0	6,135.4	17.6	24.5	91.52	347.8	1,459.8	1,236.4	1,199.4	37.02	33.399	
5,985.0	5,951.6	6,345.5	6,215.4	17.6	24.9	91.31	352.5	1,440.4	1,216.3	1,178.8	37.50	32.436	
6,000.0	5,966.6	6,360.0	6,229.5	17.6	25.0	91.28	353.4	1,437.0	1,212.8	1,175.2	37.58	32.269	
6,080.0	6,046.6	6,437.7	6,304.8	17.7	25.4	91.08	357.8	1,418.7	1,193.8	1,155.8	38.03	31.388	
6,100.0	6,066.6	6,457.1	6,323.7	17.7	25.5	91.02	358.9	1,414.1	1,189.1	1,151.0	38.15	31.172	
6,175.0	6,141.6	6,529.8	6,394.3	17.7	25.8	90.83	363.1	1,397.0	1,171.4	1,132.8	38.57	30.371	
6,200.0	6,166.6	6,554.1	6,417.8	17.7	25.9	90.76	364.5	1,391.3	1,165.5	1,126.8	38.71	30.108	
6,270.0	6,236.6	6,622.0	6,483.7	17.8	26.3	90.57	368.4	1,375.4	1,149.0	1,109.9	39.11	29.382	
6,300.0	6,266.6	6,651.1	6,511.9	17.8	26.4	90.49	370.1	1,368.5	1,141.9	1,102.6	39.27	29.075	
6,365.0	6,331.6	6,714.2	6,573.1	17.8	26.7	90.31	373.7	1,353.7	1,126.6	1,086.9	39.64	28.421	
6,400.0	6,366.6	6,748.2	6,606.1	17.8	26.9	90.21	375.7	1,345.7	1,118.3	1,078.5	39.83	28.076	
6,460.0	6,426.6	6,800.0	6,656.4	17.9	27.1	90.05	378.6	1,333.7	1,104.3	1,064.2	40.14	27.509	
6,500.0	6,466.6	6,825.5	6,681.3	17.9	27.2	89.98	380.0	1,328.0	1,095.4	1,055.1	40.33	27.161	
6,555.0	6,521.6	6,864.7	6,719.5	17.9	27.4	89.87	382.0	1,319.7	1,083.8	1,043.2	40.60	26.698	
6,600.0	6,566.6	6,900.0	6,754.1	18.0	27.6	89.77	383.7	1,312.7	1,074.8	1,034.0	40.82	26.332	
6,650.0	6,616.6	6,933.0	6,786.4	18.0	27.8	89.69	385.3	1,306.6	1,065.4	1,024.4	41.03	25.966	
6,700.0	6,666.6	6,969.1	6,822.0	18.0	27.9	89.60	386.8	1,300.2	1,056.6	1,015.4	41.25	25.614	
6,745.0	6,711.6	7,000.0	6,852.4	18.0	28.1	89.53	388.1	1,295.1	1,049.3	1,007.8	41.44	25.321	
6,800.0	6,766.6	7,041.9	6,893.8	18.1	28.3	89.44	389.6	1,288.7	1,040.9	999.2	41.67	24.980	
6,840.0	6,806.6	7,071.2	6,922.8	18.1	28.4	89.38	390.6	1,284.6	1,035.3	993.5	41.83	24.751	
6,900.0	6,866.6	7,115.3	6,966.5	18.1	28.6	89.30	392.0	1,278.9	1,027.6	985.5	42.06	24.434	
6,935.0	6,901.6	7,141.1	6,992.1	18.2	28.7	89.26	392.7	1,275.9	1,023.5	981.4	42.18	24.265	
7,000.0	6,966.6	7,200.0	7,050.7	18.2	29.0	89.17	394.2	1,269.9	1,016.9	974.4	42.47	23.944	
7,030.0	6,996.6	7,200.0	7,050.7	18.2	29.0	89.17	394.2	1,269.9	1,014.1	971.7	42.44	23.896	
7,100.0	7,066.6	7,263.4	7,113.9	18.2	29.2	89.10	395.5	1,264.7	1,008.5	965.8	42.72	23.608	
7,125.0	7,091.6	7,282.0	7,132.4	18.3	29.3	89.08	395.8	1,263.5	1,006.8	964.0	42.79	23.528	
7,200.0	7,166.6	7,337.9	7,188.2	18.3	29.5	89.03	396.5	1,260.4	1,002.7	959.7	42.99	23.325	
7,220.0	7,186.6	7,352.9	7,203.2	18.3	29.5	89.02	396.7	1,259.7	1,001.8	958.8	43.03	23.279	
7,300.0	7,266.6	7,412.6	7,262.9	18.4	29.7	88.99	397.2	1,257.9	999.4	956.2	43.19	23.137	
7,315.0	7,281.6	7,423.8	7,274.1	18.4	29.7	88.99	397.2	1,257.7	999.1	955.9	43.21	23.124	
7,400.0	7,366.6	7,492.4	7,342.6	18.4	29.8	88.98	397.3	1,257.3	998.6	955.3	43.27	23.077	
7,410.0	7,376.6	7,502.4	7,352.6	18.4	29.8	88.98	397.3	1,257.3	998.6	955.3	43.28	23.072	
7,500.0	7,466.6	7,592.4	7,442.6	18.5	29.8	88.98	397.3	1,257.3	998.6	955.2	43.37	23.024	
7,505.0	7,471.6	7,597.4	7,447.6	18.5	29.8	88.98	397.3	1,257.3	998.6	955.2	43.38	23.021	
7,600.0	7,566.6	7,692.4	7,542.6	18.5	29.8	88.98	397.3	1,257.3	998.6	955.1	43.47	22.970	
7,695.0	7,661.6	7,787.4	7,637.6	18.6	29.9	88.98	397.3	1,257.3	998.6	955.0	43.57	22.919	
7,700.0	7,666.6	7,792.4	7,642.6	18.6	29.9	88.98	397.3	1,257.3	998.6	955.0	43.57	22.916	
7,790.0	7,756.6	7,882.4	7,732.6	18.6	29.9	88.98	397.3	1,257.3	998.6	954.9	43.67	22.868	
7,800.0	7,766.6	7,892.4	7,742.6	18.7	29.9	88.98	397.3	1,257.3	998.6	954.9	43.68	22.863	
7,885.0	7,851.6	7,977.4	7,827.6	18.7	29.9	88.98	397.3	1,257.3	998.6	954.8	43.76	22.817	
7,900.0	7,866.6	7,992.4	7,842.6	18.7	29.9	88.98	397.3	1,257.3	998.6	954.8	43.78	22.809	
7,980.0	7,946.6	8,072.4	7,922.6	18.8	30.0	88.98	397.3	1,257.3	998.6	954.7	43.86	22.766	
8,000.0	7,966.6	8,092.4	7,942.6	18.8	30.0	88.98	397.3	1,257.3	998.6	954.7	43.88	22.756	
8,075.0	8,041.6	8,167.4	8,017.6	18.8	30.0	88.98	397.3	1,257.3	998.6	954.6	43.96	22.716	
8,100.0	8,066.6	8,192.4	8,042.6	18.8	30.0	88.98	397.3	1,257.3	998.6	954.6	43.98	22.702	

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8530-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum	Separation	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor
8,170.0	8,136.6	8,262.4	8,112.6	18.9	30.0	88.98	397.3	1,257.3	998.6	954.5	44.06	22.665
8,200.0	8,166.6	8,292.4	8,142.6	18.9	30.0	88.98	397.3	1,257.3	998.6	954.5	44.09	22.649
8,265.0	8,231.6	8,357.4	8,207.6	18.9	30.0	88.98	397.3	1,257.3	998.6	954.4	44.16	22.615
8,300.0	8,266.6	8,392.4	8,242.6	19.0	30.0	88.98	397.3	1,257.3	998.6	954.4	44.19	22.596
8,360.0	8,326.6	8,452.4	8,302.6	19.0	30.1	88.98	397.3	1,257.3	998.6	954.3	44.25	22.564
8,400.0	8,366.6	8,492.4	8,342.6	19.0	30.1	88.98	397.3	1,257.3	998.6	954.3	44.30	22.543
8,417.4	8,384.0	8,509.8	8,360.0	19.0	30.1	88.98	397.3	1,257.3	998.6	954.3	44.30	22.540 CC
8,450.0	8,416.6	8,543.0	8,393.2	19.0	30.1	-91.57	397.1	1,257.3	998.6	954.3	44.31	22.535
8,455.0	8,421.6	8,548.2	8,398.5	19.0	30.1	-91.58	397.0	1,257.3	998.6	954.3	44.31	22.534
8,500.0	8,466.3	8,595.5	8,445.6	19.1	30.1	-91.66	393.5	1,257.3	998.6	954.3	44.34	22.524
8,550.0	8,515.4	8,648.1	8,497.5	19.1	30.1	-91.74	385.1	1,257.2	998.7	954.3	44.35	22.516
8,600.0	8,563.5	8,700.9	8,548.6	19.2	30.1	-91.80	371.9	1,257.1	998.7	954.3	44.37	22.509
8,645.0	8,605.7	8,748.5	8,593.5	19.2	30.1	-91.84	356.1	1,257.0	998.7	954.4	44.38	22.505
8,650.0	8,610.3	8,753.8	8,598.4	19.2	30.1	-91.85	354.1	1,256.9	998.7	954.4	44.38	22.505
8,700.0	8,655.3	8,806.7	8,646.3	19.3	30.1	-91.88	331.7	1,256.8	998.8	954.4	44.39	22.501
8,740.0	8,689.8	8,849.1	8,683.1	19.3	30.1	-91.90	310.6	1,256.6	998.8	954.4	44.39	22.498
8,750.0	8,698.3	8,859.7	8,692.0	19.3	30.1	-91.90	304.9	1,256.5	998.8	954.4	44.40	22.498
8,800.0	8,738.8	8,912.8	8,735.1	19.4	30.2	-91.91	274.0	1,256.3	998.8	954.4	44.40	22.495
8,835.0	8,765.6	8,949.9	8,763.5	19.4	30.2	-91.90	250.1	1,256.1	998.8	954.4	44.41	22.492
8,850.0	8,776.7	8,965.8	8,775.2	19.5	30.2	-91.90	239.3	1,256.0	998.8	954.4	44.41	22.490
8,900.0	8,811.6	9,018.8	8,811.8	19.5	30.2	-91.87	201.0	1,255.7	998.9	954.4	44.43	22.483
8,930.0	8,830.9	9,050.5	8,832.0	19.5	30.2	-91.84	176.5	1,255.5	998.9	954.4	44.44	22.478
8,950.0	8,843.2	9,071.7	8,844.7	19.6	30.2	-91.83	159.6	1,255.3	998.9	954.4	44.45	22.474
9,000.0	8,871.3	9,124.6	8,873.6	19.6	30.2	-91.77	115.3	1,255.0	998.8	954.4	44.47	22.460
9,025.0	8,884.0	9,151.0	8,886.5	19.6	30.3	-91.74	92.3	1,254.8	998.8	954.4	44.49	22.451
9,050.0	8,895.7	9,177.3	8,898.3	19.7	30.3	-91.70	68.7	1,254.6	998.8	954.3	44.51	22.441
9,100.0	8,916.2	9,229.9	8,918.5	19.7	30.3	-91.61	20.2	1,254.2	998.8	954.3	44.56	22.417
9,120.0	8,923.3	9,250.9	8,925.3	19.7	30.3	-91.58	0.3	1,254.0	998.8	954.2	44.58	22.405
9,150.0	8,932.7	9,282.4	8,934.1	19.8	30.4	-91.52	-29.9	1,253.8	998.8	954.2	44.62	22.386
9,200.0	8,945.0	9,334.7	8,945.1	19.8	30.4	-91.41	-81.0	1,253.3	998.8	954.1	44.69	22.349
9,215.0	8,947.9	9,350.3	8,947.5	19.8	30.4	-91.37	-96.4	1,253.2	998.8	954.1	44.72	22.337
9,250.0	8,953.0	9,386.8	8,951.4	19.8	30.5	-91.29	-132.6	1,252.9	998.8	954.0	44.78	22.306
9,300.0	8,956.7	9,438.3	8,953.0	19.9	30.5	-91.16	-184.2	1,252.5	998.8	953.9	44.88	22.256
9,300.2	8,956.7	9,438.5	8,953.0	19.9	30.5	-91.16	-184.4	1,252.5	998.8	953.9	44.88	22.256
9,310.0	8,957.0	9,448.3	8,953.0	19.9	30.5	-91.15	-194.2	1,252.4	998.8	953.9	44.90	22.245
9,316.8	8,957.0	9,455.1	8,953.0	19.9	30.5	-91.15	-200.9	1,252.3	998.8	953.8	44.91	22.237
9,400.0	8,957.1	9,538.3	8,953.1	19.9	30.6	-91.15	-284.2	1,251.7	998.8	953.7	45.15	22.123
9,405.0	8,957.1	9,543.3	8,953.1	19.9	30.6	-91.15	-289.2	1,251.6	998.8	953.6	45.16	22.115
9,500.0	8,957.2	9,638.3	8,953.2	20.0	30.8	-91.14	-384.1	1,250.8	998.9	953.4	45.49	21.960
9,595.0	8,957.3	9,733.3	8,953.2	20.1	30.9	-91.14	-479.1	1,250.0	998.9	953.1	45.86	21.784
9,600.0	8,957.3	9,738.3	8,953.2	20.1	30.9	-91.14	-484.1	1,250.0	998.9	953.0	45.88	21.774
9,690.0	8,957.4	9,828.3	8,953.3	20.1	31.1	-91.14	-574.1	1,249.3	999.0	952.7	46.27	21.588
9,700.0	8,957.4	9,838.3	8,953.3	20.2	31.1	-91.14	-584.1	1,249.2	999.0	952.7	46.32	21.567
9,785.0	8,957.5	9,923.3	8,953.4	20.2	31.3	-91.14	-669.1	1,248.5	999.0	952.3	46.74	21.376
9,800.0	8,957.6	9,938.3	8,953.4	20.3	31.3	-91.14	-684.1	1,248.3	999.0	952.2	46.81	21.342
9,880.0	8,957.6	10,018.3	8,953.5	20.4	31.5	-91.14	-764.1	1,247.7	999.1	951.9	47.24	21.149
9,900.0	8,957.7	10,038.3	8,953.5	20.4	31.5	-91.14	-784.1	1,247.5	999.1	951.8	47.35	21.100
9,975.0	8,957.8	10,113.3	8,953.5	20.5	31.7	-91.14	-859.1	1,246.9	999.1	951.4	47.79	20.909
10,000.0	8,957.8	10,138.3	8,953.6	20.5	31.8	-91.13	-884.1	1,246.7	999.2	951.2	47.93	20.845
10,070.0	8,957.9	10,208.3	8,953.6	20.6	31.9	-91.13	-954.1	1,246.1	999.2	950.8	48.37	20.658
10,100.0	8,957.9	10,238.3	8,953.7	20.7	32.0	-91.13	-984.1	1,245.9	999.2	950.7	48.56	20.577

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1													Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8530-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft	
Reference				Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned: Distance			Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,165.0	8,958.0	10,303.3	8,953.7	20.8	32.2	-91.13	-1,049.1	1,245.3	999.3	950.3	48.99	20.396		
10,200.0	8,958.0	10,338.3	8,953.7	20.9	32.3	-91.13	-1,084.1	1,245.0	999.3	950.0	49.23	20.298		
10,260.0	8,958.1	10,398.3	8,953.8	21.0	32.4	-91.13	-1,144.1	1,244.5	999.3	949.7	49.65	20.127		
10,300.0	8,958.1	10,438.3	8,953.8	21.1	32.5	-91.13	-1,184.1	1,244.2	999.3	949.4	49.94	20.012		
10,355.0	8,958.2	10,493.3	8,953.9	21.2	32.7	-91.13	-1,239.1	1,243.8	999.4	949.0	50.34	19.852		
10,400.0	8,958.2	10,538.3	8,953.9	21.3	32.8	-91.13	-1,284.1	1,243.4	999.4	948.7	50.68	19.720		
10,450.0	8,958.3	10,588.3	8,953.9	21.4	33.0	-91.13	-1,334.1	1,243.0	999.4	948.4	51.07	19.571		
10,500.0	8,958.4	10,638.3	8,954.0	21.5	33.1	-91.12	-1,384.1	1,242.6	999.5	948.0	51.46	19.422		
10,545.0	8,958.4	10,683.3	8,954.0	21.7	33.3	-91.12	-1,429.1	1,242.2	999.5	947.7	51.82	19.287		
10,600.0	8,958.5	10,738.3	8,954.1	21.8	33.4	-91.12	-1,484.1	1,241.7	999.5	947.2	52.27	19.122		
10,640.0	8,958.5	10,778.3	8,954.1	22.0	33.6	-91.12	-1,524.1	1,241.4	999.5	946.9	52.61	19.001		
10,700.0	8,958.6	10,838.3	8,954.1	22.1	33.8	-91.12	-1,584.1	1,240.9	999.6	946.5	53.11	18.819		
10,735.0	8,958.6	10,873.3	8,954.2	22.3	33.9	-91.12	-1,619.1	1,240.6	999.6	946.2	53.42	18.713		
10,800.0	8,958.7	10,938.3	8,954.2	22.5	34.1	-91.12	-1,684.1	1,240.1	999.6	945.6	53.99	18.516		
10,830.0	8,958.7	10,968.3	8,954.2	22.6	34.2	-91.12	-1,714.1	1,239.8	999.6	945.4	54.26	18.425		
10,900.0	8,958.8	11,038.3	8,954.3	22.9	34.4	-91.12	-1,784.1	1,239.2	999.7	944.8	54.89	18.213		
10,925.0	8,958.8	11,063.3	8,954.3	23.0	34.5	-91.12	-1,809.1	1,239.0	999.7	944.6	55.12	18.138		
11,000.0	8,958.9	11,138.3	8,954.4	23.3	34.8	-91.11	-1,884.1	1,238.4	999.7	943.9	55.81	17.912		
11,020.0	8,958.9	11,158.3	8,954.4	23.4	34.9	-91.11	-1,904.1	1,238.3	999.8	943.8	56.00	17.851		
11,100.0	8,959.0	11,238.3	8,954.5	23.7	35.2	-91.11	-1,984.1	1,237.6	999.8	943.0	56.77	17.612		
11,115.0	8,959.1	11,253.3	8,954.5	23.8	35.2	-91.11	-1,999.1	1,237.5	999.8	942.9	56.91	17.567		
11,200.0	8,959.2	11,338.3	8,954.5	24.2	35.6	-91.11	-2,084.1	1,236.8	999.9	942.1	57.74	17.315		
11,210.0	8,959.2	11,348.3	8,954.5	24.2	35.6	-91.11	-2,094.1	1,236.7	999.9	942.0	57.84	17.286		
11,300.0	8,959.3	11,438.3	8,954.6	24.6	36.0	-91.11	-2,184.1	1,235.9	999.9	941.2	58.74	17.022		
11,305.0	8,959.3	11,443.3	8,954.6	24.7	36.0	-91.11	-2,189.1	1,235.9	999.9	941.1	58.79	17.007		
11,400.0	8,959.4	11,538.3	8,954.7	25.1	36.4	-91.11	-2,284.1	1,235.1	1,000.0	940.2	59.76	16.732		
11,495.0	8,959.5	11,633.3	8,954.8	25.6	36.8	-91.10	-2,379.1	1,234.3	1,000.0	939.3	60.75	16.461		
11,500.0	8,959.5	11,638.3	8,954.8	25.7	36.8	-91.10	-2,384.1	1,234.3	1,000.0	939.2	60.80	16.447		
11,590.0	8,959.6	11,728.3	8,954.8	26.2	37.2	-91.10	-2,474.1	1,233.5	1,000.1	938.3	61.76	16.194		
11,600.0	8,959.6	11,738.3	8,954.9	26.2	37.2	-91.10	-2,484.1	1,233.5	1,000.1	938.2	61.86	16.166		
11,685.0	8,959.7	11,823.3	8,954.9	26.7	37.6	-91.10	-2,569.1	1,232.7	1,000.1	937.4	62.78	15.931		
11,700.0	8,959.7	11,838.3	8,954.9	26.8	37.7	-91.10	-2,584.1	1,232.6	1,000.2	937.2	62.94	15.890		
11,780.0	8,959.8	11,918.3	8,955.0	27.2	38.0	-91.10	-2,664.1	1,232.0	1,000.2	936.4	63.82	15.673		
11,800.0	8,959.8	11,938.3	8,955.0	27.3	38.1	-91.10	-2,684.1	1,231.8	1,000.2	936.2	64.04	15.619		
11,875.0	8,959.9	12,013.3	8,955.1	27.8	38.5	-91.10	-2,759.1	1,231.2	1,000.3	935.4	64.87	15.419		
11,900.0	8,960.0	12,038.3	8,955.1	27.9	38.6	-91.10	-2,784.1	1,231.0	1,000.3	935.1	65.15	15.353		
11,970.0	8,960.0	12,108.3	8,955.2	28.3	38.9	-91.10	-2,854.1	1,230.4	1,000.3	934.4	65.94	15.170		
12,000.0	8,960.1	12,138.3	8,955.2	28.5	39.1	-91.09	-2,884.1	1,230.1	1,000.3	934.1	66.28	15.093		
12,065.0	8,960.1	12,203.3	8,955.2	28.9	39.4	-91.09	-2,949.1	1,229.6	1,000.4	933.4	67.02	14.927		
12,100.0	8,960.2	12,238.3	8,955.3	29.1	39.5	-91.09	-2,984.1	1,229.3	1,000.4	933.0	67.42	14.838		
12,160.0	8,960.2	12,298.3	8,955.3	29.5	39.8	-91.09	-3,044.1	1,228.8	1,000.4	932.3	68.11	14.688		
12,200.0	8,960.3	12,338.3	8,955.3	29.8	40.0	-91.09	-3,084.1	1,228.5	1,000.5	931.9	68.58	14.589		
12,255.0	8,960.4	12,393.3	8,955.4	30.1	40.3	-91.09	-3,139.1	1,228.0	1,000.5	931.3	69.22	14.454		
12,300.0	8,960.4	12,438.3	8,955.4	30.4	40.5	-91.09	-3,184.1	1,227.7	1,000.5	930.8	69.75	14.345		
12,350.0	8,960.5	12,488.3	8,955.5	30.7	40.8	-91.09	-3,234.0	1,227.2	1,000.5	930.2	70.34	14.225		
12,400.0	8,960.5	12,538.3	8,955.5	31.0	41.0	-91.09	-3,284.0	1,226.8	1,000.6	929.6	70.93	14.106		
12,445.0	8,960.6	12,583.3	8,955.5	31.3	41.2	-91.09	-3,329.0	1,226.5	1,000.6	929.1	71.47	14.001		
12,500.0	8,960.6	12,638.3	8,955.6	31.7	41.5	-91.08	-3,384.0	1,226.0	1,000.6	928.5	72.13	13.873		
12,540.0	8,960.7	12,678.3	8,955.6	31.9	41.7	-91.08	-3,424.0	1,225.7	1,000.7	928.0	72.61	13.782		
12,600.0	8,960.8	12,738.3	8,955.7	32.3	42.0	-91.08	-3,484.0	1,225.2	1,000.7	927.4	73.33	13.646		
12,635.0	8,960.8	12,773.3	8,955.7	32.5	42.2	-91.08	-3,519.0	1,224.9	1,000.7	926.9	73.76	13.567		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8530-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Rule Assigned:												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
12,700.0	8,960.9	12,838.3	8,955.7	33.0	42.6	-91.08	-3,584.0	1,224.3	1,000.7	926.2	74.55	13.424	
12,730.0	8,960.9	12,868.3	8,955.8	33.2	42.7	-91.08	-3,614.0	1,224.1	1,000.8	925.8	74.92	13.358	
12,800.0	8,961.0	12,938.3	8,955.8	33.6	43.1	-91.08	-3,684.0	1,223.5	1,000.8	925.0	75.78	13.207	
12,825.0	8,961.0	12,963.3	8,955.8	33.8	43.2	-91.08	-3,709.0	1,223.3	1,000.8	924.7	76.09	13.153	
12,900.0	8,961.1	13,038.3	8,955.9	34.3	43.6	-91.08	-3,784.0	1,222.7	1,000.9	923.8	77.02	12.995	
12,920.0	8,961.1	13,058.3	8,955.9	34.4	43.8	-91.08	-3,804.0	1,222.5	1,000.9	923.6	77.27	12.953	
13,000.0	8,961.2	13,138.3	8,956.0	35.0	44.2	-91.07	-3,884.0	1,221.9	1,000.9	922.7	78.27	12.789	
13,015.0	8,961.2	13,153.3	8,956.0	35.1	44.3	-91.07	-3,899.0	1,221.7	1,000.9	922.5	78.45	12.758	
13,100.0	8,961.3	13,238.3	8,956.1	35.7	44.7	-91.07	-3,984.0	1,221.0	1,001.0	921.5	79.52	12.587	
13,110.0	8,961.3	13,248.3	8,956.1	35.7	44.8	-91.07	-3,994.0	1,221.0	1,001.0	921.3	79.65	12.567	
13,200.0	8,961.4	13,338.3	8,956.1	36.3	45.3	-91.07	-4,084.0	1,220.2	1,001.0	920.2	80.79	12.391	
13,205.0	8,961.4	13,343.3	8,956.1	36.4	45.3	-91.07	-4,089.0	1,220.2	1,001.0	920.2	80.85	12.381	
13,300.0	8,961.6	13,438.3	8,956.2	37.0	45.9	-91.07	-4,184.0	1,219.4	1,001.1	919.0	82.06	12.199	
13,395.0	8,961.7	13,533.3	8,956.3	37.7	46.4	-91.07	-4,279.0	1,218.6	1,001.2	917.9	83.28	12.021	
13,400.0	8,961.7	13,538.3	8,956.3	37.7	46.4	-91.07	-4,284.0	1,218.6	1,001.2	917.8	83.35	12.012	
13,490.0	8,961.8	13,628.3	8,956.4	38.3	47.0	-91.07	-4,374.0	1,217.8	1,001.2	916.7	84.51	11.847	
13,500.0	8,961.8	13,638.3	8,956.4	38.4	47.0	-91.06	-4,384.0	1,217.7	1,001.2	916.6	84.64	11.829	
13,585.0	8,961.9	13,723.3	8,956.5	39.0	47.5	-91.06	-4,469.0	1,217.0	1,001.3	915.5	85.74	11.678	
13,600.0	8,961.9	13,738.3	8,956.5	39.1	47.6	-91.06	-4,484.0	1,216.9	1,001.3	915.3	85.94	11.651	
13,680.0	8,962.0	13,818.3	8,956.5	39.7	48.1	-91.06	-4,564.0	1,216.2	1,001.3	914.3	86.98	11.512	
13,700.0	8,962.0	13,838.3	8,956.5	39.8	48.2	-91.06	-4,584.0	1,216.1	1,001.3	914.1	87.24	11.478	
13,775.0	8,962.1	13,913.3	8,956.6	40.3	48.6	-91.06	-4,659.0	1,215.5	1,001.4	913.2	88.22	11.350	
13,800.0	8,962.1	13,938.3	8,956.6	40.5	48.8	-91.06	-4,684.0	1,215.2	1,001.4	912.8	88.55	11.308	
13,870.0	8,962.2	14,008.3	8,956.7	41.0	49.2	-91.06	-4,754.0	1,214.7	1,001.4	912.0	89.47	11.192	
13,900.0	8,962.2	14,038.3	8,956.7	41.2	49.4	-91.06	-4,784.0	1,214.4	1,001.4	911.6	89.87	11.143	
13,965.0	8,962.3	14,103.3	8,956.8	41.7	49.8	-91.06	-4,849.0	1,213.9	1,001.5	910.8	90.73	11.038	
14,000.0	8,962.4	14,138.3	8,956.8	41.9	50.0	-91.05	-4,884.0	1,213.6	1,001.5	910.3	91.19	10.982	
14,060.0	8,962.4	14,198.3	8,956.8	42.3	50.3	-91.05	-4,944.0	1,213.1	1,001.5	909.6	91.99	10.887	
14,100.0	8,962.5	14,238.3	8,956.9	42.6	50.6	-91.05	-4,984.0	1,212.8	1,001.6	909.0	92.52	10.825	
14,155.0	8,962.5	14,293.3	8,956.9	43.0	50.9	-91.05	-5,039.0	1,212.3	1,001.6	908.3	93.26	10.740	
14,200.0	8,962.6	14,338.3	8,956.9	43.3	51.2	-91.05	-5,084.0	1,211.9	1,001.6	907.8	93.86	10.671	
14,250.0	8,962.6	14,388.3	8,957.0	43.7	51.5	-91.05	-5,134.0	1,211.5	1,001.7	907.1	94.53	10.596	
14,300.0	8,962.7	14,438.3	8,957.0	44.0	51.8	-91.05	-5,184.0	1,211.1	1,001.7	906.5	95.20	10.522	
14,345.0	8,962.7	14,483.3	8,957.1	44.4	52.1	-91.05	-5,229.0	1,210.7	1,001.7	905.9	95.81	10.455	
14,400.0	8,962.8	14,538.3	8,957.1	44.8	52.4	-91.05	-5,284.0	1,210.3	1,001.7	905.2	96.55	10.375	
14,440.0	8,962.9	14,578.3	8,957.1	45.0	52.7	-91.05	-5,324.0	1,209.9	1,001.8	904.7	97.09	10.318	
14,500.0	8,962.9	14,638.3	8,957.2	45.5	53.0	-91.04	-5,384.0	1,209.5	1,001.8	903.9	97.90	10.233	
14,535.0	8,963.0	14,673.3	8,957.2	45.7	53.3	-91.04	-5,419.0	1,209.2	1,001.8	903.4	98.38	10.184	
14,600.0	8,963.0	14,738.3	8,957.3	46.2	53.7	-91.04	-5,484.0	1,208.6	1,001.9	902.6	99.26	10.094	
14,630.0	8,963.1	14,768.3	8,957.3	46.4	53.8	-91.04	-5,514.0	1,208.4	1,001.9	902.2	99.67	10.052	
14,700.0	8,963.2	14,838.3	8,957.4	46.9	54.3	-91.04	-5,584.0	1,207.8	1,001.9	901.3	100.62	9.958	
14,725.0	8,963.2	14,863.3	8,957.4	47.1	54.4	-91.04	-5,609.0	1,207.6	1,001.9	901.0	100.96	9.924	
14,800.0	8,963.3	14,938.3	8,957.4	47.6	54.9	-91.04	-5,684.0	1,207.0	1,002.0	900.0	101.99	9.825	
14,820.0	8,963.3	14,958.3	8,957.4	47.8	55.0	-91.04	-5,704.0	1,206.8	1,002.0	899.7	102.26	9.799	
14,900.0	8,963.4	15,038.3	8,957.5	48.4	55.6	-91.04	-5,784.0	1,206.1	1,002.0	898.7	103.36	9.695	
14,915.0	8,963.4	15,053.3	8,957.5	48.5	55.7	-91.04	-5,799.0	1,206.0	1,002.0	898.5	103.56	9.676	
15,000.0	8,963.5	15,138.3	8,957.6	49.1	56.2	-91.03	-5,884.0	1,205.3	1,002.1	897.4	104.73	9.568	
15,010.0	8,963.5	15,148.3	8,957.6	49.1	56.3	-91.03	-5,894.0	1,205.2	1,002.1	897.2	104.87	9.556	
15,100.0	8,963.6	15,238.3	8,957.7	49.8	56.8	-91.03	-5,984.0	1,204.5	1,002.2	896.0	106.11	9.445	
15,105.0	8,963.6	15,243.3	8,957.7	49.8	56.9	-91.03	-5,989.0	1,204.4	1,002.2	896.0	106.18	9.439	
15,200.0	8,963.7	15,338.3	8,957.8	50.5	57.5	-91.03	-6,084.0	1,203.7	1,002.2	894.7	107.49	9.324	

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8530-r.5 MWD+IFR1+MS							Rule Assigned:				Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance					
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	
15,295.0	8,963.8	15,433.3	8,957.8	51.2	58.1	-91.03	-6,178.9	1,202.9	1,002.3	893.5	108.81	9.211		
15,300.0	8,963.8	15,438.3	8,957.8	51.3	58.1	-91.03	-6,183.9	1,202.8	1,002.3	893.4	108.88	9.206		
15,390.0	8,963.9	15,528.3	8,957.9	51.9	58.7	-91.03	-6,273.9	1,202.1	1,002.3	892.2	110.13	9.102		
15,400.0	8,963.9	15,538.3	8,957.9	52.0	58.8	-91.03	-6,283.9	1,202.0	1,002.3	892.1	110.27	9.090		
15,485.0	8,964.0	15,623.3	8,958.0	52.6	59.3	-91.03	-6,368.9	1,201.3	1,002.4	890.9	111.45	8.994		
15,500.0	8,964.1	15,638.3	8,958.0	52.7	59.4	-91.03	-6,383.9	1,201.2	1,002.4	890.7	111.66	8.977		
15,580.0	8,964.2	15,718.3	8,958.1	53.3	60.0	-91.02	-6,463.9	1,200.5	1,002.4	889.7	112.78	8.889		
15,600.0	8,964.2	15,738.3	8,958.1	53.4	60.1	-91.02	-6,483.9	1,200.3	1,002.4	889.4	113.06	8.867		
15,675.0	8,964.3	15,813.3	8,958.1	54.0	60.6	-91.02	-6,558.9	1,199.7	1,002.5	888.4	114.11	8.786		
15,700.0	8,964.3	15,838.3	8,958.2	54.2	60.7	-91.02	-6,583.9	1,199.5	1,002.5	888.1	114.46	8.759		
15,770.0	8,964.4	15,908.3	8,958.2	54.7	61.2	-91.02	-6,653.9	1,198.9	1,002.5	887.1	115.44	8.685		
15,800.0	8,964.4	15,938.3	8,958.2	54.9	61.4	-91.02	-6,683.9	1,198.7	1,002.6	886.7	115.86	8.653		
15,865.0	8,964.5	16,003.3	8,958.3	55.4	61.8	-91.02	-6,748.9	1,198.2	1,002.6	885.8	116.77	8.586		
15,900.0	8,964.5	16,038.3	8,958.3	55.6	62.1	-91.02	-6,783.9	1,197.9	1,002.6	885.4	117.26	8.550		
15,960.0	8,964.6	16,098.3	8,958.4	56.1	62.5	-91.02	-6,843.9	1,197.4	1,002.7	884.5	118.11	8.489		
16,000.0	8,964.6	16,138.3	8,958.4	56.4	62.7	-91.02	-6,883.9	1,197.0	1,002.7	884.0	118.67	8.449		
16,055.0	8,964.7	16,193.3	8,958.4	56.8	63.1	-91.01	-6,938.9	1,196.6	1,002.7	883.3	119.45	8.394		
16,100.0	8,964.7	16,238.3	8,958.5	57.1	63.4	-91.01	-6,983.9	1,196.2	1,002.7	882.7	120.08	8.350		
16,150.0	8,964.8	16,288.3	8,958.5	57.5	63.7	-91.01	-7,033.9	1,195.8	1,002.8	882.0	120.79	8.302		
16,200.0	8,964.9	16,338.3	8,958.6	57.8	64.1	-91.01	-7,083.9	1,195.4	1,002.8	881.3	121.50	8.254		
16,245.0	8,964.9	16,383.3	8,958.6	58.2	64.4	-91.01	-7,128.9	1,195.0	1,002.8	880.7	122.14	8.211		
16,300.0	8,965.0	16,438.3	8,958.6	58.6	64.7	-91.01	-7,183.9	1,194.6	1,002.9	879.9	122.92	8.159		
16,340.0	8,965.0	16,478.3	8,958.7	58.9	65.0	-91.01	-7,223.9	1,194.2	1,002.9	879.4	123.48	8.122		
16,400.0	8,965.1	16,538.3	8,958.7	59.3	65.4	-91.01	-7,283.9	1,193.7	1,002.9	878.6	124.34	8.066		
16,435.0	8,965.1	16,573.3	8,958.7	59.6	65.7	-91.01	-7,318.9	1,193.4	1,002.9	878.1	124.83	8.034		
16,500.0	8,965.2	16,638.3	8,958.8	60.1	66.1	-91.01	-7,383.9	1,192.9	1,003.0	877.2	125.76	7.975		
16,530.0	8,965.2	16,668.3	8,958.8	60.3	66.3	-91.00	-7,413.9	1,192.7	1,003.0	876.8	126.18	7.949		
16,600.0	8,965.3	16,738.3	8,958.9	60.8	66.8	-91.00	-7,483.9	1,192.1	1,003.0	875.9	127.18	7.887		
16,625.0	8,965.3	16,763.3	8,958.9	61.0	66.9	-91.00	-7,508.9	1,191.9	1,003.0	875.5	127.54	7.865		
16,700.0	8,965.4	16,838.3	8,959.0	61.5	67.5	-91.00	-7,583.9	1,191.2	1,003.1	874.5	128.61	7.800		
16,720.0	8,965.5	16,858.3	8,959.0	61.7	67.6	-91.00	-7,603.9	1,191.1	1,003.1	874.2	128.89	7.782		
16,800.0	8,965.5	16,938.3	8,959.0	62.3	68.1	-91.00	-7,683.9	1,190.4	1,003.2	873.1	130.04	7.714		
16,815.0	8,965.6	16,953.3	8,959.1	62.4	68.2	-91.00	-7,698.9	1,190.3	1,003.2	872.9	130.25	7.702		
16,900.0	8,965.7	17,038.3	8,959.1	63.0	68.8	-91.00	-7,783.9	1,189.6	1,003.2	871.7	131.47	7.631		
16,910.0	8,965.7	17,048.3	8,959.1	63.1	68.9	-91.00	-7,793.9	1,189.5	1,003.2	871.6	131.61	7.623		
17,000.0	8,965.8	17,138.3	8,959.2	63.8	69.5	-91.00	-7,883.9	1,188.8	1,003.3	870.4	132.90	7.549		
17,005.0	8,965.8	17,143.3	8,959.2	63.8	69.5	-91.00	-7,888.9	1,188.7	1,003.3	870.3	132.97	7.545		
17,100.0	8,965.9	17,238.3	8,959.3	64.5	70.2	-90.99	-7,983.9	1,187.9	1,003.3	869.0	134.34	7.469		
17,195.0	8,966.0	17,333.3	8,959.4	65.2	70.8	-90.99	-8,078.9	1,187.1	1,003.4	867.7	135.70	7.394		
17,200.0	8,966.0	17,338.3	8,959.4	65.2	70.9	-90.99	-8,083.9	1,187.1	1,003.4	867.6	135.77	7.390		
17,290.0	8,966.1	17,428.3	8,959.4	65.9	71.5	-90.99	-8,173.9	1,186.4	1,003.4	866.4	137.07	7.321		
17,300.0	8,966.1	17,438.3	8,959.4	66.0	71.6	-90.99	-8,183.9	1,186.3	1,003.4	866.2	137.21	7.313		
17,385.0	8,966.2	17,523.3	8,959.5	66.6	72.2	-90.99	-8,268.9	1,185.6	1,003.5	865.1	138.44	7.249		
17,400.0	8,966.2	17,538.3	8,959.5	66.7	72.3	-90.99	-8,283.9	1,185.5	1,003.5	864.9	138.65	7.237		
17,480.0	8,966.3	17,618.3	8,959.6	67.3	72.8	-90.99	-8,363.9	1,184.8	1,003.6	863.7	139.81	7.178		
17,500.0	8,966.3	17,638.3	8,959.6	67.5	73.0	-90.99	-8,383.9	1,184.6	1,003.6	863.5	140.10	7.163		
17,575.0	8,966.4	17,713.3	8,959.7	68.0	73.5	-90.98	-8,458.9	1,184.0	1,003.6	862.4	141.18	7.109		
17,600.0	8,966.5	17,738.3	8,959.7	68.2	73.7	-90.98	-8,483.9	1,183.8	1,003.6	862.1	141.54	7.091		
17,670.0	8,966.5	17,808.3	8,959.7	68.7	74.1	-90.98	-8,553.9	1,183.2	1,003.7	861.1	142.55	7.041		
17,700.0	8,966.6	17,838.3	8,959.8	69.0	74.3	-90.98	-8,583.9	1,183.0	1,003.7	860.7	142.99	7.019		
17,765.0	8,966.7	17,903.3	8,959.8	69.5	74.8	-90.98	-8,648.9	1,182.4	1,003.7	859.8	143.93	6.974		

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8530-r.5 MWD+IFR1+MS						Rule Assigned:				Offset Well Error:	3.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance						
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	
17,800.0	8,966.7	17,938.3	8,959.8	69.7	75.0	-90.98	-8,683.9	1,182.1	1,003.7	859.3	144.43	6.949		
17,860.0	8,966.8	17,998.3	8,959.9	70.2	75.5	-90.98	-8,743.9	1,181.6	1,003.8	858.5	145.30	6.908		
17,900.0	8,966.8	18,038.3	8,959.9	70.5	75.7	-90.98	-8,783.9	1,181.3	1,003.8	857.9	145.88	6.881		
17,955.0	8,966.9	18,093.3	8,960.0	70.9	76.1	-90.98	-8,838.9	1,180.9	1,003.8	857.1	146.68	6.844		
18,000.0	8,966.9	18,138.3	8,960.0	71.2	76.4	-90.98	-8,883.9	1,180.5	1,003.9	856.5	147.34	6.813		
18,050.0	8,967.0	18,188.3	8,960.0	71.6	76.8	-90.97	-8,933.9	1,180.1	1,003.9	855.8	148.06	6.780		
18,100.0	8,967.0	18,238.3	8,960.1	72.0	77.1	-90.97	-8,983.8	1,179.7	1,003.9	855.1	148.79	6.747		
18,145.0	8,967.1	18,283.3	8,960.1	72.3	77.5	-90.97	-9,028.8	1,179.3	1,003.9	854.5	149.44	6.718		
18,200.0	8,967.1	18,338.3	8,960.2	72.7	77.8	-90.97	-9,083.8	1,178.8	1,004.0	853.7	150.24	6.682		
18,240.0	8,967.2	18,378.3	8,960.2	73.0	78.1	-90.97	-9,123.8	1,178.5	1,004.0	853.2	150.82	6.657		
18,300.0	8,967.3	18,438.3	8,960.2	73.4	78.6	-90.97	-9,183.8	1,178.0	1,004.0	852.3	151.70	6.619		
18,335.0	8,967.3	18,473.3	8,960.3	73.7	78.8	-90.97	-9,218.8	1,177.7	1,004.1	851.8	152.21	6.597		
18,400.0	8,967.4	18,538.3	8,960.3	74.2	79.3	-90.97	-9,283.8	1,177.2	1,004.1	850.9	153.15	6.556		
18,430.0	8,967.4	18,568.3	8,960.4	74.4	79.5	-90.97	-9,313.8	1,176.9	1,004.1	850.5	153.59	6.538		
18,500.0	8,967.5	18,638.3	8,960.4	74.9	80.0	-90.97	-9,383.8	1,176.3	1,004.2	849.5	154.61	6.495		
18,525.0	8,967.5	18,663.3	8,960.4	75.1	80.1	-90.96	-9,408.8	1,176.1	1,004.2	849.2	154.98	6.479		
18,600.0	8,967.6	18,738.3	8,960.5	75.7	80.7	-90.96	-9,483.8	1,175.5	1,004.2	848.1	156.07	6.434		
18,620.0	8,967.6	18,758.3	8,960.5	75.8	80.8	-90.96	-9,503.8	1,175.4	1,004.2	847.9	156.36	6.422		
18,700.0	8,967.7	18,838.3	8,960.6	76.4	81.4	-90.96	-9,583.8	1,174.7	1,004.3	846.7	157.53	6.375		
18,715.0	8,967.7	18,853.3	8,960.6	76.6	81.5	-90.96	-9,598.8	1,174.6	1,004.3	846.5	157.75	6.366		
18,800.0	8,967.8	18,938.3	8,960.6	77.2	82.1	-90.96	-9,683.8	1,173.9	1,004.3	845.3	158.99	6.317		
18,810.0	8,967.8	18,948.3	8,960.7	77.3	82.2	-90.96	-9,693.8	1,173.8	1,004.3	845.2	159.14	6.311		
18,900.0	8,967.9	19,038.3	8,960.7	77.9	82.8	-90.96	-9,783.8	1,173.0	1,004.4	843.9	160.46	6.260		
18,905.0	8,968.0	19,043.3	8,960.7	78.0	82.8	-90.96	-9,788.8	1,173.0	1,004.4	843.9	160.53	6.257		
19,000.0	8,968.1	19,138.3	8,960.8	78.7	83.5	-90.96	-9,883.8	1,172.2	1,004.4	842.5	161.92	6.203		
19,095.0	8,968.2	19,233.3	8,960.9	79.4	84.2	-90.95	-9,978.8	1,171.4	1,004.5	841.2	163.31	6.151		
19,100.0	8,968.2	19,238.3	8,960.9	79.4	84.2	-90.95	-9,983.8	1,171.4	1,004.5	841.1	163.39	6.148		
19,190.0	8,968.3	19,328.3	8,961.0	80.1	84.9	-90.95	-10,073.8	1,170.6	1,004.6	839.8	164.71	6.099		
19,200.0	8,968.3	19,338.3	8,961.0	80.2	84.9	-90.95	-10,083.8	1,170.6	1,004.6	839.7	164.85	6.094		
19,285.0	8,968.4	19,423.3	8,961.0	80.8	85.5	-90.95	-10,168.8	1,169.9	1,004.6	838.5	166.10	6.048		
19,300.0	8,968.4	19,438.3	8,961.1	80.9	85.6	-90.95	-10,183.8	1,169.7	1,004.6	838.3	166.32	6.040		
19,380.0	8,968.5	19,518.3	8,961.1	81.5	86.2	-90.95	-10,263.8	1,169.1	1,004.7	837.2	167.50	5.998		
19,400.0	8,968.5	19,538.3	8,961.1	81.7	86.4	-90.95	-10,283.8	1,168.9	1,004.7	836.9	167.79	5.988		
19,475.0	8,968.6	19,613.3	8,961.2	82.3	86.9	-90.95	-10,358.8	1,168.3	1,004.7	835.8	168.89	5.949		
19,500.0	8,968.6	19,638.3	8,961.2	82.4	87.1	-90.95	-10,383.8	1,168.1	1,004.7	835.5	169.26	5.936		
19,570.0	8,968.7	19,708.3	8,961.3	83.0	87.6	-90.94	-10,453.8	1,167.5	1,004.8	834.5	170.29	5.900		
19,600.0	8,968.7	19,738.3	8,961.3	83.2	87.8	-90.94	-10,483.8	1,167.2	1,004.8	834.1	170.73	5.885		
19,665.0	8,968.8	19,803.3	8,961.3	83.7	88.3	-90.94	-10,548.8	1,166.7	1,004.8	833.1	171.69	5.853		
19,700.0	8,968.9	19,838.3	8,961.4	83.9	88.5	-90.94	-10,583.8	1,166.4	1,004.9	832.7	172.20	5.835		
19,760.0	8,968.9	19,898.3	8,961.4	84.4	88.9	-90.94	-10,643.8	1,165.9	1,004.9	831.8	173.08	5.806		
19,800.0	8,969.0	19,938.3	8,961.5	84.7	89.2	-90.94	-10,683.8	1,165.6	1,004.9	831.2	173.67	5.786		
19,855.0	8,969.0	19,993.3	8,961.5	85.1	89.6	-90.94	-10,738.8	1,165.1	1,004.9	830.5	174.48	5.760		
19,900.0	8,969.1	20,038.3	8,961.5	85.5	89.9	-90.94	-10,783.8	1,164.8	1,005.0	829.8	175.15	5.738		
19,950.0	8,969.1	20,088.3	8,961.6	85.8	90.3	-90.94	-10,833.8	1,164.3	1,005.0	829.1	175.88	5.714		
20,000.0	8,969.2	20,138.3	8,961.6	86.2	90.7	-90.94	-10,883.8	1,163.9	1,005.0	828.4	176.62	5.690		
20,045.0	8,969.3	20,183.3	8,961.7	86.5	91.0	-90.93	-10,928.8	1,163.6	1,005.1	827.8	177.29	5.669		
20,100.0	8,969.3	20,238.3	8,961.7	87.0	91.4	-90.93	-10,983.8	1,163.1	1,005.1	827.0	178.10	5.643		
20,140.0	8,969.4	20,278.3	8,961.7	87.3	91.7	-90.93	-11,023.8	1,162.8	1,005.1	826.4	178.69	5.625		
20,200.0	8,969.4	20,338.3	8,961.8	87.7	92.1	-90.93	-11,083.8	1,162.3	1,005.1	825.6	179.57	5.597		
20,235.0	8,969.5	20,373.3	8,961.8	88.0	92.4	-90.93	-11,118.8	1,162.0	1,005.2	825.1	180.09	5.581		
20,300.0	8,969.5	20,438.3	8,961.9	88.5	92.8	-90.93	-11,183.8	1,161.5	1,005.2	824.2	181.05	5.552		

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8530-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Offset Wellbore Centre	Distance	Minimum Separation	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	Warning
20,330.0	8,969.6	20,468.3	8,961.9	88.7	93.0	-90.93	-11,213.8	1,161.2	1,005.2	823.7	181.49	5.539	
20,400.0	8,969.7	20,538.3	8,961.9	89.2	93.5	-90.93	-11,283.8	1,160.6	1,005.3	822.7	182.53	5.507	
20,425.0	8,969.7	20,563.3	8,962.0	89.4	93.7	-90.93	-11,308.8	1,160.4	1,005.3	822.4	182.90	5.496	
20,500.0	8,969.8	20,638.3	8,962.0	90.0	94.3	-90.93	-11,383.8	1,159.8	1,005.3	821.3	184.01	5.464	
20,520.0	8,969.8	20,658.3	8,962.0	90.1	94.4	-90.93	-11,403.8	1,159.6	1,005.3	821.0	184.30	5.455	
20,600.0	8,969.9	20,738.3	8,962.1	90.7	95.0	-90.92	-11,483.8	1,159.0	1,005.4	819.9	185.49	5.420	
20,615.0	8,969.9	20,753.3	8,962.1	90.8	95.1	-90.92	-11,498.8	1,158.8	1,005.4	819.7	185.71	5.414	
20,700.0	8,970.0	20,838.3	8,962.2	91.5	95.7	-90.92	-11,583.8	1,158.1	1,005.4	818.5	186.97	5.378	
20,710.0	8,970.0	20,848.3	8,962.2	91.5	95.8	-90.92	-11,593.8	1,158.1	1,005.4	818.3	187.11	5.373	
20,800.0	8,970.1	20,938.3	8,962.3	92.2	96.4	-90.92	-11,683.8	1,157.3	1,005.5	817.1	188.45	5.336	
20,805.0	8,970.1	20,943.3	8,962.3	92.3	96.5	-90.92	-11,688.8	1,157.3	1,005.5	817.0	188.52	5.334	
20,900.0	8,970.2	21,038.3	8,962.3	93.0	97.2	-90.92	-11,783.8	1,156.5	1,005.6	815.6	189.93	5.294	
20,995.0	8,970.3	21,133.3	8,962.4	93.7	97.9	-90.92	-11,878.7	1,155.7	1,005.6	814.3	191.34	5.256	
21,000.0	8,970.3	21,138.3	8,962.4	93.7	97.9	-90.92	-11,883.7	1,155.7	1,005.6	814.2	191.41	5.254	
21,090.0	8,970.4	21,228.3	8,962.5	94.4	98.5	-90.91	-11,973.7	1,154.9	1,005.7	812.9	192.75	5.218	
21,100.0	8,970.5	21,238.3	8,962.5	94.5	98.6	-90.91	-11,983.7	1,154.8	1,005.7	812.8	192.90	5.214	
21,185.0	8,970.6	21,323.3	8,962.6	95.1	99.2	-90.91	-12,068.7	1,154.1	1,005.7	811.6	194.16	5.180	
21,200.0	8,970.6	21,338.3	8,962.6	95.2	99.3	-90.91	-12,083.7	1,154.0	1,005.7	811.4	194.38	5.174	
21,280.0	8,970.7	21,418.3	8,962.6	95.8	99.9	-90.91	-12,163.7	1,153.3	1,005.8	810.2	195.57	5.143	
21,300.0	8,970.7	21,438.3	8,962.7	96.0	100.1	-90.91	-12,183.7	1,153.2	1,005.8	809.9	195.86	5.135	
21,375.0	8,970.8	21,513.3	8,962.7	96.6	100.6	-90.91	-12,258.7	1,152.6	1,005.8	808.9	196.98	5.106	
21,400.0	8,970.8	21,538.3	8,962.7	96.8	100.8	-90.91	-12,283.7	1,152.3	1,005.9	808.5	197.35	5.097	
21,470.0	8,970.9	21,608.3	8,962.8	97.3	101.3	-90.91	-12,353.7	1,151.8	1,005.9	807.5	198.39	5.070	
21,500.0	8,970.9	21,638.3	8,962.8	97.5	101.5	-90.91	-12,383.7	1,151.5	1,005.9	807.1	198.83	5.059	
21,565.0	8,971.0	21,703.3	8,962.9	98.0	102.0	-90.90	-12,448.7	1,151.0	1,006.0	806.2	199.80	5.035	
21,600.0	8,971.0	21,738.3	8,962.9	98.3	102.3	-90.90	-12,483.7	1,150.7	1,006.0	805.7	200.32	5.022	
21,660.0	8,971.1	21,798.3	8,963.0	98.7	102.7	-90.90	-12,543.7	1,150.2	1,006.0	804.8	201.21	5.000	
21,700.0	8,971.1	21,838.3	8,963.0	99.0	103.0	-90.90	-12,583.7	1,149.9	1,006.0	804.2	201.81	4.985	
21,755.0	8,971.2	21,893.3	8,963.0	99.4	103.4	-90.90	-12,638.7	1,149.4	1,006.1	803.4	202.63	4.965	
21,800.0	8,971.3	21,938.3	8,963.1	99.8	103.7	-90.90	-12,683.7	1,149.0	1,006.1	802.8	203.30	4.949	
21,850.0	8,971.3	21,988.3	8,963.1	100.2	104.1	-90.90	-12,733.7	1,148.6	1,006.1	802.1	204.04	4.931	
21,900.0	8,971.4	22,038.3	8,963.1	100.5	104.5	-90.90	-12,783.7	1,148.2	1,006.1	801.4	204.78	4.913	
21,945.0	8,971.4	22,083.3	8,963.2	100.9	104.8	-90.90	-12,828.7	1,147.8	1,006.2	800.7	205.45	4.897	
22,000.0	8,971.5	22,138.3	8,963.2	101.3	105.2	-90.90	-12,883.7	1,147.4	1,006.2	799.9	206.27	4.878	
22,040.0	8,971.5	22,178.3	8,963.3	101.6	105.5	-90.90	-12,923.7	1,147.1	1,006.2	799.4	206.87	4.864	
22,100.0	8,971.6	22,238.3	8,963.3	102.0	105.9	-90.89	-12,983.7	1,146.6	1,006.3	798.5	207.76	4.843	
22,135.0	8,971.6	22,273.3	8,963.3	102.3	106.2	-90.89	-13,018.7	1,146.3	1,006.3	798.0	208.28	4.831	
22,200.0	8,971.7	22,338.3	8,963.4	102.8	106.6	-90.89	-13,083.7	1,145.7	1,006.3	797.1	209.25	4.809	
22,230.0	8,971.8	22,368.3	8,963.4	103.0	106.9	-90.89	-13,113.7	1,145.5	1,006.3	796.6	209.70	4.799	
22,300.0	8,971.8	22,438.3	8,963.5	103.6	107.4	-90.89	-13,183.7	1,144.9	1,006.4	795.6	210.74	4.775	
22,325.0	8,971.9	22,463.3	8,963.5	103.7	107.6	-90.89	-13,208.7	1,144.7	1,006.4	795.3	211.12	4.767	
22,400.0	8,971.9	22,538.3	8,963.5	104.3	108.1	-90.89	-13,283.7	1,144.1	1,006.4	794.2	212.23	4.742	
22,420.0	8,972.0	22,558.3	8,963.6	104.5	108.3	-90.89	-13,303.7	1,143.9	1,006.5	793.9	212.53	4.736	
22,500.0	8,972.1	22,638.3	8,963.6	105.1	108.8	-90.89	-13,383.7	1,143.2	1,006.5	792.8	213.73	4.709	
22,515.0	8,972.1	22,653.3	8,963.6	105.2	109.0	-90.89	-13,398.7	1,143.1	1,006.5	792.6	213.95	4.704	
22,600.0	8,972.2	22,738.3	8,963.7	105.8	109.6	-90.88	-13,483.7	1,142.4	1,006.6	791.3	215.22	4.677	
22,610.0	8,972.2	22,748.3	8,963.7	105.9	109.7	-90.88	-13,493.7	1,142.3	1,006.6	791.2	215.37	4.674	
22,700.0	8,972.3	22,838.3	8,963.8	106.6	110.3	-90.88	-13,583.7	1,141.6	1,006.6	789.9	216.71	4.645	
22,705.0	8,972.3	22,843.3	8,963.8	106.6	110.4	-90.88	-13,588.7	1,141.5	1,006.6	789.8	216.78	4.643	
22,800.0	8,972.4	22,938.3	8,963.9	107.3	111.1	-90.88	-13,683.7	1,140.8	1,006.7	788.5	218.20	4.613	
22,895.0	8,972.5	23,033.3	8,963.9	108.1	111.7	-90.88	-13,778.7	1,140.0	1,006.7	787.1	219.62	4.584	

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8530-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum	Separation	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor	
22,900.0	8,972.5	23,038.3	8,963.9	108.1	111.8	-90.88	-13,783.7	1,139.9	1,006.7	787.0	219.70	4.582	
22,990.0	8,972.6	23,128.3	8,964.0	108.8	112.4	-90.88	-13,873.7	1,139.2	1,006.8	785.7	221.04	4.555	
23,000.0	8,972.6	23,138.3	8,964.0	108.8	112.5	-90.88	-13,883.7	1,139.1	1,006.8	785.6	221.19	4.552	
23,085.0	8,972.7	23,223.3	8,964.1	109.5	113.1	-90.87	-13,968.7	1,138.4	1,006.8	784.4	222.46	4.526	
23,100.0	8,972.7	23,238.3	8,964.1	109.6	113.3	-90.87	-13,983.7	1,138.3	1,006.9	784.2	222.68	4.521	
23,180.0	8,972.8	23,318.3	8,964.2	110.2	113.8	-90.87	-14,063.7	1,137.6	1,006.9	783.0	223.88	4.497	
23,200.0	8,972.9	23,338.3	8,964.2	110.4	114.0	-90.87	-14,083.7	1,137.5	1,006.9	782.7	224.18	4.492	
23,275.0	8,972.9	23,413.3	8,964.3	110.9	114.5	-90.87	-14,158.7	1,136.8	1,007.0	781.7	225.30	4.469	
23,300.0	8,973.0	23,438.3	8,964.3	111.1	114.7	-90.87	-14,183.7	1,136.6	1,007.0	781.3	225.68	4.462	
23,370.0	8,973.1	23,508.3	8,964.3	111.6	115.2	-90.87	-14,253.7	1,136.0	1,007.0	780.3	226.72	4.442	
23,400.0	8,973.1	23,538.3	8,964.4	111.9	115.5	-90.87	-14,283.7	1,135.8	1,007.0	779.9	227.17	4.433	
23,465.0	8,973.2	23,603.3	8,964.4	112.4	115.9	-90.87	-14,348.7	1,135.3	1,007.1	778.9	228.14	4.414	
23,500.0	8,973.2	23,638.3	8,964.4	112.6	116.2	-90.87	-14,383.7	1,135.0	1,007.1	778.4	228.67	4.404	
23,560.0	8,973.3	23,698.3	8,964.5	113.1	116.6	-90.87	-14,443.7	1,134.5	1,007.1	777.6	229.56	4.387	
23,600.0	8,973.3	23,738.3	8,964.5	113.4	116.9	-90.86	-14,483.7	1,134.1	1,007.1	777.0	230.16	4.376	
23,655.0	8,973.4	23,793.3	8,964.6	113.8	117.3	-90.86	-14,538.7	1,133.7	1,007.2	776.2	230.99	4.360	
23,700.0	8,973.4	23,838.3	8,964.6	114.1	117.7	-90.86	-14,583.7	1,133.3	1,007.2	775.5	231.66	4.348	
23,750.0	8,973.5	23,888.3	8,964.6	114.5	118.1	-90.86	-14,633.7	1,132.9	1,007.2	774.8	232.41	4.334	
23,800.0	8,973.5	23,938.3	8,964.7	114.9	118.4	-90.86	-14,683.7	1,132.5	1,007.3	774.1	233.16	4.320	
23,845.0	8,973.6	23,983.3	8,964.7	115.2	118.8	-90.86	-14,728.6	1,132.1	1,007.3	773.5	233.83	4.308	
23,900.0	8,973.7	24,038.3	8,964.8	115.7	119.2	-90.86	-14,783.6	1,131.7	1,007.3	772.7	234.66	4.293	
23,940.0	8,973.7	24,078.3	8,964.8	116.0	119.5	-90.86	-14,823.6	1,131.3	1,007.3	772.1	235.26	4.282	
24,000.0	8,973.8	24,138.3	8,964.8	116.4	119.9	-90.86	-14,883.6	1,130.8	1,007.4	771.2	236.15	4.266	
24,035.0	8,973.8	24,173.3	8,964.9	116.7	120.2	-90.86	-14,918.6	1,130.5	1,007.4	770.7	236.68	4.256	
24,067.0	8,973.9	24,205.3	8,964.9	116.9	120.4	-90.86	-14,950.6	1,130.3	1,007.4	770.3	237.16	4.248	
24,100.0	8,973.9	24,238.3	8,964.9	117.2	120.6	-90.85	-14,983.6	1,130.0	1,007.4	769.8	237.65	4.239	
24,130.0	8,973.9	24,268.3	8,964.9	117.4	120.9	-90.85	-15,013.6	1,129.8	1,007.5	769.4	238.10	4.231	
24,197.0	8,974.0	24,335.3	8,965.0	117.9	121.4	-90.85	-15,080.6	1,129.2	1,007.5	768.4	239.10	4.214	
24,197.9	8,974.0	24,336.2	8,965.0	117.9	121.4	-90.85	-15,081.6	1,129.2	1,007.5	768.4	239.12	4.213 ES, SF	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 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		
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			
1,520.0	1,520.0	1,519.1	1,519.1	4.8	4.7	54.80	0.5	30.1	30.0	21.1	8.93	3.360 ES			
1,600.0	1,600.0	1,598.4	1,598.4	4.9	4.8	55.93	1.3	31.5	30.5	21.4	9.16	3.332			
1,615.0	1,615.0	1,613.2	1,613.2	4.9	4.9	56.29	1.6	32.0	30.7	21.5	9.22	3.328			
1,700.0	1,699.8	1,697.4	1,697.3	5.1	5.1	59.17	3.7	36.0	32.2	22.6	9.58	3.358			
1,710.0	1,709.8	1,707.3	1,707.1	5.2	5.1	59.59	4.1	36.6	32.4	22.8	9.62	3.368			
1,800.0	1,799.5	1,796.4	1,795.8	5.4	5.3	63.85	7.8	43.5	35.1	25.1	9.97	3.523			
1,805.0	1,804.4	1,801.3	1,800.8	5.4	5.3	64.11	8.1	43.9	35.3	25.3	9.99	3.535			
1,900.0	1,898.7	1,895.2	1,894.0	5.7	5.6	69.14	13.5	53.9	39.6	29.3	10.33	3.831			
1,950.1	1,948.2	1,944.7	1,942.9	5.8	5.7	71.79	16.9	60.3	42.4	32.0	10.46	4.057			
1,995.0	1,992.6	1,989.0	1,986.6	5.9	5.9	73.72	20.4	66.6	45.5	34.9	10.58	4.298			
2,000.0	1,997.5	1,993.9	1,991.5	5.9	5.9	73.88	20.8	67.3	45.8	35.2	10.59	4.328			
2,090.0	2,086.4	2,082.6	2,078.6	6.1	6.2	75.19	28.7	81.9	53.5	42.6	10.93	4.895			
2,100.0	2,096.3	2,092.4	2,088.2	6.1	6.2	75.18	29.6	83.6	54.5	43.5	10.97	4.965			
2,185.0	2,180.3	2,175.7	2,169.5	6.4	6.5	74.18	38.4	99.7	63.6	52.3	11.33	5.614			
2,200.0	2,195.1	2,190.4	2,183.7	6.4	6.6	73.87	40.0	102.8	65.4	54.0	11.39	5.738			
2,280.0	2,274.1	2,269.6	2,260.6	6.7	6.8	72.20	49.2	119.6	75.2	63.5	11.76	6.397			
2,300.0	2,293.8	2,289.5	2,279.9	6.7	6.9	71.85	51.4	123.8	77.7	65.9	11.86	6.556			
2,375.0	2,367.9	2,363.9	2,352.0	7.0	7.1	70.70	60.0	139.6	87.0	74.8	12.22	7.125			
2,400.0	2,392.6	2,388.7	2,376.1	7.0	7.2	70.37	62.9	144.9	90.2	77.8	12.34	7.307			
2,470.0	2,461.7	2,458.1	2,443.5	7.3	7.5	69.55	70.9	159.7	98.9	86.2	12.69	7.793			

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 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		
2,500.0	2,491.4	2,487.9	2,472.4	7.4	7.6	69.25	74.4	166.0	102.6	89.8	12.84	7.993		
2,565.0	2,555.6	2,552.3	2,534.9	7.6	7.8	68.66	81.8	179.7	110.8	97.6	13.18	8.406		
2,600.0	2,590.1	2,587.1	2,568.6	7.7	7.9	68.37	85.8	187.1	115.1	101.8	13.36	8.620		
2,660.0	2,649.4	2,646.6	2,626.4	7.9	8.1	67.93	92.7	199.7	122.7	109.0	13.68	8.969		
2,700.0	2,688.9	2,686.3	2,664.9	8.1	8.3	67.67	97.3	208.2	127.7	113.8	13.89	9.191		
2,755.0	2,743.2	2,740.8	2,717.8	8.2	8.5	67.34	103.6	219.8	134.6	120.4	14.19	9.484		
2,800.0	2,787.7	2,785.5	2,761.1	8.4	8.7	67.09	108.7	229.3	140.2	125.8	14.44	9.713		
2,850.0	2,837.1	2,835.1	2,809.3	8.6	8.9	66.84	114.5	239.8	146.5	131.8	14.71	9.957		
2,900.0	2,886.5	2,884.7	2,857.4	8.8	9.1	66.60	120.2	250.4	152.8	137.8	14.99	10.190		
2,945.0	2,930.9	2,929.3	2,900.7	8.9	9.2	66.41	125.3	259.8	158.4	143.2	15.25	10.391		
3,000.0	2,985.2	2,983.9	2,953.6	9.2	9.5	66.19	131.6	271.4	165.3	149.8	15.56	10.626		
3,040.0	3,024.7	3,023.5	2,992.1	9.3	9.6	66.05	136.2	279.9	170.4	154.6	15.79	10.790		
3,100.0	3,084.0	3,083.1	3,049.9	9.5	9.9	65.84	143.1	292.5	177.9	161.8	16.14	11.026		
3,135.0	3,118.6	3,117.8	3,083.6	9.7	10.0	65.73	147.1	299.9	182.3	166.0	16.34	11.158		
3,200.0	3,182.8	3,182.3	3,146.1	9.9	10.3	65.54	154.6	313.6	190.5	173.8	16.72	11.393		
3,230.0	3,212.4	3,212.0	3,175.0	10.0	10.4	65.45	158.0	320.0	194.3	177.4	16.90	11.497		
3,300.0	3,281.5	3,281.5	3,242.4	10.3	10.7	65.27	166.0	334.7	203.1	185.8	17.31	11.730		
3,325.0	3,306.2	3,306.3	3,266.5	10.4	10.8	65.21	168.9	340.0	206.2	188.8	17.46	11.810		
3,400.0	3,380.3	3,380.7	3,338.6	10.7	11.1	65.03	177.5	355.8	215.7	197.8	17.91	12.040		
3,420.0	3,400.0	3,400.5	3,357.9	10.8	11.2	64.99	179.8	360.0	218.2	200.2	18.03	12.100		
3,500.0	3,479.1	3,479.9	3,434.9	11.1	11.6	64.82	188.9	376.9	228.3	209.7	18.52	12.327		
3,515.0	3,493.9	3,494.8	3,449.3	11.2	11.6	64.79	190.6	380.1	230.2	211.5	18.61	12.368		
3,600.0	3,577.8	3,579.1	3,531.2	11.5	12.0	64.63	200.4	398.0	240.9	221.7	19.13	12.592		
3,610.0	3,587.7	3,589.0	3,540.8	11.5	12.1	64.61	201.5	400.1	242.1	222.9	19.19	12.618		
3,700.0	3,676.6	3,678.3	3,627.4	11.9	12.4	64.46	211.8	419.1	253.5	233.7	19.74	12.838		
3,705.0	3,681.5	3,683.2	3,632.2	11.9	12.5	64.45	212.4	420.1	254.1	234.3	19.77	12.850		
3,800.0	3,775.4	3,777.5	3,723.7	12.3	12.9	64.31	223.3	440.2	266.1	245.7	20.36	13.066		
3,895.0	3,869.2	3,871.7	3,815.1	12.7	13.3	64.18	234.2	460.2	278.0	257.1	20.95	13.268		
3,900.0	3,874.1	3,876.7	3,819.9	12.7	13.3	64.17	234.7	461.3	278.7	257.7	20.99	13.278		
3,990.0	3,963.0	3,966.0	3,906.5	13.1	13.7	64.05	245.1	480.3	290.0	268.4	21.55	13.456		
4,000.0	3,972.9	3,975.9	3,916.2	13.1	13.8	64.04	246.2	482.4	291.3	269.6	21.61	13.475		
4,085.0	4,056.9	4,060.2	3,998.0	13.5	14.2	63.94	255.9	500.3	302.0	279.8	22.15	13.633		
4,100.0	4,071.7	4,075.1	4,012.4	13.6	14.2	63.92	257.7	503.5	303.9	281.6	22.24	13.660		
4,180.0	4,150.7	4,154.4	4,089.4	13.9	14.6	63.84	266.8	520.3	313.9	291.2	22.75	13.798		
4,200.0	4,170.4	4,174.3	4,108.7	14.0	14.7	63.82	269.1	524.6	316.5	293.6	22.88	13.832		
4,210.2	4,180.5	4,184.4	4,118.5	14.0	14.7	63.81	270.3	526.7	317.7	294.8	22.94	13.853		
4,275.0	4,244.6	4,248.7	4,180.8	14.3	15.0	63.76	277.7	540.4	326.1	302.7	23.35	13.964		
4,300.0	4,269.3	4,273.4	4,204.9	14.4	15.1	63.71	280.6	545.6	329.4	305.9	23.52	14.006		
4,370.0	4,338.7	4,342.8	4,272.1	14.7	15.5	63.50	288.6	560.4	338.9	314.9	24.00	14.120		
4,400.0	4,368.4	4,372.5	4,301.0	14.8	15.6	63.38	292.0	566.7	343.1	318.8	24.21	14.168		
4,465.0	4,433.0	4,436.7	4,363.3	15.0	15.9	63.05	299.4	580.4	352.4	327.7	24.69	14.274		
4,500.0	4,467.8	4,471.3	4,396.9	15.2	16.1	62.84	303.4	587.7	357.6	332.6	24.95	14.329		
4,560.0	4,527.5	4,530.5	4,454.3	15.4	16.3	62.43	310.3	600.3	366.7	341.2	25.41	14.427		
4,600.0	4,567.3	4,570.0	4,492.6	15.6	16.5	62.12	314.8	608.7	372.9	347.2	25.73	14.492		
4,655.0	4,622.1	4,624.2	4,545.2	15.8	16.8	61.65	321.1	620.2	381.7	355.6	26.18	14.584		
4,700.0	4,667.0	4,668.4	4,588.1	15.9	17.0	61.24	326.2	629.6	389.2	362.6	26.55	14.659		
4,750.0	4,716.9	4,717.5	4,635.8	16.1	17.2	60.76	331.9	640.1	397.6	370.7	26.97	14.745		
4,800.0	4,766.8	4,766.6	4,683.4	16.3	17.4	60.25	337.5	650.5	406.4	379.0	27.40	14.833		
4,845.0	4,811.7	4,810.7	4,726.2	16.4	17.6	59.76	342.6	659.9	414.5	386.7	27.78	14.917		
4,900.0	4,866.7	4,866.1	4,779.9	16.6	17.9	59.13	349.0	671.6	424.6	396.3	28.27	15.021		
4,940.0	4,906.6	4,911.0	4,823.6	16.7	18.1	58.62	353.9	680.7	431.8	403.2	28.65	15.073		

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1													Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft	
Reference Offset				Semi Major Axis		Offset Wellbore Centre				Rule Assigned: Distance				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,000.0	4,966.6	4,978.8	4,889.9	16.9	18.4	57.91	360.8	693.3	441.9	412.7	29.22	15.124		
5,035.0	5,001.6	5,018.6	4,928.9	17.0	18.6	57.52	364.4	700.0	447.5	417.9	29.53	15.152		
5,100.0	5,066.6	5,092.9	5,002.1	17.1	19.0	56.84	370.5	711.3	457.0	426.9	30.09	15.189		
5,110.4	5,077.0	5,104.8	5,013.9	17.1	19.0	91.03	371.4	712.9	458.4	428.2	30.16	15.198		
5,130.0	5,096.6	5,127.3	5,036.2	17.1	19.1	90.82	373.1	716.0	461.0	430.7	30.30	15.215		
5,200.0	5,166.6	5,208.2	5,116.3	17.2	19.5	90.16	378.3	725.5	469.2	438.5	30.76	15,254		
5,225.0	5,191.6	5,237.2	5,145.1	17.2	19.6	89.97	379.9	728.5	471.8	440.9	30.91	15.262		
5,300.0	5,266.6	5,324.7	5,232.2	17.2	20.0	89.49	383.8	735.8	478.1	446.8	31.32	15.266		
5,320.0	5,286.6	5,348.1	5,255.5	17.2	20.0	89.39	384.7	737.3	479.4	448.0	31.41	15.263		
5,400.0	5,366.6	5,441.9	5,349.2	17.3	20.4	89.10	387.2	741.9	483.3	451.6	31.73	15.235		
5,415.0	5,381.6	5,459.5	5,366.8	17.3	20.4	89.07	387.5	742.4	483.8	452.0	31.77	15.227		
5,500.0	5,466.6	5,558.7	5,465.9	17.3	20.6	88.98	388.2	743.8	485.0	453.1	31.90	15.201		
5,510.0	5,476.6	5,568.7	5,475.9	17.4	20.6	88.98	388.2	743.8	485.0	453.1	31.91	15.197		
5,600.0	5,566.6	5,658.7	5,565.9	17.4	20.7	88.98	388.2	743.8	485.0	453.0	32.01	15.152		
5,605.0	5,571.6	5,663.7	5,570.9	17.4	20.7	88.98	388.2	743.8	485.0	453.0	32.01	15.149		
5,700.0	5,666.6	5,758.7	5,665.9	17.5	20.7	88.98	388.2	743.8	485.0	452.9	32.12	15.097		
5,795.0	5,761.6	5,853.7	5,760.9	17.5	20.8	88.98	388.2	743.8	485.0	452.7	32.23	15.046		
5,800.0	5,766.6	5,858.7	5,765.9	17.5	20.8	88.98	388.2	743.8	485.0	452.7	32.24	15.043		
5,890.0	5,856.6	5,948.7	5,855.9	17.6	20.8	88.98	388.2	743.8	485.0	452.6	32.34	14.995		
5,900.0	5,866.6	5,958.7	5,865.9	17.6	20.8	88.98	388.2	743.8	485.0	452.6	32.35	14.989		
5,985.0	5,951.6	6,043.7	5,950.9	17.6	20.8	88.98	388.2	743.8	485.0	452.5	32.45	14.944		
6,000.0	5,966.6	6,058.7	5,965.9	17.6	20.8	88.98	388.2	743.8	485.0	452.5	32.47	14.936		
6,080.0	6,046.6	6,138.7	6,045.9	17.7	20.9	88.98	388.2	743.8	485.0	452.4	32.56	14.893		
6,100.0	6,066.6	6,158.7	6,065.9	17.7	20.9	88.98	388.2	743.8	485.0	452.4	32.59	14.883		
6,175.0	6,141.6	6,233.7	6,140.9	17.7	20.9	88.98	388.2	743.8	485.0	452.3	32.67	14.843		
6,200.0	6,166.6	6,258.7	6,165.9	17.7	20.9	88.98	388.2	743.8	485.0	452.3	32.70	14.829		
6,270.0	6,236.6	6,328.7	6,235.9	17.8	21.0	88.98	388.2	743.8	485.0	452.2	32.79	14.792		
6,300.0	6,266.6	6,358.7	6,265.9	17.8	21.0	88.98	388.2	743.8	485.0	452.2	32.82	14.776		
6,365.0	6,331.6	6,423.7	6,330.9	17.8	21.0	88.98	388.2	743.8	485.0	452.1	32.90	14.742		
6,400.0	6,366.6	6,458.7	6,365.9	17.8	21.0	88.98	388.2	743.8	485.0	452.0	32.94	14.724		
6,460.0	6,426.6	6,518.7	6,425.9	17.9	21.0	88.98	388.2	743.8	485.0	452.0	33.01	14.692		
6,500.0	6,466.6	6,558.7	6,465.9	17.9	21.1	88.98	388.2	743.8	485.0	451.9	33.06	14.671		
6,555.0	6,521.6	6,613.7	6,520.9	17.9	21.1	88.98	388.2	743.8	485.0	451.9	33.12	14.642		
6,600.0	6,566.6	6,658.7	6,565.9	18.0	21.1	88.98	388.2	743.8	485.0	451.8	33.17	14.619		
6,650.0	6,616.6	6,708.7	6,615.9	18.0	21.1	88.98	388.2	743.8	485.0	451.7	33.23	14.593		
6,700.0	6,666.6	6,758.7	6,665.9	18.0	21.2	88.98	388.2	743.8	485.0	451.7	33.29	14.567		
6,745.0	6,711.6	6,803.7	6,710.9	18.0	21.2	88.98	388.2	743.8	485.0	451.6	33.35	14.544		
6,800.0	6,766.6	6,858.7	6,765.9	18.1	21.2	88.98	388.2	743.8	485.0	451.6	33.41	14.515		
6,840.0	6,806.6	6,898.7	6,805.9	18.1	21.2	88.98	388.2	743.8	485.0	451.5	33.46	14.494		
6,900.0	6,866.6	6,958.7	6,865.9	18.1	21.2	88.98	388.2	743.8	485.0	451.4	33.53	14.464		
6,935.0	6,901.6	6,993.7	6,900.9	18.2	21.3	88.98	388.2	743.8	485.0	451.4	33.57	14.446		
7,000.0	6,966.6	7,058.7	6,965.9	18.2	21.3	88.98	388.2	743.8	485.0	451.3	33.65	14.412		
7,030.0	6,996.6	7,088.7	6,995.9	18.2	21.3	88.98	388.2	743.8	485.0	451.3	33.69	14.397		
7,100.0	7,066.6	7,158.7	7,065.9	18.2	21.3	88.98	388.2	743.8	485.0	451.2	33.77	14.361		
7,125.0	7,091.6	7,183.7	7,090.9	18.3	21.3	88.98	388.2	743.8	485.0	451.2	33.80	14.348		
7,200.0	7,166.6	7,258.7	7,165.9	18.3	21.4	88.98	388.2	743.8	485.0	451.1	33.89	14.310		
7,220.0	7,186.6	7,278.7	7,185.9	18.3	21.4	88.98	388.2	743.8	485.0	451.1	33.91	14.300		
7,300.0	7,266.6	7,358.7	7,265.9	18.4	21.4	88.98	388.2	743.8	485.0	451.0	34.01	14.259		
7,315.0	7,281.6	7,373.7	7,280.9	18.4	21.4	88.98	388.2	743.8	485.0	450.9	34.03	14.252		
7,400.0	7,366.6	7,458.7	7,365.9	18.4	21.5	88.98	388.2	743.8	485.0	450.8	34.13	14.209		
7,410.0	7,376.6	7,468.7	7,375.9	18.4	21.5	88.98	388.2	743.8	485.0	450.8	34.14	14.204		

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
7,500.0	7,466.6	7,558.7	7,465.9	18.5	21.5	88.98	388.2	743.8	485.0	450.7	34.25	14.159	
7,505.0	7,471.6	7,563.7	7,470.9	18.5	21.5	88.98	388.2	743.8	485.0	450.7	34.26	14.156	
7,600.0	7,566.6	7,658.7	7,565.9	18.5	21.6	88.98	388.2	743.8	485.0	450.6	34.37	14.109	
7,695.0	7,661.6	7,753.7	7,660.9	18.6	21.6	88.98	388.2	743.8	485.0	450.5	34.49	14.061	
7,700.0	7,666.6	7,758.7	7,665.9	18.6	21.6	88.98	388.2	743.8	485.0	450.5	34.50	14.059	
7,790.0	7,756.6	7,848.7	7,755.9	18.6	21.6	88.98	388.2	743.8	485.0	450.4	34.61	14.014	
7,800.0	7,766.6	7,858.7	7,765.9	18.7	21.6	88.98	388.2	743.8	485.0	450.4	34.62	14.009	
7,885.0	7,851.6	7,943.7	7,850.9	18.7	21.7	88.98	388.2	743.8	485.0	450.3	34.72	13.967	
7,900.0	7,866.6	7,958.7	7,865.9	18.7	21.7	88.98	388.2	743.8	485.0	450.2	34.74	13.960	
7,980.0	7,946.6	8,038.7	7,945.9	18.8	21.7	88.98	388.2	743.8	485.0	450.1	34.84	13.921	
8,000.0	7,966.6	8,058.7	7,965.9	18.8	21.7	88.98	388.2	743.8	485.0	450.1	34.86	13.911	
8,075.0	8,041.6	8,133.7	8,040.9	18.8	21.8	88.98	388.2	743.8	485.0	450.0	34.96	13.874	
8,100.0	8,066.6	8,158.7	8,065.9	18.8	21.8	88.98	388.2	743.8	485.0	450.0	34.99	13.862	
8,170.0	8,136.6	8,228.7	8,135.9	18.9	21.8	88.98	388.2	743.8	485.0	449.9	35.07	13.828	
8,200.0	8,166.6	8,258.7	8,165.9	18.9	21.8	88.98	388.2	743.8	485.0	449.9	35.11	13.813	
8,265.0	8,231.6	8,323.7	8,230.9	18.9	21.9	88.98	388.2	743.8	485.0	449.8	35.19	13.782	
8,300.0	8,266.6	8,358.7	8,265.9	19.0	21.9	88.98	388.2	743.8	485.0	449.7	35.23	13.765	
8,360.0	8,326.6	8,418.7	8,325.9	19.0	21.9	88.98	388.2	743.8	485.0	449.7	35.31	13.737	
8,400.0	8,366.6	8,458.7	8,365.9	19.0	21.9	88.98	388.2	743.8	485.0	449.6	35.35	13.718	
8,417.4	8,384.0	8,476.1	8,383.3	19.0	21.9	88.98	388.2	743.8	485.0	449.6	35.36	13.714	
8,450.0	8,416.6	8,509.2	8,416.4	19.0	21.9	-91.58	387.7	743.8	485.0	449.6	35.38	13.708	
8,455.0	8,421.6	8,514.3	8,421.6	19.0	21.9	-91.59	387.5	743.8	485.0	449.6	35.38	13.708	
8,500.0	8,466.3	8,560.4	8,467.5	19.1	22.0	-91.67	383.3	743.8	485.0	449.6	35.39	13.703	
8,550.0	8,515.4	8,611.7	8,517.9	19.1	22.0	-91.74	374.4	743.7	485.0	449.6	35.40	13.703	
8,600.0	8,563.5	8,663.0	8,567.5	19.2	22.0	-91.80	361.0	743.6	485.0	449.7	35.39	13.707	
8,645.0	8,605.7	8,709.3	8,610.9	19.2	22.0	-91.85	345.2	743.4	485.1	449.7	35.37	13.714	
8,650.0	8,610.3	8,714.4	8,615.7	19.2	22.0	-91.85	343.2	743.4	485.1	449.7	35.37	13.715	
8,700.0	8,655.3	8,765.8	8,662.1	19.3	22.1	-91.88	321.1	743.2	485.1	449.7	35.34	13.726	
8,740.0	8,689.8	8,807.0	8,697.7	19.3	22.1	-91.90	300.5	743.0	485.1	449.8	35.31	13.736	
8,750.0	8,698.3	8,817.3	8,706.4	19.3	22.1	-91.90	294.9	743.0	485.1	449.8	35.31	13.739	
8,800.0	8,738.8	8,868.7	8,748.1	19.4	22.1	-91.91	264.9	742.7	485.1	449.8	35.27	13.753	
8,835.0	8,765.6	8,904.7	8,775.7	19.4	22.1	-91.90	241.7	742.5	485.1	449.8	35.25	13.762	
8,850.0	8,776.7	8,920.2	8,787.0	19.5	22.1	-91.89	231.3	742.4	485.1	449.8	35.24	13.766	
8,900.0	8,811.6	8,971.6	8,822.7	19.5	22.2	-91.87	194.3	742.1	485.1	449.9	35.21	13.778	
8,930.0	8,830.9	9,002.5	8,842.5	19.5	22.2	-91.85	170.6	741.9	485.1	449.9	35.19	13.784	
8,950.0	8,843.2	9,023.0	8,854.9	19.6	22.2	-91.83	154.3	741.7	485.1	449.9	35.18	13.787	
9,000.0	8,871.3	9,074.4	8,883.4	19.6	22.3	-91.77	111.6	741.3	485.0	449.9	35.17	13.792	
9,025.0	8,884.0	9,100.0	8,896.2	19.6	22.3	-91.74	89.3	741.2	485.0	449.9	35.17	13.792	
9,050.0	8,895.7	9,125.7	8,908.0	19.7	22.3	-91.70	66.5	741.0	485.0	449.9	35.17	13.791	
9,100.0	8,916.2	9,176.9	8,928.4	19.7	22.4	-91.62	19.5	740.5	485.0	449.8	35.19	13.783	
9,120.0	8,923.3	9,197.4	8,935.3	19.7	22.4	-91.59	0.2	740.4	485.0	449.8	35.20	13.778	
9,150.0	8,932.7	9,228.1	8,944.4	19.8	22.4	-91.53	-29.1	740.1	485.0	449.8	35.23	13.768	
9,200.0	8,945.0	9,279.2	8,956.1	19.8	22.5	-91.42	-78.8	739.7	485.0	449.7	35.28	13.745	
9,215.0	8,947.9	9,294.6	8,958.8	19.8	22.5	-91.39	-93.9	739.5	485.0	449.6	35.31	13.736	
9,250.0	8,953.0	9,330.3	8,963.3	19.8	22.5	-91.30	-129.3	739.2	484.9	449.6	35.36	13.713	
9,300.0	8,956.7	9,381.2	8,966.0	19.9	22.6	-91.18	-180.1	738.8	484.9	449.4	35.47	13.673	
9,310.0	8,957.0	9,391.2	8,966.0	19.9	22.6	-91.15	-190.2	738.7	484.9	449.4	35.49	13.663	
9,316.5	8,957.0	9,397.7	8,966.0	19.9	22.6	-91.15	-196.7	738.6	484.9	449.4	35.51	13.657	
9,316.8	8,957.0	9,398.0	8,966.0	19.9	22.6	-91.15	-197.0	738.6	484.9	449.4	35.51	13.657	
9,400.0	8,957.1	9,481.2	8,966.1	19.9	22.7	-91.15	-280.2	737.9	484.9	449.1	35.77	13.557	
9,405.0	8,957.1	9,486.2	8,966.1	19.9	22.7	-91.15	-285.2	737.8	484.9	449.1	35.79	13.551	

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 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		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
9,500.0	8,957.2	9,581.2	8,966.2	20.0	22.8	-91.14	-380.2	737.0	484.9	448.8	36.14	13.417
9,595.0	8,957.3	9,676.2	8,966.3	20.1	23.0	-91.14	-475.2	736.2	484.9	448.4	36.56	13.265
9,600.0	8,957.3	9,681.2	8,966.3	20.1	23.0	-91.14	-480.2	736.1	484.9	448.3	36.58	13.257
9,690.0	8,957.4	9,771.2	8,966.4	20.1	23.2	-91.14	-570.2	735.3	484.9	447.9	37.02	13.097
9,700.0	8,957.4	9,781.2	8,966.4	20.2	23.2	-91.14	-580.2	735.2	484.9	447.8	37.07	13.080
9,785.0	8,957.5	9,866.2	8,966.5	20.2	23.4	-91.14	-665.2	734.5	484.9	447.4	37.54	12.917
9,800.0	8,957.6	9,881.2	8,966.5	20.3	23.4	-91.14	-680.2	734.3	484.9	447.3	37.63	12.888
9,880.0	8,957.6	9,961.2	8,966.6	20.4	23.6	-91.14	-760.2	733.6	484.9	446.8	38.11	12.725
9,900.0	8,957.7	9,981.2	8,966.6	20.4	23.6	-91.14	-780.2	733.5	484.9	446.7	38.23	12.684
9,975.0	8,957.8	10,056.2	8,966.7	20.5	23.8	-91.14	-855.2	732.8	484.9	446.2	38.72	12.523
10,000.0	8,957.8	10,081.2	8,966.7	20.5	23.9	-91.14	-880.2	732.6	484.9	446.0	38.89	12.470
10,070.0	8,957.9	10,151.2	8,966.8	20.6	24.0	-91.14	-950.2	731.9	484.9	445.5	39.38	12.315
10,100.0	8,957.9	10,181.2	8,966.8	20.7	24.1	-91.14	-980.2	731.7	484.9	445.3	39.59	12.248
10,165.0	8,958.0	10,246.2	8,966.9	20.8	24.3	-91.13	-1,045.2	731.1	484.9	444.8	40.08	12.100
10,200.0	8,958.0	10,281.2	8,966.9	20.9	24.4	-91.13	-1,080.2	730.8	484.9	444.6	40.34	12.021
10,260.0	8,958.1	10,341.2	8,967.0	21.0	24.6	-91.13	-1,140.2	730.3	484.9	444.1	40.81	11.881
10,300.0	8,958.1	10,381.2	8,967.0	21.1	24.7	-91.13	-1,180.2	729.9	484.9	443.8	41.13	11.789
10,355.0	8,958.2	10,436.2	8,967.1	21.2	24.9	-91.13	-1,235.1	729.4	484.9	443.3	41.59	11.660
10,400.0	8,958.2	10,481.2	8,967.1	21.3	25.0	-91.13	-1,280.1	729.0	484.9	443.0	41.97	11.555
10,450.0	8,958.3	10,531.2	8,967.2	21.4	25.2	-91.13	-1,330.1	728.6	484.9	442.5	42.40	11.437
10,500.0	8,958.4	10,581.2	8,967.2	21.5	25.3	-91.13	-1,380.1	728.1	484.9	442.1	42.84	11.320
10,545.0	8,958.4	10,626.2	8,967.3	21.7	25.5	-91.13	-1,425.1	727.7	484.9	441.7	43.25	11.213
10,600.0	8,958.5	10,681.2	8,967.3	21.8	25.7	-91.13	-1,480.1	727.3	484.9	441.2	43.75	11.085
10,640.0	8,958.5	10,721.2	8,967.3	22.0	25.8	-91.13	-1,520.1	726.9	484.9	440.8	44.12	10.991
10,700.0	8,958.6	10,781.2	8,967.4	22.1	26.0	-91.13	-1,580.1	726.4	484.9	440.2	44.69	10.851
10,735.0	8,958.6	10,816.2	8,967.4	22.3	26.2	-91.13	-1,615.1	726.1	484.9	439.9	45.03	10.770
10,800.0	8,958.7	10,881.2	8,967.5	22.5	26.4	-91.12	-1,680.1	725.5	484.9	439.3	45.66	10.620
10,830.0	8,958.7	10,911.2	8,967.5	22.6	26.5	-91.12	-1,710.1	725.2	484.9	439.0	45.96	10.551
10,900.0	8,958.8	10,981.2	8,967.6	22.9	26.8	-91.12	-1,780.1	724.6	484.9	438.3	46.66	10.392
10,925.0	8,958.8	11,006.2	8,967.6	23.0	26.9	-91.12	-1,805.1	724.4	484.9	438.0	46.92	10.336
11,000.0	8,958.9	11,081.2	8,967.7	23.3	27.2	-91.12	-1,880.1	723.7	484.9	437.2	47.69	10.168
11,020.0	8,958.9	11,101.2	8,967.7	23.4	27.3	-91.12	-1,900.1	723.5	484.9	437.0	47.90	10.123
11,100.0	8,959.0	11,181.2	8,967.8	23.7	27.7	-91.12	-1,980.1	722.8	484.9	436.2	48.75	9.948
11,115.0	8,959.1	11,196.2	8,967.8	23.8	27.7	-91.12	-1,995.1	722.7	484.9	436.0	48.91	9.915
11,200.0	8,959.2	11,281.2	8,967.9	24.2	28.1	-91.12	-2,080.1	721.9	484.9	435.1	49.83	9.732
11,210.0	8,959.2	11,291.2	8,967.9	24.2	28.1	-91.12	-2,090.1	721.9	484.9	435.0	49.94	9.711
11,300.0	8,959.3	11,381.2	8,968.0	24.6	28.6	-91.12	-2,180.1	721.1	484.9	434.0	50.93	9.521
11,305.0	8,959.3	11,386.2	8,968.0	24.7	28.6	-91.12	-2,185.1	721.0	484.9	433.9	50.99	9.511
11,400.0	8,959.4	11,481.2	8,968.1	25.1	29.0	-91.11	-2,280.1	720.2	484.9	432.9	52.05	9.316
11,495.0	8,959.5	11,576.2	8,968.2	25.6	29.5	-91.11	-2,375.1	719.3	484.9	431.8	53.14	9.125
11,500.0	8,959.5	11,581.2	8,968.2	25.7	29.5	-91.11	-2,380.1	719.3	484.9	431.7	53.20	9.116
11,590.0	8,959.6	11,671.2	8,968.3	26.2	30.0	-91.11	-2,470.1	718.5	484.9	430.7	54.24	8.940
11,600.0	8,959.6	11,681.2	8,968.3	26.2	30.0	-91.11	-2,480.1	718.4	484.9	430.6	54.36	8.921
11,685.0	8,959.7	11,766.2	8,968.4	26.7	30.4	-91.11	-2,565.1	717.6	484.9	429.6	55.36	8.759
11,700.0	8,959.7	11,781.2	8,968.4	26.8	30.5	-91.11	-2,580.1	717.5	484.9	429.4	55.54	8.731
11,780.0	8,959.8	11,861.2	8,968.5	27.2	30.9	-91.11	-2,660.1	716.8	484.9	428.4	56.50	8.583
11,800.0	8,959.8	11,881.2	8,968.5	27.3	31.0	-91.11	-2,680.1	716.6	484.9	428.2	56.74	8.547
11,875.0	8,959.9	11,956.2	8,968.6	27.8	31.4	-91.11	-2,755.1	716.0	484.9	427.3	57.65	8.412
11,900.0	8,960.0	11,981.2	8,968.6	27.9	31.6	-91.11	-2,780.1	715.7	484.9	427.0	57.95	8.368
11,970.0	8,960.0	12,051.2	8,968.7	28.3	31.9	-91.11	-2,850.1	715.1	484.9	426.1	58.81	8.246
12,000.0	8,960.1	12,081.2	8,968.7	28.5	32.1	-91.10	-2,880.1	714.9	484.9	425.8	59.18	8.195

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 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 Between Centres (usft)		Minimum Separation (usft)
								+N/-S (usft)	+E/-W (usft)	Between Ellipses (usft)	Separation Factor	Warning
12,065.0	8,960.1	12,146.2	8,968.8	28.9	32.5	-91.10	-2,945.1	714.3	484.9	425.0	59.98	8.085
12,100.0	8,960.2	12,181.2	8,968.8	29.1	32.7	-91.10	-2,980.1	714.0	484.9	424.5	60.42	8.027
12,160.0	8,960.2	12,241.2	8,968.9	29.5	33.0	-91.10	-3,040.1	713.4	484.9	423.8	61.17	7.928
12,200.0	8,960.3	12,281.2	8,968.9	29.8	33.2	-91.10	-3,080.1	713.1	484.9	423.3	61.67	7.864
12,255.0	8,960.4	12,336.2	8,969.0	30.1	33.5	-91.10	-3,135.1	712.6	484.9	422.6	62.36	7.776
12,300.0	8,960.4	12,381.2	8,969.0	30.4	33.8	-91.10	-3,180.1	712.2	484.9	422.0	62.93	7.706
12,350.0	8,960.5	12,431.2	8,969.1	30.7	34.1	-91.10	-3,230.1	711.8	484.9	421.4	63.57	7.629
12,400.0	8,960.5	12,481.2	8,969.1	31.0	34.4	-91.10	-3,280.1	711.3	484.9	420.7	64.21	7.553
12,445.0	8,960.6	12,526.2	8,969.2	31.3	34.6	-91.10	-3,325.1	710.9	484.9	420.2	64.79	7.485
12,500.0	8,960.6	12,581.2	8,969.2	31.7	34.9	-91.10	-3,380.1	710.4	484.9	419.4	65.49	7.404
12,540.0	8,960.7	12,621.2	8,969.3	31.9	35.2	-91.10	-3,420.1	710.1	484.9	418.9	66.01	7.346
12,600.0	8,960.8	12,681.2	8,969.3	32.3	35.5	-91.10	-3,480.1	709.5	484.9	418.2	66.79	7.261
12,635.0	8,960.8	12,716.2	8,969.4	32.5	35.7	-91.09	-3,515.1	709.2	484.9	417.7	67.25	7.211
12,700.0	8,960.9	12,781.2	8,969.4	33.0	36.1	-91.09	-3,580.1	708.7	484.9	416.8	68.10	7.121
12,730.0	8,960.9	12,811.2	8,969.5	33.2	36.3	-91.09	-3,610.1	708.4	484.9	416.5	68.49	7.080
12,800.0	8,961.0	12,881.2	8,969.5	33.6	36.7	-91.09	-3,680.1	707.8	484.9	415.5	69.41	6.986
12,825.0	8,961.0	12,906.2	8,969.5	33.8	36.9	-91.09	-3,705.1	707.5	484.9	415.2	69.74	6.953
12,900.0	8,961.1	12,981.2	8,969.6	34.3	37.4	-91.09	-3,780.0	706.9	484.9	414.2	70.74	6.856
12,920.0	8,961.1	13,001.2	8,969.6	34.4	37.5	-91.09	-3,800.0	706.7	484.9	413.9	71.00	6.830
13,000.0	8,961.2	13,081.2	8,969.7	35.0	38.0	-91.09	-3,880.0	706.0	485.0	412.9	72.07	6.729
13,015.0	8,961.2	13,096.2	8,969.7	35.1	38.1	-91.09	-3,895.0	705.9	485.0	412.7	72.27	6.710
13,100.0	8,961.3	13,181.2	8,969.8	35.7	38.6	-91.09	-3,980.0	705.1	485.0	411.5	73.41	6.606
13,110.0	8,961.3	13,191.2	8,969.8	35.7	38.7	-91.09	-3,990.0	705.0	485.0	411.4	73.54	6.594
13,200.0	8,961.4	13,281.2	8,969.9	36.3	39.2	-91.09	-4,080.0	704.2	485.0	410.2	74.75	6.487
13,205.0	8,961.4	13,286.2	8,969.9	36.4	39.3	-91.09	-4,085.0	704.2	485.0	410.1	74.82	6.482
13,300.0	8,961.6	13,381.2	8,970.0	37.0	39.9	-91.08	-4,180.0	703.3	485.0	408.8	76.11	6.372
13,395.0	8,961.7	13,476.2	8,970.1	37.7	40.5	-91.08	-4,275.0	702.5	485.0	407.6	77.40	6.266
13,400.0	8,961.7	13,481.2	8,970.1	37.7	40.5	-91.08	-4,280.0	702.5	485.0	407.5	77.47	6.260
13,490.0	8,961.8	13,571.2	8,970.2	38.3	41.1	-91.08	-4,370.0	701.7	485.0	406.3	78.69	6.163
13,500.0	8,961.8	13,581.2	8,970.2	38.4	41.1	-91.08	-4,380.0	701.6	485.0	406.1	78.83	6.152
13,585.0	8,961.9	13,666.2	8,970.3	39.0	41.7	-91.08	-4,465.0	700.8	485.0	405.0	80.00	6.062
13,600.0	8,961.9	13,681.2	8,970.3	39.1	41.8	-91.08	-4,480.0	700.7	485.0	404.8	80.20	6.047
13,680.0	8,962.0	13,761.2	8,970.4	39.7	42.3	-91.08	-4,560.0	700.0	485.0	403.7	81.30	5.965
13,700.0	8,962.0	13,781.2	8,970.4	39.8	42.4	-91.08	-4,580.0	699.8	485.0	403.4	81.58	5.945
13,775.0	8,962.1	13,856.2	8,970.5	40.3	42.9	-91.08	-4,655.0	699.1	485.0	402.3	82.62	5.870
13,800.0	8,962.1	13,881.2	8,970.5	40.5	43.1	-91.08	-4,680.0	698.9	485.0	402.0	82.96	5.846
13,870.0	8,962.2	13,951.2	8,970.6	41.0	43.6	-91.07	-4,750.0	698.3	485.0	401.0	83.93	5.778
13,900.0	8,962.2	13,981.2	8,970.6	41.2	43.8	-91.07	-4,780.0	698.0	485.0	400.6	84.35	5.749
13,965.0	8,962.3	14,046.2	8,970.7	41.7	44.2	-91.07	-4,845.0	697.5	485.0	399.7	85.25	5.688
14,000.0	8,962.4	14,081.2	8,970.7	41.9	44.4	-91.07	-4,880.0	697.1	485.0	399.2	85.74	5.656
14,060.0	8,962.4	14,141.2	8,970.8	42.3	44.8	-91.07	-4,940.0	696.6	485.0	398.4	86.58	5.601
14,100.0	8,962.5	14,181.2	8,970.8	42.6	45.1	-91.07	-4,980.0	696.3	485.0	397.8	87.14	5.566
14,155.0	8,962.5	14,236.2	8,970.9	43.0	45.5	-91.07	-5,035.0	695.8	485.0	397.1	87.91	5.517
14,200.0	8,962.6	14,281.2	8,970.9	43.3	45.8	-91.07	-5,080.0	695.4	485.0	396.4	88.54	5.477
14,250.0	8,962.6	14,331.2	8,971.0	43.7	46.1	-91.07	-5,130.0	694.9	485.0	395.7	89.24	5.434
14,300.0	8,962.7	14,381.2	8,971.0	44.0	46.4	-91.07	-5,180.0	694.5	485.0	395.0	89.94	5.392
14,345.0	8,962.7	14,426.2	8,971.1	44.4	46.7	-91.07	-5,225.0	694.1	485.0	394.4	90.58	5.354
14,400.0	8,962.8	14,481.2	8,971.1	44.8	47.1	-91.07	-5,280.0	693.6	485.0	393.6	91.35	5.309
14,440.0	8,962.9	14,521.2	8,971.2	45.0	47.4	-91.07	-5,320.0	693.2	485.0	393.0	91.92	5.276
14,500.0	8,962.9	14,581.2	8,971.2	45.5	47.8	-91.06	-5,380.0	692.7	485.0	392.2	92.76	5.228
14,535.0	8,963.0	14,616.2	8,971.3	45.7	48.0	-91.06	-5,415.0	692.4	485.0	391.7	93.26	5.200

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 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	
14,600.0	8,963.0	14,681.2	8,971.3	46.2	48.5	-91.06	-5,480.0	691.8	485.0	390.8	94.18	5.149		
14,630.0	8,963.1	14,711.2	8,971.4	46.4	48.7	-91.06	-5,510.0	691.6	485.0	390.4	94.61	5.126		
14,700.0	8,963.2	14,781.2	8,971.4	46.9	49.2	-91.06	-5,580.0	690.9	485.0	389.4	95.60	5.073		
14,725.0	8,963.2	14,806.2	8,971.5	47.1	49.3	-91.06	-5,605.0	690.7	485.0	389.0	95.96	5.054		
14,800.0	8,963.3	14,881.2	8,971.5	47.6	49.9	-91.06	-5,680.0	690.1	485.0	387.9	97.02	4.999		
14,820.0	8,963.3	14,901.2	8,971.6	47.8	50.0	-91.06	-5,700.0	689.9	485.0	387.7	97.31	4.984		
14,900.0	8,963.4	14,981.2	8,971.6	48.4	50.5	-91.06	-5,780.0	689.2	485.0	386.5	98.45	4.926		
14,915.0	8,963.4	14,996.2	8,971.7	48.5	50.6	-91.06	-5,795.0	689.0	485.0	386.3	98.66	4.915		
15,000.0	8,963.5	15,081.2	8,971.7	49.1	51.2	-91.06	-5,880.0	688.3	485.0	385.1	99.88	4.856		
15,010.0	8,963.5	15,091.2	8,971.7	49.1	51.3	-91.06	-5,890.0	688.2	485.0	385.0	100.02	4.849		
15,100.0	8,963.6	15,181.2	8,971.8	49.8	51.9	-91.06	-5,980.0	687.4	485.0	383.7	101.31	4.787		
15,105.0	8,963.6	15,186.2	8,971.8	49.8	52.0	-91.06	-5,985.0	687.4	485.0	383.6	101.38	4.784		
15,200.0	8,963.7	15,281.2	8,971.9	50.5	52.6	-91.05	-6,080.0	686.5	485.0	382.2	102.74	4.720		
15,295.0	8,963.8	15,376.2	8,972.0	51.2	53.3	-91.05	-6,175.0	685.7	485.0	380.9	104.11	4.658		
15,300.0	8,963.8	15,381.2	8,972.0	51.3	53.3	-91.05	-6,180.0	685.6	485.0	380.8	104.18	4.655		
15,390.0	8,963.9	15,471.2	8,972.1	51.9	54.0	-91.05	-6,269.9	684.8	485.0	379.5	105.48	4.598		
15,400.0	8,963.9	15,481.2	8,972.1	52.0	54.0	-91.05	-6,279.9	684.7	485.0	379.4	105.62	4.592		
15,485.0	8,964.0	15,566.2	8,972.2	52.6	54.6	-91.05	-6,364.9	684.0	485.0	378.1	106.85	4.539		
15,500.0	8,964.1	15,581.2	8,972.2	52.7	54.7	-91.05	-6,379.9	683.9	485.0	377.9	107.06	4.530		
15,580.0	8,964.2	15,661.2	8,972.3	53.3	55.3	-91.05	-6,459.9	683.2	485.0	376.8	108.22	4.481		
15,600.0	8,964.2	15,681.2	8,972.3	53.4	55.4	-91.05	-6,479.9	683.0	485.0	376.5	108.51	4.470		
15,675.0	8,964.3	15,756.2	8,972.4	54.0	56.0	-91.05	-6,554.9	682.3	485.0	375.4	109.59	4.425		
15,700.0	8,964.3	15,781.2	8,972.4	54.2	56.1	-91.05	-6,579.9	682.1	485.0	375.0	109.95	4.411		
15,770.0	8,964.4	15,851.2	8,972.5	54.7	56.6	-91.04	-6,649.9	681.5	485.0	374.0	110.97	4.370		
15,800.0	8,964.4	15,881.2	8,972.5	54.9	56.8	-91.04	-6,679.9	681.2	485.0	373.6	111.40	4.353		
15,865.0	8,964.5	15,946.2	8,972.6	55.4	57.3	-91.04	-6,744.9	680.6	485.0	372.6	112.35	4.317		
15,900.0	8,964.5	15,981.2	8,972.6	55.6	57.6	-91.04	-6,779.9	680.3	485.0	372.1	112.85	4.297		
15,960.0	8,964.6	16,041.2	8,972.7	56.1	58.0	-91.04	-6,839.9	679.8	485.0	371.3	113.73	4.264		
16,000.0	8,964.6	16,081.2	8,972.7	56.4	58.3	-91.04	-6,879.9	679.4	485.0	370.7	114.31	4.243		
16,055.0	8,964.7	16,136.2	8,972.8	56.8	58.7	-91.04	-6,934.9	678.9	485.0	369.9	115.11	4.213		
16,100.0	8,964.7	16,181.2	8,972.8	57.1	59.0	-91.04	-6,979.9	678.5	485.0	369.2	115.76	4.189		
16,150.0	8,964.8	16,231.2	8,972.9	57.5	59.3	-91.04	-7,029.9	678.1	485.0	368.5	116.49	4.163		
16,200.0	8,964.9	16,281.2	8,972.9	57.8	59.7	-91.04	-7,079.9	677.7	485.0	367.8	117.22	4.137		
16,245.0	8,964.9	16,326.2	8,973.0	58.2	60.0	-91.04	-7,124.9	677.3	485.0	367.1	117.88	4.114		
16,300.0	8,965.0	16,381.2	8,973.0	58.6	60.4	-91.04	-7,179.9	676.8	485.0	366.3	118.68	4.087		
16,340.0	8,965.0	16,421.2	8,973.1	58.9	60.7	-91.04	-7,219.9	676.4	485.0	365.7	119.26	4.067		
16,400.0	8,965.1	16,481.2	8,973.1	59.3	61.1	-91.03	-7,279.9	675.9	485.0	364.9	120.14	4.037		
16,435.0	8,965.1	16,516.2	8,973.2	59.6	61.4	-91.03	-7,314.9	675.6	485.0	364.3	120.65	4.020		
16,500.0	8,965.2	16,581.2	8,973.2	60.1	61.8	-91.03	-7,379.9	675.0	485.0	363.4	121.60	3.988		
16,530.0	8,965.2	16,611.2	8,973.3	60.3	62.0	-91.03	-7,409.9	674.7	485.0	363.0	122.04	3.974		
16,600.0	8,965.3	16,681.2	8,973.3	60.8	62.6	-91.03	-7,479.9	674.1	485.0	361.9	123.06	3.941		
16,625.0	8,965.3	16,706.2	8,973.4	61.0	62.7	-91.03	-7,504.9	673.9	485.0	361.6	123.43	3.929		
16,700.0	8,965.4	16,781.2	8,973.4	61.5	63.3	-91.03	-7,579.9	673.2	485.0	360.5	124.53	3.895		
16,720.0	8,965.5	16,801.2	8,973.5	61.7	63.4	-91.03	-7,599.9	673.1	485.0	360.2	124.82	3.885		
16,800.0	8,965.5	16,881.2	8,973.6	62.3	64.0	-91.03	-7,679.9	672.3	485.0	359.0	125.99	3.849		
16,815.0	8,965.6	16,896.2	8,973.6	62.4	64.1	-91.03	-7,694.9	672.2	485.0	358.8	126.21	3.843		
16,900.0	8,965.7	16,981.2	8,973.7	63.0	64.7	-91.03	-7,779.9	671.5	485.0	357.5	127.46	3.805		
16,910.0	8,965.7	16,991.2	8,973.7	63.1	64.8	-91.03	-7,789.9	671.4	485.0	357.4	127.61	3.801		
17,000.0	8,965.8	17,081.2	8,973.8	63.8	65.4	-91.02	-7,879.9	670.6	485.0	356.1	128.93	3.762		
17,005.0	8,965.8	17,086.2	8,973.8	63.8	65.5	-91.02	-7,884.9	670.5	485.0	356.0	129.01	3.759		
17,100.0	8,965.9	17,181.2	8,973.9	64.5	66.2	-91.02	-7,979.9	669.7	485.0	354.6	130.40	3.719		

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 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					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	
17,195.0	8,966.0	17,276.2	8,973.9	65.2	66.8	-91.02	-8,074.9	668.9	485.0	353.2	131.80	3.680		
17,200.0	8,966.0	17,281.2	8,974.0	65.2	66.9	-91.02	-8,079.9	668.8	485.0	353.1	131.87	3.678		
17,290.0	8,966.1	17,371.2	8,974.0	65.9	67.5	-91.02	-8,169.9	668.0	485.0	351.8	133.20	3.641		
17,300.0	8,966.1	17,381.2	8,974.1	66.0	67.6	-91.02	-8,179.9	667.9	485.0	351.6	133.35	3.637		
17,385.0	8,966.2	17,466.2	8,974.1	66.6	68.2	-91.02	-8,264.9	667.2	485.0	350.4	134.60	3.603		
17,400.0	8,966.2	17,481.2	8,974.2	66.7	68.3	-91.02	-8,279.9	667.0	485.0	350.2	134.82	3.597		
17,480.0	8,966.3	17,561.2	8,974.2	67.3	68.9	-91.02	-8,359.9	666.3	485.0	349.0	136.00	3.566		
17,500.0	8,966.3	17,581.2	8,974.3	67.5	69.1	-91.02	-8,379.9	666.1	485.0	348.7	136.30	3.558		
17,575.0	8,966.4	17,656.2	8,974.3	68.0	69.6	-91.02	-8,454.9	665.5	485.0	347.6	137.41	3.530		
17,600.0	8,966.5	17,681.2	8,974.4	68.2	69.8	-91.02	-8,479.9	665.3	485.0	347.2	137.78	3.520		
17,670.0	8,966.5	17,751.2	8,974.4	68.7	70.3	-91.01	-8,549.9	664.6	485.0	346.2	138.81	3.494		
17,700.0	8,966.6	17,781.2	8,974.5	69.0	70.5	-91.01	-8,579.9	664.4	485.0	345.7	139.25	3.483		
17,765.0	8,966.7	17,846.2	8,974.5	69.5	71.0	-91.01	-8,644.9	663.8	485.0	344.8	140.21	3.459		
17,800.0	8,966.7	17,881.2	8,974.6	69.7	71.2	-91.01	-8,679.9	663.5	485.0	344.3	140.73	3.446		
17,860.0	8,966.8	17,941.2	8,974.6	70.2	71.7	-91.01	-8,739.9	663.0	485.0	343.4	141.62	3.425		
17,900.0	8,966.8	17,981.2	8,974.7	70.5	72.0	-91.01	-8,779.8	662.6	485.0	342.8	142.21	3.410		
17,955.0	8,966.9	18,036.2	8,974.7	70.9	72.4	-91.01	-8,834.8	662.1	485.0	342.0	143.03	3.391		
18,000.0	8,966.9	18,081.2	8,974.8	71.2	72.7	-91.01	-8,879.8	661.7	485.0	341.3	143.69	3.375		
18,050.0	8,967.0	18,131.2	8,974.8	71.6	73.1	-91.01	-8,929.8	661.3	485.0	340.6	144.43	3.358		
18,100.0	8,967.0	18,181.2	8,974.9	72.0	73.4	-91.01	-8,979.8	660.8	485.0	339.8	145.18	3.341		
18,145.0	8,967.1	18,226.2	8,974.9	72.3	73.8	-91.01	-9,024.8	660.4	485.0	339.2	145.84	3.326		
18,200.0	8,967.1	18,281.2	8,975.0	72.7	74.2	-91.01	-9,079.8	660.0	485.0	338.3	146.66	3.307		
18,240.0	8,967.2	18,321.2	8,975.0	73.0	74.5	-91.00	-9,119.8	659.6	485.0	337.8	147.25	3.294		
18,300.0	8,967.3	18,381.2	8,975.1	73.4	74.9	-91.00	-9,179.8	659.1	485.0	336.9	148.14	3.274		
18,335.0	8,967.3	18,416.2	8,975.1	73.7	75.2	-91.00	-9,214.8	658.8	485.0	336.3	148.66	3.263		
18,400.0	8,967.4	18,481.2	8,975.2	74.2	75.6	-91.00	-9,279.8	658.2	485.0	335.4	149.63	3.241		
18,430.0	8,967.4	18,511.2	8,975.2	74.4	75.9	-91.00	-9,309.8	657.9	485.0	334.9	150.07	3.232		
18,500.0	8,967.5	18,581.2	8,975.3	74.9	76.4	-91.00	-9,379.8	657.3	485.0	333.9	151.11	3.210		
18,525.0	8,967.5	18,606.2	8,975.3	75.1	76.6	-91.00	-9,404.8	657.1	485.0	333.5	151.48	3.202		
18,600.0	8,967.6	18,681.2	8,975.4	75.7	77.1	-91.00	-9,479.8	656.4	485.0	332.4	152.60	3.178		
18,620.0	8,967.6	18,701.2	8,975.4	75.8	77.2	-91.00	-9,499.8	656.2	485.0	332.1	152.90	3.172		
18,700.0	8,967.7	18,781.2	8,975.5	76.4	77.8	-91.00	-9,579.8	655.5	485.0	330.9	154.09	3.148		
18,715.0	8,967.7	18,796.2	8,975.5	76.6	77.9	-91.00	-9,594.8	655.4	485.0	330.7	154.31	3.143		
18,800.0	8,967.8	18,881.2	8,975.6	77.2	78.6	-91.00	-9,679.8	654.6	485.0	329.4	155.57	3.118		
18,810.0	8,967.8	18,891.2	8,975.6	77.3	78.6	-91.00	-9,689.8	654.5	485.0	329.3	155.72	3.115		
18,900.0	8,967.9	18,981.2	8,975.7	77.9	79.3	-90.99	-9,779.8	653.8	485.0	328.0	157.06	3.088		
18,905.0	8,968.0	18,986.2	8,975.7	78.0	79.3	-90.99	-9,784.8	653.7	485.0	327.9	157.14	3.087		
19,000.0	8,968.1	19,081.2	8,975.8	78.7	80.0	-90.99	-9,879.8	652.9	485.0	326.5	158.55	3.059		
19,095.0	8,968.2	19,176.2	8,975.9	79.4	80.7	-90.99	-9,974.8	652.0	485.0	325.0	159.97	3.032		
19,100.0	8,968.2	19,181.2	8,975.9	79.4	80.8	-90.99	-9,979.8	652.0	485.0	325.0	160.04	3.031		
19,190.0	8,968.3	19,271.2	8,976.0	80.1	81.4	-90.99	-10,069.8	651.2	485.0	323.6	161.38	3.005		
19,200.0	8,968.3	19,281.2	8,976.0	80.2	81.5	-90.99	-10,079.8	651.1	485.0	323.5	161.53	3.003		
19,285.0	8,968.4	19,366.2	8,976.1	80.8	82.1	-90.99	-10,164.8	650.3	485.0	322.2	162.80	2.979		
19,300.0	8,968.4	19,381.2	8,976.1	80.9	82.3	-90.99	-10,179.8	650.2	485.0	322.0	163.03	2.975		
19,380.0	8,968.5	19,461.2	8,976.1	81.5	82.9	-90.99	-10,259.8	649.5	485.0	320.8	164.22	2.953		
19,400.0	8,968.5	19,481.2	8,976.2	81.7	83.0	-90.99	-10,279.8	649.3	485.0	320.5	164.52	2.948		
19,475.0	8,968.6	19,556.2	8,976.2	82.3	83.6	-90.99	-10,354.8	648.7	485.0	319.4	165.64	2.928		
19,500.0	8,968.6	19,581.2	8,976.3	82.4	83.7	-90.98	-10,379.8	648.4	485.0	319.0	166.01	2.922		
19,570.0	8,968.7	19,651.2	8,976.3	83.0	84.3	-90.98	-10,449.8	647.8	485.0	318.0	167.06	2.903		
19,600.0	8,968.7	19,681.2	8,976.4	83.2	84.5	-90.98	-10,479.8	647.6	485.0	317.5	167.50	2.896		
19,665.0	8,968.8	19,746.2	8,976.4	83.7	85.0	-90.98	-10,544.8	647.0	485.0	316.5	168.48	2.879		

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 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	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
19,700.0	8,968.9	19,781.2	8,976.5	83.9	85.2	-90.98	-10,579.8	646.7	485.0	316.0	169.00	2.870
19,760.0	8,968.9	19,841.2	8,976.5	84.4	85.7	-90.98	-10,639.8	646.1	485.0	315.1	169.90	2.855
19,800.0	8,969.0	19,881.2	8,976.6	84.7	86.0	-90.98	-10,679.8	645.8	485.0	314.5	170.49	2.845
19,855.0	8,969.0	19,936.2	8,976.6	85.1	86.4	-90.98	-10,734.8	645.3	485.0	313.7	171.32	2.831
19,900.0	8,969.1	19,981.2	8,976.7	85.5	86.7	-90.98	-10,779.8	644.9	485.0	313.0	171.99	2.820
19,950.0	8,969.1	20,031.2	8,976.7	85.8	87.1	-90.98	-10,829.8	644.5	485.0	312.3	172.74	2.808
20,000.0	8,969.2	20,081.2	8,976.8	86.2	87.4	-90.98	-10,879.8	644.0	485.0	311.5	173.49	2.796
20,045.0	8,969.3	20,126.2	8,976.8	86.5	87.8	-90.98	-10,924.8	643.6	485.0	310.9	174.16	2.785
20,100.0	8,969.3	20,181.2	8,976.9	87.0	88.2	-90.98	-10,979.8	643.1	485.0	310.0	174.98	2.772
20,140.0	8,969.4	20,221.2	8,976.9	87.3	88.5	-90.97	-11,019.8	642.8	485.0	309.4	175.58	2.762
20,200.0	8,969.4	20,281.2	8,977.0	87.7	88.9	-90.97	-11,079.8	642.2	485.0	308.6	176.48	2.748
20,235.0	8,969.5	20,316.2	8,977.0	88.0	89.2	-90.97	-11,114.8	641.9	485.0	308.0	177.00	2.740
20,300.0	8,969.5	20,381.2	8,977.1	88.5	89.7	-90.97	-11,179.8	641.4	485.0	307.1	177.98	2.725
20,330.0	8,969.6	20,411.2	8,977.1	88.7	89.9	-90.97	-11,209.8	641.1	485.0	306.6	178.43	2.718
20,400.0	8,969.7	20,481.2	8,977.2	89.2	90.4	-90.97	-11,279.8	640.5	485.0	305.6	179.47	2.703
20,425.0	8,969.7	20,506.2	8,977.2	89.4	90.6	-90.97	-11,304.7	640.2	485.0	305.2	179.85	2.697
20,500.0	8,969.8	20,581.2	8,977.3	90.0	91.2	-90.97	-11,379.7	639.6	485.0	304.1	180.97	2.680
20,520.0	8,969.8	20,601.2	8,977.3	90.1	91.3	-90.97	-11,399.7	639.4	485.0	303.8	181.27	2.676
20,600.0	8,969.9	20,681.2	8,977.4	90.7	91.9	-90.97	-11,479.7	638.7	485.0	302.6	182.47	2.658
20,615.0	8,969.9	20,696.2	8,977.4	90.8	92.0	-90.97	-11,494.7	638.6	485.0	302.3	182.70	2.655
20,700.0	8,970.0	20,781.2	8,977.5	91.5	92.6	-90.97	-11,579.7	637.8	485.0	301.1	183.97	2.636
20,710.0	8,970.0	20,791.2	8,977.5	91.5	92.7	-90.97	-11,589.7	637.7	485.0	300.9	184.12	2.634
20,800.0	8,970.1	20,881.2	8,977.6	92.2	93.4	-90.96	-11,679.7	636.9	485.0	299.6	185.47	2.615
20,805.0	8,970.1	20,886.2	8,977.6	92.3	93.4	-90.96	-11,684.7	636.9	485.0	299.5	185.55	2.614
20,900.0	8,970.2	20,981.2	8,977.7	93.0	94.1	-90.96	-11,779.7	636.0	485.0	298.1	186.97	2.594
20,995.0	8,970.3	21,076.2	8,977.8	93.7	94.8	-90.96	-11,874.7	635.2	485.0	296.6	188.40	2.575
21,000.0	8,970.3	21,081.2	8,977.8	93.7	94.9	-90.96	-11,879.7	635.2	485.0	296.6	188.47	2.574
21,090.0	8,970.4	21,171.2	8,977.9	94.4	95.5	-90.96	-11,969.7	634.4	485.0	295.2	189.82	2.555
21,100.0	8,970.5	21,181.2	8,977.9	94.5	95.6	-90.96	-11,979.7	634.3	485.0	295.1	189.97	2.553
21,185.0	8,970.6	21,266.2	8,978.0	95.1	96.3	-90.96	-12,064.7	633.5	485.0	293.8	191.25	2.536
21,200.0	8,970.6	21,281.2	8,978.0	95.2	96.4	-90.96	-12,079.7	633.4	485.0	293.6	191.48	2.533
21,280.0	8,970.7	21,361.2	8,978.1	95.8	97.0	-90.96	-12,159.7	632.7	485.0	292.4	192.68	2.517
21,300.0	8,970.7	21,381.2	8,978.1	96.0	97.1	-90.96	-12,179.7	632.5	485.0	292.1	192.98	2.513
21,375.0	8,970.8	21,456.2	8,978.2	96.6	97.7	-90.95	-12,254.7	631.8	485.0	290.9	194.11	2.499
21,400.0	8,970.8	21,481.2	8,978.2	96.8	97.9	-90.95	-12,279.7	631.6	485.0	290.6	194.48	2.494
21,470.0	8,970.9	21,551.2	8,978.3	97.3	98.4	-90.95	-12,349.7	631.0	485.0	289.5	195.53	2.481
21,500.0	8,970.9	21,581.2	8,978.3	97.5	98.6	-90.95	-12,379.7	630.7	485.0	289.1	195.98	2.475
21,565.0	8,971.0	21,646.2	8,978.3	98.0	99.1	-90.95	-12,444.7	630.2	485.0	288.1	196.96	2.463
21,600.0	8,971.0	21,681.2	8,978.4	98.3	99.4	-90.95	-12,479.7	629.8	485.0	287.6	197.49	2.456
21,660.0	8,971.1	21,741.2	8,978.4	98.7	99.8	-90.95	-12,539.7	629.3	485.0	286.7	198.39	2.445
21,700.0	8,971.1	21,781.2	8,978.5	99.0	100.1	-90.95	-12,579.7	629.0	485.0	286.1	198.99	2.438
21,755.0	8,971.2	21,836.2	8,978.5	99.4	100.5	-90.95	-12,634.7	628.5	485.0	285.2	199.82	2.427
21,800.0	8,971.3	21,881.2	8,978.6	99.8	100.8	-90.95	-12,679.7	628.1	485.0	284.6	200.50	2.419
21,850.0	8,971.3	21,931.2	8,978.6	100.2	101.2	-90.95	-12,729.7	627.6	485.0	283.8	201.25	2.410
21,900.0	8,971.4	21,981.2	8,978.7	100.5	101.6	-90.95	-12,779.7	627.2	485.0	283.0	202.00	2.401
21,945.0	8,971.4	22,026.2	8,978.7	100.9	101.9	-90.95	-12,824.7	626.8	485.1	282.4	202.68	2.393
22,000.0	8,971.5	22,081.2	8,978.8	101.3	102.3	-90.94	-12,879.7	626.3	485.1	281.5	203.51	2.383
22,040.0	8,971.5	22,121.2	8,978.8	101.6	102.6	-90.94	-12,919.7	625.9	485.1	280.9	204.11	2.376
22,100.0	8,971.6	22,181.2	8,978.9	102.0	103.1	-90.94	-12,979.7	625.4	485.1	280.0	205.01	2.366
22,135.0	8,971.6	22,216.2	8,978.9	102.3	103.4	-90.94	-13,014.7	625.1	485.1	279.5	205.54	2.360
22,200.0	8,971.7	22,281.2	8,979.0	102.8	103.8	-90.94	-13,079.7	624.5	485.1	278.5	206.52	2.349

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 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)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
22,230.0	8,971.8	22,311.2	8,979.0	103.0	104.1	-90.94	-13,109.7	624.3	485.1	278.1	206.97	2.344		
22,300.0	8,971.8	22,381.2	8,979.1	103.6	104.6	-90.94	-13,179.7	623.6	485.1	277.0	208.02	2.332		
22,325.0	8,971.9	22,406.2	8,979.1	103.7	104.8	-90.94	-13,204.7	623.4	485.1	276.7	208.40	2.328		
22,400.0	8,971.9	22,481.2	8,979.2	104.3	105.3	-90.94	-13,279.7	622.8	485.1	275.5	209.53	2.315		
22,420.0	8,972.0	22,501.2	8,979.2	104.5	105.5	-90.94	-13,299.7	622.6	485.1	275.2	209.83	2.312		
22,500.0	8,972.1	22,581.2	8,979.3	105.1	106.1	-90.94	-13,379.7	621.9	485.1	274.0	211.03	2.298		
22,515.0	8,972.1	22,596.2	8,979.3	105.2	106.2	-90.94	-13,394.7	621.7	485.1	273.8	211.26	2.296		
22,600.0	8,972.2	22,681.2	8,979.4	105.8	106.8	-90.94	-13,479.7	621.0	485.1	272.5	212.54	2.282		
22,610.0	8,972.2	22,691.2	8,979.4	105.9	106.9	-90.94	-13,489.7	620.9	485.1	272.4	212.69	2.281		
22,700.0	8,972.3	22,781.2	8,979.5	106.6	107.6	-90.93	-13,579.7	620.1	485.1	271.0	214.05	2.266		
22,705.0	8,972.3	22,786.2	8,979.5	106.6	107.6	-90.93	-13,584.7	620.1	485.1	270.9	214.12	2.265		
22,800.0	8,972.4	22,881.2	8,979.6	107.3	108.3	-90.93	-13,679.7	619.2	485.1	269.5	215.56	2.250		
22,895.0	8,972.5	22,976.2	8,979.7	108.1	109.0	-90.93	-13,774.7	618.4	485.1	268.1	216.99	2.235		
22,900.0	8,972.5	22,981.2	8,979.7	108.1	109.1	-90.93	-13,779.7	618.3	485.1	268.0	217.06	2.235		
22,990.0	8,972.6	23,071.2	8,979.8	108.8	109.8	-90.93	-13,869.6	617.5	485.1	266.6	218.42	2.221		
23,000.0	8,972.6	23,081.2	8,979.8	108.8	109.8	-90.93	-13,879.6	617.4	485.1	266.5	218.57	2.219		
23,085.0	8,972.7	23,166.2	8,979.9	109.5	110.5	-90.93	-13,964.6	616.7	485.1	265.2	219.85	2.206		
23,100.0	8,972.7	23,181.2	8,979.9	109.6	110.6	-90.93	-13,979.6	616.6	485.1	265.0	220.08	2.204		
23,180.0	8,972.8	23,261.2	8,980.0	110.2	111.2	-90.93	-14,059.6	615.8	485.1	263.8	221.29	2.192		
23,200.0	8,972.9	23,281.2	8,980.0	110.4	111.3	-90.93	-14,079.6	615.7	485.1	263.5	221.59	2.189		
23,275.0	8,972.9	23,356.2	8,980.1	110.9	111.9	-90.92	-14,154.6	615.0	485.1	262.3	222.72	2.178		
23,300.0	8,973.0	23,381.2	8,980.1	111.1	112.1	-90.92	-14,179.6	614.8	485.1	262.0	223.10	2.174		
23,370.0	8,973.1	23,451.2	8,980.2	111.6	112.6	-90.92	-14,249.6	614.2	485.1	260.9	224.15	2.164		
23,400.0	8,973.1	23,481.2	8,980.2	111.9	112.8	-90.92	-14,279.6	613.9	485.1	260.5	224.61	2.160		
23,465.0	8,973.2	23,546.2	8,980.3	112.4	113.3	-90.92	-14,344.6	613.3	485.1	259.5	225.59	2.150		
23,500.0	8,973.2	23,581.2	8,980.3	112.6	113.6	-90.92	-14,379.6	613.0	485.1	259.0	226.12	2.145		
23,560.0	8,973.3	23,641.2	8,980.4	113.1	114.0	-90.92	-14,439.6	612.5	485.1	258.0	227.02	2.137		
23,600.0	8,973.3	23,681.2	8,980.4	113.4	114.3	-90.92	-14,479.6	612.1	485.1	257.4	227.62	2.131		
23,655.0	8,973.4	23,736.2	8,980.5	113.8	114.8	-90.92	-14,534.6	611.6	485.1	256.6	228.46	2.123		
23,700.0	8,973.4	23,781.2	8,980.5	114.1	115.1	-90.92	-14,579.6	611.2	485.1	255.9	229.13	2.117		
23,750.0	8,973.5	23,831.2	8,980.6	114.5	115.5	-90.92	-14,629.6	610.8	485.1	255.2	229.89	2.110		
23,800.0	8,973.5	23,881.2	8,980.6	114.9	115.8	-90.92	-14,679.6	610.4	485.1	254.4	230.64	2.103		
23,845.0	8,973.6	23,926.2	8,980.6	115.2	116.2	-90.92	-14,724.6	610.0	485.1	253.7	231.32	2.097		
23,900.0	8,973.7	23,981.2	8,980.7	115.7	116.6	-90.91	-14,779.6	609.5	485.1	252.9	232.16	2.089		
23,940.0	8,973.7	24,021.2	8,980.7	116.0	116.9	-90.91	-14,819.6	609.1	485.1	252.3	232.76	2.084		
24,000.0	8,973.8	24,081.2	8,980.8	116.4	117.3	-90.91	-14,879.6	608.6	485.1	251.4	233.67	2.076		
24,035.0	8,973.8	24,116.2	8,980.8	116.7	117.6	-90.91	-14,914.6	608.3	485.1	250.9	234.19	2.071		
24,067.0	8,973.9	24,148.2	8,980.9	116.9	117.8	-90.91	-14,946.6	608.0	485.1	250.4	234.68	2.067		
24,100.0	8,973.9	24,181.2	8,980.9	117.2	118.1	-90.91	-14,979.6	607.7	485.1	249.9	235.17	2.063		
24,130.0	8,973.9	24,211.2	8,980.9	117.4	118.3	-90.91	-15,009.6	607.4	485.1	249.4	235.63	2.059		
24,134.2	8,973.9	24,215.4	8,980.9	117.4	118.4	-90.91	-15,013.8	607.4	485.1	249.4	235.69	2.058		
24,197.0	8,974.0	24,278.2	8,981.0	117.9	118.8	-90.91	-15,076.5	606.8	485.1	248.4	236.64	2.050		
24,197.9	8,974.0	24,278.2	8,981.0	117.9	118.8	-90.91	-15,076.5	606.8	485.1	248.4	236.66	2.050 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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #708H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8403-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	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	-90.95	-0.5	-30.0	30.0				
95.0	95.0	95.7	95.7	3.0	3.0	-90.95	-0.5	-30.0	30.0	24.0	6.04	4.971	
100.0	100.0	100.7	100.7	3.0	3.0	-90.95	-0.5	-30.0	30.0	24.0	6.04	4.966	
190.0	190.0	190.7	190.7	3.1	3.1	-90.95	-0.5	-30.0	30.0	23.8	6.25	4.798	
200.0	200.0	200.7	200.7	3.1	3.1	-90.95	-0.5	-30.0	30.0	23.7	6.29	4.772	
285.0	285.0	285.7	285.7	3.3	3.3	-90.95	-0.5	-30.0	30.0	23.5	6.48	4.628	
300.0	300.0	300.7	300.7	3.3	3.3	-90.95	-0.5	-30.0	30.0	23.5	6.52	4.600	
380.0	380.0	380.7	380.7	3.4	3.4	-90.95	-0.5	-30.0	30.0	23.3	6.70	4.476	
400.0	400.0	400.7	400.7	3.4	3.4	-90.95	-0.5	-30.0	30.0	23.3	6.75	4.444	
475.0	475.0	475.7	475.7	3.5	3.5	-90.95	-0.5	-30.0	30.0	23.1	6.91	4.339	
500.0	500.0	500.7	500.7	3.5	3.5	-90.95	-0.5	-30.0	30.0	23.0	6.97	4.304	
570.0	570.0	570.7	570.7	3.6	3.6	-90.95	-0.5	-30.0	30.0	22.9	7.12	4.214	
600.0	600.0	600.7	600.7	3.6	3.6	-90.95	-0.5	-30.0	30.0	22.8	7.19	4.176	
665.0	665.0	665.7	665.7	3.7	3.7	-90.95	-0.5	-30.0	30.0	22.7	7.32	4.100	
700.0	700.0	700.7	700.7	3.8	3.8	-90.95	-0.5	-30.0	30.0	22.6	7.39	4.059	
760.0	760.0	760.7	760.7	3.8	3.8	-90.95	-0.5	-30.0	30.0	22.5	7.51	3.994	
800.0	800.0	800.7	800.7	3.9	3.9	-90.95	-0.5	-30.0	30.0	22.4	7.59	3.951	
855.0	855.0	855.7	855.7	4.0	4.0	-90.95	-0.5	-30.0	30.0	22.3	7.70	3.896	
900.0	900.0	900.7	900.7	4.0	4.0	-90.95	-0.5	-30.0	30.0	22.2	7.79	3.851	
950.0	950.0	950.7	950.7	4.1	4.1	-90.95	-0.5	-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	-90.95	-0.5	-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	-90.95	-0.5	-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	-90.95	-0.5	-30.0	30.0	21.8	8.17	3.672	
1,140.0	1,140.0	1,140.7	1,140.7	4.3	4.3	-90.95	-0.5	-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	-90.95	-0.5	-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	-90.95	-0.5	-30.0	30.0	21.6	8.42	3.565	
1,300.0	1,300.0	1,300.7	1,300.7	4.5	4.5	-90.95	-0.5	-30.0	30.0	21.5	8.53	3.516	
1,330.0	1,330.0	1,330.7	1,330.7	4.5	4.5	-90.95	-0.5	-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	-90.95	-0.5	-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	-90.95	-0.5	-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	-90.95	-0.5	-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	-90.95	-0.5	-30.0	30.0	21.1	8.88	3.379 ES	
1,520.0	1,520.0	1,520.6	1,520.6	4.8	4.8	-125.23	-0.4	-30.0	30.1	21.2	8.92	3.370	
1,600.0	1,600.0	1,600.0	1,600.0	4.9	4.9	-124.96	1.0	-30.8	31.8	22.7	9.10	3.494	
1,615.0	1,615.0	1,615.1	1,615.1	4.9	4.9	-124.88	1.5	-31.1	32.4	23.2	9.16	3.536	
1,700.0	1,699.8	1,699.5	1,699.3	5.1	5.2	-124.32	5.6	-33.2	37.2	27.7	9.49	3.921	
1,710.0	1,709.8	1,709.4	1,709.2	5.2	5.2	-124.24	6.3	-33.6	37.9	28.4	9.52	3.982	
1,800.0	1,799.5	1,798.4	1,797.9	5.4	5.4	-123.57	13.2	-37.2	46.1	36.3	9.87	4.676	
1,805.0	1,804.4	1,803.3	1,802.8	5.4	5.4	-123.53	13.7	-37.5	46.7	36.8	9.89	4.721	
1,900.0	1,898.7	1,896.8	1,895.5	5.7	5.7	-122.88	23.8	-42.8	58.6	48.4	10.26	5.718	
1,950.1	1,948.2	1,946.0	1,944.2	5.8	5.8	-122.62	30.1	-46.1	66.2	55.8	10.36	6.391	
1,995.0	1,992.6	1,990.4	1,988.1	5.9	5.9	-122.71	35.9	-49.2	73.2	62.8	10.46	6.998	
2,000.0	1,997.5	1,995.3	1,993.0	5.9	5.9	-122.72	36.5	-49.5	74.0	63.5	10.48	7.065	
2,090.0	2,086.4	2,084.2	2,080.9	6.1	6.1	-122.84	48.1	-55.7	88.1	77.3	10.81	8.152	
2,100.0	2,096.3	2,094.1	2,090.6	6.1	6.2	-122.85	49.4	-56.4	89.7	78.8	10.85	8.268	
2,185.0	2,180.3	2,178.0	2,173.7	6.4	6.4	-122.93	60.4	-62.2	103.0	91.8	11.17	9.219	
2,200.0	2,195.1	2,192.8	2,188.3	6.4	6.4	-122.95	62.3	-63.2	105.4	94.1	11.23	9.380	
2,280.0	2,274.1	2,271.8	2,266.5	6.7	6.7	-123.00	72.7	-68.6	117.9	106.3	11.55	10.210	
2,300.0	2,293.8	2,291.6	2,286.0	6.7	6.7	-123.02	75.3	-70.0	121.0	109.4	11.63	10.410	
2,375.0	2,367.9	2,365.7	2,359.3	7.0	6.9	-123.06	84.9	-75.1	132.8	120.8	11.93	11.131	
2,400.0	2,392.6	2,390.4	2,383.7	7.0	7.0	-123.07	88.2	-76.8	136.7	124.7	12.03	11.362	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #708H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8403-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)		
2,470.0	2,461.7	2,459.5	2,452.1	7.3	7.2	-123.10	97.2	-81.6	147.7	135.3	12.32	11.987
2,500.0	2,491.4	2,489.1	2,481.4	7.4	7.3	-123.11	101.1	-83.6	152.4	139.9	12.44	12.245
2,565.0	2,555.6	2,553.3	2,544.9	7.6	7.6	-123.14	109.5	-88.1	162.5	149.8	12.72	12.783
2,600.0	2,590.1	2,587.9	2,579.0	7.7	7.7	-123.15	114.0	-90.4	168.0	155.2	12.86	13.062
2,660.0	2,649.4	2,647.1	2,637.6	7.9	7.9	-123.17	121.7	-94.5	177.4	164.3	13.12	13.524
2,700.0	2,688.9	2,686.6	2,676.7	8.1	8.0	-123.18	126.9	-97.3	183.7	170.4	13.29	13.821
2,755.0	2,743.2	2,741.0	2,730.4	8.2	8.2	-123.19	134.0	-101.0	192.3	178.8	13.53	14.215
2,800.0	2,787.7	2,785.4	2,774.4	8.4	8.4	-123.20	139.8	-104.1	199.4	185.6	13.73	14.526
2,850.0	2,837.1	2,834.8	2,823.2	8.6	8.5	-123.21	146.3	-107.5	207.2	193.3	13.94	14.860
2,900.0	2,886.5	2,884.2	2,872.1	8.8	8.7	-123.22	152.7	-110.9	215.0	200.9	14.16	15.182
2,945.0	2,930.9	2,928.6	2,916.0	8.9	8.9	-123.23	158.5	-114.0	222.1	207.7	14.36	15.462
3,000.0	2,985.2	2,982.9	2,969.8	9.2	9.1	-123.24	165.6	-117.7	230.7	216.1	14.61	15.792
3,040.0	3,024.7	3,022.4	3,008.8	9.3	9.2	-123.25	170.8	-120.4	237.0	222.2	14.79	16.025
3,100.0	3,084.0	3,081.7	3,067.4	9.5	9.4	-123.26	178.6	-124.5	246.4	231.3	15.06	16.362
3,135.0	3,118.6	3,116.3	3,101.6	9.7	9.6	-123.26	183.1	-126.9	251.9	236.7	15.22	16.552
3,200.0	3,182.8	3,180.5	3,165.1	9.9	9.8	-123.27	191.5	-131.3	262.1	246.5	15.51	16.893
3,230.0	3,212.4	3,210.1	3,194.4	10.0	9.9	-123.28	195.3	-133.4	266.8	251.1	15.65	17.046
3,300.0	3,281.5	3,279.2	3,262.8	10.3	10.2	-123.28	204.4	-138.2	277.7	261.8	15.97	17.390
3,325.0	3,306.2	3,303.9	3,287.2	10.4	10.3	-123.29	207.6	-139.9	281.6	265.6	16.09	17.509
3,400.0	3,380.3	3,378.0	3,360.5	10.7	10.6	-123.30	217.3	-145.0	293.4	277.0	16.43	17.856
3,420.0	3,400.0	3,397.7	3,380.0	10.8	10.7	-123.30	219.9	-146.3	296.5	280.0	16.52	17.945
3,500.0	3,479.1	3,476.8	3,458.2	11.1	11.0	-123.31	230.2	-151.8	309.1	292.2	16.90	18.292
3,515.0	3,493.9	3,491.6	3,472.8	11.2	11.0	-123.31	232.2	-152.8	311.4	294.5	16.97	18.355
3,600.0	3,577.8	3,575.5	3,555.8	11.5	11.4	-123.31	243.1	-158.6	324.7	307.4	17.36	18.702
3,610.0	3,587.7	3,585.4	3,565.6	11.5	11.4	-123.32	244.4	-159.3	326.3	308.9	17.41	18.741
3,700.0	3,676.6	3,674.3	3,653.5	11.9	11.8	-123.32	256.0	-165.4	340.4	322.6	17.83	19.087
3,705.0	3,681.5	3,679.2	3,658.4	11.9	11.8	-123.32	256.7	-165.8	341.2	323.3	17.86	19.105
3,800.0	3,775.4	3,773.1	3,751.2	12.3	12.1	-123.33	269.0	-172.2	356.1	337.8	18.31	19.449
3,895.0	3,869.2	3,866.9	3,844.0	12.7	12.5	-123.34	281.2	-178.7	371.0	352.2	18.76	19.774
3,900.0	3,874.1	3,871.8	3,848.9	12.7	12.5	-123.34	281.9	-179.0	371.7	353.0	18.78	19.791
3,990.0	3,963.0	3,960.7	3,936.8	13.1	12.9	-123.34	293.5	-185.2	385.9	366.6	19.21	20.082
4,000.0	3,972.9	3,970.6	3,946.5	13.1	12.9	-123.34	294.8	-185.9	387.4	368.2	19.26	20.113
4,085.0	4,056.9	4,054.5	4,029.6	13.5	13.3	-123.35	305.8	-191.7	400.7	381.1	19.67	20.373
4,100.0	4,071.7	4,069.3	4,044.2	13.6	13.4	-123.35	307.7	-192.7	403.1	383.3	19.74	20.418
4,180.0	4,150.7	4,149.1	4,123.1	13.9	13.7	-123.36	318.1	-198.2	415.6	395.5	20.11	20.668
4,200.0	4,170.4	4,169.6	4,143.4	14.0	13.7	-123.37	320.7	-199.5	418.7	398.5	20.20	20.724
4,210.2	4,180.5	4,180.0	4,153.7	14.0	13.8	-123.38	321.9	-200.2	420.2	400.0	20.24	20.759
4,275.0	4,244.6	4,246.4	4,219.5	14.3	14.0	-123.54	329.8	-204.3	429.8	409.2	20.55	20.911
4,300.0	4,269.3	4,272.1	4,245.0	14.4	14.1	-123.60	332.6	-205.8	433.2	412.5	20.67	20.957
4,370.0	4,338.7	4,344.1	4,316.5	14.7	14.4	-123.77	340.0	-209.8	442.3	421.3	21.01	21.055
4,400.0	4,368.4	4,375.0	4,347.2	14.8	14.6	-123.84	343.0	-211.3	446.0	424.8	21.15	21.085
4,465.0	4,433.0	4,442.0	4,413.9	15.0	14.8	-123.99	348.9	-214.4	453.3	431.8	21.45	21.129
4,500.0	4,467.8	4,478.2	4,449.9	15.2	14.9	-124.07	351.7	-215.9	456.9	435.3	21.62	21.138
4,560.0	4,527.5	4,540.2	4,511.7	15.4	15.2	-124.20	356.2	-218.3	462.6	440.7	21.88	21.140
4,600.0	4,567.3	4,581.6	4,553.0	15.6	15.3	-124.29	358.9	-219.7	466.0	444.0	22.06	21.125
4,655.0	4,622.1	4,638.6	4,609.9	15.8	15.5	-124.42	362.1	-221.4	470.3	448.0	22.30	21.093
4,700.0	4,667.0	4,685.3	4,656.5	15.9	15.7	-124.52	364.4	-222.6	473.4	450.9	22.49	21.051
4,750.0	4,716.9	4,737.2	4,708.3	16.1	15.8	-124.63	366.5	-223.7	476.4	453.7	22.69	20.995
4,800.0	4,766.8	4,789.1	4,760.2	16.3	16.0	-124.74	368.2	-224.6	478.9	456.0	22.89	20.922
4,845.0	4,811.7	4,835.8	4,807.0	16.4	16.1	-124.85	369.4	-225.3	480.8	457.7	23.06	20.851
4,900.0	4,866.7	4,893.0	4,864.1	16.6	16.3	-124.97	370.4	-225.8	482.6	459.3	23.26	20.746

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #708H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8403-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Offset Wellbore Centre	Distance		Minimum Separation	Separation Factor	Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
4,940.0	4,906.6	4,934.6	4,905.7	16.7	16.4	-125.07	370.9	-226.0	483.5	460.2	23.38	20.681	
5,000.0	4,966.6	4,996.2	4,967.3	16.9	16.4	-125.20	371.0	-226.1	484.5	460.9	23.54	20.579	
5,035.0	5,001.6	5,031.2	5,002.3	17.0	16.5	-125.26	371.0	-226.1	484.8	461.2	23.62	20.523	
5,100.0	5,066.6	5,096.2	5,067.3	17.1	16.5	-125.31	371.0	-226.1	485.1	461.3	23.77	20.404	
5,110.4	5,077.0	5,106.6	5,077.7	17.1	16.5	-91.02	371.0	-226.1	485.1	461.3	23.79	20.393	
5,130.0	5,096.6	5,126.2	5,097.3	17.1	16.5	-91.02	371.0	-226.1	485.1	461.3	23.81	20.369	
5,200.0	5,166.6	5,196.2	5,167.3	17.2	16.6	-91.02	371.0	-226.1	485.1	461.2	23.91	20.284	
5,225.0	5,191.6	5,221.2	5,192.3	17.2	16.6	-91.02	371.0	-226.1	485.1	461.1	23.95	20.252	
5,300.0	5,266.6	5,296.2	5,267.3	17.2	16.6	-91.02	371.0	-226.1	485.1	461.0	24.07	20.156	
5,320.0	5,286.6	5,316.2	5,287.3	17.2	16.6	-91.02	371.0	-226.1	485.1	461.0	24.10	20.131	
5,400.0	5,366.6	5,396.2	5,367.3	17.3	16.7	-91.02	371.0	-226.1	485.1	460.9	24.22	20.030	
5,415.0	5,381.6	5,411.2	5,382.3	17.3	16.7	-91.02	371.0	-226.1	485.1	460.8	24.24	20.011	
5,500.0	5,466.6	5,496.2	5,467.3	17.3	16.7	-91.02	371.0	-226.1	485.1	460.7	24.37	19.906	
5,510.0	5,476.6	5,506.2	5,477.3	17.4	16.7	-91.02	371.0	-226.1	485.1	460.7	24.38	19.893	
5,600.0	5,566.6	5,596.2	5,567.3	17.4	16.8	-91.02	371.0	-226.1	485.1	460.6	24.52	19.783	
5,605.0	5,571.6	5,601.2	5,572.3	17.4	16.8	-91.02	371.0	-226.1	485.1	460.5	24.53	19.777	
5,700.0	5,666.6	5,696.2	5,667.3	17.5	16.8	-91.02	371.0	-226.1	485.1	460.4	24.67	19.661	
5,795.0	5,761.6	5,791.2	5,762.3	17.5	16.9	-91.02	371.0	-226.1	485.1	460.3	24.82	19.547	
5,800.0	5,766.6	5,796.2	5,767.3	17.5	16.9	-91.02	371.0	-226.1	485.1	460.3	24.82	19.541	
5,890.0	5,856.6	5,886.2	5,857.3	17.6	17.0	-91.02	371.0	-226.1	485.1	460.1	24.96	19.434	
5,900.0	5,866.6	5,896.2	5,867.3	17.6	17.0	-91.02	371.0	-226.1	485.1	460.1	24.98	19.422	
5,985.0	5,951.6	5,981.2	5,952.3	17.6	17.0	-91.02	371.0	-226.1	485.1	460.0	25.11	19.322	
6,000.0	5,966.6	5,996.2	5,967.3	17.6	17.0	-91.02	371.0	-226.1	485.1	459.9	25.13	19.304	
6,080.0	6,046.6	6,076.2	6,047.3	17.7	17.1	-91.02	371.0	-226.1	485.1	459.8	25.25	19.211	
6,100.0	6,066.6	6,096.2	6,067.3	17.7	17.1	-91.02	371.0	-226.1	485.1	459.8	25.28	19.188	
6,175.0	6,141.6	6,171.2	6,142.3	17.7	17.1	-91.02	371.0	-226.1	485.1	459.7	25.39	19.102	
6,200.0	6,166.6	6,196.2	6,167.3	17.7	17.1	-91.02	371.0	-226.1	485.1	459.6	25.43	19.073	
6,270.0	6,236.6	6,266.2	6,237.3	17.8	17.2	-91.02	371.0	-226.1	485.1	459.5	25.54	18.993	
6,300.0	6,266.6	6,296.2	6,267.3	17.8	17.2	-91.02	371.0	-226.1	485.1	459.5	25.59	18.959	
6,365.0	6,331.6	6,361.2	6,332.3	17.8	17.2	-91.02	371.0	-226.1	485.1	459.4	25.68	18.886	
6,400.0	6,366.6	6,396.2	6,367.3	17.8	17.3	-91.02	371.0	-226.1	485.1	459.3	25.74	18.847	
6,460.0	6,426.6	6,456.2	6,427.3	17.9	17.3	-91.02	371.0	-226.1	485.1	459.2	25.83	18.780	
6,500.0	6,466.6	6,496.2	6,467.3	17.9	17.3	-91.02	371.0	-226.1	485.1	459.2	25.89	18.736	
6,555.0	6,521.6	6,551.2	6,522.3	17.9	17.3	-91.02	371.0	-226.1	485.1	459.1	25.97	18.675	
6,600.0	6,566.6	6,596.2	6,567.3	18.0	17.4	-91.02	371.0	-226.1	485.1	459.0	26.04	18.626	
6,650.0	6,616.6	6,646.2	6,617.3	18.0	17.4	-91.02	371.0	-226.1	485.1	459.0	26.12	18.571	
6,700.0	6,666.6	6,696.2	6,667.3	18.0	17.4	-91.02	371.0	-226.1	485.1	458.9	26.20	18.517	
6,745.0	6,711.6	6,741.2	6,712.3	18.0	17.5	-91.02	371.0	-226.1	485.1	458.8	26.27	18.468	
6,800.0	6,766.6	6,796.2	6,767.3	18.1	17.5	-91.02	371.0	-226.1	485.1	458.7	26.35	18.409	
6,840.0	6,806.6	6,836.2	6,807.3	18.1	17.5	-91.02	371.0	-226.1	485.1	458.7	26.41	18.366	
6,900.0	6,866.6	6,896.2	6,867.3	18.1	17.6	-91.02	371.0	-226.1	485.1	458.6	26.50	18.303	
6,935.0	6,901.6	6,931.2	6,902.3	18.2	17.6	-91.02	371.0	-226.1	485.1	458.5	26.56	18.266	
7,000.0	6,966.6	6,996.2	6,967.3	18.2	17.6	-91.02	371.0	-226.1	485.1	458.4	26.66	18.197	
7,030.0	6,996.6	7,026.2	6,997.3	18.2	17.6	-91.02	371.0	-226.1	485.1	458.4	26.70	18.166	
7,100.0	7,066.6	7,096.2	7,067.3	18.2	17.7	-91.02	371.0	-226.1	485.1	458.3	26.81	18.093	
7,125.0	7,091.6	7,121.2	7,092.3	18.3	17.7	-91.02	371.0	-226.1	485.1	458.2	26.85	18.067	
7,200.0	7,166.6	7,196.2	7,167.3	18.3	17.7	-91.02	371.0	-226.1	485.1	458.1	26.96	17.990	
7,220.0	7,186.6	7,216.2	7,187.3	18.3	17.7	-91.02	371.0	-226.1	485.1	458.1	26.99	17.970	
7,300.0	7,266.6	7,296.2	7,267.3	18.4	17.8	-91.02	371.0	-226.1	485.1	458.0	27.12	17.888	
7,315.0	7,281.6	7,311.2	7,282.3	18.4	17.8	-91.02	371.0	-226.1	485.1	457.9	27.14	17.873	
7,400.0	7,366.6	7,396.2	7,367.3	18.4	17.9	-91.02	371.0	-226.1	485.1	457.8	27.27	17.787	

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #708H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8403-r.5 MWD+IFR1+MS							Rule Assigned:				Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
7,410.0	7,376.6	7,406.2	7,377.3	18.4	17.9	-91.02	371.0	-226.1	485.1	457.8	27.29	17.777		
7,500.0	7,466.6	7,496.2	7,467.3	18.5	17.9	-91.02	371.0	-226.1	485.1	457.7	27.42	17.688		
7,505.0	7,471.6	7,501.2	7,472.3	18.5	17.9	-91.02	371.0	-226.1	485.1	457.6	27.43	17.683		
7,600.0	7,566.6	7,596.2	7,567.3	18.5	18.0	-91.02	371.0	-226.1	485.1	457.5	27.58	17.589		
7,695.0	7,661.6	7,691.2	7,662.3	18.6	18.0	-91.02	371.0	-226.1	485.1	457.4	27.72	17.496		
7,700.0	7,666.6	7,696.2	7,667.3	18.6	18.0	-91.02	371.0	-226.1	485.1	457.3	27.73	17.491		
7,790.0	7,756.6	7,786.2	7,757.3	18.6	18.1	-91.02	371.0	-226.1	485.1	457.2	27.87	17.404		
7,800.0	7,766.6	7,796.2	7,767.3	18.7	18.1	-91.02	371.0	-226.1	485.1	457.2	27.89	17.394		
7,885.0	7,851.6	7,881.2	7,852.3	18.7	18.2	-91.02	371.0	-226.1	485.1	457.1	28.02	17.313		
7,900.0	7,866.6	7,896.2	7,867.3	18.7	18.2	-91.02	371.0	-226.1	485.1	457.0	28.04	17.299		
7,980.0	7,946.6	7,976.2	7,947.3	18.8	18.2	-91.02	371.0	-226.1	485.1	456.9	28.16	17.223		
8,000.0	7,966.6	7,996.2	7,967.3	18.8	18.2	-91.02	371.0	-226.1	485.1	456.9	28.20	17.204		
8,075.0	8,041.6	8,071.2	8,042.3	18.8	18.3	-91.02	371.0	-226.1	485.1	456.8	28.31	17.134		
8,100.0	8,066.6	8,096.2	8,067.3	18.8	18.3	-91.02	371.0	-226.1	485.1	456.7	28.35	17.110		
8,170.0	8,136.6	8,166.2	8,137.3	18.9	18.3	-91.02	371.0	-226.1	485.1	456.6	28.46	17.045		
8,200.0	8,166.6	8,196.2	8,167.3	18.9	18.3	-91.02	371.0	-226.1	485.1	456.6	28.50	17.018		
8,265.0	8,231.6	8,261.2	8,232.3	18.9	18.4	-91.02	371.0	-226.1	485.1	456.5	28.60	16.958		
8,300.0	8,266.6	8,296.2	8,267.3	19.0	18.4	-91.02	371.0	-226.1	485.1	456.4	28.66	16.926		
8,360.0	8,326.6	8,356.2	8,327.3	19.0	18.4	-91.02	371.0	-226.1	485.1	456.3	28.75	16.875		
8,400.0	8,366.6	8,396.2	8,367.3	19.0	18.5	-91.02	371.0	-226.1	485.1	456.3	28.80	16.841		
8,400.7	8,367.3	8,396.9	8,368.0	19.0	18.5	-91.02	371.0	-226.1	485.1	456.3	28.80	16.841		
8,417.4	8,384.0	8,413.4	8,384.5	19.0	18.5	-91.03	370.9	-226.1	485.1	456.3	28.81	16.836		
8,450.0	8,416.6	8,445.2	8,416.3	19.0	18.5	88.40	369.4	-226.1	485.1	456.3	28.82	16.831		
8,455.0	8,421.6	8,450.0	8,421.1	19.0	18.5	88.39	369.1	-226.1	485.1	456.3	28.82	16.830		
8,500.0	8,466.3	8,494.0	8,464.8	19.1	18.6	88.30	363.8	-226.2	485.1	456.3	28.83	16.825		
8,550.0	8,515.4	8,542.8	8,512.5	19.1	18.6	88.22	354.0	-226.3	485.1	456.3	28.84	16.823		
8,600.0	8,563.5	8,591.5	8,559.2	19.2	18.7	88.15	340.3	-226.4	485.2	456.3	28.84	16.824		
8,645.0	8,605.7	8,635.2	8,600.0	19.2	18.7	88.10	324.5	-226.5	485.2	456.3	28.83	16.827		
8,650.0	8,610.3	8,640.1	8,604.5	19.2	18.7	88.10	322.6	-226.5	485.2	456.3	28.83	16.828		
8,700.0	8,655.3	8,688.7	8,648.1	19.3	18.8	88.06	301.2	-226.7	485.2	456.4	28.82	16.833		
8,740.0	8,689.8	8,727.6	8,681.6	19.3	18.8	88.04	281.4	-226.9	485.2	456.4	28.82	16.837		
8,750.0	8,698.3	8,737.3	8,689.8	19.3	18.9	88.03	276.2	-226.9	485.2	456.4	28.82	16.838		
8,800.0	8,738.8	8,785.9	8,729.1	19.4	18.9	88.02	247.7	-227.2	485.2	456.4	28.81	16.842		
8,835.0	8,765.6	8,819.9	8,755.2	19.4	19.0	88.02	225.9	-227.4	485.2	456.4	28.81	16.843		
8,850.0	8,776.7	8,834.5	8,765.9	19.5	19.0	88.02	216.0	-227.5	485.2	456.4	28.81	16.844		
8,900.0	8,811.6	8,883.1	8,799.9	19.5	19.0	88.04	181.3	-227.8	485.2	456.4	28.81	16.841		
8,930.0	8,830.9	8,912.2	8,818.9	19.5	19.1	88.06	159.2	-228.0	485.2	456.4	28.82	16.836		
8,950.0	8,843.2	8,931.7	8,830.9	19.6	19.1	88.07	143.9	-228.1	485.2	456.4	28.82	16.832		
9,000.0	8,871.3	8,980.3	8,858.5	19.6	19.1	88.12	103.9	-228.5	485.2	456.3	28.85	16.816		
9,025.0	8,884.0	9,004.6	8,871.1	19.6	19.2	88.15	83.1	-228.7	485.2	456.3	28.87	16.805		
9,050.0	8,895.7	9,029.0	8,882.7	19.7	19.2	88.18	61.7	-228.8	485.2	456.3	28.89	16.791		
9,100.0	8,916.2	9,077.7	8,903.3	19.7	19.2	88.26	17.5	-229.2	485.1	456.2	28.95	16.757		
9,120.0	8,923.3	9,097.2	8,910.5	19.7	19.3	88.29	-0.6	-229.4	485.1	456.1	28.98	16.741		
9,150.0	8,932.7	9,126.4	8,920.0	19.8	19.3	88.34	-28.2	-229.6	485.1	456.1	29.03	16.713		
9,200.0	8,945.0	9,175.3	8,932.8	19.8	19.3	88.44	-75.3	-230.1	485.1	456.0	29.12	16.657		
9,215.0	8,947.9	9,189.9	8,935.9	19.8	19.3	88.47	-89.7	-230.2	485.1	455.9	29.15	16.638		
9,250.0	8,953.0	9,224.2	8,941.6	19.8	19.3	88.55	-123.4	-230.5	485.1	455.8	29.24	16.591		
9,300.0	8,956.7	9,273.2	8,946.2	19.9	19.4	88.67	-172.2	-230.9	485.0	455.7	29.37	16.515		
9,310.0	8,957.0	9,283.0	8,946.7	19.9	19.4	88.70	-182.0	-231.0	485.0	455.6	29.40	16.498		
9,316.8	8,957.0	9,289.6	8,946.8	19.9	19.4	88.72	-188.6	-231.1	485.0	455.6	29.42	16.487		
9,349.5	8,957.0	9,322.1	8,947.0	19.9	19.4	88.73	-221.1	-231.4	485.0	455.5	29.53	16.423		

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #708H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8403-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		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	
9,400.0	8,957.1	9,372.6	8,947.1	19.9	19.4	88.74	-271.6	-231.8	485.0	455.3	29.72	16.321	
9,405.0	8,957.1	9,377.6	8,947.1	19.9	19.4	88.74	-276.6	-231.8	485.0	455.3	29.74	16.310	
9,500.0	8,957.2	9,472.6	8,947.3	20.0	19.5	88.74	-371.6	-232.7	485.0	454.9	30.15	16.085	
9,595.0	8,957.3	9,567.6	8,947.4	20.1	19.5	88.74	-466.6	-233.5	485.0	454.4	30.63	15.833	
9,600.0	8,957.3	9,572.6	8,947.4	20.1	19.5	88.74	-471.6	-233.6	485.0	454.4	30.66	15.820	
9,690.0	8,957.4	9,662.6	8,947.5	20.1	19.6	88.75	-561.6	-234.4	485.0	453.9	31.17	15.559	
9,700.0	8,957.4	9,672.6	8,947.5	20.2	19.6	88.75	-571.6	-234.5	485.0	453.8	31.23	15.530	
9,785.0	8,957.5	9,757.6	8,947.7	20.2	19.7	88.75	-656.6	-235.2	485.0	453.3	31.77	15.267	
9,800.0	8,957.6	9,772.6	8,947.7	20.3	19.7	88.75	-671.6	-235.4	485.0	453.2	31.87	15.221	
9,880.0	8,957.6	9,852.6	8,947.8	20.4	19.8	88.76	-751.6	-236.1	485.0	452.6	32.42	14.961	
9,900.0	8,957.7	9,872.6	8,947.8	20.4	19.8	88.76	-771.6	-236.2	485.0	452.5	32.56	14.896	
9,975.0	8,957.8	9,947.6	8,948.0	20.5	19.9	88.76	-846.6	-236.9	485.0	451.9	33.12	14.644	
10,000.0	8,957.8	9,972.6	8,948.0	20.5	19.9	88.76	-871.6	-237.1	485.0	451.7	33.31	14.561	
10,070.0	8,957.9	10,042.6	8,948.1	20.6	20.0	88.76	-941.6	-237.8	485.0	451.2	33.87	14.320	
10,100.0	8,957.9	10,072.6	8,948.1	20.7	20.0	88.76	-971.6	-238.0	485.0	450.9	34.11	14.218	
10,165.0	8,958.0	10,137.6	8,948.2	20.8	20.1	88.77	-1,036.6	-238.6	485.0	450.4	34.66	13.992	
10,200.0	8,958.0	10,172.6	8,948.3	20.9	20.2	88.77	-1,071.6	-238.9	485.0	450.1	34.96	13.872	
10,260.0	8,958.1	10,232.6	8,948.4	21.0	20.3	88.77	-1,131.6	-239.4	485.0	449.5	35.50	13.663	
10,300.0	8,958.1	10,272.6	8,948.4	21.1	20.4	88.77	-1,171.6	-239.8	485.0	449.2	35.86	13.526	
10,355.0	8,958.2	10,327.6	8,948.5	21.2	20.5	88.78	-1,226.6	-240.3	485.0	448.7	36.37	13.335	
10,400.0	8,958.2	10,372.6	8,948.6	21.3	20.6	88.78	-1,271.6	-240.7	485.0	448.2	36.80	13.181	
10,450.0	8,958.3	10,422.6	8,948.7	21.4	20.7	88.78	-1,321.6	-241.1	485.0	447.7	37.28	13.010	
10,500.0	8,958.4	10,472.6	8,948.7	21.5	20.8	88.78	-1,371.6	-241.6	485.0	447.3	37.77	12.841	
10,545.0	8,958.4	10,517.6	8,948.8	21.7	20.9	88.78	-1,416.6	-242.0	485.0	446.8	38.23	12.689	
10,600.0	8,958.5	10,572.6	8,948.9	21.8	21.1	88.78	-1,471.6	-242.5	485.0	446.2	38.78	12.506	
10,640.0	8,958.5	10,612.6	8,948.9	22.0	21.2	88.79	-1,511.6	-242.8	485.0	445.8	39.20	12.373	
10,700.0	8,958.6	10,672.6	8,949.0	22.1	21.4	88.79	-1,571.6	-243.3	485.0	445.2	39.83	12.178	
10,724.9	8,958.6	10,697.5	8,949.1	22.2	21.4	88.79	-1,596.5	-243.6	485.0	444.9	40.09	12.097	
10,735.0	8,958.6	10,707.6	8,949.1	22.3	21.5	88.79	-1,606.6	-243.7	485.0	444.8	40.20	12.065	
10,800.0	8,958.7	10,772.6	8,949.2	22.5	21.7	88.79	-1,671.6	-244.2	485.0	444.1	40.90	11.858	
10,830.0	8,958.7	10,802.6	8,949.2	22.6	21.8	88.79	-1,701.6	-244.5	485.0	443.8	41.23	11.763	
10,900.0	8,958.8	10,872.6	8,949.3	22.9	22.1	88.80	-1,771.6	-245.1	485.0	443.0	42.01	11.546	
10,925.0	8,958.8	10,897.6	8,949.4	23.0	22.2	88.80	-1,796.6	-245.3	485.0	442.7	42.29	11.470	
11,000.0	8,958.9	10,972.6	8,949.5	23.3	22.5	88.80	-1,871.6	-246.0	485.0	441.9	43.14	11.244	
11,020.0	8,958.9	10,992.6	8,949.5	23.4	22.6	88.80	-1,891.5	-246.2	485.0	441.7	43.36	11.185	
11,100.0	8,959.0	11,072.6	8,949.6	23.7	22.9	88.80	-1,971.5	-246.9	485.0	440.7	44.29	10.952	
11,115.0	8,959.1	11,087.6	8,949.6	23.8	23.0	88.81	-1,986.5	-247.0	485.0	440.6	44.46	10.908	
11,200.0	8,959.2	11,172.6	8,949.8	24.2	23.4	88.81	-2,071.5	-247.8	485.0	439.6	45.46	10.668	
11,210.0	8,959.2	11,182.6	8,949.8	24.2	23.4	88.81	-2,081.5	-247.9	485.0	439.4	45.58	10.641	
11,300.0	8,959.3	11,272.6	8,949.9	24.6	23.9	88.81	-2,171.5	-248.7	485.0	438.4	46.66	10.395	
11,305.0	8,959.3	11,277.6	8,949.9	24.7	23.9	88.81	-2,176.5	-248.7	485.0	438.3	46.72	10.382	
11,400.0	8,959.4	11,372.6	8,950.1	25.1	24.4	88.82	-2,271.5	-249.6	485.0	437.2	47.87	10.131	
11,495.0	8,959.5	11,467.6	8,950.2	25.6	24.9	88.82	-2,366.5	-250.4	485.0	436.0	49.04	9.890	
11,500.0	8,959.5	11,472.6	8,950.2	25.7	25.0	88.82	-2,371.5	-250.4	485.0	435.9	49.11	9.877	
11,590.0	8,959.6	11,562.6	8,950.3	26.2	25.5	88.82	-2,461.5	-251.2	485.0	434.8	50.23	9.656	
11,600.0	8,959.6	11,572.6	8,950.4	26.2	25.5	88.82	-2,471.5	-251.3	485.0	434.7	50.35	9.632	
11,685.0	8,959.7	11,657.6	8,950.5	26.7	26.0	88.83	-2,556.5	-252.1	485.0	433.6	51.43	9.431	
11,700.0	8,959.7	11,672.6	8,950.5	26.8	26.1	88.83	-2,571.5	-252.2	485.0	433.4	51.62	9.397	
11,780.0	8,959.8	11,752.6	8,950.6	27.2	26.6	88.83	-2,651.5	-252.9	485.0	432.4	52.64	9.214	
11,800.0	8,959.8	11,772.6	8,950.7	27.3	26.7	88.83	-2,671.5	-253.1	485.0	432.1	52.89	9.170	
11,875.0	8,959.9	11,847.6	8,950.8	27.8	27.1	88.84	-2,746.5	-253.8	485.0	431.2	53.86	9.005	

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #708H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8403-r.5 MWD+IFR1+MS							Rule Assigned:				Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance			Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)		Separation Factor	
11,900.0	8,960.0	11,872.6	8,950.8	27.9	27.3	88.84	-2,771.5	-254.0	485.0	430.8	54.18	8.951		
11,970.0	8,960.0	11,942.6	8,950.9	28.3	27.7	88.84	-2,841.5	-254.6	485.0	429.9	55.10	8.803		
12,000.0	8,960.1	11,972.6	8,951.0	28.5	27.9	88.84	-2,871.5	-254.9	485.0	429.5	55.49	8.741		
12,065.0	8,960.1	12,037.6	8,951.0	28.9	28.3	88.84	-2,936.5	-255.5	485.0	428.7	56.34	8.609		
12,100.0	8,960.2	12,072.6	8,951.1	29.1	28.5	88.84	-2,971.5	-255.8	485.0	428.2	56.80	8.539		
12,160.0	8,960.2	12,132.6	8,951.2	29.5	28.9	88.85	-3,031.5	-256.3	485.0	427.4	57.59	8.422		
12,200.0	8,960.3	12,172.6	8,951.2	29.8	29.2	88.85	-3,071.5	-256.7	485.0	426.9	58.12	8.345		
12,255.0	8,960.4	12,227.6	8,951.3	30.1	29.5	88.85	-3,126.5	-257.1	485.0	426.2	58.86	8.241		
12,300.0	8,960.4	12,272.6	8,951.4	30.4	29.8	88.85	-3,171.5	-257.5	485.0	425.6	59.46	8.158		
12,350.0	8,960.5	12,322.6	8,951.5	30.7	30.1	88.85	-3,221.5	-258.0	485.0	424.9	60.13	8.066		
12,400.0	8,960.5	12,372.6	8,951.5	31.0	30.5	88.86	-3,271.5	-258.4	485.0	424.2	60.80	7.977		
12,445.0	8,960.6	12,417.6	8,951.6	31.3	30.8	88.86	-3,316.5	-258.8	485.0	423.6	61.41	7.898		
12,500.0	8,960.6	12,472.6	8,951.7	31.7	31.1	88.86	-3,371.5	-259.3	485.0	422.9	62.15	7.804		
12,540.0	8,960.7	12,512.6	8,951.8	31.9	31.4	88.86	-3,411.5	-259.7	485.0	422.3	62.70	7.736		
12,600.0	8,960.8	12,572.6	8,951.8	32.3	31.8	88.86	-3,471.5	-260.2	485.0	421.5	63.51	7.637		
12,635.0	8,960.8	12,607.6	8,951.9	32.5	32.0	88.87	-3,506.5	-260.5	485.0	421.0	63.99	7.580		
12,700.0	8,960.9	12,672.6	8,952.0	33.0	32.5	88.87	-3,571.5	-261.1	485.0	420.1	64.88	7.476		
12,730.0	8,960.9	12,702.6	8,952.0	33.2	32.7	88.87	-3,601.5	-261.4	485.0	419.7	65.29	7.429		
12,800.0	8,961.0	12,772.6	8,952.1	33.6	33.1	88.87	-3,671.5	-262.0	485.0	418.8	66.25	7.321		
12,825.0	8,961.0	12,797.6	8,952.2	33.8	33.3	88.87	-3,696.5	-262.2	485.0	418.4	66.60	7.283		
12,900.0	8,961.1	12,872.6	8,952.3	34.3	33.8	88.88	-3,771.5	-262.9	485.0	417.4	67.63	7.171		
12,920.0	8,961.1	12,892.6	8,952.3	34.4	34.0	88.88	-3,791.5	-263.0	485.0	417.1	67.91	7.142		
13,000.0	8,961.2	12,972.6	8,952.4	35.0	34.5	88.88	-3,871.5	-263.8	485.0	416.0	69.02	7.027		
13,015.0	8,961.2	12,987.6	8,952.5	35.1	34.6	88.88	-3,886.5	-263.9	485.0	415.8	69.23	7.006		
13,100.0	8,961.3	13,072.6	8,952.6	35.7	35.2	88.88	-3,971.5	-264.6	485.0	414.6	70.41	6.888		
13,110.0	8,961.3	13,082.6	8,952.6	35.7	35.3	88.88	-3,981.5	-264.7	485.0	414.5	70.55	6.875		
13,200.0	8,961.4	13,172.6	8,952.7	36.3	35.9	88.89	-4,071.5	-265.5	485.0	413.2	71.81	6.754		
13,205.0	8,961.4	13,177.6	8,952.7	36.4	35.9	88.89	-4,076.5	-265.6	485.0	413.1	71.88	6.748		
13,300.0	8,961.6	13,272.6	8,952.9	37.0	36.6	88.89	-4,171.5	-266.4	485.0	411.8	73.21	6.625		
13,395.0	8,961.7	13,367.6	8,953.0	37.7	37.2	88.90	-4,266.5	-267.3	485.0	410.5	74.55	6.506		
13,400.0	8,961.7	13,372.6	8,953.0	37.7	37.3	88.90	-4,271.5	-267.3	485.0	410.4	74.62	6.500		
13,490.0	8,961.8	13,462.6	8,953.2	38.3	37.9	88.90	-4,361.4	-268.1	485.0	409.1	75.89	6.391		
13,500.0	8,961.8	13,472.6	8,953.2	38.4	38.0	88.90	-4,371.4	-268.2	485.0	409.0	76.04	6.379		
13,585.0	8,961.9	13,557.6	8,953.3	39.0	38.6	88.90	-4,456.4	-269.0	485.0	407.8	77.24	6.279		
13,600.0	8,961.9	13,572.6	8,953.3	39.1	38.7	88.90	-4,471.4	-269.1	485.0	407.6	77.45	6.262		
13,680.0	8,962.0	13,652.6	8,953.4	39.7	39.3	88.91	-4,551.4	-269.8	485.0	406.4	78.59	6.172		
13,700.0	8,962.0	13,672.6	8,953.5	39.8	39.4	88.91	-4,571.4	-270.0	485.0	406.2	78.88	6.149		
13,775.0	8,962.1	13,747.6	8,953.6	40.3	39.9	88.91	-4,646.4	-270.6	485.0	405.1	79.94	6.067		
13,800.0	8,962.1	13,772.6	8,953.6	40.5	40.1	88.91	-4,671.4	-270.9	485.0	404.7	80.30	6.040		
13,870.0	8,962.2	13,842.6	8,953.7	41.0	40.6	88.92	-4,741.4	-271.5	485.0	403.7	81.30	5.966		
13,900.0	8,962.2	13,872.6	8,953.8	41.2	40.8	88.92	-4,771.4	-271.7	485.0	403.3	81.73	5.935		
13,965.0	8,962.3	13,937.6	8,953.9	41.7	41.3	88.92	-4,836.4	-272.3	485.0	402.4	82.66	5.868		
14,000.0	8,962.4	13,972.6	8,953.9	41.9	41.5	88.92	-4,871.4	-272.6	485.0	401.9	83.16	5.832		
14,060.0	8,962.4	14,032.6	8,954.0	42.3	42.0	88.92	-4,931.4	-273.2	485.0	401.0	84.02	5.773		
14,100.0	8,962.5	14,072.6	8,954.1	42.6	42.2	88.92	-4,971.4	-273.5	485.0	400.4	84.60	5.733		
14,155.0	8,962.5	14,127.6	8,954.1	43.0	42.6	88.93	-5,026.4	-274.0	485.0	399.6	85.39	5.680		
14,200.0	8,962.6	14,172.6	8,954.2	43.3	43.0	88.93	-5,071.4	-274.4	485.0	399.0	86.04	5.637		
14,250.0	8,962.6	14,222.6	8,954.3	43.7	43.3	88.93	-5,121.4	-274.9	485.0	398.3	86.76	5.591		
14,300.0	8,962.7	14,272.6	8,954.4	44.0	43.7	88.93	-5,171.4	-275.3	485.0	397.5	87.48	5.544		
14,345.0	8,962.7	14,317.6	8,954.4	44.4	44.0	88.93	-5,216.4	-275.7	485.0	396.9	88.13	5.504		
14,400.0	8,962.8	14,372.6	8,954.5	44.8	44.4	88.94	-5,271.4	-276.2	485.0	396.1	88.92	5.454		

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #708H - OWB - PWP1													Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8403-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Rule Assigned:				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 Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,440.0	8,962.9	14,412.6	8,954.6	45.0	44.7	88.94	-5,311.4	-276.5	485.0	395.5	89.50	5.419		
14,500.0	8,962.9	14,472.6	8,954.7	45.5	45.1	88.94	-5,371.4	-277.1	485.0	394.7	90.37	5.367		
14,535.0	8,963.0	14,507.6	8,954.7	45.7	45.4	88.94	-5,406.4	-277.4	485.0	394.1	90.88	5.337		
14,600.0	8,963.0	14,572.6	8,954.8	46.2	45.8	88.94	-5,471.4	-278.0	485.0	393.2	91.82	5.282		
14,630.0	8,963.1	14,602.6	8,954.8	46.4	46.1	88.95	-5,501.4	-278.2	485.0	392.8	92.26	5.257		
14,700.0	8,963.2	14,672.6	8,954.9	46.9	46.6	88.95	-5,571.4	-278.8	485.0	391.8	93.28	5.200		
14,725.0	8,963.2	14,697.6	8,955.0	47.1	46.7	88.95	-5,596.4	-279.1	485.0	391.4	93.64	5.180		
14,800.0	8,963.3	14,772.6	8,955.1	47.6	47.3	88.95	-5,671.4	-279.7	485.0	390.3	94.73	5.120		
14,820.0	8,963.3	14,792.6	8,955.1	47.8	47.4	88.95	-5,691.4	-279.9	485.0	390.0	95.02	5.104		
14,900.0	8,963.4	14,872.6	8,955.2	48.4	48.0	88.96	-5,771.4	-280.6	485.0	388.8	96.19	5.043		
14,915.0	8,963.4	14,887.6	8,955.3	48.5	48.1	88.96	-5,786.4	-280.8	485.0	388.6	96.41	5.031		
15,000.0	8,963.5	14,972.6	8,955.4	49.1	48.7	88.96	-5,871.4	-281.5	485.0	387.4	97.65	4.967		
15,010.0	8,963.5	14,982.6	8,955.4	49.1	48.8	88.96	-5,881.4	-281.6	485.0	387.2	97.79	4.960		
15,100.0	8,963.6	15,072.6	8,955.5	49.8	49.5	88.96	-5,971.4	-282.4	485.0	385.9	99.11	4.894		
15,105.0	8,963.6	15,077.6	8,955.5	49.8	49.5	88.96	-5,976.4	-282.4	485.0	385.8	99.18	4.890		
15,200.0	8,963.7	15,172.6	8,955.7	50.5	50.2	88.97	-6,071.4	-283.3	485.0	384.5	100.57	4.823		
15,295.0	8,963.8	15,267.6	8,955.8	51.2	50.9	88.97	-6,166.4	-284.1	485.0	383.1	101.97	4.757		
15,300.0	8,963.8	15,272.6	8,955.8	51.3	50.9	88.97	-6,171.4	-284.2	485.0	383.0	102.04	4.753		
15,390.0	8,963.9	15,362.6	8,956.0	51.9	51.6	88.98	-6,261.4	-285.0	485.0	381.7	103.36	4.693		
15,400.0	8,963.9	15,372.6	8,956.0	52.0	51.7	88.98	-6,271.4	-285.1	485.0	381.5	103.51	4.686		
15,485.0	8,964.0	15,457.6	8,956.1	52.6	52.3	88.98	-6,356.4	-285.8	485.0	380.3	104.75	4.630		
15,500.0	8,964.1	15,472.6	8,956.1	52.7	52.4	88.98	-6,371.4	-286.0	485.0	380.1	104.98	4.620		
15,580.0	8,964.2	15,552.6	8,956.2	53.3	53.0	88.98	-6,451.4	-286.7	485.0	378.9	106.15	4.569		
15,600.0	8,964.2	15,572.6	8,956.3	53.4	53.1	88.98	-6,471.4	-286.8	485.0	378.6	106.45	4.557		
15,675.0	8,964.3	15,647.6	8,956.4	54.0	53.7	88.99	-6,546.4	-287.5	485.0	377.5	107.55	4.510		
15,700.0	8,964.3	15,672.6	8,956.4	54.2	53.9	88.99	-6,571.4	-287.7	485.0	377.1	107.92	4.494		
15,770.0	8,964.4	15,742.6	8,956.5	54.7	54.4	88.99	-6,641.4	-288.3	485.0	376.1	108.95	4.452		
15,800.0	8,964.4	15,772.6	8,956.6	54.9	54.6	88.99	-6,671.4	-288.6	485.0	375.6	109.39	4.434		
15,865.0	8,964.5	15,837.6	8,956.7	55.4	55.1	88.99	-6,736.4	-289.2	485.0	374.7	110.35	4.395		
15,900.0	8,964.5	15,872.6	8,956.7	55.6	55.4	89.00	-6,771.4	-289.5	485.0	374.2	110.87	4.375		
15,960.0	8,964.6	15,932.6	8,956.8	56.1	55.8	89.00	-6,831.3	-290.0	485.0	373.3	111.75	4.340		
16,000.0	8,964.6	15,972.6	8,956.9	56.4	56.1	89.00	-6,871.3	-290.4	485.0	372.7	112.34	4.317		
16,055.0	8,964.7	16,027.6	8,957.0	56.8	56.5	89.00	-6,926.3	-290.9	485.0	371.9	113.16	4.286		
16,100.0	8,964.7	16,072.6	8,957.0	57.1	56.8	89.00	-6,971.3	-291.3	485.0	371.2	113.82	4.261		
16,150.0	8,964.8	16,122.6	8,957.1	57.5	57.2	89.01	-7,021.3	-291.7	485.0	370.5	114.56	4.234		
16,200.0	8,964.9	16,172.6	8,957.2	57.8	57.6	89.01	-7,071.3	-292.2	485.0	369.7	115.30	4.207		
16,245.0	8,964.9	16,217.6	8,957.2	58.2	57.9	89.01	-7,116.3	-292.6	485.0	369.1	115.97	4.182		
16,300.0	8,965.0	16,272.6	8,957.3	58.6	58.3	89.01	-7,171.3	-293.1	485.0	368.2	116.78	4.153		
16,340.0	8,965.0	16,312.6	8,957.4	58.9	58.6	89.01	-7,211.3	-293.4	485.0	367.7	117.38	4.132		
16,400.0	8,965.1	16,372.6	8,957.5	59.3	59.1	89.02	-7,271.3	-293.9	485.0	366.8	118.26	4.101		
16,435.0	8,965.1	16,407.6	8,957.5	59.6	59.3	89.02	-7,306.3	-294.2	485.0	366.2	118.78	4.083		
16,500.0	8,965.2	16,472.6	8,957.6	60.1	59.8	89.02	-7,371.3	-294.8	485.0	365.3	119.75	4.050		
16,530.0	8,965.2	16,502.6	8,957.7	60.3	60.0	89.02	-7,401.3	-295.1	485.0	364.8	120.19	4.035		
16,600.0	8,965.3	16,572.6	8,957.8	60.8	60.5	89.02	-7,471.3	-295.7	485.0	363.8	121.23	4.001		
16,625.0	8,965.3	16,597.6	8,957.8	61.0	60.7	89.02	-7,496.3	-295.9	485.0	363.4	121.60	3.989		
16,700.0	8,965.4	16,672.6	8,957.9	61.5	61.3	89.03	-7,571.3	-296.6	485.0	362.3	122.72	3.952		
16,720.0	8,965.5	16,692.6	8,957.9	61.7	61.4	89.03	-7,591.3	-296.8	485.0	362.0	123.01	3.943		
16,800.0	8,965.5	16,772.6	8,958.1	62.3	62.0	89.03	-7,671.3	-297.5	485.0	360.8	124.20	3.905		
16,815.0	8,965.6	16,787.6	8,958.1	62.4	62.1	89.03	-7,686.3	-297.6	485.0	360.6	124.43	3.898		
16,900.0	8,965.7	16,872.6	8,958.2	63.0	62.8	89.04	-7,771.3	-298.4	485.0	359.3	125.69	3.859		
16,910.0	8,965.7	16,882.6	8,958.2	63.1	62.8	89.04	-7,781.3	-298.5	485.0	359.2	125.84	3.854		

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #708H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8403-r.5 MWD+IFR1+MS						Rule Assigned:				Offset Well Error:	3.0 usft	
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance						Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
17,000.0	8,965.8	16,972.6	8,958.4	63.8	63.5	89.04	-7,871.3	-299.3	485.0	357.9	127.18	3.814		
17,005.0	8,965.8	16,977.6	8,958.4	63.8	63.5	89.04	-7,876.3	-299.3	485.0	357.8	127.25	3.812		
17,100.0	8,965.9	17,072.6	8,958.5	64.5	64.3	89.04	-7,971.3	-300.2	485.0	356.4	128.67	3.770		
17,195.0	8,966.0	17,167.6	8,958.6	65.2	65.0	89.05	-8,066.3	-301.0	485.0	354.9	130.08	3.729		
17,200.0	8,966.0	17,172.6	8,958.6	65.2	65.0	89.05	-8,071.3	-301.0	485.0	354.9	130.16	3.726		
17,290.0	8,966.1	17,262.6	8,958.8	65.9	65.7	89.05	-8,161.3	-301.8	485.0	353.5	131.50	3.688		
17,300.0	8,966.1	17,272.6	8,958.8	66.0	65.7	89.05	-8,171.3	-301.9	485.0	353.4	131.65	3.684		
17,385.0	8,966.2	17,357.6	8,958.9	66.6	66.4	89.06	-8,256.3	-302.7	485.0	352.1	132.92	3.649		
17,400.0	8,966.2	17,372.6	8,958.9	66.7	66.5	89.06	-8,271.3	-302.8	485.0	351.9	133.14	3.643		
17,480.0	8,966.3	17,452.6	8,959.1	67.3	67.1	89.06	-8,351.3	-303.5	485.0	350.7	134.34	3.611		
17,500.0	8,966.3	17,472.6	8,959.1	67.5	67.2	89.06	-8,371.3	-303.7	485.0	350.4	134.63	3.603		
17,575.0	8,966.4	17,547.6	8,959.2	68.0	67.8	89.06	-8,446.3	-304.4	485.0	349.3	135.75	3.573		
17,600.0	8,966.5	17,572.6	8,959.2	68.2	68.0	89.06	-8,471.3	-304.6	485.0	348.9	136.13	3.563		
17,670.0	8,966.5	17,642.6	8,959.3	68.7	68.5	89.07	-8,541.3	-305.2	485.0	347.9	137.17	3.536		
17,700.0	8,966.6	17,672.6	8,959.4	69.0	68.7	89.07	-8,571.3	-305.5	485.0	347.4	137.62	3.524		
17,765.0	8,966.7	17,737.6	8,959.5	69.5	69.2	89.07	-8,636.3	-306.1	485.0	346.4	138.59	3.500		
17,800.0	8,966.7	17,772.6	8,959.5	69.7	69.5	89.07	-8,671.3	-306.4	485.0	345.9	139.12	3.487		
17,860.0	8,966.8	17,832.6	8,959.6	70.2	69.9	89.07	-8,731.3	-306.9	485.0	345.0	140.01	3.464		
17,900.0	8,966.8	17,872.6	8,959.7	70.5	70.2	89.08	-8,771.3	-307.3	485.0	344.4	140.61	3.449		
17,955.0	8,966.9	17,927.6	8,959.8	70.9	70.6	89.08	-8,826.3	-307.7	485.0	343.6	141.44	3.429		
18,000.0	8,966.9	17,972.6	8,959.8	71.2	71.0	89.08	-8,871.3	-308.1	485.0	342.9	142.11	3.413		
18,050.0	8,967.0	18,022.6	8,959.9	71.6	71.3	89.08	-8,921.3	-308.6	485.0	342.2	142.86	3.395		
18,100.0	8,967.0	18,072.6	8,960.0	72.0	71.7	89.08	-8,971.3	-309.0	485.0	341.4	143.61	3.378		
18,145.0	8,967.1	18,117.6	8,960.0	72.3	72.1	89.09	-9,016.3	-309.4	485.0	340.8	144.28	3.362		
18,200.0	8,967.1	18,172.6	8,960.1	72.7	72.5	89.09	-9,071.3	-309.9	485.0	339.9	145.10	3.343		
18,240.0	8,967.2	18,212.6	8,960.2	73.0	72.8	89.09	-9,111.3	-310.3	485.0	339.3	145.70	3.329		
18,300.0	8,967.3	18,272.6	8,960.3	73.4	73.2	89.09	-9,171.3	-310.8	485.0	338.4	146.60	3.309		
18,335.0	8,967.3	18,307.6	8,960.3	73.7	73.5	89.09	-9,206.3	-311.1	485.0	337.9	147.13	3.297		
18,400.0	8,967.4	18,372.6	8,960.4	74.2	74.0	89.10	-9,271.3	-311.7	485.0	336.9	148.10	3.275		
18,430.0	8,967.4	18,402.6	8,960.5	74.4	74.2	89.10	-9,301.2	-312.0	485.0	336.5	148.55	3.265		
18,500.0	8,967.5	18,472.6	8,960.6	74.9	74.7	89.10	-9,371.2	-312.6	485.0	335.4	149.60	3.242		
18,525.0	8,967.5	18,497.6	8,960.6	75.1	74.9	89.10	-9,396.2	-312.8	485.0	335.1	149.97	3.234		
18,600.0	8,967.6	18,572.6	8,960.7	75.7	75.5	89.10	-9,471.2	-313.5	485.0	333.9	151.10	3.210		
18,620.0	8,967.6	18,592.6	8,960.7	75.8	75.6	89.10	-9,491.2	-313.6	485.0	333.6	151.40	3.204		
18,700.0	8,967.7	18,672.6	8,960.9	76.4	76.2	89.11	-9,571.2	-314.4	485.0	332.4	152.60	3.178		
18,715.0	8,967.7	18,687.6	8,960.9	76.6	76.3	89.11	-9,586.2	-314.5	485.0	332.2	152.83	3.174		
18,800.0	8,967.8	18,772.6	8,961.0	77.2	77.0	89.11	-9,671.2	-315.2	485.0	330.9	154.10	3.147		
18,810.0	8,967.8	18,782.6	8,961.0	77.3	77.0	89.11	-9,681.2	-315.3	485.0	330.8	154.25	3.144		
18,900.0	8,967.9	18,872.6	8,961.2	77.9	77.7	89.12	-9,771.2	-316.1	485.0	329.4	155.60	3.117		
18,905.0	8,968.0	18,877.6	8,961.2	78.0	77.8	89.12	-9,776.2	-316.2	485.0	329.4	155.68	3.116		
19,000.0	8,968.1	18,972.6	8,961.3	78.7	78.5	89.12	-9,871.2	-317.0	485.0	327.9	157.11	3.087		
19,095.0	8,968.2	19,067.6	8,961.4	79.4	79.2	89.12	-9,966.2	-317.9	485.0	326.5	158.53	3.060		
19,100.0	8,968.2	19,072.6	8,961.5	79.4	79.2	89.12	-9,971.2	-317.9	485.0	326.4	158.61	3.058		
19,190.0	8,968.3	19,162.6	8,961.6	80.1	79.9	89.13	-10,061.2	-318.7	485.0	325.1	159.96	3.032		
19,200.0	8,968.3	19,172.6	8,961.6	80.2	80.0	89.13	-10,071.2	-318.8	485.0	324.9	160.11	3.029		
19,285.0	8,968.4	19,257.6	8,961.7	80.8	80.6	89.13	-10,156.2	-319.5	485.0	323.6	161.39	3.005		
19,300.0	8,968.4	19,272.6	8,961.8	80.9	80.7	89.13	-10,171.2	-319.7	485.0	323.4	161.62	3.001		
19,380.0	8,968.5	19,352.6	8,961.9	81.5	81.3	89.13	-10,251.2	-320.4	485.0	322.2	162.82	2.979		
19,400.0	8,968.5	19,372.6	8,961.9	81.7	81.5	89.14	-10,271.2	-320.6	485.0	321.9	163.12	2.974		
19,475.0	8,968.6	19,447.6	8,962.0	82.3	82.0	89.14	-10,346.2	-321.2	485.0	320.8	164.25	2.953		
19,500.0	8,968.6	19,472.6	8,962.0	82.4	82.2	89.14	-10,371.2	-321.5	485.0	320.4	164.62	2.946		

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #708H - OWB - PWP1													Offset Site Error: 0.0 usft		
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8403-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft		
Offset				Semi Major Axis		Offset Wellbore Centre				Rule Assigned:					
Measured	Reference	Vertical	Measured	Vertical	Reference	Offset	Highside			Distance				Warning	
Depth	Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Between	Between	Minimum	Separation		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	Centres	Ellipses	Separation	Factor		
										(usft)	(usft)	(usft)			
19,570.0	8,968.7	19,542.6	8,962.2	83.0	82.8	89.14		-10,441.2	-322.1	485.0	319.4	165.68	2.928		
19,600.0	8,968.7	19,572.6	8,962.2	83.2	83.0	89.14		-10,471.2	-322.3	485.0	318.9	166.13	2.920		
19,665.0	8,968.8	19,637.6	8,962.3	83.7	83.5	89.15		-10,536.2	-322.9	485.0	317.9	167.11	2.903		
19,700.0	8,968.9	19,672.6	8,962.3	83.9	83.7	89.15		-10,571.2	-323.2	485.0	317.4	167.63	2.893		
19,760.0	8,968.9	19,732.6	8,962.4	84.4	84.2	89.15		-10,631.2	-323.8	485.0	316.5	168.54	2.878		
19,800.0	8,969.0	19,772.6	8,962.5	84.7	84.5	89.15		-10,671.2	-324.1	485.0	315.9	169.14	2.868		
19,855.0	8,969.0	19,827.6	8,962.6	85.1	84.9	89.15		-10,726.2	-324.6	485.0	315.1	169.97	2.854		
19,900.0	8,969.1	19,872.6	8,962.6	85.5	85.2	89.16		-10,771.2	-325.0	485.0	314.4	170.65	2.842		
19,950.0	8,969.1	19,922.6	8,962.7	85.8	85.6	89.16		-10,821.2	-325.5	485.0	313.6	171.40	2.830		
20,000.0	8,969.2	19,972.6	8,962.8	86.2	86.0	89.16		-10,871.2	-325.9	485.0	312.9	172.15	2.817		
20,045.0	8,969.3	20,017.6	8,962.9	86.5	86.3	89.16		-10,916.2	-326.3	485.0	312.2	172.83	2.806		
20,100.0	8,969.3	20,072.6	8,962.9	87.0	86.8	89.16		-10,971.2	-326.8	485.0	311.4	173.66	2.793		
20,140.0	8,969.4	20,112.6	8,963.0	87.3	87.1	89.17		-11,011.2	-327.1	485.0	310.8	174.26	2.783		
20,200.0	8,969.4	20,172.6	8,963.1	87.7	87.5	89.17		-11,071.2	-327.7	485.0	309.9	175.17	2.769		
20,235.0	8,969.5	20,207.6	8,963.1	88.0	87.8	89.17		-11,106.2	-328.0	485.0	309.3	175.69	2.761		
20,300.0	8,969.5	20,272.6	8,963.2	88.5	88.3	89.17		-11,171.2	-328.6	485.0	308.4	176.67	2.745		
20,330.0	8,969.6	20,302.6	8,963.3	88.7	88.5	89.17		-11,201.2	-328.8	485.0	307.9	177.13	2.738		
20,400.0	8,969.7	20,372.6	8,963.4	89.2	89.0	89.18		-11,271.2	-329.4	485.0	306.9	178.18	2.722		
20,425.0	8,969.7	20,397.6	8,963.4	89.4	89.2	89.18		-11,296.2	-329.7	485.0	306.5	178.56	2.716		
20,500.0	8,969.8	20,472.6	8,963.5	90.0	89.8	89.18		-11,371.2	-330.3	485.0	305.3	179.69	2.699		
20,520.0	8,969.8	20,492.6	8,963.6	90.1	89.9	89.18		-11,391.2	-330.5	485.0	305.0	179.99	2.695		
20,600.0	8,969.9	20,572.6	8,963.7	90.7	90.5	89.18		-11,471.2	-331.2	485.0	303.8	181.20	2.677		
20,615.0	8,969.9	20,587.6	8,963.7	90.8	90.6	89.18		-11,486.2	-331.4	485.0	303.6	181.43	2.673		
20,700.0	8,970.0	20,672.6	8,963.8	91.5	91.3	89.19		-11,571.2	-332.1	485.0	302.3	182.71	2.655		
20,710.0	8,970.0	20,682.6	8,963.8	91.5	91.4	89.19		-11,581.2	-332.2	485.0	302.2	182.86	2.653		
20,800.0	8,970.1	20,772.6	8,964.0	92.2	92.0	89.19		-11,671.2	-333.0	485.0	300.8	184.22	2.633		
20,805.0	8,970.1	20,777.6	8,964.0	92.3	92.1	89.19		-11,676.2	-333.0	485.0	300.7	184.29	2.632		
20,900.0	8,970.2	20,872.6	8,964.1	93.0	92.8	89.20		-11,771.1	-333.9	485.0	299.3	185.73	2.612		
20,995.0	8,970.3	20,967.6	8,964.3	93.7	93.5	89.20		-11,866.1	-334.7	485.0	297.9	187.16	2.592		
21,000.0	8,970.3	20,972.6	8,964.3	93.7	93.5	89.20		-11,871.1	-334.8	485.0	297.8	187.24	2.590		
21,090.0	8,970.4	21,062.6	8,964.4	94.4	94.2	89.20		-11,961.1	-335.6	485.0	296.4	188.60	2.572		
21,100.0	8,970.5	21,072.6	8,964.4	94.5	94.3	89.20		-11,971.1	-335.7	485.0	296.3	188.75	2.570		
21,185.0	8,970.6	21,157.6	8,964.5	95.1	94.9	89.21		-12,056.1	-336.4	485.0	295.0	190.03	2.552		
21,200.0	8,970.6	21,172.6	8,964.6	95.2	95.1	89.21		-12,071.1	-336.5	485.0	294.8	190.26	2.549		
21,280.0	8,970.7	21,252.6	8,964.7	95.8	95.7	89.21		-12,151.1	-337.3	485.0	293.6	191.47	2.533		
21,300.0	8,970.7	21,272.6	8,964.7	96.0	95.8	89.21		-12,171.1	-337.4	485.0	293.3	191.77	2.529		
21,375.0	8,970.8	21,347.6	8,964.8	96.6	96.4	89.21		-12,246.1	-338.1	485.0	292.1	192.90	2.514		
21,400.0	8,970.8	21,372.6	8,964.9	96.8	96.6	89.22		-12,271.1	-338.3	485.0	291.8	193.28	2.510		
21,470.0	8,970.9	21,442.6	8,965.0	97.3	97.1	89.22		-12,341.1	-338.9	485.0	290.7	194.34	2.496		
21,500.0	8,970.9	21,472.6	8,965.0	97.5	97.3	89.22		-12,371.1	-339.2	485.0	290.2	194.79	2.490		
21,565.0	8,971.0	21,537.6	8,965.1	98.0	97.8	89.22		-12,436.1	-339.8	485.0	289.3	195.77	2.478		
21,600.0	8,971.0	21,572.6	8,965.2	98.3	98.1	89.22		-12,471.1	-340.1	485.0	288.7	196.30	2.471		
21,660.0	8,971.1	21,632.6	8,965.2	98.7	98.5	89.23		-12,531.1	-340.6	485.0	287.8	197.21	2.460		
21,700.0	8,971.1	21,672.6	8,965.3	99.0	98.8	89.23		-12,571.1	-341.0	485.0	287.2	197.82	2.452		
21,755.0	8,971.2	21,727.6	8,965.4	99.4	99.3	89.23		-12,626.1	-341.5	485.0	286.4	198.65	2.442		
21,800.0	8,971.3	21,772.6	8,965.5	99.8	99.6	89.23		-12,671.1	-341.9	485.0	285.7	199.33	2.433		
21,850.0	8,971.3	21,822.6	8,965.5	100.2	100.0	89.23		-12,721.1	-342.3	485.0	285.0	200.08	2.424		
21,900.0	8,971.4	21,872.6	8,965.6	100.5	100.3	89.24		-12,771.1	-342.8	485.0	284.2	200.84	2.415		
21,945.0	8,971.4	21,917.6	8,965.7	100.9	100.7	89.24		-12,816.1	-343.2	485.0	283.5	201.52	2.407		
22,000.0	8,971.5	21,972.6	8,965.7	101.3	101.1	89.24		-12,871.1	-343.6	485.0	282.7	202.35	2.397		
22,040.0	8,971.5	22,012.6	8,965.8	101.6	101.4	89.24		-12,911.1	-344.0	485.0	282.1	202.96	2.390		

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #708H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8403-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Vertical	Offset	Semi Major Axis	Reference	Offset	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning
Measured Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor	
22,100.0	8,971.6	22,072.6	8,965.9	102.0	101.9	89.24	-12,971.1	-344.5	485.0	281.2	203.87	2.379	
22,135.0	8,971.6	22,107.6	8,965.9	102.3	102.1	89.24	-13,006.1	-344.8	485.0	280.6	204.39	2.373	
22,200.0	8,971.7	22,172.6	8,966.0	102.8	102.6	89.25	-13,071.1	-345.4	485.0	279.7	205.38	2.362	
22,230.0	8,971.8	22,202.6	8,966.1	103.0	102.8	89.25	-13,101.1	-345.7	485.0	279.2	205.83	2.356	
22,300.0	8,971.8	22,272.6	8,966.2	103.6	103.4	89.25	-13,171.1	-346.3	485.0	278.2	206.89	2.344	
22,325.0	8,971.9	22,297.6	8,966.2	103.7	103.6	89.25	-13,196.1	-346.5	485.0	277.8	207.27	2.340	
22,400.0	8,971.9	22,372.6	8,966.3	104.3	104.1	89.26	-13,271.1	-347.2	485.0	276.6	208.41	2.327	
22,420.0	8,972.0	22,392.6	8,966.4	104.5	104.3	89.26	-13,291.1	-347.4	485.0	276.3	208.71	2.324	
22,500.0	8,972.1	22,472.6	8,966.5	105.1	104.9	89.26	-13,371.1	-348.1	485.0	275.1	209.92	2.311	
22,515.0	8,972.1	22,487.6	8,966.5	105.2	105.0	89.26	-13,386.1	-348.2	485.0	274.9	210.15	2.308	
22,600.0	8,972.2	22,572.6	8,966.6	105.8	105.6	89.26	-13,471.1	-349.0	485.0	273.6	211.43	2.294	
22,610.0	8,972.2	22,582.6	8,966.7	105.9	105.7	89.26	-13,481.1	-349.1	485.0	273.5	211.58	2.292	
22,700.0	8,972.3	22,672.6	8,966.8	106.6	106.4	89.27	-13,571.1	-349.9	485.0	272.1	212.95	2.278	
22,705.0	8,972.3	22,677.6	8,966.8	106.6	106.4	89.27	-13,576.1	-349.9	485.0	272.0	213.02	2.277	
22,800.0	8,972.4	22,772.6	8,966.9	107.3	107.2	89.27	-13,671.1	-350.7	485.0	270.6	214.46	2.262	
22,895.0	8,972.5	22,867.6	8,967.1	108.1	107.9	89.27	-13,766.1	-351.6	485.0	269.1	215.90	2.247	
22,900.0	8,972.5	22,872.6	8,967.1	108.1	107.9	89.27	-13,771.1	-351.6	485.0	269.1	215.98	2.246	
22,990.0	8,972.6	22,962.6	8,967.2	108.8	108.6	89.28	-13,861.1	-352.4	485.0	267.7	217.34	2.232	
23,000.0	8,972.6	22,972.6	8,967.2	108.8	108.7	89.28	-13,871.1	-352.5	485.0	267.6	217.49	2.230	
23,085.0	8,972.7	23,057.6	8,967.4	109.5	109.3	89.28	-13,956.1	-353.3	485.0	266.3	218.78	2.217	
23,100.0	8,972.7	23,072.6	8,967.4	109.6	109.4	89.28	-13,971.1	-353.4	485.0	266.0	219.01	2.215	
23,180.0	8,972.8	23,152.6	8,967.5	110.2	110.0	89.29	-14,051.1	-354.1	485.0	264.8	220.22	2.203	
23,200.0	8,972.9	23,172.6	8,967.5	110.4	110.2	89.29	-14,071.1	-354.3	485.0	264.5	220.52	2.200	
23,275.0	8,972.9	23,247.6	8,967.6	110.9	110.8	89.29	-14,146.1	-355.0	485.0	263.4	221.66	2.188	
23,300.0	8,973.0	23,272.6	8,967.7	111.1	111.0	89.29	-14,171.1	-355.2	485.0	263.0	222.04	2.185	
23,370.0	8,973.1	23,342.6	8,967.8	111.6	111.5	89.29	-14,241.0	-355.8	485.0	261.9	223.10	2.174	
23,400.0	8,973.1	23,372.6	8,967.8	111.9	111.7	89.29	-14,271.0	-356.1	485.0	261.5	223.55	2.170	
23,465.0	8,973.2	23,437.6	8,967.9	112.4	112.2	89.30	-14,336.0	-356.7	485.0	260.5	224.54	2.160	
23,500.0	8,973.2	23,472.6	8,968.0	112.6	112.5	89.30	-14,371.0	-357.0	485.0	260.0	225.07	2.155	
23,560.0	8,973.3	23,532.6	8,968.1	113.1	112.9	89.30	-14,431.0	-357.5	485.0	259.1	225.98	2.146	
23,600.0	8,973.3	23,572.6	8,968.1	113.4	113.2	89.30	-14,471.0	-357.8	485.0	258.5	226.58	2.141	
23,655.0	8,973.4	23,627.6	8,968.2	113.8	113.6	89.31	-14,526.0	-358.3	485.0	257.6	227.42	2.133	
23,700.0	8,973.4	23,672.6	8,968.3	114.1	114.0	89.31	-14,571.0	-358.7	485.0	256.9	228.10	2.126	
23,750.0	8,973.5	23,722.6	8,968.3	114.5	114.4	89.31	-14,621.0	-359.2	485.0	256.2	228.86	2.119	
23,800.0	8,973.5	23,772.6	8,968.4	114.9	114.7	89.31	-14,671.0	-359.6	485.0	255.4	229.61	2.112	
23,845.0	8,973.6	23,817.6	8,968.5	115.2	115.1	89.31	-14,716.0	-360.0	485.0	254.8	230.30	2.106	
23,900.0	8,973.7	23,872.6	8,968.6	115.7	115.5	89.31	-14,771.0	-360.5	485.0	253.9	231.13	2.099	
23,940.0	8,973.7	23,912.6	8,968.6	116.0	115.8	89.32	-14,811.0	-360.9	485.0	253.3	231.74	2.093	
24,000.0	8,973.8	23,972.6	8,968.7	116.4	116.3	89.32	-14,871.0	-361.4	485.0	252.4	232.65	2.085	
24,035.0	8,973.8	24,007.6	8,968.8	116.7	116.5	89.32	-14,906.0	-361.7	485.0	251.9	233.18	2.080	
24,067.0	8,973.9	24,039.6	8,968.8	116.9	116.8	89.32	-14,938.0	-362.0	485.0	251.4	233.66	2.076	
24,100.0	8,973.9	24,072.6	8,968.9	117.2	117.0	89.32	-14,971.0	-362.3	485.0	250.9	234.16	2.071	
24,130.0	8,973.9	24,102.6	8,968.9	117.4	117.2	89.32	-15,001.0	-362.6	485.0	250.4	234.62	2.067	
24,197.0	8,974.0	24,169.6	8,969.0	117.9	117.7	89.33	-15,068.0	-363.1	485.0	249.4	235.63	2.059	
24,197.9	8,974.0	24,170.5	8,969.0	117.9	117.8	89.33	-15,069.0	-363.2	485.0	249.4	235.64	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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #709H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8448-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		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	
0.0	0.0	1.4	1.4	3.0	3.0	-91.05	-1.1	-60.0	60.0				
95.0	95.0	96.4	96.4	3.0	3.0	-91.05	-1.1	-60.0	60.0	54.0	6.04	9.941	
100.0	100.0	101.4	101.4	3.0	3.0	-91.05	-1.1	-60.0	60.0	54.0	6.04	9.932	
190.0	190.0	191.4	191.4	3.1	3.1	-91.05	-1.1	-60.0	60.0	53.8	6.25	9.595	
200.0	200.0	201.4	201.4	3.1	3.1	-91.05	-1.1	-60.0	60.0	53.7	6.29	9.544	
285.0	285.0	286.4	286.4	3.3	3.3	-91.05	-1.1	-60.0	60.0	53.5	6.48	9.254	
300.0	300.0	301.4	301.4	3.3	3.3	-91.05	-1.1	-60.0	60.0	53.5	6.52	9.199	
380.0	380.0	381.4	381.4	3.4	3.4	-91.05	-1.1	-60.0	60.0	53.3	6.70	8.952	
400.0	400.0	401.4	401.4	3.4	3.4	-91.05	-1.1	-60.0	60.0	53.3	6.75	8.888	
475.0	475.0	476.4	476.4	3.5	3.5	-91.05	-1.1	-60.0	60.0	53.1	6.92	8.678	
500.0	500.0	501.4	501.4	3.5	3.5	-91.05	-1.1	-60.0	60.0	53.0	6.97	8.607	
570.0	570.0	571.4	571.4	3.6	3.6	-91.05	-1.1	-60.0	60.0	52.9	7.12	8.428	
600.0	600.0	601.4	601.4	3.6	3.6	-91.05	-1.1	-60.0	60.0	52.8	7.19	8.351	
665.0	665.0	666.4	666.4	3.7	3.7	-91.05	-1.1	-60.0	60.0	52.7	7.32	8.199	
700.0	700.0	701.4	701.4	3.8	3.8	-91.05	-1.1	-60.0	60.0	52.6	7.39	8.117	
760.0	760.0	761.4	761.4	3.8	3.8	-91.05	-1.1	-60.0	60.0	52.5	7.51	7.987	
800.0	800.0	801.4	801.4	3.9	3.9	-91.05	-1.1	-60.0	60.0	52.4	7.60	7.901	
855.0	855.0	856.4	856.4	4.0	4.0	-91.05	-1.1	-60.0	60.0	52.3	7.70	7.791	
900.0	900.0	901.4	901.4	4.0	4.0	-91.05	-1.1	-60.0	60.0	52.2	7.79	7.702	
950.0	950.0	951.4	951.4	4.1	4.1	-91.05	-1.1	-60.0	60.0	52.1	7.89	7.609	
1,000.0	1,000.0	1,001.4	1,001.4	4.1	4.1	-91.05	-1.1	-60.0	60.0	52.0	7.98	7.517	
1,045.0	1,045.0	1,046.4	1,046.4	4.2	4.2	-91.05	-1.1	-60.0	60.0	51.9	8.07	7.439	
1,100.0	1,100.0	1,101.4	1,101.4	4.2	4.2	-91.05	-1.1	-60.0	60.0	51.8	8.17	7.344	
1,140.0	1,140.0	1,141.4	1,141.4	4.3	4.3	-91.05	-1.1	-60.0	60.0	51.8	8.24	7.280	
1,200.0	1,200.0	1,201.4	1,201.4	4.4	4.4	-91.05	-1.1	-60.0	60.0	51.7	8.35	7.183	
1,235.0	1,235.0	1,236.4	1,236.4	4.4	4.4	-91.05	-1.1	-60.0	60.0	51.6	8.42	7.130	
1,300.0	1,300.0	1,301.4	1,301.4	4.5	4.5	-91.05	-1.1	-60.0	60.0	51.5	8.53	7.033	
1,330.0	1,330.0	1,331.4	1,331.4	4.5	4.5	-91.05	-1.1	-60.0	60.0	51.4	8.59	6.990	
1,400.0	1,400.0	1,401.4	1,401.4	4.6	4.6	-91.05	-1.1	-60.0	60.0	51.3	8.71	6.891	
1,425.0	1,425.0	1,426.4	1,426.4	4.6	4.6	-91.05	-1.1	-60.0	60.0	51.3	8.75	6.857	
1,437.0	1,437.0	1,438.4	1,438.4	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	1,501.4	1,501.4	4.7	4.7	-91.05	-1.1	-60.0	60.0	51.1	8.88	6.757 ES	
1,520.0	1,520.0	1,521.0	1,521.0	4.8	4.7	-125.36	-1.1	-60.1	60.1	51.2	8.94	6.727	
1,600.0	1,600.0	1,600.0	1,600.0	4.9	4.9	-125.79	-0.2	-61.5	62.5	53.4	9.16	6.825	
1,615.0	1,615.0	1,614.2	1,614.2	4.9	4.9	-125.93	0.0	-62.0	63.4	54.1	9.23	6.866	
1,700.0	1,699.8	1,697.3	1,697.1	5.1	5.1	-126.95	2.2	-65.9	70.1	60.5	9.60	7.297	
1,710.0	1,709.8	1,707.0	1,706.9	5.2	5.1	-127.09	2.5	-66.5	71.1	61.5	9.65	7.370	
1,800.0	1,799.5	1,794.3	1,793.8	5.4	5.3	-128.41	6.3	-73.2	82.6	72.6	10.05	8.219	
1,805.0	1,804.4	1,800.0	1,799.5	5.4	5.3	-128.50	6.6	-73.7	83.4	73.3	10.08	8.270	
1,900.0	1,898.7	1,890.2	1,889.0	5.7	5.6	-129.79	11.8	-83.2	100.1	89.6	10.51	9.525	
1,950.1	1,948.2	1,937.7	1,936.0	5.8	5.7	-130.40	15.2	-89.1	110.8	100.1	10.69	10.356	
1,995.0	1,992.6	1,980.0	1,977.8	5.9	5.9	-130.92	18.5	-95.0	121.1	110.2	10.86	11.154	
2,000.0	1,997.5	1,984.7	1,982.4	5.9	5.9	-130.96	18.8	-95.7	122.3	111.4	10.88	11.244	
2,090.0	2,086.4	2,068.8	2,065.0	6.1	6.2	-131.27	26.3	-109.1	144.7	133.4	11.28	12.832	
2,100.0	2,096.3	2,078.0	2,074.1	6.1	6.2	-131.26	27.2	-110.7	147.3	136.0	11.32	13.012	
2,185.0	2,180.3	2,156.3	2,150.6	6.4	6.5	-130.95	35.4	-125.4	170.5	158.8	11.71	14.565	
2,200.0	2,195.1	2,170.0	2,164.0	6.4	6.5	-130.86	36.9	-128.1	174.8	163.1	11.78	14.845	
2,280.0	2,274.1	2,245.0	2,236.7	6.7	6.8	-130.28	45.7	-143.8	198.4	186.2	12.15	16.321	
2,300.0	2,293.8	2,264.1	2,255.2	6.7	6.8	-130.15	47.9	-147.8	204.3	192.0	12.25	16.677	
2,375.0	2,367.9	2,335.7	2,324.7	7.0	7.1	-129.71	56.4	-163.0	226.5	213.9	12.62	17.948	
2,400.0	2,392.6	2,359.6	2,347.9	7.0	7.1	-129.59	59.2	-168.0	233.9	221.1	12.74	18.353	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #709H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8448-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Rule Assigned:														
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
								+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
2,470.0	2,461.7	2,426.4	2,412.7	7.3	7.4	-129.27		67.1	-182.1	254.6	241.5	13.10	19.433	
2,500.0	2,491.4	2,455.1	2,440.5	7.4	7.5	-129.15		70.5	-188.2	263.5	250.2	13.26	19.874	
2,565.0	2,555.6	2,517.1	2,500.8	7.6	7.7	-128.91		77.8	-201.3	282.8	269.2	13.60	20.787	
2,600.0	2,590.1	2,550.6	2,533.2	7.7	7.8	-128.80		81.7	-208.4	293.1	279.3	13.79	21.255	
2,660.0	2,649.4	2,607.9	2,588.8	7.9	8.0	-128.62		88.5	-220.5	310.9	296.8	14.12	22.023	
2,700.0	2,688.9	2,646.1	2,625.9	8.1	8.1	-128.51		93.0	-228.5	322.8	308.4	14.34	22.510	
2,755.0	2,743.2	2,698.6	2,676.8	8.2	8.3	-128.38		99.2	-239.6	339.1	324.4	14.65	23.151	
2,800.0	2,787.7	2,741.5	2,718.5	8.4	8.5	-128.28		104.3	-248.7	352.4	337.5	14.90	23.650	
2,850.0	2,837.1	2,789.3	2,764.8	8.6	8.7	-128.17		109.9	-258.8	367.2	352.0	15.19	24.181	
2,900.0	2,886.5	2,837.0	2,811.2	8.8	8.9	-128.08		115.5	-268.9	382.1	366.6	15.48	24.688	
2,945.0	2,930.9	2,880.0	2,852.9	8.9	9.1	-128.00		120.6	-278.0	395.4	379.7	15.74	25.124	
3,000.0	2,985.2	2,932.5	2,903.8	9.2	9.3	-127.91		126.8	-289.1	411.7	395.7	16.06	25.634	
3,040.0	3,024.7	2,970.7	2,940.9	9.3	9.4	-127.84		131.3	-297.1	423.6	407.3	16.30	25.989	
3,100.0	3,084.0	3,028.0	2,996.5	9.5	9.7	-127.76		138.0	-309.2	441.4	424.7	16.66	26.498	
3,135.0	3,118.6	3,061.5	3,028.9	9.7	9.8	-127.71		142.0	-316.3	451.7	434.9	16.87	26.783	
3,200.0	3,182.8	3,123.5	3,089.1	9.9	10.0	-127.63		149.3	-329.4	471.0	453.8	17.26	27.290	
3,230.0	3,212.4	3,152.2	3,116.9	10.0	10.2	-127.59		152.7	-335.5	479.9	462.5	17.44	27.513	
3,300.0	3,281.5	3,219.0	3,181.8	10.3	10.4	-127.51		160.6	-349.6	500.7	482.8	17.87	28.015	
3,325.0	3,306.2	3,242.9	3,205.0	10.4	10.6	-127.49		163.4	-354.6	508.1	490.1	18.03	28.187	
3,400.0	3,380.3	3,314.5	3,274.5	10.7	10.9	-127.41		171.8	-369.8	530.3	511.9	18.49	28.682	
3,420.0	3,400.0	3,333.6	3,293.0	10.8	10.9	-127.39		174.1	-373.8	536.3	517.7	18.62	28.808	
3,500.0	3,479.1	3,410.0	3,367.1	11.1	11.3	-127.32		183.1	-389.9	560.0	540.9	19.12	29.296	
3,515.0	3,493.9	3,424.3	3,381.0	11.2	11.3	-127.31		184.8	-393.0	564.5	545.3	19.21	29.384	
3,600.0	3,577.8	3,505.5	3,459.8	11.5	11.7	-127.24		194.4	-410.1	589.7	569.9	19.75	29.862	
3,610.0	3,587.7	3,515.1	3,469.0	11.5	11.7	-127.23		195.5	-412.1	592.6	572.8	19.81	29.916	
3,700.0	3,676.6	3,601.0	3,552.4	11.9	12.1	-127.17		205.6	-430.3	619.3	599.0	20.38	30.386	
3,705.0	3,681.5	3,605.8	3,557.1	11.9	12.1	-127.16		206.2	-431.3	620.8	600.4	20.41	30.411	
3,800.0	3,775.4	3,696.5	3,645.1	12.3	12.5	-127.10		216.9	-450.5	649.0	628.0	21.02	30.871	
3,895.0	3,869.2	3,787.2	3,733.1	12.7	12.9	-127.04		227.6	-469.6	677.2	655.6	21.64	31.300	
3,900.0	3,874.1	3,792.0	3,737.8	12.7	13.0	-127.04		228.1	-470.6	678.7	657.0	21.67	31.322	
3,990.0	3,963.0	3,877.9	3,821.1	13.1	13.3	-126.99		238.3	-488.8	705.4	683.1	22.25	31.700	
4,000.0	3,972.9	3,887.5	3,830.4	13.1	13.4	-126.98		239.4	-490.8	708.3	686.0	22.32	31.740	
4,085.0	4,056.9	3,968.7	3,909.2	13.5	13.8	-126.94		249.0	-508.0	733.6	710.7	22.87	32.074	
4,100.0	4,071.7	3,983.0	3,923.1	13.6	13.8	-126.93		250.7	-511.0	738.0	715.0	22.97	32.130	
4,180.0	4,150.7	4,059.4	3,997.2	13.9	14.2	-126.89		259.7	-527.1	761.7	738.2	23.49	32.424	
4,200.0	4,170.4	4,078.5	4,015.7	14.0	14.3	-126.88		261.9	-531.2	767.7	744.1	23.62	32.495	
4,210.2	4,180.5	4,088.2	4,025.2	14.0	14.3	-126.88		263.1	-533.2	770.7	747.0	23.69	32.538	
4,275.0	4,244.6	4,150.2	4,085.3	14.3	14.6	-126.98		270.4	-546.3	789.7	765.6	24.10	32.762	
4,300.0	4,269.3	4,174.1	4,108.5	14.4	14.7	-127.01		273.2	-551.4	796.9	772.7	24.27	32.842	
4,370.0	4,338.7	4,241.2	4,173.6	14.7	15.0	-127.06		281.1	-565.5	816.8	792.1	24.72	33.042	
4,400.0	4,368.4	4,270.0	4,201.5	14.8	15.1	-127.07		284.5	-571.6	825.2	800.3	24.92	33.119	
4,465.0	4,433.0	4,332.5	4,262.1	15.0	15.4	-127.05		291.9	-584.8	843.0	817.7	25.33	33.276	
4,500.0	4,467.8	4,366.1	4,294.8	15.2	15.6	-127.03		295.9	-591.9	852.5	826.9	25.56	33.352	
4,560.0	4,527.5	4,423.9	4,350.9	15.4	15.8	-126.96		302.7	-604.1	868.4	842.4	25.94	33.473	
4,600.0	4,567.3	4,462.5	4,388.3	15.6	16.0	-126.90		307.2	-612.3	878.8	852.6	26.20	33.545	
4,655.0	4,622.1	4,515.6	4,439.8	15.8	16.3	-126.80		313.5	-623.5	892.8	866.3	26.54	33.640	
4,700.0	4,667.0	4,559.0	4,482.0	15.9	16.5	-126.70		318.6	-632.7	904.1	877.2	26.82	33.714	
4,750.0	4,716.9	4,618.2	4,539.5	16.1	16.7	-126.52		325.5	-644.9	916.2	889.0	27.19	33.695	
4,800.0	4,766.8	4,685.3	4,605.0	16.3	17.1	-126.33		332.6	-657.7	927.2	899.5	27.63	33.555	
4,845.0	4,811.7	4,746.4	4,664.9	16.4	17.3	-126.16		338.4	-668.1	936.0	908.0	28.01	33.416	
4,900.0	4,866.7	4,821.7	4,739.1	16.6	17.7	-125.98		344.7	-679.4	945.5	917.0	28.46	33.219	

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #709H - OWB - PWP1													Offset Site Error: 0.0 usft		
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8448-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft		
Reference Offset				Semi Major Axis		Offset Wellbore Centre				Rule Assigned: Distance				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	4,906.6	4,877.0	4,793.7	16.7	17.9	-125.86	348.7	-686.6	951.4	922.6	28.77	33.069			
5,000.0	4,966.6	4,960.4	4,876.5	16.9	18.3	-125.70	353.8	-695.7	958.7	929.5	29.21	32.822			
5,035.0	5,001.6	5,009.3	4,925.2	17.0	18.5	-125.61	356.2	-700.1	962.1	932.7	29.44	32.678			
5,100.0	5,066.6	5,100.7	5,016.2	17.1	18.9	-125.47	359.7	-706.3	966.8	936.9	29.84	32.395			
5,110.4	5,077.0	5,115.3	5,030.8	17.1	18.9	-91.15	360.1	-707.0	967.3	937.4	29.89	32.364			
5,130.0	5,096.6	5,143.0	5,058.4	17.1	19.0	-91.11	360.8	-708.3	968.2	938.2	29.98	32.298			
5,200.0	5,166.6	5,241.8	5,157.3	17.2	19.3	-91.02	362.3	-710.9	970.0	939.8	30.21	32.105			
5,225.0	5,191.6	5,277.2	5,192.6	17.2	19.3	-91.02	362.4	-711.1	970.2	939.9	30.26	32.058			
5,300.0	5,266.6	5,352.6	5,268.0	17.2	19.4	-91.02	362.4	-711.1	970.2	939.8	30.34	31.972			
5,320.0	5,286.6	5,372.6	5,288.0	17.2	19.4	-91.02	362.4	-711.1	970.2	939.8	30.37	31.947			
5,400.0	5,366.6	5,452.6	5,368.0	17.3	19.4	-91.02	362.4	-711.1	970.2	939.7	30.46	31.847			
5,415.0	5,381.6	5,467.6	5,383.0	17.3	19.4	-91.02	362.4	-711.1	970.2	939.7	30.48	31.829			
5,500.0	5,466.6	5,552.6	5,468.0	17.3	19.5	-91.02	362.4	-711.1	970.2	939.6	30.58	31.724			
5,510.0	5,476.6	5,562.6	5,478.0	17.4	19.5	-91.02	362.4	-711.1	970.2	939.6	30.59	31.712			
5,600.0	5,566.6	5,652.6	5,568.0	17.4	19.5	-91.02	362.4	-711.1	970.2	939.5	30.70	31.601			
5,605.0	5,571.6	5,657.6	5,573.0	17.4	19.5	-91.02	362.4	-711.1	970.2	939.4	30.71	31.595			
5,700.0	5,666.6	5,752.6	5,668.0	17.5	19.5	-91.02	362.4	-711.1	970.2	939.3	30.82	31.478			
5,795.0	5,761.6	5,847.6	5,763.0	17.5	19.6	-91.02	362.4	-711.1	970.2	939.2	30.93	31.363			
5,800.0	5,766.6	5,852.6	5,768.0	17.5	19.6	-91.02	362.4	-711.1	970.2	939.2	30.94	31.356			
5,890.0	5,856.6	5,942.6	5,858.0	17.6	19.6	-91.02	362.4	-711.1	970.2	939.1	31.05	31.247			
5,900.0	5,866.6	5,952.6	5,868.0	17.6	19.6	-91.02	362.4	-711.1	970.2	939.1	31.06	31.235			
5,985.0	5,951.6	6,037.6	5,953.0	17.6	19.7	-91.02	362.4	-711.1	970.2	939.0	31.16	31.133			
6,000.0	5,966.6	6,052.6	5,968.0	17.6	19.7	-91.02	362.4	-711.1	970.2	939.0	31.18	31.114			
6,080.0	6,046.6	6,132.6	6,048.0	17.7	19.7	-91.02	362.4	-711.1	970.2	938.9	31.28	31.018			
6,100.0	6,066.6	6,152.6	6,068.0	17.7	19.7	-91.02	362.4	-711.1	970.2	938.9	31.30	30.994			
6,175.0	6,141.6	6,227.6	6,143.0	17.7	19.8	-91.02	362.4	-711.1	970.2	938.8	31.39	30.905			
6,200.0	6,166.6	6,252.6	6,168.0	17.7	19.8	-91.02	362.4	-711.1	970.2	938.7	31.42	30.875			
6,270.0	6,236.6	6,322.6	6,238.0	17.8	19.8	-91.02	362.4	-711.1	970.2	938.6	31.51	30.791			
6,300.0	6,266.6	6,352.6	6,268.0	17.8	19.8	-91.02	362.4	-711.1	970.2	938.6	31.54	30.756			
6,365.0	6,331.6	6,417.6	6,333.0	17.8	19.9	-91.02	362.4	-711.1	970.2	938.5	31.62	30.679			
6,400.0	6,366.6	6,452.6	6,368.0	17.8	19.9	-91.02	362.4	-711.1	970.2	938.5	31.67	30.637			
6,460.0	6,426.6	6,512.6	6,428.0	17.9	19.9	-91.02	362.4	-711.1	970.2	938.4	31.74	30.567			
6,500.0	6,466.6	6,552.6	6,468.0	17.9	19.9	-91.02	362.4	-711.1	970.2	938.4	31.79	30.519			
6,555.0	6,521.6	6,607.6	6,523.0	17.9	19.9	-91.02	362.4	-711.1	970.2	938.3	31.86	30.455			
6,600.0	6,566.6	6,652.6	6,568.0	18.0	20.0	-91.02	362.4	-711.1	970.2	938.2	31.91	30.402			
6,650.0	6,616.6	6,702.6	6,618.0	18.0	20.0	-91.02	362.4	-711.1	970.2	938.2	31.97	30.344			
6,700.0	6,666.6	6,752.6	6,668.0	18.0	20.0	-91.02	362.4	-711.1	970.2	938.1	32.03	30.286			
6,745.0	6,711.6	6,797.6	6,713.0	18.0	20.0	-91.02	362.4	-711.1	970.2	938.1	32.09	30.233			
6,800.0	6,766.6	6,852.6	6,768.0	18.1	20.1	-91.02	362.4	-711.1	970.2	938.0	32.16	30.170			
6,840.0	6,806.6	6,892.6	6,808.0	18.1	20.1	-91.02	362.4	-711.1	970.2	937.9	32.21	30.123			
6,900.0	6,866.6	6,952.6	6,868.0	18.1	20.1	-91.02	362.4	-711.1	970.2	937.9	32.28	30.054			
6,935.0	6,901.6	6,987.6	6,903.0	18.2	20.1	-91.02	362.4	-711.1	970.2	937.8	32.32	30.014			
7,000.0	6,966.6	7,052.6	6,968.0	18.2	20.2	-91.02	362.4	-711.1	970.2	937.7	32.40	29.939			
7,030.0	6,996.6	7,082.6	6,998.0	18.2	20.2	-91.02	362.4	-711.1	970.2	937.7	32.44	29.905			
7,100.0	7,066.6	7,152.6	7,068.0	18.2	20.2	-91.02	362.4	-711.1	970.2	937.6	32.53	29.825			
7,125.0	7,091.6	7,177.6	7,093.0	18.3	20.2	-91.02	362.4	-711.1	970.2	937.6	32.56	29.796			
7,200.0	7,166.6	7,252.6	7,168.0	18.3	20.2	-91.02	362.4	-711.1	970.2	937.5	32.65	29.711			
7,220.0	7,186.6	7,272.6	7,188.0	18.3	20.3	-91.02	362.4	-711.1	970.2	937.5	32.68	29.688			
7,300.0	7,266.6	7,352.6	7,268.0	18.4	20.3	-91.02	362.4	-711.1	970.2	937.4	32.78	29.598			
7,315.0	7,281.6	7,367.6	7,283.0	18.4	20.3	-91.02	362.4	-711.1	970.2	937.4	32.80	29.581			
7,400.0	7,366.6	7,452.6	7,368.0	18.4	20.3	-91.02	362.4	-711.1	970.2	937.2	32.90	29.485			

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 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	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Distance	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)	(usft)		
7,410.0	7,376.6	7,462.6	7,378.0	18.4	20.4	-91.02	362.4	-711.1	970.2	937.2	32.92	29.474	
7,500.0	7,466.6	7,552.6	7,468.0	18.5	20.4	-91.02	362.4	-711.1	970.2	937.1	33.03	29.373	
7,505.0	7,471.6	7,557.6	7,473.0	18.5	20.4	-91.02	362.4	-711.1	970.2	937.1	33.03	29.368	
7,600.0	7,566.6	7,652.6	7,568.0	18.5	20.4	-91.02	362.4	-711.1	970.2	937.0	33.15	29.262	
7,695.0	7,661.6	7,747.6	7,663.0	18.6	20.5	-91.02	362.4	-711.1	970.2	936.9	33.27	29.157	
7,700.0	7,666.6	7,752.6	7,668.0	18.6	20.5	-91.02	362.4	-711.1	970.2	936.9	33.28	29.151	
7,790.0	7,756.6	7,842.6	7,758.0	18.6	20.5	-91.02	362.4	-711.1	970.2	936.8	33.39	29.052	
7,800.0	7,766.6	7,852.6	7,768.0	18.7	20.5	-91.02	362.4	-711.1	970.2	936.7	33.41	29.041	
7,885.0	7,851.6	7,937.6	7,853.0	18.7	20.6	-91.02	362.4	-711.1	970.2	936.6	33.51	28.948	
7,900.0	7,866.6	7,952.6	7,868.0	18.7	20.6	-91.02	362.4	-711.1	970.2	936.6	33.53	28.931	
7,980.0	7,946.6	8,032.6	7,948.0	18.8	20.6	-91.02	362.4	-711.1	970.2	936.5	33.63	28.844	
8,000.0	7,966.6	8,052.6	7,968.0	18.8	20.6	-91.02	362.4	-711.1	970.2	936.5	33.66	28.822	
8,075.0	8,041.6	8,127.6	8,043.0	18.8	20.7	-91.02	362.4	-711.1	970.2	936.4	33.76	28.741	
8,100.0	8,066.6	8,152.6	8,068.0	18.8	20.7	-91.02	362.4	-711.1	970.2	936.4	33.79	28.714	
8,170.0	8,136.6	8,222.6	8,138.0	18.9	20.7	-91.02	362.4	-711.1	970.2	936.3	33.88	28.638	
8,200.0	8,166.6	8,252.6	8,168.0	18.9	20.7	-91.02	362.4	-711.1	970.2	936.2	33.91	28.606	
8,265.0	8,231.6	8,317.6	8,233.0	18.9	20.8	-91.02	362.4	-711.1	970.2	936.2	34.00	28.536	
8,300.0	8,266.6	8,352.6	8,268.0	19.0	20.8	-91.02	362.4	-711.1	970.2	936.1	34.04	28.499	
8,360.0	8,326.6	8,412.6	8,328.0	19.0	20.8	-91.02	362.4	-711.1	970.2	936.0	34.12	28.438	
8,364.8	8,331.4	8,417.4	8,332.8	19.0	20.8	-91.02	362.4	-711.1	970.2	936.0	34.12	28.434	
8,400.0	8,366.6	8,452.4	8,367.8	19.0	20.8	-91.02	362.4	-711.1	970.2	936.0	34.15	28.406	
8,417.4	8,384.0	8,469.0	8,384.5	19.0	20.8	-91.04	362.0	-711.1	970.2	936.0	34.16	28.400	
8,450.0	8,416.6	8,500.0	8,415.4	19.0	20.8	88.38	360.0	-711.1	970.2	936.0	34.17	28.392	
8,455.0	8,421.6	8,504.9	8,420.2	19.0	20.8	88.37	359.5	-711.1	970.2	936.0	34.17	28.391	
8,500.0	8,466.3	8,547.8	8,462.7	19.1	20.9	88.29	353.7	-711.2	970.2	936.1	34.19	28.381	
8,550.0	8,515.4	8,595.3	8,509.1	19.1	20.9	88.20	343.5	-711.3	970.3	936.1	34.20	28.375	
8,600.0	8,563.5	8,642.7	8,554.4	19.2	20.9	88.13	329.5	-711.4	970.3	936.1	34.20	28.372	
8,645.0	8,605.7	8,685.3	8,594.0	19.2	20.9	88.08	313.8	-711.5	970.4	936.2	34.20	28.372	
8,650.0	8,610.3	8,690.0	8,598.3	19.2	20.9	88.07	311.9	-711.5	970.4	936.2	34.20	28.372	
8,700.0	8,655.3	8,737.3	8,640.5	19.3	21.0	88.03	290.7	-711.7	970.4	936.2	34.20	28.374	
8,740.0	8,689.8	8,775.1	8,673.0	19.3	21.0	88.00	271.4	-711.9	970.4	936.2	34.20	28.375	
8,750.0	8,698.3	8,784.5	8,680.9	19.3	21.0	88.00	266.2	-712.0	970.4	936.2	34.20	28.376	
8,800.0	8,738.8	8,831.7	8,719.0	19.4	21.0	87.98	238.4	-712.2	970.4	936.2	34.20	28.377	
8,835.0	8,765.6	8,864.7	8,744.3	19.4	21.0	87.98	217.2	-712.4	970.4	936.2	34.20	28.375	
8,850.0	8,776.7	8,878.9	8,754.7	19.5	21.0	87.98	207.6	-712.5	970.4	936.2	34.20	28.374	
8,900.0	8,811.6	8,926.1	8,787.8	19.5	21.1	88.00	174.0	-712.8	970.4	936.2	34.21	28.368	
8,930.0	8,830.9	8,954.4	8,806.3	19.5	21.1	88.01	152.5	-713.0	970.4	936.2	34.22	28.360	
8,950.0	8,843.2	8,973.3	8,818.0	19.6	21.1	88.03	137.7	-713.1	970.4	936.2	34.22	28.354	
9,000.0	8,871.3	9,020.6	8,845.2	19.6	21.2	88.07	99.0	-713.4	970.4	936.1	34.25	28.333	
9,025.0	8,884.0	9,044.2	8,857.5	19.6	21.2	88.10	78.9	-713.6	970.3	936.1	34.27	28.318	
9,050.0	8,895.7	9,067.9	8,869.1	19.7	21.2	88.13	58.2	-713.8	970.3	936.0	34.29	28.301	
9,100.0	8,916.2	9,115.3	8,889.5	19.7	21.2	88.20	15.5	-714.2	970.3	936.0	34.34	28.259	
9,120.0	8,923.3	9,134.3	8,896.7	19.7	21.3	88.23	-2.1	-714.3	970.3	935.9	34.36	28.238	
9,150.0	8,932.7	9,162.8	8,906.5	19.8	21.3	88.28	-28.9	-714.6	970.3	935.9	34.40	28.205	
9,200.0	8,945.0	9,210.4	8,919.7	19.8	21.3	88.37	-74.7	-715.0	970.2	935.7	34.48	28.139	
9,215.0	8,947.9	9,224.7	8,922.9	19.8	21.4	88.41	-88.6	-715.1	970.2	935.7	34.51	28.115	
9,250.0	8,953.0	9,258.2	8,929.0	19.8	21.4	88.48	-121.5	-715.4	970.2	935.6	34.57	28.060	
9,300.0	8,956.7	9,306.1	8,934.5	19.9	21.4	88.60	-169.0	-715.8	970.1	935.4	34.69	27.969	
9,310.0	8,957.0	9,315.6	8,935.1	19.9	21.5	88.63	-178.6	-715.9	970.1	935.4	34.71	27.949	
9,316.8	8,957.0	9,322.2	8,935.4	19.9	21.5	88.64	-185.1	-716.0	970.1	935.4	34.73	27.936	
9,356.8	8,957.0	9,361.2	8,936.0	19.9	21.5	88.68	-224.1	-716.3	970.1	935.2	34.84	27.844	

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #709H - OWB - PWP1													Offset Site Error:	0.0 usft	
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8448-r.5 MWD+IFR1+MS								Rule Assigned:				Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		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		
9,400.0	8,957.1	9,404.4	8,936.1	19.9	21.6	88.68	-267.3	-716.7	970.1	935.1	34.97	27.739			
9,405.0	8,957.1	9,409.4	8,936.1	19.9	21.6	88.68	-272.3	-716.7	970.1	935.1	34.99	27.724			
9,500.0	8,957.2	9,504.4	8,936.3	20.0	21.7	88.68	-367.3	-717.6	970.1	934.7	35.35	27.444			
9,595.0	8,957.3	9,599.4	8,936.4	20.1	21.9	88.68	-462.3	-718.4	970.1	934.3	35.76	27.126			
9,600.0	8,957.3	9,604.4	8,936.4	20.1	21.9	88.68	-467.3	-718.5	970.1	934.3	35.79	27.108			
9,690.0	8,957.4	9,694.4	8,936.6	20.1	22.1	88.68	-557.3	-719.3	970.1	933.8	36.23	26.774			
9,700.0	8,957.4	9,704.4	8,936.6	20.2	22.1	88.69	-567.3	-719.4	970.1	933.8	36.28	26.736			
9,785.0	8,957.5	9,789.4	8,936.7	20.2	22.2	88.69	-652.3	-720.1	970.1	933.3	36.75	26.394			
9,800.0	8,957.6	9,804.4	8,936.7	20.3	22.3	88.69	-667.3	-720.2	970.1	933.2	36.84	26.334			
9,880.0	8,957.6	9,884.4	8,936.9	20.4	22.5	88.69	-747.3	-721.0	970.1	932.7	37.32	25.990			
9,900.0	8,957.7	9,904.4	8,936.9	20.4	22.5	88.69	-767.3	-721.1	970.1	932.6	37.45	25.905			
9,975.0	8,957.8	9,979.4	8,937.0	20.5	22.7	88.69	-842.3	-721.8	970.1	932.1	37.94	25.567			
10,000.0	8,957.8	10,004.4	8,937.1	20.5	22.7	88.69	-867.3	-722.0	970.1	932.0	38.11	25.456			
10,070.0	8,957.9	10,074.4	8,937.2	20.6	22.9	88.70	-937.3	-722.6	970.1	931.5	38.60	25.129			
10,100.0	8,957.9	10,104.4	8,937.2	20.7	23.0	88.70	-967.3	-722.9	970.1	931.3	38.82	24.990			
10,165.0	8,958.0	10,169.4	8,937.3	20.8	23.2	88.70	-1,032.3	-723.5	970.1	930.8	39.31	24.678			
10,200.0	8,958.0	10,204.4	8,937.4	20.9	23.3	88.70	-1,067.3	-723.8	970.1	930.5	39.57	24.513			
10,260.0	8,958.1	10,264.4	8,937.5	21.0	23.5	88.70	-1,127.3	-724.3	970.1	930.0	40.05	24.219			
10,300.0	8,958.1	10,304.4	8,937.5	21.1	23.6	88.70	-1,167.3	-724.7	970.1	929.7	40.37	24.027			
10,355.0	8,958.2	10,359.4	8,937.6	21.2	23.8	88.70	-1,222.3	-725.2	970.1	929.2	40.84	23.755			
10,400.0	8,958.2	10,404.4	8,937.7	21.3	23.9	88.70	-1,267.3	-725.6	970.1	928.9	41.22	23.537			
10,450.0	8,958.3	10,454.4	8,937.8	21.4	24.1	88.71	-1,317.3	-726.0	970.1	928.4	41.65	23.288			
10,500.0	8,958.4	10,504.4	8,937.9	21.5	24.3	88.71	-1,367.3	-726.5	970.1	928.0	42.09	23.045			
10,545.0	8,958.4	10,549.4	8,937.9	21.7	24.4	88.71	-1,412.3	-726.9	970.1	927.6	42.51	22.822			
10,600.0	8,958.5	10,604.4	8,938.0	21.8	24.6	88.71	-1,467.3	-727.3	970.1	927.1	43.01	22.554			
10,640.0	8,958.5	10,644.4	8,938.1	22.0	24.8	88.71	-1,507.3	-727.7	970.1	926.7	43.39	22.357			
10,700.0	8,958.6	10,704.4	8,938.2	22.1	25.0	88.71	-1,567.3	-728.2	970.1	926.1	43.96	22.067			
10,735.0	8,958.6	10,739.4	8,938.2	22.3	25.1	88.71	-1,602.3	-728.5	970.1	925.8	44.30	21.896			
10,800.0	8,958.7	10,804.4	8,938.4	22.5	25.4	88.72	-1,667.3	-729.1	970.1	925.1	44.94	21.585			
10,830.0	8,958.7	10,834.4	8,938.4	22.6	25.5	88.72	-1,697.3	-729.4	970.1	924.8	45.24	21.441			
10,900.0	8,958.8	10,904.4	8,938.5	22.9	25.8	88.72	-1,767.3	-730.0	970.1	924.1	45.95	21.110			
10,925.0	8,958.8	10,929.4	8,938.6	23.0	25.9	88.72	-1,792.3	-730.2	970.1	923.9	46.21	20.992			
11,000.0	8,958.9	11,004.4	8,938.7	23.3	26.2	88.72	-1,867.3	-730.9	970.1	923.1	46.99	20.644			
11,020.0	8,958.9	11,024.4	8,938.7	23.4	26.3	88.72	-1,887.3	-731.1	970.1	922.9	47.20	20.551			
11,100.0	8,959.0	11,104.4	8,938.8	23.7	26.7	88.72	-1,967.3	-731.8	970.1	922.0	48.06	20.186			
11,115.0	8,959.1	11,119.4	8,938.9	23.8	26.7	88.72	-1,982.3	-731.9	970.1	921.8	48.22	20.118			
11,200.0	8,959.2	11,204.4	8,939.0	24.2	27.1	88.73	-2,067.3	-732.7	970.1	920.9	49.14	19.739			
11,210.0	8,959.2	11,214.4	8,939.0	24.2	27.2	88.73	-2,077.3	-732.8	970.1	920.8	49.26	19.695			
11,300.0	8,959.3	11,304.4	8,939.2	24.6	27.6	88.73	-2,167.3	-733.6	970.1	919.8	50.26	19.303			
11,305.0	8,959.3	11,309.4	8,939.2	24.7	27.6	88.73	-2,172.3	-733.6	970.1	919.8	50.31	19.281			
11,400.0	8,959.4	11,404.4	8,939.3	25.1	28.1	88.73	-2,267.2	-734.4	970.1	918.7	51.39	18.877			
11,495.0	8,959.5	11,499.4	8,939.5	25.6	28.6	88.74	-2,362.2	-735.3	970.1	917.6	52.48	18.484			
11,500.0	8,959.5	11,504.4	8,939.5	25.7	28.6	88.74	-2,367.2	-735.3	970.1	917.5	52.54	18.463			
11,590.0	8,959.6	11,594.4	8,939.6	26.2	29.0	88.74	-2,457.2	-736.1	970.1	916.5	53.59	18.100			
11,600.0	8,959.6	11,604.4	8,939.6	26.2	29.1	88.74	-2,467.2	-736.2	970.1	916.4	53.71	18.061			
11,685.0	8,959.7	11,689.4	8,939.8	26.7	29.5	88.74	-2,552.2	-737.0	970.1	915.3	54.72	17.727			
11,700.0	8,959.7	11,704.4	8,939.8	26.8	29.6	88.74	-2,567.2	-737.1	970.1	915.2	54.90	17.670			
11,780.0	8,959.8	11,784.4	8,939.9	27.2	30.0	88.74	-2,647.2	-737.8	970.1	914.2	55.86	17.365			
11,800.0	8,959.8	11,804.4	8,940.0	27.3	30.2	88.74	-2,667.2	-738.0	970.1	914.0	56.10	17.290			
11,875.0	8,959.9	11,879.4	8,940.1	27.8	30.6	88.75	-2,742.2	-738.7	970.1	913.0	57.02	17.013			
11,900.0	8,960.0	11,904.4	8,940.1	27.9	30.7	88.75	-2,767.2	-738.9	970.1	912.7	57.32	16.922			

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #709H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8448-r.5 MWD+IFR1+MS						Rule Assigned:				Offset Well Error:	3.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance				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		
11,970.0	8,960.0	11,974.4	8,940.2	28.3	31.1	88.75	-2,837.2	-739.5	970.1	911.9	58.19	16.671		
12,000.0	8,960.1	12,004.4	8,940.3	28.5	31.3	88.75	-2,867.2	-739.8	970.1	911.5	58.56	16.566		
12,065.0	8,960.1	12,069.4	8,940.4	28.9	31.6	88.75	-2,932.2	-740.3	970.1	910.7	59.37	16.339		
12,100.0	8,960.2	12,104.4	8,940.5	29.1	31.8	88.75	-2,967.2	-740.7	970.1	910.3	59.81	16.220		
12,160.0	8,960.2	12,164.4	8,940.6	29.5	32.2	88.75	-3,027.2	-741.2	970.1	909.5	60.56	16.018		
12,200.0	8,960.3	12,204.4	8,940.6	29.8	32.4	88.75	-3,067.2	-741.5	970.1	909.0	61.07	15.885		
12,255.0	8,960.4	12,259.4	8,940.7	30.1	32.7	88.76	-3,122.2	-742.0	970.1	908.3	61.77	15.705		
12,300.0	8,960.4	12,304.4	8,940.8	30.4	33.0	88.76	-3,167.2	-742.4	970.1	907.7	62.34	15.561		
12,350.0	8,960.5	12,354.4	8,940.9	30.7	33.3	88.76	-3,217.2	-742.9	970.1	907.1	62.98	15.403		
12,400.0	8,960.5	12,404.4	8,940.9	31.0	33.6	88.76	-3,267.2	-743.3	970.1	906.4	63.62	15.247		
12,445.0	8,960.6	12,449.4	8,941.0	31.3	33.8	88.76	-3,312.2	-743.7	970.1	905.9	64.20	15.109		
12,500.0	8,960.6	12,504.4	8,941.1	31.7	34.2	88.76	-3,367.2	-744.2	970.1	905.1	64.92	14.943		
12,540.0	8,960.7	12,544.4	8,941.2	31.9	34.4	88.76	-3,407.2	-744.6	970.1	904.6	65.44	14.824		
12,600.0	8,960.8	12,604.4	8,941.3	32.3	34.8	88.77	-3,467.2	-745.1	970.1	903.8	66.22	14.649		
12,635.0	8,960.8	12,639.4	8,941.3	32.5	35.0	88.77	-3,502.2	-745.4	970.1	903.4	66.68	14.548		
12,700.0	8,960.9	12,704.4	8,941.4	33.0	35.4	88.77	-3,567.2	-746.0	970.1	902.5	67.53	14.364		
12,730.0	8,960.9	12,734.4	8,941.5	33.2	35.6	88.77	-3,597.2	-746.3	970.1	902.1	67.93	14.281		
12,800.0	8,961.0	12,804.4	8,941.6	33.6	36.0	88.77	-3,667.2	-746.9	970.1	901.2	68.85	14.089		
12,825.0	8,961.0	12,829.4	8,941.6	33.8	36.2	88.77	-3,692.2	-747.1	970.1	900.9	69.19	14.021		
12,900.0	8,961.1	12,904.4	8,941.7	34.3	36.6	88.77	-3,767.2	-747.8	970.1	899.9	70.18	13.822		
12,920.0	8,961.1	12,924.4	8,941.8	34.4	36.8	88.78	-3,787.2	-747.9	970.1	899.6	70.45	13.769		
13,000.0	8,961.2	13,004.4	8,941.9	35.0	37.3	88.78	-3,867.2	-748.6	970.1	898.5	71.52	13.563		
13,015.0	8,961.2	13,019.4	8,941.9	35.1	37.4	88.78	-3,882.2	-748.8	970.1	898.3	71.72	13.525		
13,100.0	8,961.3	13,104.4	8,942.1	35.7	37.9	88.78	-3,967.2	-749.5	970.1	897.2	72.87	13.313		
13,110.0	8,961.3	13,114.4	8,942.1	35.7	38.0	88.78	-3,977.2	-749.6	970.1	897.1	73.00	13.288		
13,200.0	8,961.4	13,204.4	8,942.2	36.3	38.5	88.78	-4,067.2	-750.4	970.1	895.8	74.22	13.070		
13,205.0	8,961.4	13,209.4	8,942.2	36.4	38.6	88.78	-4,072.2	-750.5	970.1	895.8	74.29	13.058		
13,300.0	8,961.6	13,304.4	8,942.4	37.0	39.2	88.79	-4,167.2	-751.3	970.1	894.5	75.58	12.835		
13,395.0	8,961.7	13,399.4	8,942.5	37.7	39.8	88.79	-4,262.2	-752.2	970.1	893.2	76.88	12.618		
13,400.0	8,961.7	13,404.4	8,942.6	37.7	39.8	88.79	-4,267.2	-752.2	970.1	893.1	76.94	12.607		
13,490.0	8,961.8	13,494.4	8,942.7	38.3	40.4	88.79	-4,357.2	-753.0	970.1	891.9	78.18	12.408		
13,500.0	8,961.8	13,504.4	8,942.7	38.4	40.5	88.79	-4,367.2	-753.1	970.1	891.7	78.32	12.387		
13,585.0	8,961.9	13,589.4	8,942.9	39.0	41.0	88.79	-4,452.2	-753.8	970.1	890.6	79.49	12.204		
13,600.0	8,961.9	13,604.4	8,942.9	39.1	41.1	88.79	-4,467.2	-754.0	970.1	890.4	79.69	12.172		
13,680.0	8,962.0	13,684.4	8,943.0	39.7	41.7	88.80	-4,547.2	-754.7	970.1	889.3	80.80	12.006		
13,700.0	8,962.0	13,704.4	8,943.0	39.8	41.8	88.80	-4,567.2	-754.9	970.1	889.0	81.08	11.965		
13,775.0	8,962.1	13,779.4	8,943.2	40.3	42.3	88.80	-4,642.2	-755.5	970.1	887.9	82.12	11.813		
13,800.0	8,962.1	13,804.4	8,943.2	40.5	42.5	88.80	-4,667.2	-755.7	970.1	887.6	82.46	11.764		
13,870.0	8,962.2	13,874.4	8,943.3	41.0	42.9	88.80	-4,737.1	-756.4	970.1	886.6	83.44	11.626		
13,900.0	8,962.2	13,904.4	8,943.4	41.2	43.1	88.80	-4,767.1	-756.6	970.1	886.2	83.85	11.568		
13,965.0	8,962.3	13,969.4	8,943.5	41.7	43.6	88.80	-4,832.1	-757.2	970.1	885.3	84.76	11.444		
14,000.0	8,962.4	14,004.4	8,943.5	41.9	43.8	88.81	-4,867.1	-757.5	970.1	884.8	85.25	11.379		
14,060.0	8,962.4	14,064.4	8,943.6	42.3	44.2	88.81	-4,927.1	-758.1	970.1	884.0	86.09	11.268		
14,100.0	8,962.5	14,104.4	8,943.7	42.6	44.5	88.81	-4,967.1	-758.4	970.1	883.4	86.65	11.195		
14,155.0	8,962.5	14,159.4	8,943.8	43.0	44.9	88.81	-5,022.1	-758.9	970.1	882.6	87.43	11.096		
14,200.0	8,962.6	14,204.4	8,943.8	43.3	45.2	88.81	-5,067.1	-759.3	970.1	882.0	88.06	11.016		
14,250.0	8,962.6	14,254.4	8,943.9	43.7	45.5	88.81	-5,117.1	-759.7	970.1	881.3	88.76	10.929		
14,300.0	8,962.7	14,304.4	8,944.0	44.0	45.8	88.81	-5,167.1	-760.2	970.1	880.6	89.47	10.843		
14,345.0	8,962.7	14,349.4	8,944.1	44.4	46.2	88.81	-5,212.1	-760.6	970.1	880.0	90.10	10.766		
14,400.0	8,962.8	14,404.4	8,944.2	44.8	46.5	88.82	-5,267.1	-761.1	970.1	879.2	90.88	10.674		
14,440.0	8,962.9	14,444.4	8,944.2	45.0	46.8	88.82	-5,307.1	-761.4	970.1	878.6	91.45	10.608		

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 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 (usft)	Factor
14,500.0	8,962.9	14,504.4	8,944.3	45.5	47.2	88.82	-5,367.1	-762.0	970.1	877.8	92.30	10.510
14,535.0	8,963.0	14,539.4	8,944.4	45.7	47.5	88.82	-5,402.1	-762.3	970.1	877.3	92.80	10.454
14,600.0	8,963.0	14,604.4	8,944.5	46.2	47.9	88.82	-5,467.1	-762.9	970.1	876.3	93.72	10.351
14,630.0	8,963.1	14,634.4	8,944.5	46.4	48.1	88.82	-5,497.1	-763.1	970.1	875.9	94.15	10.304
14,700.0	8,963.2	14,704.4	8,944.7	46.9	48.6	88.82	-5,567.1	-763.7	970.1	874.9	95.14	10.196
14,725.0	8,963.2	14,729.4	8,944.7	47.1	48.8	88.83	-5,592.1	-764.0	970.1	874.6	95.50	10.158
14,800.0	8,963.3	14,804.4	8,944.8	47.6	49.3	88.83	-5,667.1	-764.6	970.1	873.5	96.57	10.045
14,820.0	8,963.3	14,824.4	8,944.8	47.8	49.4	88.83	-5,687.1	-764.8	970.1	873.2	96.86	10.016
14,900.0	8,963.4	14,904.4	8,945.0	48.4	50.0	88.83	-5,767.1	-765.5	970.1	872.1	98.00	9.899
14,915.0	8,963.4	14,919.4	8,945.0	48.5	50.1	88.83	-5,782.1	-765.6	970.1	871.8	98.21	9.877
15,000.0	8,963.5	15,004.4	8,945.1	49.1	50.7	88.83	-5,867.1	-766.4	970.1	870.6	99.43	9.756
15,010.0	8,963.5	15,014.4	8,945.2	49.1	50.8	88.83	-5,877.1	-766.5	970.1	870.5	99.58	9.742
15,100.0	8,963.6	15,104.4	8,945.3	49.8	51.4	88.84	-5,967.1	-767.3	970.1	869.2	100.87	9.617
15,105.0	8,963.6	15,109.4	8,945.3	49.8	51.4	88.84	-5,972.1	-767.3	970.1	869.1	100.94	9.610
15,200.0	8,963.7	15,204.4	8,945.5	50.5	52.1	88.84	-6,067.1	-768.2	970.1	867.8	102.31	9.482
15,295.0	8,963.8	15,299.4	8,945.6	51.2	52.8	88.84	-6,162.1	-769.0	970.1	866.4	103.68	9.357
15,300.0	8,963.8	15,304.4	8,945.6	51.3	52.8	88.84	-6,167.1	-769.1	970.1	866.3	103.75	9.350
15,390.0	8,963.9	15,394.4	8,945.8	51.9	53.4	88.84	-6,257.1	-769.9	970.1	865.0	105.05	9.235
15,400.0	8,963.9	15,404.4	8,945.8	52.0	53.5	88.84	-6,267.1	-770.0	970.1	864.9	105.19	9.222
15,485.0	8,964.0	15,489.4	8,945.9	52.6	54.1	88.85	-6,352.1	-770.7	970.1	863.6	106.42	9.115
15,500.0	8,964.1	15,504.4	8,945.9	52.7	54.2	88.85	-6,367.1	-770.8	970.1	863.4	106.64	9.097
15,580.0	8,964.2	15,584.4	8,946.1	53.3	54.8	88.85	-6,447.1	-771.6	970.1	862.3	107.79	8.999
15,600.0	8,964.2	15,604.4	8,946.1	53.4	54.9	88.85	-6,467.1	-771.7	970.1	862.0	108.08	8.975
15,675.0	8,964.3	15,679.4	8,946.2	54.0	55.4	88.85	-6,542.1	-772.4	970.1	860.9	109.17	8.886
15,700.0	8,964.3	15,704.4	8,946.3	54.2	55.6	88.85	-6,567.1	-772.6	970.1	860.5	109.53	8.856
15,770.0	8,964.4	15,774.4	8,946.4	54.7	56.1	88.85	-6,637.1	-773.2	970.1	859.5	110.55	8.775
15,800.0	8,964.4	15,804.4	8,946.4	54.9	56.3	88.86	-6,667.1	-773.5	970.1	859.1	110.99	8.740
15,865.0	8,964.5	15,869.4	8,946.5	55.4	56.8	88.86	-6,732.1	-774.1	970.1	858.1	111.93	8.667
15,900.0	8,964.5	15,904.4	8,946.6	55.6	57.1	88.86	-6,767.1	-774.4	970.1	857.6	112.44	8.627
15,960.0	8,964.6	15,964.4	8,946.7	56.1	57.5	88.86	-6,827.1	-774.9	970.1	856.7	113.31	8.561
16,000.0	8,964.6	16,004.4	8,946.8	56.4	57.8	88.86	-6,867.1	-775.3	970.1	856.2	113.90	8.517
16,055.0	8,964.7	16,059.4	8,946.8	56.8	58.2	88.86	-6,922.1	-775.8	970.1	855.4	114.70	8.457
16,100.0	8,964.7	16,104.4	8,946.9	57.1	58.5	88.86	-6,967.1	-776.2	970.1	854.7	115.35	8.409
16,150.0	8,964.8	16,154.4	8,947.0	57.5	58.8	88.87	-7,017.1	-776.6	970.1	854.0	116.08	8.356
16,200.0	8,964.9	16,204.4	8,947.1	57.8	59.2	88.87	-7,067.1	-777.1	970.1	853.2	116.81	8.304
16,245.0	8,964.9	16,249.4	8,947.2	58.2	59.5	88.87	-7,112.1	-777.5	970.1	852.6	117.47	8.258
16,300.0	8,965.0	16,304.4	8,947.2	58.6	59.9	88.87	-7,167.0	-777.9	970.1	851.8	118.28	8.202
16,340.0	8,965.0	16,344.4	8,947.3	58.9	60.2	88.87	-7,207.0	-778.3	970.1	851.2	118.86	8.161
16,400.0	8,965.1	16,404.4	8,947.4	59.3	60.6	88.87	-7,267.0	-778.8	970.1	850.3	119.74	8.101
16,435.0	8,965.1	16,439.4	8,947.5	59.6	60.9	88.87	-7,302.0	-779.1	970.1	849.8	120.25	8.067
16,500.0	8,965.2	16,504.4	8,947.6	60.1	61.4	88.88	-7,367.0	-779.7	970.1	848.9	121.20	8.004
16,530.0	8,965.2	16,534.4	8,947.6	60.3	61.6	88.88	-7,397.0	-780.0	970.1	848.4	121.64	7.975
16,600.0	8,965.3	16,604.4	8,947.7	60.8	62.1	88.88	-7,467.0	-780.6	970.1	847.4	122.67	7.908
16,625.0	8,965.3	16,629.4	8,947.8	61.0	62.3	88.88	-7,492.0	-780.8	970.1	847.0	123.04	7.884
16,700.0	8,965.4	16,704.4	8,947.9	61.5	62.8	88.88	-7,567.0	-781.5	970.1	845.9	124.14	7.814
16,720.0	8,965.5	16,724.4	8,947.9	61.7	63.0	88.88	-7,587.0	-781.7	970.1	845.6	124.43	7.796
16,800.0	8,965.5	16,804.4	8,948.0	62.3	63.5	88.88	-7,667.0	-782.4	970.1	844.4	125.61	7.723
16,815.0	8,965.6	16,819.4	8,948.1	62.4	63.6	88.88	-7,682.0	-782.5	970.1	844.2	125.83	7.709
16,900.0	8,965.7	16,904.4	8,948.2	63.0	64.3	88.89	-7,767.0	-783.3	970.1	843.0	127.08	7.634
16,910.0	8,965.7	16,914.4	8,948.2	63.1	64.3	88.89	-7,777.0	-783.4	970.1	842.8	127.22	7.625
17,000.0	8,965.8	17,004.4	8,948.4	63.8	65.0	88.89	-7,867.0	-784.2	970.1	841.5	128.55	7.546

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #709H - OWB - PWP1													Offset Site Error: 0.0 usft		
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8448-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft		
Reference Offset				Semi Major Axis		Offset Wellbore Centre				Rule Assigned: Distance					
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	8,965.8	17,009.4	8,948.4	63.8	65.0	88.89	-7,872.0	-784.2	970.1	841.4	128.62	7.542			
17,100.0	8,965.9	17,104.4	8,948.5	64.5	65.7	88.89	-7,967.0	-785.0	970.1	840.0	130.02	7.461			
17,195.0	8,966.0	17,199.4	8,948.7	65.2	66.4	88.89	-8,062.0	-785.9	970.1	838.6	131.42	7.381			
17,200.0	8,966.0	17,204.4	8,948.7	65.2	66.4	88.89	-8,067.0	-785.9	970.1	838.6	131.50	7.377			
17,290.0	8,966.1	17,294.4	8,948.8	65.9	67.1	88.90	-8,157.0	-786.7	970.1	837.2	132.83	7.303			
17,300.0	8,966.1	17,304.4	8,948.9	66.0	67.2	88.90	-8,167.0	-786.8	970.1	837.1	132.97	7.295			
17,385.0	8,966.2	17,389.4	8,949.0	66.6	67.8	88.90	-8,252.0	-787.6	970.1	835.8	134.23	7.227			
17,400.0	8,966.2	17,404.4	8,949.0	66.7	67.9	88.90	-8,267.0	-787.7	970.1	835.6	134.45	7.215			
17,480.0	8,966.3	17,484.4	8,949.1	67.3	68.5	88.90	-8,347.0	-788.4	970.1	834.4	135.63	7.152			
17,500.0	8,966.3	17,504.4	8,949.2	67.5	68.6	88.90	-8,367.0	-788.6	970.1	834.1	135.93	7.137			
17,575.0	8,966.4	17,579.4	8,949.3	68.0	69.2	88.91	-8,442.0	-789.3	970.1	833.0	137.04	7.079			
17,600.0	8,966.5	17,604.4	8,949.3	68.2	69.4	88.91	-8,467.0	-789.5	970.1	832.6	137.41	7.060			
17,670.0	8,966.5	17,674.4	8,949.5	68.7	69.9	88.91	-8,537.0	-790.1	970.1	831.6	138.44	7.007			
17,700.0	8,966.6	17,704.4	8,949.5	69.0	70.1	88.91	-8,567.0	-790.4	970.1	831.2	138.89	6.984			
17,765.0	8,966.7	17,769.4	8,949.6	69.5	70.6	88.91	-8,632.0	-790.9	970.1	830.2	139.85	6.936			
17,800.0	8,966.7	17,804.4	8,949.7	69.7	70.8	88.91	-8,667.0	-791.3	970.1	829.7	140.37	6.911			
17,860.0	8,966.8	17,864.4	8,949.8	70.2	71.3	88.91	-8,727.0	-791.8	970.1	828.8	141.26	6.867			
17,900.0	8,966.8	17,904.4	8,949.8	70.5	71.6	88.91	-8,767.0	-792.1	970.1	828.2	141.85	6.839			
17,955.0	8,966.9	17,959.4	8,949.9	70.9	72.0	88.92	-8,822.0	-792.6	970.1	827.4	142.67	6.799			
18,000.0	8,966.9	18,004.4	8,950.0	71.2	72.3	88.92	-8,867.0	-793.0	970.1	826.7	143.33	6.768			
18,050.0	8,967.0	18,054.4	8,950.1	71.6	72.7	88.92	-8,917.0	-793.5	970.1	826.0	144.08	6.733			
18,100.0	8,967.0	18,104.4	8,950.1	72.0	73.0	88.92	-8,967.0	-793.9	970.1	825.2	144.82	6.698			
18,145.0	8,967.1	18,149.4	8,950.2	72.3	73.3	88.92	-9,012.0	-794.3	970.1	824.6	145.49	6.668			
18,200.0	8,967.1	18,204.4	8,950.3	72.7	73.8	88.92	-9,067.0	-794.8	970.1	823.8	146.30	6.630			
18,240.0	8,967.2	18,244.4	8,950.4	73.0	74.0	88.92	-9,107.0	-795.2	970.1	823.2	146.90	6.604			
18,300.0	8,967.3	18,304.4	8,950.5	73.4	74.5	88.93	-9,167.0	-795.7	970.1	822.3	147.79	6.564			
18,335.0	8,967.3	18,339.4	8,950.5	73.7	74.7	88.93	-9,202.0	-796.0	970.1	821.7	148.31	6.541			
18,400.0	8,967.4	18,404.4	8,950.6	74.2	75.2	88.93	-9,267.0	-796.6	970.1	820.8	149.28	6.498			
18,430.0	8,967.4	18,434.4	8,950.7	74.4	75.4	88.93	-9,297.0	-796.8	970.1	820.3	149.72	6.479			
18,500.0	8,967.5	18,504.4	8,950.8	74.9	76.0	88.93	-9,367.0	-797.5	970.1	819.3	150.76	6.434			
18,525.0	8,967.5	18,529.4	8,950.8	75.1	76.1	88.93	-9,392.0	-797.7	970.1	818.9	151.13	6.418			
18,600.0	8,967.6	18,604.4	8,951.0	75.7	76.7	88.93	-9,467.0	-798.4	970.1	817.8	152.25	6.371			
18,620.0	8,967.6	18,624.4	8,951.0	75.8	76.8	88.93	-9,487.0	-798.5	970.1	817.5	152.55	6.359			
18,700.0	8,967.7	18,704.4	8,951.1	76.4	77.4	88.94	-9,567.0	-799.2	970.1	816.3	153.74	6.310			
18,715.0	8,967.7	18,719.4	8,951.1	76.6	77.5	88.94	-9,582.0	-799.4	970.1	816.1	153.96	6.301			
18,800.0	8,967.8	18,804.4	8,951.3	77.2	78.2	88.94	-9,666.9	-800.1	970.1	814.8	155.23	6.249			
18,810.0	8,967.8	18,814.4	8,951.3	77.3	78.3	88.94	-9,676.9	-800.2	970.1	814.7	155.38	6.243			
18,900.0	8,967.9	18,904.4	8,951.4	77.9	78.9	88.94	-9,766.9	-801.0	970.1	813.3	156.72	6.190			
18,905.0	8,968.0	18,909.4	8,951.4	78.0	79.0	88.94	-9,771.9	-801.1	970.1	813.3	156.79	6.187			
19,000.0	8,968.1	19,004.4	8,951.6	78.7	79.7	88.95	-9,866.9	-801.9	970.1	811.8	158.21	6.131			
19,095.0	8,968.2	19,099.4	8,951.8	79.4	80.4	88.95	-9,961.9	-802.8	970.1	810.4	159.63	6.077			
19,100.0	8,968.2	19,104.4	8,951.8	79.4	80.4	88.95	-9,966.9	-802.8	970.1	810.3	159.70	6.074			
19,190.0	8,968.3	19,194.4	8,951.9	80.1	81.1	88.95	-10,056.9	-803.6	970.1	809.0	161.05	6.023			
19,200.0	8,968.3	19,204.4	8,951.9	80.2	81.1	88.95	-10,066.9	-803.7	970.1	808.9	161.20	6.018			
19,285.0	8,968.4	19,289.4	8,952.1	80.8	81.8	88.95	-10,151.9	-804.4	970.1	807.6	162.47	5.971			
19,300.0	8,968.4	19,304.4	8,952.1	80.9	81.9	88.95	-10,166.9	-804.6	970.1	807.4	162.69	5.963			
19,380.0	8,968.5	19,384.4	8,952.2	81.5	82.5	88.96	-10,246.9	-805.3	970.1	806.2	163.88	5.919			
19,400.0	8,968.5	19,404.4	8,952.2	81.7	82.6	88.96	-10,266.9	-805.5	970.1	805.9	164.18	5.908			
19,475.0	8,968.6	19,479.4	8,952.4	82.3	83.2	88.96	-10,341.9	-806.1	970.1	804.7	165.30	5.868			
19,500.0	8,968.6	19,504.4	8,952.4	82.4	83.4	88.96	-10,366.9	-806.3	970.1	804.4	165.68	5.855			
19,570.0	8,968.7	19,574.4	8,952.5	83.0	83.9	88.96	-10,436.9	-807.0	970.1	803.3	166.72	5.818			

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #709H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8448-r.5 MWD+IFR1+MS						Rule Assigned:				Offset Well Error:	3.0 usft	
Measured Reference	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		
19,600.0	8,968.7	19,604.4	8,952.6	83.2	84.1	88.96	-10,466.9	-807.2	970.1	802.9	167.17	5.803		
19,665.0	8,968.8	19,669.4	8,952.7	83.7	84.6	88.96	-10,531.9	-807.8	970.1	801.9	168.15	5.769		
19,700.0	8,968.9	19,704.4	8,952.7	83.9	84.8	88.96	-10,566.9	-808.1	970.1	801.4	168.67	5.751		
19,760.0	8,968.9	19,764.4	8,952.8	84.4	85.3	88.97	-10,626.9	-808.7	970.1	800.5	169.57	5.721		
19,800.0	8,969.0	19,804.4	8,952.9	84.7	85.6	88.97	-10,666.9	-809.0	970.1	799.9	170.17	5.701		
19,855.0	8,969.0	19,859.4	8,953.0	85.1	86.0	88.97	-10,721.9	-809.5	970.1	799.1	170.99	5.673		
19,900.0	8,969.1	19,904.4	8,953.1	85.5	86.3	88.97	-10,766.9	-809.9	970.1	798.4	171.66	5.651		
19,950.0	8,969.1	19,954.4	8,953.1	85.8	86.7	88.97	-10,816.9	-810.3	970.1	797.6	172.41	5.626		
20,000.0	8,969.2	20,004.4	8,953.2	86.2	87.1	88.97	-10,866.9	-810.8	970.1	796.9	173.16	5.602		
20,045.0	8,969.3	20,049.4	8,953.3	86.5	87.4	88.97	-10,911.9	-811.2	970.1	796.2	173.83	5.580		
20,100.0	8,969.3	20,104.4	8,953.4	87.0	87.8	88.98	-10,966.9	-811.7	970.1	795.4	174.66	5.554		
20,140.0	8,969.4	20,144.4	8,953.4	87.3	88.1	88.98	-11,006.9	-812.0	970.1	794.8	175.26	5.535		
20,200.0	8,969.4	20,204.4	8,953.5	87.7	88.6	88.98	-11,066.9	-812.6	970.1	793.9	176.16	5.507		
20,235.0	8,969.5	20,239.4	8,953.6	88.0	88.8	88.98	-11,101.9	-812.9	970.1	793.4	176.68	5.490		
20,300.0	8,969.5	20,304.4	8,953.7	88.5	89.3	88.98	-11,166.9	-813.4	970.1	792.4	177.66	5.460		
20,330.0	8,969.6	20,334.4	8,953.8	88.7	89.5	88.98	-11,196.9	-813.7	970.1	791.9	178.11	5.447		
20,400.0	8,969.7	20,404.4	8,953.9	89.2	90.1	88.98	-11,266.9	-814.3	970.1	790.9	179.16	5.415		
20,425.0	8,969.7	20,429.4	8,953.9	89.4	90.2	88.98	-11,291.9	-814.6	970.1	790.5	179.53	5.403		
20,500.0	8,969.8	20,504.4	8,954.0	90.0	90.8	88.99	-11,366.9	-815.2	970.1	789.4	180.65	5.370		
20,520.0	8,969.8	20,524.4	8,954.1	90.1	90.9	88.99	-11,386.9	-815.4	970.1	789.1	180.96	5.361		
20,600.0	8,969.9	20,604.4	8,954.2	90.7	91.5	88.99	-11,466.9	-816.1	970.1	787.9	182.16	5.325		
20,615.0	8,969.9	20,619.4	8,954.2	90.8	91.7	88.99	-11,481.9	-816.2	970.1	787.7	182.38	5.319		
20,700.0	8,970.0	20,704.4	8,954.3	91.5	92.3	88.99	-11,566.9	-817.0	970.1	786.4	183.66	5.282		
20,710.0	8,970.0	20,714.4	8,954.4	91.5	92.4	88.99	-11,576.9	-817.1	970.1	786.2	183.81	5.278		
20,800.0	8,970.1	20,804.4	8,954.5	92.2	93.0	89.00	-11,666.9	-817.9	970.1	784.9	185.16	5.239		
20,805.0	8,970.1	20,809.4	8,954.5	92.3	93.1	89.00	-11,671.9	-817.9	970.1	784.8	185.23	5.237		
20,900.0	8,970.2	20,904.4	8,954.7	93.0	93.8	89.00	-11,766.9	-818.8	970.1	783.4	186.66	5.197		
20,995.0	8,970.3	20,999.4	8,954.8	93.7	94.5	89.00	-11,861.9	-819.6	970.1	782.0	188.09	5.157		
21,000.0	8,970.3	21,004.4	8,954.8	93.7	94.5	89.00	-11,866.9	-819.7	970.1	781.9	188.16	5.155		
21,090.0	8,970.4	21,094.4	8,955.0	94.4	95.2	89.00	-11,956.9	-820.5	970.1	780.5	189.51	5.119		
21,100.0	8,970.5	21,104.4	8,955.0	94.5	95.3	89.00	-11,966.9	-820.6	970.1	780.4	189.66	5.115		
21,185.0	8,970.6	21,189.4	8,955.1	95.1	95.9	89.01	-12,051.8	-821.3	970.1	779.1	190.94	5.080		
21,200.0	8,970.6	21,204.4	8,955.2	95.2	96.0	89.01	-12,066.8	-821.4	970.1	778.9	191.17	5.074		
21,280.0	8,970.7	21,284.4	8,955.3	95.8	96.6	89.01	-12,146.8	-822.1	970.1	777.7	192.37	5.043		
21,300.0	8,970.7	21,304.4	8,955.3	96.0	96.8	89.01	-12,166.8	-822.3	970.1	777.4	192.67	5.035		
21,375.0	8,970.8	21,379.4	8,955.4	96.6	97.3	89.01	-12,241.8	-823.0	970.1	776.3	193.80	5.005		
21,400.0	8,970.8	21,404.4	8,955.5	96.8	97.5	89.01	-12,266.8	-823.2	970.1	775.9	194.17	4.996		
21,470.0	8,970.9	21,474.4	8,955.6	97.3	98.0	89.01	-12,336.8	-823.8	970.1	774.8	195.23	4.969		
21,500.0	8,970.9	21,504.4	8,955.6	97.5	98.3	89.01	-12,366.8	-824.1	970.1	774.4	195.68	4.957		
21,565.0	8,971.0	21,569.4	8,955.7	98.0	98.8	89.02	-12,431.8	-824.7	970.1	773.4	196.66	4.933		
21,600.0	8,971.0	21,604.4	8,955.8	98.3	99.0	89.02	-12,466.8	-825.0	970.1	772.9	197.18	4.920		
21,660.0	8,971.1	21,664.4	8,955.9	98.7	99.5	89.02	-12,526.8	-825.5	970.1	772.0	198.09	4.897		
21,700.0	8,971.1	21,704.4	8,956.0	99.0	99.8	89.02	-12,566.8	-825.9	970.1	771.4	198.69	4.882		
21,755.0	8,971.2	21,759.4	8,956.1	99.4	100.2	89.02	-12,621.8	-826.4	970.1	770.5	199.52	4.862		
21,800.0	8,971.3	21,804.4	8,956.1	99.8	100.5	89.02	-12,666.8	-826.8	970.1	769.9	200.19	4.846		
21,850.0	8,971.3	21,854.4	8,956.2	100.2	100.9	89.02	-12,716.8	-827.2	970.1	769.1	200.95	4.827		
21,900.0	8,971.4	21,904.4	8,956.3	100.5	101.3	89.03	-12,766.8	-827.7	970.1	768.4	201.70	4.809		
21,945.0	8,971.4	21,949.4	8,956.4	100.9	101.6	89.03	-12,811.8	-828.1	970.1	767.7	202.38	4.793		
22,000.0	8,971.5	22,004.4	8,956.4	101.3	102.0	89.03	-12,866.8	-828.5	970.1	766.8	203.21	4.774		
22,040.0	8,971.5	22,044.4	8,956.5	101.6	102.3	89.03	-12,906.8	-828.9	970.1	766.2	203.81	4.760		
22,100.0	8,971.6	22,104.4	8,956.6	102.0	102.8	89.03	-12,966.8	-829.4	970.1	765.3	204.71	4.739		

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 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 (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
22,135.0	8,971.6	22,139.4	8,956.7	102.3	103.0	89.03	89.03	-13,001.8	-829.7	970.1	764.8	205.24	4.726
22,200.0	8,971.7	22,204.4	8,956.8	102.8	103.5	89.03	89.03	-13,066.8	-830.3	970.1	763.8	206.22	4.704
22,230.0	8,971.8	22,234.4	8,956.8	103.0	103.7	89.04	89.04	-13,096.8	-830.6	970.1	763.4	206.67	4.694
22,300.0	8,971.8	22,304.4	8,956.9	103.6	104.3	89.04	89.04	-13,166.8	-831.2	970.1	762.3	207.72	4.670
22,325.0	8,971.9	22,329.4	8,957.0	103.7	104.4	89.04	89.04	-13,191.8	-831.4	970.1	761.9	208.10	4.661
22,400.0	8,971.9	22,404.4	8,957.1	104.3	105.0	89.04	89.04	-13,266.8	-832.1	970.1	760.8	209.23	4.636
22,420.0	8,972.0	22,424.4	8,957.1	104.5	105.2	89.04	89.04	-13,286.8	-832.3	970.1	760.5	209.53	4.630
22,500.0	8,972.1	22,504.4	8,957.3	105.1	105.8	89.04	89.04	-13,366.8	-833.0	970.1	759.3	210.74	4.603
22,515.0	8,972.1	22,519.4	8,957.3	105.2	105.9	89.04	89.04	-13,381.8	-833.1	970.1	759.1	210.97	4.598
22,600.0	8,972.2	22,604.4	8,957.4	105.8	106.5	89.05	89.05	-13,466.8	-833.9	970.1	757.8	212.25	4.570
22,610.0	8,972.2	22,614.4	8,957.4	105.9	106.6	89.05	89.05	-13,476.8	-834.0	970.1	757.7	212.40	4.567
22,700.0	8,972.3	22,704.4	8,957.6	106.6	107.3	89.05	89.05	-13,566.8	-834.8	970.1	756.3	213.76	4.538
22,705.0	8,972.3	22,709.4	8,957.6	106.6	107.3	89.05	89.05	-13,571.8	-834.8	970.1	756.2	213.83	4.537
22,800.0	8,972.4	22,804.4	8,957.7	107.3	108.0	89.05	89.05	-13,666.8	-835.6	970.1	754.8	215.26	4.506
22,895.0	8,972.5	22,899.4	8,957.9	108.1	108.7	89.05	89.05	-13,761.8	-836.5	970.1	753.4	216.70	4.477
22,900.0	8,972.5	22,904.4	8,957.9	108.1	108.8	89.05	89.05	-13,766.8	-836.5	970.1	753.3	216.77	4.475
22,990.0	8,972.6	22,994.4	8,958.0	108.8	109.4	89.06	89.06	-13,856.8	-837.3	970.1	751.9	218.13	4.447
23,000.0	8,972.6	23,004.4	8,958.1	108.8	109.5	89.06	89.06	-13,866.8	-837.4	970.1	751.8	218.28	4.444
23,085.0	8,972.7	23,089.4	8,958.2	109.5	110.2	89.06	89.06	-13,951.8	-838.2	970.1	750.5	219.56	4.418
23,100.0	8,972.7	23,104.4	8,958.2	109.6	110.3	89.06	89.06	-13,966.8	-838.3	970.1	750.3	219.79	4.414
23,180.0	8,972.8	23,184.4	8,958.4	110.2	110.9	89.06	89.06	-14,046.8	-839.0	970.1	749.1	221.00	4.389
23,200.0	8,972.9	23,204.4	8,958.4	110.4	111.0	89.06	89.06	-14,066.8	-839.2	970.1	748.8	221.30	4.383
23,273.7	8,972.9	23,278.2	8,958.5	110.9	111.6	89.06	89.06	-14,140.5	-839.8	970.1	747.6	222.41	4.361
23,275.0	8,972.9	23,279.4	8,958.5	110.9	111.6	89.06	89.06	-14,141.8	-839.9	970.1	747.6	222.43	4.361
23,300.0	8,973.0	23,304.4	8,958.5	111.1	111.8	89.07	89.07	-14,166.8	-840.1	970.1	747.2	222.81	4.354
23,370.0	8,973.1	23,374.4	8,958.7	111.6	112.3	89.07	89.07	-14,236.8	-840.7	970.1	746.2	223.87	4.333
23,400.0	8,973.1	23,404.4	8,958.7	111.9	112.5	89.07	89.07	-14,266.8	-841.0	970.1	745.7	224.32	4.324
23,465.0	8,973.2	23,469.4	8,958.8	112.4	113.0	89.07	89.07	-14,331.8	-841.5	970.1	744.7	225.30	4.306
23,500.0	8,973.2	23,504.4	8,958.9	112.6	113.3	89.07	89.07	-14,366.8	-841.9	970.1	744.2	225.83	4.295
23,560.0	8,973.3	23,564.4	8,959.0	113.1	113.7	89.07	89.07	-14,426.8	-842.4	970.1	743.3	226.74	4.278
23,600.0	8,973.3	23,604.4	8,959.0	113.4	114.0	89.07	89.07	-14,466.8	-842.7	970.1	742.7	227.34	4.267
23,655.0	8,973.4	23,659.4	8,959.1	113.8	114.4	89.08	89.08	-14,521.7	-843.2	970.1	741.9	228.17	4.251
23,700.0	8,973.4	23,704.4	8,959.2	114.1	114.8	89.08	89.08	-14,566.7	-843.6	970.1	741.2	228.85	4.239
23,750.0	8,973.5	23,754.4	8,959.3	114.5	115.2	89.08	89.08	-14,616.7	-844.1	970.1	740.4	229.61	4.225
23,800.0	8,973.5	23,804.4	8,959.4	114.9	115.5	89.08	89.08	-14,666.7	-844.5	970.1	739.7	230.36	4.211
23,845.0	8,973.6	23,849.4	8,959.4	115.2	115.9	89.08	89.08	-14,711.7	-844.9	970.1	739.0	231.04	4.199
23,900.0	8,973.7	23,904.4	8,959.5	115.7	116.3	89.08	89.08	-14,766.7	-845.4	970.1	738.2	231.87	4.184
23,940.0	8,973.7	23,944.4	8,959.6	116.0	116.6	89.08	89.08	-14,806.7	-845.8	970.1	737.6	232.48	4.173
24,000.0	8,973.8	24,004.4	8,959.7	116.4	117.0	89.08	89.08	-14,866.7	-846.3	970.1	736.7	233.38	4.156
24,035.0	8,973.8	24,039.4	8,959.7	116.7	117.3	89.09	89.09	-14,901.7	-846.6	970.1	736.1	233.91	4.147
24,067.0	8,973.9	24,071.4	8,959.8	116.9	117.5	89.09	89.09	-14,933.7	-846.9	970.1	735.7	234.40	4.139
24,100.0	8,973.9	24,104.4	8,959.8	117.2	117.8	89.09	89.09	-14,966.7	-847.2	970.1	735.2	234.89	4.130
24,130.0	8,973.9	24,134.4	8,959.9	117.4	118.0	89.09	89.09	-14,996.7	-847.4	970.1	734.7	235.35	4.122
24,197.0	8,974.0	24,201.4	8,960.0	117.9	118.5	89.09	89.09	-15,063.7	-848.0	970.1	733.7	236.36	4.104
24,197.9	8,974.0	24,202.3	8,960.0	117.9	118.5	89.09	89.09	-15,064.7	-848.1	970.1	733.7	236.37	4.104 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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 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 (usft)		
0.0	0.0	1.8	1.8	3.0	3.0	-91.02	-1.6	-90.0	90.0				
95.0	95.0	96.8	96.8	3.0	3.0	-91.02	-1.6	-90.0	90.0	84.0	6.04	14.911	
100.0	100.0	101.8	101.8	3.0	3.0	-91.02	-1.6	-90.0	90.0	84.0	6.04	14.898	
190.0	190.0	191.8	191.8	3.1	3.1	-91.02	-1.6	-90.0	90.0	83.8	6.26	14.390	
200.0	200.0	201.8	201.8	3.1	3.1	-91.02	-1.6	-90.0	90.0	83.7	6.29	14.315	
285.0	285.0	286.8	286.8	3.3	3.3	-91.02	-1.6	-90.0	90.0	83.5	6.49	13.880	
300.0	300.0	301.8	301.8	3.3	3.3	-91.02	-1.6	-90.0	90.0	83.5	6.52	13.797	
380.0	380.0	381.8	381.8	3.4	3.4	-91.02	-1.6	-90.0	90.0	83.3	6.70	13.427	
400.0	400.0	401.8	401.8	3.4	3.4	-91.02	-1.6	-90.0	90.0	83.3	6.75	13.331	
475.0	475.0	476.8	476.8	3.5	3.5	-91.02	-1.6	-90.0	90.0	83.1	6.92	13.016	
500.0	500.0	501.8	501.8	3.5	3.5	-91.02	-1.6	-90.0	90.0	83.0	6.97	12.910	
570.0	570.0	571.8	571.8	3.6	3.6	-91.02	-1.6	-90.0	90.0	82.9	7.12	12.641	
600.0	600.0	601.8	601.8	3.6	3.6	-91.02	-1.6	-90.0	90.0	82.8	7.19	12.526	
665.0	665.0	666.8	666.8	3.7	3.7	-91.02	-1.6	-90.0	90.0	82.7	7.32	12.297	
700.0	700.0	701.8	701.8	3.8	3.8	-91.02	-1.6	-90.0	90.0	82.6	7.39	12.174	
760.0	760.0	761.8	761.8	3.8	3.8	-91.02	-1.6	-90.0	90.0	82.5	7.51	11.980	
800.0	800.0	801.8	801.8	3.9	3.9	-91.02	-1.6	-90.0	90.0	82.4	7.60	11.851	
855.0	855.0	856.8	856.8	4.0	4.0	-91.02	-1.6	-90.0	90.0	82.3	7.70	11.686	
900.0	900.0	901.8	901.8	4.0	4.0	-91.02	-1.6	-90.0	90.0	82.2	7.79	11.552	
950.0	950.0	951.8	951.8	4.1	4.1	-91.02	-1.6	-90.0	90.0	82.1	7.89	11.413	
1,000.0	1,000.0	1,001.8	1,001.8	4.1	4.1	-91.02	-1.6	-90.0	90.0	82.0	7.98	11.274	
1,045.0	1,045.0	1,046.8	1,046.8	4.2	4.2	-91.02	-1.6	-90.0	90.0	81.9	8.07	11.157	
1,100.0	1,100.0	1,101.8	1,101.8	4.2	4.2	-91.02	-1.6	-90.0	90.0	81.8	8.17	11.016	
1,140.0	1,140.0	1,141.8	1,141.8	4.3	4.3	-91.02	-1.6	-90.0	90.0	81.8	8.24	10.919	
1,200.0	1,200.0	1,201.8	1,201.8	4.4	4.4	-91.02	-1.6	-90.0	90.0	81.7	8.35	10.775	
1,235.0	1,235.0	1,236.8	1,236.8	4.4	4.4	-91.02	-1.6	-90.0	90.0	81.6	8.42	10.695	
1,300.0	1,300.0	1,301.8	1,301.8	4.5	4.5	-91.02	-1.6	-90.0	90.0	81.5	8.53	10.548	
1,330.0	1,330.0	1,331.8	1,331.8	4.5	4.5	-91.02	-1.6	-90.0	90.0	81.4	8.59	10.484	
1,400.0	1,400.0	1,401.8	1,401.8	4.6	4.6	-91.02	-1.6	-90.0	90.0	81.3	8.71	10.336	
1,425.0	1,425.0	1,426.8	1,426.8	4.6	4.6	-91.02	-1.6	-90.0	90.0	81.3	8.75	10.285	
1,436.9	1,436.9	1,438.7	1,438.7	4.6	4.6	-91.02	-1.6	-90.0	90.0	81.2	8.77	10.262 CC	
1,500.0	1,500.0	1,501.7	1,501.7	4.7	4.7	-91.02	-1.6	-90.0	90.0	81.1	8.88	10.134 ES	
1,520.0	1,520.0	1,521.2	1,521.2	4.8	4.7	-125.33	-1.6	-90.1	90.1	81.2	8.94	10.081 SF	
1,600.0	1,600.0	1,600.0	1,600.0	4.9	4.8	-125.80	-1.1	-91.7	92.7	83.5	9.18	10.097	
1,615.0	1,615.0	1,613.3	1,613.3	4.9	4.9	-125.93	-0.9	-92.1	93.5	84.3	9.24	10.120	
1,700.0	1,699.8	1,695.4	1,695.2	5.1	5.0	-127.07	0.4	-96.3	100.6	91.0	9.63	10.447	
1,710.0	1,709.8	1,705.0	1,704.8	5.2	5.0	-127.22	0.6	-97.0	101.7	92.0	9.68	10.510	
1,800.0	1,799.5	1,791.1	1,790.6	5.4	5.2	-128.79	2.9	-104.1	113.9	103.8	10.10	11.276	
1,805.0	1,804.4	1,795.9	1,795.3	5.4	5.3	-128.88	3.1	-104.5	114.7	104.5	10.12	11.329	
1,900.0	1,898.7	1,885.6	1,884.4	5.7	5.5	-130.57	6.3	-114.7	132.4	121.8	10.58	12.519	
1,950.1	1,948.2	1,932.3	1,930.6	5.8	5.7	-131.42	8.4	-121.0	143.7	132.9	10.77	13.341	
1,995.0	1,992.6	1,973.8	1,971.6	5.9	5.8	-132.20	10.4	-127.2	154.7	143.8	10.95	14.137	
2,000.0	1,997.5	1,978.4	1,976.2	5.9	5.8	-132.27	10.6	-127.9	156.0	145.0	10.96	14.227	
2,090.0	2,086.4	2,060.8	2,057.3	6.1	6.1	-133.22	15.1	-142.1	179.9	168.5	11.38	15.805	
2,100.0	2,096.3	2,069.9	2,066.2	6.1	6.1	-133.29	15.7	-143.8	182.7	171.3	11.43	15.986	
2,185.0	2,180.3	2,146.6	2,141.1	6.4	6.4	-133.64	20.6	-159.2	207.6	195.8	11.83	17.542	
2,200.0	2,195.1	2,160.0	2,154.2	6.4	6.5	-133.67	21.6	-162.1	212.2	200.3	11.91	17.823	
2,280.0	2,274.1	2,233.2	2,225.3	6.7	6.7	-133.68	26.9	-178.7	237.5	225.2	12.30	19.314	
2,300.0	2,293.8	2,252.2	2,243.7	6.7	6.8	-133.67	28.3	-183.0	243.9	231.5	12.40	19.673	
2,375.0	2,367.9	2,323.2	2,312.6	7.0	7.0	-133.65	33.6	-199.4	267.8	255.0	12.78	20.953	
2,400.0	2,392.6	2,346.9	2,335.6	7.0	7.1	-133.64	35.3	-204.9	275.8	262.9	12.91	21.358	

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 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	Vertical	Measured	Vertical	Reference	Offset	Highside				Distance					
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Between	Between	Minimum	Separation			
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	Centres	Ellipses	Separation	Factor			
									(usft)	(usft)	(usft)				
2,470.0	2,461.7	2,413.3	2,400.0	7.3	7.3	-133.63	40.2	-220.1	298.2	284.9	13.29	22.437			
2,500.0	2,491.4	2,441.7	2,427.6	7.4	7.4	-133.62	42.3	-226.7	307.7	294.3	13.45	22.875			
2,565.0	2,555.6	2,503.3	2,487.3	7.6	7.6	-133.61	46.9	-240.9	328.5	314.7	13.81	23.780			
2,600.0	2,590.1	2,536.5	2,519.5	7.7	7.7	-133.60	49.3	-248.5	339.7	325.7	14.01	24.241			
2,660.0	2,649.4	2,593.3	2,574.7	7.9	7.9	-133.60	53.5	-261.6	358.8	344.5	14.36	24.996			
2,700.0	2,688.9	2,631.2	2,611.5	8.1	8.1	-133.59	56.3	-270.3	371.6	357.0	14.59	25.472			
2,755.0	2,743.2	2,683.3	2,662.1	8.2	8.3	-133.58	60.2	-282.3	389.2	374.3	14.91	26.097			
2,800.0	2,787.7	2,726.0	2,703.4	8.4	8.4	-133.58	63.4	-292.1	403.6	388.4	15.18	26.583			
2,850.0	2,837.1	2,773.4	2,749.4	8.6	8.6	-133.57	66.9	-303.0	419.5	404.0	15.48	27.096			
2,900.0	2,886.5	2,820.8	2,795.4	8.8	8.8	-133.57	70.4	-313.9	435.5	419.7	15.79	27.586			
2,945.0	2,930.9	2,863.4	2,836.8	8.9	9.0	-133.56	73.5	-323.8	449.9	433.8	16.06	28.005			
3,000.0	2,985.2	2,915.5	2,887.3	9.2	9.2	-133.56	77.4	-335.8	467.4	451.0	16.40	28.494			
3,040.0	3,024.7	2,953.4	2,924.1	9.3	9.3	-133.55	80.2	-344.5	480.2	463.5	16.65	28.833			
3,100.0	3,084.0	3,010.3	2,979.3	9.5	9.6	-133.55	84.4	-357.6	499.4	482.3	17.03	29.318			
3,135.0	3,118.6	3,043.4	3,011.5	9.7	9.7	-133.55	86.8	-365.2	510.5	493.3	17.26	29.587			
3,200.0	3,182.8	3,105.0	3,071.2	9.9	9.9	-133.54	91.4	-379.4	531.3	513.6	17.67	30.067			
3,230.0	3,212.4	3,133.5	3,098.8	10.0	10.1	-133.54	93.5	-386.0	540.9	523.0	17.86	30.278			
3,300.0	3,281.5	3,199.8	3,163.2	10.3	10.3	-133.54	98.4	-401.2	563.2	544.9	18.32	30.749			
3,325.0	3,306.2	3,223.5	3,186.2	10.4	10.4	-133.54	100.2	-406.7	571.2	552.7	18.48	30.910			
3,400.0	3,380.3	3,294.6	3,255.1	10.7	10.8	-133.53	105.4	-423.0	595.2	576.2	18.97	31.372			
3,420.0	3,400.0	3,313.5	3,273.5	10.8	10.8	-133.53	106.8	-427.4	601.6	582.5	19.10	31.490			
3,500.0	3,479.1	3,389.3	3,347.1	11.1	11.2	-133.53	112.4	-444.9	627.1	607.5	19.63	31.942			
3,515.0	3,493.9	3,403.5	3,360.9	11.2	11.2	-133.53	113.5	-448.1	631.9	612.2	19.73	32.024			
3,600.0	3,577.8	3,484.1	3,439.0	11.5	11.6	-133.52	119.4	-466.7	659.1	638.8	20.30	32.465			
3,610.0	3,587.7	3,493.6	3,448.2	11.5	11.6	-133.52	120.1	-468.9	662.3	641.9	20.37	32.515			
3,700.0	3,676.6	3,578.9	3,531.0	11.9	12.0	-133.52	126.5	-488.5	691.0	670.0	20.97	32.946			
3,705.0	3,681.5	3,583.6	3,535.6	11.9	12.0	-133.52	126.8	-489.6	692.6	671.6	21.01	32.969			
3,800.0	3,775.4	3,673.6	3,622.9	12.3	12.4	-133.51	133.5	-510.3	722.9	701.3	21.65	33.389			
3,895.0	3,869.2	3,763.6	3,710.3	12.7	12.8	-133.51	140.1	-531.1	753.3	731.0	22.30	33.778			
3,900.0	3,874.1	3,768.4	3,714.9	12.7	12.8	-133.51	140.5	-532.1	754.9	732.5	22.33	33.798			
3,990.0	3,963.0	3,853.7	3,797.6	13.1	13.2	-133.51	146.8	-551.8	783.6	760.7	22.95	34.140			
4,000.0	3,972.9	3,863.1	3,806.8	13.1	13.3	-133.51	147.5	-554.0	786.8	763.8	23.02	34.176			
4,085.0	4,056.9	3,943.7	3,885.0	13.5	13.6	-133.51	153.5	-572.5	814.0	790.3	23.61	34.476			
4,100.0	4,071.7	3,957.9	3,898.8	13.6	13.7	-133.51	154.5	-575.8	818.7	795.0	23.71	34.527			
4,180.0	4,150.7	4,033.7	3,972.3	13.9	14.0	-133.50	160.1	-593.2	844.3	820.0	24.27	34.790			
4,200.0	4,170.4	4,052.7	3,990.7	14.0	14.1	-133.50	161.5	-597.6	850.7	826.3	24.41	34.853			
4,210.2	4,180.5	4,062.3	4,000.1	14.0	14.2	-133.50	162.2	-599.8	853.9	829.5	24.47	34.893			
4,275.0	4,244.6	4,123.8	4,059.8	14.3	14.4	-133.64	166.8	-614.0	874.4	849.5	24.92	35.092			
4,300.0	4,269.3	4,147.6	4,082.8	14.4	14.6	-133.68	168.5	-619.5	882.2	857.1	25.09	35.161			
4,370.0	4,338.7	4,214.2	4,147.5	14.7	14.9	-133.77	173.5	-634.8	903.5	878.0	25.57	35.333			
4,400.0	4,368.4	4,242.8	4,175.3	14.8	15.0	-133.79	175.6	-641.4	912.5	886.7	25.78	35.398			
4,465.0	4,433.0	4,305.0	4,235.5	15.0	15.3	-133.82	180.2	-655.7	931.6	905.4	26.22	35.527			
4,500.0	4,467.8	4,338.4	4,268.0	15.2	15.4	-133.82	182.7	-663.4	941.7	915.2	26.46	35.587			
4,560.0	4,527.5	4,395.9	4,323.8	15.4	15.7	-133.80	186.9	-676.7	958.7	931.8	26.87	35.682			
4,600.0	4,567.3	4,434.3	4,361.1	15.6	15.9	-133.78	189.8	-685.5	969.7	942.6	27.14	35.735			
4,655.0	4,622.1	4,487.2	4,412.4	15.8	16.1	-133.72	193.7	-697.7	984.7	957.2	27.50	35.803			
4,700.0	4,667.0	4,530.5	4,454.4	15.9	16.3	-133.66	196.9	-707.6	996.7	968.9	27.80	35.848			
4,750.0	4,716.9	4,578.7	4,501.1	16.1	16.5	-133.58	200.4	-718.7	1,009.7	981.6	28.13	35.894			
4,800.0	4,766.8	4,626.9	4,547.9	16.3	16.8	-133.48	204.0	-729.8	1,022.4	994.0	28.46	35.930			
4,845.0	4,811.7	4,670.4	4,590.1	16.4	17.0	-133.38	207.2	-739.8	1,033.7	1,004.9	28.74	35.962			
4,900.0	4,866.7	4,723.5	4,641.7	16.6	17.2	-133.24	211.2	-752.1	1,047.1	1,018.0	29.09	35.990			

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #710H - OWB - PWP1											Offset Site Error:		0.0 usft	
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8487-r.5 MWD+IFR1+MS						Rule Assigned:		Offset Well Error:		3.0 usft		
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
4,940.0	4,906.6	4,762.2	4,679.2	16.7	17.4	-133.13	214.0	-761.0	1,056.7	1,027.3	29.34	36.013		
5,000.0	4,966.6	4,820.3	4,735.6	16.9	17.7	-132.94	218.3	-774.4	1,070.7	1,041.0	29.71	36.036		
5,035.0	5,001.6	4,854.3	4,768.5	17.0	17.8	-132.82	220.8	-782.2	1,078.7	1,048.8	29.91	36.059		
5,100.0	5,066.6	4,917.3	4,829.7	17.1	18.1	-132.58	225.5	-796.7	1,093.2	1,062.9	30.29	36.092		
5,110.4	5,077.0	4,927.4	4,839.4	17.1	18.2	-98.25	226.2	-799.0	1,095.4	1,065.1	30.34	36.110		
5,130.0	5,096.6	4,946.4	4,857.9	17.1	18.3	-98.14	227.6	-803.4	1,099.7	1,069.3	30.43	36.141		
5,200.0	5,166.6	5,014.3	4,923.8	17.2	18.6	-97.76	232.7	-819.0	1,115.1	1,084.3	30.76	36.249		
5,225.0	5,191.6	5,038.6	4,947.4	17.2	18.7	-97.63	234.5	-824.6	1,120.5	1,089.7	30.88	36.284		
5,300.0	5,266.6	5,111.3	5,018.0	17.2	19.0	-97.24	239.8	-841.4	1,137.0	1,105.8	31.25	36.387		
5,320.0	5,286.6	5,130.8	5,036.8	17.2	19.1	-97.14	241.3	-845.8	1,141.4	1,110.1	31.35	36.414		
5,400.0	5,366.6	5,208.4	5,112.1	17.3	19.5	-96.74	247.0	-863.7	1,159.1	1,127.4	31.74	36.519		
5,415.0	5,381.6	5,222.9	5,126.2	17.3	19.6	-96.66	248.1	-867.1	1,162.4	1,130.6	31.81	36.538		
5,500.0	5,466.6	5,305.4	5,206.3	17.3	20.0	-96.25	254.2	-886.1	1,181.3	1,149.0	32.24	36.644		
5,510.0	5,476.6	5,315.1	5,215.7	17.4	20.0	-96.20	254.9	-888.3	1,183.5	1,151.2	32.29	36.656		
5,600.0	5,566.6	5,402.4	5,300.4	17.4	20.4	-95.78	261.4	-908.4	1,203.5	1,170.8	32.74	36.763		
5,605.0	5,571.6	5,407.3	5,305.1	17.4	20.4	-95.76	261.7	-909.5	1,204.6	1,171.8	32.76	36.769		
5,700.0	5,666.6	5,499.5	5,394.6	17.5	20.9	-95.33	268.6	-930.7	1,225.8	1,192.6	33.24	36.877		
5,795.0	5,761.6	5,591.7	5,484.0	17.5	21.3	-94.92	275.4	-952.0	1,247.1	1,213.3	33.72	36.980		
5,800.0	5,766.6	5,596.5	5,488.7	17.5	21.3	-94.90	275.7	-953.1	1,248.2	1,214.4	33.75	36.985		
5,890.0	5,856.6	5,683.8	5,573.5	17.6	21.8	-94.52	282.2	-973.2	1,268.4	1,234.2	34.21	37.078		
5,900.0	5,866.6	5,693.5	5,582.9	17.6	21.8	-94.48	282.9	-975.4	1,270.6	1,236.4	34.26	37.089		
5,985.0	5,951.6	5,776.0	5,662.9	17.6	22.2	-94.13	289.0	-994.4	1,289.7	1,255.0	34.70	37.173		
6,000.0	5,966.6	5,790.6	5,677.0	17.6	22.3	-94.07	290.1	-997.8	1,293.1	1,258.3	34.77	37.187		
6,080.0	6,046.6	5,868.2	5,752.3	17.7	22.6	-93.76	295.8	-1,015.6	1,311.2	1,276.0	35.19	37.263		
6,100.0	6,066.6	5,887.6	5,771.2	17.7	22.7	-93.68	297.3	-1,020.1	1,315.7	1,280.4	35.29	37.281		

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 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 #803H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9326-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Offset	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Distance		Minimum Separation	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	(°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	(usft)		
5,890.0	5,856.6	6,218.3	6,092.0	17.6	24.3	77.97	648.0	1,518.1	1,314.3	1,278.2	36.08	36.422	
5,900.0	5,866.6	6,218.3	6,092.0	17.6	24.3	77.97	648.0	1,518.1	1,312.3	1,276.2	36.11	36.343	
5,985.0	5,951.6	6,285.8	6,157.7	17.6	24.6	77.57	653.9	1,503.7	1,296.1	1,259.7	36.47	35.544	
6,000.0	5,966.6	6,300.0	6,171.6	17.6	24.7	77.49	655.1	1,500.9	1,293.4	1,256.9	36.53	35.404	
6,080.0	6,046.6	6,353.6	6,224.1	17.7	25.0	77.21	659.3	1,490.7	1,279.9	1,243.0	36.83	34.749	
6,100.0	6,066.6	6,368.0	6,238.2	17.7	25.0	77.13	660.4	1,488.2	1,276.7	1,239.8	36.91	34.592	
6,175.0	6,141.6	6,422.1	6,291.3	17.7	25.3	76.87	664.1	1,479.1	1,265.5	1,228.4	37.18	34.037	
6,200.0	6,166.6	6,440.2	6,309.2	17.7	25.4	76.79	665.3	1,476.3	1,262.1	1,224.8	37.27	33.865	
6,270.0	6,236.6	6,500.0	6,368.3	17.8	25.7	76.54	668.9	1,467.7	1,253.2	1,215.6	37.54	33.382	
6,300.0	6,266.6	6,500.0	6,368.3	17.8	25.7	76.54	668.9	1,467.7	1,249.7	1,212.1	37.56	33.272	
6,365.0	6,331.6	6,560.7	6,428.4	17.8	25.9	76.32	672.0	1,460.1	1,242.6	1,204.8	37.81	32.863	
6,400.0	6,366.6	6,586.4	6,453.9	17.8	26.0	76.24	673.2	1,457.2	1,239.2	1,201.3	37.92	32.680	
6,460.0	6,426.6	6,630.6	6,497.9	17.9	26.2	76.10	675.0	1,452.8	1,234.0	1,195.9	38.09	32.394	
6,500.0	6,466.6	6,660.2	6,527.3	17.9	26.3	76.03	676.1	1,450.2	1,230.9	1,192.7	38.20	32.220	
6,555.0	6,521.6	6,700.0	6,567.0	17.9	26.5	75.93	677.3	1,447.2	1,227.2	1,188.9	38.35	32.002	
6,600.0	6,566.6	6,734.3	6,601.2	18.0	26.6	75.87	678.2	1,445.0	1,224.7	1,186.2	38.46	31.843	
6,650.0	6,616.6	6,771.5	6,638.3	18.0	26.8	75.81	679.1	1,443.0	1,222.4	1,183.8	38.58	31.686	
6,700.0	6,666.6	6,800.0	6,666.8	18.0	26.9	75.77	679.6	1,441.8	1,220.6	1,182.0	38.65	31.581	
6,745.0	6,711.6	6,842.2	6,709.0	18.0	27.0	75.73	680.1	1,440.4	1,219.4	1,180.7	38.77	31.454	
6,800.0	6,766.6	6,883.3	6,750.0	18.1	27.1	75.71	680.4	1,439.7	1,218.6	1,179.7	38.87	31.354	
6,840.0	6,806.6	6,913.1	6,779.9	18.1	27.2	75.70	680.5	1,439.5	1,218.3	1,179.4	38.91	31.309	
6,862.6	6,829.2	6,933.9	6,800.7	18.1	27.2	75.70	680.5	1,439.5	1,218.3	1,179.4	38.93	31.293	
6,900.0	6,866.6	6,971.3	6,838.1	18.1	27.2	75.70	680.5	1,439.5	1,218.3	1,179.4	38.97	31.265	
6,935.0	6,901.6	7,006.3	6,873.1	18.2	27.2	75.70	680.5	1,439.5	1,218.3	1,179.3	39.00	31.238	
7,000.0	6,966.6	7,071.3	6,938.1	18.2	27.2	75.70	680.5	1,439.5	1,218.3	1,179.3	39.07	31.185	
7,030.0	6,996.6	7,101.3	6,968.1	18.2	27.2	75.70	680.5	1,439.5	1,218.3	1,179.2	39.10	31.160	
7,100.0	7,066.6	7,171.3	7,038.1	18.2	27.3	75.70	680.5	1,439.5	1,218.3	1,179.2	39.17	31.103	
7,125.0	7,091.6	7,196.3	7,063.1	18.3	27.3	75.70	680.5	1,439.5	1,218.3	1,179.1	39.20	31.083	
7,200.0	7,166.6	7,271.3	7,138.1	18.3	27.3	75.70	680.5	1,439.5	1,218.3	1,179.1	39.27	31.022	
7,220.0	7,186.6	7,291.3	7,158.1	18.3	27.3	75.70	680.5	1,439.5	1,218.3	1,179.0	39.29	31.005	
7,300.0	7,266.6	7,371.3	7,238.1	18.4	27.3	75.70	680.5	1,439.5	1,218.3	1,179.0	39.38	30.940	
7,315.0	7,281.6	7,386.3	7,253.1	18.4	27.3	75.70	680.5	1,439.5	1,218.3	1,178.9	39.39	30.928	
7,400.0	7,366.6	7,471.3	7,338.1	18.4	27.3	75.70	680.5	1,439.5	1,218.3	1,178.9	39.48	30.859	
7,410.0	7,376.6	7,481.3	7,348.1	18.4	27.4	75.70	680.5	1,439.5	1,218.3	1,178.9	39.49	30.851	
7,500.0	7,466.6	7,571.3	7,438.1	18.5	27.4	75.70	680.5	1,439.5	1,218.3	1,178.8	39.59	30.777	
7,505.0	7,471.6	7,576.3	7,443.1	18.5	27.4	75.70	680.5	1,439.5	1,218.3	1,178.8	39.59	30.773	
7,600.0	7,566.6	7,671.3	7,538.1	18.5	27.4	75.70	680.5	1,439.5	1,218.3	1,178.7	39.69	30.696	
7,695.0	7,661.6	7,766.3	7,633.1	18.6	27.4	75.70	680.5	1,439.5	1,218.3	1,178.6	39.79	30.620	
7,700.0	7,666.6	7,771.3	7,638.1	18.6	27.4	75.70	680.5	1,439.5	1,218.3	1,178.5	39.79	30.616	
7,790.0	7,756.6	7,861.3	7,728.1	18.6	27.5	75.70	680.5	1,439.5	1,218.3	1,178.5	39.89	30.543	
7,800.0	7,766.6	7,871.3	7,738.1	18.7	27.5	75.70	680.5	1,439.5	1,218.3	1,178.4	39.90	30.535	
7,885.0	7,851.6	7,956.3	7,823.1	18.7	27.5	75.70	680.5	1,439.5	1,218.3	1,178.4	39.99	30.466	
7,900.0	7,866.6	7,971.3	7,838.1	18.7	27.5	75.70	680.5	1,439.5	1,218.3	1,178.3	40.01	30.454	
7,980.0	7,946.6	8,051.3	7,918.1	18.8	27.5	75.70	680.5	1,439.5	1,218.3	1,178.3	40.09	30.390	
8,000.0	7,966.6	8,071.3	7,938.1	18.8	27.6	75.70	680.5	1,439.5	1,218.3	1,178.2	40.11	30.374	
8,075.0	8,041.6	8,146.3	8,013.1	18.8	27.6	75.70	680.5	1,439.5	1,218.3	1,178.2	40.19	30.313	
8,100.0	8,066.6	8,171.3	8,038.1	18.8	27.6	75.70	680.5	1,439.5	1,218.3	1,178.1	40.22	30.293	
8,170.0	8,136.6	8,241.3	8,108.1	18.9	27.6	75.70	680.5	1,439.5	1,218.3	1,178.0	40.29	30.237	
8,200.0	8,166.6	8,271.3	8,138.1	18.9	27.6	75.70	680.5	1,439.5	1,218.3	1,178.0	40.32	30.213	
8,265.0	8,231.6	8,336.3	8,203.1	18.9	27.6	75.70	680.5	1,439.5	1,218.3	1,177.9	40.39	30.161	
8,300.0	8,266.6	8,371.3	8,238.1	19.0	27.7	75.70	680.5	1,439.5	1,218.3	1,177.9	40.43	30.133	

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 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 #803H - OWB - PWP1											Offset Site Error:		0.0 usft	
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9326-r.5 MWD+IFR1+MS											Offset Well Error:		3.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Rule Assigned:							
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside			Distance						Warning	
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Between	Between	Minimum	Separation				
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	Centres	Ellipses	Separation	Factor				
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)					
8,360.0	8,326.6	8,431.3	8,298.1	19.0	27.7	75.70	680.5	1,439.5	1,218.3	1,177.8	40.50	30.085				
8,400.0	8,366.6	8,471.3	8,338.1	19.0	27.7	75.70	680.5	1,439.5	1,218.3	1,177.8	40.54	30.054				
8,417.4	8,384.0	8,488.8	8,355.5	19.0	27.7	75.70	680.5	1,439.5	1,218.3	1,177.8	40.55	30.046	CC, ES			
8,450.0	8,416.6	8,521.3	8,388.1	19.0	27.7	-104.83	680.5	1,439.5	1,218.6	1,178.0	40.56	30.041	SF			
8,455.0	8,421.6	8,526.3	8,393.1	19.0	27.7	-104.83	680.5	1,439.5	1,218.7	1,178.1	40.57	30.042				
8,500.0	8,466.3	8,571.1	8,437.8	19.1	27.7	-104.93	680.5	1,439.5	1,219.9	1,179.3	40.58	30.062				
8,550.0	8,515.4	8,620.2	8,486.9	19.1	27.7	-105.10	680.5	1,439.5	1,222.3	1,181.8	40.58	30.122				
8,600.0	8,563.5	8,668.3	8,535.0	19.2	27.8	-105.34	680.5	1,439.5	1,226.0	1,185.5	40.57	30.223				
8,645.0	8,605.7	8,710.4	8,577.2	19.2	27.8	-105.57	680.5	1,439.5	1,230.5	1,190.0	40.54	30.351				
8,650.0	8,610.3	8,715.0	8,581.8	19.2	27.8	-105.60	680.5	1,439.5	1,231.1	1,190.5	40.54	30.367				
8,700.0	8,655.3	8,760.0	8,626.8	19.3	27.8	-105.85	680.5	1,439.5	1,237.6	1,197.1	40.50	30.559				
8,740.0	8,689.8	8,794.6	8,661.3	19.3	27.8	-106.01	680.5	1,439.5	1,243.9	1,203.4	40.46	30.747				
8,750.0	8,698.3	8,803.0	8,669.8	19.3	27.8	-106.05	680.5	1,439.5	1,245.6	1,205.2	40.44	30.799				
8,800.0	8,738.8	8,843.5	8,710.3	19.4	27.8	-106.15	680.5	1,439.5	1,255.4	1,215.1	40.38	31.093				
8,835.0	8,765.6	8,870.3	8,737.1	19.4	27.8	-106.14	680.5	1,439.5	1,263.4	1,223.1	40.32	31.331				
8,850.0	8,776.7	8,881.4	8,748.2	19.5	27.8	-106.11	680.5	1,439.5	1,267.1	1,226.8	40.30	31.442				
8,900.0	8,811.6	8,916.3	8,783.1	19.5	27.8	-105.87	680.5	1,439.5	1,280.7	1,240.5	40.21	31.849				
8,930.0	8,830.9	8,935.7	8,802.4	19.5	27.9	-105.61	680.5	1,439.5	1,289.9	1,249.7	40.16	32.122				
8,950.0	8,843.2	8,947.9	8,814.7	19.6	27.9	-105.38	680.5	1,439.5	1,296.4	1,256.3	40.12	32.316				
9,000.0	8,871.3	8,976.0	8,842.8	19.6	27.9	-104.59	680.5	1,439.5	1,314.2	1,274.2	40.01	32.845				

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 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	-11.54	149.4	-30.5	152.5					
95.0	95.0	92.4	92.4	3.0	3.0	-11.54	149.4	-30.5	152.5	146.4	6.04	25.265		
100.0	100.0	97.4	97.4	3.0	3.0	-11.54	149.4	-30.5	152.5	146.4	6.04	25.244		
190.0	190.0	187.4	187.4	3.1	3.1	-11.54	149.4	-30.5	152.5	146.2	6.25	24.382		
200.0	200.0	197.4	197.4	3.1	3.1	-11.54	149.4	-30.5	152.5	146.2	6.29	24.248		
285.0	285.0	282.4	282.4	3.3	3.2	-11.54	149.4	-30.5	152.5	146.0	6.50	23.469		
300.0	300.0	297.4	297.4	3.3	3.3	-11.54	149.4	-30.5	152.5	145.9	6.54	23.319		
380.0	380.0	377.4	377.4	3.4	3.4	-11.54	149.4	-30.5	152.5	145.7	6.73	22.644		
400.0	400.0	397.4	397.4	3.4	3.4	-11.54	149.4	-30.5	152.5	145.7	6.79	22.469		
475.0	475.0	472.4	472.4	3.5	3.5	-11.54	149.4	-30.5	152.5	145.5	6.97	21.882		
500.0	500.0	497.4	497.4	3.5	3.5	-11.54	149.4	-30.5	152.5	145.4	7.03	21.684		
570.0	570.0	567.4	567.4	3.6	3.6	-11.54	149.4	-30.5	152.5	145.3	7.20	21.176		
600.0	600.0	597.4	597.4	3.6	3.6	-11.54	149.4	-30.5	152.5	145.2	7.28	20.957		
665.0	665.0	662.4	662.4	3.7	3.7	-11.54	149.4	-30.5	152.5	145.0	7.43	20.518		
700.0	700.0	697.4	697.4	3.8	3.8	-11.54	149.4	-30.5	152.5	145.0	7.52	20.282		
760.0	760.0	757.4	757.4	3.8	3.8	-11.54	149.4	-30.5	152.5	144.8	7.66	19.903		
800.0	800.0	797.4	797.4	3.9	3.9	-11.54	149.4	-30.5	152.5	144.7	7.76	19.652		
855.0	855.0	852.4	852.4	4.0	3.9	-11.54	149.4	-30.5	152.5	144.6	7.89	19.326		
900.0	900.0	897.4	897.4	4.0	4.0	-11.54	149.4	-30.5	152.5	144.5	8.00	19.063		
950.0	950.0	947.4	947.4	4.1	4.1	-11.54	149.4	-30.5	152.5	144.4	8.12	18.785		
1,000.0	1,000.0	997.4	997.4	4.1	4.1	-11.54	149.4	-30.5	152.5	144.2	8.24	18.511		
1,045.0	1,045.0	1,042.4	1,042.4	4.2	4.2	-11.54	149.4	-30.5	152.5	144.1	8.34	18.276		
1,100.0	1,100.0	1,097.4	1,097.4	4.2	4.2	-11.54	149.4	-30.5	152.5	144.0	8.47	17.992		
1,140.0	1,140.0	1,137.4	1,137.4	4.3	4.3	-11.54	149.4	-30.5	152.5	143.9	8.57	17.795		
1,200.0	1,200.0	1,197.4	1,197.4	4.4	4.4	-11.54	149.4	-30.5	152.5	143.8	8.71	17.504		
1,235.0	1,235.0	1,232.4	1,232.4	4.4	4.4	-11.54	149.4	-30.5	152.5	143.7	8.79	17.341		
1,300.0	1,300.0	1,297.4	1,297.4	4.5	4.5	-11.54	149.4	-30.5	152.5	143.5	8.95	17.043		
1,330.0	1,330.0	1,327.4	1,327.4	4.5	4.5	-11.54	149.4	-30.5	152.5	143.5	9.02	16.910		
1,400.0	1,400.0	1,397.4	1,397.4	4.6	4.6	-11.54	149.4	-30.5	152.5	143.3	9.18	16.607		
1,425.0	1,425.0	1,422.4	1,422.4	4.6	4.6	-11.54	149.4	-30.5	152.5	143.2	9.24	16.502		
1,500.0	1,500.0	1,497.4	1,497.4	4.7	4.7	-11.54	149.4	-30.5	152.5	143.1	9.42	16.194		
1,520.0	1,520.0	1,517.0	1,517.0	4.8	4.7	-45.84	149.4	-30.5	152.5	143.0	9.47	16.092		
1,600.0	1,600.0	1,594.9	1,594.9	4.9	4.9	-45.78	150.4	-29.3	152.1	142.4	9.68	15.706		
1,615.0	1,615.0	1,609.5	1,609.5	4.9	4.9	-45.76	150.8	-28.9	151.9	142.2	9.73	15.606		
1,700.0	1,699.8	1,692.4	1,692.2	5.1	5.1	-45.57	153.6	-25.6	150.9	140.8	10.06	14.998		
1,710.0	1,709.8	1,702.1	1,702.0	5.2	5.1	-45.54	154.1	-25.1	150.7	140.6	10.10	14.925		
1,800.0	1,799.5	1,789.8	1,789.3	5.4	5.3	-45.19	159.0	-19.4	148.9	138.5	10.45	14.249		
1,805.0	1,804.4	1,794.7	1,794.2	5.4	5.4	-45.17	159.3	-19.0	148.8	138.3	10.47	14.210		
1,900.0	1,898.7	1,887.2	1,886.1	5.7	5.6	-44.63	166.5	-10.7	146.2	135.3	10.86	13.460		
1,950.1	1,948.2	1,936.0	1,934.4	5.8	5.8	-44.27	171.1	-5.4	144.6	133.6	11.02	13.119		
1,995.0	1,992.6	1,979.8	1,977.5	5.9	5.9	-43.79	175.6	-0.2	143.2	132.1	11.17	12.823		
2,000.0	1,997.5	1,984.6	1,982.3	5.9	5.9	-43.72	176.1	0.4	143.1	131.9	11.19	12.792		
2,090.0	2,086.4	2,072.2	2,068.4	6.1	6.2	-42.00	186.6	12.6	141.6	130.0	11.59	12.216		
2,100.0	2,096.3	2,081.9	2,077.9	6.1	6.3	-41.75	187.9	14.1	141.6	129.9	11.64	12.161		
2,123.4	2,119.4	2,104.6	2,100.1	6.2	6.3	-41.12	191.0	17.6	141.5	129.7	11.76	12.035 CC, ES		
2,185.0	2,180.3	2,164.3	2,158.4	6.4	6.5	-39.19	199.5	27.5	141.9	129.9	12.08	11.746		
2,200.0	2,195.1	2,178.8	2,172.5	6.4	6.6	-38.67	201.7	30.1	142.2	130.0	12.17	11.686		
2,280.0	2,274.1	2,257.8	2,249.1	6.7	6.9	-35.61	214.2	44.5	144.2	131.5	12.65	11.403		
2,300.0	2,293.8	2,277.7	2,268.4	6.7	6.9	-34.85	217.3	48.1	144.8	132.0	12.77	11.337		
2,375.0	2,367.9	2,352.3	2,340.8	7.0	7.2	-32.06	229.1	61.8	147.2	133.9	13.26	11.099		
2,400.0	2,392.6	2,377.2	2,365.0	7.0	7.2	-31.14	233.1	66.3	148.0	134.6	13.43	11.025		

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #804H - OWB - PWP1														Offset Site Error: 0.0 usft	
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9292-r.5 MWD+IFR1+MS						Rule Assigned:				Offset Well Error: 3.0 usft			
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance								Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
2,470.0	2,461.7	2,446.8	2,432.5	7.3	7.5	-28.65	244.1	79.1	150.7	136.8	13.92	10.827			
2,500.0	2,491.4	2,476.7	2,461.5	7.4	7.6	-27.61	248.8	84.6	151.9	137.8	14.13	10.748			
2,565.0	2,555.6	2,541.3	2,524.2	7.6	7.8	-25.41	259.0	96.4	154.7	140.1	14.62	10.585			
2,600.0	2,590.1	2,576.2	2,558.0	7.7	7.9	-24.25	264.5	102.8	156.3	141.5	14.88	10.504			
2,660.0	2,649.4	2,635.9	2,616.0	7.9	8.1	-22.34	274.0	113.7	159.2	143.9	15.35	10.372			
2,700.0	2,688.9	2,675.7	2,654.6	8.1	8.3	-21.10	280.3	121.0	161.3	145.6	15.67	10.292			
2,755.0	2,743.2	2,730.4	2,707.7	8.2	8.5	-19.44	288.9	131.0	164.2	148.1	16.12	10.188			
2,800.0	2,787.7	2,775.1	2,751.1	8.4	8.7	-18.13	296.0	139.2	166.7	150.2	16.49	10.110			
2,850.0	2,837.1	2,824.9	2,799.4	8.6	8.9	-16.72	303.9	148.3	169.5	152.6	16.90	10.029			
2,900.0	2,886.5	2,874.6	2,847.6	8.8	9.1	-15.36	311.8	157.4	172.5	155.2	17.32	9.956			
2,945.0	2,930.9	2,919.4	2,891.1	8.9	9.2	-14.17	318.8	165.6	175.2	157.5	17.71	9.895			
3,000.0	2,985.2	2,974.1	2,944.2	9.2	9.5	-12.77	327.5	175.6	178.7	160.5	18.18	9.828			
3,040.0	3,024.7	3,013.9	2,982.8	9.3	9.6	-11.79	333.8	182.9	181.2	162.7	18.53	9.783			
3,100.0	3,084.0	3,073.6	3,040.7	9.5	9.9	-10.36	343.2	193.9	185.2	166.2	19.05	9.722			
3,135.0	3,118.6	3,108.4	3,074.5	9.7	10.0	-9.56	348.7	200.2	187.6	168.2	19.36	9.690			
3,200.0	3,182.8	3,173.1	3,137.2	9.9	10.3	-8.12	359.0	212.1	192.0	172.1	19.93	9.637			
3,230.0	3,212.4	3,203.0	3,166.2	10.0	10.4	-7.48	363.7	217.5	194.1	174.0	20.19	9.615			
3,300.0	3,281.5	3,272.6	3,233.8	10.3	10.7	-6.03	374.7	230.3	199.1	178.3	20.81	9.569			
3,325.0	3,306.2	3,297.5	3,257.9	10.4	10.8	-5.53	378.7	234.9	201.0	179.9	21.03	9.554			
3,400.0	3,380.3	3,372.1	3,330.3	10.7	11.1	-4.09	390.5	248.5	206.5	184.8	21.70	9.516			
3,420.0	3,400.0	3,392.0	3,349.6	10.8	11.2	-3.72	393.6	252.2	208.0	186.1	21.88	9.507			
3,500.0	3,479.1	3,471.6	3,426.9	11.1	11.6	-2.28	406.2	266.7	214.1	191.5	22.59	9.476			
3,515.0	3,493.9	3,486.5	3,441.3	11.2	11.6	-2.02	408.6	269.5	215.2	192.5	22.72	9.472			
3,600.0	3,577.8	3,571.1	3,523.4	11.5	12.0	-0.60	421.9	285.0	221.9	198.4	23.48	9.448			
3,610.0	3,587.7	3,581.0	3,533.0	11.5	12.0	-0.44	423.5	286.8	222.6	199.1	23.57	9.446			
3,700.0	3,676.6	3,670.6	3,619.9	11.9	12.4	0.96	437.7	303.2	229.8	205.4	24.37	9.429			
3,705.0	3,681.5	3,675.5	3,624.7	11.9	12.5	1.04	438.5	304.1	230.2	205.8	24.42	9.428			
3,800.0	3,775.4	3,770.1	3,716.5	12.3	12.9	2.43	453.4	321.4	237.9	212.7	25.26	9.418			
3,895.0	3,869.2	3,864.6	3,808.2	12.7	13.3	3.72	468.4	338.7	245.8	219.7	26.11	9.414			
3,900.0	3,874.1	3,869.6	3,813.0	12.7	13.3	3.79	469.2	339.6	246.2	220.0	26.15	9.414			
3,990.0	3,963.0	3,959.1	3,899.9	13.1	13.7	4.94	483.3	356.0	253.7	226.8	26.95	9.416			
4,000.0	3,972.9	3,969.0	3,909.5	13.1	13.8	5.07	484.9	357.8	254.6	227.5	27.04	9.416			
4,085.0	4,056.9	4,053.6	3,991.6	13.5	14.2	6.09	498.3	373.3	261.8	234.0	27.79	9.421			
4,100.0	4,071.7	4,068.5	4,006.1	13.6	14.2	6.26	500.6	376.1	263.1	235.2	27.92	9.423			
4,180.0	4,150.7	4,148.1	4,083.3	13.9	14.6	7.16	513.2	390.6	270.0	241.3	28.63	9.431			
4,200.0	4,170.4	4,168.0	4,102.6	14.0	14.7	7.38	516.4	394.3	271.7	242.9	28.80	9.433			
4,210.2	4,180.5	4,178.2	4,112.4	14.0	14.7	7.49	518.0	396.1	272.6	243.7	28.89	9.436			
4,275.0	4,244.6	4,242.6	4,175.0	14.3	15.0	8.17	528.2	407.9	278.6	249.1	29.45	9.460			
4,300.0	4,269.3	4,267.5	4,199.1	14.4	15.1	8.42	532.1	412.5	281.1	251.4	29.67	9.475			
4,370.0	4,338.7	4,337.0	4,266.5	14.7	15.5	9.08	543.1	425.2	288.7	258.5	30.27	9.539			
4,400.0	4,368.4	4,366.7	4,295.4	14.8	15.6	9.35	547.8	430.7	292.3	261.8	30.53	9.574			
4,465.0	4,433.0	4,431.2	4,357.9	15.0	15.9	9.88	558.0	442.5	300.5	269.4	31.08	9.669			
4,500.0	4,467.8	4,465.8	4,391.5	15.2	16.1	10.15	563.5	448.8	305.2	273.9	31.38	9.729			
4,560.0	4,527.5	4,525.1	4,449.1	15.4	16.3	10.57	572.9	459.7	313.9	282.0	31.88	9.846			
4,600.0	4,567.3	4,564.7	4,487.4	15.6	16.5	10.84	579.1	466.9	320.0	287.7	32.21	9.933			
4,655.0	4,622.1	4,618.9	4,540.1	15.8	16.8	11.16	587.7	476.8	328.8	296.1	32.66	10.067			
4,700.0	4,667.0	4,663.2	4,583.1	15.9	17.0	11.41	594.7	484.9	336.4	303.4	33.03	10.185			
4,750.0	4,716.9	4,712.4	4,630.8	16.1	17.2	11.66	602.5	494.0	345.3	311.8	33.43	10.329			
4,800.0	4,766.8	4,762.4	4,679.3	16.3	17.4	11.88	610.4	503.1	354.5	320.7	33.82	10.482			
4,845.0	4,811.7	4,812.9	4,728.5	16.4	17.6	12.08	618.0	511.9	362.8	328.5	34.22	10.600			
4,900.0	4,866.7	4,875.1	4,789.2	16.6	17.9	12.28	626.6	521.9	372.2	337.5	34.72	10.720			

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #804H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9292-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
4,940.0	4,906.6	4,920.5	4,833.7	16.7	18.2	12.40	632.4	528.6	378.7	343.6	35.06	10.801	
5,000.0	4,966.6	4,989.0	4,901.2	16.9	18.5	12.55	640.2	537.6	387.7	352.1	35.55	10.906	
5,035.0	5,001.6	5,029.1	4,940.8	17.0	18.7	12.62	644.3	542.3	392.6	356.8	35.80	10.967	
5,100.0	5,066.6	5,103.9	5,014.9	17.1	19.0	12.72	650.9	550.0	400.9	364.7	36.24	11.062	
5,110.4	5,077.0	5,115.9	5,026.8	17.1	19.0	47.02	651.8	551.1	402.1	365.9	36.29	11.081	
5,130.0	5,096.6	5,138.6	5,049.3	17.1	19.1	47.04	653.5	553.0	404.4	368.0	36.38	11.115	
5,200.0	5,166.6	5,219.8	5,130.2	17.2	19.5	47.08	658.6	558.9	411.1	374.5	36.68	11.208	
5,225.0	5,191.6	5,248.9	5,159.2	17.2	19.6	47.09	660.1	560.6	413.1	376.3	36.78	11.232	
5,300.0	5,266.6	5,336.5	5,246.6	17.2	19.9	47.11	663.4	564.4	417.3	380.3	37.02	11.272	
5,320.0	5,286.6	5,359.8	5,270.0	17.2	20.0	47.12	663.9	565.1	418.1	381.0	37.08	11.276	
5,400.0	5,366.6	5,453.5	5,363.7	17.3	20.2	47.13	665.0	566.3	419.5	382.3	37.17	11.285	
5,415.0	5,381.6	5,468.9	5,379.0	17.3	20.2	47.13	665.0	566.3	419.5	382.3	37.18	11.282	
5,500.0	5,466.6	5,553.9	5,464.0	17.3	20.2	47.13	665.0	566.3	419.5	382.2	37.26	11.259	
5,510.0	5,476.6	5,563.9	5,474.0	17.4	20.2	47.13	665.0	566.3	419.5	382.2	37.27	11.256	
5,600.0	5,566.6	5,653.9	5,564.0	17.4	20.3	47.13	665.0	566.3	419.5	382.1	37.36	11.228	
5,605.0	5,571.6	5,658.9	5,569.0	17.4	20.3	47.13	665.0	566.3	419.5	382.1	37.36	11.227	
5,700.0	5,666.6	5,753.9	5,664.0	17.5	20.3	47.13	665.0	566.3	419.5	382.0	37.46	11.198	
5,795.0	5,761.6	5,848.9	5,759.0	17.5	20.4	47.13	665.0	566.3	419.5	381.9	37.55	11.170	
5,800.0	5,766.6	5,853.9	5,764.0	17.5	20.4	47.13	665.0	566.3	419.5	381.9	37.56	11.168	
5,890.0	5,856.6	5,943.9	5,854.0	17.6	20.4	47.13	665.0	566.3	419.5	381.8	37.65	11.141	
5,900.0	5,866.6	5,953.9	5,864.0	17.6	20.4	47.13	665.0	566.3	419.5	381.8	37.66	11.138	
5,985.0	5,951.6	6,038.9	5,949.0	17.6	20.5	47.13	665.0	566.3	419.5	381.7	37.75	11.113	
6,000.0	5,966.6	6,053.9	5,964.0	17.6	20.5	47.13	665.0	566.3	419.5	381.7	37.76	11.108	
6,080.0	6,046.6	6,133.9	6,044.0	17.7	20.5	47.13	665.0	566.3	419.5	381.6	37.84	11.085	
6,100.0	6,066.6	6,153.9	6,064.0	17.7	20.5	47.13	665.0	566.3	419.5	381.6	37.86	11.079	
6,175.0	6,141.6	6,228.9	6,139.0	17.7	20.5	47.13	665.0	566.3	419.5	381.5	37.94	11.056	
6,200.0	6,166.6	6,253.9	6,164.0	17.7	20.5	47.13	665.0	566.3	419.5	381.5	37.96	11.049	
6,270.0	6,236.6	6,323.9	6,234.0	17.8	20.6	47.13	665.0	566.3	419.5	381.4	38.04	11.028	
6,300.0	6,266.6	6,353.9	6,264.0	17.8	20.6	47.13	665.0	566.3	419.5	381.4	38.07	11.019	
6,365.0	6,331.6	6,418.9	6,329.0	17.8	20.6	47.13	665.0	566.3	419.5	381.3	38.13	11.000	
6,400.0	6,366.6	6,453.9	6,364.0	17.8	20.6	47.13	665.0	566.3	419.5	381.3	38.17	10.989	
6,460.0	6,426.6	6,513.9	6,424.0	17.9	20.7	47.13	665.0	566.3	419.5	381.2	38.23	10.971	
6,500.0	6,466.6	6,553.9	6,464.0	17.9	20.7	47.13	665.0	566.3	419.5	381.2	38.27	10.959	
6,555.0	6,521.6	6,608.9	6,519.0	17.9	20.7	47.13	665.0	566.3	419.5	381.1	38.33	10.943	
6,600.0	6,566.6	6,653.9	6,564.0	18.0	20.7	47.13	665.0	566.3	419.5	381.1	38.38	10.930	
6,650.0	6,616.6	6,703.9	6,614.0	18.0	20.8	47.13	665.0	566.3	419.5	381.0	38.43	10.915	
6,700.0	6,666.6	6,753.9	6,664.0	18.0	20.8	47.13	665.0	566.3	419.5	381.0	38.48	10.900	
6,745.0	6,711.6	6,798.9	6,709.0	18.0	20.8	47.13	665.0	566.3	419.5	380.9	38.53	10.887	
6,800.0	6,766.6	6,853.9	6,764.0	18.1	20.8	47.13	665.0	566.3	419.5	380.9	38.59	10.870	
6,840.0	6,806.6	6,893.9	6,804.0	18.1	20.8	47.13	665.0	566.3	419.5	380.8	38.63	10.859	
6,900.0	6,866.6	6,953.9	6,864.0	18.1	20.9	47.13	665.0	566.3	419.5	380.8	38.69	10.841	
6,935.0	6,901.6	6,988.9	6,899.0	18.2	20.9	47.13	665.0	566.3	419.5	380.7	38.73	10.830	
7,000.0	6,966.6	7,053.9	6,964.0	18.2	20.9	47.13	665.0	566.3	419.5	380.7	38.80	10.811	
7,030.0	6,996.6	7,083.9	6,994.0	18.2	20.9	47.13	665.0	566.3	419.5	380.6	38.83	10.802	
7,100.0	7,066.6	7,153.9	7,064.0	18.2	21.0	47.13	665.0	566.3	419.5	380.6	38.90	10.782	
7,125.0	7,091.6	7,178.9	7,089.0	18.3	21.0	47.13	665.0	566.3	419.5	380.5	38.93	10.774	
7,200.0	7,166.6	7,253.9	7,164.0	18.3	21.0	47.13	665.0	566.3	419.5	380.5	39.01	10.752	
7,220.0	7,186.6	7,273.9	7,184.0	18.3	21.0	47.13	665.0	566.3	419.5	380.4	39.03	10.747	
7,300.0	7,266.6	7,353.9	7,264.0	18.4	21.1	47.13	665.0	566.3	419.5	380.3	39.12	10.723	
7,315.0	7,281.6	7,368.9	7,279.0	18.4	21.1	47.13	665.0	566.3	419.5	380.3	39.13	10.719	
7,400.0	7,366.6	7,453.9	7,364.0	18.4	21.1	47.13	665.0	566.3	419.5	380.2	39.22	10.694	

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 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	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Distance		Minimum Separation	Separation Factor
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	(usft)	
7,410.0	7,376.6	7,463.9	7,374.0	18.4	21.1	47.13	665.0	566.3	419.5	380.2	39.24	10.691
7,500.0	7,466.6	7,553.9	7,464.0	18.5	21.2	47.13	665.0	566.3	419.5	380.1	39.33	10.665
7,505.0	7,471.6	7,558.9	7,469.0	18.5	21.2	47.13	665.0	566.3	419.5	380.1	39.34	10.663
7,600.0	7,566.6	7,653.9	7,564.0	18.5	21.2	47.13	665.0	566.3	419.5	380.0	39.44	10.635
7,695.0	7,661.6	7,748.9	7,659.0	18.6	21.3	47.13	665.0	566.3	419.5	379.9	39.54	10.608
7,700.0	7,666.6	7,753.9	7,664.0	18.6	21.3	47.13	665.0	566.3	419.5	379.9	39.55	10.606
7,790.0	7,756.6	7,843.9	7,754.0	18.6	21.3	47.13	665.0	566.3	419.5	379.8	39.65	10.580
7,800.0	7,766.6	7,853.9	7,764.0	18.7	21.3	47.13	665.0	566.3	419.5	379.8	39.66	10.577
7,885.0	7,851.6	7,938.9	7,849.0	18.7	21.4	47.13	665.0	566.3	419.5	379.7	39.75	10.553
7,900.0	7,866.6	7,953.9	7,864.0	18.7	21.4	47.13	665.0	566.3	419.5	379.7	39.77	10.548
7,980.0	7,946.6	8,033.9	7,944.0	18.8	21.4	47.13	665.0	566.3	419.5	379.6	39.85	10.525
8,000.0	7,966.6	8,053.9	7,964.0	18.8	21.4	47.13	665.0	566.3	419.5	379.6	39.88	10.519
8,075.0	8,041.6	8,128.9	8,039.0	18.8	21.5	47.13	665.0	566.3	419.5	379.5	39.96	10.498
8,100.0	8,066.6	8,153.9	8,064.0	18.8	21.5	47.13	665.0	566.3	419.5	379.5	39.99	10.490
8,170.0	8,136.6	8,223.9	8,134.0	18.9	21.5	47.13	665.0	566.3	419.5	379.4	40.06	10.470
8,200.0	8,166.6	8,253.9	8,164.0	18.9	21.5	47.13	665.0	566.3	419.5	379.4	40.10	10.462
8,265.0	8,231.6	8,318.9	8,229.0	18.9	21.5	47.13	665.0	566.3	419.5	379.3	40.17	10.443
8,300.0	8,266.6	8,353.9	8,264.0	19.0	21.6	47.13	665.0	566.3	419.5	379.3	40.21	10.433
8,360.0	8,326.6	8,413.9	8,324.0	19.0	21.6	47.13	665.0	566.3	419.5	379.2	40.27	10.416
8,400.0	8,366.6	8,453.9	8,364.0	19.0	21.6	47.13	665.0	566.3	419.5	379.1	40.32	10.404
8,417.4	8,384.0	8,471.3	8,381.4	19.0	21.6	47.13	665.0	566.3	419.5	379.1	40.33	10.401
8,450.0	8,416.6	8,503.8	8,414.0	19.0	21.6	-133.43	665.0	566.3	420.1	379.7	40.36	10.410
8,455.0	8,421.6	8,508.8	8,419.0	19.0	21.6	-133.44	665.0	566.3	420.3	379.9	40.36	10.413
8,500.0	8,466.3	8,553.6	8,463.7	19.1	21.7	-133.67	665.0	566.3	423.6	383.1	40.44	10.475
8,550.0	8,515.4	8,602.7	8,512.8	19.1	21.7	-134.09	665.0	566.3	430.1	389.6	40.53	10.612
8,600.0	8,563.5	8,650.8	8,560.9	19.2	21.7	-134.64	665.0	566.3	439.8	399.1	40.63	10.824
8,645.0	8,605.7	8,692.9	8,603.1	19.2	21.7	-135.18	665.0	566.3	451.3	410.5	40.72	11.082
8,650.0	8,610.3	8,697.5	8,607.7	19.2	21.7	-135.25	665.0	566.3	452.7	412.0	40.73	11.115
8,700.0	8,655.3	8,742.5	8,652.7	19.3	21.8	-135.84	665.0	566.3	469.0	428.2	40.82	11.490
8,740.0	8,689.8	8,777.1	8,687.2	19.3	21.8	-136.25	665.0	566.3	484.5	443.6	40.87	11.854
8,750.0	8,698.3	8,785.5	8,695.7	19.3	21.8	-136.33	665.0	566.3	488.7	447.8	40.88	11.953
8,800.0	8,738.8	8,826.1	8,736.2	19.4	21.8	-136.64	665.0	566.3	511.9	470.9	40.93	12.506
8,835.0	8,765.6	8,852.9	8,763.0	19.4	21.8	-136.70	665.0	566.3	530.1	489.2	40.94	12.947
8,850.0	8,776.7	8,863.9	8,774.1	19.5	21.8	-136.67	665.0	566.3	538.4	497.5	40.94	13.150
8,900.0	8,811.6	8,898.8	8,809.0	19.5	21.8	-136.33	665.0	566.3	568.3	527.4	40.93	13.883
8,930.0	8,830.9	8,918.2	8,828.3	19.5	21.9	-135.89	665.0	566.3	587.7	546.8	40.92	14.364
8,950.0	8,843.2	8,930.4	8,840.6	19.6	21.9	-135.49	665.0	566.3	601.3	560.4	40.90	14.702
9,000.0	8,871.3	8,958.5	8,868.7	19.6	21.9	-134.00	665.0	566.3	637.3	596.4	40.85	15.602
9,025.0	8,884.0	8,971.2	8,881.4	19.6	21.9	-132.96	665.0	566.3	656.3	615.5	40.81	16.081
9,050.0	8,895.7	8,983.0	8,893.1	19.7	21.9	-131.68	665.0	566.3	675.9	635.1	40.77	16.577
9,100.0	8,916.2	9,003.5	8,913.6	19.7	21.9	-128.25	665.0	566.3	716.9	676.2	40.69	17.619
9,120.0	8,923.3	9,010.6	8,920.7	19.7	21.9	-126.49	665.0	566.3	733.8	693.2	40.65	18.053
9,150.0	8,932.7	9,020.0	8,930.1	19.8	21.9	-123.33	665.0	566.3	759.9	719.3	40.59	18.720
9,200.0	8,945.0	9,032.3	8,942.4	19.8	21.9	-116.43	665.0	566.3	804.5	764.0	40.48	19.871
9,215.0	8,947.9	9,035.1	8,945.3	19.8	21.9	-113.89	665.0	566.3	818.1	777.7	40.45	20.225
9,250.0	8,953.0	9,040.3	8,950.4	19.8	21.9	-107.00	665.0	566.3	850.3	810.0	40.37	21.062
9,300.0	8,956.7	10,462.1	9,775.1	19.9	23.0	-159.62	-178.2	558.8	875.8	840.1	35.65	24.564
9,310.0	8,957.0	10,472.1	9,775.1	19.9	23.0	-159.62	-188.2	558.7	875.6	839.9	35.70	24.529
9,316.8	8,957.0	10,478.9	9,775.2	19.9	23.0	-159.62	-194.9	558.7	875.5	839.8	35.73	24.508
9,400.0	8,957.1	10,562.1	9,775.2	19.9	23.1	-159.62	-278.2	557.9	875.5	839.4	36.12	24.237
9,405.0	8,957.1	10,567.1	9,775.2	19.9	23.2	-159.62	-283.2	557.9	875.5	839.3	36.15	24.220

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 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)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
9,500.0	8,957.2	10,662.1	9,775.2	20.0	23.3	-159.62	-378.2	557.1	875.4	838.8	36.66	23.881			
9,595.0	8,957.3	10,757.1	9,775.3	20.1	23.5	-159.62	-473.2	556.2	875.4	838.2	37.22	23.518			
9,600.0	8,957.3	10,762.1	9,775.3	20.1	23.5	-159.62	-478.2	556.2	875.4	838.1	37.25	23.498			
9,690.0	8,957.4	10,852.1	9,775.3	20.1	23.6	-159.62	-568.2	555.4	875.3	837.5	37.84	23.134			
9,700.0	8,957.4	10,862.1	9,775.4	20.2	23.6	-159.62	-578.2	555.3	875.3	837.4	37.90	23.094			
9,785.0	8,957.5	10,947.1	9,775.4	20.2	23.8	-159.62	-663.2	554.5	875.3	836.8	38.50	22.735			
9,800.0	8,957.6	10,962.1	9,775.4	20.3	23.8	-159.62	-678.2	554.4	875.3	836.7	38.61	22.672			
9,880.0	8,957.6	11,042.1	9,775.4	20.4	24.0	-159.61	-758.2	553.7	875.2	836.0	39.21	22.323			
9,900.0	8,957.7	11,062.1	9,775.5	20.4	24.0	-159.61	-778.2	553.5	875.2	835.8	39.36	22.237			
9,975.0	8,957.8	11,137.1	9,775.5	20.5	24.2	-159.61	-853.1	552.8	875.2	835.2	39.96	21.903			
10,000.0	8,957.8	11,162.1	9,775.5	20.5	24.3	-159.61	-878.1	552.6	875.2	835.0	40.16	21.792			
10,070.0	8,957.9	11,232.1	9,775.5	20.6	24.4	-159.61	-948.1	552.0	875.1	834.4	40.75	21.477			
10,100.0	8,957.9	11,262.1	9,775.6	20.7	24.5	-159.61	-978.1	551.7	875.1	834.1	41.00	21.342			
10,165.0	8,958.0	11,327.1	9,775.6	20.8	24.7	-159.61	-1,043.1	551.2	875.1	833.5	41.58	21.047			
10,200.0	8,958.0	11,362.1	9,775.6	20.9	24.8	-159.61	-1,078.1	550.9	875.0	833.1	41.89	20.890			
10,260.0	8,958.1	11,422.1	9,775.6	21.0	25.0	-159.61	-1,138.1	550.3	875.0	832.6	42.44	20.617			
10,300.0	8,958.1	11,462.1	9,775.7	21.1	25.1	-159.61	-1,178.1	550.0	875.0	832.2	42.81	20.437			
10,355.0	8,958.2	11,517.1	9,775.7	21.2	25.2	-159.61	-1,233.1	549.5	874.9	831.6	43.34	20.188			
10,400.0	8,958.2	11,562.1	9,775.7	21.3	25.4	-159.61	-1,278.1	549.1	874.9	831.1	43.78	19.987			
10,450.0	8,958.3	11,612.1	9,775.7	21.4	25.5	-159.61	-1,328.1	548.6	874.9	830.6	44.27	19.763			
10,500.0	8,958.4	11,662.1	9,775.8	21.5	25.7	-159.61	-1,378.1	548.2	874.9	830.1	44.77	19.541			
10,545.0	8,958.4	11,707.1	9,775.8	21.7	25.9	-159.60	-1,423.1	547.8	874.8	829.6	45.23	19.342			
10,600.0	8,958.5	11,762.1	9,775.8	21.8	26.1	-159.60	-1,478.1	547.3	874.8	829.0	45.80	19.101			
10,640.0	8,958.5	11,802.1	9,775.8	22.0	26.2	-159.60	-1,518.1	547.0	874.8	828.6	46.22	18.927			
10,700.0	8,958.6	11,862.1	9,775.9	22.1	26.4	-159.60	-1,578.1	546.4	874.7	827.9	46.86	18.669			
10,735.0	8,958.6	11,897.1	9,775.9	22.3	26.5	-159.60	-1,613.1	546.1	874.7	827.5	47.23	18.519			
10,800.0	8,958.7	11,962.1	9,775.9	22.5	26.8	-159.60	-1,678.1	545.5	874.7	826.8	47.94	18.245			
10,830.0	8,958.7	11,992.1	9,775.9	22.6	26.9	-159.60	-1,708.1	545.3	874.7	826.4	48.27	18.120			
10,900.0	8,958.8	12,062.1	9,776.0	22.9	27.2	-159.60	-1,778.1	544.7	874.6	825.6	49.05	17.831			
10,925.0	8,958.8	12,087.1	9,776.0	23.0	27.3	-159.60	-1,803.1	544.4	874.6	825.3	49.33	17.728			
11,000.0	8,958.9	12,162.1	9,776.0	23.3	27.6	-159.60	-1,878.1	543.8	874.6	824.4	50.19	17.426			
11,020.0	8,958.9	12,182.1	9,776.0	23.4	27.7	-159.60	-1,898.1	543.6	874.6	824.1	50.42	17.346			
11,100.0	8,959.0	12,262.1	9,776.1	23.7	28.1	-159.60	-1,978.1	542.9	874.5	823.2	51.35	17.032			
11,115.0	8,959.1	12,277.1	9,776.1	23.8	28.1	-159.60	-1,993.1	542.7	874.5	823.0	51.52	16.974			
11,200.0	8,959.2	12,362.1	9,776.1	24.2	28.5	-159.60	-2,078.1	542.0	874.5	821.9	52.52	16.649			
11,210.0	8,959.2	12,372.1	9,776.1	24.2	28.6	-159.59	-2,088.1	541.9	874.5	821.8	52.64	16.611			
11,300.0	8,959.3	12,462.1	9,776.2	24.6	29.0	-159.59	-2,178.1	541.1	874.4	820.7	53.72	16.276			
11,305.0	8,959.3	12,467.1	9,776.2	24.7	29.0	-159.59	-2,183.1	541.1	874.4	820.6	53.78	16.258			
11,400.0	8,959.4	12,562.1	9,776.2	25.1	29.5	-159.59	-2,278.1	540.2	874.3	819.4	54.94	15.914			
11,495.0	8,959.5	12,657.1	9,776.3	25.6	29.9	-159.59	-2,373.1	539.4	874.3	818.2	56.11	15.581			
11,500.0	8,959.5	12,662.1	9,776.3	25.7	29.9	-159.59	-2,378.1	539.3	874.3	818.1	56.17	15.564			
11,590.0	8,959.6	12,752.1	9,776.4	26.2	30.4	-159.59	-2,468.1	538.5	874.2	816.9	57.30	15.257			
11,600.0	8,959.6	12,762.1	9,776.4	26.2	30.5	-159.59	-2,478.1	538.5	874.2	816.8	57.43	15.224			
11,685.0	8,959.7	12,847.1	9,776.4	26.7	30.9	-159.59	-2,563.1	537.7	874.2	815.7	58.50	14.943			
11,700.0	8,959.7	12,862.1	9,776.4	26.8	31.0	-159.59	-2,578.1	537.6	874.2	815.5	58.69	14.895			
11,780.0	8,959.8	12,942.1	9,776.5	27.2	31.4	-159.59	-2,658.1	536.9	874.1	814.4	59.71	14.639			
11,800.0	8,959.8	12,962.1	9,776.5	27.3	31.5	-159.59	-2,678.1	536.7	874.1	814.1	59.97	14.576			
11,875.0	8,959.9	13,037.1	9,776.5	27.8	31.9	-159.59	-2,753.1	536.0	874.1	813.1	60.94	14.344			
11,900.0	8,960.0	13,062.1	9,776.5	27.9	32.1	-159.58	-2,778.1	535.8	874.1	812.8	61.26	14.267			
11,970.0	8,960.0	13,132.1	9,776.6	28.3	32.5	-159.58	-2,848.1	535.2	874.0	811.8	62.18	14.057			
12,000.0	8,960.1	13,162.1	9,776.6	28.5	32.6	-159.58	-2,878.1	534.9	874.0	811.4	62.57	13.969			

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #804H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9292-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Rule Assigned:													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor
								+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)		Warning
12,065.0	8,960.1	13,227.1	9,776.6	28.9	33.0	-159.58	-2,943.1	534.3	874.0	810.5	63.42	13.780	
12,100.0	8,960.2	13,262.1	9,776.6	29.1	33.2	-159.58	-2,978.1	534.0	873.9	810.1	63.88	13.680	
12,160.0	8,960.2	13,322.1	9,776.7	29.5	33.5	-159.58	-3,038.1	533.5	873.9	809.2	64.68	13.511	
12,200.0	8,960.3	13,362.1	9,776.7	29.8	33.8	-159.58	-3,078.1	533.1	873.9	808.7	65.21	13.401	
12,255.0	8,960.4	13,417.1	9,776.7	30.1	34.1	-159.58	-3,133.1	532.6	873.9	807.9	65.95	13.251	
12,300.0	8,960.4	13,462.1	9,776.7	30.4	34.3	-159.58	-3,178.1	532.3	873.8	807.3	66.55	13.131	
12,350.0	8,960.5	13,512.1	9,776.8	30.7	34.6	-159.58	-3,228.1	531.8	873.8	806.6	67.22	12.999	
12,400.0	8,960.5	13,562.1	9,776.8	31.0	34.9	-159.58	-3,278.1	531.4	873.8	805.9	67.90	12.869	
12,445.0	8,960.6	13,607.1	9,776.8	31.3	35.2	-159.58	-3,323.1	531.0	873.8	805.2	68.51	12.754	
12,500.0	8,960.6	13,662.1	9,776.8	31.7	35.5	-159.58	-3,378.0	530.5	873.7	804.5	69.25	12.616	
12,540.0	8,960.7	13,702.1	9,776.9	31.9	35.8	-159.58	-3,418.0	530.1	873.7	803.9	69.80	12.517	
12,600.0	8,960.8	13,762.1	9,776.9	32.3	36.2	-159.57	-3,478.0	529.6	873.7	803.0	70.62	12.372	
12,635.0	8,960.8	13,797.1	9,776.9	32.5	36.4	-159.57	-3,513.0	529.3	873.6	802.5	71.10	12.288	
12,700.0	8,960.9	13,862.1	9,776.9	33.0	36.8	-159.57	-3,578.0	528.7	873.6	801.6	71.99	12.135	
12,730.0	8,960.9	13,892.1	9,777.0	33.2	37.0	-159.57	-3,608.0	528.4	873.6	801.2	72.41	12.065	
12,800.0	8,961.0	13,962.1	9,777.0	33.6	37.4	-159.57	-3,678.0	527.8	873.5	800.2	73.37	11.906	
12,825.0	8,961.0	13,987.1	9,777.0	33.8	37.5	-159.57	-3,703.0	527.6	873.5	799.8	73.72	11.849	
12,900.0	8,961.1	14,062.1	9,777.0	34.3	38.0	-159.57	-3,778.0	526.9	873.5	798.7	74.76	11.684	
12,920.0	8,961.1	14,082.1	9,777.1	34.4	38.1	-159.57	-3,798.0	526.8	873.5	798.4	75.04	11.640	
13,000.0	8,961.2	14,162.1	9,777.1	35.0	38.7	-159.57	-3,878.0	526.0	873.4	797.3	76.16	11.469	
13,015.0	8,961.2	14,177.1	9,777.1	35.1	38.7	-159.57	-3,893.0	525.9	873.4	797.1	76.37	11.437	
13,100.0	8,961.3	14,262.1	9,777.1	35.7	39.3	-159.57	-3,978.0	525.2	873.4	795.8	77.56	11.261	
13,110.0	8,961.3	14,272.1	9,777.2	35.7	39.4	-159.57	-3,988.0	525.1	873.4	795.7	77.70	11.241	
13,200.0	8,961.4	14,362.1	9,777.2	36.3	39.9	-159.57	-4,078.0	524.3	873.3	794.4	78.96	11.060	
13,205.0	8,961.4	14,367.1	9,777.2	36.4	40.0	-159.57	-4,083.0	524.2	873.3	794.3	79.03	11.050	
13,300.0	8,961.6	14,462.1	9,777.3	37.0	40.6	-159.56	-4,178.0	523.4	873.3	792.9	80.38	10.865	
13,395.0	8,961.7	14,557.1	9,777.3	37.7	41.2	-159.56	-4,273.0	522.5	873.2	791.5	81.72	10.685	
13,400.0	8,961.7	14,562.1	9,777.3	37.7	41.2	-159.56	-4,278.0	522.5	873.2	791.4	81.80	10.675	
13,490.0	8,961.8	14,652.1	9,777.4	38.3	41.8	-159.56	-4,368.0	521.7	873.2	790.1	83.08	10.510	
13,500.0	8,961.8	14,662.1	9,777.4	38.4	41.9	-159.56	-4,378.0	521.6	873.1	789.9	83.22	10.492	
13,585.0	8,961.9	14,747.1	9,777.4	39.0	42.5	-159.56	-4,463.0	520.9	873.1	788.7	84.43	10.341	
13,600.0	8,961.9	14,762.1	9,777.4	39.1	42.6	-159.56	-4,478.0	520.7	873.1	788.4	84.65	10.314	
13,680.0	8,962.0	14,842.1	9,777.5	39.7	43.1	-159.56	-4,558.0	520.0	873.0	787.2	85.79	10.176	
13,700.0	8,962.0	14,862.1	9,777.5	39.8	43.2	-159.56	-4,578.0	519.8	873.0	787.0	86.08	10.142	
13,775.0	8,962.1	14,937.1	9,777.5	40.3	43.7	-159.56	-4,653.0	519.2	873.0	785.8	87.16	10.016	
13,800.0	8,962.1	14,962.1	9,777.5	40.5	43.9	-159.56	-4,678.0	519.0	873.0	785.5	87.52	9.975	
13,870.0	8,962.2	15,032.1	9,777.6	41.0	44.4	-159.56	-4,748.0	518.3	872.9	784.4	88.53	9.861	
13,900.0	8,962.2	15,062.1	9,777.6	41.2	44.6	-159.56	-4,778.0	518.1	872.9	784.0	88.96	9.812	
13,965.0	8,962.3	15,127.1	9,777.6	41.7	45.0	-159.55	-4,843.0	517.5	872.9	783.0	89.90	9.709	
14,000.0	8,962.4	15,162.1	9,777.6	41.9	45.3	-159.55	-4,878.0	517.2	872.9	782.5	90.41	9.655	
14,060.0	8,962.4	15,222.1	9,777.7	42.3	45.7	-159.55	-4,938.0	516.7	872.8	781.5	91.28	9.562	
14,100.0	8,962.5	15,262.1	9,777.7	42.6	45.9	-159.55	-4,978.0	516.3	872.8	780.9	91.86	9.502	
14,155.0	8,962.5	15,317.1	9,777.7	43.0	46.3	-159.55	-5,033.0	515.8	872.8	780.1	92.66	9.420	
14,200.0	8,962.6	15,362.1	9,777.7	43.3	46.6	-159.55	-5,078.0	515.4	872.7	779.4	93.31	9.353	
14,250.0	8,962.6	15,412.1	9,777.8	43.7	47.0	-159.55	-5,128.0	515.0	872.7	778.7	94.04	9.280	
14,300.0	8,962.7	15,462.1	9,777.8	44.0	47.3	-159.55	-5,178.0	514.5	872.7	777.9	94.77	9.209	
14,345.0	8,962.7	15,507.1	9,777.8	44.4	47.6	-159.55	-5,223.0	514.1	872.7	777.2	95.42	9.145	
14,400.0	8,962.8	15,562.1	9,777.8	44.8	48.0	-159.55	-5,278.0	513.6	872.6	776.4	96.23	9.068	
14,440.0	8,962.9	15,602.1	9,777.9	45.0	48.3	-159.55	-5,318.0	513.3	872.6	775.8	96.81	9.013	
14,500.0	8,962.9	15,662.1	9,777.9	45.5	48.7	-159.55	-5,378.0	512.8	872.6	774.9	97.69	8.932	
14,535.0	8,963.0	15,697.1	9,777.9	45.7	48.9	-159.55	-5,413.0	512.4	872.6	774.3	98.20	8.885	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 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		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			
14,600.0	8,963.0	15,762.1	9,777.9	46.2	49.4	-159.55	-5,478.0	511.9	872.5	773.4	99.16	8.799			
14,630.0	8,963.1	15,792.1	9,778.0	46.4	49.6	-159.54	-5,508.0	511.6	872.5	772.9	99.60	8.760			
14,700.0	8,963.2	15,862.1	9,778.0	46.9	50.1	-159.54	-5,578.0	511.0	872.5	771.8	100.63	8.670			
14,725.0	8,963.2	15,887.1	9,778.0	47.1	50.2	-159.54	-5,603.0	510.8	872.4	771.4	100.99	8.639			
14,800.0	8,963.3	15,962.1	9,778.0	47.6	50.8	-159.54	-5,678.0	510.1	872.4	770.3	102.10	8.545			
14,820.0	8,963.3	15,982.1	9,778.1	47.8	50.9	-159.54	-5,698.0	509.9	872.4	770.0	102.39	8.520			
14,900.0	8,963.4	16,062.1	9,778.1	48.4	51.5	-159.54	-5,778.0	509.2	872.3	768.8	103.57	8.422			
14,915.0	8,963.4	16,077.1	9,778.1	48.5	51.6	-159.54	-5,793.0	509.1	872.3	768.5	103.80	8.404			
15,000.0	8,963.5	16,162.1	9,778.1	49.1	52.2	-159.54	-5,878.0	508.3	872.3	767.2	105.05	8.303			
15,010.0	8,963.5	16,172.1	9,778.2	49.1	52.2	-159.54	-5,887.9	508.2	872.3	767.1	105.20	8.292			
15,100.0	8,963.6	16,262.1	9,778.2	49.8	52.9	-159.54	-5,977.9	507.4	872.2	765.7	106.53	8.188			
15,105.0	8,963.6	16,267.1	9,778.2	49.8	52.9	-159.54	-5,982.9	507.4	872.2	765.6	106.61	8.182			
15,200.0	8,963.7	16,362.1	9,778.3	50.5	53.6	-159.54	-6,077.9	506.6	872.2	764.2	108.01	8.075			
15,295.0	8,963.8	16,457.1	9,778.3	51.2	54.2	-159.53	-6,172.9	505.7	872.1	762.7	109.42	7.970			
15,300.0	8,963.8	16,462.1	9,778.3	51.3	54.3	-159.53	-6,177.9	505.7	872.1	762.6	109.50	7.965			
15,390.0	8,963.9	16,552.1	9,778.4	51.9	54.9	-159.53	-6,267.9	504.9	872.1	761.2	110.84	7.868			
15,400.0	8,963.9	16,562.1	9,778.4	52.0	55.0	-159.53	-6,277.9	504.8	872.1	761.1	110.99	7.857			
15,485.0	8,964.0	16,647.1	9,778.4	52.6	55.6	-159.53	-6,362.9	504.0	872.0	759.8	112.25	7.768			
15,500.0	8,964.1	16,662.1	9,778.4	52.7	55.7	-159.53	-6,377.9	503.9	872.0	759.5	112.47	7.753			
15,580.0	8,964.2	16,742.1	9,778.5	53.3	56.3	-159.53	-6,457.9	503.2	872.0	758.3	113.67	7.671			
15,600.0	8,964.2	16,762.1	9,778.5	53.4	56.4	-159.53	-6,477.9	503.0	871.9	758.0	113.96	7.651			
15,675.0	8,964.3	16,837.1	9,778.5	54.0	57.0	-159.53	-6,552.9	502.3	871.9	756.8	115.08	7.576			
15,700.0	8,964.3	16,862.1	9,778.5	54.2	57.1	-159.53	-6,577.9	502.1	871.9	756.4	115.46	7.552			
15,770.0	8,964.4	16,932.1	9,778.6	54.7	57.6	-159.53	-6,647.9	501.5	871.8	755.3	116.50	7.483			
15,800.0	8,964.4	16,962.1	9,778.6	54.9	57.8	-159.53	-6,677.9	501.2	871.8	754.9	116.95	7.455			
15,865.0	8,964.5	17,027.1	9,778.6	55.4	58.3	-159.53	-6,742.9	500.7	871.8	753.9	117.92	7.393			
15,900.0	8,964.5	17,062.1	9,778.6	55.6	58.6	-159.53	-6,777.9	500.4	871.8	753.3	118.45	7.360			
15,960.0	8,964.6	17,122.1	9,778.7	56.1	59.0	-159.53	-6,837.9	499.8	871.7	752.4	119.35	7.304			
16,000.0	8,964.6	17,162.1	9,778.7	56.4	59.3	-159.52	-6,877.9	499.5	871.7	751.8	119.95	7.268			
16,055.0	8,964.7	17,217.1	9,778.7	56.8	59.7	-159.52	-6,932.9	499.0	871.7	750.9	120.77	7.218			
16,100.0	8,964.7	17,262.1	9,778.7	57.1	60.0	-159.52	-6,977.9	498.6	871.7	750.2	121.45	7.177			
16,150.0	8,964.8	17,312.1	9,778.8	57.5	60.4	-159.52	-7,027.9	498.1	871.6	749.4	122.20	7.133			
16,200.0	8,964.9	17,362.1	9,778.8	57.8	60.7	-159.52	-7,077.9	497.7	871.6	748.7	122.95	7.089			
16,245.0	8,964.9	17,407.1	9,778.8	58.2	61.0	-159.52	-7,122.9	497.3	871.6	748.0	123.62	7.050			
16,300.0	8,965.0	17,462.1	9,778.8	58.6	61.4	-159.52	-7,177.9	496.8	871.5	747.1	124.45	7.003			
16,340.0	8,965.0	17,502.1	9,778.9	58.9	61.7	-159.52	-7,217.9	496.5	871.5	746.5	125.05	6.969			
16,400.0	8,965.1	17,562.1	9,778.9	59.3	62.2	-159.52	-7,277.9	495.9	871.5	745.5	125.95	6.919			
16,435.0	8,965.1	17,597.1	9,778.9	59.6	62.4	-159.52	-7,312.9	495.6	871.5	745.0	126.48	6.890			
16,500.0	8,965.2	17,662.1	9,778.9	60.1	62.9	-159.52	-7,377.9	495.0	871.4	744.0	127.46	6.837			
16,530.0	8,965.2	17,692.1	9,779.0	60.3	63.1	-159.52	-7,407.9	494.8	871.4	743.5	127.91	6.813			
16,600.0	8,965.3	17,762.1	9,779.0	60.8	63.6	-159.52	-7,477.9	494.2	871.4	742.4	128.97	6.757			
16,625.0	8,965.3	17,787.1	9,779.0	61.0	63.8	-159.52	-7,502.9	493.9	871.4	742.0	129.34	6.737			
16,700.0	8,965.4	17,862.1	9,779.0	61.5	64.3	-159.51	-7,577.9	493.3	871.3	740.8	130.48	6.678			
16,720.0	8,965.5	17,882.1	9,779.1	61.7	64.5	-159.51	-7,597.9	493.1	871.3	740.5	130.78	6.662			
16,800.0	8,965.5	17,962.1	9,779.1	62.3	65.1	-159.51	-7,677.9	492.4	871.3	739.3	131.99	6.601			
16,815.0	8,965.6	17,977.1	9,779.1	62.4	65.2	-159.51	-7,692.9	492.2	871.2	739.0	132.21	6.590			
16,900.0	8,965.7	18,062.1	9,779.2	63.0	65.8	-159.51	-7,777.9	491.5	871.2	737.7	133.50	6.526			
16,910.0	8,965.7	18,072.1	9,779.2	63.1	65.9	-159.51	-7,787.9	491.4	871.2	737.5	133.65	6.519			
17,000.0	8,965.8	18,162.1	9,779.2	63.8	66.5	-159.51	-7,877.9	490.6	871.1	736.1	135.01	6.453			
17,005.0	8,965.8	18,167.1	9,779.2	63.8	66.6	-159.51	-7,882.9	490.6	871.1	736.1	135.08	6.449			
17,100.0	8,965.9	18,262.1	9,779.3	64.5	67.2	-159.51	-7,977.9	489.7	871.1	734.6	136.52	6.381			

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 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)	Factor
17,195.0	8,966.0	18,357.1	9,779.3	65.2	67.9	-159.51	-8,072.9	488.9	871.0	733.1	137.96	6.314
17,200.0	8,966.0	18,362.1	9,779.3	65.2	68.0	-159.51	-8,077.9	488.8	871.0	733.0	138.04	6.310
17,290.0	8,966.1	18,452.1	9,779.4	65.9	68.6	-159.51	-8,167.9	488.0	871.0	731.6	139.40	6.248
17,300.0	8,966.1	18,462.1	9,779.4	66.0	68.7	-159.51	-8,177.9	488.0	871.0	731.4	139.55	6.241
17,385.0	8,966.2	18,547.1	9,779.4	66.6	69.3	-159.50	-8,262.9	487.2	870.9	730.1	140.84	6.184
17,400.0	8,966.2	18,562.1	9,779.4	66.7	69.4	-159.50	-8,277.9	487.1	870.9	729.8	141.07	6.174
17,480.0	8,966.3	18,642.1	9,779.5	67.3	70.0	-159.50	-8,357.9	486.4	870.9	728.6	142.28	6.121
17,500.0	8,966.3	18,662.1	9,779.5	67.5	70.2	-159.50	-8,377.9	486.2	870.9	728.3	142.58	6.108
17,575.0	8,966.4	18,737.1	9,779.5	68.0	70.7	-159.50	-8,452.8	485.5	870.8	727.1	143.72	6.059
17,600.0	8,966.5	18,762.1	9,779.5	68.2	70.9	-159.50	-8,477.8	485.3	870.8	726.7	144.10	6.043
17,670.0	8,966.5	18,832.1	9,779.6	68.7	71.4	-159.50	-8,547.8	484.7	870.8	725.6	145.17	5.998
17,700.0	8,966.6	18,862.1	9,779.6	69.0	71.6	-159.50	-8,577.8	484.4	870.7	725.1	145.62	5.979
17,765.0	8,966.7	18,927.1	9,779.6	69.5	72.1	-159.50	-8,642.8	483.8	870.7	724.1	146.61	5.939
17,800.0	8,966.7	18,962.1	9,779.6	69.7	72.4	-159.50	-8,677.8	483.5	870.7	723.5	147.14	5.917
17,860.0	8,966.8	19,022.1	9,779.7	70.2	72.8	-159.50	-8,737.8	483.0	870.6	722.6	148.06	5.881
17,900.0	8,966.8	19,062.1	9,779.7	70.5	73.1	-159.50	-8,777.8	482.6	870.6	722.0	148.66	5.856
17,955.0	8,966.9	19,117.1	9,779.7	70.9	73.5	-159.50	-8,832.8	482.1	870.6	721.1	149.50	5.823
18,000.0	8,966.9	19,162.1	9,779.7	71.2	73.8	-159.50	-8,877.8	481.8	870.6	720.4	150.19	5.797
18,050.0	8,967.0	19,212.1	9,779.8	71.6	74.2	-159.49	-8,927.8	481.3	870.5	719.6	150.95	5.767
18,100.0	8,967.0	19,262.1	9,779.8	72.0	74.6	-159.49	-8,977.8	480.9	870.5	718.8	151.71	5.738
18,145.0	8,967.1	19,307.1	9,779.8	72.3	74.9	-159.49	-9,022.8	480.5	870.5	718.1	152.39	5.712
18,200.0	8,967.1	19,362.1	9,779.8	72.7	75.3	-159.49	-9,077.8	480.0	870.5	717.2	153.23	5.681
18,240.0	8,967.2	19,402.1	9,779.9	73.0	75.6	-159.49	-9,117.8	479.6	870.4	716.6	153.84	5.658
18,300.0	8,967.3	19,462.1	9,779.9	73.4	76.1	-159.49	-9,177.8	479.1	870.4	715.6	154.76	5.624
18,335.0	8,967.3	19,497.1	9,779.9	73.7	76.3	-159.49	-9,212.8	478.8	870.4	715.1	155.29	5.605
18,400.0	8,967.4	19,562.1	9,779.9	74.2	76.8	-159.49	-9,277.8	478.2	870.3	714.1	156.28	5.569
18,430.0	8,967.4	19,592.1	9,780.0	74.4	77.0	-159.49	-9,307.8	477.9	870.3	713.6	156.74	5.553
18,500.0	8,967.5	19,662.1	9,780.0	74.9	77.5	-159.49	-9,377.8	477.3	870.3	712.5	157.81	5.515
18,525.0	8,967.5	19,687.1	9,780.0	75.1	77.7	-159.49	-9,402.8	477.1	870.3	712.1	158.19	5.501
18,600.0	8,967.6	19,762.1	9,780.0	75.7	78.3	-159.49	-9,477.8	476.4	870.2	710.9	159.34	5.462
18,620.0	8,967.6	19,782.1	9,780.1	75.8	78.4	-159.49	-9,497.8	476.3	870.2	710.6	159.64	5.451
18,700.0	8,967.7	19,862.1	9,780.1	76.4	79.0	-159.48	-9,577.8	475.5	870.2	709.3	160.86	5.409
18,715.0	8,967.7	19,877.1	9,780.1	76.6	79.1	-159.48	-9,592.8	475.4	870.2	709.1	161.09	5.402
18,800.0	8,967.8	19,962.1	9,780.2	77.2	79.7	-159.48	-9,677.8	474.7	870.1	707.7	162.39	5.358
18,810.0	8,967.8	19,972.1	9,780.2	77.3	79.8	-159.48	-9,687.8	474.6	870.1	707.6	162.54	5.353
18,900.0	8,967.9	20,062.1	9,780.2	77.9	80.5	-159.48	-9,777.8	473.8	870.1	706.1	163.92	5.308
18,905.0	8,968.0	20,067.1	9,780.2	78.0	80.5	-159.48	-9,782.8	473.7	870.1	706.1	164.00	5.305
19,000.0	8,968.1	20,162.1	9,780.3	78.7	81.2	-159.48	-9,877.8	472.9	870.0	704.5	165.45	5.258
19,095.0	8,968.2	20,257.1	9,780.3	79.4	81.9	-159.48	-9,972.8	472.0	869.9	703.0	166.90	5.212
19,100.0	8,968.2	20,262.1	9,780.3	79.4	82.0	-159.48	-9,977.8	472.0	869.9	703.0	166.98	5.210
19,190.0	8,968.3	20,352.1	9,780.4	80.1	82.6	-159.48	-10,067.8	471.2	869.9	701.5	168.36	5.167
19,200.0	8,968.3	20,362.1	9,780.4	80.2	82.7	-159.48	-10,077.8	471.1	869.9	701.4	168.51	5.162
19,285.0	8,968.4	20,447.1	9,780.4	80.8	83.3	-159.48	-10,162.8	470.4	869.8	700.0	169.81	5.122
19,300.0	8,968.4	20,462.1	9,780.4	80.9	83.5	-159.48	-10,177.8	470.2	869.8	699.8	170.04	5.115
19,380.0	8,968.5	20,542.1	9,780.5	81.5	84.0	-159.47	-10,257.8	469.5	869.8	698.5	171.27	5.078
19,400.0	8,968.5	20,562.1	9,780.5	81.7	84.2	-159.47	-10,277.8	469.3	869.8	698.2	171.57	5.069
19,475.0	8,968.6	20,637.1	9,780.5	82.3	84.8	-159.47	-10,352.8	468.7	869.7	697.0	172.72	5.035
19,500.0	8,968.6	20,662.1	9,780.5	82.4	84.9	-159.47	-10,377.8	468.5	869.7	696.6	173.11	5.024
19,570.0	8,968.7	20,732.1	9,780.6	83.0	85.5	-159.47	-10,447.8	467.8	869.7	695.5	174.18	4.993
19,600.0	8,968.7	20,762.1	9,780.6	83.2	85.7	-159.47	-10,477.8	467.6	869.7	695.0	174.64	4.980
19,665.0	8,968.8	20,827.1	9,780.6	83.7	86.2	-159.47	-10,542.8	467.0	869.6	694.0	175.64	4.951

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 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 Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
19,700.0	8,968.9	20,862.1	9,780.6	83.9	86.4	-159.47	-10,577.8	466.7	869.6	693.4	176.17	4.936		
19,760.0	8,968.9	20,922.1	9,780.7	84.4	86.9	-159.47	-10,637.8	466.2	869.6	692.5	177.09	4.910		
19,800.0	8,969.0	20,962.1	9,780.7	84.7	87.2	-159.47	-10,677.8	465.8	869.5	691.8	177.71	4.893		
19,855.0	8,969.0	21,017.1	9,780.7	85.1	87.6	-159.47	-10,732.8	465.3	869.5	691.0	178.55	4.870		
19,900.0	8,969.1	21,062.1	9,780.7	85.5	87.9	-159.47	-10,777.8	464.9	869.5	690.2	179.24	4.851		
19,950.0	8,969.1	21,112.1	9,780.8	85.8	88.3	-159.47	-10,827.8	464.5	869.5	689.4	180.01	4.830		
20,000.0	8,969.2	21,162.1	9,780.8	86.2	88.7	-159.47	-10,877.8	464.0	869.4	688.6	180.78	4.809		
20,045.0	8,969.3	21,207.1	9,780.8	86.5	89.0	-159.46	-10,922.8	463.6	869.4	687.9	181.47	4.791		
20,100.0	8,969.3	21,262.1	9,780.8	87.0	89.4	-159.46	-10,977.7	463.1	869.4	687.1	182.31	4.769		
20,140.0	8,969.4	21,302.1	9,780.9	87.3	89.7	-159.46	-11,017.7	462.8	869.3	686.4	182.93	4.752		
20,200.0	8,969.4	21,362.1	9,780.9	87.7	90.2	-159.46	-11,077.7	462.3	869.3	685.5	183.85	4.728		
20,235.0	8,969.5	21,397.1	9,780.9	88.0	90.4	-159.46	-11,112.7	461.9	869.3	684.9	184.38	4.715		
20,300.0	8,969.5	21,462.1	9,780.9	88.5	90.9	-159.46	-11,177.7	461.4	869.3	683.9	185.38	4.689		
20,330.0	8,969.6	21,492.1	9,781.0	88.7	91.1	-159.46	-11,207.7	461.1	869.2	683.4	185.84	4.677		
20,400.0	8,969.7	21,562.1	9,781.0	89.2	91.6	-159.46	-11,277.7	460.5	869.2	682.3	186.92	4.650		
20,425.0	8,969.7	21,587.1	9,781.0	89.4	91.8	-159.46	-11,302.7	460.3	869.2	681.9	187.30	4.640		
20,500.0	8,969.8	21,662.1	9,781.0	90.0	92.4	-159.46	-11,377.7	459.6	869.1	680.7	188.46	4.612		
20,520.0	8,969.8	21,682.1	9,781.1	90.1	92.5	-159.46	-11,397.7	459.4	869.1	680.4	188.77	4.604		
20,600.0	8,969.9	21,762.1	9,781.1	90.7	93.1	-159.46	-11,477.7	458.7	869.1	679.1	190.00	4.574		
20,615.0	8,969.9	21,777.1	9,781.1	90.8	93.2	-159.46	-11,492.7	458.6	869.1	678.8	190.23	4.569		
20,700.0	8,970.0	21,862.1	9,781.2	91.5	93.9	-159.46	-11,577.7	457.8	869.0	677.5	191.53	4.537		
20,710.0	8,970.0	21,872.1	9,781.2	91.5	94.0	-159.45	-11,587.7	457.7	869.0	677.3	191.69	4.534		
20,800.0	8,970.1	21,962.1	9,781.2	92.2	94.6	-159.45	-11,677.7	456.9	869.0	675.9	193.07	4.501		
20,805.0	8,970.1	21,967.1	9,781.2	92.3	94.7	-159.45	-11,682.7	456.9	869.0	675.8	193.15	4.499		
20,900.0	8,970.2	22,062.1	9,781.3	93.0	95.4	-159.45	-11,777.7	456.1	868.9	674.3	194.61	4.465		
20,995.0	8,970.3	22,157.1	9,781.3	93.7	96.1	-159.45	-11,872.7	455.2	868.9	672.8	196.07	4.431		
21,000.0	8,970.3	22,162.1	9,781.3	93.7	96.1	-159.45	-11,877.7	455.2	868.9	672.7	196.15	4.430		
21,090.0	8,970.4	22,252.1	9,781.4	94.4	96.8	-159.45	-11,967.7	454.4	868.8	671.3	197.54	4.398		
21,100.0	8,970.5	22,262.1	9,781.4	94.5	96.9	-159.45	-11,977.7	454.3	868.8	671.1	197.69	4.395		
21,185.0	8,970.6	22,347.1	9,781.4	95.1	97.5	-159.45	-12,062.7	453.5	868.7	669.7	199.00	4.366		
21,200.0	8,970.6	22,362.1	9,781.4	95.2	97.6	-159.45	-12,077.7	453.4	868.7	669.5	199.23	4.360		
21,280.0	8,970.7	22,442.1	9,781.5	95.8	98.2	-159.45	-12,157.7	452.7	868.7	668.2	200.46	4.333		
21,300.0	8,970.7	22,462.1	9,781.5	96.0	98.4	-159.45	-12,177.7	452.5	868.7	667.9	200.77	4.327		
21,375.0	8,970.8	22,537.1	9,781.5	96.6	98.9	-159.45	-12,252.7	451.9	868.6	666.7	201.93	4.302		
21,400.0	8,970.8	22,562.1	9,781.5	96.8	99.1	-159.44	-12,277.7	451.6	868.6	666.3	202.31	4.293		
21,470.0	8,970.9	22,632.1	9,781.6	97.3	99.6	-159.44	-12,347.7	451.0	868.6	665.2	203.39	4.271		
21,500.0	8,970.9	22,662.1	9,781.6	97.5	99.9	-159.44	-12,377.7	450.7	868.6	664.7	203.85	4.261		
21,565.0	8,971.0	22,727.1	9,781.6	98.0	100.4	-159.44	-12,442.7	450.2	868.5	663.7	204.85	4.240		
21,600.0	8,971.0	22,762.1	9,781.6	98.3	100.6	-159.44	-12,477.7	449.9	868.5	663.1	205.39	4.229		
21,660.0	8,971.1	22,822.1	9,781.7	98.7	101.1	-159.44	-12,537.7	449.3	868.5	662.2	206.32	4.209		
21,700.0	8,971.1	22,862.1	9,781.7	99.0	101.4	-159.44	-12,577.7	449.0	868.5	661.5	206.94	4.197		
21,755.0	8,971.2	22,917.1	9,781.7	99.4	101.8	-159.44	-12,632.7	448.5	868.4	660.6	207.78	4.179		
21,800.0	8,971.3	22,962.1	9,781.7	99.8	102.1	-159.44	-12,677.7	448.1	868.4	659.9	208.48	4.165		
21,850.0	8,971.3	23,012.1	9,781.8	100.2	102.5	-159.44	-12,727.7	447.6	868.4	659.1	209.25	4.150		
21,900.0	8,971.4	23,062.1	9,781.8	100.5	102.9	-159.44	-12,777.7	447.2	868.3	658.3	210.02	4.135		
21,945.0	8,971.4	23,107.1	9,781.8	100.9	103.2	-159.44	-12,822.7	446.8	868.3	657.6	210.71	4.121		
22,000.0	8,971.5	23,162.1	9,781.8	101.3	103.6	-159.44	-12,877.7	446.3	868.3	656.7	211.56	4.104		
22,040.0	8,971.5	23,202.1	9,781.9	101.6	103.9	-159.44	-12,917.7	446.0	868.3	656.1	212.18	4.092		
22,100.0	8,971.6	23,262.1	9,781.9	102.0	104.4	-159.43	-12,977.7	445.4	868.2	655.1	213.11	4.074		
22,135.0	8,971.6	23,297.1	9,781.9	102.3	104.6	-159.43	-13,012.7	445.1	868.2	654.6	213.65	4.064		
22,200.0	8,971.7	23,362.1	9,781.9	102.8	105.1	-159.43	-13,077.7	444.5	868.2	653.5	214.65	4.045		

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #804H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9292-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Distance	Rule Assigned:									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
22,230.0	8,971.8	23,392.1	9,782.0	103.0	105.3	-159.43	-13,107.7	444.3	868.1	653.0	215.11	4.036	
22,300.0	8,971.8	23,462.1	9,782.0	103.6	105.9	-159.43	-13,177.7	443.7	868.1	651.9	216.19	4.015	
22,325.0	8,971.9	23,487.1	9,782.0	103.7	106.1	-159.43	-13,202.7	443.4	868.1	651.5	216.58	4.008	
22,400.0	8,971.9	23,562.1	9,782.1	104.3	106.6	-159.43	-13,277.7	442.8	868.0	650.3	217.74	3.987	
22,420.0	8,972.0	23,582.1	9,782.1	104.5	106.8	-159.43	-13,297.7	442.6	868.0	650.0	218.05	3.981	
22,500.0	8,972.1	23,662.1	9,782.1	105.1	107.4	-159.43	-13,377.7	441.9	868.0	648.7	219.28	3.958	
22,515.0	8,972.1	23,677.1	9,782.1	105.2	107.5	-159.43	-13,392.7	441.8	868.0	648.5	219.51	3.954	
22,600.0	8,972.2	23,762.1	9,782.2	105.8	108.1	-159.43	-13,477.6	441.0	867.9	647.1	220.82	3.930	
22,610.0	8,972.2	23,772.1	9,782.2	105.9	108.2	-159.43	-13,487.6	440.9	867.9	647.0	220.98	3.928	
22,700.0	8,972.3	23,862.1	9,782.2	106.6	108.9	-159.43	-13,577.6	440.1	867.9	645.5	222.37	3.903	
22,705.0	8,972.3	23,867.1	9,782.2	106.6	108.9	-159.43	-13,582.6	440.1	867.9	645.4	222.45	3.901	
22,800.0	8,972.4	23,962.1	9,782.3	107.3	109.6	-159.42	-13,677.6	439.2	867.8	643.9	223.91	3.876	
22,895.0	8,972.5	24,057.1	9,782.3	108.1	110.3	-159.42	-13,772.6	438.4	867.8	642.4	225.38	3.850	
22,900.0	8,972.5	24,062.1	9,782.3	108.1	110.4	-159.42	-13,777.6	438.3	867.8	642.3	225.46	3.849	
22,990.0	8,972.6	24,152.1	9,782.4	108.8	111.1	-159.42	-13,867.6	437.5	867.7	640.9	226.85	3.825	
23,000.0	8,972.6	24,162.1	9,782.4	108.8	111.1	-159.42	-13,877.6	437.5	867.7	640.7	227.01	3.822	
23,085.0	8,972.7	24,247.1	9,782.4	109.5	111.8	-159.42	-13,962.6	436.7	867.7	639.3	228.32	3.800	
23,100.0	8,972.7	24,262.1	9,782.4	109.6	111.9	-159.42	-13,977.6	436.6	867.6	639.1	228.55	3.796	
23,180.0	8,972.8	24,342.1	9,782.5	110.2	112.5	-159.42	-14,057.6	435.9	867.6	637.8	229.79	3.776	
23,200.0	8,972.9	24,362.1	9,782.5	110.4	112.6	-159.42	-14,077.6	435.7	867.6	637.5	230.10	3.771	
23,275.0	8,972.9	24,437.1	9,782.5	110.9	113.2	-159.42	-14,152.6	435.0	867.5	636.3	231.26	3.751	
23,300.0	8,973.0	24,462.1	9,782.5	111.1	113.4	-159.42	-14,177.6	434.8	867.5	635.9	231.64	3.745	
23,370.0	8,973.1	24,532.1	9,782.6	111.6	113.9	-159.42	-14,247.6	434.2	867.5	634.8	232.73	3.728	
23,400.0	8,973.1	24,562.1	9,782.6	111.9	114.1	-159.42	-14,277.6	433.9	867.5	634.3	233.19	3.720	
23,465.0	8,973.2	24,627.1	9,782.6	112.4	114.6	-159.41	-14,342.6	433.3	867.4	633.2	234.19	3.704	
23,500.0	8,973.2	24,662.1	9,782.6	112.6	114.9	-159.41	-14,377.6	433.0	867.4	632.7	234.74	3.695	
23,560.0	8,973.3	24,722.1	9,782.7	113.1	115.3	-159.41	-14,437.6	432.5	867.4	631.7	235.66	3.681	
23,600.0	8,973.3	24,762.1	9,782.7	113.4	115.6	-159.41	-14,477.6	432.1	867.4	631.1	236.28	3.671	
23,655.0	8,973.4	24,817.1	9,782.7	113.8	116.1	-159.41	-14,532.6	431.7	867.3	630.2	237.13	3.658	
23,700.0	8,973.4	24,862.1	9,782.7	114.1	116.4	-159.41	-14,577.6	431.3	867.3	629.5	237.83	3.647	
23,750.0	8,973.5	24,912.1	9,782.8	114.5	116.8	-159.41	-14,627.6	430.8	867.3	628.7	238.60	3.635	
23,800.0	8,973.5	24,962.1	9,782.8	114.9	117.2	-159.41	-14,677.6	430.4	867.2	627.9	239.38	3.623	
23,845.0	8,973.6	25,007.1	9,782.8	115.2	117.5	-159.41	-14,722.6	430.0	867.2	627.1	240.07	3.612	
23,900.0	8,973.7	25,062.1	9,782.8	115.7	117.9	-159.41	-14,777.6	429.5	867.2	626.3	240.92	3.599	
23,940.0	8,973.7	25,102.1	9,782.9	116.0	118.2	-159.41	-14,817.6	429.1	867.2	625.6	241.54	3.590	
24,000.0	8,973.8	25,162.1	9,782.9	116.4	118.7	-159.41	-14,877.6	428.6	867.1	624.7	242.47	3.576	
24,035.0	8,973.8	25,197.1	9,782.9	116.7	118.9	-159.41	-14,912.6	428.3	867.1	624.1	243.01	3.568	
24,067.0	8,973.9	25,229.1	9,782.9	116.9	119.2	-159.41	-14,944.6	428.0	867.1	623.6	243.51	3.561	
24,100.0	8,973.9	25,262.1	9,782.9	117.2	119.4	-159.40	-14,977.6	427.7	867.1	623.1	244.02	3.553	
24,130.0	8,973.9	25,292.1	9,783.0	117.4	119.6	-159.40	-15,007.6	427.4	867.1	622.6	244.48	3.547	
24,197.0	8,974.0	25,359.1	9,783.0	117.9	120.1	-159.40	-15,074.6	426.8	867.0	621.5	245.52	3.531	
24,197.5	8,974.0	25,359.2	9,783.0	117.9	120.1	-159.40	-15,074.6	426.8	867.0	621.5	245.52	3.531	
24,197.9	8,974.0	25,359.2	9,783.0	117.9	120.1	-159.40	-15,074.6	426.8	867.0	621.5	245.53	3.531 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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #805H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9240-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	-22.08	148.9	-60.4	160.7				
95.0	95.0	92.3	92.3	3.0	3.0	-22.08	148.9	-60.4	160.7	154.6	6.04	26.624	
100.0	100.0	97.3	97.3	3.0	3.0	-22.08	148.9	-60.4	160.7	154.6	6.04	26.603	
190.0	190.0	187.3	187.3	3.1	3.1	-22.08	148.9	-60.4	160.7	154.4	6.25	25.697	
200.0	200.0	197.3	197.3	3.1	3.1	-22.08	148.9	-60.4	160.7	154.4	6.29	25.556	
285.0	285.0	282.3	282.3	3.3	3.2	-22.08	148.9	-60.4	160.7	154.2	6.50	24.739	
300.0	300.0	297.3	297.3	3.3	3.3	-22.08	148.9	-60.4	160.7	154.1	6.54	24.582	
380.0	380.0	377.3	377.3	3.4	3.4	-22.08	148.9	-60.4	160.7	154.0	6.73	23.876	
400.0	400.0	397.3	397.3	3.4	3.4	-22.08	148.9	-60.4	160.7	153.9	6.78	23.692	
475.0	475.0	472.3	472.3	3.5	3.5	-22.08	148.9	-60.4	160.7	153.7	6.96	23.080	
500.0	500.0	497.3	497.3	3.5	3.5	-22.08	148.9	-60.4	160.7	153.7	7.03	22.873	
570.0	570.0	567.3	567.3	3.6	3.6	-22.08	148.9	-60.4	160.7	153.5	7.19	22.343	
600.0	600.0	597.3	597.3	3.6	3.6	-22.08	148.9	-60.4	160.7	153.4	7.27	22.115	
665.0	665.0	662.3	662.3	3.7	3.7	-22.08	148.9	-60.4	160.7	153.3	7.42	21.657	
700.0	700.0	697.3	697.3	3.8	3.8	-22.08	148.9	-60.4	160.7	153.2	7.50	21.412	
760.0	760.0	757.3	757.3	3.8	3.8	-22.08	148.9	-60.4	160.7	153.0	7.65	21.017	
800.0	800.0	797.3	797.3	3.9	3.9	-22.08	148.9	-60.4	160.7	152.9	7.74	20.756	
855.0	855.0	852.3	852.3	4.0	3.9	-22.08	148.9	-60.4	160.7	152.8	7.87	20.418	
900.0	900.0	897.3	897.3	4.0	4.0	-22.08	148.9	-60.4	160.7	152.7	7.98	20.144	
950.0	950.0	947.3	947.3	4.1	4.1	-22.08	148.9	-60.4	160.7	152.6	8.09	19.856	
1,000.0	1,000.0	997.3	997.3	4.1	4.1	-22.08	148.9	-60.4	160.7	152.5	8.21	19.571	
1,045.0	1,045.0	1,042.3	1,042.3	4.2	4.2	-22.08	148.9	-60.4	160.7	152.4	8.31	19.327	
1,100.0	1,100.0	1,097.3	1,097.3	4.2	4.2	-22.08	148.9	-60.4	160.7	152.2	8.44	19.032	
1,140.0	1,140.0	1,137.3	1,137.3	4.3	4.3	-22.08	148.9	-60.4	160.7	152.1	8.53	18.828	
1,200.0	1,200.0	1,197.3	1,197.3	4.4	4.4	-22.08	148.9	-60.4	160.7	152.0	8.67	18.525	
1,235.0	1,235.0	1,232.3	1,232.3	4.4	4.4	-22.08	148.9	-60.4	160.7	151.9	8.75	18.356	
1,300.0	1,300.0	1,297.3	1,297.3	4.5	4.5	-22.08	148.9	-60.4	160.7	151.8	8.90	18.047	
1,330.0	1,330.0	1,327.3	1,327.3	4.5	4.5	-22.08	148.9	-60.4	160.7	151.7	8.97	17.910	
1,400.0	1,400.0	1,397.3	1,397.3	4.6	4.6	-22.08	148.9	-60.4	160.7	151.6	9.13	17.595	
1,425.0	1,425.0	1,422.3	1,422.3	4.6	4.6	-22.08	148.9	-60.4	160.7	151.5	9.19	17.486	
1,500.0	1,500.0	1,497.3	1,497.3	4.7	4.7	-22.08	148.9	-60.4	160.7	151.3	9.36	17.166	
1,506.5	1,506.5	1,503.6	1,503.6	4.7	4.7	-56.38	148.9	-60.4	160.7	151.3	9.38	17.130 CC	
1,520.0	1,520.0	1,516.4	1,516.4	4.8	4.7	-56.40	148.9	-60.4	160.7	151.3	9.42	17.055 ES	
1,600.0	1,600.0	1,592.1	1,592.1	4.9	4.9	-56.90	150.2	-61.1	161.3	151.6	9.66	16.690	
1,615.0	1,615.0	1,606.3	1,606.3	4.9	4.9	-57.06	150.7	-61.3	161.5	151.8	9.72	16.609	
1,700.0	1,699.8	1,686.6	1,686.5	5.1	5.1	-58.44	154.3	-63.1	163.3	153.3	10.07	16.221	
1,710.0	1,709.8	1,696.1	1,695.9	5.2	5.2	-58.64	154.9	-63.4	163.6	153.5	10.11	16.184	
1,800.0	1,799.5	1,780.8	1,780.4	5.4	5.4	-60.89	161.2	-66.6	167.1	156.6	10.47	15.962	
1,805.0	1,804.4	1,785.5	1,785.1	5.4	5.4	-61.04	161.6	-66.8	167.4	156.9	10.49	15.955	
1,900.0	1,898.7	1,874.6	1,873.5	5.7	5.7	-64.11	170.7	-71.4	173.0	162.1	10.86	15.933	
1,950.1	1,948.2	1,921.3	1,919.8	5.8	5.8	-65.94	176.5	-74.4	176.8	165.8	11.00	16.077	
1,995.0	1,992.6	1,963.0	1,961.0	5.9	5.9	-67.66	182.2	-77.3	180.9	169.8	11.12	16.268	
2,000.0	1,997.5	1,967.7	1,965.6	5.9	5.9	-67.85	182.9	-77.6	181.5	170.3	11.14	16.293	
2,090.0	2,086.4	2,051.0	2,047.6	6.1	6.2	-70.93	196.0	-84.2	192.4	180.9	11.47	16.772	
2,100.0	2,096.3	2,060.2	2,056.7	6.1	6.3	-71.24	197.6	-85.1	193.8	182.3	11.51	16.840	
2,185.0	2,180.3	2,139.3	2,134.0	6.4	6.5	-73.67	212.3	-92.5	207.2	195.4	11.78	17.581	
2,200.0	2,195.1	2,154.0	2,148.4	6.4	6.5	-74.08	215.1	-93.9	209.7	197.9	11.84	17.717	
2,280.0	2,274.1	2,232.5	2,225.0	6.7	6.7	-76.12	230.3	-101.6	223.4	211.3	12.14	18.405	
2,300.0	2,293.8	2,252.1	2,244.1	6.7	6.8	-76.59	234.0	-103.5	226.9	214.7	12.22	18.565	
2,375.0	2,367.9	2,325.6	2,315.9	7.0	7.0	-78.23	248.3	-110.7	240.0	227.5	12.53	19.151	
2,400.0	2,392.6	2,350.1	2,339.8	7.0	7.1	-78.74	253.0	-113.1	244.4	231.8	12.64	19.340	

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 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 +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
2,470.0	2,461.7	2,418.8	2,406.9	7.3	7.3	-80.07		266.2	-119.8	256.9	243.9	12.94	19.853	
2,500.0	2,491.4	2,448.2	2,435.6	7.4	7.4	-80.61		271.9	-122.6	262.3	249.2	13.07	20.065	
2,565.0	2,555.6	2,511.9	2,497.8	7.6	7.6	-81.69		284.2	-128.9	274.0	260.6	13.36	20.512	
2,600.0	2,590.1	2,546.3	2,531.3	7.7	7.8	-82.23		290.9	-132.2	280.3	266.8	13.51	20.744	
2,660.0	2,649.4	2,605.1	2,588.8	7.9	8.0	-83.11		302.2	-138.0	291.3	277.5	13.78	21.130	
2,700.0	2,688.9	2,644.3	2,627.1	8.1	8.1	-83.66		309.8	-141.8	298.6	284.6	13.97	21.378	
2,755.0	2,743.2	2,698.2	2,679.7	8.2	8.3	-84.38		320.2	-147.1	308.7	294.5	14.22	21.710	
2,800.0	2,787.7	2,742.4	2,722.8	8.4	8.5	-84.93		328.8	-151.4	317.0	302.6	14.43	21.971	
2,850.0	2,837.1	2,791.4	2,770.7	8.6	8.7	-85.51		338.2	-156.2	326.3	311.6	14.66	22.252	
2,900.0	2,886.5	2,840.4	2,818.5	8.8	8.9	-86.05		347.7	-161.0	335.6	320.7	14.90	22.524	
2,945.0	2,930.9	2,884.6	2,861.6	8.9	9.0	-86.52		356.2	-165.3	343.9	328.8	15.11	22.761	
3,000.0	2,985.2	2,938.5	2,914.3	9.2	9.2	-87.06		366.7	-170.6	354.2	338.8	15.37	23.042	
3,040.0	3,024.7	2,977.7	2,952.6	9.3	9.4	-87.44		374.2	-174.4	361.7	346.1	15.56	23.239	
3,100.0	3,084.0	3,036.6	3,010.0	9.5	9.6	-87.97		385.6	-180.1	373.0	357.1	15.85	23.526	
3,135.0	3,118.6	3,070.9	3,043.5	9.7	9.8	-88.27		392.2	-183.5	379.6	363.5	16.02	23.687	
3,200.0	3,182.8	3,134.6	3,105.7	9.9	10.0	-88.79		404.5	-189.7	391.8	375.5	16.34	23.979	
3,230.0	3,212.4	3,164.0	3,134.5	10.0	10.1	-89.02		410.2	-192.6	397.5	381.0	16.49	24.109	
3,300.0	3,281.5	3,232.7	3,201.5	10.3	10.4	-89.54		423.5	-199.3	410.7	393.9	16.83	24.404	
3,325.0	3,306.2	3,257.2	3,225.4	10.4	10.5	-89.71		428.2	-201.7	415.5	398.5	16.95	24.505	
3,400.0	3,380.3	3,330.7	3,297.2	10.7	10.8	-90.22		442.4	-208.9	429.7	412.4	17.32	24.802	
3,420.0	3,400.0	3,350.4	3,316.3	10.8	10.9	-90.34		446.2	-210.8	433.5	416.1	17.42	24.879	
3,500.0	3,479.1	3,428.8	3,392.9	11.1	11.3	-90.84		461.4	-218.5	448.7	430.9	17.82	25.176	
3,515.0	3,493.9	3,443.5	3,407.3	11.2	11.3	-90.93		464.2	-219.9	451.6	433.7	17.90	25.230	
3,600.0	3,577.8	3,526.9	3,488.7	11.5	11.7	-91.41		480.3	-228.1	467.8	449.5	18.32	25.528	
3,610.0	3,587.7	3,536.7	3,498.2	11.5	11.7	-91.46		482.2	-229.0	469.7	451.3	18.37	25.562	
3,700.0	3,676.6	3,624.9	3,584.4	11.9	12.1	-91.94		499.3	-237.6	486.9	468.1	18.83	25.860	
3,705.0	3,681.5	3,629.8	3,589.2	11.9	12.1	-91.96		500.2	-238.1	487.9	469.0	18.85	25.876	
3,800.0	3,775.4	3,723.0	3,680.1	12.3	12.5	-92.42		518.2	-247.2	506.1	486.7	19.34	26.172	
3,895.0	3,869.2	3,816.1	3,771.1	12.7	12.9	-92.85		536.2	-256.3	524.3	504.5	19.82	26.452	
3,900.0	3,874.1	3,821.1	3,775.9	12.7	12.9	-92.88		537.1	-256.8	525.2	505.4	19.85	26.466	
3,990.0	3,963.0	3,909.3	3,862.0	13.1	13.3	-93.25		554.2	-265.4	542.5	522.2	20.31	26.717	
4,000.0	3,972.9	3,919.1	3,871.6	13.1	13.4	-93.30		556.1	-266.4	544.5	524.1	20.36	26.744	
4,085.0	4,056.9	4,002.5	3,953.0	13.5	13.7	-93.63		572.2	-274.5	560.8	540.0	20.79	26.969	
4,100.0	4,071.7	4,017.2	3,967.4	13.6	13.8	-93.69		575.0	-276.0	563.7	542.8	20.87	27.009	
4,180.0	4,150.7	4,097.1	4,045.4	13.9	14.2	-93.99		590.5	-283.8	579.1	557.8	21.28	27.211	
4,200.0	4,170.4	4,120.7	4,068.5	14.0	14.3	-94.08		594.9	-286.0	582.8	561.4	21.41	27.222	
4,210.2	4,180.5	4,132.8	4,080.3	14.0	14.3	-94.13		597.1	-287.1	584.7	563.2	21.47	27.235	
4,275.0	4,244.6	4,209.7	4,155.8	14.3	14.7	-94.59		610.0	-293.7	595.6	573.8	21.87	27.230	
4,300.0	4,269.3	4,239.5	4,185.2	14.4	14.8	-94.77		614.5	-295.9	599.5	577.4	22.02	27.223	
4,370.0	4,338.7	4,323.3	4,268.0	14.7	15.2	-95.26		625.7	-301.6	609.0	586.6	22.43	27.153	
4,400.0	4,368.4	4,359.4	4,303.8	14.8	15.4	-95.48		629.9	-303.7	612.6	590.0	22.60	27.112	
4,465.0	4,433.0	4,437.7	4,381.7	15.0	15.7	-95.94		637.6	-307.6	619.2	596.3	22.93	27.001	
4,500.0	4,467.8	4,480.0	4,423.8	15.2	15.9	-96.20		640.9	-309.3	622.2	599.1	23.11	26.928	
4,560.0	4,527.5	4,552.6	4,496.2	15.4	16.1	-96.65		645.4	-311.6	626.3	602.9	23.37	26.793	
4,600.0	4,567.3	4,601.1	4,544.7	15.6	16.3	-96.95		647.4	-312.6	628.2	604.7	23.54	26.686	
4,655.0	4,622.1	4,667.8	4,611.3	15.8	16.5	-97.38		649.1	-313.4	630.1	606.3	23.72	26.559	
4,700.0	4,667.0	4,720.7	4,664.3	15.9	16.6	-97.72		649.4	-313.6	630.7	606.9	23.83	26.468	
4,750.0	4,716.9	4,770.6	4,714.2	16.1	16.6	-98.03		649.4	-313.6	631.2	607.3	23.90	26.411	
4,800.0	4,766.8	4,820.5	4,764.1	16.3	16.7	-98.30		649.4	-313.6	631.6	607.6	23.97	26.347	
4,845.0	4,811.7	4,865.5	4,809.0	16.4	16.7	-98.50		649.4	-313.6	632.0	607.9	24.04	26.286	
4,900.0	4,866.7	4,920.4	4,864.0	16.6	16.7	-98.71		649.4	-313.6	632.3	608.2	24.13	26.205	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 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: Reference		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			
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	4,906.6	4,960.4	4,903.9	16.7	16.7	-98.83	649.4	-313.6	632.5	608.3	24.19	26.146		
5,000.0	4,966.6	5,020.4	4,963.9	16.9	16.8	-98.97	649.4	-313.6	632.7	608.4	24.29	26.051		
5,035.0	5,001.6	5,055.4	4,998.9	17.0	16.8	-99.02	649.4	-313.6	632.8	608.5	24.34	25.996		
5,100.0	5,066.6	5,120.4	5,063.9	17.1	16.8	-99.06	649.4	-313.6	632.9	608.4	24.45	25.887		
5,110.4	5,077.0	5,130.8	5,074.3	17.1	16.8	-64.77	649.4	-313.6	632.9	608.4	24.46	25.878		
5,130.0	5,096.6	5,150.4	5,093.9	17.1	16.8	-64.77	649.4	-313.6	632.9	608.4	24.48	25.848		
5,200.0	5,166.6	5,220.4	5,163.9	17.2	16.9	-64.77	649.4	-313.6	632.9	608.3	24.58	25.744		
5,225.0	5,191.6	5,245.4	5,188.9	17.2	16.9	-64.77	649.4	-313.6	632.9	608.3	24.62	25.704		
5,300.0	5,266.6	5,320.4	5,263.9	17.2	16.9	-64.77	649.4	-313.6	632.9	608.2	24.74	25.586		
5,320.0	5,286.6	5,340.4	5,283.9	17.2	16.9	-64.77	649.4	-313.6	632.9	608.1	24.77	25.554		
5,400.0	5,366.6	5,420.4	5,363.9	17.3	17.0	-64.77	649.4	-313.6	632.9	608.0	24.89	25.429		
5,415.0	5,381.6	5,435.4	5,378.9	17.3	17.0	-64.77	649.4	-313.6	632.9	608.0	24.91	25.406		
5,500.0	5,466.6	5,520.4	5,463.9	17.3	17.0	-64.77	649.4	-313.6	632.9	607.8	25.04	25.275		
5,510.0	5,476.6	5,530.4	5,473.9	17.4	17.1	-64.77	649.4	-313.6	632.9	607.8	25.06	25.259		
5,600.0	5,566.6	5,620.4	5,563.9	17.4	17.1	-64.77	649.4	-313.6	632.9	607.7	25.19	25.122		
5,605.0	5,571.6	5,625.4	5,568.9	17.4	17.1	-64.77	649.4	-313.6	632.9	607.7	25.20	25.114		
5,700.0	5,666.6	5,720.4	5,663.9	17.5	17.2	-64.77	649.4	-313.6	632.9	607.5	25.35	24.971		
5,795.0	5,761.6	5,815.4	5,758.9	17.5	17.2	-64.77	649.4	-313.6	632.9	607.4	25.49	24.829		
5,800.0	5,766.6	5,820.4	5,763.9	17.5	17.2	-64.77	649.4	-313.6	632.9	607.4	25.50	24.821		
5,890.0	5,856.6	5,910.4	5,853.9	17.6	17.3	-64.77	649.4	-313.6	632.9	607.3	25.64	24.688		
5,900.0	5,866.6	5,920.4	5,863.9	17.6	17.3	-64.77	649.4	-313.6	632.9	607.2	25.65	24.674		
5,985.0	5,951.6	6,005.4	5,948.9	17.6	17.3	-64.77	649.4	-313.6	632.9	607.1	25.78	24.550		
6,000.0	5,966.6	6,020.4	5,963.9	17.6	17.3	-64.77	649.4	-313.6	632.9	607.1	25.80	24.528		
6,080.0	6,046.6	6,100.4	6,043.9	17.7	17.4	-64.77	649.4	-313.6	632.9	607.0	25.92	24.412		
6,100.0	6,066.6	6,120.4	6,063.9	17.7	17.4	-64.77	649.4	-313.6	632.9	606.9	25.96	24.384		
6,175.0	6,141.6	6,195.4	6,138.9	17.7	17.4	-64.77	649.4	-313.6	632.9	606.8	26.07	24.276		
6,200.0	6,166.6	6,220.4	6,163.9	17.7	17.5	-64.77	649.4	-313.6	632.9	606.8	26.11	24.241		
6,270.0	6,236.6	6,290.4	6,233.9	17.8	17.5	-64.77	649.4	-313.6	632.9	606.7	26.22	24.142		
6,300.0	6,266.6	6,320.4	6,263.9	17.8	17.5	-64.77	649.4	-313.6	632.9	606.6	26.26	24.100		
6,365.0	6,331.6	6,385.4	6,328.9	17.8	17.5	-64.77	649.4	-313.6	632.9	606.5	26.36	24.009		
6,400.0	6,366.6	6,420.4	6,363.9	17.8	17.6	-64.77	649.4	-313.6	632.9	606.5	26.41	23.961		
6,460.0	6,426.6	6,480.4	6,423.9	17.9	17.6	-64.77	649.4	-313.6	632.9	606.4	26.51	23.878		
6,500.0	6,466.6	6,520.4	6,463.9	17.9	17.6	-64.77	649.4	-313.6	632.9	606.3	26.57	23.823		
6,555.0	6,521.6	6,575.4	6,518.9	17.9	17.7	-64.77	649.4	-313.6	632.9	606.2	26.65	23.748		
6,600.0	6,566.6	6,620.4	6,563.9	18.0	17.7	-64.77	649.4	-313.6	632.9	606.2	26.72	23.686		
6,650.0	6,616.6	6,670.4	6,613.9	18.0	17.7	-64.77	649.4	-313.6	632.9	606.1	26.80	23.619		
6,700.0	6,666.6	6,720.4	6,663.9	18.0	17.7	-64.77	649.4	-313.6	632.9	606.0	26.87	23.552		
6,745.0	6,711.6	6,765.4	6,708.9	18.0	17.8	-64.77	649.4	-313.6	632.9	605.9	26.94	23.491		
6,800.0	6,766.6	6,820.4	6,763.9	18.1	17.8	-64.77	649.4	-313.6	632.9	605.9	27.03	23.418		
6,840.0	6,806.6	6,860.4	6,803.9	18.1	17.8	-64.77	649.4	-313.6	632.9	605.8	27.09	23.365		
6,900.0	6,866.6	6,920.4	6,863.9	18.1	17.9	-64.77	649.4	-313.6	632.9	605.7	27.18	23.286		
6,935.0	6,901.6	6,955.4	6,898.9	18.2	17.9	-64.77	649.4	-313.6	632.9	605.7	27.23	23.241		
7,000.0	6,966.6	7,020.4	6,963.9	18.2	17.9	-64.77	649.4	-313.6	632.9	605.6	27.33	23.156		
7,030.0	6,996.6	7,050.4	6,993.9	18.2	17.9	-64.77	649.4	-313.6	632.9	605.5	27.38	23.117		
7,100.0	7,066.6	7,120.4	7,063.9	18.2	18.0	-64.77	649.4	-313.6	632.9	605.4	27.48	23.027		
7,125.0	7,091.6	7,145.4	7,088.9	18.3	18.0	-64.77	649.4	-313.6	632.9	605.4	27.52	22.995		
7,200.0	7,166.6	7,220.4	7,163.9	18.3	18.0	-64.77	649.4	-313.6	632.9	605.3	27.64	22.899		
7,220.0	7,186.6	7,240.4	7,183.9	18.3	18.1	-64.77	649.4	-313.6	632.9	605.2	27.67	22.874		
7,300.0	7,266.6	7,320.4	7,263.9	18.4	18.1	-64.77	649.4	-313.6	632.9	605.1	27.79	22.773		
7,315.0	7,281.6	7,335.4	7,278.9	18.4	18.1	-64.77	649.4	-313.6	632.9	605.1	27.81	22.754		
7,400.0	7,366.6	7,420.4	7,363.9	18.4	18.2	-64.77	649.4	-313.6	632.9	604.9	27.94	22.648		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 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		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
7,410.0	7,376.6	7,430.4	7,373.9	18.4	18.2	-64.77	649.4	-313.6	632.9	604.9	27.96	22.635	
7,500.0	7,466.6	7,520.4	7,463.9	18.5	18.2	-64.77	649.4	-313.6	632.9	604.8	28.10	22.524	
7,505.0	7,471.6	7,525.4	7,468.9	18.5	18.2	-64.77	649.4	-313.6	632.9	604.8	28.11	22.518	
7,600.0	7,566.6	7,620.4	7,563.9	18.5	18.3	-64.77	649.4	-313.6	632.9	604.6	28.25	22.402	
7,695.0	7,661.6	7,715.4	7,658.9	18.6	18.3	-64.77	649.4	-313.6	632.9	604.5	28.40	22.287	
7,700.0	7,666.6	7,720.4	7,663.9	18.6	18.3	-64.77	649.4	-313.6	632.9	604.5	28.41	22.281	
7,790.0	7,756.6	7,810.4	7,753.9	18.6	18.4	-64.77	649.4	-313.6	632.9	604.3	28.54	22.173	
7,800.0	7,766.6	7,820.4	7,763.9	18.7	18.4	-64.77	649.4	-313.6	632.9	604.3	28.56	22.161	
7,885.0	7,851.6	7,905.4	7,848.9	18.7	18.5	-64.77	649.4	-313.6	632.9	604.2	28.69	22.060	
7,900.0	7,866.6	7,920.4	7,863.9	18.7	18.5	-64.77	649.4	-313.6	632.9	604.2	28.71	22.042	
7,980.0	7,946.6	8,000.4	7,943.9	18.8	18.5	-64.77	649.4	-313.6	632.9	604.1	28.84	21.948	
8,000.0	7,966.6	8,020.4	7,963.9	18.8	18.5	-64.77	649.4	-313.6	632.9	604.0	28.87	21.925	
8,075.0	8,041.6	8,095.4	8,038.9	18.8	18.6	-64.77	649.4	-313.6	632.9	603.9	28.98	21.838	
8,100.0	8,066.6	8,120.4	8,063.9	18.8	18.6	-64.77	649.4	-313.6	632.9	603.9	29.02	21.809	
8,170.0	8,136.6	8,190.4	8,133.9	18.9	18.6	-64.77	649.4	-313.6	632.9	603.8	29.13	21.728	
8,200.0	8,166.6	8,220.4	8,163.9	18.9	18.6	-64.77	649.4	-313.6	632.9	603.7	29.17	21.694	
8,265.0	8,231.6	8,285.4	8,228.9	18.9	18.7	-64.77	649.4	-313.6	632.9	603.6	29.27	21.620	
8,300.0	8,266.6	8,320.4	8,263.9	19.0	18.7	-64.77	649.4	-313.6	632.9	603.6	29.33	21.580	
8,360.0	8,326.6	8,380.4	8,323.9	19.0	18.7	-64.77	649.4	-313.6	632.9	603.5	29.42	21.512	
8,400.0	8,366.6	8,420.4	8,363.9	19.0	18.8	-64.77	649.4	-313.6	632.9	603.4	29.48	21.467	
8,417.4	8,384.0	8,437.8	8,381.3	19.0	18.8	-64.77	649.4	-313.6	632.9	603.4	29.50	21.456	
8,450.0	8,416.6	8,470.4	8,413.9	19.0	18.8	114.77	649.4	-313.6	633.3	603.7	29.53	21.445	
8,455.0	8,421.6	8,475.3	8,418.9	19.0	18.8	114.78	649.4	-313.6	633.4	603.9	29.54	21.445	
8,500.0	8,466.3	8,520.1	8,463.6	19.1	18.8	114.98	649.4	-313.6	635.4	605.8	29.61	21.460	
8,550.0	8,515.4	8,569.2	8,512.7	19.1	18.9	115.36	649.4	-313.6	639.4	609.7	29.71	21.525	
8,600.0	8,563.5	8,617.3	8,560.8	19.2	18.9	115.87	649.4	-313.6	645.5	615.7	29.83	21.642	
8,645.0	8,605.7	8,659.4	8,603.0	19.2	18.9	116.39	649.4	-313.6	652.8	622.8	29.95	21.793	
8,650.0	8,610.3	8,664.0	8,607.6	19.2	18.9	116.45	649.4	-313.6	653.7	623.8	29.97	21.812	
8,700.0	8,655.3	8,709.1	8,652.6	19.3	18.9	117.03	649.4	-313.6	664.3	634.2	30.14	22.039	
8,740.0	8,689.8	8,743.6	8,687.1	19.3	19.0	117.45	649.4	-313.6	674.7	644.4	30.30	22.263	
8,750.0	8,698.3	8,752.0	8,695.6	19.3	19.0	117.54	649.4	-313.6	677.5	647.2	30.35	22.325	
8,800.0	8,738.8	8,792.6	8,736.1	19.4	19.0	117.91	649.4	-313.6	693.4	662.8	30.58	22.672	
8,835.0	8,765.6	8,819.4	8,762.9	19.4	19.0	118.03	649.4	-313.6	706.2	675.5	30.77	22.954	
8,850.0	8,776.7	8,830.4	8,774.0	19.5	19.0	118.04	649.4	-313.6	712.2	681.3	30.85	23.084	
8,900.0	8,811.6	8,865.3	8,808.9	19.5	19.0	117.85	649.4	-313.6	733.9	702.7	31.14	23.564	
8,930.0	8,830.9	8,884.7	8,828.2	19.5	19.1	117.54	649.4	-313.6	748.3	717.0	31.33	23.885	
8,950.0	8,843.2	8,896.9	8,840.5	19.6	19.1	117.25	649.4	-313.6	758.6	727.1	31.46	24.113	
9,000.0	8,871.3	8,925.1	8,868.6	19.6	19.1	116.14	649.4	-313.6	786.1	754.4	31.79	24.733	
9,025.0	8,884.0	8,937.7	8,881.3	19.6	19.1	115.36	649.4	-313.6	801.0	769.0	31.95	25.070	
9,050.0	8,895.7	8,949.5	8,893.0	19.7	19.1	114.41	649.4	-313.6	816.5	784.4	32.12	25.424	
9,100.0	8,916.2	8,970.0	8,913.5	19.7	19.1	111.95	649.4	-313.6	849.5	817.0	32.44	26.185	
9,120.0	8,923.3	8,977.1	8,920.6	19.7	19.1	110.73	649.4	-313.6	863.3	830.8	32.57	26.509	
9,150.0	8,932.7	8,986.5	8,930.0	19.8	19.1	108.63	649.4	-313.6	884.8	852.1	32.76	27.013	
9,200.0	8,945.0	8,998.8	8,942.3	19.8	19.1	104.32	649.4	-313.6	922.2	889.1	33.05	27.903	
9,215.0	8,947.9	9,001.6	8,945.2	19.8	19.1	102.82	649.4	-313.6	933.7	900.6	33.13	28.181	
9,250.0	8,953.0	9,006.8	8,950.3	19.8	19.1	98.94	649.4	-313.6	961.2	927.9	33.32	28.848	
9,300.0	8,956.7	10,386.2	9,756.2	19.9	20.3	144.36	-170.2	-320.9	986.9	952.0	34.86	28.307	
9,310.0	8,957.0	10,396.1	9,756.2	19.9	20.3	144.36	-180.2	-321.0	986.7	951.8	34.90	28.270	
9,316.8	8,957.0	10,402.9	9,756.2	19.9	20.3	144.36	-186.9	-321.0	986.7	951.7	34.93	28.247	
9,400.0	8,957.1	10,486.1	9,756.3	19.9	20.3	144.36	-270.2	-321.8	986.7	951.3	35.31	27.942	
9,405.0	8,957.1	10,491.1	9,756.3	19.9	20.3	144.36	-275.2	-321.8	986.7	951.3	35.34	27.922	

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #805H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9240-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		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		
9,500.0	8,957.2	10,586.1	9,756.4	20.0	20.4	144.36	-370.2	-322.6	986.6	950.8	35.83	27.538		
9,595.0	8,957.3	10,681.1	9,756.4	20.1	20.5	144.36	-465.2	-323.5	986.6	950.2	36.37	27.123		
9,600.0	8,957.3	10,686.1	9,756.4	20.1	20.5	144.36	-470.2	-323.5	986.6	950.2	36.40	27.102		
9,690.0	8,957.4	10,776.1	9,756.5	20.1	20.6	144.36	-560.2	-324.3	986.6	949.6	36.97	26.684		
9,700.0	8,957.4	10,786.1	9,756.5	20.2	20.6	144.36	-570.2	-324.4	986.6	949.5	37.04	26.638		
9,785.0	8,957.5	10,871.1	9,756.6	20.2	20.7	144.36	-655.2	-325.2	986.5	948.9	37.62	26.225		
9,800.0	8,957.6	10,886.1	9,756.6	20.3	20.7	144.36	-670.2	-325.3	986.5	948.8	37.72	26.153		
9,880.0	8,957.6	10,966.1	9,756.7	20.4	20.8	144.36	-750.1	-326.0	986.5	948.2	38.31	25.750		
9,900.0	8,957.7	10,986.1	9,756.7	20.4	20.8	144.36	-770.1	-326.2	986.5	948.1	38.46	25.651		
9,975.0	8,957.8	11,061.1	9,756.7	20.5	20.9	144.36	-845.1	-326.9	986.5	947.4	39.05	25.264		
10,000.0	8,957.8	11,086.1	9,756.7	20.5	21.0	144.36	-870.1	-327.1	986.5	947.2	39.25	25.137		
10,070.0	8,957.9	11,156.1	9,756.8	20.6	21.1	144.35	-940.1	-327.7	986.5	946.6	39.83	24.770		
10,100.0	8,957.9	11,186.1	9,756.8	20.7	21.1	144.35	-970.1	-328.0	986.5	946.4	40.08	24.615		
10,165.0	8,958.0	11,251.1	9,756.9	20.8	21.3	144.35	-1,035.1	-328.5	986.4	945.8	40.64	24.271		
10,200.0	8,958.0	11,286.1	9,756.9	20.9	21.3	144.35	-1,070.1	-328.9	986.4	945.5	40.95	24.089		
10,260.0	8,958.1	11,346.1	9,757.0	21.0	21.5	144.35	-1,130.1	-329.4	986.4	944.9	41.50	23.772		
10,300.0	8,958.1	11,386.1	9,757.0	21.1	21.5	144.35	-1,170.1	-329.7	986.4	944.5	41.86	23.563		
10,355.0	8,958.2	11,441.1	9,757.0	21.2	21.7	144.35	-1,225.1	-330.2	986.4	944.0	42.38	23.273		
10,400.0	8,958.2	11,486.1	9,757.1	21.3	21.8	144.35	-1,270.1	-330.6	986.4	943.6	42.81	23.040		
10,450.0	8,958.3	11,536.1	9,757.1	21.4	21.9	144.35	-1,320.1	-331.1	986.4	943.1	43.30	22.778		
10,500.0	8,958.4	11,586.1	9,757.1	21.5	22.1	144.35	-1,370.1	-331.5	986.3	942.5	43.80	22.521		
10,545.0	8,958.4	11,631.1	9,757.2	21.7	22.2	144.35	-1,415.1	-331.9	986.3	942.1	44.25	22.288		
10,600.0	8,958.5	11,686.1	9,757.2	21.8	22.4	144.35	-1,470.1	-332.4	986.3	941.5	44.81	22.009		
10,640.0	8,958.5	11,726.1	9,757.3	22.0	22.5	144.35	-1,510.1	-332.8	986.3	941.1	45.23	21.805		
10,700.0	8,958.6	11,786.1	9,757.3	22.1	22.8	144.35	-1,570.1	-333.3	986.3	940.4	45.86	21.506		
10,735.0	8,958.6	11,821.1	9,757.3	22.3	22.9	144.35	-1,605.1	-333.6	986.3	940.0	46.24	21.331		
10,800.0	8,958.7	11,886.1	9,757.4	22.5	23.2	144.35	-1,670.1	-334.2	986.3	939.3	46.94	21.012		
10,830.0	8,958.7	11,916.1	9,757.4	22.6	23.3	144.35	-1,700.1	-334.4	986.3	939.0	47.27	20.865		
10,900.0	8,958.8	11,986.1	9,757.5	22.9	23.6	144.35	-1,770.1	-335.1	986.2	938.2	48.04	20.529		
10,925.0	8,958.8	12,011.1	9,757.5	23.0	23.7	144.34	-1,795.1	-335.3	986.2	937.9	48.32	20.410		
11,000.0	8,958.9	12,086.1	9,757.5	23.3	24.0	144.34	-1,870.1	-336.0	986.2	937.0	49.17	20.058		
11,020.0	8,958.9	12,106.1	9,757.6	23.4	24.1	144.34	-1,890.1	-336.1	986.2	936.8	49.40	19.965		
11,100.0	8,959.0	12,186.1	9,757.6	23.7	24.5	144.34	-1,970.1	-336.8	986.2	935.9	50.32	19.599		
11,115.0	8,959.1	12,201.1	9,757.6	23.8	24.6	144.34	-1,985.1	-337.0	986.2	935.7	50.49	19.531		
11,200.0	8,959.2	12,286.1	9,757.7	24.2	25.0	144.34	-2,070.1	-337.7	986.1	934.7	51.49	19.152		
11,210.0	8,959.2	12,296.1	9,757.7	24.2	25.1	144.34	-2,080.1	-337.8	986.1	934.5	51.61	19.108		
11,300.0	8,959.3	12,386.1	9,757.8	24.6	25.6	144.34	-2,170.1	-338.6	986.1	933.4	52.68	18.718		
11,305.0	8,959.3	12,391.1	9,757.8	24.7	25.6	144.34	-2,175.1	-338.7	986.1	933.4	52.74	18.697		
11,400.0	8,959.4	12,486.1	9,757.9	25.1	26.1	144.34	-2,270.1	-339.5	986.1	932.2	53.89	18.297		
11,495.0	8,959.5	12,581.1	9,757.9	25.6	26.6	144.34	-2,365.1	-340.3	986.1	931.0	55.06	17.909		
11,500.0	8,959.5	12,586.1	9,757.9	25.7	26.7	144.34	-2,370.1	-340.4	986.1	930.9	55.12	17.889		
11,590.0	8,959.6	12,676.1	9,758.0	26.2	27.2	144.34	-2,460.1	-341.2	986.0	929.8	56.24	17.533		
11,600.0	8,959.6	12,686.1	9,758.0	26.2	27.2	144.34	-2,470.1	-341.3	986.0	929.7	56.36	17.494		
11,685.0	8,959.7	12,771.1	9,758.1	26.7	27.8	144.34	-2,555.1	-342.0	986.0	928.6	57.43	17.167		
11,700.0	8,959.7	12,786.1	9,758.1	26.8	27.8	144.34	-2,570.1	-342.2	986.0	928.4	57.62	17.111		
11,780.0	8,959.8	12,866.1	9,758.2	27.2	28.3	144.33	-2,650.1	-342.9	986.0	927.3	58.64	16.813		
11,800.0	8,959.8	12,886.1	9,758.2	27.3	28.4	144.33	-2,670.1	-343.1	986.0	927.1	58.90	16.741		
11,875.0	8,959.9	12,961.1	9,758.2	27.8	28.9	144.33	-2,745.1	-343.7	986.0	926.1	59.86	16.470		
11,900.0	8,960.0	12,986.1	9,758.3	27.9	29.1	144.33	-2,770.1	-343.9	985.9	925.8	60.18	16.382		
11,970.0	8,960.0	13,056.1	9,758.3	28.3	29.5	144.33	-2,840.1	-344.6	985.9	924.8	61.09	16.138		
12,000.0	8,960.1	13,086.1	9,758.3	28.5	29.7	144.33	-2,870.1	-344.8	985.9	924.4	61.48	16.035		

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 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: Reference		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	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
12,065.0	8,960.1	13,151.1	9,758.4	28.9	30.1	144.33	-2,935.1	-345.4	985.9	923.6	62.34	15.816		
12,100.0	8,960.2	13,186.1	9,758.4	29.1	30.3	144.33	-2,970.1	-345.7	985.9	923.1	62.80	15.700		
12,160.0	8,960.2	13,246.1	9,758.5	29.5	30.7	144.33	-3,030.1	-346.2	985.9	922.3	63.59	15.504		
12,200.0	8,960.3	13,286.1	9,758.5	29.8	31.0	144.33	-3,070.1	-346.6	985.9	921.7	64.12	15.376		
12,255.0	8,960.4	13,341.1	9,758.5	30.1	31.3	144.33	-3,125.1	-347.1	985.8	921.0	64.85	15.202		
12,300.0	8,960.4	13,386.1	9,758.6	30.4	31.6	144.33	-3,170.1	-347.5	985.8	920.4	65.45	15.062		
12,350.0	8,960.5	13,436.1	9,758.6	30.7	31.9	144.33	-3,220.1	-347.9	985.8	919.7	66.12	14.909		
12,400.0	8,960.5	13,486.1	9,758.7	31.0	32.3	144.33	-3,270.0	-348.4	985.8	919.0	66.79	14.759		
12,445.0	8,960.6	13,531.1	9,758.7	31.3	32.6	144.33	-3,315.0	-348.8	985.8	918.4	67.40	14.626		
12,500.0	8,960.6	13,586.1	9,758.7	31.7	32.9	144.33	-3,370.0	-349.3	985.8	917.6	68.14	14.466		
12,540.0	8,960.7	13,626.1	9,758.8	31.9	33.2	144.33	-3,410.0	-349.6	985.8	917.1	68.69	14.351		
12,600.0	8,960.8	13,686.1	9,758.8	32.3	33.6	144.32	-3,470.0	-350.2	985.8	916.2	69.50	14.183		
12,635.0	8,960.8	13,721.1	9,758.8	32.5	33.8	144.32	-3,505.0	-350.5	985.7	915.8	69.98	14.085		
12,700.0	8,960.9	13,786.1	9,758.9	33.0	34.3	144.32	-3,570.0	-351.0	985.7	914.9	70.87	13.908		
12,730.0	8,960.9	13,816.1	9,758.9	33.2	34.5	144.32	-3,600.0	-351.3	985.7	914.4	71.28	13.828		
12,800.0	8,961.0	13,886.1	9,759.0	33.6	34.9	144.32	-3,670.0	-351.9	985.7	913.4	72.25	13.643		
12,825.0	8,961.0	13,911.1	9,759.0	33.8	35.1	144.32	-3,695.0	-352.1	985.7	913.1	72.59	13.578		
12,900.0	8,961.1	13,986.1	9,759.0	34.3	35.6	144.32	-3,770.0	-352.8	985.7	912.0	73.63	13.386		
12,920.0	8,961.1	14,006.1	9,759.1	34.4	35.8	144.32	-3,790.0	-353.0	985.7	911.8	73.91	13.336		
13,000.0	8,961.2	14,086.1	9,759.1	35.0	36.3	144.32	-3,870.0	-353.7	985.6	910.6	75.02	13.138		
13,015.0	8,961.2	14,101.1	9,759.1	35.1	36.4	144.32	-3,885.0	-353.8	985.6	910.4	75.23	13.102		
13,100.0	8,961.3	14,186.1	9,759.2	35.7	37.0	144.32	-3,970.0	-354.6	985.6	909.2	76.42	12.898		
13,110.0	8,961.3	14,196.1	9,759.2	35.7	37.1	144.32	-3,980.0	-354.7	985.6	909.0	76.56	12.874		
13,200.0	8,961.4	14,286.1	9,759.3	36.3	37.7	144.32	-4,070.0	-355.5	985.6	907.8	77.82	12.665		
13,205.0	8,961.4	14,291.1	9,759.3	36.4	37.7	144.32	-4,075.0	-355.5	985.6	907.7	77.89	12.653		
13,300.0	8,961.6	14,386.1	9,759.4	37.0	38.4	144.32	-4,170.0	-356.4	985.6	906.3	79.23	12.439		
13,395.0	8,961.7	14,481.1	9,759.4	37.7	39.0	144.32	-4,265.0	-357.2	985.5	905.0	80.57	12.232		
13,400.0	8,961.7	14,486.1	9,759.4	37.7	39.1	144.32	-4,270.0	-357.2	985.5	904.9	80.64	12.221		
13,490.0	8,961.8	14,576.1	9,759.5	38.3	39.7	144.31	-4,360.0	-358.0	985.5	903.6	81.92	12.030		
13,500.0	8,961.8	14,586.1	9,759.5	38.4	39.8	144.31	-4,370.0	-358.1	985.5	903.4	82.06	12.009		
13,585.0	8,961.9	14,671.1	9,759.6	39.0	40.4	144.31	-4,455.0	-358.9	985.5	902.2	83.27	11.834		
13,600.0	8,961.9	14,686.1	9,759.6	39.1	40.5	144.31	-4,470.0	-359.0	985.5	902.0	83.48	11.804		
13,680.0	8,962.0	14,766.1	9,759.7	39.7	41.0	144.31	-4,550.0	-359.7	985.4	900.8	84.63	11.644		
13,700.0	8,962.0	14,786.1	9,759.7	39.8	41.2	144.31	-4,570.0	-359.9	985.4	900.5	84.91	11.605		
13,775.0	8,962.1	14,861.1	9,759.7	40.3	41.7	144.31	-4,645.0	-360.6	985.4	899.4	85.99	11.460		
13,800.0	8,962.1	14,886.1	9,759.8	40.5	41.9	144.31	-4,670.0	-360.8	985.4	899.1	86.35	11.412		
13,870.0	8,962.2	14,956.1	9,759.8	41.0	42.4	144.31	-4,740.0	-361.4	985.4	898.0	87.35	11.281		
13,900.0	8,962.2	14,986.1	9,759.8	41.2	42.6	144.31	-4,770.0	-361.7	985.4	897.6	87.78	11.225		
13,965.0	8,962.3	15,051.1	9,759.9	41.7	43.1	144.31	-4,835.0	-362.3	985.4	896.6	88.72	11.106		
14,000.0	8,962.4	15,086.1	9,759.9	41.9	43.3	144.31	-4,870.0	-362.6	985.4	896.1	89.22	11.044		
14,060.0	8,962.4	15,146.1	9,760.0	42.3	43.7	144.31	-4,930.0	-363.1	985.3	895.2	90.09	10.937		
14,100.0	8,962.5	15,186.1	9,760.0	42.6	44.0	144.31	-4,970.0	-363.5	985.3	894.7	90.67	10.867		
14,155.0	8,962.5	15,241.1	9,760.0	43.0	44.4	144.31	-5,025.0	-363.9	985.3	893.8	91.47	10.772		
14,200.0	8,962.6	15,286.1	9,760.1	43.3	44.7	144.31	-5,070.0	-364.3	985.3	893.2	92.12	10.696		
14,250.0	8,962.6	15,336.1	9,760.1	43.7	45.1	144.30	-5,120.0	-364.8	985.3	892.4	92.84	10.612		
14,300.0	8,962.7	15,386.1	9,760.2	44.0	45.5	144.30	-5,170.0	-365.2	985.3	891.7	93.57	10.530		
14,345.0	8,962.7	15,431.1	9,760.2	44.4	45.8	144.30	-5,215.0	-365.6	985.3	891.0	94.23	10.456		
14,400.0	8,962.8	15,486.1	9,760.2	44.8	46.2	144.30	-5,270.0	-366.1	985.2	890.2	95.03	10.368		
14,440.0	8,962.9	15,526.1	9,760.3	45.0	46.5	144.30	-5,310.0	-366.5	985.2	889.6	95.61	10.305		
14,500.0	8,962.9	15,586.1	9,760.3	45.5	46.9	144.30	-5,370.0	-367.0	985.2	888.7	96.48	10.211		
14,535.0	8,963.0	15,621.1	9,760.3	45.7	47.2	144.30	-5,405.0	-367.3	985.2	888.2	97.00	10.157		

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 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: Reference		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		
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		
14,600.0	8,963.0	15,686.1	9,760.4	46.2	47.6	144.30	-5,470.0	-367.9	985.2	887.2	97.95	10.058		
14,630.0	8,963.1	15,716.1	9,760.4	46.4	47.8	144.30	-5,500.0	-368.2	985.2	886.8	98.39	10.013		
14,700.0	8,963.2	15,786.1	9,760.5	46.9	48.3	144.30	-5,570.0	-368.8	985.2	885.7	99.41	9.910		
14,725.0	8,963.2	15,811.1	9,760.5	47.1	48.5	144.30	-5,595.0	-369.0	985.2	885.4	99.78	9.873		
14,800.0	8,963.3	15,886.1	9,760.6	47.6	49.1	144.30	-5,670.0	-369.7	985.1	884.3	100.88	9.766		
14,820.0	8,963.3	15,906.1	9,760.6	47.8	49.2	144.30	-5,690.0	-369.8	985.1	884.0	101.17	9.737		
14,900.0	8,963.4	15,986.1	9,760.6	48.4	49.8	144.30	-5,769.9	-370.6	985.1	882.8	102.35	9.625		
14,915.0	8,963.4	16,001.1	9,760.6	48.5	49.9	144.30	-5,784.9	-370.7	985.1	882.5	102.57	9.604		
15,000.0	8,963.5	16,086.1	9,760.7	49.1	50.5	144.30	-5,869.9	-371.4	985.1	881.3	103.82	9.488		
15,010.0	8,963.5	16,096.1	9,760.7	49.1	50.6	144.30	-5,879.9	-371.5	985.1	881.1	103.97	9.475		
15,100.0	8,963.6	16,186.1	9,760.8	49.8	51.3	144.29	-5,969.9	-372.3	985.0	879.7	105.30	9.355		
15,105.0	8,963.6	16,191.1	9,760.8	49.8	51.3	144.29	-5,974.9	-372.4	985.0	879.7	105.37	9.348		
15,200.0	8,963.7	16,286.1	9,760.9	50.5	52.0	144.29	-6,069.9	-373.2	985.0	878.2	106.77	9.225		
15,295.0	8,963.8	16,381.1	9,760.9	51.2	52.7	144.29	-6,164.9	-374.1	985.0	876.8	108.18	9.105		
15,300.0	8,963.8	16,386.1	9,760.9	51.3	52.7	144.29	-6,169.9	-374.1	985.0	876.7	108.25	9.099		
15,390.0	8,963.9	16,476.1	9,761.0	51.9	53.4	144.29	-6,259.9	-374.9	985.0	875.4	109.59	8.988		
15,400.0	8,963.9	16,486.1	9,761.0	52.0	53.4	144.29	-6,269.9	-375.0	985.0	875.2	109.73	8.976		
15,485.0	8,964.0	16,571.1	9,761.1	52.6	54.1	144.29	-6,354.9	-375.7	984.9	873.9	111.00	8.874		
15,500.0	8,964.1	16,586.1	9,761.1	52.7	54.2	144.29	-6,369.9	-375.9	984.9	873.7	111.22	8.856		
15,580.0	8,964.2	16,666.1	9,761.2	53.3	54.8	144.29	-6,449.9	-376.6	984.9	872.5	112.41	8.762		
15,600.0	8,964.2	16,686.1	9,761.2	53.4	54.9	144.29	-6,469.9	-376.8	984.9	872.2	112.70	8.739		
15,675.0	8,964.3	16,761.1	9,761.2	54.0	55.5	144.29	-6,544.9	-377.4	984.9	871.1	113.82	8.653		
15,700.0	8,964.3	16,786.1	9,761.3	54.2	55.6	144.29	-6,569.9	-377.7	984.9	870.7	114.19	8.625		
15,770.0	8,964.4	16,856.1	9,761.3	54.7	56.2	144.29	-6,639.9	-378.3	984.9	869.6	115.23	8.547		
15,800.0	8,964.4	16,886.1	9,761.3	54.9	56.4	144.29	-6,669.9	-378.5	984.8	869.2	115.68	8.513		
15,865.0	8,964.5	16,951.1	9,761.4	55.4	56.9	144.29	-6,734.9	-379.1	984.8	868.2	116.65	8.443		
15,900.0	8,964.5	16,986.1	9,761.4	55.6	57.1	144.28	-6,769.9	-379.4	984.8	867.6	117.17	8.405		
15,960.0	8,964.6	17,046.1	9,761.5	56.1	57.6	144.28	-6,829.9	-380.0	984.8	866.7	118.07	8.341		
16,000.0	8,964.6	17,086.1	9,761.5	56.4	57.9	144.28	-6,869.9	-380.3	984.8	866.1	118.67	8.299		
16,055.0	8,964.7	17,141.1	9,761.5	56.8	58.3	144.28	-6,924.9	-380.8	984.8	865.3	119.49	8.242		
16,100.0	8,964.7	17,186.1	9,761.6	57.1	58.6	144.28	-6,969.9	-381.2	984.8	864.6	120.16	8.195		
16,150.0	8,964.8	17,236.1	9,761.6	57.5	59.0	144.28	-7,019.9	-381.6	984.7	863.8	120.91	8.145		
16,200.0	8,964.9	17,286.1	9,761.7	57.8	59.3	144.28	-7,069.9	-382.1	984.7	863.1	121.66	8.094		
16,245.0	8,964.9	17,331.1	9,761.7	58.2	59.7	144.28	-7,114.9	-382.5	984.7	862.4	122.33	8.050		
16,300.0	8,965.0	17,386.1	9,761.7	58.6	60.1	144.28	-7,169.9	-383.0	984.7	861.6	123.15	7.996		
16,340.0	8,965.0	17,426.1	9,761.8	58.9	60.4	144.28	-7,209.9	-383.3	984.7	860.9	123.75	7.957		
16,400.0	8,965.1	17,486.1	9,761.8	59.3	60.8	144.28	-7,269.9	-383.9	984.7	860.0	124.65	7.899		
16,435.0	8,965.1	17,521.1	9,761.8	59.6	61.1	144.28	-7,304.9	-384.2	984.7	859.5	125.18	7.866		
16,500.0	8,965.2	17,586.1	9,761.9	60.1	61.5	144.28	-7,369.9	-384.8	984.6	858.5	126.15	7.805		
16,530.0	8,965.2	17,616.1	9,761.9	60.3	61.8	144.28	-7,399.9	-385.0	984.6	858.0	126.60	7.777		
16,600.0	8,965.3	17,686.1	9,762.0	60.8	62.3	144.28	-7,469.9	-385.6	984.6	857.0	127.65	7.713		
16,625.0	8,965.3	17,711.1	9,762.0	61.0	62.5	144.28	-7,494.9	-385.9	984.6	856.6	128.03	7.690		
16,700.0	8,965.4	17,786.1	9,762.1	61.5	63.0	144.28	-7,569.9	-386.5	984.6	855.4	129.16	7.623		
16,720.0	8,965.5	17,806.1	9,762.1	61.7	63.2	144.28	-7,589.9	-386.7	984.6	855.1	129.46	7.605		
16,800.0	8,965.5	17,886.1	9,762.1	62.3	63.8	144.27	-7,669.9	-387.4	984.6	853.9	130.66	7.535		
16,815.0	8,965.6	17,901.1	9,762.1	62.4	63.9	144.27	-7,684.9	-387.5	984.6	853.7	130.89	7.522		
16,900.0	8,965.7	17,986.1	9,762.2	63.0	64.5	144.27	-7,769.9	-388.3	984.5	852.4	132.17	7.449		
16,910.0	8,965.7	17,996.1	9,762.2	63.1	64.6	144.27	-7,779.9	-388.4	984.5	852.2	132.32	7.441		
17,000.0	8,965.8	18,086.1	9,762.3	63.8	65.3	144.27	-7,869.9	-389.2	984.5	850.8	133.67	7.365		
17,005.0	8,965.8	18,091.1	9,762.3	63.8	65.3	144.27	-7,874.9	-389.2	984.5	850.8	133.75	7.361		
17,100.0	8,965.9	18,186.1	9,762.4	64.5	66.0	144.27	-7,969.9	-390.1	984.5	849.3	135.18	7.283		

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #805H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9240-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum	Separation	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor
17,195.0	8,966.0	18,281.1	9,762.5	65.2	66.7	144.27	-8,064.9	-390.9	984.5	847.8	136.62	7.206
17,200.0	8,966.0	18,286.1	9,762.5	65.2	66.7	144.27	-8,069.9	-391.0	984.5	847.8	136.69	7.202
17,290.0	8,966.1	18,376.1	9,762.5	65.9	67.4	144.27	-8,159.9	-391.8	984.4	846.4	138.05	7.131
17,300.0	8,966.1	18,386.1	9,762.5	66.0	67.5	144.27	-8,169.9	-391.8	984.4	846.2	138.20	7.123
17,385.0	8,966.2	18,471.1	9,762.6	66.6	68.1	144.27	-8,254.9	-392.6	984.4	844.9	139.49	7.057
17,400.0	8,966.2	18,486.1	9,762.6	66.7	68.2	144.27	-8,269.9	-392.7	984.4	844.7	139.71	7.046
17,480.0	8,966.3	18,566.1	9,762.7	67.3	68.8	144.27	-8,349.8	-393.4	984.4	843.5	140.92	6.985
17,500.0	8,966.3	18,586.1	9,762.7	67.5	69.0	144.27	-8,369.8	-393.6	984.4	843.1	141.22	6.970
17,575.0	8,966.4	18,661.1	9,762.8	68.0	69.5	144.26	-8,444.8	-394.3	984.3	842.0	142.36	6.915
17,600.0	8,966.5	18,686.1	9,762.8	68.2	69.7	144.26	-8,469.8	-394.5	984.3	841.6	142.74	6.896
17,670.0	8,966.5	18,756.1	9,762.8	68.7	70.2	144.26	-8,539.8	-395.1	984.3	840.5	143.80	6.845
17,700.0	8,966.6	18,786.1	9,762.9	69.0	70.5	144.26	-8,569.8	-395.4	984.3	840.1	144.25	6.824
17,765.0	8,966.7	18,851.1	9,762.9	69.5	71.0	144.26	-8,634.8	-396.0	984.3	839.1	145.24	6.777
17,800.0	8,966.7	18,886.1	9,762.9	69.7	71.2	144.26	-8,669.8	-396.3	984.3	838.5	145.77	6.752
17,860.0	8,966.8	18,946.1	9,763.0	70.2	71.7	144.26	-8,729.8	-396.8	984.3	837.6	146.68	6.710
17,900.0	8,966.8	18,986.1	9,763.0	70.5	72.0	144.26	-8,769.8	-397.2	984.3	837.0	147.28	6.683
17,955.0	8,966.9	19,041.1	9,763.1	70.9	72.4	144.26	-8,824.8	-397.7	984.2	836.1	148.12	6.645
18,000.0	8,966.9	19,086.1	9,763.1	71.2	72.7	144.26	-8,869.8	-398.1	984.2	835.4	148.80	6.614
18,050.0	8,967.0	19,136.1	9,763.1	71.6	73.1	144.26	-8,919.8	-398.5	984.2	834.7	149.56	6.581
18,100.0	8,967.0	19,186.1	9,763.2	72.0	73.5	144.26	-8,969.8	-398.9	984.2	833.9	150.32	6.548
18,145.0	8,967.1	19,231.1	9,763.2	72.3	73.8	144.26	-9,014.8	-399.3	984.2	833.2	151.00	6.518
18,200.0	8,967.1	19,286.1	9,763.2	72.7	74.2	144.26	-9,069.8	-399.8	984.2	832.3	151.83	6.482
18,240.0	8,967.2	19,326.1	9,763.3	73.0	74.5	144.26	-9,109.8	-400.2	984.2	831.7	152.44	6.456
18,300.0	8,967.3	19,386.1	9,763.3	73.4	75.0	144.26	-9,169.8	-400.7	984.1	830.8	153.35	6.417
18,335.0	8,967.3	19,421.1	9,763.4	73.7	75.2	144.26	-9,204.8	-401.0	984.1	830.2	153.88	6.395
18,400.0	8,967.4	19,486.1	9,763.4	74.2	75.7	144.25	-9,269.8	-401.6	984.1	829.2	154.87	6.354
18,430.0	8,967.4	19,516.1	9,763.4	74.4	75.9	144.25	-9,299.8	-401.9	984.1	828.8	155.33	6.336
18,500.0	8,967.5	19,586.1	9,763.5	74.9	76.4	144.25	-9,369.8	-402.5	984.1	827.7	156.39	6.292
18,525.0	8,967.5	19,611.1	9,763.5	75.1	76.6	144.25	-9,394.8	-402.7	984.1	827.3	156.77	6.277
18,600.0	8,967.6	19,686.1	9,763.6	75.7	77.2	144.25	-9,469.8	-403.4	984.1	826.1	157.91	6.232
18,620.0	8,967.6	19,706.1	9,763.6	75.8	77.3	144.25	-9,489.8	-403.6	984.1	825.8	158.22	6.220
18,700.0	8,967.7	19,786.1	9,763.6	76.4	77.9	144.25	-9,569.8	-404.3	984.0	824.6	159.44	6.172
18,715.0	8,967.7	19,801.1	9,763.7	76.6	78.1	144.25	-9,584.8	-404.4	984.0	824.4	159.66	6.163
18,800.0	8,967.8	19,886.1	9,763.7	77.2	78.7	144.25	-9,669.8	-405.2	984.0	823.0	160.96	6.113
18,810.0	8,967.8	19,896.1	9,763.7	77.3	78.8	144.25	-9,679.8	-405.2	984.0	822.9	161.11	6.108
18,900.0	8,967.9	19,986.1	9,763.8	77.9	79.4	144.25	-9,769.8	-406.0	984.0	821.5	162.48	6.056
18,905.0	8,968.0	19,991.1	9,763.8	78.0	79.5	144.25	-9,774.8	-406.1	984.0	821.4	162.56	6.053
19,000.0	8,968.1	20,086.1	9,763.9	78.7	80.2	144.25	-9,869.8	-406.9	983.9	819.9	164.01	5.999
19,095.0	8,968.2	20,181.1	9,764.0	79.4	80.9	144.25	-9,964.8	-407.8	983.9	818.5	165.45	5.947
19,100.0	8,968.2	20,186.1	9,764.0	79.4	80.9	144.25	-9,969.8	-407.8	983.9	818.4	165.53	5.944
19,190.0	8,968.3	20,276.1	9,764.0	80.1	81.6	144.25	-10,059.8	-408.6	983.9	817.0	166.90	5.895
19,200.0	8,968.3	20,286.1	9,764.0	80.2	81.7	144.25	-10,069.8	-408.7	983.9	816.8	167.06	5.890
19,285.0	8,968.4	20,371.1	9,764.1	80.8	82.3	144.24	-10,154.8	-409.5	983.9	815.5	168.35	5.844
19,300.0	8,968.4	20,386.1	9,764.1	80.9	82.5	144.24	-10,169.8	-409.6	983.9	815.3	168.58	5.836
19,380.0	8,968.5	20,466.1	9,764.2	81.5	83.1	144.24	-10,249.8	-410.3	983.8	814.0	169.80	5.794
19,400.0	8,968.5	20,486.1	9,764.2	81.7	83.2	144.24	-10,269.8	-410.5	983.8	813.7	170.11	5.784
19,475.0	8,968.6	20,561.1	9,764.3	82.3	83.8	144.24	-10,344.8	-411.1	983.8	812.6	171.25	5.745
19,500.0	8,968.6	20,586.1	9,764.3	82.4	84.0	144.24	-10,369.8	-411.4	983.8	812.2	171.63	5.732
19,570.0	8,968.7	20,656.1	9,764.3	83.0	84.5	144.24	-10,439.8	-412.0	983.8	811.1	172.70	5.696
19,600.0	8,968.7	20,686.1	9,764.4	83.2	84.7	144.24	-10,469.8	-412.3	983.8	810.6	173.16	5.681
19,665.0	8,968.8	20,751.1	9,764.4	83.7	85.2	144.24	-10,534.8	-412.8	983.8	809.6	174.15	5.649

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 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		
19,700.0	8,968.9	20,786.1	9,764.4	83.9	85.5	144.24	-10,569.8	-413.1	983.7	809.1	174.69	5.631		
19,760.0	8,968.9	20,846.1	9,764.5	84.4	85.9	144.24	-10,629.8	-413.7	983.7	808.1	175.61	5.602		
19,800.0	8,969.0	20,886.1	9,764.5	84.7	86.2	144.24	-10,669.8	-414.0	983.7	807.5	176.22	5.582		
19,855.0	8,969.0	20,941.1	9,764.6	85.1	86.6	144.24	-10,724.8	-414.5	983.7	806.6	177.06	5.556		
19,900.0	8,969.1	20,986.1	9,764.6	85.5	87.0	144.24	-10,769.8	-414.9	983.7	805.9	177.75	5.534		
19,950.0	8,969.1	21,036.1	9,764.6	85.8	87.3	144.24	-10,819.7	-415.4	983.7	805.2	178.51	5.510		
20,000.0	8,969.2	21,086.1	9,764.7	86.2	87.7	144.24	-10,869.7	-415.8	983.7	804.4	179.28	5.487		
20,045.0	8,969.3	21,131.1	9,764.7	86.5	88.1	144.24	-10,914.7	-416.2	983.6	803.7	179.96	5.466		
20,100.0	8,969.3	21,186.1	9,764.8	87.0	88.5	144.23	-10,969.7	-416.7	983.6	802.8	180.80	5.440		
20,140.0	8,969.4	21,226.1	9,764.8	87.3	88.8	144.23	-11,009.7	-417.0	983.6	802.2	181.42	5.422		
20,200.0	8,969.4	21,286.1	9,764.8	87.7	89.2	144.23	-11,069.7	-417.6	983.6	801.3	182.34	5.394		
20,235.0	8,969.5	21,321.1	9,764.9	88.0	89.5	144.23	-11,104.7	-417.9	983.6	800.7	182.87	5.379		
20,300.0	8,969.5	21,386.1	9,764.9	88.5	90.0	144.23	-11,169.7	-418.5	983.6	799.7	183.87	5.349		
20,330.0	8,969.6	21,416.1	9,764.9	88.7	90.2	144.23	-11,199.7	-418.7	983.6	799.2	184.33	5.336		
20,400.0	8,969.7	21,486.1	9,765.0	89.2	90.7	144.23	-11,269.7	-419.4	983.5	798.2	185.40	5.305		
20,425.0	8,969.7	21,511.1	9,765.0	89.4	90.9	144.23	-11,294.7	-419.6	983.5	797.8	185.78	5.294		
20,500.0	8,969.8	21,586.1	9,765.1	90.0	91.5	144.23	-11,369.7	-420.2	983.5	796.6	186.93	5.261		
20,520.0	8,969.8	21,606.1	9,765.1	90.1	91.6	144.23	-11,389.7	-420.4	983.5	796.3	187.23	5.253		
20,600.0	8,969.9	21,686.1	9,765.1	90.7	92.2	144.23	-11,469.7	-421.1	983.5	795.0	188.46	5.219		
20,615.0	8,969.9	21,701.1	9,765.2	90.8	92.3	144.23	-11,484.7	-421.3	983.5	794.8	188.69	5.212		
20,700.0	8,970.0	21,786.1	9,765.2	91.5	93.0	144.23	-11,569.7	-422.0	983.5	793.5	189.99	5.176		
20,710.0	8,970.0	21,796.1	9,765.2	91.5	93.1	144.23	-11,579.7	-422.1	983.5	793.3	190.15	5.172		
20,800.0	8,970.1	21,886.1	9,765.3	92.2	93.7	144.23	-11,669.7	-422.9	983.4	791.9	191.53	5.135		
20,805.0	8,970.1	21,891.1	9,765.3	92.3	93.8	144.23	-11,674.7	-422.9	983.4	791.8	191.60	5.133		
20,900.0	8,970.2	21,986.1	9,765.4	93.0	94.5	144.22	-11,769.7	-423.8	983.4	790.3	193.06	5.094		
20,995.0	8,970.3	22,081.1	9,765.5	93.7	95.2	144.22	-11,864.7	-424.6	983.4	788.9	194.52	5.056		
21,000.0	8,970.3	22,086.1	9,765.5	93.7	95.3	144.22	-11,869.7	-424.7	983.4	788.8	194.59	5.054		
21,090.0	8,970.4	22,176.1	9,765.5	94.4	95.9	144.22	-11,959.7	-425.5	983.4	787.4	195.97	5.018		
21,100.0	8,970.5	22,186.1	9,765.5	94.5	96.0	144.22	-11,969.7	-425.6	983.4	787.2	196.13	5.014		
21,185.0	8,970.6	22,271.1	9,765.6	95.1	96.6	144.22	-12,054.7	-426.3	983.3	785.9	197.43	4.981		
21,200.0	8,970.6	22,286.1	9,765.6	95.2	96.8	144.22	-12,069.7	-426.5	983.3	785.7	197.66	4.975		
21,280.0	8,970.7	22,366.1	9,765.7	95.8	97.4	144.22	-12,149.7	-427.2	983.3	784.4	198.89	4.944		
21,300.0	8,970.7	22,386.1	9,765.7	96.0	97.5	144.22	-12,169.7	-427.3	983.3	784.1	199.19	4.936		
21,375.0	8,970.8	22,461.1	9,765.8	96.6	98.1	144.22	-12,244.7	-428.0	983.3	782.9	200.35	4.908		
21,400.0	8,970.8	22,486.1	9,765.8	96.8	98.3	144.22	-12,269.7	-428.2	983.3	782.5	200.73	4.898		
21,470.0	8,970.9	22,556.1	9,765.8	97.3	98.8	144.22	-12,339.7	-428.8	983.2	781.4	201.80	4.872		
21,500.0	8,970.9	22,586.1	9,765.9	97.5	99.0	144.22	-12,369.7	-429.1	983.2	781.0	202.26	4.861		
21,565.0	8,971.0	22,651.1	9,765.9	98.0	99.5	144.22	-12,434.7	-429.7	983.2	780.0	203.26	4.837		
21,600.0	8,971.0	22,686.1	9,765.9	98.3	99.8	144.22	-12,469.7	-430.0	983.2	779.4	203.80	4.824		
21,660.0	8,971.1	22,746.1	9,766.0	98.7	100.2	144.22	-12,529.7	-430.5	983.2	778.5	204.72	4.803		
21,700.0	8,971.1	22,786.1	9,766.0	99.0	100.5	144.22	-12,569.7	-430.9	983.2	777.8	205.34	4.788		
21,755.0	8,971.2	22,841.1	9,766.1	99.4	101.0	144.21	-12,624.7	-431.4	983.2	777.0	206.18	4.768		
21,800.0	8,971.3	22,886.1	9,766.1	99.8	101.3	144.21	-12,669.7	-431.8	983.2	776.3	206.87	4.752		
21,850.0	8,971.3	22,936.1	9,766.1	100.2	101.7	144.21	-12,719.7	-432.2	983.1	775.5	207.64	4.735		
21,900.0	8,971.4	22,986.1	9,766.2	100.5	102.0	144.21	-12,769.7	-432.7	983.1	774.7	208.41	4.717		
21,945.0	8,971.4	23,031.1	9,766.2	100.9	102.4	144.21	-12,814.7	-433.1	983.1	774.0	209.10	4.702		
22,000.0	8,971.5	23,086.1	9,766.3	101.3	102.8	144.21	-12,869.7	-433.5	983.1	773.2	209.95	4.683		
22,040.0	8,971.5	23,126.1	9,766.3	101.6	103.1	144.21	-12,909.7	-433.9	983.1	772.5	210.56	4.669		
22,100.0	8,971.6	23,186.1	9,766.3	102.0	103.6	144.21	-12,969.7	-434.4	983.1	771.6	211.48	4.648		
22,135.0	8,971.6	23,221.1	9,766.4	102.3	103.8	144.21	-13,004.7	-434.7	983.1	771.0	212.02	4.637		
22,200.0	8,971.7	23,286.1	9,766.4	102.8	104.3	144.21	-13,069.7	-435.3	983.0	770.0	213.02	4.615		

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #805H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9240-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Rule Assigned: Distance			Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
22,230.0	8,971.8	23,316.1	9,766.4	103.0	104.5	144.21	-13,099.7	-435.6	983.0	769.5	213.48	4.605		
22,300.0	8,971.8	23,386.1	9,766.5	103.6	105.1	144.21	-13,169.7	-436.2	983.0	768.5	214.56	4.582		
22,325.0	8,971.9	23,411.1	9,766.5	103.7	105.3	144.21	-13,194.7	-436.4	983.0	768.1	214.94	4.573		
22,400.0	8,971.9	23,486.1	9,766.6	104.3	105.8	144.21	-13,269.7	-437.1	983.0	766.9	216.10	4.549		
22,420.0	8,972.0	23,506.1	9,766.6	104.5	106.0	144.21	-13,289.7	-437.3	983.0	766.6	216.40	4.542		
22,500.0	8,972.1	23,586.1	9,766.7	105.1	106.6	144.21	-13,369.6	-438.0	983.0	765.3	217.63	4.517		
22,515.0	8,972.1	23,601.1	9,766.7	105.2	106.7	144.21	-13,384.6	-438.1	983.0	765.1	217.86	4.512		
22,600.0	8,972.2	23,686.1	9,766.7	105.8	107.3	144.20	-13,469.6	-438.9	982.9	763.8	219.17	4.485		
22,610.0	8,972.2	23,696.1	9,766.7	105.9	107.4	144.20	-13,479.6	-439.0	982.9	763.6	219.33	4.482		
22,700.0	8,972.3	23,786.1	9,766.8	106.6	108.1	144.20	-13,569.6	-439.8	982.9	762.2	220.71	4.453		
22,705.0	8,972.3	23,791.1	9,766.8	106.6	108.1	144.20	-13,574.6	-439.8	982.9	762.1	220.79	4.452		
22,800.0	8,972.4	23,886.1	9,766.9	107.3	108.9	144.20	-13,669.6	-440.6	982.9	760.6	222.25	4.422		
22,895.0	8,972.5	23,981.1	9,767.0	108.1	109.6	144.20	-13,764.6	-441.5	982.8	759.1	223.71	4.393		
22,900.0	8,972.5	23,986.1	9,767.0	108.1	109.6	144.20	-13,769.6	-441.5	982.8	759.1	223.79	4.392		
22,990.0	8,972.6	24,076.1	9,767.0	108.8	110.3	144.20	-13,859.6	-442.3	982.8	757.6	225.17	4.365		
23,000.0	8,972.6	24,086.1	9,767.1	108.8	110.4	144.20	-13,869.6	-442.4	982.8	757.5	225.33	4.362		
23,085.0	8,972.7	24,171.1	9,767.1	109.5	111.0	144.20	-13,954.6	-443.2	982.8	756.2	226.64	4.336		
23,100.0	8,972.7	24,186.1	9,767.1	109.6	111.1	144.20	-13,969.6	-443.3	982.8	755.9	226.87	4.332		
23,180.0	8,972.8	24,266.1	9,767.2	110.2	111.7	144.20	-14,049.6	-444.0	982.8	754.7	228.10	4.308		
23,200.0	8,972.9	24,286.1	9,767.2	110.4	111.9	144.20	-14,069.6	-444.2	982.8	754.3	228.41	4.303		
23,275.0	8,972.9	24,361.1	9,767.3	110.9	112.4	144.20	-14,144.6	-444.9	982.7	753.2	229.56	4.281		
23,300.0	8,973.0	24,386.1	9,767.3	111.1	112.6	144.20	-14,169.6	-445.1	982.7	752.8	229.95	4.274		
23,370.0	8,973.1	24,456.1	9,767.3	111.6	113.2	144.19	-14,239.6	-445.7	982.7	751.7	231.03	4.254		
23,400.0	8,973.1	24,486.1	9,767.4	111.9	113.4	144.19	-14,269.6	-446.0	982.7	751.2	231.49	4.245		
23,465.0	8,973.2	24,551.1	9,767.4	112.4	113.9	144.19	-14,334.6	-446.5	982.7	750.2	232.49	4.227		
23,500.0	8,973.2	24,586.1	9,767.4	112.6	114.2	144.19	-14,369.6	-446.9	982.7	749.6	233.03	4.217		
23,560.0	8,973.3	24,646.1	9,767.5	113.1	114.6	144.19	-14,429.6	-447.4	982.7	748.7	233.95	4.200		
23,600.0	8,973.3	24,686.1	9,767.5	113.4	114.9	144.19	-14,469.6	-447.7	982.6	748.1	234.57	4.189		
23,655.0	8,973.4	24,741.1	9,767.6	113.8	115.3	144.19	-14,524.6	-448.2	982.6	747.2	235.42	4.174		
23,700.0	8,973.4	24,786.1	9,767.6	114.1	115.7	144.19	-14,569.6	-448.6	982.6	746.5	236.11	4.162		
23,750.0	8,973.5	24,836.1	9,767.6	114.5	116.0	144.19	-14,619.6	-449.1	982.6	745.7	236.88	4.148		
23,800.0	8,973.5	24,886.1	9,767.7	114.9	116.4	144.19	-14,669.6	-449.5	982.6	744.9	237.65	4.135		
23,845.0	8,973.6	24,931.1	9,767.7	115.2	116.8	144.19	-14,714.6	-449.9	982.6	744.2	238.35	4.122		
23,900.0	8,973.7	24,986.1	9,767.8	115.7	117.2	144.19	-14,769.6	-450.4	982.6	743.4	239.19	4.108		
23,940.0	8,973.7	25,026.1	9,767.8	116.0	117.5	144.19	-14,809.6	-450.8	982.5	742.7	239.81	4.097		
24,000.0	8,973.8	25,086.1	9,767.8	116.4	117.9	144.19	-14,869.6	-451.3	982.5	741.8	240.74	4.081		
24,035.0	8,973.8	25,121.1	9,767.9	116.7	118.2	144.19	-14,904.6	-451.6	982.5	741.2	241.27	4.072		
24,067.0	8,973.9	25,153.1	9,767.9	116.9	118.4	144.19	-14,936.6	-451.9	982.5	740.7	241.77	4.064		
24,100.0	8,973.9	25,186.1	9,767.9	117.2	118.7	144.19	-14,969.6	-452.2	982.5	740.2	242.27	4.055		
24,130.0	8,973.9	25,216.1	9,767.9	117.4	118.9	144.19	-14,999.6	-452.4	982.5	739.8	242.74	4.048		
24,197.0	8,974.0	25,283.1	9,768.0	117.9	119.4	144.18	-15,066.6	-453.0	982.5	738.7	243.77	4.030		
24,197.9	8,974.0	25,284.1	9,768.0	117.9	119.4	144.18	-15,067.5	-453.1	982.5	738.7	243.78	4.030 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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 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	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	-31.35	148.4	-90.4	173.8				
95.0	95.0	92.5	92.5	3.0	3.0	-31.35	148.4	-90.4	173.8	167.7	6.04	28.792	
100.0	100.0	97.5	97.5	3.0	3.0	-31.35	148.4	-90.4	173.8	167.7	6.04	28.768	
190.0	190.0	187.5	187.5	3.1	3.1	-31.35	148.4	-90.4	173.8	167.5	6.25	27.791	
200.0	200.0	197.5	197.5	3.1	3.1	-31.35	148.4	-90.4	173.8	167.5	6.29	27.639	
285.0	285.0	282.5	282.5	3.3	3.2	-31.35	148.4	-90.4	173.8	167.3	6.49	26.762	
300.0	300.0	297.5	297.5	3.3	3.3	-31.35	148.4	-90.4	173.8	167.2	6.53	26.593	
380.0	380.0	377.5	377.5	3.4	3.4	-31.35	148.4	-90.4	173.8	167.0	6.73	25.836	
400.0	400.0	397.5	397.5	3.4	3.4	-31.35	148.4	-90.4	173.8	167.0	6.78	25.640	
475.0	475.0	472.5	472.5	3.5	3.5	-31.35	148.4	-90.4	173.8	166.8	6.95	24.986	
500.0	500.0	497.5	497.5	3.5	3.5	-31.35	148.4	-90.4	173.8	166.7	7.02	24.765	
570.0	570.0	567.5	567.5	3.6	3.6	-31.35	148.4	-90.4	173.8	166.6	7.18	24.200	
600.0	600.0	597.5	597.5	3.6	3.6	-31.35	148.4	-90.4	173.8	166.5	7.25	23.956	
665.0	665.0	662.5	662.5	3.7	3.7	-31.35	148.4	-90.4	173.8	166.4	7.40	23.469	
700.0	700.0	697.5	697.5	3.8	3.8	-31.35	148.4	-90.4	173.8	166.3	7.49	23.207	
760.0	760.0	757.5	757.5	3.8	3.8	-31.35	148.4	-90.4	173.8	166.1	7.63	22.788	
800.0	800.0	797.5	797.5	3.9	3.9	-31.35	148.4	-90.4	173.8	166.0	7.72	22.511	
855.0	855.0	852.5	852.5	4.0	3.9	-31.35	148.4	-90.4	173.8	165.9	7.84	22.152	
900.0	900.0	897.5	897.5	4.0	4.0	-31.35	148.4	-90.4	173.8	165.8	7.95	21.861	
950.0	950.0	947.5	947.5	4.1	4.1	-31.35	148.4	-90.4	173.8	165.7	8.06	21.555	
1,000.0	1,000.0	997.5	997.5	4.1	4.1	-31.35	148.4	-90.4	173.8	165.6	8.18	21.252	
1,045.0	1,045.0	1,042.5	1,042.5	4.2	4.2	-31.35	148.4	-90.4	173.8	165.5	8.28	20.994	
1,100.0	1,100.0	1,097.5	1,097.5	4.2	4.2	-31.35	148.4	-90.4	173.8	165.4	8.40	20.681	
1,140.0	1,140.0	1,137.5	1,137.5	4.3	4.3	-31.35	148.4	-90.4	173.8	165.3	8.49	20.465	
1,200.0	1,200.0	1,197.5	1,197.5	4.4	4.4	-31.35	148.4	-90.4	173.8	165.1	8.63	20.144	
1,235.0	1,235.0	1,232.5	1,232.5	4.4	4.4	-31.35	148.4	-90.4	173.8	165.1	8.70	19.965	
1,300.0	1,300.0	1,297.5	1,297.5	4.5	4.5	-31.35	148.4	-90.4	173.8	164.9	8.85	19.638	
1,330.0	1,330.0	1,327.5	1,327.5	4.5	4.5	-31.35	148.4	-90.4	173.8	164.9	8.91	19.493	
1,400.0	1,400.0	1,397.5	1,397.5	4.6	4.6	-31.35	148.4	-90.4	173.8	164.7	9.07	19.159	
1,425.0	1,425.0	1,422.5	1,422.5	4.6	4.6	-31.35	148.4	-90.4	173.8	164.6	9.12	19.044	
1,500.0	1,500.0	1,497.5	1,497.5	4.7	4.7	-31.35	148.4	-90.4	173.8	164.5	9.29	18.706 CC	
1,520.0	1,520.0	1,516.7	1,516.7	4.8	4.7	-65.67	148.4	-90.4	173.8	164.4	9.34	18.600 ES	
1,600.0	1,600.0	1,592.8	1,592.8	4.9	4.8	-66.41	149.0	-91.8	174.4	164.8	9.54	18.269	
1,615.0	1,615.0	1,607.1	1,607.0	4.9	4.9	-66.66	149.2	-92.2	174.6	165.0	9.60	18.189	
1,700.0	1,699.8	1,687.6	1,687.5	5.1	5.0	-68.69	150.9	-96.0	176.5	166.6	9.91	17.816	
1,710.0	1,709.8	1,697.1	1,696.9	5.2	5.0	-69.00	151.1	-96.6	176.8	166.9	9.94	17.783	
1,800.0	1,799.5	1,781.7	1,781.2	5.4	5.2	-72.32	154.0	-103.1	180.7	170.4	10.26	17.610	
1,805.0	1,804.4	1,786.4	1,785.9	5.4	5.3	-72.54	154.2	-103.5	181.0	170.7	10.28	17.606 SF	
1,900.0	1,898.7	1,874.6	1,873.6	5.7	5.5	-77.01	158.3	-112.8	187.9	177.3	10.62	17.699	
1,950.1	1,948.2	1,920.7	1,919.1	5.8	5.7	-79.63	160.8	-118.6	192.9	182.2	10.76	17.938	
1,995.0	1,992.6	1,961.6	1,959.6	5.9	5.8	-82.10	163.3	-124.4	198.4	187.6	10.89	18.230	
2,000.0	1,997.5	1,966.2	1,964.1	5.9	5.8	-82.36	163.6	-125.0	199.1	188.2	10.90	18.267	
2,090.0	2,086.4	2,047.6	2,044.2	6.1	6.1	-86.97	169.4	-138.2	213.4	202.1	11.25	18.963	
2,100.0	2,096.3	2,056.5	2,053.0	6.1	6.1	-87.45	170.1	-139.7	215.2	203.9	11.29	19.057	
2,185.0	2,180.3	2,132.3	2,127.2	6.4	6.4	-91.27	176.4	-154.0	232.6	220.9	11.64	19.973	
2,200.0	2,195.1	2,145.6	2,140.2	6.4	6.4	-91.89	177.6	-156.7	236.0	224.3	11.71	20.155	
2,280.0	2,274.1	2,217.3	2,209.8	6.7	6.7	-95.00	184.4	-172.1	255.7	243.6	12.05	21.209	
2,300.0	2,293.8	2,236.3	2,228.3	6.7	6.7	-95.75	186.2	-176.3	260.8	248.7	12.15	21.476	
2,375.0	2,367.9	2,307.7	2,297.5	7.0	7.0	-98.34	193.2	-192.1	280.6	268.1	12.50	22.457	
2,400.0	2,392.6	2,331.5	2,320.6	7.0	7.0	-99.12	195.5	-197.4	287.3	274.7	12.62	22.772	
2,470.0	2,461.7	2,398.1	2,385.2	7.3	7.2	-101.13	202.0	-212.1	306.3	293.4	12.96	23.632	

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 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	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)		
2,500.0	2,491.4	2,426.6	2,412.9	7.4	7.3	-101.92	204.7	-218.5	314.6	301.5	13.12	23.986
2,565.0	2,555.6	2,488.4	2,472.9	7.6	7.6	-103.50	210.8	-232.2	332.6	319.2	13.45	24.728
2,600.0	2,590.1	2,521.7	2,505.2	7.7	7.7	-104.28	214.0	-239.5	342.4	328.8	13.64	25.112
2,660.0	2,649.4	2,578.8	2,560.6	7.9	7.9	-105.52	219.6	-252.2	359.4	345.4	13.96	25.746
2,700.0	2,688.9	2,616.9	2,597.6	8.1	8.0	-106.29	223.3	-260.6	370.8	356.6	14.18	26.152
2,755.0	2,743.2	2,669.2	2,648.3	8.2	8.2	-107.27	228.4	-272.2	386.5	372.0	14.48	26.687
2,800.0	2,787.7	2,712.0	2,689.9	8.4	8.4	-108.01	232.6	-281.7	399.5	384.7	14.74	27.109
2,850.0	2,837.1	2,759.6	2,736.0	8.6	8.6	-108.79	237.2	-292.2	413.9	398.9	15.02	27.557
2,900.0	2,886.5	2,807.2	2,782.2	8.8	8.8	-109.51	241.8	-302.7	428.4	413.1	15.31	27.988
2,945.0	2,930.9	2,850.0	2,823.7	8.9	8.9	-110.12	246.0	-312.2	441.6	426.0	15.57	28.358
3,000.0	2,985.2	2,902.3	2,874.5	9.2	9.1	-110.82	251.1	-323.8	457.7	441.8	15.89	28.794
3,040.0	3,024.7	2,940.4	2,911.4	9.3	9.3	-111.29	254.8	-332.2	469.4	453.3	16.13	29.096
3,100.0	3,084.0	2,997.5	2,966.8	9.5	9.5	-111.97	260.4	-344.9	487.1	470.6	16.49	29.534
3,135.0	3,118.6	3,030.8	2,999.1	9.7	9.7	-112.34	263.6	-352.2	497.4	480.7	16.70	29.777
3,200.0	3,182.8	3,092.6	3,059.1	9.9	9.9	-112.99	269.6	-365.9	516.7	499.6	17.10	30.213
3,230.0	3,212.4	3,121.1	3,086.8	10.0	10.0	-113.27	272.4	-372.3	525.6	508.3	17.29	30.405
3,300.0	3,281.5	3,187.7	3,151.5	10.3	10.3	-113.90	278.9	-387.0	546.4	528.6	17.72	30.837
3,325.0	3,306.2	3,211.5	3,174.5	10.4	10.4	-114.11	281.2	-392.3	553.8	535.9	17.87	30.985
3,400.0	3,380.3	3,282.9	3,243.8	10.7	10.7	-114.72	288.2	-408.1	576.2	557.8	18.34	31.411
3,420.0	3,400.0	3,301.9	3,262.2	10.8	10.8	-114.87	290.0	-412.3	582.2	563.7	18.47	31.520
3,500.0	3,479.1	3,378.0	3,336.1	11.1	11.1	-115.45	297.4	-429.1	606.1	587.1	18.98	31.940
3,515.0	3,493.9	3,392.3	3,349.9	11.2	11.2	-115.56	298.8	-432.3	610.6	591.5	19.07	32.016
3,600.0	3,577.8	3,473.2	3,428.4	11.5	11.5	-116.12	306.7	-450.2	636.1	616.5	19.62	32.428
3,610.0	3,587.7	3,482.7	3,437.6	11.5	11.6	-116.19	307.6	-452.3	639.1	619.4	19.68	32.474
3,700.0	3,676.6	3,568.3	3,520.7	11.9	12.0	-116.73	316.0	-471.3	666.2	645.9	20.26	32.878
3,705.0	3,681.5	3,573.1	3,525.3	11.9	12.0	-116.76	316.4	-472.3	667.7	647.4	20.29	32.900
3,800.0	3,775.4	3,663.4	3,613.0	12.3	12.4	-117.29	325.2	-492.3	696.3	675.4	20.91	33.296
3,895.0	3,869.2	3,753.8	3,700.7	12.7	12.8	-117.77	334.0	-512.4	725.0	703.5	21.54	33.664
3,900.0	3,874.1	3,758.6	3,705.3	12.7	12.8	-117.80	334.5	-513.4	726.5	704.9	21.57	33.683
3,990.0	3,963.0	3,844.2	3,788.4	13.1	13.2	-118.22	342.8	-532.4	753.7	731.6	22.16	34.007
4,000.0	3,972.9	3,853.7	3,797.7	13.1	13.2	-118.26	343.8	-534.5	756.7	734.5	22.23	34.042
4,085.0	4,056.9	3,934.6	3,876.1	13.5	13.6	-118.64	351.7	-552.4	782.5	759.7	22.79	34.327
4,100.0	4,071.7	3,948.9	3,890.0	13.6	13.7	-118.70	353.0	-555.6	787.0	764.1	22.89	34.376
4,180.0	4,150.7	4,025.0	3,963.8	13.9	14.0	-119.02	360.5	-572.4	811.3	787.8	23.43	34.626
4,200.0	4,170.4	4,044.0	3,982.3	14.0	14.1	-119.10	362.3	-576.6	817.3	793.8	23.56	34.687
4,210.2	4,180.5	4,053.7	3,991.7	14.0	14.1	-119.14	363.3	-578.8	820.4	796.8	23.63	34.727
4,275.0	4,244.6	4,115.4	4,051.6	14.3	14.4	-119.54	369.3	-592.4	839.9	815.9	24.05	34.921
4,300.0	4,269.3	4,139.3	4,074.7	14.4	14.5	-119.67	371.6	-597.7	847.4	823.2	24.22	34.990
4,370.0	4,338.7	4,206.2	4,139.6	14.7	14.8	-120.02	378.1	-612.5	867.9	843.2	24.68	35.165
4,400.0	4,368.4	4,234.9	4,167.5	14.8	15.0	-120.14	380.9	-618.9	876.6	851.7	24.88	35.232
4,465.0	4,433.0	4,297.2	4,227.9	15.0	15.2	-120.38	387.0	-632.7	895.1	869.8	25.31	35.371
4,500.0	4,467.8	4,330.8	4,260.5	15.2	15.4	-120.49	390.2	-640.1	905.0	879.4	25.54	35.439
4,560.0	4,527.5	4,388.4	4,316.5	15.4	15.7	-120.65	395.9	-652.9	921.6	895.7	25.93	35.548
4,600.0	4,567.3	4,426.9	4,353.8	15.6	15.8	-120.73	399.6	-661.4	932.5	906.3	26.18	35.613
4,655.0	4,622.1	4,479.9	4,405.2	15.8	16.1	-120.81	404.8	-673.1	947.3	920.8	26.54	35.699
4,700.0	4,667.0	4,523.2	4,447.3	15.9	16.3	-120.86	409.0	-682.7	959.2	932.4	26.82	35.760
4,750.0	4,716.9	4,571.5	4,494.1	16.1	16.5	-120.89	413.7	-693.4	972.2	945.1	27.14	35.826
4,800.0	4,766.8	4,619.8	4,541.0	16.3	16.7	-120.90	418.4	-704.1	985.0	957.6	27.45	35.884
4,845.0	4,811.7	4,663.3	4,583.2	16.4	16.9	-120.90	422.6	-713.8	996.4	968.6	27.73	35.935
4,900.0	4,866.7	4,716.5	4,634.8	16.6	17.2	-120.86	427.8	-725.5	1,010.0	981.9	28.06	35.989
4,940.0	4,906.6	4,755.3	4,672.4	16.7	17.4	-120.82	431.6	-734.1	1,019.7	991.4	28.30	36.029

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 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		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	
5,000.0	4,966.6	4,813.4	4,728.8	16.9	17.6	-120.74	437.3	-747.0	1,034.1	1,005.5	28.66	36.081	
5,035.0	5,001.6	4,847.3	4,761.7	17.0	17.8	-120.67	440.6	-754.5	1,042.4	1,013.5	28.86	36.118	
5,100.0	5,066.6	4,910.4	4,822.9	17.1	18.1	-120.54	446.7	-768.5	1,057.4	1,028.2	29.23	36.178	
5,110.4	5,077.0	4,920.4	4,832.7	17.1	18.2	-86.22	447.7	-770.7	1,059.8	1,030.5	29.28	36.199	
5,130.0	5,096.6	4,939.5	4,851.2	17.1	18.2	-86.13	449.6	-774.9	1,064.3	1,034.9	29.37	36.231	
5,200.0	5,166.6	5,007.4	4,917.1	17.2	18.6	-85.82	456.2	-789.9	1,080.3	1,050.5	29.72	36.344	
5,225.0	5,191.6	5,031.7	4,940.6	17.2	18.7	-85.72	458.5	-795.3	1,086.0	1,056.1	29.85	36.381	
5,300.0	5,266.6	5,104.4	5,011.2	17.2	19.0	-85.41	465.6	-811.4	1,103.2	1,072.9	30.23	36.488	
5,320.0	5,286.6	5,123.8	5,030.0	17.2	19.1	-85.32	467.5	-815.7	1,107.8	1,077.4	30.34	36.515	
5,400.0	5,366.6	5,201.5	5,105.4	17.3	19.5	-85.00	475.1	-832.9	1,126.1	1,095.4	30.75	36.623	
5,415.0	5,381.6	5,216.0	5,119.5	17.3	19.5	-84.94	476.5	-836.1	1,129.6	1,098.7	30.83	36.643	
5,500.0	5,466.6	5,298.5	5,199.5	17.3	19.9	-84.62	484.5	-854.4	1,149.1	1,117.9	31.27	36.751	
5,510.0	5,476.6	5,308.2	5,208.9	17.4	20.0	-84.58	485.5	-856.6	1,151.4	1,120.1	31.32	36.764	
5,600.0	5,566.6	5,395.5	5,293.7	17.4	20.4	-84.24	494.0	-875.9	1,172.2	1,140.4	31.79	36.872	
5,605.0	5,571.6	5,400.4	5,298.4	17.4	20.4	-84.23	494.5	-877.0	1,173.3	1,141.5	31.82	36.878	
5,700.0	5,666.6	5,492.5	5,387.8	17.5	20.9	-83.89	503.4	-897.4	1,195.3	1,162.9	32.32	36.987	
5,795.0	5,761.6	5,584.7	5,477.2	17.5	21.3	-83.56	512.4	-917.8	1,217.2	1,184.4	32.82	37.091	
5,800.0	5,766.6	5,589.6	5,482.0	17.5	21.3	-83.54	512.9	-918.9	1,218.4	1,185.6	32.84	37.096	
5,890.0	5,856.6	5,676.9	5,566.7	17.6	21.7	-83.25	521.4	-938.2	1,239.3	1,205.9	33.32	37.190	
5,900.0	5,866.6	5,686.6	5,576.1	17.6	21.8	-83.21	522.3	-940.3	1,241.6	1,208.2	33.38	37.200	
5,985.0	5,951.6	5,769.1	5,656.1	17.6	22.2	-82.94	530.4	-958.6	1,261.3	1,227.5	33.83	37.284	
6,000.0	5,966.6	5,783.6	5,670.2	17.6	22.2	-82.89	531.8	-961.8	1,264.8	1,230.9	33.91	37.298	
6,080.0	6,046.6	5,861.3	5,745.6	17.7	22.6	-82.65	539.4	-979.0	1,283.4	1,249.1	34.34	37.374	
6,100.0	6,066.6	5,880.7	5,764.4	17.7	22.7	-82.59	541.2	-983.3	1,288.0	1,253.6	34.45	37.392	
6,175.0	6,141.6	5,953.4	5,835.0	17.7	23.1	-82.36	548.3	-999.4	1,305.5	1,270.7	34.85	37.459	
6,200.0	6,166.6	5,977.7	5,858.5	17.7	23.2	-82.29	550.7	-1,004.8	1,311.3	1,276.3	34.99	37.481	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design:	FLAMING SNAIL FED COM PROJECT - LEONARDO BKL FEDERAL COM #1 - OWB - AWP											Offset Site Error:	0.0 usft
Survey Program:	250-INC-ONLY											Offset Well Error:	10.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Rule Assigned:		Distance		Minimum Separation		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation Factor		
10,100.0	8,957.9	8,906.6	8,900.9	20.7	261.9	-89.91	-1,248.2	1,536.4	1,317.9	1,039.8	278.14	4.738	
10,165.0	8,958.0	8,907.0	8,901.4	20.8	261.9	-89.93	-1,248.2	1,536.4	1,306.6	1,027.9	278.70	4.688	
10,200.0	8,958.0	8,907.3	8,901.6	20.9	261.9	-89.94	-1,248.2	1,536.4	1,301.8	1,022.8	279.00	4.666	
10,260.0	8,958.1	8,907.8	8,902.1	21.0	261.9	-89.96	-1,248.2	1,536.4	1,295.8	1,016.2	279.55	4.635	
10,300.0	8,958.1	8,908.1	8,902.4	21.1	261.9	-89.97	-1,248.2	1,536.4	1,293.3	1,013.4	279.91	4.620	
10,355.0	8,958.2	8,908.5	8,902.9	21.2	261.9	-89.99	-1,248.2	1,536.4	1,291.9	1,011.4	280.42	4.607	
10,360.8	8,958.2	8,908.6	8,902.9	21.2	261.9	-90.00	-1,248.2	1,536.4	1,291.9	1,011.4	280.47	4.606 CC, ES	
10,400.0	8,958.2	8,908.9	8,903.2	21.3	261.9	-90.01	-1,248.2	1,536.4	1,292.4	1,011.6	280.83	4.602 SF	
10,450.0	8,958.3	8,909.3	8,903.6	21.4	262.0	-90.03	-1,248.2	1,536.4	1,294.9	1,013.6	281.29	4.603	
10,500.0	8,958.4	8,909.8	8,904.1	21.5	262.0	-90.05	-1,248.2	1,536.4	1,299.3	1,017.6	281.74	4.612	
10,545.0	8,958.4	8,910.1	8,904.5	21.7	262.0	-90.07	-1,248.2	1,536.4	1,304.9	1,022.8	282.14	4.625	
10,600.0	8,958.5	8,910.6	8,905.0	21.8	262.0	-90.09	-1,248.2	1,536.4	1,313.8	1,031.2	282.61	4.649	

CC - Min centre to center distance or covergent 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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 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	-36.73	1,021.9	-762.5	1,275.5				
95.0	95.0	57.3	57.3	3.0	3.1	3.1	-36.72	1,022.1	-762.4	1,275.1	1,269.1	6.03	211.393	
100.0	100.0	62.0	62.0	3.0	3.2	3.2	-36.72	1,022.1	-762.4	1,275.1	1,269.1	6.04	211.208	
190.0	190.0	146.7	146.7	3.1	3.9	3.9	-36.68	1,022.9	-762.0	1,275.6	1,269.4	6.22	205.073	
200.0	200.0	156.2	156.1	3.1	4.0	4.0	-36.68	1,023.0	-762.0	1,275.7	1,269.4	6.25	204.125	
285.0	285.0	236.2	236.2	3.3	4.9	4.9	-36.61	1,024.5	-761.3	1,276.5	1,270.0	6.48	197.026	
300.0	300.0	250.3	250.3	3.3	5.1	5.1	-36.60	1,024.8	-761.1	1,276.6	1,270.1	6.53	195.621	
380.0	380.0	325.6	325.5	3.4	6.2	6.2	-36.51	1,026.8	-760.2	1,277.8	1,271.0	6.78	188.340	
400.0	400.0	344.4	344.3	3.4	6.4	6.4	-36.49	1,027.4	-759.9	1,278.1	1,271.2	6.86	186.435	
475.0	475.0	414.9	414.8	3.5	7.5	7.5	-36.38	1,029.9	-758.7	1,279.5	1,272.3	7.13	179.515	
500.0	500.0	442.0	441.8	3.5	7.8	7.8	-36.33	1,031.0	-758.2	1,280.0	1,272.8	7.22	177.358	
570.0	570.0	539.1	538.9	3.6	8.3	8.3	-36.24	1,032.9	-757.0	1,280.6	1,273.1	7.43	172.320	
570.2	570.2	539.4	539.2	3.6	8.3	8.3	-36.24	1,032.9	-757.0	1,280.6	1,273.1	7.43	172.305	
600.0	600.0	565.2	565.0	3.6	8.3	8.3	-36.22	1,033.1	-756.8	1,280.6	1,273.0	7.58	168.994	
665.0	665.0	631.6	631.4	3.7	8.6	8.6	-36.20	1,033.4	-756.3	1,280.6	1,272.8	7.86	162.969	
700.0	700.0	667.4	667.2	3.8	8.7	8.7	-36.19	1,033.6	-756.1	1,280.6	1,272.6	8.01	159.884	
760.0	760.0	727.7	727.5	3.8	8.9	8.9	-36.17	1,033.7	-755.8	1,280.5	1,272.2	8.25	155.138	
800.0	800.0	766.3	766.1	3.9	9.0	9.0	-36.17	1,033.7	-755.6	1,280.5	1,272.1	8.40	152.485	
809.7	809.7	775.6	775.5	3.9	9.0	9.0	-36.16	1,033.7	-755.6	1,280.5	1,272.0	8.43	151.868	
855.0	855.0	819.4	819.2	4.0	9.1	9.1	-36.16	1,033.9	-755.5	1,280.5	1,271.9	8.59	149.033	
900.0	900.0	862.8	862.6	4.0	9.2	9.2	-36.15	1,034.0	-755.4	1,280.6	1,271.8	8.75	146.316	
950.0	950.0	911.5	911.3	4.1	9.3	9.3	-36.14	1,034.2	-755.4	1,280.7	1,271.8	8.92	143.586	
1,000.0	1,000.0	961.4	961.2	4.1	9.5	9.5	-36.14	1,034.4	-755.4	1,280.9	1,271.8	9.07	141.213	
1,045.0	1,045.0	1,006.3	1,006.1	4.2	9.6	9.6	-36.13	1,034.7	-755.4	1,281.1	1,271.9	9.21	139.097	
1,100.0	1,100.0	1,061.1	1,060.9	4.2	9.8	9.8	-36.13	1,034.9	-755.4	1,281.3	1,271.9	9.39	136.504	
1,140.0	1,140.0	1,100.8	1,100.6	4.3	9.9	9.9	-36.12	1,035.1	-755.4	1,281.4	1,271.9	9.52	134.646	
1,200.0	1,200.0	1,160.1	1,159.9	4.4	10.1	10.1	-36.11	1,035.5	-755.2	1,281.7	1,272.0	9.72	131.919	
1,235.0	1,235.0	1,194.7	1,194.5	4.4	10.2	10.2	-36.09	1,035.8	-755.1	1,281.9	1,272.0	9.83	130.383	
1,300.0	1,300.0	1,258.8	1,258.6	4.5	10.4	10.4	-36.05	1,036.6	-754.5	1,282.2	1,272.1	10.05	127.604	
1,330.0	1,330.0	1,291.7	1,291.5	4.5	10.5	10.5	-36.02	1,037.1	-754.2	1,282.3	1,272.2	10.20	125.735	
1,400.0	1,400.0	1,375.5	1,375.3	4.6	10.7	10.7	-35.94	1,038.1	-752.6	1,282.2	1,271.6	10.65	120.404	
1,425.0	1,425.0	1,405.4	1,405.2	4.6	10.8	10.8	-35.91	1,038.3	-751.8	1,282.0	1,271.2	10.81	118.639	
1,500.0	1,500.0	1,485.8	1,485.5	4.7	11.0	11.0	-35.80	1,038.7	-749.2	1,280.8	1,269.6	11.23	114.044	
1,520.0	1,520.0	1,502.5	1,502.2	4.8	11.0	11.0	-70.09	1,038.7	-748.7	1,280.5	1,269.2	11.33	112.995	
1,600.0	1,600.0	1,572.5	1,572.2	4.9	11.1	11.1	-70.15	1,038.5	-748.0	1,279.3	1,267.5	11.74	108.940	
1,615.0	1,615.0	1,588.7	1,588.4	4.9	11.1	11.1	-70.19	1,038.4	-748.0	1,279.0	1,267.1	11.87	107.757	
1,700.0	1,699.8	1,680.2	1,679.9	5.1	11.3	11.3	-70.43	1,038.0	-747.3	1,276.7	1,264.1	12.58	101.505	
1,710.0	1,709.8	1,691.0	1,690.6	5.2	11.3	11.3	-70.46	1,037.9	-747.1	1,276.4	1,263.7	12.66	100.809	
1,800.0	1,799.5	1,786.1	1,785.8	5.4	11.5	11.5	-70.85	1,037.4	-745.6	1,272.4	1,259.0	13.37	95.159	
1,805.0	1,804.4	1,791.3	1,791.0	5.4	11.5	11.5	-70.88	1,037.3	-745.5	1,272.1	1,258.7	13.41	94.881	
1,900.0	1,898.7	1,889.0	1,888.7	5.7	11.6	11.6	-71.43	1,036.9	-743.2	1,266.7	1,252.6	14.09	89.916	
1,950.1	1,948.2	1,940.4	1,940.1	5.8	11.7	11.7	-71.78	1,036.6	-741.8	1,263.3	1,248.9	14.39	87.764	
1,995.0	1,992.6	1,984.3	1,983.9	5.9	11.8	11.8	-72.03	1,036.5	-740.6	1,260.2	1,245.6	14.58	86.456	
2,000.0	1,997.5	1,989.2	1,988.8	5.9	11.8	11.8	-72.06	1,036.5	-740.4	1,259.8	1,245.2	14.60	86.312	
2,090.0	2,086.4	2,076.9	2,076.5	6.1	12.0	12.0	-72.57	1,036.3	-737.8	1,253.7	1,238.7	15.02	83.474	
2,100.0	2,096.3	2,086.7	2,086.2	6.1	12.0	12.0	-72.62	1,036.3	-737.5	1,253.0	1,238.0	15.06	83.180	
2,185.0	2,180.3	2,170.5	2,170.0	6.4	12.2	12.2	-73.11	1,036.2	-735.0	1,247.4	1,231.9	15.49	80.511	
2,200.0	2,195.1	2,185.6	2,185.2	6.4	12.2	12.2	-73.20	1,036.2	-734.6	1,246.5	1,230.9	15.58	79.999	
2,280.0	2,274.1	2,266.3	2,265.8	6.7	12.4	12.4	-73.68	1,036.1	-732.1	1,241.2	1,225.2	16.04	77.374	
2,300.0	2,293.8	2,286.5	2,286.0	6.7	12.5	12.5	-73.80	1,036.0	-731.5	1,239.9	1,223.7	16.16	76.746	
2,375.0	2,367.9	2,360.6	2,360.0	7.0	12.6	12.6	-74.24	1,035.8	-729.3	1,235.0	1,218.4	16.61	74.334	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 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				Rule Assigned:								Offset Well Error: 3.0 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
2,400.0	2,392.6	2,384.7	2,384.1	7.0	12.7	-74.39	1,035.7	-728.5	1,233.4	1,216.6	16.78	73.520	
2,470.0	2,461.7	2,452.3	2,451.7	7.3	12.9	-74.79	1,035.7	-726.5	1,229.0	1,211.8	17.22	71.351	
2,500.0	2,491.4	2,481.3	2,480.7	7.4	13.0	-74.96	1,035.7	-725.6	1,227.2	1,209.8	17.41	70.473	
2,565.0	2,555.6	2,539.1	2,538.5	7.6	13.1	-75.31	1,035.8	-723.9	1,223.4	1,205.6	17.76	68.877	
2,600.0	2,590.1	2,566.9	2,566.3	7.7	13.2	-75.49	1,035.9	-723.3	1,221.6	1,203.7	17.91	68.208	
2,660.0	2,649.4	2,614.6	2,613.9	7.9	13.4	-75.80	1,036.1	-722.9	1,219.0	1,200.9	18.16	67.121	
2,700.0	2,688.9	2,646.3	2,645.6	8.1	13.4	-76.03	1,036.2	-722.9	1,217.7	1,199.3	18.33	66.441	
2,755.0	2,743.2	2,706.0	2,705.3	8.2	13.6	-76.47	1,036.5	-723.7	1,216.4	1,197.8	18.60	65.391	
2,800.0	2,787.7	2,730.4	2,729.8	8.4	13.7	-76.66	1,036.7	-724.2	1,215.4	1,196.6	18.84	64.503	
2,850.0	2,837.1	2,780.3	2,779.6	8.6	13.8	-77.05	1,037.0	-725.4	1,214.6	1,195.3	19.26	63.052	
2,900.0	2,886.5	2,830.2	2,829.5	8.8	13.9	-77.44	1,037.2	-726.5	1,213.8	1,194.1	19.68	61.689	
2,945.0	2,930.9	2,875.1	2,874.4	8.9	14.0	-77.79	1,037.4	-727.5	1,213.1	1,193.1	20.04	60.528	
3,000.0	2,985.2	2,929.6	2,928.9	9.2	14.2	-78.22	1,037.6	-728.7	1,212.3	1,191.9	20.41	59.394	
3,040.0	3,024.7	2,969.1	2,968.3	9.3	14.3	-78.53	1,037.8	-729.6	1,211.8	1,191.2	20.64	58.706	
3,100.0	3,084.0	3,028.3	3,027.6	9.5	14.4	-79.00	1,037.9	-731.0	1,211.1	1,190.1	20.98	57.728	
3,135.0	3,118.6	3,062.8	3,062.1	9.7	14.5	-79.27	1,038.1	-731.8	1,210.7	1,189.5	21.17	57.184	
3,200.0	3,182.8	3,127.7	3,127.0	9.9	14.6	-79.79	1,038.3	-733.2	1,210.0	1,188.5	21.48	56.320	
3,230.0	3,212.4	3,157.9	3,157.1	10.0	14.7	-80.03	1,038.3	-733.9	1,209.7	1,188.1	21.62	55.962	
3,300.0	3,281.5	3,219.1	3,218.3	10.3	14.9	-80.53	1,038.3	-735.6	1,209.2	1,187.3	21.94	55.118	
3,310.1	3,291.5	3,227.2	3,226.4	10.3	14.9	-80.60	1,038.2	-735.9	1,209.2	1,187.2	21.99	54.999 CC	
3,325.0	3,306.2	3,239.1	3,238.3	10.4	15.0	-80.71	1,038.1	-736.5	1,209.2	1,187.2	22.05	54.829 ES	
3,400.0	3,380.3	3,300.7	3,299.8	10.7	15.3	-81.34	1,036.8	-740.6	1,209.9	1,187.5	22.42	53.969	
3,420.0	3,400.0	3,318.2	3,317.2	10.8	15.4	-81.53	1,036.2	-742.0	1,210.2	1,187.7	22.53	53.721	
3,500.0	3,479.1	3,389.8	3,388.4	11.1	15.8	-82.39	1,033.0	-749.2	1,212.0	1,189.1	22.97	52.770	
3,515.0	3,493.9	3,405.0	3,403.5	11.2	15.9	-82.58	1,032.2	-750.8	1,212.4	1,189.4	23.05	52.596	
3,600.0	3,577.8	3,491.3	3,489.2	11.5	16.4	-83.64	1,027.7	-759.8	1,214.7	1,191.2	23.53	51.629	
3,610.0	3,587.7	3,501.5	3,499.3	11.5	16.4	-83.77	1,027.2	-760.9	1,215.0	1,191.4	23.58	51.517	
3,700.0	3,676.6	3,592.2	3,589.4	11.9	16.8	-84.88	1,022.4	-770.0	1,217.6	1,193.5	24.10	50.519	
3,705.0	3,681.5	3,597.1	3,594.3	11.9	16.9	-84.94	1,022.1	-770.5	1,217.8	1,193.6	24.13	50.465	
3,800.0	3,775.4	3,691.1	3,687.7	12.3	17.2	-86.07	1,017.0	-779.7	1,220.8	1,196.2	24.64	49.550	
3,895.0	3,869.2	3,789.4	3,785.3	12.7	17.6	-87.26	1,011.6	-789.2	1,224.1	1,198.9	25.19	48.599	
3,900.0	3,874.1	3,795.0	3,790.9	12.7	17.6	-87.33	1,011.2	-789.8	1,224.2	1,199.0	25.22	48.539	
3,990.0	3,963.0	3,895.9	3,891.1	13.1	18.1	-88.61	1,003.7	-799.6	1,227.0	1,201.1	25.86	47.440	
4,000.0	3,972.9	3,907.1	3,902.1	13.1	18.1	-88.75	1,002.8	-800.7	1,227.2	1,201.3	25.94	47.316	
4,085.0	4,056.9	3,996.2	3,990.4	13.5	18.6	-89.94	994.4	-809.4	1,229.4	1,202.9	26.52	46.366	
4,100.0	4,071.7	4,011.3	4,005.4	13.6	18.6	-90.14	993.0	-810.8	1,229.8	1,203.2	26.61	46.213	
4,180.0	4,150.7	4,092.0	4,085.3	13.9	19.0	-91.21	985.4	-818.3	1,232.0	1,204.9	27.13	45.409	
4,200.0	4,170.4	4,112.2	4,105.4	14.0	19.1	-91.47	983.5	-820.1	1,232.6	1,205.4	27.26	45.211	
4,210.2	4,180.5	4,122.5	4,115.6	14.0	19.2	-91.60	982.6	-821.0	1,232.9	1,205.6	27.32	45.124	
4,275.0	4,244.6	4,188.7	4,181.3	14.3	19.4	-92.46	976.5	-826.7	1,234.9	1,207.2	27.69	44.594	
4,300.0	4,269.3	4,214.4	4,206.8	14.4	19.5	-92.78	974.2	-828.8	1,235.6	1,207.8	27.83	44.400	
4,370.0	4,338.7	4,286.7	4,278.6	14.7	19.8	-93.63	967.7	-834.5	1,237.7	1,209.5	28.22	43.855	
4,400.0	4,368.4	4,317.8	4,309.5	14.8	19.9	-93.98	965.0	-836.8	1,238.6	1,210.2	28.39	43.623	
4,465.0	4,433.0	4,368.3	4,359.7	15.0	20.1	-94.54	960.7	-840.7	1,240.8	1,212.0	28.76	43.146	
4,500.0	4,467.8	4,394.1	4,385.3	15.2	20.3	-94.82	958.6	-842.9	1,242.3	1,213.4	28.95	42.908	
4,560.0	4,527.5	4,438.3	4,429.2	15.4	20.5	-95.29	955.2	-847.1	1,245.6	1,216.3	29.28	42.535	
4,600.0	4,567.3	4,467.8	4,458.4	15.6	20.6	-95.59	953.0	-850.1	1,248.2	1,218.7	29.50	42.307	
4,655.0	4,622.1	4,518.0	4,508.2	15.8	20.9	-96.08	949.5	-855.8	1,252.3	1,222.4	29.87	41.931	
4,700.0	4,667.0	4,551.1	4,540.9	15.9	21.0	-96.40	947.3	-859.7	1,255.9	1,225.8	30.10	41.719	
4,750.0	4,716.9	4,602.9	4,592.3	16.1	21.3	-96.87	943.8	-865.7	1,259.9	1,229.5	30.47	41.350	
4,800.0	4,766.8	4,654.8	4,643.7	16.3	21.6	-97.31	940.3	-871.5	1,263.9	1,233.0	30.84	40.983	

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 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		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		Minimum Separation (usft)	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)		Reference (usft)	Offset (usft)	Between Centres (usft)	Between Ellipses (usft)					
4,845.0	4,811.7	4,701.6	4,690.2	16.4	21.8	-97.68	937.2	-876.7	1,267.3	1,236.1	31.17	40.659	
4,900.0	4,866.7	4,759.7	4,747.7	16.6	22.0	-98.11	933.3	-883.0	1,271.3	1,239.8	31.49	40.372	
4,940.0	4,906.6	4,802.0	4,789.7	16.7	22.2	-98.41	930.4	-887.5	1,274.2	1,242.4	31.71	40.176	
5,000.0	4,966.6	4,865.6	4,852.9	16.9	22.4	-98.82	926.1	-894.0	1,278.2	1,246.1	32.05	39.881	
5,035.0	5,001.6	4,902.8	4,889.8	17.0	22.6	-99.04	923.6	-897.7	1,280.4	1,248.2	32.24	39.713	
5,100.0	5,066.6	4,958.5	4,945.0	17.1	22.8	-99.35	920.0	-903.4	1,284.7	1,252.2	32.53	39.495	
5,110.4	5,077.0	4,967.5	4,954.0	17.1	22.8	-65.11	919.4	-904.3	1,285.4	1,252.9	32.57	39.470	
5,130.0	5,096.6	4,984.5	4,970.9	17.1	22.9	-65.18	918.3	-906.1	1,286.8	1,254.2	32.65	39.413	
5,200.0	5,166.6	5,045.2	5,031.1	17.2	23.1	-65.46	914.6	-912.8	1,292.0	1,259.1	32.94	39.222	
5,225.0	5,191.6	5,066.8	5,052.5	17.2	23.2	-65.55	913.4	-915.2	1,294.0	1,261.0	33.05	39.156	
5,300.0	5,266.6	5,134.6	5,119.8	17.2	23.4	-65.85	909.5	-923.2	1,300.3	1,267.0	33.39	38.949	
5,320.0	5,286.6	5,153.1	5,138.1	17.2	23.5	-65.94	908.5	-925.4	1,302.1	1,268.6	33.48	38.894	
5,400.0	5,366.6	5,227.0	5,211.3	17.3	23.8	-66.27	904.3	-934.5	1,309.3	1,275.5	33.85	38.682	
5,415.0	5,381.6	5,240.8	5,225.0	17.3	23.8	-66.33	903.5	-936.3	1,310.7	1,276.8	33.92	38.645	
5,500.0	5,466.6	5,325.4	5,308.7	17.3	24.2	-66.71	898.7	-947.1	1,318.8	1,284.4	34.34	38.397	
5,510.0	5,476.6	5,336.1	5,319.3	17.4	24.2	-66.76	898.1	-948.4	1,319.7	1,285.3	34.40	38.364 SF	

CC - Min centre to center distance or covergent 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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - WHITE CITY 21 25 27 FEDERAL COM #6H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 430-MWD		Offset		Semi Major Axis		Highside Toolface (°)	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)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	3.0	3.0	9.33	1,037.9	170.5	1,052.4					
95.0	95.0	60.8	60.8	3.0	3.2	9.33	1,037.8	170.5	1,051.8	1,045.6	6.17	170.471		
100.0	100.0	66.0	66.0	3.0	3.2	9.33	1,037.8	170.5	1,051.7	1,045.5	6.20	169.669		
190.0	190.0	159.0	159.0	3.1	4.0	9.34	1,037.5	170.7	1,051.4	1,044.4	7.05	149.074		
200.0	200.0	169.4	169.4	3.1	4.1	9.34	1,037.4	170.7	1,051.4	1,044.2	7.18	146.462		
285.0	285.0	257.3	257.2	3.3	5.2	9.36	1,036.8	170.9	1,050.8	1,042.5	8.32	126.233		
300.0	300.0	272.8	272.8	3.3	5.4	9.36	1,036.6	170.9	1,050.7	1,042.1	8.55	122.941		
380.0	380.0	355.5	355.5	3.4	6.6	9.39	1,035.8	171.3	1,049.9	1,040.1	9.77	107.458		
400.0	400.0	376.1	376.1	3.4	6.9	9.40	1,035.5	171.3	1,049.7	1,039.6	10.09	104.039		
475.0	475.0	453.1	453.1	3.5	7.9	9.43	1,034.5	171.7	1,048.7	1,037.6	11.12	94.279		
500.0	500.0	478.4	478.4	3.5	8.1	9.44	1,034.1	171.9	1,048.4	1,037.0	11.34	92.463		
570.0	570.0	549.1	549.0	3.6	8.6	9.46	1,033.0	172.2	1,047.4	1,035.4	11.94	87.729		
600.0	600.0	579.4	579.3	3.6	8.9	9.48	1,032.5	172.4	1,046.9	1,034.7	12.20	85.821		
665.0	665.0	644.9	644.9	3.7	9.2	9.50	1,031.5	172.7	1,045.9	1,033.3	12.65	82.703		
700.0	700.0	680.1	680.1	3.8	9.4	9.52	1,030.9	172.9	1,045.4	1,032.6	12.80	81.700		
760.0	760.0	740.4	740.4	3.8	9.5	9.55	1,029.9	173.2	1,044.5	1,031.4	13.05	80.045		
800.0	800.0	780.7	780.6	3.9	9.7	9.56	1,029.2	173.4	1,043.8	1,030.6	13.22	78.967		
855.0	855.0	836.1	836.0	4.0	9.8	9.59	1,028.2	173.8	1,042.9	1,029.5	13.45	77.525		
900.0	900.0	881.5	881.4	4.0	10.0	9.61	1,027.4	174.0	1,042.2	1,028.5	13.65	76.368		
950.0	950.0	931.9	931.8	4.1	10.1	9.64	1,026.5	174.3	1,041.3	1,027.5	13.86	75.125		
1,000.0	1,000.0	982.3	982.2	4.1	10.3	9.66	1,025.5	174.6	1,040.4	1,026.4	14.08	73.911		
1,045.0	1,045.0	1,027.6	1,027.5	4.2	10.5	9.69	1,024.7	174.9	1,039.6	1,025.4	14.27	72.851		
1,100.0	1,100.0	1,082.9	1,082.7	4.2	10.6	9.71	1,023.6	175.2	1,038.6	1,024.1	14.51	71.585		
1,140.0	1,140.0	1,123.1	1,123.0	4.3	10.8	9.73	1,022.8	175.3	1,037.9	1,023.2	14.68	70.694		
1,200.0	1,200.0	1,183.5	1,183.3	4.4	11.0	9.75	1,021.6	175.6	1,036.8	1,021.9	14.94	69.394		
1,235.0	1,235.0	1,219.0	1,218.8	4.4	11.1	9.76	1,020.9	175.7	1,036.1	1,021.0	15.08	68.694		
1,300.0	1,300.0	1,284.9	1,284.7	4.5	11.3	9.78	1,019.6	175.7	1,034.8	1,019.5	15.35	67.421		
1,330.0	1,330.0	1,315.3	1,315.1	4.5	11.4	9.79	1,019.0	175.8	1,034.2	1,018.8	15.47	66.850		
1,400.0	1,400.0	1,386.9	1,386.7	4.6	11.6	9.80	1,017.4	175.7	1,032.8	1,017.0	15.76	65.533		
1,425.0	1,425.0	1,413.2	1,413.0	4.6	11.7	9.80	1,016.8	175.7	1,032.2	1,016.3	15.87	65.060		
1,500.0	1,500.0	1,492.1	1,491.9	4.7	12.0	9.83	1,014.8	175.8	1,030.3	1,014.1	16.18	63.662		
1,520.0	1,520.0	1,513.2	1,512.9	4.8	12.0	-24.47	1,014.2	175.8	1,029.7	1,013.4	16.28	63.252		
1,600.0	1,600.0	1,586.8	1,586.5	4.9	12.2	-24.50	1,012.0	176.1	1,025.9	1,009.3	16.61	61.764		
1,615.0	1,615.0	1,598.1	1,597.9	4.9	12.3	-24.51	1,011.8	176.1	1,025.1	1,008.4	16.66	61.513		
1,700.0	1,699.8	1,664.2	1,664.0	5.1	12.4	-24.63	1,011.2	176.1	1,020.1	1,003.1	16.98	60.089		
1,710.0	1,709.8	1,674.0	1,673.7	5.2	12.4	-24.66	1,011.2	176.1	1,019.4	1,002.4	17.02	59.904		
1,800.0	1,799.5	1,761.3	1,761.0	5.4	12.5	-24.91	1,011.3	175.9	1,012.3	994.9	17.39	58.204		
1,805.0	1,804.4	1,766.2	1,765.9	5.4	12.5	-24.93	1,011.4	175.9	1,011.8	994.4	17.41	58.106		
1,900.0	1,898.7	1,858.3	1,858.1	5.7	12.7	-25.29	1,011.7	176.0	1,001.5	983.7	17.82	56.204		
1,950.1	1,948.2	1,907.7	1,907.5	5.8	12.8	-25.52	1,011.9	176.1	995.1	977.1	17.98	55.339		
1,995.0	1,992.6	1,952.0	1,951.7	5.9	12.9	-25.69	1,012.1	176.2	988.9	970.8	18.13	54.560		
2,000.0	1,997.5	1,956.9	1,956.6	5.9	12.9	-25.71	1,012.1	176.3	988.2	970.1	18.14	54.474		
2,090.0	2,086.4	2,045.6	2,045.3	6.1	13.2	-26.05	1,012.5	176.6	976.0	957.5	18.51	52.739		
2,100.0	2,096.3	2,055.5	2,055.3	6.1	13.2	-26.09	1,012.5	176.6	974.6	956.1	18.55	52.548		
2,185.0	2,180.3	2,139.9	2,139.6	6.4	13.4	-26.42	1,012.9	176.9	963.1	944.2	18.91	50.927		
2,200.0	2,195.1	2,154.8	2,154.5	6.4	13.4	-26.48	1,012.9	177.0	961.0	942.1	18.97	50.648		
2,280.0	2,274.1	2,234.2	2,233.9	6.7	13.6	-26.81	1,013.3	177.2	950.2	930.8	19.33	49.165		
2,300.0	2,293.8	2,254.0	2,253.8	6.7	13.7	-26.89	1,013.3	177.2	947.4	928.0	19.42	48.798		
2,375.0	2,367.9	2,328.4	2,328.1	7.0	13.9	-27.21	1,013.6	177.4	937.3	917.5	19.76	47.435		
2,400.0	2,392.6	2,353.2	2,352.9	7.0	13.9	-27.31	1,013.7	177.5	933.9	914.0	19.87	46.992		
2,470.0	2,461.7	2,422.6	2,422.3	7.3	14.1	-27.61	1,013.9	177.7	924.4	904.2	20.20	45.763		

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - WHITE CITY 21 25 27 FEDERAL COM #6H - OWB - AWP													Offset Site Error: 0.0 usft	
Survey Program: 430-MWD		Offset		Semi Major Axis		Offset Wellbore Centre			Rule Assigned:				Offset Well Error: 3.0 usft	
Measured 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	2,491.4	2,452.5	2,452.2	7.4	14.2	-27.74	1,014.0	177.8	920.3	900.0	20.34	45.243		
2,565.0	2,555.6	2,517.3	2,517.1	7.6	14.3	-28.03	1,014.2	178.1	911.5	890.8	20.66	44.127		
2,600.0	2,590.1	2,552.2	2,552.0	7.7	14.4	-28.18	1,014.2	178.2	906.7	885.9	20.83	43.539		
2,660.0	2,649.4	2,612.1	2,611.8	7.9	14.5	-28.45	1,014.3	178.4	898.5	877.4	21.12	42.544		
2,700.0	2,688.9	2,651.6	2,651.3	8.1	14.6	-28.63	1,014.4	178.6	893.1	871.8	21.32	41.890		
2,755.0	2,743.2	2,706.0	2,705.7	8.2	14.8	-28.89	1,014.4	178.8	885.6	864.0	21.60	41.007		
2,800.0	2,787.7	2,750.4	2,750.1	8.4	14.9	-29.11	1,014.5	178.8	879.5	857.7	21.82	40.302		
2,850.0	2,837.1	2,799.8	2,799.5	8.6	15.0	-29.35	1,014.6	178.9	872.7	850.7	22.08	39.535		
2,900.0	2,886.5	2,849.0	2,848.7	8.8	15.2	-29.61	1,014.7	178.9	866.0	843.6	22.38	38.687		
2,945.0	2,930.9	2,893.2	2,892.9	8.9	15.4	-29.84	1,014.7	178.8	859.9	837.3	22.67	37.931		
3,000.0	2,985.2	2,947.2	2,946.9	9.2	15.5	-30.13	1,014.9	178.8	852.6	829.6	23.02	37.036		
3,040.0	3,024.7	2,986.5	2,986.3	9.3	15.7	-30.34	1,015.0	178.7	847.3	824.0	23.28	36.402		
3,100.0	3,084.0	3,045.8	3,045.5	9.5	15.9	-30.67	1,015.1	178.7	839.3	815.6	23.67	35.457		
3,135.0	3,118.6	3,080.4	3,080.1	9.7	16.0	-30.87	1,015.2	178.6	834.7	810.8	23.90	34.918		
3,200.0	3,182.8	3,144.6	3,144.4	9.9	16.2	-31.23	1,015.4	178.5	826.1	801.8	24.34	33.946		
3,230.0	3,212.4	3,174.3	3,174.0	10.0	16.4	-31.41	1,015.5	178.5	822.2	797.6	24.54	33.509		
3,300.0	3,281.5	3,243.7	3,243.5	10.3	16.6	-31.82	1,015.7	178.4	813.0	788.0	24.99	32.528		
3,325.0	3,306.2	3,268.6	3,268.3	10.4	16.7	-31.97	1,015.7	178.4	809.7	784.6	25.16	32.187		
3,400.0	3,380.3	3,343.0	3,342.7	10.7	17.0	-32.42	1,015.9	178.3	799.9	774.2	25.64	31.193		
3,420.0	3,400.0	3,362.9	3,362.6	10.8	17.0	-32.54	1,015.9	178.3	797.3	771.5	25.77	30.934		
3,500.0	3,479.1	3,442.8	3,442.5	11.1	17.2	-33.04	1,016.0	178.2	786.8	760.6	26.21	30.022		
3,515.0	3,493.9	3,457.8	3,457.5	11.2	17.3	-33.13	1,016.0	178.2	784.8	758.5	26.29	29.858		
3,600.0	3,577.8	3,542.8	3,542.5	11.5	17.5	-33.68	1,016.0	178.2	773.7	746.9	26.73	28.947		
3,610.0	3,587.7	3,552.8	3,552.5	11.5	17.5	-33.74	1,016.0	178.2	772.3	745.6	26.78	28.842		
3,700.0	3,676.6	3,641.5	3,641.2	11.9	17.7	-34.33	1,015.8	178.1	760.5	733.3	27.24	27.919		
3,705.0	3,681.5	3,646.4	3,646.1	11.9	17.7	-34.36	1,015.8	178.1	759.8	732.6	27.26	27.869		
3,800.0	3,775.4	3,739.8	3,739.5	12.3	18.0	-35.01	1,015.8	178.0	747.5	719.8	27.75	26.940		
3,895.0	3,869.2	3,834.1	3,833.8	12.7	18.2	-35.69	1,015.7	177.9	735.3	707.0	28.24	26.040		
3,900.0	3,874.1	3,839.1	3,838.8	12.7	18.2	-35.72	1,015.7	177.9	734.6	706.4	28.26	25.994		
3,990.0	3,963.0	3,928.7	3,928.4	13.1	18.5	-36.39	1,015.5	177.7	723.0	694.3	28.72	25.173		
4,000.0	3,972.9	3,938.6	3,938.3	13.1	18.5	-36.47	1,015.5	177.7	721.8	693.0	28.77	25.083		
4,085.0	4,056.9	4,022.6	4,022.4	13.5	18.7	-37.12	1,015.3	177.5	710.9	681.7	29.20	24.342		
4,100.0	4,071.7	4,037.4	4,037.2	13.6	18.8	-37.24	1,015.3	177.4	708.9	679.7	29.28	24.214		
4,180.0	4,150.7	4,116.4	4,116.2	13.9	19.0	-37.87	1,015.1	177.2	698.8	669.1	29.68	23.548		
4,200.0	4,170.4	4,136.2	4,135.9	14.0	19.1	-38.04	1,015.0	177.1	696.3	666.5	29.77	23.385		
4,210.2	4,180.5	4,146.3	4,146.0	14.0	19.1	-38.12	1,015.0	177.1	695.0	665.2	29.82	23.307		
4,275.0	4,244.6	4,210.4	4,210.1	14.3	19.3	-38.59	1,014.8	176.9	687.1	657.0	30.14	22.801		
4,300.0	4,269.3	4,235.2	4,234.9	14.4	19.4	-38.77	1,014.8	176.8	684.2	654.0	30.26	22.614		
4,370.0	4,338.7	4,304.6	4,304.3	14.7	19.6	-39.24	1,014.6	176.5	676.7	646.1	30.60	22.111		
4,400.0	4,368.4	4,334.3	4,334.1	14.8	19.7	-39.44	1,014.5	176.4	673.7	642.9	30.75	21.905		
4,465.0	4,433.0	4,398.6	4,398.3	15.0	19.9	-39.83	1,014.3	176.2	667.6	636.5	31.08	21.480		
4,500.0	4,467.8	4,433.2	4,432.9	15.2	20.0	-40.03	1,014.2	176.1	664.6	633.3	31.26	21.262		
4,560.0	4,527.5	4,492.6	4,492.3	15.4	20.2	-40.35	1,014.1	175.9	659.8	628.3	31.56	20.910		
4,600.0	4,567.3	4,532.3	4,532.1	15.6	20.3	-40.55	1,014.0	175.8	656.9	625.2	31.76	20.685		
4,655.0	4,622.1	4,587.3	4,587.0	15.8	20.4	-40.81	1,013.9	175.7	653.3	621.3	32.04	20.392		
4,700.0	4,667.0	4,632.2	4,631.9	15.9	20.6	-41.00	1,013.8	175.5	650.7	618.4	32.27	20.164		
4,750.0	4,716.9	4,682.2	4,681.9	16.1	20.7	-41.19	1,013.7	175.4	648.1	615.5	32.52	19.927		
4,800.0	4,766.8	4,731.9	4,731.7	16.3	20.9	-41.37	1,013.6	175.2	645.8	613.0	32.79	19.696		
4,845.0	4,811.7	4,776.4	4,776.1	16.4	21.0	-41.50	1,013.5	175.0	644.0	611.0	33.03	19.498		
4,900.0	4,866.7	4,830.7	4,830.4	16.6	21.1	-41.63	1,013.5	174.9	642.3	608.9	33.33	19.269		
4,940.0	4,906.6	4,870.2	4,869.9	16.7	21.2	-41.71	1,013.5	174.9	641.3	607.8	33.55	19.117		

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - WHITE CITY 21 25 27 FEDERAL COM #6H - OWB - AWP													Offset Site Error: 0.0 usft	
Survey Program: 430-MWD		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Offset Well Error: 3.0 usft		
Measured Reference	Vertical	Measured	Vertical	Reference	Offset	Highside				Distance				Warning
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.0	4,966.6	4,929.9	4,929.6	16.9	21.4	-41.79	1,013.5	174.8	640.3	606.4	33.86	18.909		
5,035.0	5,001.6	4,965.0	4,964.7	17.0	21.5	-41.82	1,013.6	174.8	639.9	605.9	34.02	18.807		
5,100.0	5,066.6	5,045.2	5,044.9	17.1	21.8	-41.84	1,013.1	175.0	639.2	604.8	34.37	18.599		
5,110.4	5,077.0	5,060.3	5,060.0	17.1	21.9	-7.54	1,012.7	175.1	638.9	604.5	34.41	18.566		
5,130.0	5,096.6	5,088.8	5,088.4	17.1	22.1	-7.54	1,011.7	175.3	638.2	603.7	34.50	18.501		
5,200.0	5,166.6	5,199.0	5,198.3	17.2	22.9	-7.50	1,003.5	176.7	632.9	598.0	34.94	18.112		
5,225.0	5,191.6	5,219.8	5,219.1	17.2	22.9	-7.49	1,001.4	177.1	630.4	595.4	35.05	17.985		
5,300.0	5,266.6	5,294.4	5,293.2	17.2	23.1	-7.47	994.0	178.4	622.8	587.5	35.39	17.598		
5,320.0	5,286.6	5,314.1	5,312.8	17.2	23.2	-7.46	992.1	178.7	620.8	585.4	35.47	17.504		
5,400.0	5,366.6	5,392.8	5,391.2	17.3	23.4	-7.46	984.3	179.7	612.8	577.1	35.77	17.134		
5,415.0	5,381.6	5,407.5	5,405.8	17.3	23.5	-7.46	982.8	179.9	611.4	575.5	35.82	17.066		
5,500.0	5,466.6	5,490.4	5,488.3	17.3	23.7	-7.47	974.8	180.9	603.1	566.9	36.14	16.686		
5,510.0	5,476.6	5,500.2	5,498.0	17.4	23.7	-7.47	973.9	181.0	602.1	565.9	36.18	16.642		
5,600.0	5,566.6	5,588.4	5,585.8	17.4	24.0	-7.50	965.6	181.8	593.6	557.1	36.52	16.257		
5,605.0	5,571.6	5,593.3	5,590.8	17.4	24.0	-7.50	965.1	181.8	593.2	556.6	36.53	16.236		
5,700.0	5,666.6	5,687.1	5,684.1	17.5	24.3	-7.54	956.4	182.6	584.3	547.4	36.88	15.842		
5,795.0	5,761.6	5,777.7	5,774.4	17.5	24.5	-7.55	948.4	183.5	575.9	538.6	37.25	15.459		
5,800.0	5,766.6	5,782.3	5,779.0	17.5	24.6	-7.55	948.0	183.5	575.5	538.2	37.27	15.439		
5,890.0	5,856.6	5,866.1	5,862.5	17.6	24.8	-7.58	941.4	184.2	568.3	530.7	37.63	15.105		
5,900.0	5,866.6	5,875.5	5,871.9	17.6	24.8	-7.58	940.7	184.2	567.6	529.9	37.67	15.070		
5,985.0	5,951.6	5,956.8	5,952.9	17.6	25.1	-7.59	935.1	184.9	561.7	523.7	37.99	14.784		
6,000.0	5,966.6	5,973.2	5,969.3	17.6	25.1	-7.59	934.0	185.0	560.7	522.6	38.05	14.737		
6,080.0	6,046.6	6,058.4	6,054.3	17.7	25.4	-7.66	927.6	185.2	554.6	516.3	38.32	14.472		
6,100.0	6,066.6	6,077.3	6,073.1	17.7	25.4	-7.67	926.1	185.3	553.1	514.7	38.40	14.402		
6,175.0	6,141.6	6,147.8	6,143.4	17.7	25.7	-7.72	920.9	185.5	547.6	508.9	38.69	14.152		
6,200.0	6,166.6	6,171.0	6,166.6	17.7	25.7	-7.74	919.3	185.6	545.9	507.1	38.79	14.073		
6,270.0	6,236.6	6,237.0	6,232.5	17.8	25.9	-7.79	915.2	185.6	541.5	502.5	39.06	13.866		
6,300.0	6,266.6	6,269.1	6,264.5	17.8	26.0	-7.83	913.2	185.5	539.7	500.6	39.16	13.783		
6,365.0	6,331.6	6,339.2	6,334.4	17.8	26.2	-7.90	908.3	185.5	535.2	495.8	39.38	13.590		
6,400.0	6,366.6	6,370.4	6,365.5	17.8	26.3	-7.93	906.1	185.5	532.8	493.3	39.53	13.479		
6,460.0	6,426.6	6,427.0	6,422.0	17.9	26.5	-7.99	902.7	185.5	529.2	489.4	39.76	13.309		
6,500.0	6,466.6	6,465.0	6,459.9	17.9	26.6	-8.03	900.6	185.4	527.0	487.1	39.92	13.202		
6,555.0	6,521.6	6,522.3	6,517.2	17.9	26.8	-8.09	897.3	185.4	523.8	483.7	40.12	13.055		
6,600.0	6,566.6	6,565.5	6,560.4	18.0	26.9	-8.12	894.7	185.4	521.2	480.9	40.29	12.934		
6,650.0	6,616.6	6,613.7	6,608.4	18.0	27.1	-8.14	892.0	185.6	518.4	477.9	40.49	12.803		
6,700.0	6,666.6	6,662.7	6,657.3	18.0	27.2	-8.15	889.4	185.9	515.7	475.0	40.68	12.677		
6,745.0	6,711.6	6,706.9	6,701.5	18.0	27.4	-8.16	887.1	186.1	513.4	472.5	40.86	12.566		
6,800.0	6,766.6	6,759.4	6,753.9	18.1	27.5	-8.18	884.6	186.4	510.7	469.7	41.07	12.435		
6,840.0	6,806.6	6,797.5	6,792.0	18.1	27.7	-8.18	882.9	186.5	509.0	467.7	41.23	12.344		
6,900.0	6,866.6	6,850.1	6,844.5	18.1	27.8	-8.20	881.0	186.6	506.8	465.3	41.47	12.221		
6,935.0	6,901.6	6,880.2	6,874.6	18.2	27.9	-8.22	880.3	186.6	506.0	464.4	41.60	12.162		
7,000.0	6,966.6	6,940.8	6,935.2	18.2	28.1	-8.28	879.5	186.2	505.2	463.4	41.85	12.073		
7,030.0	6,996.6	6,970.2	6,964.7	18.2	28.2	-8.31	879.2	185.9	505.0	463.0	41.96	12.034		
7,060.5	7,027.1	6,996.4	6,990.8	18.2	28.3	-8.34	879.0	185.7	504.7	462.7	42.07	11.998 CC, ES		
7,100.0	7,066.6	7,022.0	7,016.4	18.2	28.4	-8.36	879.4	185.4	505.4	463.2	42.19	11.979 SF		
7,125.0	7,091.6	7,033.7	7,028.1	18.3	28.4	-8.37	879.9	185.3	506.4	464.2	42.24	11.989		
7,200.0	7,166.6	7,070.9	7,065.2	18.3	28.6	-8.41	883.1	184.5	513.2	470.9	42.30	12.132		
7,220.0	7,186.6	7,086.0	7,080.1	18.3	28.6	-8.40	885.3	184.2	516.0	473.6	42.35	12.184		
7,300.0	7,266.6	7,117.0	7,110.5	18.4	28.7	-8.35	891.3	183.8	530.9	488.7	42.14	12.598		
7,315.0	7,281.6	7,117.0	7,110.5	18.4	28.7	-8.35	891.3	183.8	534.4	492.5	41.98	12.730		
7,400.0	7,366.6	7,161.1	7,152.9	18.4	28.9	-8.25	903.4	182.9	558.3	516.5	41.74	13.375		

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - WHITE CITY 21 25 27 FEDERAL COM #6H - OWB - AWP													Offset Site Error: 0.0 usft	
Survey Program: 430-MWD				Rule Assigned:									Offset Well Error: 3.0 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		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)	
7,410.0	7,376.6	7,166.0	7,157.5	18.4	28.9	-8.24	905.0	182.8	561.5	519.8	41.70	13.465		
7,500.0	7,466.6	7,213.0	7,201.2	18.5	29.0	-8.12	922.2	181.5	594.1	552.7	41.36	14.363		
7,505.0	7,471.6	7,213.0	7,201.2	18.5	29.0	-8.12	922.2	181.5	596.0	554.8	41.29	14.436		
7,600.0	7,566.6	7,245.0	7,230.0	18.5	29.1	-8.02	936.2	180.5	637.3	596.8	40.51	15.732		
7,695.0	7,661.6	7,288.9	7,268.2	18.6	29.2	-7.84	957.7	179.3	684.2	644.2	40.01	17.102		
7,700.0	7,666.6	7,290.8	7,269.9	18.6	29.2	-7.83	958.7	179.2	686.8	646.8	39.97	17.183		
7,790.0	7,756.6	7,323.4	7,297.0	18.6	29.3	-7.69	976.6	178.3	736.3	697.0	39.33	18.720		
7,800.0	7,766.6	7,326.7	7,299.8	18.7	29.3	-7.67	978.6	178.2	742.1	702.8	39.26	18.902		
7,885.0	7,851.6	7,354.4	7,321.8	18.7	29.4	-7.55	995.2	177.3	793.3	754.6	38.66	20.521		
7,900.0	7,866.6	7,359.1	7,325.5	18.7	29.4	-7.53	998.1	177.2	802.6	764.1	38.55	20.819		
7,980.0	7,946.6	7,383.0	7,343.7	18.8	29.4	-7.42	1,013.6	176.3	854.4	816.4	38.01	22.477		
8,000.0	7,966.6	7,388.7	7,347.9	18.8	29.4	-7.40	1,017.4	176.1	867.7	829.8	37.88	22.907		
8,075.0	8,041.6	7,404.0	7,359.1	18.8	29.5	-7.34	1,027.8	175.4	919.2	881.9	37.29	24.648		
8,100.0	8,066.6	7,415.6	7,367.4	18.8	29.5	-7.29	1,035.9	175.0	936.7	899.5	37.25	25.144		
8,170.0	8,136.6	7,435.0	7,380.8	18.9	29.6	-7.21	1,049.9	174.1	987.1	950.2	36.89	26.755		
8,200.0	8,166.6	7,435.0	7,380.8	18.9	29.6	-7.21	1,049.9	174.1	1,009.1	972.6	36.58	27.589		
8,265.0	8,231.6	7,455.1	7,394.2	18.9	29.6	-7.12	1,064.9	173.3	1,057.8	1,021.4	36.36	29.095		
8,300.0	8,266.6	7,467.0	7,401.9	19.0	29.6	-7.07	1,074.0	172.8	1,084.5	1,048.2	36.27	29.898		
8,360.0	8,326.6	7,467.0	7,401.9	19.0	29.6	-7.07	1,074.0	172.8	1,131.0	1,095.2	35.76	31.630		
8,400.0	8,366.6	7,482.8	7,411.7	19.0	29.7	-6.99	1,086.3	172.2	1,162.3	1,126.6	35.74	32.524		
8,417.4	8,384.0	7,486.1	7,413.7	19.0	29.7	-6.98	1,088.9	172.1	1,176.1	1,140.3	35.79	32.860		
8,450.0	8,416.6	7,499.0	7,421.4	19.0	29.7	171.97	1,099.3	171.6	1,202.7	1,166.9	35.81	33.589		
8,455.0	8,421.6	7,499.0	7,421.4	19.0	29.7	171.87	1,099.3	171.6	1,206.9	1,171.1	35.78	33.734		
8,500.0	8,466.3	7,499.0	7,421.4	19.1	29.7	170.71	1,099.3	171.6	1,245.6	1,210.1	35.54	35.047		
8,550.0	8,515.4	7,499.0	7,421.4	19.1	29.7	168.78	1,099.3	171.6	1,291.0	1,255.7	35.36	36.512		

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 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 3153.2ft @ 3185.2usft

Offset Depths are relative to Offset Datum

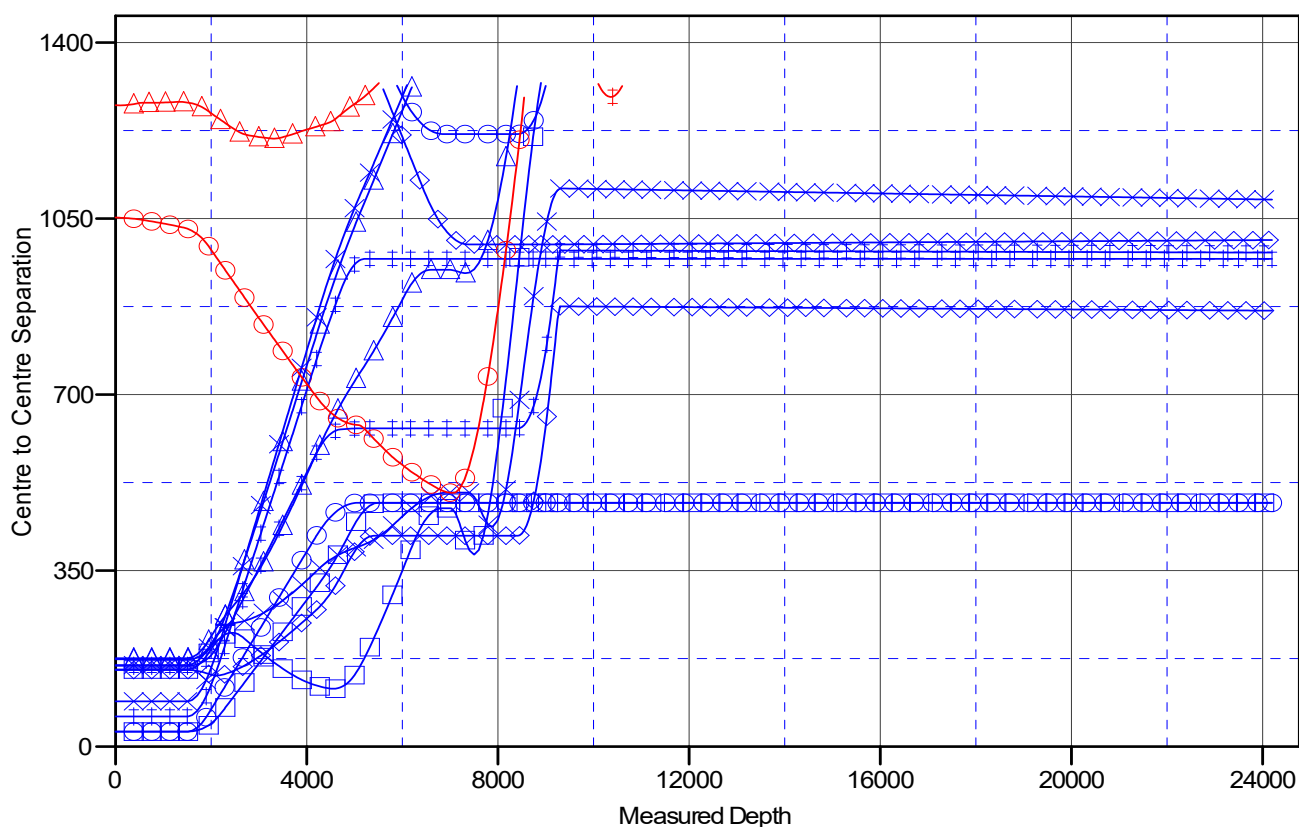
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: FLAMING SNAIL FEDERAL COM #707H

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 #708H, 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 #502H, OWB, PWP0 V0	FLAMING SNAIL FEDERAL COM #710H, OWB, PWP1 V0	LEONARDO BKL FEDERAL COM #1, OWB, AWP V0
FLAMING SNAIL FEDERAL COM #705H, OWB, PWP1 V0	FLAMING SNAIL FEDERAL COM #803H, 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 #707H

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 #707H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #707H	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 #707H		
Well Position	+N/-S	-642.6 usft	Northing:
	+E/-W	1,785.6 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	47,314.35335244

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	179.54

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	8,417.4 PWP1 (OWB)	r.5 MWD+IFR1	OWSG MWD + IFR1 rev.5
3	8,417.4	24,197.0 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 #707H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #707H	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	
1,950.1	9.00	34.30	1,948.2	29.2	19.9	2.00	2.00	0.00	34.30	
4,210.2	9.00	34.30	4,180.5	321.3	219.1	0.00	0.00	0.00	0.00	
5,110.4	0.00	0.00	5,077.0	379.6	258.9	1.00	-1.00	0.00	180.00	
8,417.4	0.00	0.00	8,384.0	379.6	258.9	0.00	0.00	0.00	0.00	
9,316.8	89.93	180.51	8,957.0	-192.7	253.8	10.00	10.00	-19.96	180.51	
24,067.0	89.93	180.51	8,973.9	-14,942.3	123.0	0.00	0.00	0.00	0.00	LTP (FLAMING SNAII
24,197.0	89.93	180.51	8,974.0	-15,072.3	121.8	0.00	0.00	0.00	0.00	PBHL (FLAMING SN#

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #707H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #707H	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	34.30	1,600.0	1.4	1.0	-1.4	2.00	2.00	0.00
1,700.0	4.00	34.30	1,699.8	5.8	3.9	-5.7	2.00	2.00	0.00
1,800.0	6.00	34.30	1,799.5	13.0	8.8	-12.9	2.00	2.00	0.00
1,900.0	8.00	34.30	1,898.7	23.0	15.7	-22.9	2.00	2.00	0.00
1,950.1	9.00	34.30	1,948.2	29.2	19.9	-29.0	2.00	2.00	0.00
Start 2260.1 hold at 1950.1 MD									
2,000.0	9.00	34.30	1,997.5	35.6	24.3	-35.4	0.00	0.00	0.00
2,100.0	9.00	34.30	2,096.3	48.5	33.1	-48.3	0.00	0.00	0.00
2,200.0	9.00	34.30	2,195.1	61.5	41.9	-61.1	0.00	0.00	0.00
2,300.0	9.00	34.30	2,293.8	74.4	50.7	-74.0	0.00	0.00	0.00
2,400.0	9.00	34.30	2,392.6	87.3	59.5	-86.8	0.00	0.00	0.00
2,500.0	9.00	34.30	2,491.4	100.2	68.4	-99.7	0.00	0.00	0.00
2,600.0	9.00	34.30	2,590.1	113.2	77.2	-112.5	0.00	0.00	0.00
2,700.0	9.00	34.30	2,688.9	126.1	86.0	-125.4	0.00	0.00	0.00
2,800.0	9.00	34.30	2,787.7	139.0	94.8	-138.2	0.00	0.00	0.00
2,900.0	9.00	34.30	2,886.5	151.9	103.6	-151.1	0.00	0.00	0.00
3,000.0	9.00	34.30	2,985.2	164.9	112.4	-164.0	0.00	0.00	0.00
3,100.0	9.00	34.30	3,084.0	177.8	121.3	-176.8	0.00	0.00	0.00
3,200.0	9.00	34.30	3,182.8	190.7	130.1	-189.7	0.00	0.00	0.00
3,300.0	9.00	34.30	3,281.5	203.6	138.9	-202.5	0.00	0.00	0.00
3,400.0	9.00	34.30	3,380.3	216.6	147.7	-215.4	0.00	0.00	0.00
3,500.0	9.00	34.30	3,479.1	229.5	156.5	-228.2	0.00	0.00	0.00
3,600.0	9.00	34.30	3,577.8	242.4	165.3	-241.1	0.00	0.00	0.00
3,700.0	9.00	34.30	3,676.6	255.3	174.2	-253.9	0.00	0.00	0.00
3,800.0	9.00	34.30	3,775.4	268.3	183.0	-266.8	0.00	0.00	0.00
3,900.0	9.00	34.30	3,874.1	281.2	191.8	-279.6	0.00	0.00	0.00
4,000.0	9.00	34.30	3,972.9	294.1	200.6	-292.5	0.00	0.00	0.00
4,100.0	9.00	34.30	4,071.7	307.1	209.4	-305.4	0.00	0.00	0.00
4,200.0	9.00	34.30	4,170.4	320.0	218.2	-318.2	0.00	0.00	0.00
4,210.2	9.00	34.30	4,180.5	321.3	219.1	-319.5	0.00	0.00	0.00
Start Drop -1.00									
4,300.0	8.10	34.30	4,269.3	332.3	226.7	-330.5	1.00	-1.00	0.00
4,400.0	7.10	34.30	4,368.4	343.3	234.1	-341.4	1.00	-1.00	0.00
4,500.0	6.10	34.30	4,467.8	352.8	240.6	-350.8	1.00	-1.00	0.00
4,600.0	5.10	34.30	4,567.3	360.8	246.1	-358.8	1.00	-1.00	0.00
4,700.0	4.10	34.30	4,667.0	367.5	250.6	-365.4	1.00	-1.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #707H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #707H	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	3.10	34.30	4,766.8	372.7	254.2	-370.6	1.00	-1.00	0.00
4,900.0	2.10	34.30	4,866.7	376.4	256.7	-374.3	1.00	-1.00	0.00
5,000.0	1.10	34.30	4,966.6	378.7	258.3	-376.6	1.00	-1.00	0.00
5,100.0	0.10	34.30	5,066.6	379.6	258.9	-377.5	1.00	-1.00	0.00
5,110.4	0.00	0.00	5,077.0	379.6	258.9	-377.5	1.00	-1.00	0.00
Start 3307.0 hold at 5110.4 MD									
5,200.0	0.00	0.00	5,166.6	379.6	258.9	-377.5	0.00	0.00	0.00
5,300.0	0.00	0.00	5,266.6	379.6	258.9	-377.5	0.00	0.00	0.00
5,400.0	0.00	0.00	5,366.6	379.6	258.9	-377.5	0.00	0.00	0.00
5,500.0	0.00	0.00	5,466.6	379.6	258.9	-377.5	0.00	0.00	0.00
5,600.0	0.00	0.00	5,566.6	379.6	258.9	-377.5	0.00	0.00	0.00
5,700.0	0.00	0.00	5,666.6	379.6	258.9	-377.5	0.00	0.00	0.00
5,800.0	0.00	0.00	5,766.6	379.6	258.9	-377.5	0.00	0.00	0.00
5,900.0	0.00	0.00	5,866.6	379.6	258.9	-377.5	0.00	0.00	0.00
6,000.0	0.00	0.00	5,966.6	379.6	258.9	-377.5	0.00	0.00	0.00
6,100.0	0.00	0.00	6,066.6	379.6	258.9	-377.5	0.00	0.00	0.00
6,200.0	0.00	0.00	6,166.6	379.6	258.9	-377.5	0.00	0.00	0.00
6,300.0	0.00	0.00	6,266.6	379.6	258.9	-377.5	0.00	0.00	0.00
6,400.0	0.00	0.00	6,366.6	379.6	258.9	-377.5	0.00	0.00	0.00
6,500.0	0.00	0.00	6,466.6	379.6	258.9	-377.5	0.00	0.00	0.00
6,600.0	0.00	0.00	6,566.6	379.6	258.9	-377.5	0.00	0.00	0.00
6,700.0	0.00	0.00	6,666.6	379.6	258.9	-377.5	0.00	0.00	0.00
6,800.0	0.00	0.00	6,766.6	379.6	258.9	-377.5	0.00	0.00	0.00
6,900.0	0.00	0.00	6,866.6	379.6	258.9	-377.5	0.00	0.00	0.00
7,000.0	0.00	0.00	6,966.6	379.6	258.9	-377.5	0.00	0.00	0.00
7,100.0	0.00	0.00	7,066.6	379.6	258.9	-377.5	0.00	0.00	0.00
7,200.0	0.00	0.00	7,166.6	379.6	258.9	-377.5	0.00	0.00	0.00
7,300.0	0.00	0.00	7,266.6	379.6	258.9	-377.5	0.00	0.00	0.00
7,400.0	0.00	0.00	7,366.6	379.6	258.9	-377.5	0.00	0.00	0.00
7,500.0	0.00	0.00	7,466.6	379.6	258.9	-377.5	0.00	0.00	0.00
7,600.0	0.00	0.00	7,566.6	379.6	258.9	-377.5	0.00	0.00	0.00
7,700.0	0.00	0.00	7,666.6	379.6	258.9	-377.5	0.00	0.00	0.00
7,800.0	0.00	0.00	7,766.6	379.6	258.9	-377.5	0.00	0.00	0.00
7,900.0	0.00	0.00	7,866.6	379.6	258.9	-377.5	0.00	0.00	0.00
8,000.0	0.00	0.00	7,966.6	379.6	258.9	-377.5	0.00	0.00	0.00
8,100.0	0.00	0.00	8,066.6	379.6	258.9	-377.5	0.00	0.00	0.00
8,200.0	0.00	0.00	8,166.6	379.6	258.9	-377.5	0.00	0.00	0.00
8,300.0	0.00	0.00	8,266.6	379.6	258.9	-377.5	0.00	0.00	0.00
8,400.0	0.00	0.00	8,366.6	379.6	258.9	-377.5	0.00	0.00	0.00
8,417.4	0.00	0.00	8,384.0	379.6	258.9	-377.5	0.00	0.00	0.00
Start DLS 10.00 TFO 180.51									
8,450.0	3.26	180.51	8,416.6	378.7	258.9	-376.6	10.00	10.00	0.00
8,500.0	8.26	180.51	8,466.3	373.7	258.8	-371.6	10.00	10.00	0.00
8,550.0	13.26	180.51	8,515.4	364.3	258.8	-362.2	10.00	10.00	0.00
8,600.0	18.26	180.51	8,563.5	350.8	258.6	-348.7	10.00	10.00	0.00
8,650.0	23.26	180.51	8,610.3	333.0	258.5	-330.9	10.00	10.00	0.00
8,700.0	28.26	180.51	8,655.3	311.3	258.3	-309.2	10.00	10.00	0.00
8,750.0	33.26	180.51	8,698.3	285.8	258.1	-283.7	10.00	10.00	0.00
8,800.0	38.26	180.51	8,738.8	256.6	257.8	-254.5	10.00	10.00	0.00
8,850.0	43.26	180.51	8,776.7	223.9	257.5	-221.8	10.00	10.00	0.00
8,900.0	48.26	180.51	8,811.6	188.1	257.2	-186.0	10.00	10.00	0.00
8,950.0	53.26	180.51	8,843.2	149.4	256.9	-147.3	10.00	10.00	0.00
9,000.0	58.26	180.51	8,871.3	108.1	256.5	-106.0	10.00	10.00	0.00
9,050.0	63.26	180.51	8,895.7	64.5	256.1	-62.4	10.00	10.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #707H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #707H	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)	
9,100.0	68.26	180.51	8,916.2	18.9	255.7	-16.8	10.00	10.00	0.00	
9,150.0	73.26	180.51	8,932.7	-28.3	255.3	30.3	10.00	10.00	0.00	
9,200.0	78.26	180.51	8,945.0	-76.7	254.9	78.8	10.00	10.00	0.00	
9,250.0	83.26	180.51	8,953.0	-126.1	254.4	128.1	10.00	10.00	0.00	
9,300.0	88.26	180.51	8,956.7	-175.9	254.0	178.0	10.00	10.00	0.00	
9,316.8	89.93	180.51	8,957.0	-192.7	253.8	194.7	10.00	10.00	0.00	
Start 14750.2 hold at 9316.8 MD										
9,400.0	89.93	180.51	8,957.1	-275.9	253.1	277.9	0.00	0.00	0.00	
9,500.0	89.93	180.51	8,957.2	-375.9	252.2	377.9	0.00	0.00	0.00	
9,600.0	89.93	180.51	8,957.3	-475.9	251.3	477.9	0.00	0.00	0.00	
9,700.0	89.93	180.51	8,957.4	-575.9	250.4	577.9	0.00	0.00	0.00	
9,800.0	89.93	180.51	8,957.6	-675.9	249.5	677.9	0.00	0.00	0.00	
9,900.0	89.93	180.51	8,957.7	-775.9	248.7	777.9	0.00	0.00	0.00	
10,000.0	89.93	180.51	8,957.8	-875.9	247.8	877.9	0.00	0.00	0.00	
10,100.0	89.93	180.51	8,957.9	-975.9	246.9	977.8	0.00	0.00	0.00	
10,200.0	89.93	180.51	8,958.0	-1,075.9	246.0	1,077.8	0.00	0.00	0.00	
10,300.0	89.93	180.51	8,958.1	-1,175.9	245.1	1,177.8	0.00	0.00	0.00	
10,400.0	89.93	180.51	8,958.2	-1,275.9	244.2	1,277.8	0.00	0.00	0.00	
10,500.0	89.93	180.51	8,958.4	-1,375.9	243.3	1,377.8	0.00	0.00	0.00	
10,600.0	89.93	180.51	8,958.5	-1,475.9	242.4	1,477.8	0.00	0.00	0.00	
10,700.0	89.93	180.51	8,958.6	-1,575.9	241.6	1,577.8	0.00	0.00	0.00	
10,800.0	89.93	180.51	8,958.7	-1,675.8	240.7	1,677.7	0.00	0.00	0.00	
10,900.0	89.93	180.51	8,958.8	-1,775.8	239.8	1,777.7	0.00	0.00	0.00	
11,000.0	89.93	180.51	8,958.9	-1,875.8	238.9	1,877.7	0.00	0.00	0.00	
11,100.0	89.93	180.51	8,959.0	-1,975.8	238.0	1,977.7	0.00	0.00	0.00	
11,200.0	89.93	180.51	8,959.2	-2,075.8	237.1	2,077.7	0.00	0.00	0.00	
11,300.0	89.93	180.51	8,959.3	-2,175.8	236.2	2,177.7	0.00	0.00	0.00	
11,400.0	89.93	180.51	8,959.4	-2,275.8	235.3	2,277.7	0.00	0.00	0.00	
11,500.0	89.93	180.51	8,959.5	-2,375.8	234.5	2,377.6	0.00	0.00	0.00	
11,600.0	89.93	180.51	8,959.6	-2,475.8	233.6	2,477.6	0.00	0.00	0.00	
11,700.0	89.93	180.51	8,959.7	-2,575.8	232.7	2,577.6	0.00	0.00	0.00	
11,800.0	89.93	180.51	8,959.8	-2,675.8	231.8	2,677.6	0.00	0.00	0.00	
11,900.0	89.93	180.51	8,960.0	-2,775.8	230.9	2,777.6	0.00	0.00	0.00	
12,000.0	89.93	180.51	8,960.1	-2,875.8	230.0	2,877.6	0.00	0.00	0.00	
12,100.0	89.93	180.51	8,960.2	-2,975.8	229.1	2,977.6	0.00	0.00	0.00	
12,200.0	89.93	180.51	8,960.3	-3,075.8	228.3	3,077.5	0.00	0.00	0.00	
12,300.0	89.93	180.51	8,960.4	-3,175.8	227.4	3,177.5	0.00	0.00	0.00	
12,400.0	89.93	180.51	8,960.5	-3,275.8	226.5	3,277.5	0.00	0.00	0.00	
12,500.0	89.93	180.51	8,960.6	-3,375.8	225.6	3,377.5	0.00	0.00	0.00	
12,600.0	89.93	180.51	8,960.8	-3,475.8	224.7	3,477.5	0.00	0.00	0.00	
12,700.0	89.93	180.51	8,960.9	-3,575.8	223.8	3,577.5	0.00	0.00	0.00	
12,800.0	89.93	180.51	8,961.0	-3,675.8	222.9	3,677.5	0.00	0.00	0.00	
12,900.0	89.93	180.51	8,961.1	-3,775.8	222.0	3,777.4	0.00	0.00	0.00	
13,000.0	89.93	180.51	8,961.2	-3,875.8	221.2	3,877.4	0.00	0.00	0.00	
13,100.0	89.93	180.51	8,961.3	-3,975.8	220.3	3,977.4	0.00	0.00	0.00	
13,200.0	89.93	180.51	8,961.4	-4,075.8	219.4	4,077.4	0.00	0.00	0.00	
13,300.0	89.93	180.51	8,961.6	-4,175.7	218.5	4,177.4	0.00	0.00	0.00	
13,400.0	89.93	180.51	8,961.7	-4,275.7	217.6	4,277.4	0.00	0.00	0.00	
13,500.0	89.93	180.51	8,961.8	-4,375.7	216.7	4,377.3	0.00	0.00	0.00	
13,600.0	89.93	180.51	8,961.9	-4,475.7	215.8	4,477.3	0.00	0.00	0.00	
13,700.0	89.93	180.51	8,962.0	-4,575.7	214.9	4,577.3	0.00	0.00	0.00	
13,800.0	89.93	180.51	8,962.1	-4,675.7	214.1	4,677.3	0.00	0.00	0.00	
13,900.0	89.93	180.51	8,962.2	-4,775.7	213.2	4,777.3	0.00	0.00	0.00	
14,000.0	89.93	180.51	8,962.4	-4,875.7	212.3	4,877.3	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #707H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #707H	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)
14,100.0	89.93	180.51	8,962.5	-4,975.7	211.4	4,977.3	0.00	0.00	0.00
14,200.0	89.93	180.51	8,962.6	-5,075.7	210.5	5,077.2	0.00	0.00	0.00
14,300.0	89.93	180.51	8,962.7	-5,175.7	209.6	5,177.2	0.00	0.00	0.00
14,400.0	89.93	180.51	8,962.8	-5,275.7	208.7	5,277.2	0.00	0.00	0.00
14,500.0	89.93	180.51	8,962.9	-5,375.7	207.9	5,377.2	0.00	0.00	0.00
14,600.0	89.93	180.51	8,963.0	-5,475.7	207.0	5,477.2	0.00	0.00	0.00
14,700.0	89.93	180.51	8,963.2	-5,575.7	206.1	5,577.2	0.00	0.00	0.00
14,800.0	89.93	180.51	8,963.3	-5,675.7	205.2	5,677.2	0.00	0.00	0.00
14,900.0	89.93	180.51	8,963.4	-5,775.7	204.3	5,777.1	0.00	0.00	0.00
15,000.0	89.93	180.51	8,963.5	-5,875.7	203.4	5,877.1	0.00	0.00	0.00
15,100.0	89.93	180.51	8,963.6	-5,975.7	202.5	5,977.1	0.00	0.00	0.00
15,200.0	89.93	180.51	8,963.7	-6,075.7	201.6	6,077.1	0.00	0.00	0.00
15,300.0	89.93	180.51	8,963.8	-6,175.7	200.8	6,177.1	0.00	0.00	0.00
15,400.0	89.93	180.51	8,963.9	-6,275.7	199.9	6,277.1	0.00	0.00	0.00
15,500.0	89.93	180.51	8,964.1	-6,375.7	199.0	6,377.1	0.00	0.00	0.00
15,600.0	89.93	180.51	8,964.2	-6,475.7	198.1	6,477.0	0.00	0.00	0.00
15,700.0	89.93	180.51	8,964.3	-6,575.7	197.2	6,577.0	0.00	0.00	0.00
15,800.0	89.93	180.51	8,964.4	-6,675.6	196.3	6,677.0	0.00	0.00	0.00
15,900.0	89.93	180.51	8,964.5	-6,775.6	195.4	6,777.0	0.00	0.00	0.00
16,000.0	89.93	180.51	8,964.6	-6,875.6	194.5	6,877.0	0.00	0.00	0.00
16,100.0	89.93	180.51	8,964.7	-6,975.6	193.7	6,977.0	0.00	0.00	0.00
16,200.0	89.93	180.51	8,964.9	-7,075.6	192.8	7,077.0	0.00	0.00	0.00
16,300.0	89.93	180.51	8,965.0	-7,175.6	191.9	7,176.9	0.00	0.00	0.00
16,400.0	89.93	180.51	8,965.1	-7,275.6	191.0	7,276.9	0.00	0.00	0.00
16,500.0	89.93	180.51	8,965.2	-7,375.6	190.1	7,376.9	0.00	0.00	0.00
16,600.0	89.93	180.51	8,965.3	-7,475.6	189.2	7,476.9	0.00	0.00	0.00
16,700.0	89.93	180.51	8,965.4	-7,575.6	188.3	7,576.9	0.00	0.00	0.00
16,800.0	89.93	180.51	8,965.5	-7,675.6	187.5	7,676.9	0.00	0.00	0.00
16,900.0	89.93	180.51	8,965.7	-7,775.6	186.6	7,776.9	0.00	0.00	0.00
17,000.0	89.93	180.51	8,965.8	-7,875.6	185.7	7,876.8	0.00	0.00	0.00
17,100.0	89.93	180.51	8,965.9	-7,975.6	184.8	7,976.8	0.00	0.00	0.00
17,200.0	89.93	180.51	8,966.0	-8,075.6	183.9	8,076.8	0.00	0.00	0.00
17,300.0	89.93	180.51	8,966.1	-8,175.6	183.0	8,176.8	0.00	0.00	0.00
17,400.0	89.93	180.51	8,966.2	-8,275.6	182.1	8,276.8	0.00	0.00	0.00
17,500.0	89.93	180.51	8,966.3	-8,375.6	181.2	8,376.8	0.00	0.00	0.00
17,600.0	89.93	180.51	8,966.5	-8,475.6	180.4	8,476.8	0.00	0.00	0.00
17,700.0	89.93	180.51	8,966.6	-8,575.6	179.5	8,576.7	0.00	0.00	0.00
17,800.0	89.93	180.51	8,966.7	-8,675.6	178.6	8,676.7	0.00	0.00	0.00
17,900.0	89.93	180.51	8,966.8	-8,775.6	177.7	8,776.7	0.00	0.00	0.00
18,000.0	89.93	180.51	8,966.9	-8,875.6	176.8	8,876.7	0.00	0.00	0.00
18,100.0	89.93	180.51	8,967.0	-8,975.6	175.9	8,976.7	0.00	0.00	0.00
18,200.0	89.93	180.51	8,967.1	-9,075.6	175.0	9,076.7	0.00	0.00	0.00
18,300.0	89.93	180.51	8,967.3	-9,175.5	174.1	9,176.7	0.00	0.00	0.00
18,400.0	89.93	180.51	8,967.4	-9,275.5	173.3	9,276.6	0.00	0.00	0.00
18,500.0	89.93	180.51	8,967.5	-9,375.5	172.4	9,376.6	0.00	0.00	0.00
18,600.0	89.93	180.51	8,967.6	-9,475.5	171.5	9,476.6	0.00	0.00	0.00
18,700.0	89.93	180.51	8,967.7	-9,575.5	170.6	9,576.6	0.00	0.00	0.00
18,800.0	89.93	180.51	8,967.8	-9,675.5	169.7	9,676.6	0.00	0.00	0.00
18,900.0	89.93	180.51	8,967.9	-9,775.5	168.8	9,776.6	0.00	0.00	0.00
19,000.0	89.93	180.51	8,968.1	-9,875.5	167.9	9,876.6	0.00	0.00	0.00
19,100.0	89.93	180.51	8,968.2	-9,975.5	167.1	9,976.5	0.00	0.00	0.00
19,200.0	89.93	180.51	8,968.3	-10,075.5	166.2	10,076.5	0.00	0.00	0.00
19,300.0	89.93	180.51	8,968.4	-10,175.5	165.3	10,176.5	0.00	0.00	0.00
19,400.0	89.93	180.51	8,968.5	-10,275.5	164.4	10,276.5	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #707H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #707H	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)
19,500.0	89.93	180.51	8,968.6	-10,375.5	163.5	10,376.5	0.00	0.00	0.00
19,600.0	89.93	180.51	8,968.7	-10,475.5	162.6	10,476.5	0.00	0.00	0.00
19,700.0	89.93	180.51	8,968.9	-10,575.5	161.7	10,576.5	0.00	0.00	0.00
19,800.0	89.93	180.51	8,969.0	-10,675.5	160.8	10,676.4	0.00	0.00	0.00
19,900.0	89.93	180.51	8,969.1	-10,775.5	160.0	10,776.4	0.00	0.00	0.00
20,000.0	89.93	180.51	8,969.2	-10,875.5	159.1	10,876.4	0.00	0.00	0.00
20,100.0	89.93	180.51	8,969.3	-10,975.5	158.2	10,976.4	0.00	0.00	0.00
20,200.0	89.93	180.51	8,969.4	-11,075.5	157.3	11,076.4	0.00	0.00	0.00
20,300.0	89.93	180.51	8,969.5	-11,175.5	156.4	11,176.4	0.00	0.00	0.00
20,400.0	89.93	180.51	8,969.7	-11,275.5	155.5	11,276.4	0.00	0.00	0.00
20,500.0	89.93	180.51	8,969.8	-11,375.5	154.6	11,376.3	0.00	0.00	0.00
20,600.0	89.93	180.51	8,969.9	-11,475.5	153.7	11,476.3	0.00	0.00	0.00
20,700.0	89.93	180.51	8,970.0	-11,575.5	152.9	11,576.3	0.00	0.00	0.00
20,800.0	89.93	180.51	8,970.1	-11,675.4	152.0	11,676.3	0.00	0.00	0.00
20,900.0	89.93	180.51	8,970.2	-11,775.4	151.1	11,776.3	0.00	0.00	0.00
21,000.0	89.93	180.51	8,970.3	-11,875.4	150.2	11,876.3	0.00	0.00	0.00
21,100.0	89.93	180.51	8,970.5	-11,975.4	149.3	11,976.3	0.00	0.00	0.00
21,200.0	89.93	180.51	8,970.6	-12,075.4	148.4	12,076.2	0.00	0.00	0.00
21,300.0	89.93	180.51	8,970.7	-12,175.4	147.5	12,176.2	0.00	0.00	0.00
21,400.0	89.93	180.51	8,970.8	-12,275.4	146.7	12,276.2	0.00	0.00	0.00
21,500.0	89.93	180.51	8,970.9	-12,375.4	145.8	12,376.2	0.00	0.00	0.00
21,600.0	89.93	180.51	8,971.0	-12,475.4	144.9	12,476.2	0.00	0.00	0.00
21,700.0	89.93	180.51	8,971.1	-12,575.4	144.0	12,576.2	0.00	0.00	0.00
21,800.0	89.93	180.51	8,971.3	-12,675.4	143.1	12,676.2	0.00	0.00	0.00
21,900.0	89.93	180.51	8,971.4	-12,775.4	142.2	12,776.1	0.00	0.00	0.00
22,000.0	89.93	180.51	8,971.5	-12,875.4	141.3	12,876.1	0.00	0.00	0.00
22,100.0	89.93	180.51	8,971.6	-12,975.4	140.4	12,976.1	0.00	0.00	0.00
22,200.0	89.93	180.51	8,971.7	-13,075.4	139.6	13,076.1	0.00	0.00	0.00
22,300.0	89.93	180.51	8,971.8	-13,175.4	138.7	13,176.1	0.00	0.00	0.00
22,400.0	89.93	180.51	8,971.9	-13,275.4	137.8	13,276.1	0.00	0.00	0.00
22,500.0	89.93	180.51	8,972.1	-13,375.4	136.9	13,376.0	0.00	0.00	0.00
22,600.0	89.93	180.51	8,972.2	-13,475.4	136.0	13,476.0	0.00	0.00	0.00
22,700.0	89.93	180.51	8,972.3	-13,575.4	135.1	13,576.0	0.00	0.00	0.00
22,800.0	89.93	180.51	8,972.4	-13,675.4	134.2	13,676.0	0.00	0.00	0.00
22,900.0	89.93	180.51	8,972.5	-13,775.4	133.4	13,776.0	0.00	0.00	0.00
23,000.0	89.93	180.51	8,972.6	-13,875.4	132.5	13,876.0	0.00	0.00	0.00
23,100.0	89.93	180.51	8,972.7	-13,975.4	131.6	13,976.0	0.00	0.00	0.00
23,200.0	89.93	180.51	8,972.9	-14,075.4	130.7	14,075.9	0.00	0.00	0.00
23,300.0	89.93	180.51	8,973.0	-14,175.3	129.8	14,175.9	0.00	0.00	0.00
23,400.0	89.93	180.51	8,973.1	-14,275.3	128.9	14,275.9	0.00	0.00	0.00
23,500.0	89.93	180.51	8,973.2	-14,375.3	128.0	14,375.9	0.00	0.00	0.00
23,600.0	89.93	180.51	8,973.3	-14,475.3	127.1	14,475.9	0.00	0.00	0.00
23,700.0	89.93	180.51	8,973.4	-14,575.3	126.3	14,575.9	0.00	0.00	0.00
23,800.0	89.93	180.51	8,973.5	-14,675.3	125.4	14,675.9	0.00	0.00	0.00
23,900.0	89.93	180.51	8,973.7	-14,775.3	124.5	14,775.8	0.00	0.00	0.00
24,000.0	89.93	180.51	8,973.8	-14,875.3	123.6	14,875.8	0.00	0.00	0.00
24,067.0	89.93	180.51	8,973.9	-14,942.3	123.0	14,942.8	0.00	0.00	0.00
Start 130.0 hold at 24067.0 MD									
24,100.0	89.93	180.51	8,973.9	-14,975.3	122.7	14,975.8	0.00	0.00	0.00
24,197.0	89.93	180.51	8,974.0	-15,072.3	121.8	15,072.8	0.00	0.00	0.00
TD at 24197.0									

ConocoPhillips
Planning Report

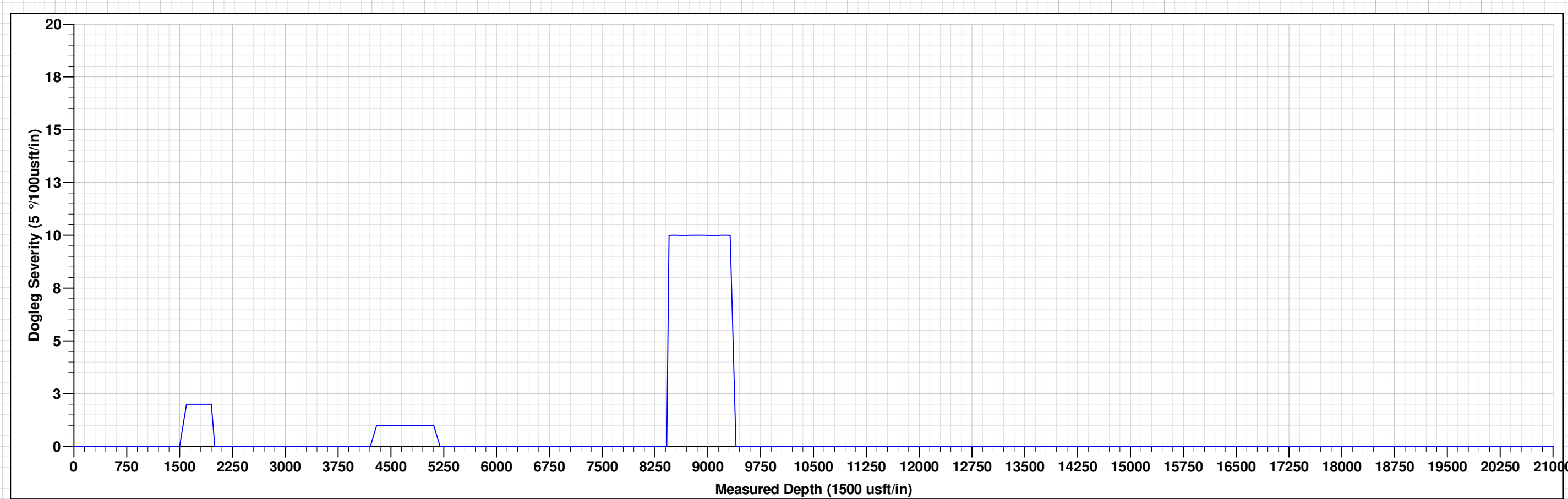
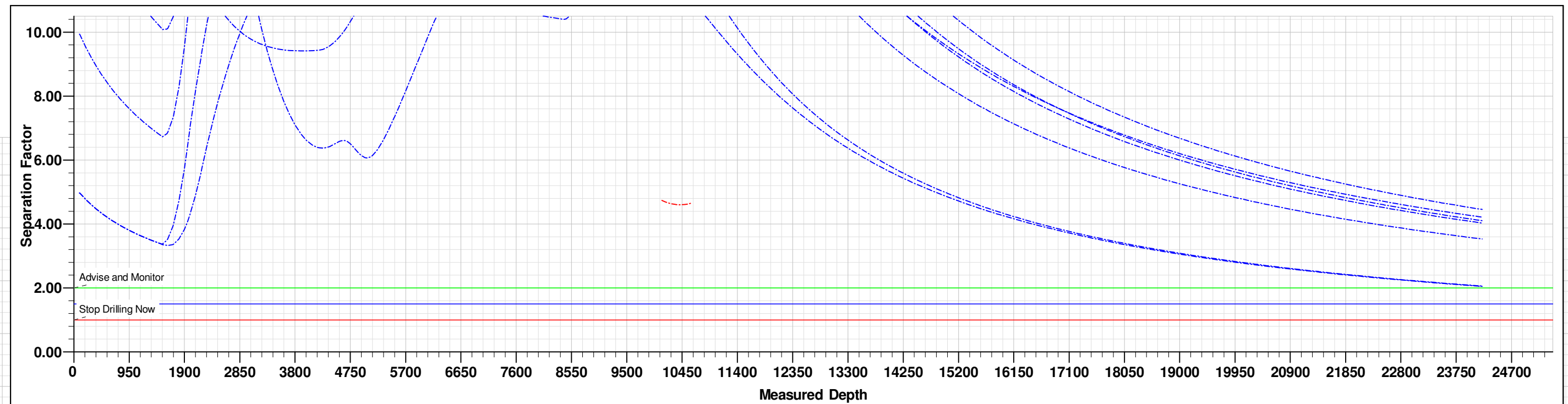
Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #707H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3153.2ft @ 3185.2usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #707H	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	8,957.0	379.6	258.9	402,758.70	542,356.40	32° 6' 26.014 N	104° 11' 47.537 W
- plan misses target center by 237.4usft at 8864.3usft MD (8787.0 TVD, 214.0 N, 257.4 E)									
- Circle (radius 50.0)									
LTP (FLAMING SNAIL F	0.00	0.00	8,973.9	-14,942.3	123.0	387,436.80	542,220.50	32° 3' 54.381 N	104° 11' 49.342 W
- plan hits target center									
- Point									
PBHL (FLAMING SNAIL	0.00	0.51	8,974.0	-15,072.3	121.9	387,306.80	542,219.40	32° 3' 53.094 N	104° 11' 49.357 W
- plan misses target center by 0.1usft at 24197.0usft MD (8974.0 TVD, -15072.3 N, 121.8 E)									
- Rectangle (sides W100.0 H15,452.5 D20.0)									

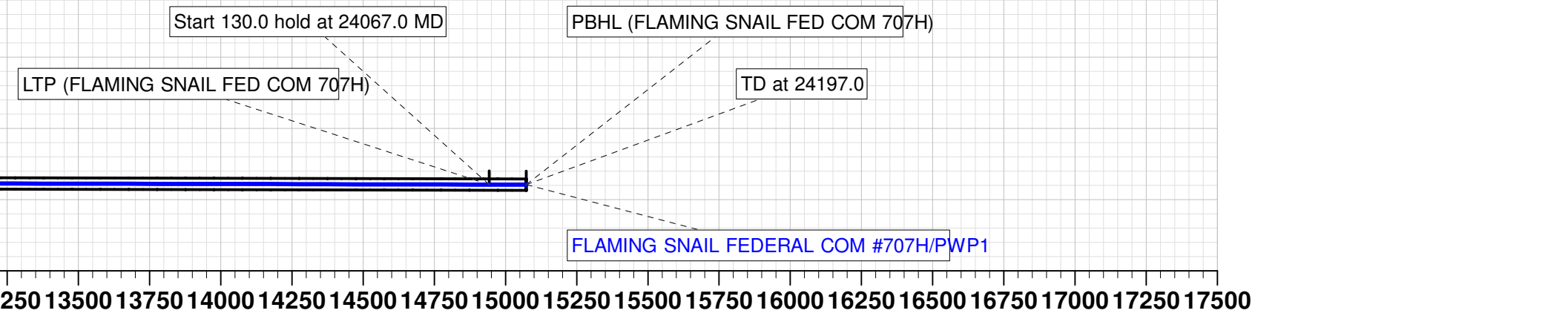
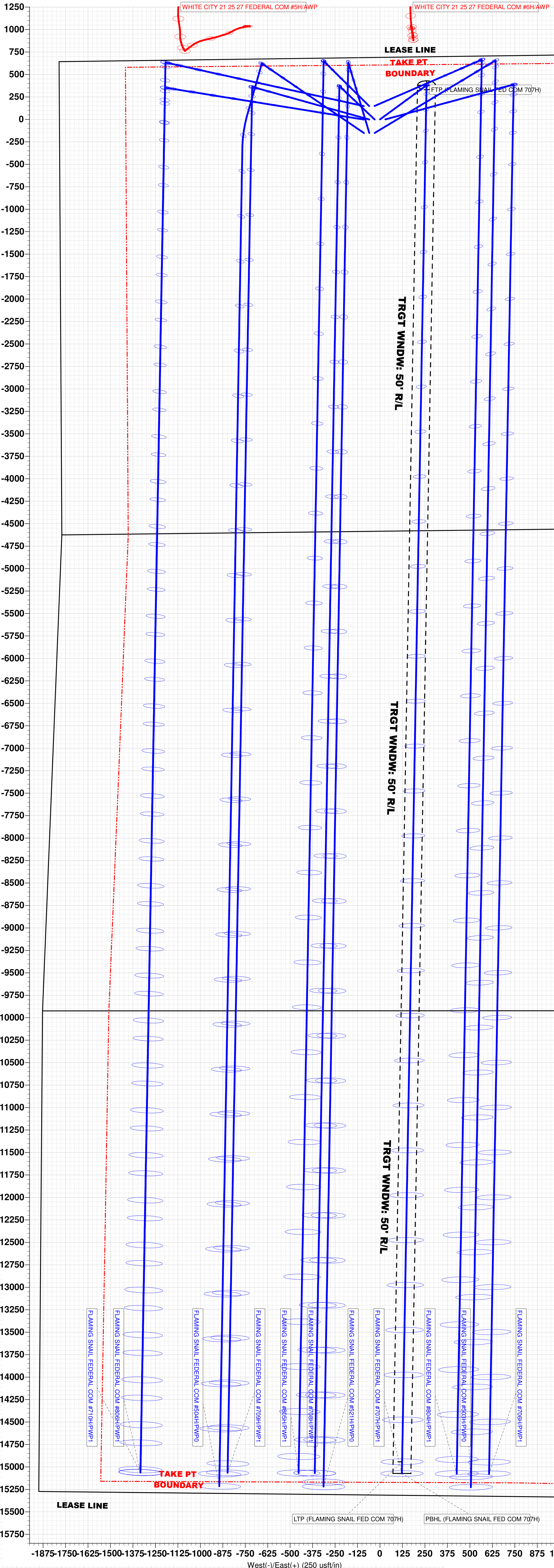
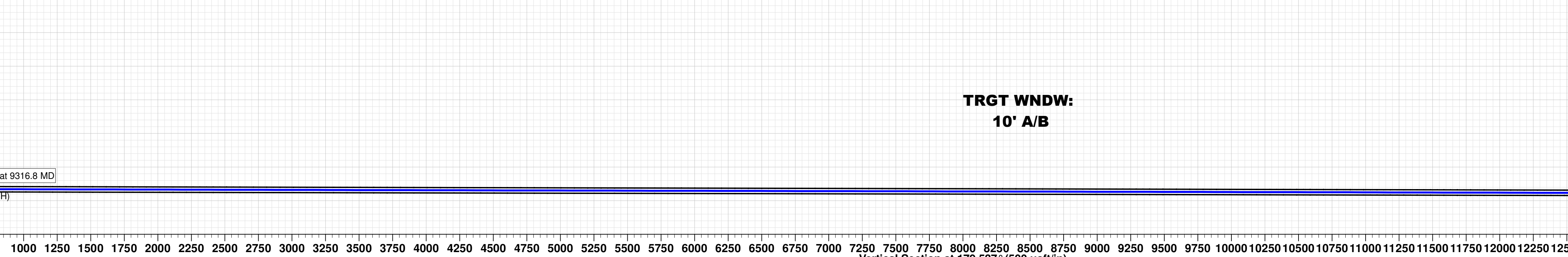
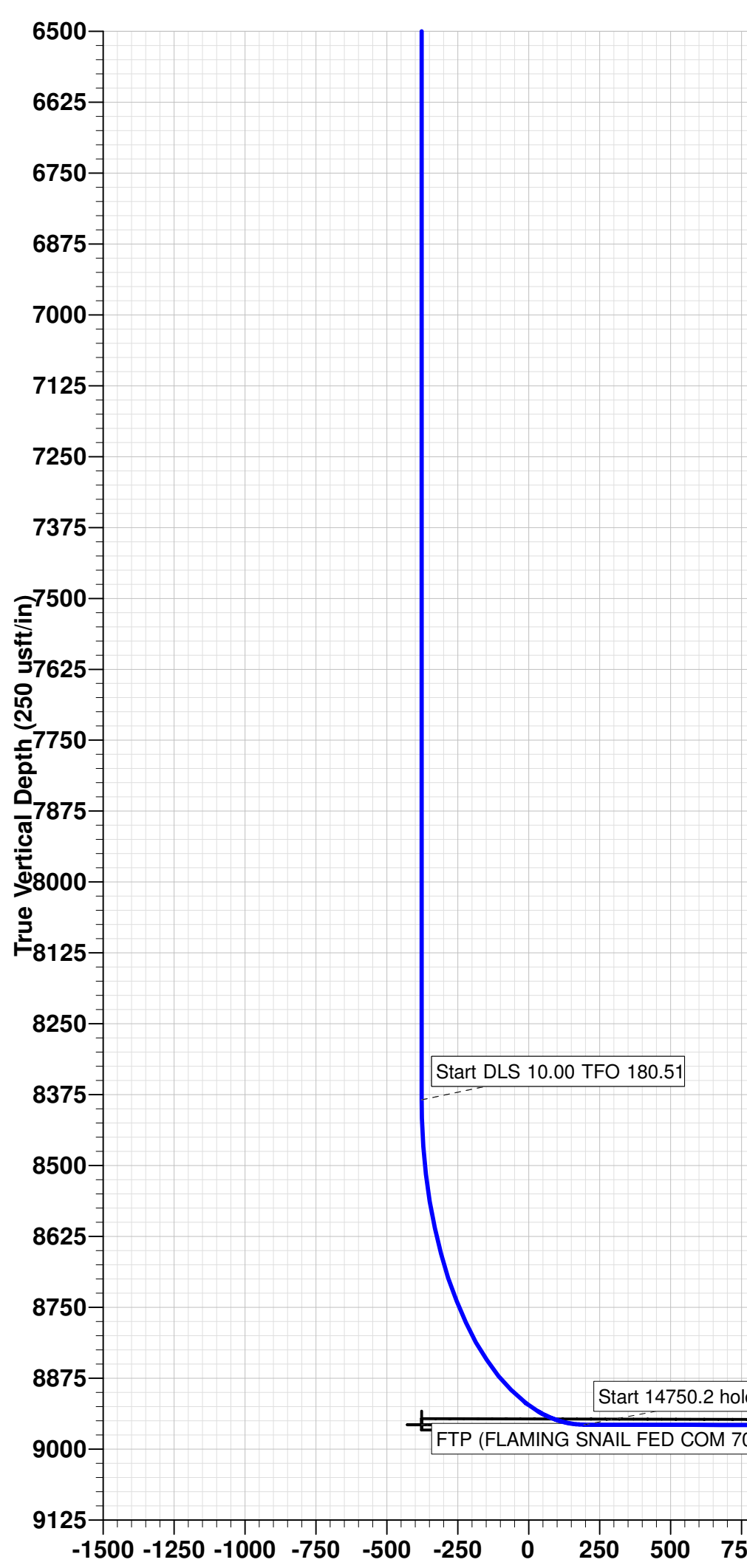
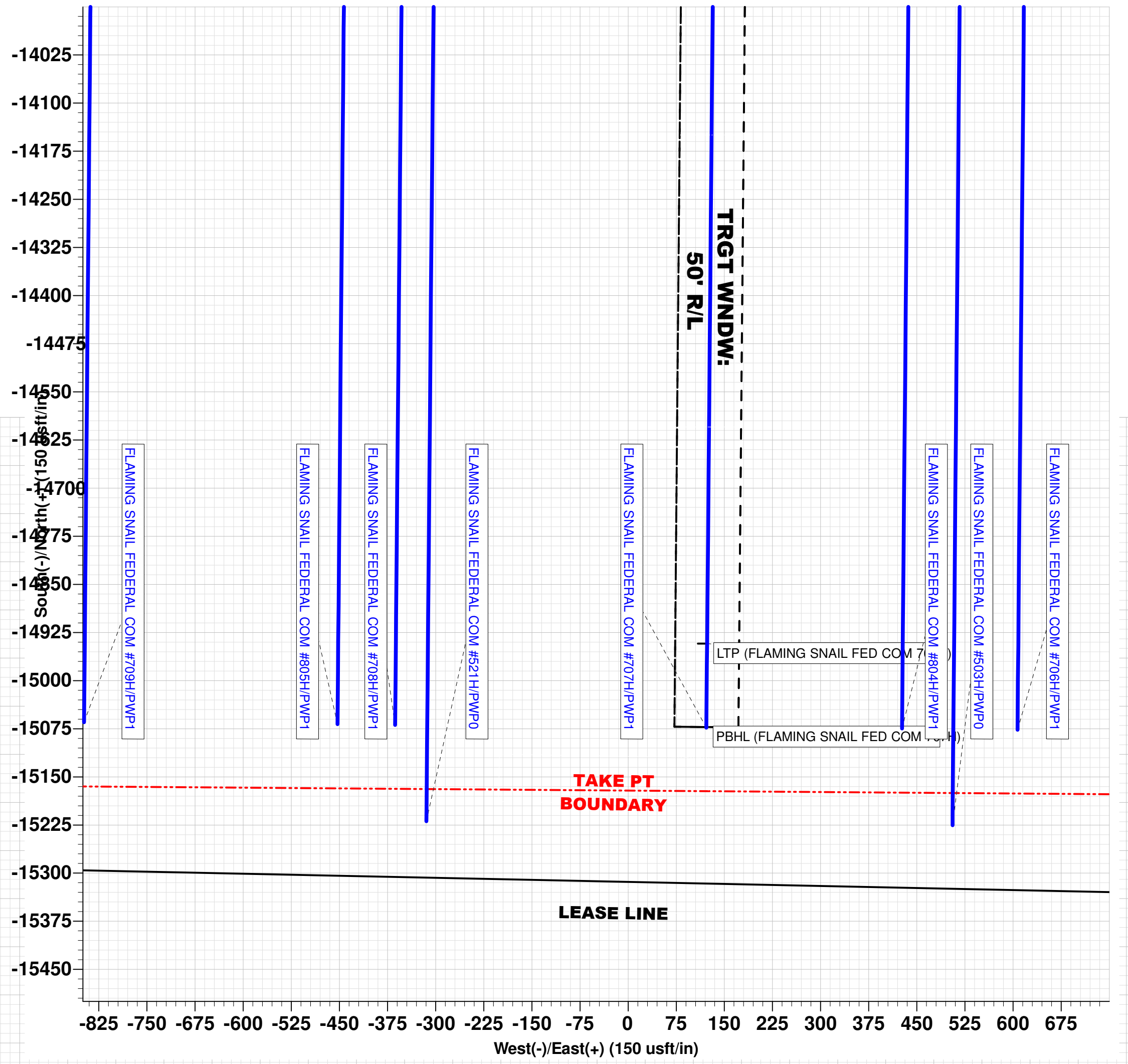
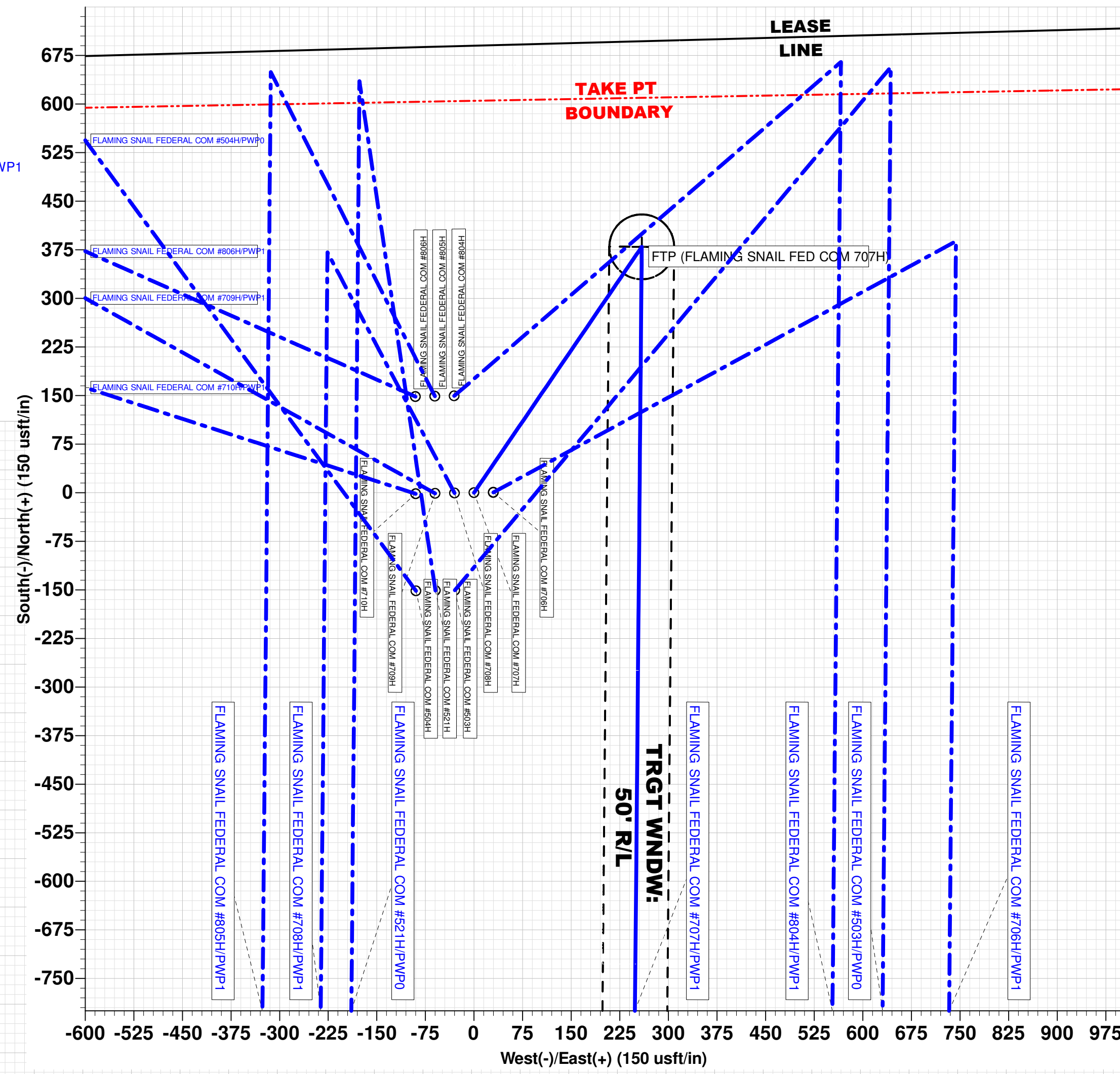
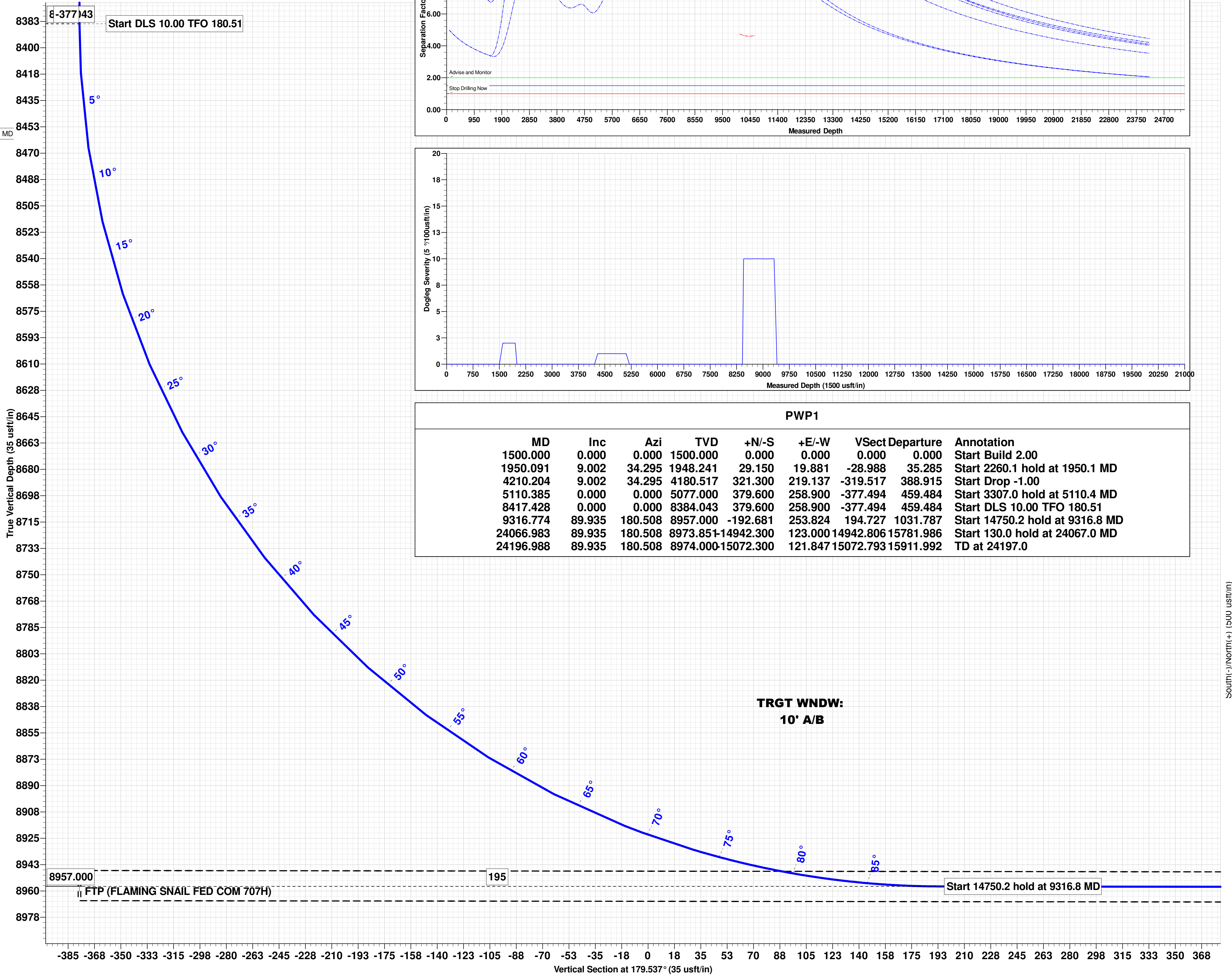
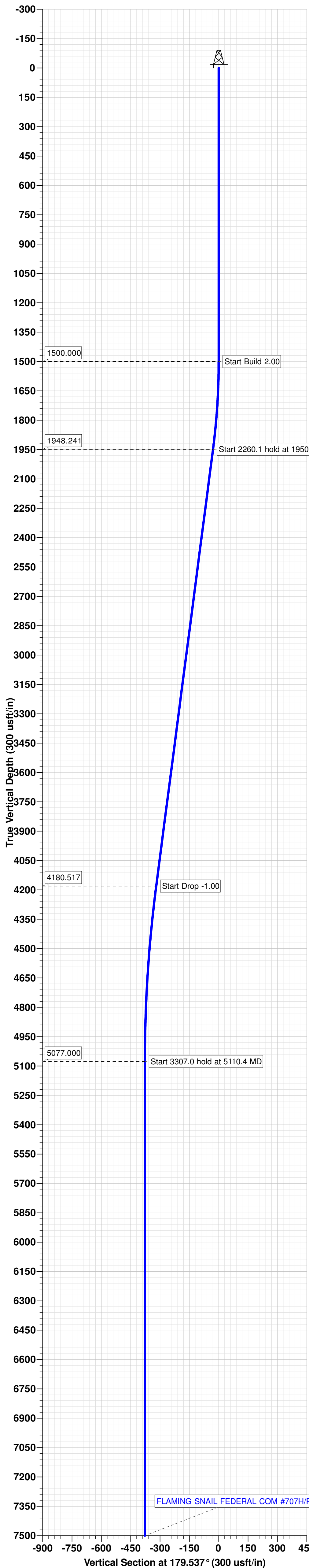
Plan Annotations				
Measured	Vertical	Local Coordinates		
Depth	Depth	+N/-S	+E/-W	Comment
(usft)	(usft)	(usft)	(usft)	
1,500.0	1,500.0	0.0	0.0	Start Build 2.00
1,950.1	1,948.2	29.2	19.9	Start 2260.1 hold at 1950.1 MD
4,210.2	4,180.5	321.3	219.1	Start Drop -1.00
5,110.4	5,077.0	379.6	258.9	Start 3307.0 hold at 5110.4 MD
8,417.4	8,384.0	379.6	258.9	Start DLS 10.00 TFO 180.51
9,316.8	8,957.0	-192.7	253.8	Start 14750.2 hold at 9316.8 MD
24,067.0	8,973.9	-14,942.3	123.0	Start 130.0 hold at 24067.0 MD
24,197.0	8,974.0	-15,072.3	121.8	TD at 24197.0

WELL DETAILS: FLAMING SNAIL FEDERAL COM #707H					
+N-S	+E-W	Northing	Easting	Latitude	Longitude
0.000	0.000	402379.100	542097.500	32.106183345474°N	104.197375761002°W

DESIGN TARGET DETAILS					
Name	TVD	+N-S	+E-W	Northing	Easting
FTP (FLAMING SNAIL FED COM 707H)	8957.000	379.600	258.900	402758.700	542356.400
LTP (FLAMING SNAIL FED COM 707H)	8973.851	-14942.300	123.000	387436.800	542220.500
PBHL (FLAMING SNAIL FED COM 707H)	8974.000	-15072.300	121.900	387306.800	542219.400
Shape					
Circle (Radius: 50.000)					
Point					
Rectangle (Sides: L15452.500 W100.000)					



PWP1									
MD	Inc	Azi	TVD	+N-S	+E-W	Vsect	Departure	Annotation	
1500.000	0.000	0.000	1500.000	0.000	0.000	0.000	0.000	Start Build 2.00	
1950.091	9.002	34.295	1948.241	29.150	19.881	-28.988	35.285	Start 2260.1 hold at 1950.1 MD	
4210.204	9.002	34.295	4180.517	321.300	219.137	-319.517	388.915	Start Drop -1.00	
5110.385	0.000	0.000	5077.000	379.600	258.900	-377.494	459.484	Start 3307.0 hold at 5110.4 MD	
8417.428	0.000	0.000	8384.043	379.600	258.900	-377.494	459.484	Start DLS 10.00 TFO 180.51	
9316.774	89.935	180.508	8957.000	-192.681	253.824	194.727	1031.787	Start 14750.2 hold at 9316.8 MD	
24066.983	89.935	180.508	8973.851	-14942.300	123.000	14942.806	15781.966	Start 130.0 hold at 24067.0 MD	
24196.988	89.935	180.508	8974.000	-15072.300	121.847	15072.793	15911.992	TD at 24197.0	



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

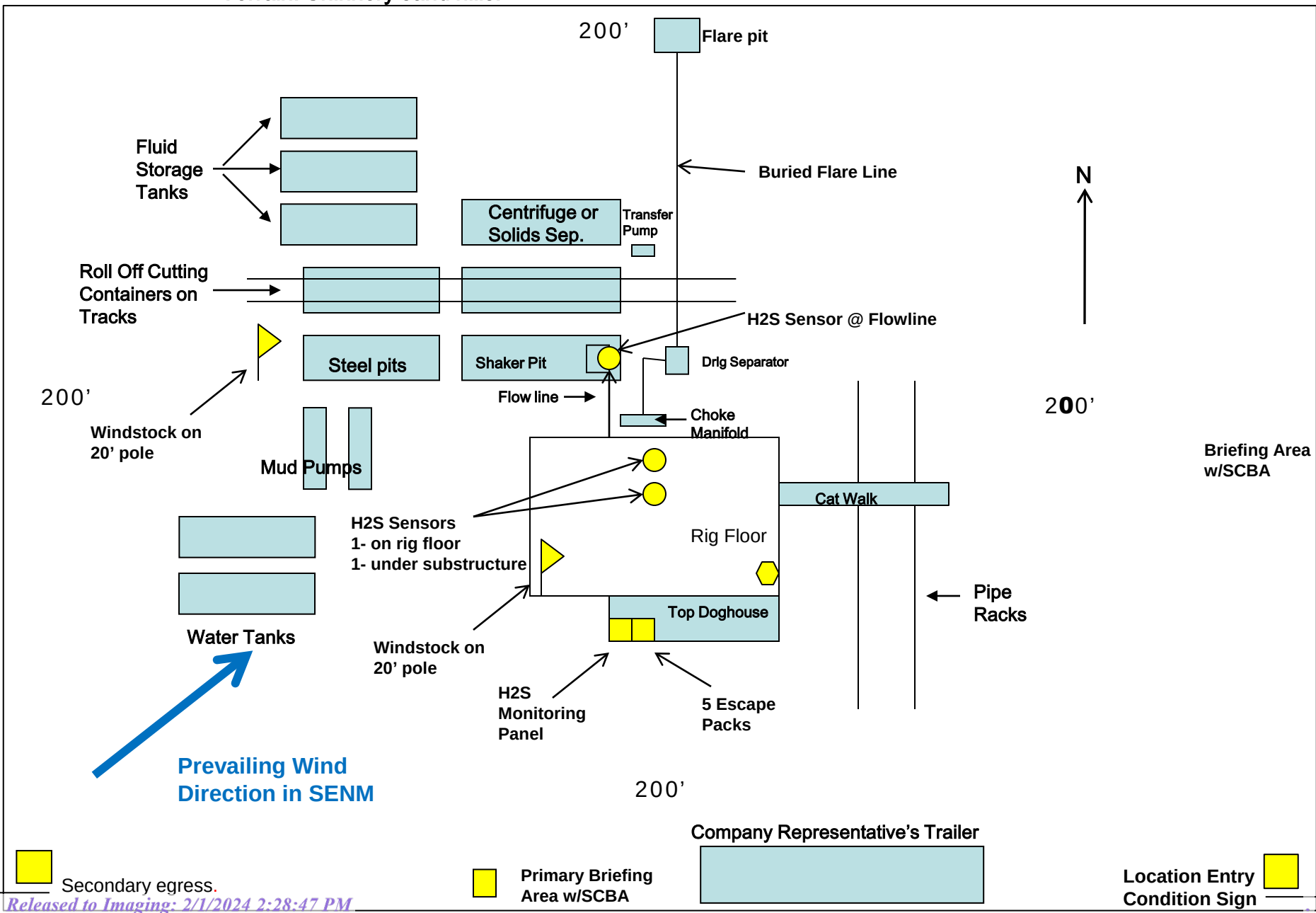
All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location 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 304028

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:
	229137
	Action Number:
	304028
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