

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

1a. Type of work: ☐ DRILL ☐ REENTER		5. Lease Serial No.
1b. Type of Well: ☐ Oil Well ☒ Gas Well ☐ Other		6. If Indian, Allottee or Tribe Name
1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☐ Multiple Zone		7. If Unit or CA Agreement, Name and No.
2. Name of Operator		8. Lease Name and Well No.
3a. Address		9. API Well No. 30-015-54649
3b. Phone No. (include area code)		10. Field and Pool, or Exploratory
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		11. Sec., T. R. M. or Blk. and Survey or Area
14. Distance in miles and direction from nearest town or post office*		12. County or Parish
		13. State
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration
24. Attachments		
The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)		
1. Well plat certified by a registered surveyor. 2. A Drilling Plan. 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).		4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). 5. Operator certification. 6. Such other site specific information and/or plans as may be requested by the BLM.
25. Signature	Name (Printed/Typed)	Date
Title		
Approved by (Signature)	Name (Printed/Typed)	Date
Title		
Office		
Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Conditions of approval, if any, are attached.		
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.		

(Continued on page 2)

*(Instructions on page 2)



Additional Operator Remarks

Location of Well

0. SHL: NENW / 757 FNL / 1709 FWL / TWSP: 25S / RANGE: 27E / SECTION: 28 / LAT: 32.10616 / LONG: -104.197986 (TVD: 0 feet, MD: 0 feet)

PPP: NENW / 330 FNL / 2490 FWL / TWSP: 25S / RANGE: 27E / SECTION: 28 / LAT: 32.107369 / LONG: -104.195466 (TVD: 8801 feet, MD: 8940 feet)

BHL: SESW / 200 FSL / 2490 FWL / TWSP: 26S / RANGE: 27E / SECTION: 4 / LAT: 32.064859 / LONG: -104.195971 (TVD: 8981 feet, MD: 24277 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- 54649	Pool Code 98220	Pool Name Purple Sage; Wolfcamp (Gas)
Property Code 333880	Property Name FLAMING SNAIL FEDERAL COM	Well Number 706H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3152.5'

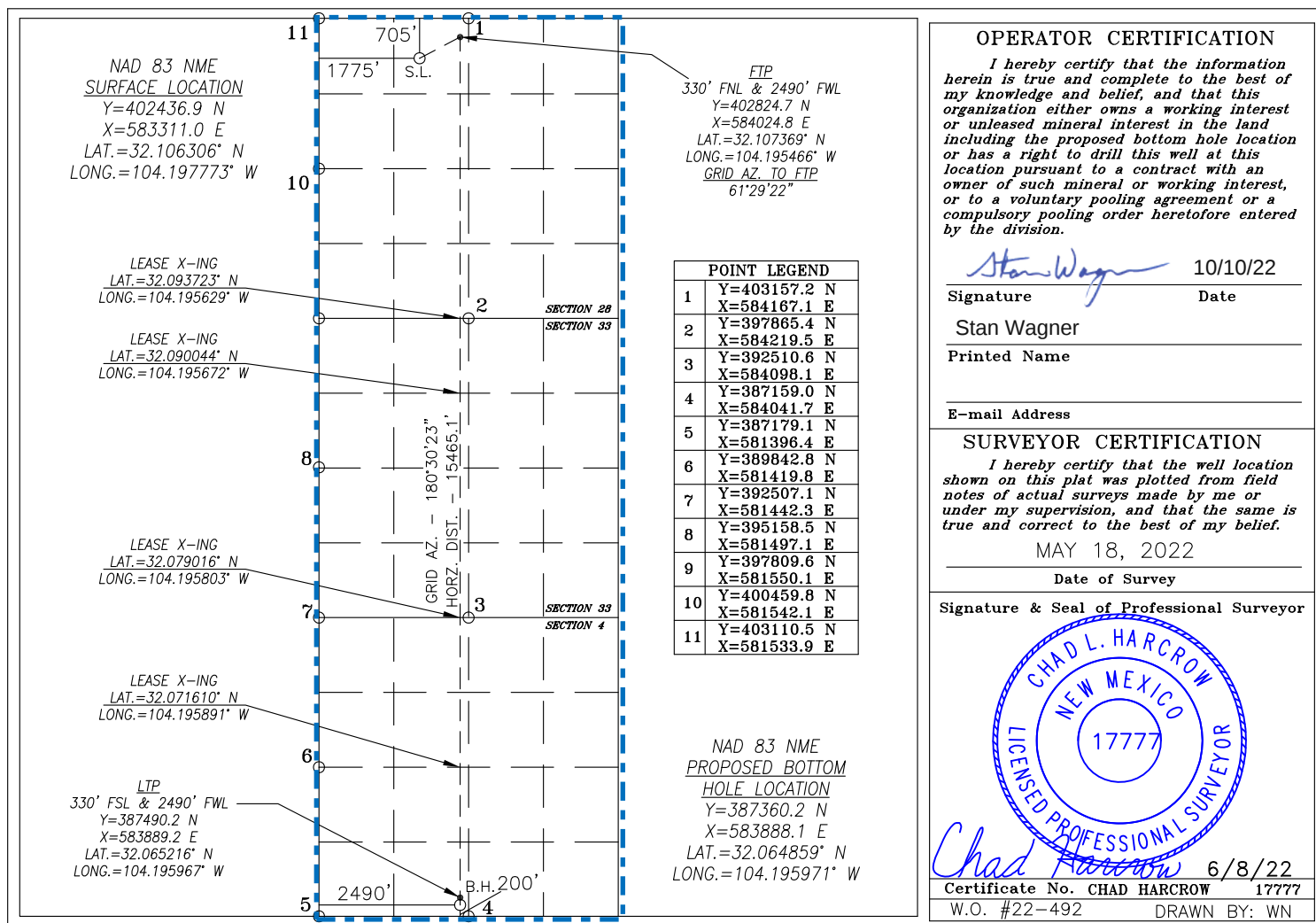
Surface Location

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	1775	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	2490	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 DepartmentSubmit Electronically
Via E-permittingOil 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

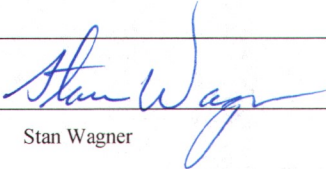
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(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 706H

1. Geologic Formations

TVD of target	8,981' EOL	Pilot hole depth	NA
MD at TD:	24,277'	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	2206	Salt Water	
Cherry Canyon	2996	Oil/Gas	
Brushy Canyon	4089	Oil/Gas	
Bone Spring Lime	5703	Oil/Gas	
1st Bone Spring Sand	6637	Oil/Gas	
2nd Bone Spring Sand	7161	Oil/Gas	
3rd Bone Spring Sand	8477	Oil/Gas	
Wolfcamp	8809	Oil/Gas	
Wolfcamp A	8896	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	24,277	5.5"	23	P110	W441	2.49	2.94	3.53	3.20
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 706H

	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 706H

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
	1554	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 706H

4. Pressure Control Equipment

N	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.
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BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	x	Tested to:
9-7/8"	13-5/8"	3M	Annular	x	2500psi
			Blind Ram		3000psi
			Pipe Ram	x	
			Double Ram	x	
			Other*		
6-3/4"	13-5/8"	5M	5M Annular	x	2500psi
			Blind Ram		5000psi
			Pipe Ram	x	
			Double Ram	x	
			Other*		

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

Y	Formation integrity test will be performed per Onshore Order #2. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.
Y	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.
N	Are anchors required by manufacturer?
Y	A multibowl wellhead is being used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested.

COG Operating, LLC - Flaming Snail Federal Com 706H

5. Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0	Surf. Shoe	FW Gel	8.6 - 8.8	28-34	N/C
Surf csg	7-5/8" Int shoe	Brine Diesel Emulsion	8.4 - 9	28-34	N/C
7-5/8" Int shoe	Lateral TD	OBM	9.6 - 12.5	35-45	<20

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring
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6. Logging and Testing Procedures

Logging, Coring and Testing.	
Y	Will run GR/CNL from TD to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.
Y	No Logs are planned based on well control or offset log information.
N	Drill stem test? If yes, explain.
N	Coring? If yes, explain.

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

COG Operating, LLC - Flaming Snail Federal Com 706H

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	5840 psi at 8981' 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

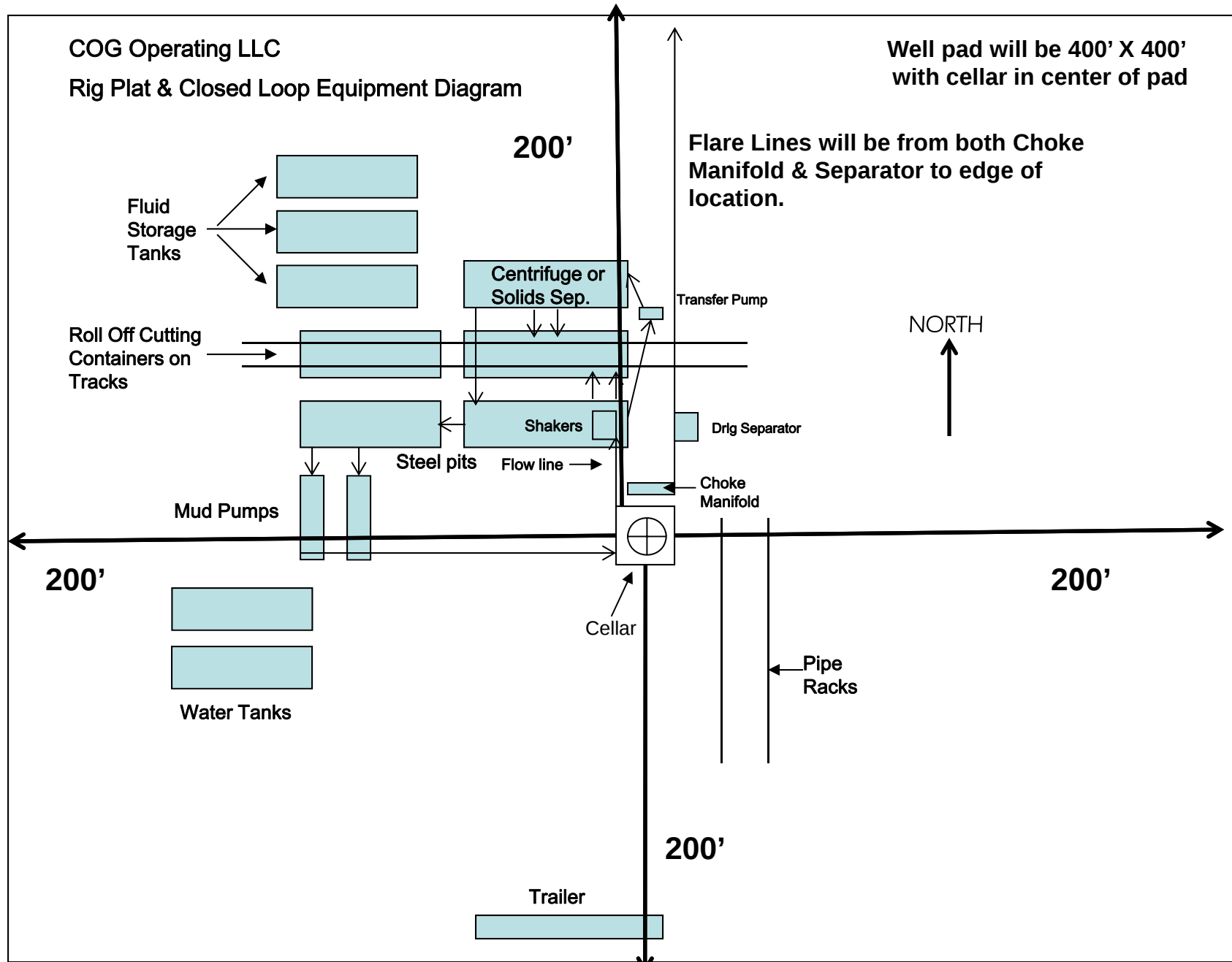


Exhibit 1

"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 #706H

OWB

PWP1

Anticollision Report

24 September, 2022

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

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

Survey Tool Program	Date	9/23/2022		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	1,500.0	PWP1 (OWB)	r.5 SDI_KPR_WL_NS-CT	SDI Keeper Wireline Gyrocomp.-Initilzd Cont. rev.5
1,500.0	8,485.8	PWP1 (OWB)	r.5 MWD+IFR1	OWSG MWD + IFR1 rev.5
8,485.8	24,277.5	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	7,609.5	7,723.8	1,207.2	1,171.3	33.550	CC, ES
FLAMING SNAIL FEDERAL COM #502H - OWB - PWP0	7,695.0	7,757.9	1,209.7	1,173.6	33.520	SF
FLAMING SNAIL FEDERAL COM #503H - OWB - PWP0	7,555.1	7,684.6	102.9	65.1	2.718	CC, ES, SF
FLAMING SNAIL FEDERAL COM #504H - OWB - PWP0	1,500.0	1,503.7	193.4	185.4	24.111	CC, ES
FLAMING SNAIL FEDERAL COM #504H - OWB - PWP0	1,710.0	1,713.5	200.5	191.9	23.335	SF
FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0						Out of range
FLAMING SNAIL FEDERAL COM #521H - OWB - PWP0	1,500.0	1,503.5	176.0	167.9	21.726	CC, ES
FLAMING SNAIL FEDERAL COM #521H - OWB - PWP0	1,710.0	1,713.3	182.7	174.0	21.099	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	8,485.8	8,463.0	998.6	956.1	23.528	CC
FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1	24,278.2	24,301.5	1,007.4	769.0	4.225	ES, SF
FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1	8,485.8	8,519.5	513.6	463.8	10.321	CC
FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1	24,278.2	24,335.5	522.4	282.5	2.177	ES, SF
FLAMING SNAIL FEDERAL COM #707H - OWB - PWP1	1,501.3	1,502.0	30.0	21.1	3.377	CC
FLAMING SNAIL FEDERAL COM #707H - OWB - PWP1	1,520.0	1,520.8	30.0	21.1	3.359	ES
FLAMING SNAIL FEDERAL COM #707H - OWB - PWP1	24,278.2	24,196.9	485.1	248.4	2.050	SF
FLAMING SNAIL FEDERAL COM #708H - OWB - PWP1	1,437.0	1,438.4	60.0	51.2	6.841	CC
FLAMING SNAIL FEDERAL COM #708H - OWB - PWP1	1,500.0	1,501.4	60.0	51.1	6.757	ES
FLAMING SNAIL FEDERAL COM #708H - OWB - PWP1	24,278.2	24,169.5	970.1	733.6	4.102	SF
FLAMING SNAIL FEDERAL COM #709H - OWB - PWP1	1,436.8	1,438.9	90.0	81.2	10.261	CC
FLAMING SNAIL FEDERAL COM #709H - OWB - PWP1	1,500.0	1,502.0	90.0	81.1	10.134	ES
FLAMING SNAIL FEDERAL COM #709H - OWB - PWP1	1,520.0	1,521.5	90.1	81.2	10.074	SF
FLAMING SNAIL FEDERAL COM #710H - OWB - PWP1	1,436.6	1,439.1	120.0	111.2	13.682	CC
FLAMING SNAIL FEDERAL COM #710H - OWB - PWP1	1,500.0	1,502.4	120.0	111.1	13.510	ES
FLAMING SNAIL FEDERAL COM #710H - OWB - PWP1	1,600.0	1,600.0	123.2	114.0	13.351	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	8,485.8	8,498.5	754.6	710.2	16.982	CC, ES
FLAMING SNAIL FEDERAL COM #803H - OWB - PWP1	24,278.2	25,416.1	1,082.5	837.9	4.425	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 #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
FLAMING SNAIL FED COM PROJECT						
FLAMING SNAIL FEDERAL COM #804H - OWB - PWP1	1,500.0	1,498.1	160.7	151.4	17.169	CC
FLAMING SNAIL FEDERAL COM #804H - OWB - PWP1	1,520.0	1,517.8	160.7	151.3	17.079	ES
FLAMING SNAIL FEDERAL COM #804H - OWB - PWP1	24,278.2	25,359.1	823.8	576.8	3.335	SF
FLAMING SNAIL FEDERAL COM #805H - OWB - PWP1	1,500.0	1,498.0	173.8	164.5	18.705	CC, ES
FLAMING SNAIL FEDERAL COM #805H - OWB - PWP1	1,700.0	1,686.3	180.6	170.7	18.183	SF
FLAMING SNAIL FEDERAL COM #806H - OWB - PWP1	1,500.0	1,498.2	190.7	181.5	20.686	CC, ES
FLAMING SNAIL FEDERAL COM #806H - OWB - PWP1	1,700.0	1,686.4	198.0	188.1	20.127	SF
LEONARDO BKL FEDERAL COM #1 - OWB - AWP	10,442.2	8,918.2	807.0	521.6	2.828	CC
LEONARDO BKL FEDERAL COM #1 - OWB - AWP	10,450.0	8,918.3	807.1	521.6	2.827	ES, SF
WHITE CITY 21 25 27 FEDERAL COM #5H - OWB - AW	95.0	58.0	1,292.9	1,286.8	214.268	CC
WHITE CITY 21 25 27 FEDERAL COM #5H - OWB - AW	1,900.0	1,890.8	1,297.5	1,283.4	92.047	ES
WHITE CITY 21 25 27 FEDERAL COM #5H - OWB - AW	2,600.0	2,561.9	1,316.8	1,298.6	72.412	SF
WHITE CITY 21 25 27 FEDERAL COM #6H - OWB - AW	7,108.1	6,985.4	743.2	703.4	18.663	CC, ES
WHITE CITY 21 25 27 FEDERAL COM #6H - OWB - AW	7,125.0	6,997.1	743.2	703.4	18.647	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 #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

TD Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
FLAMING SNAIL FED COM PROJECT						
FLAMING SNAIL FEDERAL COM #501H - OWB - PWP0	24,278.2	23,268.8				Out of Range @TD
FLAMING SNAIL FEDERAL COM #502H - OWB - PWP0	24,278.2	23,196.1				Out of Range @TD
FLAMING SNAIL FEDERAL COM #503H - OWB - PWP0	24,278.2	23,164.7				Out of Range @TD
FLAMING SNAIL FEDERAL COM #504H - OWB - PWP0	24,278.2	23,085.5				Out of Range @TD
FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0	24,278.2	23,585.4				Out of Range @TD
FLAMING SNAIL FEDERAL COM #521H - OWB - PWP0	24,278.2	23,471.9				Out of Range @TD
FLAMING SNAIL FEDERAL COM #701H - OWB - PWP1	24,278.2	24,344.5				Out of Range @TD
FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1	24,278.2	24,272.5				Out of Range @TD
FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1	24,278.2	24,263.2				Out of Range @TD
FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1	24,278.2	24,301.5	1,007.4	769.0	4.225	ES, SF
FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1	24,278.2	24,335.5	522.4	282.5	2.177	ES, SF
FLAMING SNAIL FEDERAL COM #707H - OWB - PWP1	24,278.2	24,196.9	485.1	248.4	2.050	SF
FLAMING SNAIL FEDERAL COM #708H - OWB - PWP1	24,278.2	24,169.5	970.1	733.6	4.102	SF
FLAMING SNAIL FEDERAL COM #709H - OWB - PWP1	24,278.2	24,201.3				Out of Range @TD
FLAMING SNAIL FEDERAL COM #710H - OWB - PWP1	24,278.2	24,227.5				Out of Range @TD
FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1	24,278.2	25,453.7				Out of Range @TD
FLAMING SNAIL FEDERAL COM #802H - OWB - PWP1	24,278.2	25,370.2				Out of Range @TD
FLAMING SNAIL FEDERAL COM #803H - OWB - PWP1	24,278.2	25,416.1	1,082.5	837.9	4.425	SF
FLAMING SNAIL FEDERAL COM #804H - OWB - PWP1	24,278.2	25,359.1	823.8	576.8	3.335	SF
FLAMING SNAIL FEDERAL COM #805H - OWB - PWP1	24,278.2	25,283.1				Out of Range @TD
FLAMING SNAIL FEDERAL COM #806H - OWB - PWP1	24,278.2	25,328.4				Out of Range @TD
LEONARDO BKL FEDERAL COM #1 - OWB - AWP	24,278.2	8,932.2				Out of Range @TD
WHITE CITY 21 25 27 FEDERAL COM #5H - OWB - AW	24,278.2	6,985.0				Out of Range @TD
WHITE CITY 21 25 27 FEDERAL COM #6H - OWB - AW	24,278.2	7,054.0				Out of Range @TD

Offset Design:	FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #502H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program:	0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7093-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,400.0	5,307.3	5,536.8	5,439.5	20.2	18.6	19.84	585.9	2,000.7	1,315.1	1,283.8	31.31	42.009		
5,415.0	5,322.3	5,551.3	5,453.5	20.3	18.7	19.69	588.8	1,998.6	1,312.6	1,281.3	31.39	41.822		
5,500.0	5,407.3	5,633.4	5,533.0	20.6	19.1	18.84	605.4	1,986.4	1,300.1	1,268.3	31.84	40.836		
5,510.0	5,417.3	5,643.1	5,542.4	20.6	19.1	18.73	607.4	1,985.0	1,298.8	1,266.9	31.87	40.751		
5,553.7	5,461.0	5,685.4	5,583.4	20.6	19.3	79.77	615.9	1,978.7	1,293.6	1,261.5	32.02	40.398		
5,600.0	5,507.3	5,724.4	5,621.1	20.7	19.5	79.39	623.7	1,973.1	1,288.5	1,256.4	32.13	40.106		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #502H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program:		0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7093-r.5 MWD+IFR1+MS						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	
5,605.0	5,512.3	5,728.4	5,625.1	20.7	19.5	79.35	624.5	1,972.5	1,288.0	1,255.8	32.14	40.073		
5,700.0	5,607.3	5,800.0	5,694.8	20.7	19.9	78.69	637.6	1,962.9	1,278.7	1,246.3	32.39	39.481		
5,795.0	5,702.3	5,884.3	5,777.4	20.7	20.3	77.99	651.2	1,953.0	1,270.7	1,238.1	32.61	38.965		
5,800.0	5,707.3	5,888.5	5,781.5	20.7	20.3	77.96	651.9	1,952.5	1,270.3	1,237.7	32.62	38.939		
5,890.0	5,797.3	5,963.5	5,855.4	20.8	20.7	77.43	662.3	1,944.9	1,264.0	1,231.1	32.82	38.508		
5,900.0	5,807.3	5,971.9	5,863.7	20.8	20.7	77.37	663.3	1,944.1	1,263.3	1,230.5	32.85	38.463		
5,985.0	5,892.3	6,043.5	5,934.5	20.8	21.0	76.94	671.6	1,938.1	1,258.5	1,225.4	33.02	38.106		
6,000.0	5,907.3	6,056.2	5,947.1	20.8	21.1	76.88	672.9	1,937.1	1,257.7	1,224.6	33.06	38.048		
6,080.0	5,987.3	6,124.0	6,014.5	20.9	21.4	76.55	679.2	1,932.5	1,254.1	1,220.9	33.22	37.755		
6,100.0	6,007.3	6,141.0	6,031.4	20.9	21.4	76.47	680.6	1,931.5	1,253.3	1,220.1	33.26	37.688		
6,175.0	6,082.3	6,200.0	6,090.2	20.9	21.7	76.26	684.8	1,928.5	1,250.9	1,217.5	33.40	37.452		
6,200.0	6,107.3	6,226.4	6,116.5	20.9	21.8	76.18	686.3	1,927.4	1,250.2	1,216.7	33.44	37.380		
6,270.0	6,177.3	6,286.4	6,176.4	20.9	22.0	76.03	689.1	1,925.3	1,248.7	1,215.1	33.57	37.194		
6,300.0	6,207.3	6,312.1	6,202.1	21.0	22.1	75.99	689.9	1,924.7	1,248.2	1,214.5	33.62	37.122		
6,365.0	6,272.3	6,367.9	6,257.9	21.0	22.3	75.92	691.2	1,923.8	1,247.5	1,213.8	33.73	36.985		
6,400.0	6,307.3	6,400.0	6,289.9	21.0	22.4	75.90	691.5	1,923.5	1,247.3	1,213.5	33.79	36.915		
6,428.1	6,335.4	6,422.5	6,312.5	21.0	22.4	75.90	691.6	1,923.5	1,247.3	1,213.5	33.82	36.885		
6,460.0	6,367.3	6,454.4	6,344.4	21.0	22.4	75.90	691.6	1,923.5	1,247.3	1,213.4	33.85	36.851		
6,500.0	6,407.3	6,494.4	6,384.4	21.0	22.4	75.90	691.6	1,923.5	1,247.3	1,213.4	33.89	36.809		
6,555.0	6,462.3	6,549.4	6,439.4	21.1	22.4	75.90	691.6	1,923.5	1,247.3	1,213.3	33.95	36.743		
6,600.0	6,507.3	6,594.4	6,484.4	21.1	22.4	75.90	691.6	1,923.5	1,247.3	1,213.3	34.00	36.688		
6,650.0	6,557.3	6,644.4	6,534.4	21.1	22.5	75.90	691.6	1,923.5	1,247.3	1,213.2	34.05	36.628		
6,700.0	6,607.3	6,694.4	6,584.4	21.1	22.5	75.90	691.6	1,923.5	1,247.3	1,213.2	34.11	36.567		
6,745.0	6,652.3	6,739.4	6,629.4	21.1	22.5	75.90	691.6	1,923.5	1,247.3	1,213.1	34.16	36.513		
6,800.0	6,707.3	6,794.4	6,684.4	21.2	22.5	75.90	691.6	1,923.5	1,247.3	1,213.1	34.22	36.446		
6,840.0	6,747.3	6,834.4	6,724.4	21.2	22.5	75.90	691.6	1,923.5	1,247.3	1,213.0	34.27	36.398		
6,900.0	6,807.3	6,894.4	6,784.4	21.2	22.6	75.90	691.6	1,923.5	1,247.3	1,212.9	34.34	36.326		
6,935.0	6,842.3	6,929.4	6,819.4	21.2	22.6	75.90	691.6	1,923.5	1,247.3	1,212.9	34.38	36.284		
7,000.0	6,907.3	6,994.4	6,884.4	21.3	22.6	75.90	691.6	1,923.5	1,247.3	1,212.8	34.45	36.206		
7,030.0	6,937.3	7,024.4	6,914.4	21.3	22.6	75.90	691.6	1,923.5	1,247.3	1,212.8	34.48	36.172		
7,100.0	7,007.3	7,096.0	6,985.9	21.3	22.7	75.90	691.6	1,923.5	1,247.3	1,212.7	34.56	36.094		
7,125.0	7,032.3	7,151.0	7,040.9	21.3	22.7	76.03	688.7	1,923.5	1,246.9	1,212.4	34.57	36.072		
7,200.0	7,107.3	7,306.4	7,191.4	21.3	22.8	77.66	652.3	1,923.2	1,242.6	1,208.0	34.65	35.860		
7,220.0	7,127.3	7,343.7	7,225.7	21.4	22.9	78.32	637.6	1,923.1	1,240.8	1,206.1	34.69	35.765		
7,300.0	7,207.3	7,471.2	7,334.3	21.4	23.0	81.36	571.3	1,922.5	1,231.8	1,196.8	34.94	35.258		
7,315.0	7,222.3	7,491.3	7,349.9	21.4	23.0	81.95	558.7	1,922.4	1,229.9	1,194.9	34.99	35.148		
7,400.0	7,307.3	7,585.8	7,417.2	21.4	23.1	85.04	492.5	1,921.9	1,219.9	1,184.6	35.34	34.524		
7,410.0	7,317.3	7,595.0	7,423.2	21.4	23.1	85.37	485.5	1,921.9	1,218.8	1,183.5	35.38	34.454		
7,500.0	7,407.3	7,664.2	7,464.2	21.5	23.1	88.01	429.7	1,921.4	1,211.0	1,175.3	35.70	33.917		
7,505.0	7,412.3	7,667.5	7,465.9	21.5	23.1	88.14	427.0	1,921.4	1,210.7	1,174.9	35.72	33.892		
7,600.0	7,507.3	7,719.4	7,491.9	21.5	23.2	90.27	382.0	1,921.0	1,207.3	1,171.3	35.97	33.567		
7,609.5	7,516.7	7,723.8	7,493.9	21.5	23.2	90.46	378.1	1,921.0	1,207.2	1,171.3	35.98	33.550 CC, ES		
7,695.0	7,602.3	7,757.9	7,508.4	21.6	23.2	91.92	347.2	1,920.8	1,209.7	1,173.6	36.09	33.520 SF		
7,700.0	7,607.3	7,759.7	7,509.1	21.6	23.2	92.00	345.6	1,920.7	1,210.0	1,173.9	36.09	33.526		
7,790.0	7,697.3	7,787.4	7,519.5	21.6	23.2	93.21	320.0	1,920.5	1,218.5	1,182.4	36.09	33.761		
7,800.0	7,707.3	7,790.1	7,520.4	21.6	23.2	93.33	317.4	1,920.5	1,219.8	1,183.8	36.09	33.804		
7,885.0	7,792.3	7,810.5	7,527.1	21.7	23.3	94.24	298.2	1,920.4	1,233.9	1,197.9	35.99	34.287		
7,900.0	7,807.3	7,813.7	7,528.1	21.7	23.3	94.39	295.1	1,920.3	1,236.9	1,201.0	35.96	34.396		
7,980.0	7,887.3	7,829.0	7,532.7	21.7	23.3	95.08	280.5	1,920.2	1,255.8	1,220.0	35.79	35.085		
8,000.0	7,907.3	7,832.5	7,533.6	21.7	23.3	95.24	277.1	1,920.2	1,261.2	1,225.5	35.74	35.286		
8,075.0	7,982.3	7,850.0	7,538.2	21.8	23.3	96.03	260.2	1,920.1	1,284.0	1,248.5	35.56	36.113		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design:	FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #502H - OWB - PWP0											Offset Site Error:	0.0 usft
Survey Program:	0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7093-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Rule Assigned:							
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
8,100.0	8,007.3	7,850.0	7,538.2	21.8	23.3	96.03	260.2	1,920.1	1,292.4	1,257.0	35.46	36.445	
8,170.0	8,077.3	7,850.0	7,538.2	21.8	23.3	96.03	260.2	1,920.1	1,318.2	1,283.0	35.19	37.456	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #503H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program:		0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7106-r.5 MWD+IFR1+MS							Rule Assigned:		Offset Well Error: 3.0 usft			
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
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		
1,520.0	1,520.0	1,522.8	1,522.8	4.7	3.6	140.02	-151.1	-59.5	162.4	154.2	8.22	19.757		
1,600.0	1,600.0	1,602.8	1,602.8	4.8	3.6	140.38	-151.1	-59.5	163.7	155.3	8.40	19.484		
1,615.0	1,615.0	1,617.8	1,617.8	4.9	3.6	140.50	-151.1	-59.5	164.2	155.7	8.45	19.439		
1,700.0	1,699.8	1,702.6	1,702.6	5.1	3.7	141.47	-151.1	-59.5	167.8	159.1	8.69	19.314		
1,710.0	1,709.8	1,712.6	1,712.6	5.1	3.7	141.61	-151.1	-59.5	168.4	159.6	8.72	19.314		
1,800.0	1,799.5	1,802.3	1,802.3	5.3	3.8	143.16	-151.1	-59.5	174.7	165.7	8.98	19.445		
1,805.0	1,804.4	1,807.2	1,807.2	5.3	3.8	143.26	-151.1	-59.5	175.1	166.1	9.00	19.459		
1,900.0	1,898.7	1,901.5	1,901.5	5.6	3.9	145.31	-151.1	-59.5	184.6	175.3	9.30	19.852		
1,995.0	1,992.5	1,995.3	1,995.3	5.9	3.9	147.62	-151.1	-59.5	197.0	187.4	9.62	20.474		
2,000.0	1,997.5	2,000.3	2,000.3	5.9	3.9	147.74	-151.1	-59.5	197.7	188.1	9.64	20.513		
2,090.0	2,085.8	2,095.6	2,095.6	6.2	4.1	150.17	-149.9	-58.5	210.9	200.8	10.13	20.810		
2,100.0	2,095.6	2,106.3	2,106.2	6.3	4.2	150.44	-149.6	-58.2	212.4	202.2	10.20	20.826		
2,185.0	2,178.5	2,196.8	2,196.6	6.6	4.4	152.72	-145.9	-55.2	224.7	213.9	10.76	20.878		
2,200.1	2,193.2	2,212.9	2,212.7	6.6	4.5	153.13	-145.0	-54.4	226.8	216.0	10.86	20.881		
2,280.0	2,270.7	2,298.7	2,298.1	6.9	4.7	155.26	-139.1	-49.5	237.3	225.9	11.38	20.854		
2,300.0	2,290.1	2,320.3	2,319.6	6.9	4.8	155.76	-137.4	-48.1	239.6	228.1	11.51	20.812		
2,375.0	2,362.9	2,401.5	2,400.1	7.2	5.0	157.54	-129.5	-41.5	247.0	234.9	12.03	20.536		
2,400.0	2,387.1	2,428.6	2,427.0	7.3	5.1	158.11	-126.5	-39.0	249.0	236.8	12.20	20.409		
2,470.0	2,455.0	2,504.9	2,502.3	7.5	5.4	159.67	-117.0	-31.1	253.5	240.8	12.71	19.949		
2,500.0	2,484.1	2,537.6	2,534.5	7.6	5.5	160.32	-112.4	-27.3	255.0	242.0	12.93	19.716		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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		Distance		Minimum Separation		Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
2,565.0	2,547.2	2,608.7	2,604.1	7.8	5.8	161.73	-101.6	-18.3	257.0	243.6	13.43	19.139	
2,600.0	2,581.2	2,647.0	2,641.5	8.0	5.9	162.49	-95.2	-12.9	257.5	243.8	13.70	18.795	
2,660.0	2,639.4	2,712.6	2,705.3	8.2	6.2	163.80	-83.3	-3.1	257.3	243.1	14.15	18.180	
2,700.0	2,678.2	2,753.6	2,745.0	8.3	6.3	164.64	-75.5	3.5	256.6	242.2	14.42	17.794	
2,755.0	2,731.6	2,808.3	2,798.0	8.6	6.5	165.76	-64.9	12.2	255.8	241.0	14.82	17.259	
2,800.0	2,775.2	2,853.1	2,841.3	8.7	6.6	166.68	-56.3	19.4	255.1	240.0	15.17	16.825	
2,850.0	2,823.7	2,902.9	2,889.5	8.9	6.8	167.72	-46.7	27.4	254.5	239.0	15.55	16.364	
2,900.0	2,872.3	2,952.7	2,937.7	9.1	7.0	168.75	-37.2	35.4	254.0	238.1	15.95	15.926	
2,945.0	2,915.9	2,997.5	2,981.1	9.3	7.1	169.69	-28.5	42.6	253.6	237.3	16.31	15.551	
3,000.0	2,969.3	3,052.3	3,034.1	9.5	7.3	170.84	-18.0	51.3	253.2	236.4	16.75	15.117	
3,040.0	3,008.1	3,092.1	3,072.7	9.7	7.5	171.67	-10.3	57.7	253.0	235.9	17.07	14.817	
3,100.0	3,066.3	3,151.8	3,130.5	9.9	7.7	172.93	1.2	67.3	252.7	235.2	17.56	14.393	
3,135.0	3,100.3	3,186.7	3,164.3	10.1	7.9	173.67	7.9	72.9	252.6	234.8	17.84	14.158	
3,187.1	3,150.9	3,238.6	3,214.5	10.3	8.1	174.76	17.9	81.2	252.6	234.3	18.27	13.827	
3,200.0	3,163.3	3,251.4	3,226.9	10.4	8.1	175.03	20.3	83.3	252.6	234.2	18.37	13.748	
3,230.0	3,192.4	3,281.3	3,255.8	10.5	8.3	175.66	26.1	88.0	252.6	234.0	18.62	13.570	
3,300.0	3,260.4	3,351.0	3,323.3	10.8	8.5	177.13	39.5	99.2	252.8	233.6	19.18	13.178	
3,325.0	3,284.6	3,375.9	3,347.4	10.9	8.6	177.66	44.3	103.2	252.9	233.5	19.39	13.046	
3,400.0	3,357.4	3,450.5	3,419.7	11.2	9.0	179.22	58.6	115.2	253.4	233.4	19.99	12.675	
3,420.0	3,376.8	3,470.5	3,439.0	11.3	9.0	179.64	62.5	118.4	253.5	233.4	20.15	12.582	
3,500.0	3,454.4	3,550.1	3,516.1	11.7	9.4	-178.70	77.8	131.1	254.3	233.5	20.78	12.234	
3,515.0	3,469.0	3,565.0	3,530.6	11.7	9.5	-178.38	80.7	133.5	254.4	233.5	20.90	12.173	
3,600.0	3,551.5	3,649.7	3,612.5	12.1	9.8	-176.63	97.0	147.1	255.5	233.9	21.56	11.849	
3,610.0	3,561.2	3,659.6	3,622.1	12.1	9.9	-176.43	98.9	148.7	255.6	234.0	21.64	11.814	
3,700.0	3,648.5	3,749.2	3,708.9	12.5	10.3	-174.59	116.1	163.0	257.1	234.7	22.32	11.516	
3,705.0	3,653.3	3,754.2	3,713.7	12.6	10.3	-174.49	117.1	163.8	257.1	234.8	22.36	11.500	
3,800.0	3,745.5	3,848.8	3,805.3	13.0	10.7	-172.58	135.3	179.0	258.9	235.9	23.06	11.228	
3,895.0	3,837.7	3,943.4	3,896.9	13.4	11.1	-170.69	153.5	194.1	261.0	237.3	23.75	10.993	
3,900.0	3,842.5	3,948.4	3,901.7	13.4	11.1	-170.59	154.4	194.9	261.2	237.4	23.78	10.982	
3,990.0	3,929.9	4,038.0	3,988.4	13.8	11.6	-168.84	171.7	209.3	263.4	239.0	24.41	10.793	
4,000.0	3,939.6	4,047.9	3,998.1	13.9	11.6	-168.64	173.6	210.9	263.7	239.2	24.47	10.773	
4,085.0	4,022.0	4,132.6	4,080.0	14.3	12.0	-167.02	189.9	224.5	266.0	241.0	25.04	10.623	
4,100.0	4,036.6	4,147.5	4,094.5	14.3	12.1	-166.73	192.8	226.9	266.5	241.3	25.14	10.599	
4,180.0	4,114.2	4,227.2	4,171.6	14.7	12.4	-165.24	208.1	239.6	268.9	243.3	25.66	10.482	
4,200.0	4,133.6	4,247.1	4,190.9	14.8	12.5	-164.87	211.9	242.8	269.6	243.8	25.79	10.455	
4,275.0	4,206.4	4,321.8	4,263.2	15.2	12.9	-163.49	226.3	254.8	272.1	245.9	26.25	10.366	
4,300.0	4,230.7	4,346.6	4,287.3	15.3	13.0	-163.04	231.1	258.8	273.0	246.6	26.40	10.339	
4,370.0	4,298.6	4,416.3	4,354.7	15.6	13.3	-161.79	244.5	269.9	275.5	248.7	26.82	10.273	
4,400.0	4,327.7	4,446.2	4,383.6	15.7	13.4	-161.27	250.3	274.7	276.6	249.6	26.99	10.248	
4,465.0	4,390.8	4,510.9	4,446.3	16.0	13.7	-160.14	262.7	285.1	279.2	251.8	27.37	10.201	
4,500.0	4,424.7	4,545.8	4,480.0	16.2	13.9	-159.54	269.4	290.7	280.6	253.0	27.56	10.180	
4,560.0	4,482.9	4,605.5	4,537.9	16.5	14.2	-158.52	280.9	300.3	283.0	255.1	27.89	10.148	
4,600.0	4,521.7	4,645.3	4,576.4	16.7	14.4	-157.86	288.6	306.6	284.7	256.6	28.10	10.131	
4,655.0	4,575.1	4,700.1	4,629.5	16.9	14.6	-156.95	299.1	315.4	287.1	258.7	28.39	10.113	
4,700.0	4,618.8	4,744.9	4,672.8	17.1	14.8	-156.22	307.7	322.6	289.1	260.5	28.62	10.101	
4,750.0	4,667.3	4,794.7	4,721.0	17.4	15.1	-155.43	317.3	330.6	291.4	262.6	28.88	10.092	
4,800.0	4,715.8	4,844.5	4,769.2	17.6	15.3	-154.64	326.9	338.5	293.8	264.7	29.12	10.088	
4,845.0	4,759.5	4,889.3	4,812.6	17.8	15.5	-153.95	335.5	345.7	295.9	266.6	29.33	10.090	
4,853.6	4,767.8	4,897.9	4,820.9	17.8	15.6	-153.82	337.2	347.1	296.4	267.0	29.37	10.091	
4,900.0	4,812.9	4,944.0	4,865.6	18.0	15.8	-153.10	346.1	354.5	298.3	268.7	29.57	10.089	
4,940.0	4,851.9	4,983.9	4,904.2	18.2	16.0	-152.43	353.7	360.9	299.5	269.7	29.74	10.071	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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		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		
5,000.0	4,910.7	5,043.6	4,962.0	18.5	16.2	-151.33	365.2	370.5	300.4	270.5	29.96	10.027			
5,035.0	4,945.1	5,078.4	4,995.7	18.7	16.4	-150.64	371.9	376.0	300.5	270.4	30.07	9.995			
5,100.0	5,009.2	5,143.0	5,058.2	19.0	16.7	-149.24	384.3	386.4	299.8	269.6	30.22	9.921			
5,130.0	5,038.8	5,172.7	5,087.0	19.1	16.9	-148.54	390.1	391.2	299.1	268.9	30.26	9.884			
5,200.0	5,108.2	5,242.1	5,154.2	19.4	17.2	-146.76	403.4	402.3	296.7	266.4	30.31	9.788			
5,225.0	5,133.0	5,266.8	5,178.1	19.5	17.3	-146.07	408.2	406.2	295.5	265.2	30.30	9.754			
5,300.0	5,207.6	5,340.8	5,249.7	19.9	17.7	-143.81	422.4	418.1	291.3	261.1	30.20	9.647			
5,320.0	5,227.5	5,360.5	5,268.8	19.9	17.8	-143.16	426.2	421.2	290.0	259.8	30.14	9.620			
5,400.0	5,307.3	5,439.0	5,344.8	20.2	18.1	-140.32	441.3	433.8	284.0	254.2	29.83	9.520			
5,415.0	5,322.3	5,453.7	5,359.0	20.3	18.2	-139.74	444.1	436.2	282.8	253.0	29.75	9.505			
5,500.0	5,407.3	5,536.6	5,439.3	20.6	18.6	-136.18	460.1	449.5	275.3	246.1	29.17	9.437			
5,510.0	5,417.3	5,546.3	5,448.7	20.6	18.6	-135.72	462.0	451.0	274.3	245.3	29.07	9.435			
5,553.7	5,461.0	5,588.8	5,489.8	20.6	18.8	-72.15	470.1	457.8	270.2	241.5	28.63	9.438			
5,600.0	5,507.3	5,633.5	5,533.1	20.7	19.1	-69.90	478.7	465.0	265.9	237.9	28.08	9.469			
5,605.0	5,512.3	5,638.4	5,537.8	20.7	19.1	-69.65	479.7	465.8	265.5	237.5	28.03	9.473			
5,700.0	5,607.3	5,730.4	5,626.9	20.7	19.5	-64.82	497.4	480.5	258.3	231.4	26.92	9.595			
5,795.0	5,702.3	5,822.3	5,715.9	20.7	20.0	-59.77	515.1	495.3	253.2	227.3	25.89	9.780			
5,800.0	5,707.3	5,827.2	5,720.6	20.7	20.0	-59.49	516.0	496.0	253.0	227.1	25.84	9.791			
5,890.0	5,797.3	5,914.3	5,805.0	20.8	20.4	-54.56	532.8	510.0	250.2	225.2	25.05	9.988			
5,900.0	5,807.3	5,924.0	5,814.3	20.8	20.5	-54.00	534.6	511.5	250.0	225.1	24.98	10.009			
5,968.1	5,875.4	5,989.9	5,878.2	20.8	20.8	-50.21	547.3	522.1	249.5	224.9	24.60	10.140			
5,985.0	5,892.3	6,006.3	5,894.0	20.8	20.9	-49.27	550.5	524.7	249.5	225.0	24.54	10.167			
6,000.0	5,907.3	6,020.8	5,908.1	20.8	20.9	-48.44	553.3	527.1	249.6	225.1	24.49	10.190			
6,080.0	5,987.3	6,098.2	5,983.0	20.9	21.3	-44.01	568.2	539.5	251.0	226.6	24.43	10.273			
6,100.0	6,007.3	6,117.6	6,001.8	20.9	21.4	-42.91	571.9	542.6	251.6	227.2	24.47	10.284			
6,175.0	6,082.3	6,190.2	6,072.1	20.9	21.7	-38.85	585.9	554.2	254.8	230.0	24.77	10.288			
6,200.0	6,107.3	6,214.8	6,095.9	20.9	21.9	-37.51	590.6	558.1	256.1	231.2	24.92	10.277			
6,270.0	6,177.3	6,284.6	6,163.8	20.9	22.2	-34.03	603.0	568.4	260.3	234.8	25.47	10.218			
6,300.0	6,207.3	6,314.7	6,193.2	21.0	22.4	-32.67	607.9	572.6	262.2	236.4	25.74	10.185			
6,365.0	6,272.3	6,380.4	6,257.6	21.0	22.7	-30.00	617.9	580.9	266.4	240.0	26.36	10.108			
6,400.0	6,307.3	6,416.0	6,292.6	21.0	22.8	-28.71	622.9	585.0	268.7	242.0	26.70	10.065			
6,460.0	6,367.3	6,477.4	6,353.2	21.0	23.1	-26.73	630.6	591.5	272.5	245.2	27.27	9.994			
6,500.0	6,407.3	6,518.6	6,394.0	21.0	23.3	-25.57	635.3	595.3	274.9	247.3	27.63	9.949			
6,555.0	6,462.3	6,575.5	6,450.4	21.1	23.6	-24.19	640.9	600.0	278.0	249.9	28.10	9.893			
6,600.0	6,507.3	6,622.3	6,496.9	21.1	23.8	-23.23	644.9	603.4	280.2	251.8	28.45	9.850			
6,650.0	6,557.3	6,674.4	6,548.8	21.1	24.0	-22.34	648.7	606.5	282.4	253.6	28.80	9.807			
6,700.0	6,607.3	6,726.7	6,600.9	21.1	24.2	-21.63	651.8	609.1	284.2	255.1	29.09	9.769			
6,745.0	6,652.3	6,773.9	6,648.0	21.1	24.4	-21.14	653.9	610.9	285.5	256.2	29.32	9.737			
6,800.0	6,707.3	6,831.7	6,705.8	21.2	24.6	-20.73	655.7	612.3	286.6	257.1	29.53	9.704			
6,840.0	6,747.3	6,873.8	6,747.8	21.2	24.7	-20.57	656.4	613.0	287.0	257.4	29.65	9.683			
6,900.0	6,807.3	6,936.0	6,810.1	21.2	24.8	-20.50	656.7	613.2	287.2	257.5	29.73	9.659			
6,935.0	6,842.3	6,971.0	6,845.1	21.2	24.8	-20.50	656.7	613.2	287.2	257.4	29.78	9.645			
7,000.0	6,907.3	7,036.0	6,910.1	21.3	24.8	-20.50	656.7	613.2	287.2	257.4	29.86	9.619			
7,030.0	6,937.3	7,066.0	6,940.1	21.3	24.8	-20.50	656.7	613.2	287.2	257.3	29.90	9.606			
7,100.0	7,007.3	7,162.2	7,036.2	21.3	24.9	-20.70	654.0	613.2	285.8	256.3	29.51	9.687			
7,125.0	7,032.3	7,208.3	7,081.8	21.3	24.9	-21.17	647.6	613.1	282.6	253.6	29.04	9.733			
7,200.0	7,107.3	7,337.0	7,204.8	21.3	25.0	-24.36	610.8	612.8	262.6	235.2	27.39	9.588			
7,220.0	7,127.3	7,368.0	7,233.0	21.4	25.0	-25.70	597.8	612.7	254.9	227.9	26.98	9.447			
7,300.0	7,207.3	7,476.4	7,325.2	21.4	25.1	-33.51	541.1	612.2	217.0	191.0	26.07	8.327			
7,315.0	7,222.3	7,493.9	7,339.0	21.4	25.1	-35.49	530.3	612.1	209.0	182.9	26.07	8.016			
7,400.0	7,307.3	7,578.7	7,400.9	21.4	25.2	-50.31	472.5	611.6	160.9	133.3	27.67	5.817			

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #503H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program:		0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7106-r.5 MWD+IFR1+MS					Rule Assigned:				Offset Well Error:	3.0 usft		
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance						Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
7,410.0	7,317.3	7,587.2	7,406.7	21.4	25.2	-52.48	466.2	611.5	155.3	127.2	28.08	5.532		
7,500.0	7,407.3	7,652.7	7,447.5	21.5	25.2	-75.05	415.1	611.1	112.7	78.4	34.26	3.289		
7,505.0	7,412.3	7,655.8	7,449.3	21.5	25.2	-76.39	412.6	611.1	111.1	76.4	34.68	3.203		
7,555.1	7,462.4	7,684.6	7,465.2	21.5	25.2	-89.50	388.6	610.9	102.9	65.1	37.87	2.718	CC, ES, SF	
7,600.0	7,507.3	7,707.0	7,476.7	21.5	25.3	-100.06	369.4	610.7	109.9	72.2	37.64	2.919		
7,695.0	7,602.3	7,750.0	7,496.8	21.6	25.3	-118.59	331.3	610.4	160.0	127.2	32.85	4.870		
7,700.0	7,607.3	7,750.0	7,496.8	21.6	25.3	-118.59	331.3	610.4	163.4	131.0	32.39	5.045		
7,790.0	7,697.3	7,776.6	7,507.7	21.6	25.3	-127.86	307.1	610.2	232.9	203.9	29.03	8.022		
7,800.0	7,707.3	7,779.4	7,508.8	21.6	25.3	-128.74	304.5	610.1	241.2	212.4	28.82	8.371		
7,885.0	7,792.3	7,800.0	7,516.4	21.7	25.3	-134.59	285.4	610.0	314.5	286.9	27.57	11.409		
7,900.0	7,807.3	7,800.0	7,516.4	21.7	25.3	-134.59	285.4	610.0	327.9	300.6	27.33	11.997		
7,980.0	7,887.3	7,820.8	7,523.3	21.7	25.3	-139.54	265.8	609.8	400.2	373.2	27.06	14.790		
8,000.0	7,907.3	7,824.5	7,524.5	21.7	25.3	-140.34	262.2	609.8	418.6	391.6	27.01	15.499		
8,075.0	7,982.3	7,837.3	7,528.3	21.8	25.4	-142.89	250.1	609.7	488.2	461.3	26.93	18.131		
8,100.0	8,007.3	7,850.0	7,531.9	21.8	25.4	-145.18	237.9	609.6	511.8	484.8	27.05	18.920		
8,170.0	8,077.3	7,850.0	7,531.9	21.8	25.4	-145.18	237.9	609.6	577.8	550.8	26.99	21.408		
8,200.0	8,107.3	7,850.0	7,531.9	21.8	25.4	-145.18	237.9	609.6	606.3	579.3	27.00	22.453		
8,265.0	8,172.3	7,850.0	7,531.9	21.8	25.4	-145.18	237.9	609.6	668.6	641.5	27.09	24.678		
8,300.0	8,207.3	7,866.8	7,536.2	21.9	25.4	-147.86	221.6	609.4	701.9	674.6	27.26	25.746		
8,360.0	8,267.3	7,873.1	7,537.6	21.9	25.4	-148.76	215.5	609.4	759.6	732.2	27.42	27.705		
8,400.0	8,307.3	7,876.9	7,538.5	21.9	25.4	-149.30	211.8	609.3	798.2	770.7	27.53	28.996		
8,455.0	8,362.3	7,881.9	7,539.6	21.9	25.4	-149.97	206.9	609.3	851.4	823.8	27.69	30.750		
8,485.8	8,393.0	7,884.5	7,540.2	21.9	25.4	-150.31	204.4	609.3	881.3	853.5	27.78	31.723		
8,500.0	8,407.3	7,900.0	7,543.2	21.9	25.4	24.99	189.2	609.1	895.4	867.6	27.80	32.207		
8,550.0	8,457.1	7,900.0	7,543.2	22.0	25.4	19.10	189.2	609.1	943.0	915.1	27.94	33.746		
8,600.0	8,506.5	7,900.0	7,543.2	22.0	25.4	15.32	189.2	609.1	989.6	961.5	28.10	35.215		
8,645.0	8,550.2	7,900.0	7,543.2	22.0	25.4	12.94	189.2	609.1	1,030.4	1,002.2	28.26	36.464		
8,650.0	8,555.0	7,900.0	7,543.2	22.0	25.4	12.72	189.2	609.1	1,034.9	1,006.6	28.28	36.599		
8,700.0	8,602.3	7,900.0	7,543.2	22.0	25.4	10.85	189.2	609.1	1,078.8	1,050.3	28.47	37.888		
8,740.0	8,639.0	7,920.7	7,546.7	22.0	25.4	9.44	168.8	609.0	1,112.2	1,083.5	28.66	38.799		
8,750.0	8,648.0	7,922.6	7,546.9	22.1	25.4	9.19	166.9	609.0	1,120.4	1,091.7	28.71	39.025		
8,800.0	8,691.7	7,932.6	7,548.3	22.1	25.4	8.09	157.0	608.9	1,160.3	1,131.3	28.94	40.086		
8,835.0	8,721.0	7,950.0	7,550.3	22.1	25.4	7.41	139.7	608.7	1,187.1	1,157.9	29.12	40.758		
8,850.0	8,733.2	7,950.0	7,550.3	22.1	25.4	7.20	139.7	608.7	1,198.1	1,168.9	29.20	41.032		
8,900.0	8,772.1	7,950.0	7,550.3	22.1	25.4	6.60	139.7	608.7	1,233.5	1,204.0	29.46	41.868		
8,930.0	8,794.1	7,950.0	7,550.3	22.2	25.4	6.29	139.7	608.7	1,253.7	1,224.1	29.63	42.311		
8,950.0	8,808.1	7,950.0	7,550.3	22.2	25.4	6.10	139.7	608.7	1,266.8	1,237.1	29.75	42.583		
9,000.0	8,841.0	7,978.6	7,552.3	22.2	25.4	5.61	111.2	608.5	1,297.0	1,266.9	30.04	43.171		
9,025.0	8,856.1	8,000.0	7,553.0	22.2	25.4	5.38	89.8	608.3	1,311.5	1,281.3	30.19	43.441		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #504H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7065-r.5 MWD+IFR1+MS				Rule Assigned:					Offset Well Error: 3.0 usft					
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance					
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside							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)			
0.0	0.0	3.7	3.7	3.0	3.0	-141.84	-152.1	-119.5	193.4					
95.0	95.0	98.7	98.7	3.0	3.0	-141.84	-152.1	-119.5	193.4	187.4	6.02	32.142		
100.0	100.0	103.7	103.7	3.0	3.0	-141.84	-152.1	-119.5	193.4	187.4	6.02	32.126		
190.0	190.0	193.7	193.7	3.1	3.0	-141.84	-152.1	-119.5	193.4	187.3	6.13	31.547		
200.0	200.0	203.7	203.7	3.1	3.0	-141.84	-152.1	-119.5	193.4	187.3	6.15	31.455		
285.0	285.0	288.7	288.7	3.3	3.0	-141.84	-152.1	-119.5	193.4	187.2	6.26	30.910		
300.0	300.0	303.7	303.7	3.3	3.0	-141.84	-152.1	-119.5	193.4	187.1	6.28	30.803		
380.0	380.0	383.7	383.7	3.4	3.0	-141.84	-152.1	-119.5	193.4	187.0	6.38	30.301		
400.0	400.0	403.7	403.7	3.4	3.0	-141.84	-152.1	-119.5	193.4	187.0	6.41	30.167		
475.0	475.0	478.7	478.7	3.5	3.0	-141.84	-152.1	-119.5	193.4	186.9	6.51	29.707		
500.0	500.0	503.7	503.7	3.5	3.1	-141.84	-152.1	-119.5	193.4	186.9	6.55	29.547		
570.0	570.0	573.7	573.7	3.6	3.1	-141.84	-152.1	-119.5	193.4	186.8	6.64	29.128		
600.0	600.0	603.7	603.7	3.6	3.1	-141.84	-152.1	-119.5	193.4	186.7	6.68	28.943		
665.0	665.0	668.7	668.7	3.7	3.1	-141.84	-152.1	-119.5	193.4	186.7	6.77	28.561		
700.0	700.0	703.7	703.7	3.8	3.1	-141.84	-152.1	-119.5	193.4	186.6	6.82	28.352		
760.0	760.0	763.7	763.7	3.8	3.1	-141.84	-152.1	-119.5	193.4	186.5	6.91	28.008		
800.0	800.0	803.7	803.7	3.9	3.2	-141.84	-152.1	-119.5	193.4	186.5	6.96	27.776		
855.0	855.0	858.7	858.7	4.0	3.2	-141.84	-152.1	-119.5	193.4	186.4	7.04	27.467		
900.0	900.0	903.7	903.7	4.0	3.2	-141.84	-152.1	-119.5	193.4	186.3	7.11	27.213		
950.0	950.0	953.7	953.7	4.1	3.2	-141.84	-152.1	-119.5	193.4	186.2	7.18	26.939		
1,000.0	1,000.0	1,003.7	1,003.7	4.1	3.2	-141.84	-152.1	-119.5	193.4	186.2	7.25	26.663		
1,045.0	1,045.0	1,048.7	1,048.7	4.2	3.3	-141.84	-152.1	-119.5	193.4	186.1	7.32	26.422		
1,100.0	1,100.0	1,103.7	1,103.7	4.2	3.3	-141.84	-152.1	-119.5	193.4	186.0	7.40	26.127		
1,140.0	1,140.0	1,143.7	1,143.7	4.3	3.3	-141.84	-152.1	-119.5	193.4	186.0	7.46	25.917		
1,200.0	1,200.0	1,203.7	1,203.7	4.4	3.4	-141.84	-152.1	-119.5	193.4	185.9	7.55	25.603		
1,235.0	1,235.0	1,238.7	1,238.7	4.4	3.4	-141.84	-152.1	-119.5	193.4	185.8	7.61	25.425		
1,300.0	1,300.0	1,303.7	1,303.7	4.5	3.4	-141.84	-152.1	-119.5	193.4	185.7	7.71	25.093		
1,330.0	1,330.0	1,333.7	1,333.7	4.5	3.4	-141.84	-152.1	-119.5	193.4	185.7	7.75	24.943		
1,400.0	1,400.0	1,403.7	1,403.7	4.6	3.5	-141.84	-152.1	-119.5	193.4	185.6	7.86	24.595		
1,425.0	1,425.0	1,428.7	1,428.7	4.6	3.5	-141.84	-152.1	-119.5	193.4	185.5	7.90	24.474		
1,500.0	1,500.0	1,503.7	1,503.7	4.7	3.5	-141.84	-152.1	-119.5	193.4	185.4	8.02	24.111	CC, ES	
1,520.0	1,520.0	1,523.7	1,523.7	4.7	3.6	156.67	-152.1	-119.5	193.5	185.4	8.06	24.000		
1,600.0	1,600.0	1,603.7	1,603.7	4.8	3.6	156.85	-152.1	-119.5	195.0	186.8	8.26	23.621		
1,615.0	1,615.0	1,618.7	1,618.7	4.9	3.6	156.92	-152.1	-119.5	195.5	187.2	8.30	23.557		
1,700.0	1,699.8	1,703.5	1,703.5	5.1	3.7	157.41	-152.1	-119.5	199.9	191.3	8.56	23.343		
1,710.0	1,709.8	1,713.5	1,713.5	5.1	3.7	157.48	-152.1	-119.5	200.5	191.9	8.59	23.335	SF	
1,800.0	1,799.5	1,803.2	1,803.2	5.3	3.8	158.27	-152.1	-119.5	207.9	199.1	8.88	23.417		
1,805.0	1,804.4	1,808.1	1,808.1	5.3	3.8	158.32	-152.1	-119.5	208.4	199.5	8.90	23.429		
1,900.0	1,898.7	1,902.4	1,902.4	5.6	3.9	159.37	-152.1	-119.5	219.3	210.1	9.22	23.799		
1,995.0	1,992.5	1,996.2	1,996.2	5.9	3.9	160.55	-152.1	-119.5	233.2	223.7	9.55	24.413		
2,000.0	1,997.5	2,001.2	2,001.2	5.9	3.9	160.62	-152.1	-119.5	234.0	224.5	9.57	24.449		
2,090.0	2,085.8	2,090.9	2,090.9	6.2	4.1	162.16	-150.9	-120.4	249.9	240.0	9.97	25.077		
2,100.0	2,095.6	2,100.8	2,100.8	6.3	4.1	162.36	-150.7	-120.5	251.8	241.8	10.01	25.168		
2,185.0	2,178.5	2,184.6	2,184.4	6.6	4.4	164.38	-147.3	-123.0	269.4	258.9	10.45	25.776		
2,200.1	2,193.2	2,199.4	2,199.2	6.6	4.4	164.78	-146.5	-123.6	272.7	262.2	10.53	25.899		
2,280.0	2,270.7	2,277.2	2,276.7	6.9	4.7	167.07	-141.3	-127.4	290.9	280.0	10.90	26.677		
2,300.0	2,290.1	2,296.6	2,296.1	6.9	4.7	167.67	-139.7	-128.6	295.4	284.4	11.00	26.865		
2,375.0	2,362.9	2,369.0	2,368.0	7.2	5.0	169.94	-133.0	-133.5	312.8	301.4	11.35	27.549		
2,400.0	2,387.1	2,393.0	2,391.8	7.3	5.0	170.72	-130.4	-135.4	318.7	307.2	11.47	27.774		
2,470.0	2,455.0	2,459.9	2,457.9	7.5	5.3	172.92	-122.4	-141.3	335.4	323.6	11.82	28.388		
2,500.0	2,484.1	2,488.3	2,486.0	7.6	5.4	173.87	-118.6	-144.1	342.7	330.8	11.96	28.652		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #504H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program:		0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7065-r.5 MWD+IFR1+MS							Rule Assigned:				Offset Well Error:	3.0 usft
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Separation (usft)	Factor		
2,565.0	2,547.2	2,549.6	2,546.2	7.8	5.6	175.95	-109.7	-150.6	359.0	346.7	12.29	29.218		
2,600.0	2,581.2	2,582.4	2,578.4	8.0	5.7	177.07	-104.5	-154.4	368.0	355.5	12.46	29.527		
2,660.0	2,639.4	2,638.1	2,632.8	8.2	5.9	178.99	-95.0	-161.4	383.8	371.0	12.77	30.057		
2,700.0	2,678.2	2,674.9	2,668.7	8.3	6.1	-179.73	-88.3	-166.3	394.6	381.6	12.97	30.419		
2,755.0	2,731.6	2,725.8	2,718.1	8.6	6.2	-177.98	-78.5	-173.5	409.9	396.7	13.26	30.913		
2,800.0	2,775.2	2,767.8	2,758.8	8.7	6.4	-176.61	-70.3	-179.5	422.7	409.2	13.50	31.314		
2,850.0	2,823.7	2,814.4	2,804.1	8.9	6.5	-175.18	-61.2	-186.2	437.2	423.5	13.77	31.747		
2,900.0	2,872.3	2,861.1	2,849.4	9.1	6.7	-173.84	-52.1	-192.9	452.0	438.0	14.05	32.175		
2,945.0	2,915.9	2,903.1	2,890.2	9.3	6.8	-172.70	-43.9	-198.9	465.5	451.2	14.30	32.547		
3,000.0	2,969.3	2,954.5	2,940.0	9.5	7.0	-171.39	-33.9	-206.3	482.1	467.5	14.61	32.995		
3,040.0	3,008.1	2,991.8	2,976.2	9.7	7.2	-170.50	-26.6	-211.6	494.4	479.6	14.84	33.308		
3,100.0	3,066.3	3,047.8	3,030.6	9.9	7.4	-169.23	-15.6	-219.6	513.0	497.8	15.19	33.767		
3,135.0	3,100.3	3,080.5	3,062.3	10.1	7.5	-168.53	-9.3	-224.3	524.0	508.6	15.40	34.024		
3,200.0	3,163.3	3,141.2	3,121.1	10.4	7.7	-167.31	2.6	-233.0	544.5	528.7	15.79	34.490		
3,230.0	3,192.4	3,169.2	3,148.3	10.5	7.9	-166.77	8.0	-237.0	554.1	538.1	15.97	34.696		
3,300.0	3,260.4	3,234.6	3,211.7	10.8	8.1	-165.59	20.8	-246.4	576.5	560.1	16.39	35.164		
3,325.0	3,284.6	3,257.9	3,234.4	10.9	8.2	-165.19	25.3	-249.7	584.6	568.0	16.55	35.324		
3,400.0	3,357.4	3,327.9	3,302.3	11.2	8.5	-164.05	39.0	-259.7	608.9	591.9	17.01	35.790		
3,420.0	3,376.8	3,346.6	3,320.4	11.3	8.6	-163.76	42.6	-262.4	615.5	598.3	17.14	35.909		
3,500.0	3,454.4	3,421.3	3,392.9	11.7	8.9	-162.66	57.2	-273.1	641.7	624.1	17.64	36.371		
3,515.0	3,469.0	3,435.3	3,406.5	11.7	8.9	-162.46	59.9	-275.1	646.7	628.9	17.74	36.454		
3,600.0	3,551.5	3,514.6	3,483.5	12.1	9.3	-161.40	75.4	-286.4	674.8	656.5	18.28	36.910		
3,610.0	3,561.2	3,524.0	3,492.5	12.1	9.3	-161.28	77.2	-287.8	678.1	659.8	18.35	36.961		
3,700.0	3,648.5	3,608.0	3,574.1	12.5	9.7	-160.26	93.6	-299.8	708.2	689.2	18.93	37.409		
3,705.0	3,653.3	3,612.6	3,578.6	12.6	9.7	-160.21	94.5	-300.5	709.9	690.9	18.96	37.433		
3,800.0	3,745.5	3,701.3	3,664.6	13.0	10.1	-159.22	111.8	-313.2	741.8	722.2	19.59	37.872		
3,895.0	3,837.7	3,790.0	3,750.7	13.4	10.5	-158.32	129.1	-325.9	773.9	753.7	20.22	38.281		
3,900.0	3,842.5	3,794.7	3,755.2	13.4	10.5	-158.27	130.0	-326.5	775.6	755.3	20.25	38.301		
3,990.0	3,929.9	3,878.7	3,836.7	13.8	10.8	-157.49	146.4	-338.5	806.1	785.3	20.85	38.662		
4,000.0	3,939.6	3,888.0	3,845.8	13.9	10.9	-157.40	148.2	-339.9	809.5	788.6	20.92	38.700		
4,085.0	4,022.0	3,967.4	3,922.8	14.3	11.2	-156.72	163.7	-351.2	838.5	817.1	21.49	39.017		
4,100.0	4,036.6	3,981.4	3,936.4	14.3	11.3	-156.60	166.4	-353.2	843.7	822.1	21.59	39.071		
4,180.0	4,114.2	4,056.1	4,008.9	14.7	11.6	-156.00	181.0	-363.9	871.1	848.9	22.14	39.349		
4,200.0	4,133.6	4,074.8	4,027.0	14.8	11.7	-155.86	184.6	-366.6	877.9	855.7	22.27	39.416		
4,275.0	4,206.4	4,144.8	4,094.9	15.2	12.0	-155.34	198.3	-376.6	903.7	880.9	22.79	39.660		
4,300.0	4,230.7	4,168.1	4,117.6	15.3	12.1	-155.17	202.9	-380.0	912.3	889.4	22.96	39.738		
4,370.0	4,298.6	4,233.5	4,181.0	15.6	12.4	-154.72	215.6	-389.3	936.5	913.0	23.44	39.950		
4,400.0	4,327.7	4,261.5	4,208.1	15.7	12.6	-154.54	221.1	-393.3	946.8	923.2	23.65	40.039		
4,465.0	4,390.8	4,322.1	4,267.0	16.0	12.9	-154.15	232.9	-402.0	969.3	945.2	24.10	40.223		
4,500.0	4,424.7	4,354.8	4,298.7	16.2	13.0	-153.95	239.3	-406.7	981.4	957.1	24.34	40.319		
4,560.0	4,482.9	4,410.8	4,353.1	16.5	13.3	-153.61	250.2	-414.7	1,002.2	977.5	24.76	40.479		
4,600.0	4,521.7	4,448.2	4,389.3	16.7	13.4	-153.39	257.5	-420.1	1,016.1	991.1	25.04	40.582		
4,655.0	4,575.1	4,499.5	4,439.1	16.9	13.7	-153.11	267.5	-427.4	1,035.2	1,009.8	25.42	40.719		
4,700.0	4,618.8	4,541.5	4,479.9	17.1	13.9	-152.88	275.7	-433.4	1,050.8	1,025.1	25.74	40.828		
4,750.0	4,667.3	4,588.2	4,525.2	17.4	14.1	-152.63	284.8	-440.1	1,068.3	1,042.2	26.09	40.946		
4,800.0	4,715.8	4,634.9	4,570.5	17.6	14.3	-152.40	293.9	-446.8	1,085.7	1,059.2	26.44	41.060		
4,845.0	4,759.5	4,676.9	4,611.2	17.8	14.5	-152.19	302.1	-452.8	1,101.4	1,074.6	26.75	41.174		
4,853.6	4,767.8	4,685.0	4,619.0	17.8	14.5	-152.15	303.7	-453.9	1,104.4	1,077.6	26.81	41.195		
4,900.0	4,812.9	4,728.3	4,661.1	18.0	14.7	-152.09	312.1	-460.2	1,120.3	1,093.1	27.12	41.300		
4,940.0	4,851.9	4,765.9	4,697.6	18.2	14.9	-152.03	319.5	-465.5	1,133.5	1,106.0	27.41	41.348		
5,000.0	4,910.7	4,822.5	4,752.5	18.5	15.2	-151.90	330.5	-473.6	1,152.4	1,124.6	27.85	41.386		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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		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
5,035.0	4,945.1	4,855.7	4,784.7	18.7	15.3	-151.82	337.0	-478.4	1,163.0	1,134.9	28.09	41.396
5,100.0	5,009.2	4,917.5	4,844.7	19.0	15.6	-151.63	349.0	-487.2	1,181.7	1,153.2	28.56	41.381
5,130.0	5,038.8	4,946.1	4,872.4	19.1	15.7	-151.53	354.6	-491.3	1,190.0	1,161.2	28.77	41.366
5,200.0	5,108.2	5,013.1	4,937.4	19.4	16.1	-151.27	367.7	-500.9	1,208.2	1,179.0	29.26	41.297
5,225.0	5,133.0	5,037.1	4,960.7	19.5	16.2	-151.17	372.3	-504.3	1,214.4	1,185.0	29.43	41.268
5,300.0	5,207.6	5,109.2	5,030.7	19.9	16.5	-150.84	386.4	-514.7	1,231.9	1,202.0	29.94	41.146
5,320.0	5,227.5	5,128.5	5,049.4	19.9	16.6	-150.74	390.2	-517.4	1,236.3	1,206.2	30.07	41.113
5,400.0	5,307.3	5,205.8	5,124.4	20.2	17.0	-150.32	405.3	-528.5	1,252.8	1,222.2	30.60	40.944
5,415.0	5,322.3	5,220.3	5,138.5	20.3	17.0	-150.24	408.1	-530.6	1,255.7	1,225.0	30.69	40.915
5,500.0	5,407.3	5,302.6	5,218.4	20.6	17.4	-149.73	424.1	-542.3	1,270.9	1,239.7	31.21	40.716
5,510.0	5,417.3	5,312.3	5,227.8	20.6	17.5	-149.67	426.0	-543.7	1,272.6	1,241.3	31.26	40.710
5,553.7	5,461.0	5,354.7	5,268.9	20.6	17.7	-87.89	434.3	-549.8	1,279.5	1,248.1	31.46	40.672
5,600.0	5,507.3	5,399.6	5,312.5	20.7	17.9	-87.50	443.1	-556.2	1,286.6	1,255.0	31.63	40.680
5,605.0	5,512.3	5,404.5	5,317.2	20.7	17.9	-87.46	444.0	-556.9	1,287.4	1,255.8	31.65	40.679
5,700.0	5,607.3	5,496.7	5,406.6	20.7	18.4	-86.69	462.0	-570.1	1,302.2	1,270.2	32.02	40.663
5,795.0	5,702.3	5,588.8	5,496.1	20.7	18.8	-85.93	480.0	-583.3	1,317.2	1,284.8	32.41	40.645
5,800.0	5,707.3	5,593.7	5,500.8	20.7	18.8	-85.89	480.9	-584.0	1,318.0	1,285.6	32.43	40.644

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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, 7438-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	3.5	3.5	3.0	3.0	-149.44	-151.6	-89.5	176.0	176.0	170.0	6.02	29.254	
95.0	95.0	98.5	98.5	3.0	3.0	-149.44	-151.6	-89.5	176.0	170.0	170.0	6.02	29.239	
100.0	100.0	103.5	103.5	3.0	3.0	-149.44	-151.6	-89.5	176.0	170.0	170.0	6.02	29.239	
190.0	190.0	193.5	193.5	3.1	3.0	-149.44	-151.6	-89.5	176.0	169.9	169.9	6.13	28.708	
200.0	200.0	203.5	203.5	3.1	3.0	-149.44	-151.6	-89.5	176.0	169.9	169.9	6.15	28.624	
285.0	285.0	288.5	288.5	3.3	3.0	-149.44	-151.6	-89.5	176.0	169.8	169.8	6.26	28.122	
300.0	300.0	303.5	303.5	3.3	3.0	-149.44	-151.6	-89.5	176.0	169.8	169.8	6.28	28.023	
380.0	380.0	383.5	383.5	3.4	3.0	-149.44	-151.6	-89.5	176.0	169.7	169.7	6.39	27.557	
400.0	400.0	403.5	403.5	3.4	3.0	-149.44	-151.6	-89.5	176.0	169.6	169.6	6.42	27.433	
475.0	475.0	478.5	478.5	3.5	3.0	-149.44	-151.6	-89.5	176.0	169.5	169.5	6.52	27.004	
500.0	500.0	503.5	503.5	3.5	3.1	-149.44	-151.6	-89.5	176.0	169.5	169.5	6.56	26.856	
570.0	570.0	573.5	573.5	3.6	3.1	-149.44	-151.6	-89.5	176.0	169.4	169.4	6.65	26.463	
600.0	600.0	603.5	603.5	3.6	3.1	-149.44	-151.6	-89.5	176.0	169.4	169.4	6.70	26.290	
665.0	665.0	668.5	668.5	3.7	3.1	-149.44	-151.6	-89.5	176.0	169.3	169.3	6.79	25.932	
700.0	700.0	703.5	703.5	3.8	3.1	-149.44	-151.6	-89.5	176.0	169.2	169.2	6.84	25.735	
760.0	760.0	763.5	763.5	3.8	3.1	-149.44	-151.6	-89.5	176.0	169.1	169.1	6.93	25.411	
800.0	800.0	803.5	803.5	3.9	3.2	-149.44	-151.6	-89.5	176.0	169.1	169.1	6.99	25.192	
855.0	855.0	858.5	858.5	4.0	3.2	-149.44	-151.6	-89.5	176.0	169.0	169.0	7.07	24.901	
900.0	900.0	903.5	903.5	4.0	3.2	-149.44	-151.6	-89.5	176.0	168.9	168.9	7.14	24.661	
950.0	950.0	953.5	953.5	4.1	3.2	-149.44	-151.6	-89.5	176.0	168.8	168.8	7.21	24.402	
1,000.0	1,000.0	1,003.5	1,003.5	4.1	3.2	-149.44	-151.6	-89.5	176.0	168.8	168.8	7.29	24.142	
1,045.0	1,045.0	1,048.5	1,048.5	4.2	3.3	-149.44	-151.6	-89.5	176.0	168.7	168.7	7.36	23.914	
1,100.0	1,100.0	1,103.5	1,103.5	4.2	3.3	-149.44	-151.6	-89.5	176.0	168.6	168.6	7.45	23.635	
1,140.0	1,140.0	1,143.5	1,143.5	4.3	3.3	-149.44	-151.6	-89.5	176.0	168.5	168.5	7.51	23.436	
1,200.0	1,200.0	1,203.5	1,203.5	4.4	3.4	-149.44	-151.6	-89.5	176.0	168.4	168.4	7.61	23.139	
1,235.0	1,235.0	1,238.5	1,238.5	4.4	3.4	-149.44	-151.6	-89.5	176.0	168.4	168.4	7.66	22.970	
1,300.0	1,300.0	1,303.5	1,303.5	4.5	3.4	-149.44	-151.6	-89.5	176.0	168.3	168.3	7.77	22.656	
1,330.0	1,330.0	1,333.5	1,333.5	4.5	3.4	-149.44	-151.6	-89.5	176.0	168.2	168.2	7.82	22.514	
1,400.0	1,400.0	1,403.5	1,403.5	4.6	3.5	-149.44	-151.6	-89.5	176.0	168.1	168.1	7.94	22.185	
1,425.0	1,425.0	1,428.5	1,428.5	4.6	3.5	-149.44	-151.6	-89.5	176.0	168.1	168.1	7.98	22.070	
1,500.0	1,500.0	1,503.5	1,503.5	4.7	3.5	-149.44	-151.6	-89.5	176.0	167.9	167.9	8.10	21.726 CC, ES	
1,520.0	1,520.0	1,523.5	1,523.5	4.7	3.6	149.08	-151.6	-89.5	176.1	168.0	168.0	8.14	21.628	
1,600.0	1,600.0	1,603.5	1,603.5	4.8	3.6	149.34	-151.6	-89.5	177.5	169.2	169.2	8.33	21.308	
1,615.0	1,615.0	1,618.5	1,618.5	4.9	3.6	149.43	-151.6	-89.5	178.0	169.7	169.7	8.38	21.256	
1,700.0	1,699.8	1,703.3	1,703.3	5.1	3.7	150.13	-151.6	-89.5	182.1	173.4	173.4	8.63	21.101	
1,710.0	1,709.8	1,713.3	1,713.3	5.1	3.7	150.24	-151.6	-89.5	182.7	174.0	174.0	8.66	21.099 SF	
1,800.0	1,799.5	1,803.0	1,803.0	5.3	3.8	151.37	-151.6	-89.5	189.7	180.7	180.7	8.94	21.224	
1,805.0	1,804.4	1,807.9	1,807.9	5.3	3.8	151.44	-151.6	-89.5	190.1	181.2	181.2	8.95	21.238	
1,900.0	1,898.7	1,902.2	1,902.2	5.6	3.9	152.94	-151.6	-89.5	200.5	191.2	191.2	9.26	21.642	
1,995.0	1,992.5	1,996.0	1,996.0	5.9	3.9	154.62	-151.6	-89.5	213.8	204.2	204.2	9.59	22.283	
2,000.0	1,997.5	2,001.0	2,001.0	5.9	3.9	154.71	-151.6	-89.5	214.5	204.9	204.9	9.61	22.320	
2,090.0	2,085.8	2,094.5	2,094.5	6.2	4.2	156.79	-150.1	-89.7	229.1	219.0	219.0	10.05	22.785	
2,100.0	2,095.6	2,104.9	2,104.8	6.3	4.2	157.05	-149.7	-89.8	230.8	220.6	220.6	10.11	22.833	
2,185.0	2,178.5	2,192.8	2,192.7	6.6	4.5	159.54	-145.2	-90.5	245.5	234.9	234.9	10.60	23.164	
2,200.1	2,193.2	2,208.4	2,208.2	6.6	4.5	160.02	-144.1	-90.6	248.2	237.6	237.6	10.69	23.229	
2,280.0	2,270.7	2,290.7	2,290.2	6.9	4.8	162.75	-137.0	-91.7	262.4	251.3	251.3	11.11	23.623	
2,300.0	2,290.1	2,311.4	2,310.7	6.9	4.8	163.45	-134.9	-92.0	265.8	254.6	254.6	11.21	23.706	
2,375.0	2,362.9	2,388.6	2,387.4	7.2	5.1	166.14	-125.6	-93.4	278.1	266.5	266.5	11.61	23.955	
2,400.0	2,387.1	2,414.3	2,412.8	7.3	5.2	167.05	-122.0	-93.9	282.1	270.4	270.4	11.74	24.026	
2,470.0	2,455.0	2,486.1	2,483.7	7.5	5.4	169.69	-110.9	-95.6	293.1	281.0	281.0	12.12	24.185	
2,500.0	2,484.1	2,516.7	2,513.9	7.6	5.5	170.84	-105.6	-96.4	297.7	285.4	285.4	12.26	24.283	

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 #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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, 7438-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
2,565.0	2,547.2	2,581.4	2,577.4	7.8	5.7	173.31	-93.6	-98.1	307.6	295.0	12.53	24.549	
2,600.0	2,581.2	2,615.3	2,610.7	8.0	5.8	174.55	-87.2	-99.1	313.1	300.4	12.69	24.677	
2,660.0	2,639.4	2,673.4	2,667.7	8.2	5.9	176.59	-76.3	-100.7	322.8	309.8	12.99	24.848	
2,700.0	2,678.2	2,712.1	2,705.8	8.3	6.1	177.89	-68.9	-101.8	329.6	316.4	13.20	24.975	
2,755.0	2,731.6	2,765.4	2,758.0	8.6	6.2	179.58	-58.9	-103.3	339.1	325.6	13.48	25.158	
2,800.0	2,775.2	2,808.9	2,800.8	8.7	6.4	-179.10	-50.7	-104.6	347.1	333.4	13.71	25.318	
2,850.0	2,823.7	2,857.3	2,848.3	8.9	6.6	-177.70	-41.5	-105.9	356.2	342.2	13.97	25.502	
2,900.0	2,872.3	2,905.8	2,895.8	9.1	6.7	-176.37	-32.4	-107.3	365.5	351.2	14.22	25.695	
2,945.0	2,915.9	2,949.3	2,938.6	9.3	6.9	-175.23	-24.2	-108.5	374.0	359.5	14.46	25.871	
3,000.0	2,969.3	3,002.6	2,990.9	9.5	7.1	-173.90	-14.1	-110.0	384.6	369.9	14.74	26.093	
3,040.0	3,008.1	3,041.3	3,028.9	9.7	7.2	-172.98	-6.8	-111.1	392.4	377.5	14.95	26.256	
3,100.0	3,066.3	3,099.4	3,085.9	9.9	7.4	-171.66	4.2	-112.7	404.4	389.1	15.26	26.505	
3,135.0	3,100.3	3,133.3	3,119.2	10.1	7.6	-170.93	10.6	-113.7	411.4	396.0	15.44	26.650	
3,200.0	3,163.3	3,196.2	3,181.0	10.4	7.8	-169.63	22.4	-115.5	424.7	408.9	15.77	26.922	
3,230.0	3,192.4	3,225.3	3,209.5	10.5	7.9	-169.06	27.9	-116.3	430.9	414.9	15.93	27.048	
3,300.0	3,260.4	3,293.1	3,276.0	10.8	8.2	-167.78	40.7	-118.2	445.5	429.2	16.29	27.340	
3,325.0	3,284.6	3,317.3	3,299.8	10.9	8.3	-167.35	45.3	-118.9	450.8	434.3	16.42	27.444	
3,400.0	3,357.4	3,389.9	3,371.1	11.2	8.6	-166.10	59.0	-120.9	466.7	449.9	16.82	27.754	
3,420.0	3,376.8	3,409.3	3,390.1	11.3	8.6	-165.78	62.6	-121.5	471.0	454.1	16.92	27.836	
3,500.0	3,454.4	3,486.7	3,466.1	11.7	9.0	-164.56	77.3	-123.6	488.3	470.9	17.34	28.161	
3,515.0	3,469.0	3,501.2	3,480.4	11.7	9.0	-164.34	80.0	-124.0	491.5	474.1	17.42	28.220	
3,600.0	3,551.5	3,583.5	3,561.2	12.1	9.3	-163.15	95.5	-126.4	510.1	492.3	17.86	28.557	
3,610.0	3,561.2	3,593.2	3,570.7	12.1	9.4	-163.01	97.4	-126.6	512.3	494.4	17.92	28.596	
3,700.0	3,648.5	3,680.4	3,666.2	12.5	9.8	-161.85	113.8	-129.1	532.3	513.9	18.39	28.943	
3,705.0	3,653.3	3,685.2	3,661.0	12.6	9.8	-161.79	114.7	-129.2	533.4	515.0	18.42	28.961	
3,800.0	3,745.5	3,777.2	3,751.3	13.0	10.2	-160.66	132.1	-131.8	554.7	535.8	18.92	29.315	
3,895.0	3,837.7	3,869.2	3,841.6	13.4	10.5	-159.61	149.5	-134.4	576.2	556.7	19.43	29.657	
3,900.0	3,842.5	3,874.0	3,846.3	13.4	10.6	-159.56	150.4	-134.5	577.3	557.8	19.45	29.675	
3,990.0	3,929.9	3,961.2	3,931.9	13.8	10.9	-158.64	166.8	-137.0	597.8	577.9	19.94	29.986	
4,000.0	3,939.6	3,970.9	3,941.4	13.9	11.0	-158.54	168.6	-137.3	600.1	580.1	19.99	30.020	
4,085.0	4,022.0	4,053.2	4,022.2	14.3	11.3	-157.73	184.2	-139.6	619.6	599.2	20.45	30.303	
4,100.0	4,036.6	4,067.7	4,036.4	14.3	11.4	-157.60	186.9	-140.0	623.1	602.5	20.53	30.352	
4,180.0	4,114.2	4,145.1	4,112.5	14.7	11.7	-156.89	201.5	-142.2	641.5	620.6	20.96	30.608	
4,200.0	4,133.6	4,164.5	4,131.5	14.8	11.8	-156.72	205.2	-142.7	646.2	625.1	21.07	30.671	
4,275.0	4,206.4	4,237.1	4,202.7	15.2	12.1	-156.10	218.9	-144.8	663.6	642.1	21.48	30.900	
4,300.0	4,230.7	4,261.3	4,226.5	15.3	12.2	-155.90	223.5	-145.4	669.4	647.8	21.61	30.975	
4,370.0	4,298.6	4,329.1	4,293.0	15.6	12.5	-155.36	236.3	-147.3	685.8	663.8	21.99	31.181	
4,400.0	4,327.7	4,358.2	4,321.6	15.7	12.7	-155.14	241.7	-148.2	692.8	670.6	22.16	31.267	
4,465.0	4,390.8	4,421.1	4,383.3	16.0	12.9	-154.67	253.6	-149.9	708.1	685.5	22.51	31.450	
4,500.0	4,424.7	4,455.0	4,416.6	16.2	13.1	-154.43	260.0	-150.9	716.3	693.6	22.71	31.546	
4,560.0	4,482.9	4,513.1	4,473.6	16.5	13.3	-154.02	271.0	-152.5	730.4	707.4	23.04	31.707	
4,600.0	4,521.7	4,551.8	4,511.6	16.7	13.5	-153.76	278.3	-153.6	739.9	716.6	23.26	31.813	
4,655.0	4,575.1	4,605.1	4,563.9	16.9	13.7	-153.41	288.3	-155.1	752.9	729.3	23.56	31.954	
4,700.0	4,618.8	4,648.6	4,606.7	17.1	13.9	-153.13	296.6	-156.3	763.5	739.7	23.81	32.068	
4,750.0	4,667.3	4,697.1	4,654.2	17.4	14.1	-152.83	305.7	-157.7	775.4	751.3	24.09	32.191	
4,800.0	4,715.8	4,745.5	4,701.7	17.6	14.4	-152.54	314.8	-159.1	787.3	762.9	24.37	32.312	
4,845.0	4,759.5	4,789.0	4,744.5	17.8	14.6	-152.29	323.1	-160.3	798.0	773.4	24.61	32.431	
4,853.6	4,767.8	4,797.4	4,752.7	17.8	14.6	-152.24	324.7	-160.5	800.1	775.4	24.65	32.454	
4,900.0	4,812.9	4,842.4	4,796.9	18.0	14.8	-152.08	333.1	-161.8	810.8	785.9	24.90	32.565	
4,940.0	4,851.9	4,881.2	4,835.0	18.2	15.0	-151.92	340.5	-162.9	819.5	794.4	25.12	32.621	
5,000.0	4,910.7	4,939.7	4,892.4	18.5	15.2	-151.65	351.5	-164.5	831.8	806.3	25.46	32.672	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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, 7438-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		
5,035.0	4,945.1	4,973.9	4,926.0	18.7	15.4	-151.47	358.0	-165.5	838.5	812.8	25.65	32.690			
5,100.0	5,009.2	5,037.5	4,988.4	19.0	15.7	-151.10	370.0	-167.3	849.9	823.9	26.00	32.689			
5,130.0	5,038.8	5,066.9	5,017.3	19.1	15.8	-150.92	375.5	-168.1	854.8	828.6	26.16	32.681			
5,200.0	5,108.2	5,135.6	5,084.7	19.4	16.1	-150.45	388.5	-170.0	865.2	838.7	26.52	32.627			
5,225.0	5,133.0	5,160.2	5,108.8	19.5	16.2	-150.27	393.1	-170.7	868.5	841.9	26.64	32.603			
5,300.0	5,207.6	5,233.9	5,181.2	19.9	16.5	-149.69	407.0	-172.8	877.6	850.6	27.01	32.496			
5,320.0	5,227.5	5,253.6	5,200.5	19.9	16.6	-149.53	410.8	-173.4	879.8	852.7	27.10	32.467			
5,400.0	5,307.3	5,332.3	5,277.8	20.2	17.0	-148.82	425.6	-175.6	887.3	859.8	27.46	32.310			
5,415.0	5,322.3	5,347.0	5,292.2	20.3	17.1	-148.68	428.4	-176.0	888.5	861.0	27.52	32.283			
5,500.0	5,407.3	5,430.6	5,374.3	20.6	17.4	-147.82	444.2	-178.4	894.3	866.4	27.87	32.089			
5,510.0	5,417.3	5,440.4	5,383.9	20.6	17.5	-147.72	446.0	-178.6	894.8	866.9	27.89	32.081			
5,553.7	5,461.0	5,483.4	5,426.1	20.6	17.7	-85.75	454.1	-179.8	896.9	868.9	28.00	32.034			
5,600.0	5,507.3	5,528.8	5,470.7	20.7	17.9	-85.21	462.7	-181.1	898.9	870.9	28.07	32.025			
5,605.0	5,512.3	5,533.7	5,475.5	20.7	17.9	-85.15	463.6	-181.3	899.2	871.1	28.08	32.023			
5,700.0	5,607.3	5,627.0	5,567.0	20.7	18.3	-84.05	481.2	-183.9	903.6	875.3	28.26	31.974			
5,795.0	5,702.3	5,720.2	5,658.6	20.7	18.7	-82.96	498.8	-186.5	908.4	879.9	28.45	31.923			
5,800.0	5,707.3	5,725.1	5,663.4	20.7	18.8	-82.91	499.8	-186.6	908.6	880.2	28.47	31.921			
5,890.0	5,797.3	5,813.5	5,750.1	20.8	19.2	-81.89	516.4	-189.1	913.5	884.8	28.66	31.871			
5,900.0	5,807.3	5,823.3	5,759.7	20.8	19.2	-81.77	518.3	-189.4	914.0	885.3	28.68	31.866			
5,985.0	5,892.3	5,907.6	5,842.5	20.8	19.6	-80.81	534.2	-191.8	918.9	890.0	28.87	31.824			
6,000.0	5,907.3	5,923.1	5,857.8	20.8	19.7	-80.64	537.0	-192.2	919.8	890.8	28.91	31.810			
6,080.0	5,987.3	6,006.1	5,939.4	20.9	20.0	-79.77	551.6	-194.4	924.3	895.2	29.13	31.727			
6,100.0	6,007.3	6,026.9	5,959.9	20.9	20.1	-79.56	555.1	-194.9	925.4	896.2	29.19	31.705			
6,175.0	6,082.3	6,105.2	6,037.2	20.9	20.5	-78.83	567.5	-196.8	929.4	900.0	29.40	31.615			
6,200.0	6,107.3	6,131.3	6,063.0	20.9	20.6	-78.60	571.5	-197.3	930.7	901.2	29.47	31.583			
6,270.0	6,177.3	6,204.8	6,135.7	20.9	20.9	-77.99	581.8	-198.9	934.2	904.5	29.67	31.488			
6,300.0	6,207.3	6,236.3	6,167.0	21.0	21.0	-77.75	586.0	-199.5	935.6	905.9	29.75	31.446			
6,365.0	6,272.3	6,304.9	6,235.0	21.0	21.3	-77.26	594.5	-200.8	938.5	908.6	29.94	31.349			
6,400.0	6,307.3	6,341.9	6,271.7	21.0	21.5	-77.02	598.7	-201.4	940.0	910.0	30.04	31.296			
6,460.0	6,367.3	6,405.4	6,334.9	21.0	21.7	-76.63	605.5	-202.4	942.4	912.2	30.21	31.199			
6,500.0	6,407.3	6,447.8	6,377.1	21.0	21.9	-76.39	609.6	-203.0	943.9	913.6	30.32	31.134			
6,555.0	6,462.3	6,506.2	6,435.3	21.1	22.1	-76.10	614.8	-203.8	945.8	915.3	30.47	31.040			
6,600.0	6,507.3	6,554.1	6,483.1	21.1	22.3	-75.89	618.5	-204.4	947.1	916.6	30.59	30.962			
6,650.0	6,557.3	6,607.4	6,536.2	21.1	22.5	-75.68	622.3	-204.9	948.5	917.8	30.72	30.873			
6,700.0	6,607.3	6,660.8	6,589.5	21.1	22.7	-75.49	625.6	-205.4	949.7	918.9	30.85	30.784			
6,745.0	6,652.3	6,708.8	6,637.5	21.1	22.8	-75.35	628.1	-205.8	950.7	919.7	30.97	30.701			
6,800.0	6,707.3	6,767.6	6,696.2	21.2	23.0	-75.21	630.7	-206.2	951.6	920.5	31.10	30.601			
6,840.0	6,747.3	6,810.4	6,739.0	21.2	23.2	-75.12	632.1	-206.4	952.2	921.0	31.19	30.527			
6,900.0	6,807.3	6,874.6	6,803.2	21.2	23.4	-75.03	633.8	-206.6	952.8	921.5	31.32	30.417			
6,935.0	6,842.3	6,912.1	6,840.6	21.2	23.5	-75.00	634.4	-206.7	953.0	921.6	31.39	30.357			
7,000.0	6,907.3	6,981.7	6,910.2	21.3	23.6	-74.97	634.9	-206.8	953.2	921.7	31.50	30.262			
7,030.0	6,937.3	7,012.2	6,940.8	21.3	23.6	-74.97	634.9	-206.8	953.2	921.7	31.53	30.229			
7,100.0	7,007.3	7,082.2	7,010.8	21.3	23.6	-74.97	634.9	-206.8	953.2	921.6	31.62	30.147			
7,125.0	7,032.3	7,107.2	7,035.8	21.3	23.6	-74.97	634.9	-206.8	953.2	921.6	31.65	30.117			
7,200.0	7,107.3	7,182.2	7,110.8	21.3	23.7	-74.97	634.9	-206.8	953.2	921.5	31.74	30.030			
7,220.0	7,127.3	7,202.2	7,130.8	21.4	23.7	-74.97	634.9	-206.8	953.2	921.4	31.77	30.007			
7,300.0	7,207.3	7,282.2	7,210.8	21.4	23.7	-74.97	634.9	-206.8	953.2	921.3	31.87	29.914			
7,315.0	7,222.3	7,297.2	7,225.8	21.4	23.7	-74.97	634.9	-206.8	953.2	921.3	31.88	29.896			
7,400.0	7,307.3	7,382.2	7,310.8	21.4	23.7	-74.97	634.9	-206.8	953.2	921.2	31.99	29.798			
7,410.0	7,317.3	7,392.2	7,320.8	21.4	23.7	-74.97	634.9	-206.8	953.2	921.2	32.00	29.786			
7,500.0	7,407.3	7,513.8	7,442.1	21.5	23.8	-75.27	629.8	-206.8	952.5	920.4	32.07	29.700			

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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, 7438-r.5 MWD+IFR1+MS						Rule Assigned:				Offset Well Error:	3.0 usft	
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum		Separation		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Separation (usft)	Factor		
7,505.0	7,412.3	7,522.3	7,450.5	21.5	23.8	-75.33	628.6	-206.9	952.3	920.2	32.07	29.695		
7,600.0	7,507.3	7,671.9	7,594.0	21.5	24.0	-77.75	587.6	-207.2	946.1	914.2	31.97	29.591		
7,695.0	7,602.3	7,794.4	7,700.3	21.6	24.1	-81.39	527.3	-207.7	936.8	905.0	31.83	29.435		
7,700.0	7,607.3	7,800.0	7,704.8	21.6	24.1	-81.59	524.0	-207.8	936.3	904.5	31.82	29.425		
7,790.0	7,697.3	7,888.4	7,771.8	21.6	24.2	-85.11	466.5	-208.3	928.1	896.4	31.72	29.261		
7,800.0	7,707.3	7,896.8	7,777.7	21.6	24.2	-85.49	460.5	-208.3	927.4	895.7	31.71	29.246		
7,885.0	7,792.3	7,959.2	7,818.5	21.7	24.3	-88.40	413.4	-208.7	923.2	891.5	31.63	29.183		
7,900.0	7,807.3	7,968.7	7,824.3	21.7	24.3	-88.87	405.9	-208.8	922.9	891.2	31.62	29.186		
7,921.0	7,828.3	7,981.3	7,831.8	21.7	24.3	-89.50	395.7	-208.9	922.7	891.1	31.60	29.201		
7,980.0	7,887.3	8,012.9	7,849.5	21.7	24.3	-91.13	369.5	-209.1	924.0	892.5	31.53	29.304		
8,000.0	7,907.3	8,022.6	7,854.6	21.7	24.3	-91.64	361.3	-209.2	925.1	893.6	31.51	29.362		
8,075.0	7,982.3	8,050.0	7,868.4	21.8	24.4	-93.11	337.6	-209.4	932.0	900.6	31.38	29.699		
8,100.0	8,007.3	8,063.8	7,874.9	21.8	24.4	-93.86	325.4	-209.5	935.3	904.0	31.35	29.835		
8,170.0	8,077.3	8,087.2	7,885.2	21.8	24.4	-95.16	304.4	-209.7	947.6	916.4	31.22	30.357		
8,200.0	8,107.3	8,100.0	7,890.5	21.8	24.4	-95.87	292.7	-209.8	954.2	923.0	31.17	30.616		
8,265.0	8,172.3	8,113.5	7,895.8	21.8	24.4	-96.63	280.3	-209.9	971.1	940.1	31.02	31.310		
8,300.0	8,207.3	8,121.9	7,898.9	21.9	24.4	-97.11	272.5	-209.9	981.7	950.8	30.94	31.730		
8,360.0	8,267.3	8,135.0	7,903.6	21.9	24.4	-97.85	260.3	-210.1	1,002.3	971.5	30.81	32.529		
8,400.0	8,307.3	8,150.0	7,908.6	21.9	24.4	-98.71	246.2	-210.2	1,017.6	986.8	30.76	33.087		
8,455.0	8,362.3	8,150.0	7,908.6	21.9	24.4	-98.71	246.2	-210.2	1,040.6	1,010.0	30.60	34.002		
8,485.8	8,393.0	8,150.0	7,908.6	21.9	24.4	-98.71	246.2	-210.2	1,054.5	1,023.9	30.52	34.544		
8,500.0	8,407.3	8,150.0	7,908.6	21.9	24.4	80.04	246.2	-210.2	1,061.1	1,030.8	30.30	35.014		
8,550.0	8,457.1	8,169.7	7,914.6	22.0	24.4	76.30	227.4	-210.3	1,084.7	1,054.5	30.24	35.876		
8,600.0	8,506.5	8,180.1	7,917.5	22.0	24.4	73.05	217.4	-210.4	1,109.2	1,079.1	30.14	36.801		
8,645.0	8,550.2	8,200.0	7,922.6	22.0	24.5	69.66	198.2	-210.6	1,131.6	1,101.5	30.10	37.594		
8,650.0	8,555.0	8,200.0	7,922.6	22.0	24.5	69.39	198.2	-210.6	1,134.1	1,104.0	30.09	37.691		
8,700.0	8,602.3	8,200.0	7,922.6	22.0	24.5	66.73	198.2	-210.6	1,158.9	1,129.0	29.99	38.649		
8,740.0	8,639.0	8,214.5	7,925.9	22.0	24.5	64.06	184.0	-210.7	1,178.7	1,148.7	29.97	39.333		
8,750.0	8,648.0	8,217.2	7,926.4	22.1	24.5	63.44	181.4	-210.7	1,183.6	1,153.7	29.96	39.505		
8,800.0	8,691.7	8,231.1	7,929.1	22.1	24.5	60.48	167.8	-210.9	1,207.9	1,177.9	29.95	40.333		
8,835.0	8,721.0	8,250.0	7,932.3	22.1	24.5	58.24	149.2	-211.0	1,224.5	1,194.6	29.97	40.855		
8,850.0	8,733.2	8,250.0	7,932.3	22.1	24.5	57.58	149.2	-211.0	1,231.5	1,201.5	29.97	41.092		
8,900.0	8,772.1	8,250.0	7,932.3	22.1	24.5	55.44	149.2	-211.0	1,254.2	1,224.3	29.98	41.832		
8,930.0	8,794.1	8,269.8	7,935.0	22.2	24.5	53.73	129.5	-211.2	1,267.2	1,237.2	30.04	42.187		
8,950.0	8,808.1	8,276.0	7,935.7	22.2	24.5	52.82	123.3	-211.2	1,275.7	1,245.7	30.07	42.426		
9,000.0	8,841.0	8,300.0	7,937.8	22.2	24.5	50.55	99.5	-211.4	1,296.1	1,265.9	30.17	42.956		
9,025.0	8,856.1	8,300.0	7,937.8	22.2	24.5	49.76	99.5	-211.4	1,305.7	1,275.5	30.22	43.199		
9,050.0	8,870.4	8,300.0	7,937.8	22.2	24.5	48.99	99.5	-211.4	1,315.0	1,284.7	30.29	43.419		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8483-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum	Separation	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
4,500.0	4,424.7	4,751.6	4,669.1	16.2	17.3	28.55	352.5	1,845.3	1,310.0	1,278.9	31.04	42.199
4,560.0	4,482.9	4,800.0	4,716.3	16.5	17.6	28.62	356.4	1,835.5	1,285.5	1,254.0	31.52	40.788
4,600.0	4,521.7	4,827.3	4,743.0	16.7	17.7	28.67	358.6	1,830.1	1,269.5	1,237.7	31.83	39.883
4,655.0	4,575.1	4,869.3	4,784.1	16.9	17.9	28.75	361.7	1,822.1	1,247.7	1,215.4	32.26	38.672
4,700.0	4,618.8	4,900.0	4,814.2	17.1	18.0	28.81	364.0	1,816.4	1,230.2	1,197.5	32.62	37.715
4,750.0	4,667.3	4,942.3	4,855.8	17.4	18.2	28.90	367.0	1,808.8	1,210.9	1,177.9	33.01	36.681
4,800.0	4,715.8	4,981.1	4,893.8	17.6	18.4	28.99	369.7	1,802.1	1,192.0	1,158.5	33.41	35.681
4,845.0	4,759.5	5,016.1	4,928.2	17.8	18.5	29.08	372.0	1,796.2	1,175.2	1,141.4	33.75	34.820
4,853.6	4,767.8	5,022.8	4,934.9	17.8	18.6	29.10	372.4	1,795.1	1,172.0	1,138.1	33.82	34.657
4,900.0	4,812.9	5,059.2	4,970.7	18.0	18.7	29.02	374.7	1,789.3	1,155.2	1,121.1	34.17	33.811
4,940.0	4,851.9	5,090.9	5,001.9	18.2	18.9	28.95	376.7	1,784.4	1,141.5	1,107.0	34.49	33.101
5,000.0	4,910.7	5,138.9	5,049.3	18.5	19.1	28.85	379.5	1,777.2	1,122.2	1,087.2	34.96	32.097
5,035.0	4,945.1	5,167.1	5,077.2	18.7	19.2	28.79	381.1	1,773.2	1,111.6	1,076.4	35.24	31.547
5,100.0	5,009.2	5,220.0	5,129.6	19.0	19.4	28.68	384.0	1,766.0	1,093.3	1,057.5	35.74	30.587
5,130.0	5,038.8	5,244.6	5,153.9	19.1	19.5	28.63	385.2	1,762.8	1,085.4	1,049.5	35.97	30.175
5,200.0	5,108.2	5,300.0	5,208.8	19.4	19.8	28.51	387.9	1,756.0	1,068.6	1,032.1	36.50	29.275
5,225.0	5,133.0	5,323.3	5,231.9	19.5	19.8	28.47	389.0	1,753.3	1,063.1	1,026.4	36.69	28.978
5,300.0	5,207.6	5,386.1	5,294.3	19.9	20.1	28.34	391.8	1,746.3	1,048.2	1,011.0	37.24	28.152
5,320.0	5,227.5	5,400.0	5,308.1	19.9	20.2	28.30	392.3	1,744.9	1,044.7	1,007.3	37.37	27.953
5,400.0	5,307.3	5,470.5	5,378.3	20.2	20.4	28.16	395.1	1,738.0	1,032.2	994.3	37.93	27.215
5,415.0	5,322.3	5,483.3	5,390.9	20.3	20.5	28.13	395.5	1,736.9	1,030.2	992.2	38.02	27.093
5,500.0	5,407.3	5,555.7	5,463.1	20.6	20.8	27.96	397.9	1,730.8	1,020.6	982.0	38.56	26.467
5,510.0	5,417.3	5,564.3	5,471.6	20.6	20.8	27.94	398.2	1,730.2	1,019.7	981.1	38.61	26.412
5,553.7	5,461.0	5,600.0	5,507.2	20.6	20.9	89.35	399.2	1,727.6	1,016.2	977.4	38.80	26.188
5,600.0	5,507.3	5,641.3	5,548.4	20.7	21.1	89.29	400.3	1,724.8	1,013.1	974.1	38.96	26.002
5,605.0	5,512.3	5,645.6	5,552.7	20.7	21.1	89.28	400.4	1,724.5	1,012.8	973.8	38.98	25.982
5,700.0	5,607.3	5,727.2	5,634.1	20.7	21.4	89.17	402.2	1,719.9	1,007.4	968.1	39.31	25.625
5,795.0	5,702.3	5,808.8	5,715.7	20.7	21.7	89.09	403.7	1,716.4	1,003.4	963.7	39.63	25.320
5,800.0	5,707.3	5,813.1	5,720.0	20.7	21.7	89.08	403.7	1,716.2	1,003.2	963.5	39.64	25.306
5,890.0	5,797.3	5,890.6	5,797.4	20.8	21.9	89.03	404.6	1,713.9	1,000.5	960.6	39.91	25.068
5,900.0	5,807.3	5,900.0	5,806.8	20.8	21.9	89.03	404.7	1,713.7	1,000.3	960.3	39.94	25.043
5,985.0	5,892.3	5,972.4	5,879.2	20.8	22.1	89.00	405.2	1,712.5	998.9	958.8	40.16	24.876
6,000.0	5,907.3	5,985.3	5,892.1	20.8	22.2	88.99	405.2	1,712.4	998.8	958.6	40.19	24.850
6,080.0	5,987.3	6,057.3	5,964.1	20.9	22.2	88.99	405.3	1,712.2	998.6	958.3	40.30	24.777
6,100.0	6,007.3	6,077.3	5,984.1	20.9	22.2	88.99	405.3	1,712.2	998.6	958.2	40.31	24.769
6,175.0	6,082.3	6,152.3	6,059.1	20.9	22.3	88.99	405.3	1,712.2	998.6	958.2	40.37	24.732
6,200.0	6,107.3	6,177.3	6,084.1	20.9	22.3	88.99	405.3	1,712.2	998.6	958.2	40.40	24.719
6,270.0	6,177.3	6,247.3	6,154.1	20.9	22.3	88.99	405.3	1,712.2	998.6	958.1	40.46	24.683
6,300.0	6,207.3	6,277.3	6,184.1	21.0	22.3	88.99	405.3	1,712.2	998.6	958.1	40.48	24.667
6,365.0	6,272.3	6,342.3	6,249.1	21.0	22.3	88.99	405.3	1,712.2	998.6	958.0	40.54	24.633
6,400.0	6,307.3	6,377.3	6,284.1	21.0	22.4	88.99	405.3	1,712.2	998.6	958.0	40.57	24.615
6,460.0	6,367.3	6,437.3	6,344.1	21.0	22.4	88.99	405.3	1,712.2	998.6	957.9	40.62	24.584
6,500.0	6,407.3	6,477.3	6,384.1	21.0	22.4	88.99	405.3	1,712.2	998.6	957.9	40.65	24.563
6,555.0	6,462.3	6,532.3	6,439.1	21.1	22.4	88.99	405.3	1,712.2	998.6	957.9	40.70	24.534
6,600.0	6,507.3	6,577.3	6,484.1	21.1	22.4	88.99	405.3	1,712.2	998.6	957.8	40.74	24.511
6,650.0	6,557.3	6,627.3	6,534.1	21.1	22.5	88.99	405.3	1,712.2	998.6	957.8	40.78	24.485
6,700.0	6,607.3	6,677.3	6,584.1	21.1	22.5	88.99	405.3	1,712.2	998.6	957.7	40.83	24.459
6,745.0	6,652.3	6,722.3	6,629.1	21.1	22.5	88.99	405.3	1,712.2	998.6	957.7	40.87	24.435
6,800.0	6,707.3	6,777.3	6,684.1	21.2	22.5	88.99	405.3	1,712.2	998.6	957.6	40.91	24.406
6,840.0	6,747.3	6,817.3	6,724.1	21.2	22.5	88.99	405.3	1,712.2	998.6	957.6	40.95	24.385
6,900.0	6,807.3	6,877.3	6,784.1	21.2	22.5	88.99	405.3	1,712.2	998.6	957.6	41.00	24.354

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8483-r.5 MWD+IFR1+MS						Rule Assigned:				Offset Well Error:	3.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance					
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside			Between	Between	Minimum	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor		
6,935.0	6,842.3	6,912.3	6,819.1	21.2	22.6	88.99	405.3	1,712.2	998.6	957.5	41.03	24.336		
7,000.0	6,907.3	6,977.3	6,884.1	21.3	22.6	88.99	405.3	1,712.2	998.6	957.5	41.09	24.301		
7,030.0	6,937.3	7,007.3	6,914.1	21.3	22.6	88.99	405.3	1,712.2	998.6	957.4	41.12	24.286		
7,100.0	7,007.3	7,077.3	6,984.1	21.3	22.6	88.99	405.3	1,712.2	998.6	957.4	41.18	24.249		
7,125.0	7,032.3	7,102.3	7,009.1	21.3	22.6	88.99	405.3	1,712.2	998.6	957.4	41.20	24.236		
7,200.0	7,107.3	7,177.3	7,084.1	21.3	22.7	88.99	405.3	1,712.2	998.6	957.3	41.27	24.197		
7,220.0	7,127.3	7,197.3	7,104.1	21.4	22.7	88.99	405.3	1,712.2	998.6	957.3	41.29	24.186		
7,300.0	7,207.3	7,277.3	7,184.1	21.4	22.7	88.99	405.3	1,712.2	998.6	957.2	41.36	24.144		
7,315.0	7,222.3	7,292.3	7,199.1	21.4	22.7	88.99	405.3	1,712.2	998.6	957.2	41.37	24.136		
7,400.0	7,307.3	7,377.3	7,284.1	21.4	22.7	88.99	405.3	1,712.2	998.6	957.1	41.45	24.091		
7,410.0	7,317.3	7,387.3	7,294.1	21.4	22.8	88.99	405.3	1,712.2	998.6	957.1	41.46	24.086		
7,500.0	7,407.3	7,477.3	7,384.1	21.5	22.8	88.99	405.3	1,712.2	998.6	957.0	41.54	24.039		
7,505.0	7,412.3	7,482.3	7,389.1	21.5	22.8	88.99	405.3	1,712.2	998.6	957.0	41.54	24.036		
7,600.0	7,507.3	7,577.3	7,484.1	21.5	22.8	88.99	405.3	1,712.2	998.6	956.9	41.63	23.986		
7,695.0	7,602.3	7,672.3	7,579.1	21.6	22.9	88.99	405.3	1,712.2	998.6	956.8	41.72	23.936		
7,700.0	7,607.3	7,677.3	7,584.1	21.6	22.9	88.99	405.3	1,712.2	998.6	956.8	41.72	23.934		
7,790.0	7,697.3	7,767.3	7,674.1	21.6	22.9	88.99	405.3	1,712.2	998.6	956.8	41.80	23.886		
7,800.0	7,707.3	7,777.3	7,684.1	21.6	22.9	88.99	405.3	1,712.2	998.6	956.7	41.81	23.881		
7,885.0	7,792.3	7,862.3	7,769.1	21.7	22.9	88.99	405.3	1,712.2	998.6	956.7	41.89	23.836		
7,900.0	7,807.3	7,877.3	7,784.1	21.7	23.0	88.99	405.3	1,712.2	998.6	956.6	41.91	23.828		
7,980.0	7,887.3	7,957.3	7,864.1	21.7	23.0	88.99	405.3	1,712.2	998.6	956.6	41.98	23.786		
8,000.0	7,907.3	7,977.3	7,884.1	21.7	23.0	88.99	405.3	1,712.2	998.6	956.6	42.00	23.776		
8,075.0	7,982.3	8,052.3	7,959.1	21.8	23.0	88.99	405.3	1,712.2	998.6	956.5	42.07	23.736		
8,100.0	8,007.3	8,077.3	7,984.1	21.8	23.0	88.99	405.3	1,712.2	998.6	956.5	42.09	23.723		
8,170.0	8,077.3	8,147.3	8,054.1	21.8	23.1	88.99	405.3	1,712.2	998.6	956.4	42.16	23.686		
8,200.0	8,107.3	8,177.3	8,084.1	21.8	23.1	88.99	405.3	1,712.2	998.6	956.4	42.19	23.670		
8,265.0	8,172.3	8,242.3	8,149.1	21.8	23.1	88.99	405.3	1,712.2	998.6	956.3	42.25	23.636		
8,300.0	8,207.3	8,277.3	8,184.1	21.9	23.1	88.99	405.3	1,712.2	998.6	956.3	42.28	23.618		
8,360.0	8,267.3	8,337.3	8,244.1	21.9	23.1	88.99	405.3	1,712.2	998.6	956.2	42.34	23.586		
8,400.0	8,307.3	8,377.3	8,284.1	21.9	23.2	88.99	405.3	1,712.2	998.6	956.2	42.37	23.565		
8,455.0	8,362.3	8,432.3	8,339.1	21.9	23.2	88.99	405.3	1,712.2	998.6	956.1	42.42	23.541		
8,485.8	8,393.0	8,463.0	8,369.8	21.9	23.2	88.99	405.3	1,712.2	998.6	956.1	42.44	23.528 CC		
8,500.0	8,407.3	8,477.3	8,384.1	21.9	23.2	-91.53	405.3	1,712.2	998.6	956.1	42.45	23.525		
8,550.0	8,457.1	8,529.4	8,436.2	22.0	23.2	-91.62	403.4	1,712.2	998.6	956.1	42.46	23.519		
8,600.0	8,506.5	8,582.0	8,488.3	22.0	23.2	-91.70	396.8	1,712.1	998.7	956.2	42.47	23.516		
8,645.0	8,550.2	8,629.4	8,534.7	22.0	23.2	-91.77	386.8	1,712.0	998.7	956.2	42.47	23.515		
8,650.0	8,555.0	8,634.7	8,539.8	22.0	23.2	-91.77	385.4	1,712.0	998.7	956.2	42.47	23.515		
8,700.0	8,602.3	8,687.6	8,590.1	22.0	23.3	-91.83	369.3	1,711.9	998.7	956.3	42.47	23.516		
8,740.0	8,639.0	8,729.9	8,629.1	22.0	23.3	-91.86	353.0	1,711.8	998.8	956.3	42.47	23.518		
8,750.0	8,648.0	8,740.5	8,638.7	22.1	23.3	-91.87	348.5	1,711.7	998.8	956.3	42.47	23.519		
8,800.0	8,691.7	8,793.5	8,685.3	22.1	23.3	-91.90	323.3	1,711.5	998.8	956.3	42.46	23.521		
8,835.0	8,721.0	8,830.6	8,716.5	22.1	23.3	-91.91	303.2	1,711.4	998.8	956.4	42.46	23.523		
8,850.0	8,733.2	8,846.5	8,729.4	22.1	23.3	-91.91	294.0	1,711.3	998.8	956.4	42.46	23.523		
8,900.0	8,772.1	8,899.5	8,770.7	22.1	23.3	-91.90	260.6	1,711.0	998.8	956.4	42.46	23.523		
8,930.0	8,794.1	8,931.3	8,793.8	22.2	23.4	-91.89	238.8	1,710.8	998.8	956.4	42.46	23.522		
8,950.0	8,808.1	8,952.5	8,808.6	22.2	23.4	-91.88	223.6	1,710.7	998.9	956.4	42.47	23.521		
9,000.0	8,841.0	9,005.5	8,842.9	22.2	23.4	-91.85	183.3	1,710.4	998.9	956.4	42.48	23.514		
9,025.0	8,856.1	9,032.0	8,858.7	22.2	23.4	-91.83	162.0	1,710.2	998.9	956.4	42.49	23.509		
9,050.0	8,870.4	9,058.4	8,873.4	22.2	23.4	-91.80	140.1	1,710.0	998.9	956.4	42.50	23.503		
9,100.0	8,896.2	9,111.2	8,899.6	22.3	23.5	-91.73	94.3	1,709.6	998.8	956.3	42.53	23.485		
9,120.0	8,905.5	9,132.3	8,908.9	22.3	23.5	-91.70	75.3	1,709.5	998.8	956.3	42.55	23.476		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1													Offset Site Error: 0.0 usft	
Survey Program: Reference		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8483-r.5 MWD+IFR1+MS						Rule Assigned:					Offset Well Error: 3.0 usft	
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	
9,150.0	8,918.2	9,163.9	8,921.5	22.3	23.5	-91.66	46.4	1,709.2	998.8	956.3	42.57	23.461		
9,200.0	8,936.1	9,216.4	8,938.9	22.4	23.6	-91.56	-3.2	1,708.8	998.8	956.2	42.63	23.429		
9,215.0	8,940.7	9,232.2	8,943.2	22.4	23.6	-91.53	-18.3	1,708.7	998.8	956.2	42.65	23.418		
9,250.0	8,950.0	9,268.8	8,951.6	22.4	23.6	-91.46	-54.0	1,708.4	998.8	956.1	42.70	23.390		
9,300.0	8,959.6	9,321.0	8,959.6	22.5	23.7	-91.34	-105.5	1,708.0	998.8	956.0	42.79	23.344		
9,310.0	8,961.0	9,331.4	8,960.7	22.5	23.7	-91.32	-115.9	1,707.9	998.8	956.0	42.80	23.333		
9,350.0	8,964.9	9,373.0	8,962.9	22.5	23.7	-91.22	-157.3	1,707.5	998.8	955.9	42.88	23.290		
9,369.0	8,965.8	9,392.3	8,963.0	22.6	23.8	-91.17	-176.7	1,707.4	998.8	955.8	42.92	23.268		
9,385.2	8,966.0	9,408.5	8,963.0	22.6	23.8	-91.16	-192.9	1,707.3	998.8	955.8	42.96	23.248		
9,400.0	8,966.0	9,423.3	8,963.0	22.6	23.8	-91.16	-207.7	1,707.1	998.8	955.8	43.00	23.229		
9,405.0	8,966.0	9,428.3	8,963.0	22.6	23.8	-91.16	-212.7	1,707.1	998.8	955.8	43.01	23.221		
9,500.0	8,966.1	9,523.3	8,963.1	22.7	24.0	-91.16	-307.7	1,706.3	998.8	955.5	43.28	23.078		
9,595.0	8,966.2	9,618.3	8,963.2	22.9	24.1	-91.16	-402.7	1,705.5	998.9	955.3	43.60	22.911		
9,600.0	8,966.2	9,623.3	8,963.2	22.9	24.1	-91.16	-407.7	1,705.5	998.9	955.3	43.62	22.902		
9,690.0	8,966.3	9,713.3	8,963.2	23.0	24.3	-91.15	-497.7	1,704.7	998.9	955.0	43.96	22.723		
9,700.0	8,966.3	9,723.3	8,963.2	23.0	24.3	-91.15	-507.7	1,704.7	998.9	954.9	44.00	22.702		
9,785.0	8,966.4	9,808.3	8,963.3	23.2	24.5	-91.15	-592.7	1,703.9	999.0	954.6	44.37	22.515		
9,800.0	8,966.4	9,823.3	8,963.3	23.2	24.5	-91.15	-607.7	1,703.8	999.0	954.6	44.44	22.481		
9,880.0	8,966.5	9,903.3	8,963.3	23.4	24.7	-91.15	-687.7	1,703.2	999.0	954.2	44.82	22.290		
9,900.0	8,966.5	9,923.3	8,963.4	23.4	24.8	-91.15	-707.7	1,703.0	999.1	954.1	44.92	22.240		
9,975.0	8,966.6	9,998.3	8,963.4	23.6	25.0	-91.15	-782.7	1,702.4	999.1	953.8	45.31	22.048		
10,000.0	8,966.6	10,023.3	8,963.4	23.7	25.0	-91.15	-807.7	1,702.2	999.1	953.7	45.45	21.982		
10,070.0	8,966.7	10,093.3	8,963.5	23.8	25.2	-91.15	-877.7	1,701.6	999.2	953.3	45.85	21.792		
10,100.0	8,966.7	10,123.3	8,963.5	23.9	25.3	-91.15	-907.7	1,701.3	999.2	953.2	46.03	21.709		
10,165.0	8,966.8	10,188.3	8,963.5	24.1	25.5	-91.14	-972.7	1,700.8	999.2	952.8	46.42	21.524		
10,200.0	8,966.8	10,223.3	8,963.6	24.2	25.6	-91.14	-1,007.7	1,700.5	999.2	952.6	46.64	21.423		
10,260.0	8,966.9	10,283.3	8,963.6	24.3	25.7	-91.14	-1,067.7	1,700.0	999.3	952.2	47.04	21.245		
10,300.0	8,966.9	10,323.3	8,963.6	24.4	25.9	-91.14	-1,107.7	1,699.7	999.3	952.0	47.30	21.126		
10,355.0	8,967.0	10,378.3	8,963.7	24.6	26.0	-91.14	-1,162.7	1,699.2	999.3	951.6	47.68	20.957		
10,400.0	8,967.0	10,423.3	8,963.7	24.7	26.2	-91.14	-1,207.7	1,698.9	999.3	951.3	48.00	20.820		
10,450.0	8,967.1	10,473.3	8,963.7	24.9	26.3	-91.14	-1,257.7	1,698.4	999.4	951.0	48.37	20.663		
10,500.0	8,967.1	10,523.3	8,963.8	25.1	26.5	-91.14	-1,307.7	1,698.0	999.4	950.7	48.74	20.506		
10,545.0	8,967.2	10,568.3	8,963.8	25.2	26.7	-91.14	-1,352.7	1,697.7	999.4	950.4	49.08	20.362		
10,600.0	8,967.2	10,623.3	8,963.8	25.4	26.9	-91.14	-1,407.7	1,697.2	999.5	950.0	49.51	20.187		
10,640.0	8,967.3	10,663.3	8,963.9	25.5	27.0	-91.13	-1,447.6	1,696.9	999.5	949.7	49.83	20.057		
10,700.0	8,967.3	10,723.3	8,963.9	25.7	27.2	-91.13	-1,507.6	1,696.4	999.5	949.2	50.32	19.864		
10,735.0	8,967.4	10,758.3	8,963.9	25.9	27.4	-91.13	-1,542.6	1,696.1	999.5	948.9	50.61	19.750		
10,800.0	8,967.4	10,823.3	8,964.0	26.1	27.6	-91.13	-1,607.6	1,695.6	999.6	948.4	51.16	19.539		
10,830.0	8,967.5	10,853.3	8,964.0	26.2	27.7	-91.13	-1,637.6	1,695.3	999.6	948.2	51.42	19.441		
10,900.0	8,967.5	10,923.3	8,964.0	26.5	28.0	-91.13	-1,707.6	1,694.7	999.6	947.6	52.03	19.213		
10,925.0	8,967.6	10,948.3	8,964.0	26.6	28.1	-91.13	-1,732.6	1,694.5	999.7	947.4	52.25	19.131		
11,000.0	8,967.6	11,023.3	8,964.1	26.9	28.4	-91.13	-1,807.6	1,693.9	999.7	946.8	52.93	18.887		
11,020.0	8,967.6	11,043.3	8,964.1	27.0	28.5	-91.13	-1,827.6	1,693.7	999.7	946.6	53.12	18.821		
11,100.0	8,967.7	11,123.3	8,964.2	27.3	28.8	-91.13	-1,907.6	1,693.1	999.8	945.9	53.86	18.562		
11,115.0	8,967.7	11,138.3	8,964.2	27.4	28.9	-91.13	-1,922.6	1,693.0	999.8	945.8	54.00	18.513		
11,200.0	8,967.8	11,223.3	8,964.2	27.7	29.3	-91.12	-2,007.6	1,692.2	999.8	945.0	54.82	18.239		
11,210.0	8,967.8	11,233.3	8,964.2	27.8	29.3	-91.12	-2,017.6	1,692.2	999.8	944.9	54.92	18.207		
11,300.0	8,967.9	11,323.3	8,964.3	28.2	29.7	-91.12	-2,107.6	1,691.4	999.9	944.1	55.80	17.919		
11,305.0	8,967.9	11,328.3	8,964.3	28.2	29.8	-91.12	-2,112.6	1,691.4	999.9	944.0	55.85	17.903		
11,400.0	8,968.0	11,423.3	8,964.4	28.6	30.2	-91.12	-2,207.6	1,690.6	999.9	943.1	56.81	17.603		
11,495.0	8,968.1	11,518.3	8,964.4	29.1	30.6	-91.12	-2,302.6	1,689.8	1,000.0	942.2	57.78	17.306		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8483-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
11,500.0	8,968.1	11,523.3	8,964.4	29.1	30.7	-91.12	-2,307.6	1,689.8	1,000.0	942.2	57.83	17.290	
11,590.0	8,968.2	11,613.3	8,964.5	29.6	31.1	-91.12	-2,397.6	1,689.0	1,000.0	941.3	58.78	17.013	
11,600.0	8,968.2	11,623.3	8,964.5	29.6	31.2	-91.12	-2,407.6	1,688.9	1,000.0	941.2	58.89	16.983	
11,685.0	8,968.3	11,708.3	8,964.6	30.0	31.6	-91.11	-2,492.6	1,688.2	1,000.1	940.3	59.80	16.725	
11,700.0	8,968.3	11,723.3	8,964.6	30.1	31.7	-91.11	-2,507.6	1,688.1	1,000.1	940.1	59.96	16.680	
11,780.0	8,968.4	11,803.3	8,964.6	30.5	32.1	-91.11	-2,587.6	1,687.5	1,000.2	939.3	60.83	16.442	
11,800.0	8,968.4	11,823.3	8,964.6	30.6	32.2	-91.11	-2,607.6	1,687.3	1,000.2	939.1	61.05	16.383	
11,875.0	8,968.5	11,898.3	8,964.7	31.0	32.6	-91.11	-2,682.6	1,686.7	1,000.2	938.3	61.88	16.164	
11,900.0	8,968.5	11,923.3	8,964.7	31.1	32.7	-91.11	-2,707.6	1,686.5	1,000.2	938.1	62.16	16.092	
11,970.0	8,968.6	11,993.3	8,964.7	31.5	33.1	-91.11	-2,777.6	1,685.9	1,000.3	937.3	62.94	15.891	
12,000.0	8,968.6	12,023.3	8,964.8	31.7	33.2	-91.11	-2,807.6	1,685.6	1,000.3	937.0	63.28	15.806	
12,065.0	8,968.7	12,088.3	8,964.8	32.0	33.6	-91.11	-2,872.6	1,685.1	1,000.3	936.3	64.03	15.624	
12,100.0	8,968.7	12,123.3	8,964.8	32.2	33.8	-91.11	-2,907.6	1,684.8	1,000.3	935.9	64.43	15.527	
12,160.0	8,968.8	12,183.3	8,964.9	32.5	34.1	-91.10	-2,967.6	1,684.3	1,000.4	935.3	65.12	15.362	
12,200.0	8,968.8	12,223.3	8,964.9	32.8	34.3	-91.10	-3,007.6	1,684.0	1,000.4	934.8	65.59	15.253	
12,255.0	8,968.9	12,278.3	8,964.9	33.1	34.6	-91.10	-3,062.6	1,683.5	1,000.4	934.2	66.23	15.105	
12,300.0	8,968.9	12,323.3	8,965.0	33.3	34.9	-91.10	-3,107.6	1,683.2	1,000.5	933.7	66.76	14.986	
12,350.0	8,969.0	12,373.3	8,965.0	33.6	35.1	-91.10	-3,157.6	1,682.7	1,000.5	933.1	67.35	14.854	
12,400.0	8,969.0	12,423.3	8,965.0	33.9	35.4	-91.10	-3,207.6	1,682.3	1,000.5	932.6	67.95	14.725	
12,445.0	8,969.1	12,468.3	8,965.1	34.2	35.7	-91.10	-3,252.6	1,682.0	1,000.5	932.0	68.49	14.609	
12,500.0	8,969.1	12,523.3	8,965.1	34.5	36.0	-91.10	-3,307.6	1,681.5	1,000.6	931.4	69.15	14.470	
12,540.0	8,969.2	12,563.3	8,965.1	34.7	36.2	-91.10	-3,347.6	1,681.2	1,000.6	931.0	69.63	14.369	
12,600.0	8,969.2	12,623.3	8,965.2	35.1	36.6	-91.10	-3,407.6	1,680.7	1,000.6	930.3	70.36	14.221	
12,635.0	8,969.3	12,658.3	8,965.2	35.3	36.8	-91.09	-3,442.6	1,680.4	1,000.6	929.9	70.79	14.135	
12,700.0	8,969.3	12,723.3	8,965.2	35.6	37.2	-91.09	-3,507.6	1,679.8	1,000.7	929.1	71.59	13.978	
12,730.0	8,969.4	12,753.3	8,965.3	35.8	37.3	-91.09	-3,537.6	1,679.6	1,000.7	928.7	71.96	13.907	
12,800.0	8,969.4	12,823.3	8,965.3	36.3	37.8	-91.09	-3,607.6	1,679.0	1,000.7	927.9	72.83	13.742	
12,825.0	8,969.5	12,848.3	8,965.3	36.4	37.9	-91.09	-3,632.6	1,678.8	1,000.8	927.6	73.14	13.683	
12,900.0	8,969.5	12,923.3	8,965.4	36.9	38.3	-91.09	-3,707.6	1,678.2	1,000.8	926.7	74.07	13.511	
12,920.0	8,969.6	12,943.3	8,965.4	37.0	38.5	-91.09	-3,727.6	1,678.0	1,000.8	926.5	74.32	13.465	
13,000.0	8,969.6	13,023.3	8,965.4	37.5	39.0	-91.09	-3,807.6	1,677.4	1,000.9	925.5	75.33	13.286	
13,015.0	8,969.7	13,038.3	8,965.4	37.6	39.0	-91.09	-3,822.6	1,677.2	1,000.9	925.3	75.52	13.253	
13,100.0	8,969.7	13,123.3	8,965.5	38.1	39.6	-91.09	-3,907.6	1,676.5	1,000.9	924.3	76.60	13.067	
13,110.0	8,969.8	13,133.3	8,965.5	38.2	39.6	-91.09	-3,917.6	1,676.5	1,000.9	924.2	76.73	13.045	
13,200.0	8,969.8	13,223.3	8,965.6	38.7	40.2	-91.08	-4,007.6	1,675.7	1,001.0	923.1	77.88	12.853	
13,205.0	8,969.8	13,228.3	8,965.6	38.7	40.2	-91.08	-4,012.6	1,675.7	1,001.0	923.0	77.94	12.843	
13,300.0	8,969.9	13,323.3	8,965.6	39.3	40.8	-91.08	-4,107.6	1,674.9	1,001.0	921.9	79.16	12.645	
13,395.0	8,970.0	13,418.3	8,965.7	40.0	41.4	-91.08	-4,202.6	1,674.1	1,001.1	920.7	80.39	12.452	
13,400.0	8,970.0	13,423.3	8,965.7	40.0	41.4	-91.08	-4,207.6	1,674.1	1,001.1	920.6	80.46	12.442	
13,490.0	8,970.1	13,513.3	8,965.8	40.6	42.0	-91.08	-4,297.6	1,673.3	1,001.1	919.5	81.63	12.264	
13,500.0	8,970.1	13,523.3	8,965.8	40.6	42.1	-91.08	-4,307.6	1,673.2	1,001.1	919.4	81.76	12.245	
13,585.0	8,970.2	13,608.3	8,965.8	41.2	42.6	-91.08	-4,392.5	1,672.5	1,001.2	918.3	82.88	12.081	
13,600.0	8,970.2	13,623.3	8,965.8	41.3	42.7	-91.08	-4,407.5	1,672.4	1,001.2	918.1	83.07	12.052	
13,680.0	8,970.3	13,703.3	8,965.9	41.8	43.2	-91.07	-4,487.5	1,671.7	1,001.3	917.1	84.13	11.902	
13,700.0	8,970.3	13,723.3	8,965.9	41.9	43.3	-91.07	-4,507.5	1,671.6	1,001.3	916.9	84.39	11.865	
13,775.0	8,970.4	13,798.3	8,966.0	42.4	43.8	-91.07	-4,582.5	1,671.0	1,001.3	915.9	85.38	11.727	
13,800.0	8,970.4	13,823.3	8,966.0	42.6	44.0	-91.07	-4,607.5	1,670.7	1,001.3	915.6	85.72	11.682	
13,870.0	8,970.5	13,893.3	8,966.0	43.0	44.4	-91.07	-4,677.5	1,670.2	1,001.4	914.7	86.65	11.557	
13,900.0	8,970.5	13,923.3	8,966.0	43.2	44.6	-91.07	-4,707.5	1,669.9	1,001.4	914.3	87.05	11.504	
13,965.0	8,970.6	13,988.3	8,966.1	43.7	45.1	-91.07	-4,772.5	1,669.4	1,001.4	913.5	87.92	11.391	
14,000.0	8,970.6	14,023.3	8,966.1	43.9	45.3	-91.07	-4,807.5	1,669.1	1,001.4	913.1	88.38	11.330	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8483-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Offset	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Distance	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	(°)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)	(usft)		
14,060.0	8,970.7	14,083.3	8,966.1	44.3	45.7	-91.07	-4,867.5	1,668.6	1,001.5	912.3	89.19	11.228	
14,100.0	8,970.7	14,123.3	8,966.2	44.6	45.9	-91.07	-4,907.5	1,668.3	1,001.5	911.8	89.73	11.161	
14,155.0	8,970.8	14,178.3	8,966.2	44.9	46.3	-91.06	-4,962.5	1,667.8	1,001.5	911.1	90.47	11.070	
14,200.0	8,970.8	14,223.3	8,966.2	45.2	46.6	-91.06	-5,007.5	1,667.4	1,001.6	910.5	91.08	10.997	
14,250.0	8,970.9	14,273.3	8,966.3	45.6	46.9	-91.06	-5,057.5	1,667.0	1,001.6	909.8	91.76	10.916	
14,300.0	8,971.0	14,323.3	8,966.3	45.9	47.3	-91.06	-5,107.5	1,666.6	1,001.6	909.2	92.43	10.836	
14,345.0	8,971.0	14,368.3	8,966.3	46.2	47.6	-91.06	-5,152.5	1,666.2	1,001.6	908.6	93.05	10.765	
14,400.0	8,971.1	14,423.3	8,966.4	46.6	47.9	-91.06	-5,207.5	1,665.8	1,001.7	907.9	93.79	10.679	
14,440.0	8,971.1	14,463.3	8,966.4	46.8	48.2	-91.06	-5,247.5	1,665.5	1,001.7	907.4	94.34	10.618	
14,500.0	8,971.2	14,523.3	8,966.4	47.2	48.6	-91.06	-5,307.5	1,665.0	1,001.7	906.6	95.16	10.527	
14,535.0	8,971.2	14,558.3	8,966.5	47.5	48.8	-91.06	-5,342.5	1,664.7	1,001.7	906.1	95.64	10.474	
14,600.0	8,971.3	14,623.3	8,966.5	47.9	49.3	-91.06	-5,407.5	1,664.1	1,001.8	905.3	96.53	10.378	
14,630.0	8,971.3	14,653.3	8,966.5	48.1	49.5	-91.05	-5,437.5	1,663.9	1,001.8	904.9	96.94	10.334	
14,700.0	8,971.4	14,723.3	8,966.6	48.6	49.9	-91.05	-5,507.5	1,663.3	1,001.8	903.9	97.91	10.233	
14,725.0	8,971.4	14,748.3	8,966.6	48.8	50.1	-91.05	-5,532.5	1,663.1	1,001.9	903.6	98.25	10.197	
14,800.0	8,971.5	14,823.3	8,966.6	49.3	50.6	-91.05	-5,607.5	1,662.5	1,001.9	902.6	99.29	10.091	
14,820.0	8,971.5	14,843.3	8,966.7	49.4	50.8	-91.05	-5,627.5	1,662.3	1,001.9	902.4	99.56	10.063	
14,900.0	8,971.6	14,923.3	8,966.7	50.0	51.3	-91.05	-5,707.5	1,661.7	1,002.0	901.3	100.67	9.953	
14,915.0	8,971.6	14,938.3	8,966.7	50.1	51.4	-91.05	-5,722.5	1,661.5	1,002.0	901.1	100.88	9.933	
15,000.0	8,971.7	15,023.3	8,966.8	50.7	52.0	-91.05	-5,807.5	1,660.8	1,002.0	900.0	102.06	9.818	
15,010.0	8,971.7	15,033.3	8,966.8	50.7	52.0	-91.05	-5,817.5	1,660.7	1,002.0	899.8	102.20	9.805	
15,100.0	8,971.8	15,123.3	8,966.8	51.4	52.7	-91.05	-5,907.5	1,660.0	1,002.1	898.6	103.45	9.687	
15,105.0	8,971.8	15,128.3	8,966.8	51.4	52.7	-91.05	-5,912.5	1,660.0	1,002.1	898.6	103.52	9.680	
15,200.0	8,971.9	15,223.3	8,966.9	52.1	53.3	-91.04	-6,007.5	1,659.2	1,002.1	897.3	104.85	9.558	
15,295.0	8,972.0	15,318.3	8,967.0	52.7	54.0	-91.04	-6,102.5	1,658.4	1,002.2	896.0	106.17	9.439	
15,300.0	8,972.0	15,323.3	8,967.0	52.8	54.0	-91.04	-6,107.5	1,658.3	1,002.2	895.9	106.24	9.433	
15,390.0	8,972.0	15,413.3	8,967.0	53.4	54.7	-91.04	-6,197.5	1,657.6	1,002.2	894.7	107.51	9.323	
15,400.0	8,972.1	15,423.3	8,967.0	53.5	54.7	-91.04	-6,207.5	1,657.5	1,002.3	894.6	107.65	9.310	
15,485.0	8,972.1	15,508.3	8,967.1	54.1	55.3	-91.04	-6,292.5	1,656.8	1,002.3	893.5	108.84	9.209	
15,500.0	8,972.2	15,523.3	8,967.1	54.2	55.4	-91.04	-6,307.5	1,656.7	1,002.3	893.3	109.05	9.191	
15,580.0	8,972.2	15,603.3	8,967.2	54.7	56.0	-91.04	-6,387.5	1,656.0	1,002.4	892.2	110.18	9.097	
15,600.0	8,972.3	15,623.3	8,967.2	54.9	56.1	-91.04	-6,407.5	1,655.9	1,002.4	891.9	110.46	9.074	
15,675.0	8,972.3	15,698.3	8,967.2	55.4	56.6	-91.03	-6,482.5	1,655.2	1,002.4	890.9	111.52	8.988	
15,700.0	8,972.4	15,723.3	8,967.2	55.6	56.8	-91.03	-6,507.5	1,655.0	1,002.4	890.6	111.88	8.960	
15,770.0	8,972.4	15,793.3	8,967.3	56.1	57.3	-91.03	-6,577.5	1,654.5	1,002.5	889.6	112.87	8.882	
15,800.0	8,972.5	15,823.3	8,967.3	56.3	57.5	-91.03	-6,607.5	1,654.2	1,002.5	889.2	113.29	8.849	
15,865.0	8,972.5	15,888.3	8,967.4	56.7	58.0	-91.03	-6,672.5	1,653.7	1,002.5	888.3	114.21	8.778	
15,900.0	8,972.6	15,923.3	8,967.4	57.0	58.2	-91.03	-6,707.5	1,653.4	1,002.5	887.8	114.71	8.740	
15,960.0	8,972.6	15,983.3	8,967.4	57.4	58.6	-91.03	-6,767.5	1,652.9	1,002.6	887.0	115.56	8.676	
16,000.0	8,972.7	16,023.3	8,967.4	57.7	58.9	-91.03	-6,807.5	1,652.6	1,002.6	886.5	116.13	8.633	
16,055.0	8,972.7	16,078.3	8,967.5	58.1	59.3	-91.03	-6,862.5	1,652.1	1,002.6	885.7	116.91	8.576	
16,100.0	8,972.8	16,123.3	8,967.5	58.4	59.6	-91.03	-6,907.5	1,651.7	1,002.7	885.1	117.56	8.529	
16,150.0	8,972.8	16,173.3	8,967.5	58.8	60.0	-91.02	-6,957.5	1,651.3	1,002.7	884.4	118.27	8.478	
16,200.0	8,972.9	16,223.3	8,967.6	59.1	60.3	-91.02	-7,007.5	1,650.9	1,002.7	883.7	118.98	8.427	
16,245.0	8,972.9	16,268.3	8,967.6	59.4	60.6	-91.02	-7,052.5	1,650.5	1,002.7	883.1	119.63	8.382	
16,300.0	8,973.0	16,323.3	8,967.6	59.8	61.0	-91.02	-7,107.5	1,650.1	1,002.8	882.4	120.41	8.328	
16,340.0	8,973.0	16,363.3	8,967.7	60.1	61.3	-91.02	-7,147.5	1,649.7	1,002.8	881.8	120.98	8.289	
16,400.0	8,973.1	16,423.3	8,967.7	60.5	61.7	-91.02	-7,207.4	1,649.3	1,002.8	881.0	121.84	8.231	
16,435.0	8,973.1	16,458.3	8,967.7	60.8	62.0	-91.02	-7,242.4	1,649.0	1,002.9	880.5	122.34	8.197	
16,500.0	8,973.2	16,523.3	8,967.8	61.3	62.4	-91.02	-7,307.4	1,648.4	1,002.9	879.6	123.28	8.135	
16,530.0	8,973.2	16,553.3	8,967.8	61.5	62.7	-91.02	-7,337.4	1,648.2	1,002.9	879.2	123.71	8.107	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1													Offset Site Error: 0.0 usft		
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8483-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft		
Reference Offset				Semi Major Axis		Offset Wellbore Centre				Rule Assigned: Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
16,600.0	8,973.3	16,623.3	8,967.8	62.0	63.2	-91.02	-7,407.4	1,647.6	1,002.9	878.2	124.71	8.042			
16,625.0	8,973.3	16,648.3	8,967.9	62.1	63.3	-91.02	-7,432.4	1,647.4	1,003.0	877.9	125.07	8.019			
16,700.0	8,973.4	16,723.3	8,967.9	62.7	63.9	-91.01	-7,507.4	1,646.8	1,003.0	876.9	126.15	7.951			
16,720.0	8,973.4	16,743.3	8,967.9	62.8	64.0	-91.01	-7,527.4	1,646.6	1,003.0	876.6	126.44	7.933			
16,800.0	8,973.5	16,823.3	8,968.0	63.4	64.6	-91.01	-7,607.4	1,645.9	1,003.1	875.5	127.59	7.862			
16,815.0	8,973.5	16,838.3	8,968.0	63.5	64.7	-91.01	-7,622.4	1,645.8	1,003.1	875.3	127.81	7.848			
16,900.0	8,973.6	16,923.3	8,968.0	64.1	65.3	-91.01	-7,707.4	1,645.1	1,003.1	874.1	129.03	7.774			
16,910.0	8,973.6	16,933.3	8,968.1	64.2	65.4	-91.01	-7,717.4	1,645.0	1,003.1	874.0	129.18	7.765			
17,000.0	8,973.7	17,023.3	8,968.1	64.8	66.0	-91.01	-7,807.4	1,644.3	1,003.2	872.7	130.48	7.689			
17,005.0	8,973.7	17,028.3	8,968.1	64.9	66.0	-91.01	-7,812.4	1,644.2	1,003.2	872.6	130.55	7.684			
17,100.0	8,973.8	17,123.3	8,968.2	65.6	66.7	-91.01	-7,907.4	1,643.5	1,003.2	871.3	131.92	7.605			
17,195.0	8,973.9	17,218.3	8,968.2	66.3	67.4	-91.00	-8,002.4	1,642.7	1,003.3	870.0	133.30	7.527			
17,200.0	8,973.9	17,223.3	8,968.2	66.3	67.4	-91.00	-8,007.4	1,642.6	1,003.3	869.9	133.37	7.523			
17,290.0	8,974.0	17,313.3	8,968.3	66.9	68.1	-91.00	-8,097.4	1,641.9	1,003.4	868.7	134.68	7.450			
17,300.0	8,974.0	17,323.3	8,968.3	67.0	68.2	-91.00	-8,107.4	1,641.8	1,003.4	868.5	134.82	7.442			
17,385.0	8,974.1	17,408.3	8,968.4	67.6	68.8	-91.00	-8,192.4	1,641.1	1,003.4	867.4	136.06	7.375			
17,400.0	8,974.1	17,423.3	8,968.4	67.7	68.9	-91.00	-8,207.4	1,641.0	1,003.4	867.1	136.27	7.363			
17,480.0	8,974.2	17,503.3	8,968.4	68.3	69.5	-91.00	-8,287.4	1,640.3	1,003.5	866.0	137.44	7.301			
17,500.0	8,974.2	17,523.3	8,968.4	68.5	69.6	-91.00	-8,307.4	1,640.2	1,003.5	865.7	137.73	7.286			
17,575.0	8,974.2	17,598.3	8,968.5	69.0	70.1	-91.00	-8,382.4	1,639.5	1,003.5	864.7	138.82	7.229			
17,600.0	8,974.3	17,623.3	8,968.5	69.2	70.3	-91.00	-8,407.4	1,639.3	1,003.5	864.3	139.18	7.210			
17,670.0	8,974.3	17,693.3	8,968.6	69.7	70.8	-90.99	-8,477.4	1,638.7	1,003.6	863.4	140.20	7.158			
17,700.0	8,974.4	17,723.3	8,968.6	69.9	71.0	-90.99	-8,507.4	1,638.5	1,003.6	863.0	140.64	7.136			
17,765.0	8,974.4	17,788.3	8,968.6	70.4	71.5	-90.99	-8,572.4	1,638.0	1,003.6	862.0	141.58	7.089			
17,800.0	8,974.5	17,823.3	8,968.6	70.7	71.8	-90.99	-8,607.4	1,637.7	1,003.6	861.6	142.10	7.063			
17,860.0	8,974.5	17,883.3	8,968.7	71.1	72.2	-90.99	-8,667.4	1,637.2	1,003.7	860.7	142.97	7.020			
17,900.0	8,974.6	17,923.3	8,968.7	71.4	72.5	-90.99	-8,707.4	1,636.8	1,003.7	860.2	143.55	6.992			
17,955.0	8,974.6	17,978.3	8,968.8	71.8	72.9	-90.99	-8,762.4	1,636.4	1,003.7	859.4	144.36	6.953			
18,000.0	8,974.7	18,023.3	8,968.8	72.1	73.2	-90.99	-8,807.4	1,636.0	1,003.8	858.7	145.02	6.922			
18,050.0	8,974.7	18,073.3	8,968.8	72.5	73.6	-90.99	-8,857.4	1,635.6	1,003.8	858.0	145.75	6.887			
18,100.0	8,974.8	18,123.3	8,968.8	72.8	73.9	-90.99	-8,907.4	1,635.2	1,003.8	857.3	146.48	6.853			
18,145.0	8,974.8	18,168.3	8,968.9	73.2	74.3	-90.99	-8,952.4	1,634.8	1,003.8	856.7	147.14	6.823			
18,200.0	8,974.9	18,223.3	8,968.9	73.6	74.7	-90.98	-9,007.4	1,634.4	1,003.9	855.9	147.94	6.786			
18,240.0	8,974.9	18,263.3	8,968.9	73.9	75.0	-90.98	-9,047.4	1,634.0	1,003.9	855.4	148.53	6.759			
18,300.0	8,975.0	18,323.3	8,969.0	74.3	75.4	-90.98	-9,107.4	1,633.5	1,003.9	854.5	149.41	6.720			
18,335.0	8,975.0	18,358.3	8,969.0	74.6	75.7	-90.98	-9,142.4	1,633.3	1,004.0	854.0	149.92	6.697			
18,400.0	8,975.1	18,423.3	8,969.1	75.0	76.1	-90.98	-9,207.4	1,632.7	1,004.0	853.1	150.87	6.655			
18,430.0	8,975.1	18,453.3	8,969.1	75.3	76.3	-90.98	-9,237.4	1,632.5	1,004.0	852.7	151.31	6.635			
18,500.0	8,975.2	18,523.3	8,969.1	75.8	76.9	-90.98	-9,307.4	1,631.9	1,004.1	851.7	152.34	6.591			
18,525.0	8,975.2	18,548.3	8,969.1	76.0	77.0	-90.98	-9,332.4	1,631.7	1,004.1	851.4	152.71	6.575			
18,600.0	8,975.3	18,623.3	8,969.2	76.5	77.6	-90.98	-9,407.4	1,631.1	1,004.1	850.3	153.81	6.528			
18,620.0	8,975.3	18,643.3	8,969.2	76.7	77.7	-90.98	-9,427.4	1,630.9	1,004.1	850.0	154.10	6.516			
18,700.0	8,975.4	18,723.3	8,969.3	77.2	78.3	-90.97	-9,507.4	1,630.2	1,004.2	848.9	155.28	6.467			
18,715.0	8,975.4	18,738.3	8,969.3	77.4	78.4	-90.97	-9,522.4	1,630.1	1,004.2	848.7	155.50	6.458			
18,800.0	8,975.5	18,823.3	8,969.3	78.0	79.0	-90.97	-9,607.4	1,629.4	1,004.2	847.5	156.75	6.407			
18,810.0	8,975.5	18,833.3	8,969.3	78.0	79.1	-90.97	-9,617.4	1,629.3	1,004.2	847.3	156.89	6.401			
18,900.0	8,975.6	18,923.3	8,969.4	78.7	79.8	-90.97	-9,707.4	1,628.6	1,004.3	846.1	158.22	6.347			
18,905.0	8,975.6	18,928.3	8,969.4	78.7	79.8	-90.97	-9,712.4	1,628.5	1,004.3	846.0	158.29	6.345			
19,000.0	8,975.7	19,023.3	8,969.5	79.4	80.5	-90.97	-9,807.4	1,627.8	1,004.3	844.7	159.69	6.289			
19,095.0	8,975.8	19,118.3	8,969.5	80.1	81.2	-90.97	-9,902.4	1,627.0	1,004.4	843.3	161.09	6.235			
19,100.0	8,975.8	19,123.3	8,969.5	80.2	81.2	-90.97	-9,907.4	1,626.9	1,004.4	843.2	161.17	6.232			

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8483-r.5 MWD+IFR1+MS							Rule Assigned:				Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
19,190.0	8,975.9	19,213.3	8,969.6	80.8	81.9	-90.96	-9,997.4	1,626.2	1,004.5	842.0	162.49	6.182		
19,200.0	8,975.9	19,223.3	8,969.6	80.9	82.0	-90.96	-10,007.4	1,626.1	1,004.5	841.8	162.64	6.176		
19,285.0	8,976.0	19,308.3	8,969.6	81.5	82.6	-90.96	-10,092.3	1,625.4	1,004.5	840.6	163.89	6.129		
19,300.0	8,976.0	19,323.3	8,969.7	81.7	82.7	-90.96	-10,107.3	1,625.3	1,004.5	840.4	164.12	6.121		
19,380.0	8,976.1	19,403.3	8,969.7	82.3	83.3	-90.96	-10,187.3	1,624.6	1,004.6	839.3	165.30	6.077		
19,400.0	8,976.1	19,423.3	8,969.7	82.4	83.4	-90.96	-10,207.3	1,624.4	1,004.6	839.0	165.59	6.067		
19,475.0	8,976.2	19,498.3	8,969.8	83.0	84.0	-90.96	-10,282.3	1,623.8	1,004.6	837.9	166.70	6.026		
19,500.0	8,976.2	19,523.3	8,969.8	83.1	84.2	-90.96	-10,307.3	1,623.6	1,004.6	837.6	167.07	6.013		
19,570.0	8,976.3	19,593.3	8,969.8	83.7	84.7	-90.96	-10,377.3	1,623.0	1,004.7	836.6	168.10	5.976		
19,600.0	8,976.3	19,623.3	8,969.9	83.9	84.9	-90.96	-10,407.3	1,622.8	1,004.7	836.1	168.55	5.961		
19,665.0	8,976.4	19,688.3	8,969.9	84.4	85.4	-90.95	-10,472.3	1,622.3	1,004.7	835.2	169.51	5.927		
19,700.0	8,976.4	19,723.3	8,969.9	84.6	85.7	-90.95	-10,507.3	1,622.0	1,004.8	834.7	170.03	5.909		
19,760.0	8,976.4	19,783.3	8,970.0	85.1	86.1	-90.95	-10,567.3	1,621.5	1,004.8	833.9	170.92	5.879		
19,800.0	8,976.5	19,823.3	8,970.0	85.4	86.4	-90.95	-10,607.3	1,621.1	1,004.8	833.3	171.51	5.859		
19,855.0	8,976.5	19,878.3	8,970.0	85.8	86.8	-90.95	-10,662.3	1,620.7	1,004.8	832.5	172.32	5.831		
19,900.0	8,976.6	19,923.3	8,970.1	86.1	87.1	-90.95	-10,707.3	1,620.3	1,004.9	831.9	172.99	5.809		
19,950.0	8,976.6	19,973.3	8,970.1	86.5	87.5	-90.95	-10,757.3	1,619.9	1,004.9	831.2	173.73	5.784		
20,000.0	8,976.7	20,023.3	8,970.1	86.8	87.9	-90.95	-10,807.3	1,619.5	1,004.9	830.5	174.47	5.760		
20,045.0	8,976.7	20,068.3	8,970.2	87.2	88.2	-90.95	-10,852.3	1,619.1	1,005.0	829.8	175.14	5.738		
20,100.0	8,976.8	20,123.3	8,970.2	87.6	88.6	-90.95	-10,907.3	1,618.7	1,005.0	829.0	175.95	5.712		
20,140.0	8,976.8	20,163.3	8,970.2	87.9	88.9	-90.95	-10,947.3	1,618.3	1,005.0	828.5	176.55	5.693		
20,200.0	8,976.9	20,223.3	8,970.3	88.3	89.3	-90.94	-11,007.3	1,617.8	1,005.0	827.6	177.44	5.664		
20,235.0	8,976.9	20,258.3	8,970.3	88.6	89.6	-90.94	-11,042.3	1,617.5	1,005.1	827.1	177.96	5.648		
20,300.0	8,977.0	20,323.3	8,970.3	89.1	90.1	-90.94	-11,107.3	1,617.0	1,005.1	826.2	178.92	5.618		
20,330.0	8,977.0	20,353.3	8,970.3	89.3	90.3	-90.94	-11,137.3	1,616.8	1,005.1	825.8	179.37	5.604		
20,400.0	8,977.1	20,423.3	8,970.4	89.8	90.8	-90.94	-11,207.3	1,616.2	1,005.2	824.8	180.41	5.572		
20,425.0	8,977.1	20,448.3	8,970.4	90.0	91.0	-90.94	-11,232.3	1,616.0	1,005.2	824.4	180.78	5.560		
20,500.0	8,977.2	20,523.3	8,970.5	90.6	91.6	-90.94	-11,307.3	1,615.3	1,005.2	823.3	181.89	5.526		
20,520.0	8,977.2	20,543.3	8,970.5	90.7	91.7	-90.94	-11,327.3	1,615.2	1,005.2	823.0	182.19	5.517		
20,600.0	8,977.3	20,623.3	8,970.5	91.3	92.3	-90.94	-11,407.3	1,614.5	1,005.3	821.9	183.38	5.482		
20,615.0	8,977.3	20,638.3	8,970.5	91.4	92.4	-90.94	-11,422.3	1,614.4	1,005.3	821.7	183.60	5.475		
20,700.0	8,977.4	20,723.3	8,970.6	92.0	93.0	-90.93	-11,507.3	1,613.7	1,005.3	820.5	184.87	5.438		
20,710.0	8,977.4	20,733.3	8,970.6	92.1	93.1	-90.93	-11,517.3	1,613.6	1,005.3	820.3	185.01	5.434		
20,800.0	8,977.5	20,823.3	8,970.7	92.8	93.8	-90.93	-11,607.3	1,612.9	1,005.4	819.0	186.35	5.395		
20,805.0	8,977.5	20,828.3	8,970.7	92.8	93.8	-90.93	-11,612.3	1,612.8	1,005.4	819.0	186.43	5.393		
20,900.0	8,977.6	20,923.3	8,970.7	93.5	94.5	-90.93	-11,707.3	1,612.0	1,005.4	817.6	187.84	5.353		
20,995.0	8,977.7	21,018.3	8,970.8	94.2	95.2	-90.93	-11,802.3	1,611.3	1,005.5	816.2	189.26	5.313		
21,000.0	8,977.7	21,023.3	8,970.8	94.3	95.3	-90.93	-11,807.3	1,611.2	1,005.5	816.2	189.33	5.311		
21,090.0	8,977.8	21,113.3	8,970.9	94.9	95.9	-90.93	-11,897.3	1,610.5	1,005.6	814.9	190.67	5.274		
21,100.0	8,977.8	21,123.3	8,970.9	95.0	96.0	-90.93	-11,907.3	1,610.4	1,005.6	814.7	190.82	5.270		
21,185.0	8,977.9	21,208.3	8,970.9	95.7	96.6	-90.92	-11,992.3	1,609.7	1,005.6	813.5	192.09	5.235		
21,200.0	8,977.9	21,223.3	8,970.9	95.8	96.7	-90.92	-12,007.3	1,609.6	1,005.6	813.3	192.31	5.229		
21,280.0	8,978.0	21,303.3	8,971.0	96.4	97.3	-90.92	-12,087.3	1,608.9	1,005.7	812.2	193.50	5.197		
21,300.0	8,978.0	21,323.3	8,971.0	96.5	97.5	-90.92	-12,107.3	1,608.7	1,005.7	811.9	193.80	5.189		
21,375.0	8,978.1	21,398.3	8,971.0	97.1	98.0	-90.92	-12,182.3	1,608.1	1,005.7	810.8	194.92	5.160		
21,400.0	8,978.1	21,423.3	8,971.1	97.3	98.2	-90.92	-12,207.3	1,607.9	1,005.7	810.4	195.29	5.150		
21,470.0	8,978.2	21,493.3	8,971.1	97.8	98.8	-90.92	-12,277.3	1,607.3	1,005.8	809.4	196.34	5.123		
21,500.0	8,978.2	21,523.3	8,971.1	98.0	99.0	-90.92	-12,307.3	1,607.1	1,005.8	809.0	196.79	5.111		
21,565.0	8,978.3	21,588.3	8,971.2	98.5	99.5	-90.92	-12,372.3	1,606.5	1,005.8	808.1	197.76	5.086		
21,600.0	8,978.3	21,623.3	8,971.2	98.7	99.7	-90.92	-12,407.3	1,606.3	1,005.9	807.6	198.28	5.073		
21,660.0	8,978.4	21,683.3	8,971.2	99.2	100.2	-90.92	-12,467.3	1,605.8	1,005.9	806.7	199.17	5.050		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8483-r.5 MWD+IFR1+MS							Rule Assigned:				Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum		Separation		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Separation (usft)	Factor		
21,700.0	8,978.4	21,723.3	8,971.3	99.5	100.5	-90.91	-12,507.3	1,605.4	1,005.9	806.1	199.77	5.035		
21,755.0	8,978.5	21,778.3	8,971.3	99.9	100.9	-90.91	-12,562.3	1,605.0	1,005.9	805.4	200.59	5.015		
21,800.0	8,978.5	21,823.3	8,971.3	100.2	101.2	-90.91	-12,607.3	1,604.6	1,006.0	804.7	201.26	4.998		
21,850.0	8,978.6	21,873.3	8,971.4	100.6	101.6	-90.91	-12,657.3	1,604.2	1,006.0	804.0	202.01	4.980		
21,900.0	8,978.6	21,923.3	8,971.4	101.0	102.0	-90.91	-12,707.3	1,603.8	1,006.0	803.3	202.76	4.962		
21,945.0	8,978.7	21,968.3	8,971.4	101.3	102.3	-90.91	-12,752.3	1,603.4	1,006.1	802.6	203.43	4.945		
22,000.0	8,978.7	22,023.3	8,971.5	101.7	102.7	-90.91	-12,807.3	1,602.9	1,006.1	801.8	204.25	4.926		
22,040.0	8,978.7	22,063.3	8,971.5	102.0	103.0	-90.91	-12,847.3	1,602.6	1,006.1	801.3	204.85	4.911		
22,100.0	8,978.8	22,123.3	8,971.5	102.5	103.4	-90.91	-12,907.3	1,602.1	1,006.1	800.4	205.75	4.890		
22,135.0	8,978.8	22,158.3	8,971.6	102.7	103.7	-90.91	-12,942.3	1,601.8	1,006.2	799.9	206.27	4.878		
22,200.0	8,978.9	22,223.3	8,971.6	103.2	104.2	-90.90	-13,007.2	1,601.3	1,006.2	799.0	207.24	4.855		
22,230.0	8,978.9	22,253.3	8,971.6	103.5	104.4	-90.90	-13,037.2	1,601.0	1,006.2	798.5	207.69	4.845		
22,300.0	8,979.0	22,323.3	8,971.7	104.0	104.9	-90.90	-13,107.2	1,600.5	1,006.3	797.5	208.74	4.821		
22,325.0	8,979.0	22,348.3	8,971.7	104.2	105.1	-90.90	-13,132.2	1,600.3	1,006.3	797.2	209.11	4.812		
22,400.0	8,979.1	22,423.3	8,971.7	104.7	105.7	-90.90	-13,207.2	1,599.6	1,006.3	796.1	210.24	4.787		
22,420.0	8,979.1	22,443.3	8,971.7	104.9	105.8	-90.90	-13,227.2	1,599.5	1,006.3	795.8	210.54	4.780		
22,500.0	8,979.2	22,523.3	8,971.8	105.5	106.4	-90.90	-13,307.2	1,598.8	1,006.4	794.6	211.73	4.753		
22,515.0	8,979.2	22,538.3	8,971.8	105.6	106.5	-90.90	-13,322.2	1,598.7	1,006.4	794.4	211.96	4.748		
22,600.0	8,979.3	22,623.3	8,971.9	106.2	107.2	-90.90	-13,407.2	1,598.0	1,006.4	793.2	213.23	4.720		
22,610.0	8,979.3	22,633.3	8,971.9	106.3	107.2	-90.90	-13,417.2	1,597.9	1,006.4	793.1	213.38	4.717		
22,700.0	8,979.4	22,723.3	8,971.9	107.0	107.9	-90.89	-13,507.2	1,597.2	1,006.5	791.8	214.73	4.687		
22,705.0	8,979.4	22,728.3	8,971.9	107.0	108.0	-90.89	-13,512.2	1,597.1	1,006.5	791.7	214.80	4.686		
22,800.0	8,979.5	22,823.3	8,972.0	107.7	108.7	-90.89	-13,607.2	1,596.3	1,006.6	790.3	216.23	4.655		
22,895.0	8,979.6	22,918.3	8,972.1	108.4	109.4	-90.89	-13,702.2	1,595.5	1,006.6	789.0	217.65	4.625		
22,900.0	8,979.6	22,923.3	8,972.1	108.5	109.4	-90.89	-13,707.2	1,595.5	1,006.6	788.9	217.73	4.623		
22,990.0	8,979.7	23,013.3	8,972.1	109.2	110.1	-90.89	-13,797.2	1,594.8	1,006.7	787.6	219.07	4.595		
23,000.0	8,979.7	23,023.3	8,972.1	109.2	110.2	-90.89	-13,807.2	1,594.7	1,006.7	787.4	219.22	4.592		
23,085.0	8,979.8	23,108.3	8,972.2	109.9	110.8	-90.89	-13,892.2	1,594.0	1,006.7	786.2	220.50	4.566		
23,100.0	8,979.8	23,123.3	8,972.2	110.0	110.9	-90.89	-13,907.2	1,593.9	1,006.7	786.0	220.72	4.561		
23,180.0	8,979.9	23,203.3	8,972.3	110.6	111.5	-90.89	-13,987.2	1,593.2	1,006.8	784.9	221.92	4.537		
23,200.0	8,979.9	23,223.3	8,972.3	110.7	111.7	-90.88	-14,007.2	1,593.0	1,006.8	784.6	222.22	4.531		
23,275.0	8,980.0	23,298.3	8,972.3	111.3	112.2	-90.88	-14,082.2	1,592.4	1,006.8	783.5	223.35	4.508		
23,300.0	8,980.0	23,323.3	8,972.3	111.5	112.4	-90.88	-14,107.2	1,592.2	1,006.8	783.1	223.72	4.500		
23,370.0	8,980.1	23,393.3	8,972.4	112.0	112.9	-90.88	-14,177.2	1,591.6	1,006.9	782.1	224.77	4.480		
23,400.0	8,980.1	23,423.3	8,972.4	112.2	113.2	-90.88	-14,207.2	1,591.4	1,006.9	781.7	225.22	4.471		
23,465.0	8,980.2	23,488.3	8,972.4	112.7	113.6	-90.88	-14,272.2	1,590.8	1,006.9	780.7	226.20	4.452		
23,500.0	8,980.2	23,523.3	8,972.5	113.0	113.9	-90.88	-14,307.2	1,590.5	1,007.0	780.2	226.73	4.441		
23,560.0	8,980.3	23,583.3	8,972.5	113.4	114.4	-90.88	-14,367.2	1,590.0	1,007.0	779.4	227.63	4.424		
23,600.0	8,980.3	23,623.3	8,972.5	113.7	114.7	-90.88	-14,407.2	1,589.7	1,007.0	778.8	228.23	4.412		
23,655.0	8,980.4	23,678.3	8,972.6	114.1	115.1	-90.88	-14,462.2	1,589.3	1,007.1	778.0	229.05	4.397		
23,700.0	8,980.4	23,723.3	8,972.6	114.5	115.4	-90.88	-14,507.2	1,588.9	1,007.1	777.3	229.73	4.384		
23,750.0	8,980.5	23,773.3	8,972.6	114.9	115.8	-90.87	-14,557.2	1,588.5	1,007.1	776.6	230.48	4.370		
23,800.0	8,980.5	23,823.3	8,972.7	115.2	116.1	-90.87	-14,607.2	1,588.1	1,007.1	775.9	231.23	4.356		
23,845.0	8,980.6	23,868.3	8,972.7	115.6	116.5	-90.87	-14,652.2	1,587.7	1,007.2	775.3	231.91	4.343		
23,900.0	8,980.6	23,923.3	8,972.7	116.0	116.9	-90.87	-14,707.2	1,587.2	1,007.2	774.5	232.73	4.328		
23,940.0	8,980.7	23,963.3	8,972.8	116.3	117.2	-90.87	-14,747.2	1,586.9	1,007.2	773.9	233.33	4.317		
24,000.0	8,980.7	24,023.3	8,972.8	116.7	117.6	-90.87	-14,807.2	1,586.4	1,007.3	773.0	234.24	4.300		
24,035.0	8,980.8	24,058.3	8,972.8	117.0	117.9	-90.87	-14,842.2	1,586.1	1,007.3	772.5	234.76	4.291		
24,100.0	8,980.8	24,123.3	8,972.9	117.5	118.4	-90.87	-14,907.2	1,585.6	1,007.3	771.6	235.74	4.273		
24,130.0	8,980.9	24,153.3	8,972.9	117.7	118.6	-90.87	-14,937.2	1,585.3	1,007.3	771.1	236.19	4.265		
24,147.5	8,980.9	24,170.8	8,972.9	117.8	118.8	-90.87	-14,954.7	1,585.2	1,007.3	770.9	236.45	4.260		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design:		FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1										Offset Site Error:		0.0 usft		
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8483-r.5 MWD+IFR1+MS										Offset Well Error:		3.0 usft		
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Rule Assigned:			Distance				
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside					Between	Between	Minimum	Separation	Warning	
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W			Centres	Ellipses	Separation	Factor		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)			(usft)	(usft)	(usft)			
24,200.0	8,980.9	24,223.3	8,972.9	118.2	119.1	-90.87	-15,007.2	1,584.8			1,007.4	770.1	237.24	4.246		
24,225.0	8,980.9	24,248.3	8,972.9	118.4	119.3	-90.86	-15,032.2	1,584.5			1,007.4	769.8	237.62	4.240		
24,277.5	8,981.0	24,300.8	8,973.0	118.8	119.7	-90.86	-15,084.7	1,584.1			1,007.4	769.0	238.41	4.226		
24,278.2	8,981.0	24,301.5	8,973.0	118.8	119.7	-90.86	-15,085.3	1,584.1			1,007.4	769.0	238.41	4.225 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 #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8530-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
4,370.0	4,298.6	4,665.0	4,584.8	15.6	16.9	32.75	255.5	1,805.3	1,306.8	1,276.5	30.38	43.014	
4,400.0	4,327.7	4,691.9	4,610.9	15.7	17.1	32.86	257.0	1,799.0	1,293.9	1,263.2	30.62	42.257	
4,465.0	4,390.8	4,750.3	4,667.6	16.0	17.3	33.11	260.4	1,785.3	1,265.7	1,234.6	31.13	40.657	
4,500.0	4,424.7	4,781.7	4,698.1	16.2	17.5	33.25	262.2	1,777.9	1,250.6	1,219.2	31.41	39.818	
4,560.0	4,482.9	4,835.6	4,750.4	16.5	17.7	33.49	265.3	1,765.2	1,224.6	1,192.8	31.88	38.413	
4,600.0	4,521.7	4,871.5	4,785.2	16.7	17.9	33.66	267.3	1,756.8	1,207.3	1,175.2	32.20	37.501	
4,655.0	4,575.1	4,920.9	4,833.2	16.9	18.1	33.90	270.2	1,745.2	1,183.6	1,151.0	32.63	36.275	
4,700.0	4,618.8	4,961.4	4,872.4	17.1	18.3	34.11	272.5	1,735.7	1,164.2	1,131.2	32.98	35.297	
4,750.0	4,667.3	5,006.3	4,915.9	17.4	18.5	34.34	275.1	1,725.1	1,142.6	1,109.2	33.38	34.235	
4,800.0	4,715.8	5,051.2	4,959.5	17.6	18.8	34.59	277.7	1,714.6	1,121.1	1,087.3	33.77	33.200	
4,845.0	4,759.5	5,091.6	4,998.7	17.8	19.0	34.82	280.0	1,705.1	1,101.7	1,067.6	34.11	32.298	
4,853.6	4,767.8	5,099.3	5,006.3	17.8	19.0	34.86	280.4	1,703.2	1,098.0	1,063.8	34.18	32.127	
4,900.0	4,812.9	5,141.1	5,046.8	18.0	19.2	34.85	282.8	1,693.4	1,078.3	1,043.8	34.53	31.230	
4,940.0	4,851.9	5,177.4	5,082.0	18.2	19.4	34.83	284.9	1,684.9	1,061.8	1,027.0	34.85	30.472	
5,000.0	4,910.7	5,232.3	5,135.2	18.5	19.6	34.79	288.1	1,672.0	1,037.8	1,002.5	35.33	29.380	
5,035.0	4,945.1	5,264.5	5,166.5	18.7	19.8	34.75	289.9	1,664.4	1,024.3	988.7	35.60	28.771	
5,100.0	5,009.2	5,324.7	5,224.9	19.0	20.1	34.68	293.4	1,650.3	1,000.1	963.9	36.12	27.687	
5,130.0	5,038.8	5,352.6	5,252.0	19.1	20.2	34.63	295.0	1,643.7	989.2	952.9	36.36	27.210	
5,200.0	5,108.2	5,418.2	5,315.7	19.4	20.5	34.51	298.7	1,628.3	965.0	928.1	36.91	26.144	
5,225.0	5,133.0	5,441.8	5,338.5	19.5	20.6	34.46	300.1	1,622.8	956.6	919.5	37.11	25.782	
5,300.0	5,207.6	5,512.8	5,407.4	19.9	20.9	34.27	304.2	1,606.1	932.6	894.9	37.69	24.742	
5,320.0	5,227.5	5,531.8	5,425.9	19.9	21.0	34.21	305.3	1,601.6	926.5	888.6	37.85	24.479	
5,400.0	5,307.3	5,608.3	5,500.1	20.2	21.4	33.95	309.7	1,583.6	903.0	864.5	38.47	23.475	
5,415.0	5,322.3	5,622.7	5,514.1	20.3	21.5	33.89	310.5	1,580.2	898.8	860.2	38.58	23.299	
5,500.0	5,407.3	5,704.6	5,593.5	20.6	21.9	33.53	315.2	1,561.0	876.1	836.9	39.21	22.345	
5,510.0	5,417.3	5,714.3	5,602.9	20.6	21.9	33.48	315.8	1,558.7	873.6	834.3	39.27	22.246	
5,553.7	5,461.0	5,756.7	5,644.1	20.6	22.1	94.76	318.2	1,548.8	862.9	823.3	39.53	21.826	
5,600.0	5,507.3	5,801.5	5,687.6	20.7	22.3	94.64	320.8	1,538.2	851.8	812.0	39.77	21.417	
5,605.0	5,512.3	5,806.4	5,692.3	20.7	22.3	94.63	321.1	1,537.1	850.6	810.8	39.80	21.372	
5,700.0	5,607.3	5,898.6	5,781.8	20.7	22.8	94.38	326.4	1,515.4	827.9	787.6	40.32	20.534	
5,795.0	5,702.3	5,990.8	5,871.2	20.7	23.2	94.11	331.7	1,493.7	805.2	764.4	40.84	19.717	
5,800.0	5,707.3	5,995.6	5,875.9	20.7	23.3	94.10	331.9	1,492.6	804.0	763.2	40.87	19.675	
5,890.0	5,797.3	6,082.9	5,960.6	20.8	23.7	93.83	336.9	1,472.1	782.6	741.2	41.36	18.921	
5,900.0	5,807.3	6,092.6	5,970.0	20.8	23.7	93.80	337.5	1,469.8	780.2	738.8	41.41	18.839	
5,985.0	5,892.3	6,175.1	6,050.1	20.8	24.1	93.53	342.2	1,450.4	759.9	718.0	41.88	18.145	
6,000.0	5,907.3	6,189.7	6,064.2	20.8	24.2	93.48	343.1	1,447.0	756.3	714.4	41.96	18.025	
6,080.0	5,987.3	6,267.3	6,139.5	20.9	24.6	93.21	347.5	1,428.8	737.3	694.9	42.40	17.389	
6,100.0	6,007.3	6,286.7	6,158.3	20.9	24.7	93.15	348.7	1,424.2	732.5	690.0	42.51	17.232	
6,175.0	6,082.3	6,359.5	6,228.9	20.9	25.0	92.88	352.8	1,407.1	714.7	671.8	42.92	16.651	
6,200.0	6,107.3	6,383.7	6,252.5	20.9	25.1	92.79	354.2	1,401.4	708.7	665.7	43.06	16.460	
6,270.0	6,177.3	6,451.6	6,318.4	20.9	25.4	92.52	358.1	1,385.4	692.1	648.6	43.44	15.931	
6,300.0	6,207.3	6,480.8	6,346.6	21.0	25.6	92.40	359.8	1,378.6	685.0	641.4	43.61	15.708	
6,365.0	6,272.3	6,543.8	6,407.8	21.0	25.9	92.14	363.4	1,363.8	669.5	625.6	43.96	15.229	
6,400.0	6,307.3	6,577.8	6,440.8	21.0	26.1	91.99	365.4	1,355.8	661.2	617.1	44.16	14.975	
6,460.0	6,367.3	6,636.0	6,497.3	21.0	26.3	91.73	368.7	1,342.1	647.0	602.5	44.49	14.544	
6,500.0	6,407.3	6,674.8	6,534.9	21.0	26.5	91.55	371.0	1,333.0	637.5	592.8	44.70	14.261	
6,555.0	6,462.3	6,728.2	6,586.7	21.1	26.8	91.29	374.0	1,320.4	624.5	579.5	45.00	13.877	
6,600.0	6,507.3	6,771.8	6,629.1	21.1	27.0	91.07	376.5	1,310.2	613.9	568.6	45.25	13.568	
6,650.0	6,557.3	6,812.2	6,668.3	21.1	27.2	90.87	378.8	1,300.9	602.4	556.8	45.55	13.223	
6,700.0	6,607.3	6,852.8	6,707.8	21.1	27.4	90.67	380.9	1,292.2	591.6	545.7	45.87	12.898	
6,745.0	6,652.3	6,889.4	6,743.7	21.1	27.6	90.50	382.7	1,284.8	582.4	536.3	46.14	12.623	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	
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		
6,800.0	6,707.3	6,934.5	6,788.0	21.2	27.8	90.29	384.8	1,276.3	572.0	525.5	46.46	12.312		
6,840.0	6,747.3	6,967.5	6,820.4	21.2	27.9	90.15	386.2	1,270.5	565.0	518.3	46.69	12.101		
6,900.0	6,807.3	7,017.2	6,869.4	21.2	28.2	89.95	388.2	1,262.4	555.2	508.2	47.01	11.810		
6,935.0	6,842.3	7,046.3	6,898.2	21.2	28.3	89.83	389.3	1,258.1	550.0	502.8	47.19	11.654		
7,000.0	6,907.3	7,100.0	6,951.3	21.3	28.5	89.64	391.0	1,250.8	541.2	493.7	47.52	11.390		
7,030.0	6,937.3	7,125.8	6,976.9	21.3	28.6	89.56	391.8	1,247.7	537.6	489.9	47.66	11.280		
7,100.0	7,007.3	7,184.8	7,035.5	21.3	28.9	89.38	393.4	1,241.3	530.1	482.1	47.97	11.050		
7,125.0	7,032.3	7,200.0	7,050.7	21.3	29.0	89.34	393.7	1,239.9	527.8	479.7	48.06	10.981		
7,200.0	7,107.3	7,269.4	7,119.8	21.3	29.2	89.19	395.1	1,234.3	521.8	473.4	48.37	10.788		
7,220.0	7,127.3	7,286.3	7,136.7	21.4	29.3	89.16	395.4	1,233.2	520.5	472.0	48.44	10.744		
7,300.0	7,207.3	7,354.3	7,204.6	21.4	29.5	89.05	396.2	1,229.7	516.4	467.7	48.70	10.602		
7,315.0	7,222.3	7,367.1	7,217.4	21.4	29.6	89.04	396.3	1,229.2	515.8	467.0	48.75	10.581		
7,400.0	7,307.3	7,439.5	7,289.7	21.4	29.7	88.99	396.8	1,227.5	513.8	464.9	48.92	10.504		
7,410.0	7,317.3	7,448.0	7,298.2	21.4	29.8	88.99	396.8	1,227.4	513.7	464.8	48.93	10.499		
7,454.3	7,361.6	7,488.0	7,338.3	21.5	29.8	88.98	396.8	1,227.3	513.6	464.6	48.97	10.489		
7,500.0	7,407.3	7,533.7	7,384.0	21.5	29.8	88.98	396.8	1,227.3	513.6	464.6	49.00	10.482		
7,505.0	7,412.3	7,538.7	7,389.0	21.5	29.8	88.98	396.8	1,227.3	513.6	464.6	49.00	10.481		
7,600.0	7,507.3	7,633.7	7,484.0	21.5	29.8	88.98	396.8	1,227.3	513.6	464.5	49.08	10.465		
7,695.0	7,602.3	7,728.7	7,579.0	21.6	29.9	88.98	396.8	1,227.3	513.6	464.4	49.15	10.450		
7,700.0	7,607.3	7,733.7	7,584.0	21.6	29.9	88.98	396.8	1,227.3	513.6	464.4	49.15	10.449		
7,790.0	7,697.3	7,823.7	7,674.0	21.6	29.9	88.98	396.8	1,227.3	513.6	464.4	49.22	10.434		
7,800.0	7,707.3	7,833.7	7,684.0	21.6	29.9	88.98	396.8	1,227.3	513.6	464.4	49.23	10.432		
7,885.0	7,792.3	7,918.7	7,769.0	21.7	29.9	88.98	396.8	1,227.3	513.6	464.3	49.30	10.418		
7,900.0	7,807.3	7,933.7	7,784.0	21.7	29.9	88.98	396.8	1,227.3	513.6	464.3	49.31	10.416		
7,980.0	7,887.3	8,013.7	7,864.0	21.7	29.9	88.98	396.8	1,227.3	513.6	464.2	49.37	10.403		
8,000.0	7,907.3	8,033.7	7,884.0	21.7	29.9	88.98	396.8	1,227.3	513.6	464.2	49.39	10.399		
8,075.0	7,982.3	8,108.7	7,959.0	21.8	30.0	88.98	396.8	1,227.3	513.6	464.1	49.44	10.387		
8,100.0	8,007.3	8,133.7	7,984.0	21.8	30.0	88.98	396.8	1,227.3	513.6	464.1	49.46	10.383		
8,170.0	8,077.3	8,203.7	8,054.0	21.8	30.0	88.98	396.8	1,227.3	513.6	464.1	49.52	10.371		
8,200.0	8,107.3	8,233.7	8,084.0	21.8	30.0	88.98	396.8	1,227.3	513.6	464.0	49.54	10.366		
8,265.0	8,172.3	8,298.7	8,149.0	21.8	30.0	88.98	396.8	1,227.3	513.6	464.0	49.59	10.356		
8,300.0	8,207.3	8,333.7	8,184.0	21.9	30.0	88.98	396.8	1,227.3	513.6	464.0	49.62	10.350		
8,360.0	8,267.3	8,393.7	8,244.0	21.9	30.0	88.98	396.8	1,227.3	513.6	463.9	49.67	10.340		
8,400.0	8,307.3	8,433.7	8,284.0	21.9	30.1	88.98	396.8	1,227.3	513.6	463.9	49.70	10.333		
8,455.0	8,362.3	8,488.7	8,339.0	21.9	30.1	88.98	396.8	1,227.3	513.6	463.8	49.74	10.325		
8,485.8	8,393.0	8,519.5	8,369.7	21.9	30.1	88.98	396.8	1,227.3	513.6	463.8	49.76	10.321 CC		
8,500.0	8,407.3	8,533.8	8,384.1	21.9	30.1	-91.54	396.8	1,227.3	513.6	463.8	49.77	10.320		
8,550.0	8,457.1	8,585.0	8,435.2	22.0	30.1	-91.63	394.1	1,227.3	513.6	463.8	49.78	10.317		
8,600.0	8,506.5	8,636.3	8,486.0	22.0	30.1	-91.71	386.9	1,227.2	513.6	463.8	49.79	10.315		
8,645.0	8,550.2	8,682.6	8,531.0	22.0	30.1	-91.78	376.5	1,227.1	513.7	463.9	49.80	10.314		
8,650.0	8,555.0	8,687.7	8,536.0	22.0	30.1	-91.78	375.2	1,227.1	513.7	463.9	49.80	10.314		
8,700.0	8,602.3	8,739.1	8,584.8	22.0	30.1	-91.83	359.0	1,227.0	513.7	463.9	49.81	10.313		
8,740.0	8,639.0	8,780.3	8,622.7	22.0	30.1	-91.87	342.9	1,226.9	513.7	463.9	49.81	10.313		
8,750.0	8,648.0	8,790.6	8,632.0	22.1	30.1	-91.87	338.4	1,226.8	513.7	463.9	49.81	10.313		
8,800.0	8,691.7	8,842.1	8,677.1	22.1	30.1	-91.90	313.8	1,226.6	513.7	463.9	49.81	10.313		
8,835.0	8,721.0	8,878.2	8,707.4	22.1	30.1	-91.91	294.1	1,226.5	513.7	463.9	49.82	10.313		
8,850.0	8,733.2	8,893.6	8,719.9	22.1	30.1	-91.91	285.1	1,226.4	513.7	463.9	49.82	10.313		
8,900.0	8,772.1	8,945.1	8,760.0	22.1	30.2	-91.90	252.7	1,226.1	513.8	463.9	49.82	10.312		
8,930.0	8,794.1	8,976.0	8,782.5	22.2	30.2	-91.89	231.6	1,225.9	513.8	463.9	49.83	10.311		
8,950.0	8,808.1	8,996.6	8,796.9	22.2	30.2	-91.88	216.9	1,225.8	513.8	464.0	49.83	10.311		
9,000.0	8,841.0	9,048.1	8,830.5	22.2	30.2	-91.85	177.9	1,225.5	513.8	464.0	49.84	10.309		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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
9,025.0	8,856.1	9,073.9	8,846.0	22.2	30.2	-91.82	157.3	1,225.3	513.8	463.9	49.85	10.307
9,050.0	8,870.4	9,099.6	8,860.5	22.2	30.2	-91.80	136.1	1,225.1	513.8	463.9	49.86	10.305
9,100.0	8,896.2	9,151.0	8,886.5	22.3	30.3	-91.73	91.8	1,224.8	513.8	463.9	49.89	10.300
9,120.0	8,905.5	9,171.5	8,895.8	22.3	30.3	-91.70	73.5	1,224.6	513.8	463.9	49.90	10.297
9,150.0	8,918.2	9,202.3	8,908.4	22.3	30.3	-91.65	45.4	1,224.4	513.8	463.9	49.92	10.292
9,200.0	8,936.1	9,253.6	8,926.1	22.4	30.3	-91.56	-2.7	1,224.0	513.8	463.9	49.97	10.283
9,215.0	8,940.7	9,269.0	8,930.6	22.4	30.3	-91.54	-17.4	1,223.9	513.8	463.8	49.99	10.280
9,250.0	8,950.0	9,304.8	8,939.4	22.4	30.4	-91.46	-52.2	1,223.6	513.8	463.8	50.03	10.271
9,300.0	8,959.6	9,355.9	8,948.2	22.5	30.4	-91.35	-102.5	1,223.2	513.8	463.7	50.09	10.257
9,310.0	8,961.0	9,366.1	8,949.5	22.5	30.4	-91.32	-112.6	1,223.1	513.8	463.7	50.11	10.254
9,350.0	8,964.9	9,406.9	8,952.5	22.5	30.5	-91.22	-153.3	1,222.7	513.8	463.7	50.17	10.241
9,385.2	8,966.0	9,442.5	8,953.0	22.6	30.5	-91.15	-188.9	1,222.5	513.8	463.6	50.24	10.228
9,400.0	8,966.0	9,457.3	8,953.0	22.6	30.5	-91.15	-203.7	1,222.3	513.9	463.6	50.27	10.222
9,405.0	8,966.0	9,462.3	8,953.0	22.6	30.5	-91.15	-208.7	1,222.3	513.9	463.6	50.28	10.220
9,500.0	8,966.1	9,557.3	8,953.1	22.7	30.7	-91.15	-303.7	1,221.5	513.9	463.4	50.51	10.174
9,595.0	8,966.2	9,652.3	8,953.2	22.9	30.8	-91.14	-398.7	1,220.7	514.0	463.2	50.79	10.119
9,600.0	8,966.2	9,657.3	8,953.2	22.9	30.8	-91.14	-403.7	1,220.7	514.0	463.2	50.81	10.116
9,690.0	8,966.3	9,747.3	8,953.3	23.0	31.0	-91.14	-493.7	1,219.9	514.0	462.9	51.11	10.057
9,700.0	8,966.3	9,757.3	8,953.3	23.0	31.0	-91.14	-503.7	1,219.8	514.0	462.9	51.15	10.050
9,785.0	8,966.4	9,842.3	8,953.3	23.2	31.1	-91.14	-588.7	1,219.1	514.1	462.6	51.47	9.988
9,800.0	8,966.4	9,857.3	8,953.3	23.2	31.2	-91.14	-603.7	1,219.0	514.1	462.6	51.53	9.976
9,880.0	8,966.5	9,937.3	8,953.4	23.4	31.3	-91.14	-683.7	1,218.4	514.1	462.3	51.87	9.912
9,900.0	8,966.5	9,957.3	8,953.4	23.4	31.4	-91.14	-703.7	1,218.2	514.1	462.2	51.96	9.895
9,975.0	8,966.6	10,032.3	8,953.5	23.6	31.5	-91.14	-778.7	1,217.6	514.2	461.9	52.31	9.830
10,000.0	8,966.6	10,057.3	8,953.5	23.7	31.6	-91.14	-803.7	1,217.4	514.2	461.8	52.43	9.808
10,070.0	8,966.7	10,127.3	8,953.6	23.8	31.7	-91.13	-873.7	1,216.8	514.2	461.5	52.78	9.748
10,100.0	8,966.7	10,157.3	8,953.6	23.9	31.8	-91.13	-903.7	1,216.5	514.3	461.3	52.94	9.715
10,165.0	8,966.8	10,222.3	8,953.6	24.1	32.0	-91.13	-968.7	1,216.0	514.3	461.0	53.29	9.651
10,200.0	8,966.8	10,257.3	8,953.7	24.2	32.1	-91.13	-1,003.7	1,215.7	514.3	460.8	53.49	9.616
10,260.0	8,966.9	10,317.3	8,953.7	24.3	32.2	-91.13	-1,063.7	1,215.2	514.3	460.5	53.84	9.554
10,300.0	8,966.9	10,357.3	8,953.7	24.4	32.3	-91.13	-1,103.7	1,214.9	514.4	460.3	54.07	9.512
10,355.0	8,967.0	10,412.3	8,953.8	24.6	32.5	-91.13	-1,158.7	1,214.4	514.4	460.0	54.41	9.453
10,400.0	8,967.0	10,457.3	8,953.8	24.7	32.6	-91.13	-1,203.7	1,214.1	514.4	459.7	54.70	9.405
10,450.0	8,967.1	10,507.3	8,953.9	24.9	32.7	-91.12	-1,253.7	1,213.6	514.5	459.4	55.02	9.350
10,500.0	8,967.1	10,557.3	8,953.9	25.1	32.9	-91.12	-1,303.7	1,213.2	514.5	459.1	55.36	9.294
10,545.0	8,967.2	10,602.3	8,953.9	25.2	33.0	-91.12	-1,348.7	1,212.9	514.5	458.8	55.67	9.243
10,600.0	8,967.2	10,657.3	8,954.0	25.4	33.2	-91.12	-1,403.7	1,212.4	514.5	458.5	56.05	9.180
10,640.0	8,967.3	10,697.3	8,954.0	25.5	33.3	-91.12	-1,443.6	1,212.1	514.6	458.2	56.34	9.133
10,700.0	8,967.3	10,757.3	8,954.1	25.7	33.5	-91.12	-1,503.6	1,211.6	514.6	457.8	56.78	9.063
10,735.0	8,967.4	10,792.3	8,954.1	25.9	33.6	-91.12	-1,538.6	1,211.3	514.6	457.6	57.04	9.022
10,800.0	8,967.4	10,857.3	8,954.1	26.1	33.8	-91.12	-1,603.6	1,210.7	514.7	457.1	57.54	8.944
10,830.0	8,967.5	10,887.3	8,954.2	26.2	33.9	-91.12	-1,633.6	1,210.5	514.7	456.9	57.77	8.908
10,900.0	8,967.5	10,957.3	8,954.2	26.5	34.2	-91.11	-1,703.6	1,209.9	514.7	456.4	58.33	8.824
10,925.0	8,967.6	10,982.3	8,954.2	26.6	34.2	-91.11	-1,728.6	1,209.7	514.7	456.2	58.53	8.794
11,000.0	8,967.6	11,057.3	8,954.3	26.9	34.5	-91.11	-1,803.6	1,209.1	514.8	455.6	59.15	8.703
11,020.0	8,967.6	11,077.3	8,954.3	27.0	34.6	-91.11	-1,823.6	1,208.9	514.8	455.5	59.31	8.679
11,100.0	8,967.7	11,157.3	8,954.4	27.3	34.9	-91.11	-1,903.6	1,208.3	514.8	454.8	59.99	8.582
11,115.0	8,967.7	11,172.3	8,954.4	27.4	34.9	-91.11	-1,918.6	1,208.1	514.8	454.7	60.12	8.563
11,200.0	8,967.8	11,257.3	8,954.5	27.7	35.3	-91.11	-2,003.6	1,207.4	514.9	454.0	60.86	8.460
11,210.0	8,967.8	11,267.3	8,954.5	27.8	35.3	-91.11	-2,013.6	1,207.4	514.9	453.9	60.95	8.447
11,300.0	8,967.9	11,357.3	8,954.6	28.2	35.6	-91.10	-2,103.6	1,206.6	514.9	453.2	61.76	8.337

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

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Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8530-r.5 MWD+IFR1+MS						Rule Assigned:				Offset Well Error:	3.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
11,305.0	8,967.9	11,362.3	8,954.6	28.2	35.7	-91.10	-2,108.6	1,206.6	514.9	453.1	61.81	8.331		
11,400.0	8,968.0	11,457.3	8,954.6	28.6	36.0	-91.10	-2,203.6	1,205.8	515.0	452.3	62.68	8.216		
11,495.0	8,968.1	11,552.3	8,954.7	29.1	36.4	-91.10	-2,298.6	1,205.0	515.1	451.5	63.58	8.101		
11,500.0	8,968.1	11,557.3	8,954.7	29.1	36.5	-91.10	-2,303.6	1,205.0	515.1	451.4	63.63	8.095		
11,590.0	8,968.2	11,647.3	8,954.8	29.6	36.8	-91.10	-2,393.6	1,204.2	515.1	450.6	64.50	7.986		
11,600.0	8,968.2	11,657.3	8,954.8	29.6	36.9	-91.10	-2,403.6	1,204.1	515.1	450.5	64.60	7.974		
11,685.0	8,968.3	11,742.3	8,954.9	30.0	37.2	-91.09	-2,488.6	1,203.4	515.2	449.7	65.44	7.873		
11,700.0	8,968.3	11,757.3	8,954.9	30.1	37.3	-91.09	-2,503.6	1,203.3	515.2	449.6	65.59	7.855		
11,780.0	8,968.4	11,837.3	8,954.9	30.5	37.7	-91.09	-2,583.6	1,202.6	515.2	448.8	66.39	7.760		
11,800.0	8,968.4	11,857.3	8,955.0	30.6	37.8	-91.09	-2,603.6	1,202.5	515.2	448.6	66.59	7.737		
11,875.0	8,968.5	11,932.3	8,955.0	31.0	38.1	-91.09	-2,678.6	1,201.8	515.3	447.9	67.36	7.649		
11,900.0	8,968.5	11,957.3	8,955.0	31.1	38.2	-91.09	-2,703.6	1,201.6	515.3	447.7	67.62	7.620		
11,970.0	8,968.6	12,027.3	8,955.1	31.5	38.5	-91.09	-2,773.6	1,201.1	515.3	447.0	68.35	7.539		
12,000.0	8,968.6	12,057.3	8,955.1	31.7	38.7	-91.09	-2,803.6	1,200.8	515.3	446.7	68.67	7.505		
12,065.0	8,968.7	12,122.3	8,955.2	32.0	39.0	-91.09	-2,868.6	1,200.3	515.4	446.0	69.36	7.431		
12,100.0	8,968.7	12,157.3	8,955.2	32.2	39.1	-91.09	-2,903.6	1,200.0	515.4	445.7	69.73	7.391		
12,160.0	8,968.8	12,217.3	8,955.2	32.5	39.4	-91.08	-2,963.6	1,199.5	515.4	445.1	70.38	7.324		
12,200.0	8,968.8	12,257.3	8,955.3	32.8	39.6	-91.08	-3,003.6	1,199.2	515.5	444.7	70.81	7.279		
12,255.0	8,968.9	12,312.3	8,955.3	33.1	39.9	-91.08	-3,058.6	1,198.7	515.5	444.1	71.41	7.218		
12,300.0	8,968.9	12,357.3	8,955.4	33.3	40.1	-91.08	-3,103.6	1,198.3	515.5	443.6	71.91	7.169		
12,350.0	8,969.0	12,407.3	8,955.4	33.6	40.4	-91.08	-3,153.6	1,197.9	515.5	443.1	72.46	7.115		
12,400.0	8,969.0	12,457.3	8,955.4	33.9	40.6	-91.08	-3,203.6	1,197.5	515.6	442.6	73.02	7.061		
12,445.0	8,969.1	12,502.3	8,955.5	34.2	40.8	-91.08	-3,248.6	1,197.1	515.6	442.1	73.53	7.013		
12,500.0	8,969.1	12,557.3	8,955.5	34.5	41.1	-91.08	-3,303.6	1,196.7	515.6	441.5	74.15	6.954		
12,540.0	8,969.2	12,597.3	8,955.5	34.7	41.3	-91.07	-3,343.6	1,196.3	515.7	441.1	74.60	6.912		
12,600.0	8,969.2	12,657.3	8,955.6	35.1	41.6	-91.07	-3,403.6	1,195.8	515.7	440.4	75.29	6.850		
12,635.0	8,969.3	12,692.3	8,955.6	35.3	41.8	-91.07	-3,438.6	1,195.6	515.7	440.0	75.69	6.814		
12,700.0	8,969.3	12,757.3	8,955.7	35.6	42.1	-91.07	-3,503.6	1,195.0	515.8	439.3	76.44	6.747		
12,730.0	8,969.4	12,787.3	8,955.7	35.8	42.3	-91.07	-3,533.6	1,194.8	515.8	439.0	76.79	6.717		
12,800.0	8,969.4	12,857.3	8,955.8	36.3	42.7	-91.07	-3,603.6	1,194.2	515.8	438.2	77.61	6.646		
12,825.0	8,969.5	12,882.3	8,955.8	36.4	42.8	-91.07	-3,628.6	1,194.0	515.8	437.9	77.90	6.622		
12,900.0	8,969.5	12,957.3	8,955.8	36.9	43.2	-91.07	-3,703.6	1,193.4	515.9	437.1	78.78	6.548		
12,920.0	8,969.6	12,977.3	8,955.9	37.0	43.3	-91.07	-3,723.6	1,193.2	515.9	436.9	79.02	6.528		
13,000.0	8,969.6	13,057.3	8,955.9	37.5	43.7	-91.06	-3,803.6	1,192.5	515.9	435.9	79.97	6.451		
13,015.0	8,969.7	13,072.3	8,955.9	37.6	43.8	-91.06	-3,818.6	1,192.4	515.9	435.8	80.15	6.437		
13,100.0	8,969.7	13,157.3	8,956.0	38.1	44.3	-91.06	-3,903.6	1,191.7	516.0	434.8	81.18	6.356		
13,110.0	8,969.8	13,167.3	8,956.0	38.2	44.4	-91.06	-3,913.6	1,191.6	516.0	434.7	81.30	6.347		
13,200.0	8,969.8	13,257.3	8,956.1	38.7	44.9	-91.06	-4,003.6	1,190.9	516.0	433.7	82.39	6.264		
13,205.0	8,969.8	13,262.3	8,956.1	38.7	44.9	-91.06	-4,008.6	1,190.8	516.0	433.6	82.45	6.259		
13,300.0	8,969.9	13,357.3	8,956.2	39.3	45.4	-91.06	-4,103.6	1,190.1	516.1	432.5	83.61	6.173		
13,395.0	8,970.0	13,452.3	8,956.2	40.0	45.9	-91.05	-4,198.6	1,189.3	516.2	431.4	84.78	6.088		
13,400.0	8,970.0	13,457.3	8,956.2	40.0	46.0	-91.05	-4,203.6	1,189.2	516.2	431.3	84.84	6.084		
13,490.0	8,970.1	13,547.3	8,956.3	40.6	46.5	-91.05	-4,293.6	1,188.5	516.2	430.2	85.96	6.005		
13,500.0	8,970.1	13,557.3	8,956.3	40.6	46.5	-91.05	-4,303.5	1,188.4	516.2	430.1	86.08	5.997		
13,585.0	8,970.2	13,642.3	8,956.4	41.2	47.0	-91.05	-4,388.5	1,187.7	516.3	429.1	87.14	5.924		
13,600.0	8,970.2	13,657.3	8,956.4	41.3	47.1	-91.05	-4,403.5	1,187.6	516.3	428.9	87.33	5.912		
13,680.0	8,970.3	13,737.3	8,956.5	41.8	47.6	-91.05	-4,483.5	1,186.9	516.3	428.0	88.34	5.845		
13,700.0	8,970.3	13,757.3	8,956.5	41.9	47.7	-91.05	-4,503.5	1,186.7	516.3	427.7	88.59	5.828		
13,775.0	8,970.4	13,832.3	8,956.5	42.4	48.1	-91.05	-4,578.5	1,186.1	516.4	426.8	89.54	5.767		
13,800.0	8,970.4	13,857.3	8,956.6	42.6	48.3	-91.04	-4,603.5	1,185.9	516.4	426.5	89.86	5.747		
13,870.0	8,970.5	13,927.3	8,956.6	43.0	48.7	-91.04	-4,673.5	1,185.3	516.4	425.7	90.75	5.691		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
13,900.0	8,970.5	13,957.3	8,956.6	43.2	48.9	-91.04	-91.04	-4,703.5	1,185.1	516.4	425.3	91.13	5.667
13,965.0	8,970.6	14,022.3	8,956.7	43.7	49.3	-91.04	-91.04	-4,768.5	1,184.6	516.5	424.5	91.96	5.616
14,000.0	8,970.6	14,057.3	8,956.7	43.9	49.5	-91.04	-91.04	-4,803.5	1,184.3	516.5	424.1	92.41	5.589
14,060.0	8,970.7	14,117.3	8,956.8	44.3	49.8	-91.04	-91.04	-4,863.5	1,183.8	516.5	423.3	93.19	5.543
14,100.0	8,970.7	14,157.3	8,956.8	44.6	50.1	-91.04	-91.04	-4,903.5	1,183.4	516.6	422.9	93.70	5.513
14,155.0	8,970.8	14,212.3	8,956.8	44.9	50.4	-91.04	-91.04	-4,958.5	1,183.0	516.6	422.2	94.41	5.471
14,200.0	8,970.8	14,257.3	8,956.9	45.2	50.7	-91.04	-91.04	-5,003.5	1,182.6	516.6	421.6	95.00	5.438
14,250.0	8,970.9	14,307.3	8,956.9	45.6	51.0	-91.03	-91.03	-5,053.5	1,182.2	516.6	421.0	95.65	5.401
14,300.0	8,971.0	14,357.3	8,957.0	45.9	51.3	-91.03	-91.03	-5,103.5	1,181.8	516.7	420.4	96.30	5.365
14,345.0	8,971.0	14,402.3	8,957.0	46.2	51.6	-91.03	-91.03	-5,148.5	1,181.4	516.7	419.8	96.89	5.333
14,400.0	8,971.1	14,457.3	8,957.0	46.6	51.9	-91.03	-91.03	-5,203.5	1,181.0	516.7	419.1	97.61	5.294
14,440.0	8,971.1	14,497.3	8,957.1	46.8	52.2	-91.03	-91.03	-5,243.5	1,180.6	516.8	418.6	98.14	5.266
14,500.0	8,971.2	14,557.3	8,957.1	47.2	52.5	-91.03	-91.03	-5,303.5	1,180.1	516.8	417.9	98.93	5.224
14,535.0	8,971.2	14,592.3	8,957.2	47.5	52.7	-91.03	-91.03	-5,338.5	1,179.8	516.8	417.4	99.39	5.200
14,600.0	8,971.3	14,657.3	8,957.2	47.9	53.2	-91.03	-91.03	-5,403.5	1,179.3	516.8	416.6	100.25	5.156
14,630.0	8,971.3	14,687.3	8,957.2	48.1	53.3	-91.03	-91.03	-5,433.5	1,179.0	516.9	416.2	100.65	5.135
14,700.0	8,971.4	14,757.3	8,957.3	48.6	53.8	-91.02	-91.02	-5,503.5	1,178.5	516.9	415.3	101.58	5.089
14,725.0	8,971.4	14,782.3	8,957.3	48.8	53.9	-91.02	-91.02	-5,528.5	1,178.3	516.9	415.0	101.91	5.072
14,800.0	8,971.5	14,857.3	8,957.4	49.3	54.4	-91.02	-91.02	-5,603.5	1,177.6	517.0	414.1	102.91	5.024
14,820.0	8,971.5	14,877.3	8,957.4	49.4	54.5	-91.02	-91.02	-5,623.5	1,177.5	517.0	413.8	103.18	5.011
14,900.0	8,971.6	14,957.3	8,957.4	50.0	55.0	-91.02	-91.02	-5,703.5	1,176.8	517.0	412.8	104.25	4.960
14,915.0	8,971.6	14,972.3	8,957.5	50.1	55.1	-91.02	-91.02	-5,718.5	1,176.7	517.0	412.6	104.45	4.950
15,000.0	8,971.7	15,057.3	8,957.5	50.7	55.7	-91.02	-91.02	-5,803.5	1,176.0	517.1	411.5	105.59	4.897
15,010.0	8,971.7	15,067.3	8,957.5	50.7	55.7	-91.02	-91.02	-5,813.5	1,175.9	517.1	411.4	105.72	4.891
15,100.0	8,971.8	15,157.3	8,957.6	51.4	56.3	-91.01	-91.01	-5,903.5	1,175.2	517.1	410.2	106.94	4.836
15,105.0	8,971.8	15,162.3	8,957.6	51.4	56.3	-91.01	-91.01	-5,908.5	1,175.1	517.1	410.1	107.00	4.833
15,200.0	8,971.9	15,257.3	8,957.7	52.1	57.0	-91.01	-91.01	-6,003.5	1,174.3	517.2	408.9	108.29	4.776
15,295.0	8,972.0	15,352.3	8,957.8	52.7	57.6	-91.01	-91.01	-6,098.5	1,173.5	517.2	407.7	109.58	4.720
15,300.0	8,972.0	15,357.3	8,957.8	52.8	57.6	-91.01	-91.01	-6,103.5	1,173.5	517.2	407.6	109.65	4.717
15,390.0	8,972.0	15,447.3	8,957.8	53.4	58.2	-91.01	-91.01	-6,193.5	1,172.8	517.3	406.4	110.87	4.666
15,400.0	8,972.1	15,457.3	8,957.8	53.5	58.3	-91.01	-91.01	-6,203.5	1,172.7	517.3	406.3	111.01	4.660
15,485.0	8,972.1	15,542.3	8,957.9	54.1	58.8	-91.00	-91.00	-6,288.5	1,172.0	517.4	405.2	112.17	4.612
15,500.0	8,972.2	15,557.3	8,957.9	54.2	58.9	-91.00	-91.00	-6,303.5	1,171.8	517.4	405.0	112.37	4.604
15,580.0	8,972.2	15,637.3	8,958.0	54.7	59.4	-91.00	-91.00	-6,383.5	1,171.2	517.4	403.9	113.47	4.560
15,600.0	8,972.3	15,657.3	8,958.0	54.9	59.6	-91.00	-91.00	-6,403.5	1,171.0	517.4	403.7	113.74	4.549
15,675.0	8,972.3	15,732.3	8,958.1	55.4	60.0	-91.00	-91.00	-6,478.5	1,170.4	517.5	402.7	114.77	4.509
15,700.0	8,972.4	15,757.3	8,958.1	55.6	60.2	-91.00	-91.00	-6,503.5	1,170.2	517.5	402.4	115.12	4.495
15,770.0	8,972.4	15,827.3	8,958.1	56.1	60.7	-91.00	-91.00	-6,573.5	1,169.6	517.5	401.4	116.08	4.458
15,800.0	8,972.5	15,857.3	8,958.2	56.3	60.9	-91.00	-91.00	-6,603.5	1,169.4	517.5	401.0	116.49	4.443
15,865.0	8,972.5	15,922.3	8,958.2	56.7	61.3	-91.00	-91.00	-6,668.5	1,168.8	517.6	400.2	117.39	4.409
15,900.0	8,972.6	15,957.3	8,958.3	57.0	61.5	-91.00	-91.00	-6,703.5	1,168.5	517.6	399.7	117.88	4.391
15,960.0	8,972.6	16,017.3	8,958.3	57.4	61.9	-90.99	-90.99	-6,763.5	1,168.0	517.6	398.9	118.71	4.361
16,000.0	8,972.7	16,057.3	8,958.3	57.7	62.2	-90.99	-90.99	-6,803.5	1,167.7	517.7	398.4	119.26	4.341
16,055.0	8,972.7	16,112.3	8,958.4	58.1	62.6	-90.99	-90.99	-6,858.5	1,167.3	517.7	397.7	120.02	4.313
16,100.0	8,972.8	16,157.3	8,958.4	58.4	62.9	-90.99	-90.99	-6,903.5	1,166.9	517.7	397.1	120.65	4.291
16,150.0	8,972.8	16,207.3	8,958.5	58.8	63.2	-90.99	-90.99	-6,953.5	1,166.5	517.7	396.4	121.34	4.267
16,200.0	8,972.9	16,257.3	8,958.5	59.1	63.5	-90.99	-90.99	-7,003.5	1,166.1	517.8	395.7	122.04	4.243
16,245.0	8,972.9	16,302.3	8,958.5	59.4	63.8	-90.99	-90.99	-7,048.5	1,165.7	517.8	395.1	122.67	4.221
16,300.0	8,973.0	16,357.3	8,958.6	59.8	64.2	-90.99	-90.99	-7,103.5	1,165.2	517.8	394.4	123.43	4.195
16,340.0	8,973.0	16,397.3	8,958.6	60.1	64.5	-90.98	-90.98	-7,143.5	1,164.9	517.8	393.9	123.99	4.176
16,400.0	8,973.1	16,457.3	8,958.7	60.5	64.9	-90.98	-90.98	-7,203.4	1,164.4	517.9	393.0	124.83	4.149

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

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Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1													Offset Site Error: 0.0 usft	
Survey Program: Reference		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8530-r.5 MWD+IFR1+MS						Rule Assigned:					Offset Well Error: 3.0 usft	
Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation		Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
16,435.0	8,973.1	16,492.3	8,958.7	60.8	65.1	-90.98	-7,238.4	1,164.1	517.9	392.6	125.32	4.133		
16,500.0	8,973.2	16,557.3	8,958.7	61.3	65.6	-90.98	-7,303.4	1,163.6	517.9	391.7	126.23	4.103		
16,530.0	8,973.2	16,587.3	8,958.8	61.5	65.8	-90.98	-7,333.4	1,163.3	518.0	391.3	126.65	4.090		
16,600.0	8,973.3	16,657.3	8,958.8	62.0	66.2	-90.98	-7,403.4	1,162.7	518.0	390.4	127.64	4.058		
16,625.0	8,973.3	16,682.3	8,958.8	62.1	66.4	-90.98	-7,428.4	1,162.5	518.0	390.0	127.99	4.047		
16,700.0	8,973.4	16,757.3	8,958.9	62.7	66.9	-90.98	-7,503.4	1,161.9	518.1	389.0	129.04	4.015		
16,720.0	8,973.4	16,777.3	8,958.9	62.8	67.0	-90.98	-7,523.4	1,161.8	518.1	388.7	129.32	4.006		
16,800.0	8,973.5	16,857.3	8,959.0	63.4	67.6	-90.97	-7,603.4	1,161.1	518.1	387.7	130.45	3.972		
16,815.0	8,973.5	16,872.3	8,959.0	63.5	67.7	-90.97	-7,618.4	1,161.0	518.1	387.5	130.66	3.965		
16,900.0	8,973.6	16,957.3	8,959.1	64.1	68.3	-90.97	-7,703.4	1,160.3	518.2	386.3	131.86	3.930		
16,910.0	8,973.6	16,967.3	8,959.1	64.2	68.3	-90.97	-7,713.4	1,160.2	518.2	386.2	132.01	3.925		
17,000.0	8,973.7	17,057.3	8,959.1	64.8	69.0	-90.97	-7,803.4	1,159.4	518.2	384.9	133.28	3.888		
17,005.0	8,973.7	17,062.3	8,959.1	64.9	69.0	-90.97	-7,808.4	1,159.4	518.2	384.9	133.35	3.886		
17,100.0	8,973.8	17,157.3	8,959.2	65.6	69.6	-90.97	-7,903.4	1,158.6	518.3	383.6	134.69	3.848		
17,195.0	8,973.9	17,252.3	8,959.3	66.3	70.3	-90.96	-7,998.4	1,157.8	518.3	382.3	136.04	3.810		
17,200.0	8,973.9	17,257.3	8,959.3	66.3	70.3	-90.96	-8,003.4	1,157.8	518.3	382.2	136.11	3.808		
17,290.0	8,974.0	17,347.3	8,959.4	66.9	70.9	-90.96	-8,093.4	1,157.0	518.4	381.0	137.39	3.773		
17,300.0	8,974.0	17,357.3	8,959.4	67.0	71.0	-90.96	-8,103.4	1,157.0	518.4	380.9	137.54	3.769		
17,385.0	8,974.1	17,442.3	8,959.4	67.6	71.6	-90.96	-8,188.4	1,156.2	518.4	379.7	138.75	3.737		
17,400.0	8,974.1	17,457.3	8,959.5	67.7	71.7	-90.96	-8,203.4	1,156.1	518.5	379.5	138.96	3.731		
17,480.0	8,974.2	17,537.3	8,959.5	68.3	72.3	-90.96	-8,283.4	1,155.5	518.5	378.4	140.10	3.701		
17,500.0	8,974.2	17,557.3	8,959.5	68.5	72.4	-90.96	-8,303.4	1,155.3	518.5	378.1	140.38	3.694		
17,575.0	8,974.2	17,632.3	8,959.6	69.0	72.9	-90.96	-8,378.4	1,154.7	518.6	377.1	141.46	3.666		
17,600.0	8,974.3	17,657.3	8,959.6	69.2	73.1	-90.96	-8,403.4	1,154.5	518.6	376.8	141.81	3.657		
17,670.0	8,974.3	17,727.3	8,959.7	69.7	73.6	-90.95	-8,473.4	1,153.9	518.6	375.8	142.81	3.631		
17,700.0	8,974.4	17,757.3	8,959.7	69.9	73.8	-90.95	-8,503.4	1,153.6	518.6	375.4	143.24	3.621		
17,765.0	8,974.4	17,822.3	8,959.8	70.4	74.2	-90.95	-8,568.4	1,153.1	518.7	374.5	144.17	3.598		
17,800.0	8,974.5	17,857.3	8,959.8	70.7	74.5	-90.95	-8,603.4	1,152.8	518.7	374.0	144.67	3.585		
17,860.0	8,974.5	17,917.3	8,959.8	71.1	74.9	-90.95	-8,663.4	1,152.3	518.7	373.2	145.53	3.564		
17,900.0	8,974.6	17,957.3	8,959.9	71.4	75.2	-90.95	-8,703.4	1,152.0	518.7	372.6	146.11	3.550		
17,955.0	8,974.6	18,012.3	8,959.9	71.8	75.6	-90.95	-8,758.4	1,151.5	518.8	371.9	146.90	3.532		
18,000.0	8,974.7	18,057.3	8,959.9	72.1	75.9	-90.95	-8,803.4	1,151.2	518.8	371.3	147.54	3.516		
18,050.0	8,974.7	18,107.3	8,960.0	72.5	76.2	-90.94	-8,853.4	1,150.7	518.8	370.6	148.26	3.499		
18,100.0	8,974.8	18,157.3	8,960.0	72.8	76.6	-90.94	-8,903.4	1,150.3	518.9	369.9	148.98	3.483		
18,145.0	8,974.8	18,202.3	8,960.1	73.2	76.9	-90.94	-8,948.4	1,150.0	518.9	369.3	149.63	3.468		
18,200.0	8,974.9	18,257.3	8,960.1	73.6	77.3	-90.94	-9,003.4	1,149.5	518.9	368.5	150.42	3.450		
18,240.0	8,974.9	18,297.3	8,960.1	73.9	77.6	-90.94	-9,043.4	1,149.2	518.9	367.9	151.00	3.437		
18,300.0	8,975.0	18,357.3	8,960.2	74.3	78.0	-90.94	-9,103.4	1,148.7	519.0	367.1	151.86	3.417		
18,335.0	8,975.0	18,392.3	8,960.2	74.6	78.2	-90.94	-9,138.4	1,148.4	519.0	366.6	152.37	3.406		
18,400.0	8,975.1	18,457.3	8,960.3	75.0	78.7	-90.94	-9,203.4	1,147.8	519.0	365.7	153.30	3.386		
18,430.0	8,975.1	18,487.3	8,960.3	75.3	78.9	-90.94	-9,233.4	1,147.6	519.1	365.3	153.74	3.376		
18,500.0	8,975.2	18,557.3	8,960.3	75.8	79.4	-90.93	-9,303.4	1,147.0	519.1	364.3	154.75	3.354		
18,525.0	8,975.2	18,582.3	8,960.4	76.0	79.6	-90.93	-9,328.4	1,146.8	519.1	364.0	155.11	3.347		
18,600.0	8,975.3	18,657.3	8,960.4	76.5	80.1	-90.93	-9,403.4	1,146.2	519.2	363.0	156.19	3.324		
18,620.0	8,975.3	18,677.3	8,960.4	76.7	80.2	-90.93	-9,423.4	1,146.0	519.2	362.7	156.48	3.318		
18,700.0	8,975.4	18,757.3	8,960.5	77.2	80.8	-90.93	-9,503.4	1,145.4	519.2	361.6	157.64	3.294		
18,715.0	8,975.4	18,772.3	8,960.5	77.4	80.9	-90.93	-9,518.4	1,145.2	519.2	361.4	157.86	3.289		
18,800.0	8,975.5	18,857.3	8,960.6	78.0	81.5	-90.93	-9,603.4	1,144.5	519.3	360.2	159.09	3.264		
18,810.0	8,975.5	18,867.3	8,960.6	78.0	81.6	-90.93	-9,613.4	1,144.5	519.3	360.0	159.24	3.261		
18,900.0	8,975.6	18,957.3	8,960.7	78.7	82.2	-90.92	-9,703.4	1,143.7	519.3	358.8	160.54	3.235		
18,905.0	8,975.6	18,962.3	8,960.7	78.7	82.3	-90.92	-9,708.4	1,143.7	519.3	358.7	160.61	3.233		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation Factor	
19,000.0	8,975.7	19,057.3	8,960.7	79.4	82.9	-90.92	-9,803.4	1,142.9	519.4	357.4	161.99	3.206
19,095.0	8,975.8	19,152.3	8,960.8	80.1	83.6	-90.92	-9,898.4	1,142.1	519.4	356.1	163.37	3.179
19,100.0	8,975.8	19,157.3	8,960.8	80.2	83.6	-90.92	-9,903.4	1,142.1	519.4	356.0	163.45	3.178
19,190.0	8,975.9	19,247.3	8,960.9	80.8	84.3	-90.92	-9,993.4	1,141.3	519.5	354.7	164.76	3.153
19,200.0	8,975.9	19,257.3	8,960.9	80.9	84.4	-90.92	-10,003.4	1,141.2	519.5	354.6	164.90	3.150
19,285.0	8,976.0	19,342.3	8,961.0	81.5	85.0	-90.92	-10,088.3	1,140.5	519.5	353.4	166.14	3.127
19,300.0	8,976.0	19,357.3	8,961.0	81.7	85.1	-90.92	-10,103.3	1,140.4	519.6	353.2	166.36	3.123
19,380.0	8,976.1	19,437.3	8,961.1	82.3	85.6	-90.91	-10,183.3	1,139.7	519.6	352.1	167.52	3.102
19,400.0	8,976.1	19,457.3	8,961.1	82.4	85.8	-90.91	-10,203.3	1,139.6	519.6	351.8	167.81	3.096
19,475.0	8,976.2	19,532.3	8,961.1	83.0	86.3	-90.91	-10,278.3	1,138.9	519.7	350.7	168.91	3.077
19,500.0	8,976.2	19,557.3	8,961.1	83.1	86.5	-90.91	-10,303.3	1,138.7	519.7	350.4	169.27	3.070
19,570.0	8,976.3	19,627.3	8,961.2	83.7	87.0	-90.91	-10,373.3	1,138.2	519.7	349.4	170.29	3.052
19,600.0	8,976.3	19,657.3	8,961.2	83.9	87.2	-90.91	-10,403.3	1,137.9	519.7	349.0	170.73	3.044
19,665.0	8,976.4	19,722.3	8,961.3	84.4	87.7	-90.91	-10,468.3	1,137.4	519.8	348.1	171.68	3.027
19,700.0	8,976.4	19,757.3	8,961.3	84.6	87.9	-90.91	-10,503.3	1,137.1	519.8	347.6	172.19	3.019
19,760.0	8,976.4	19,817.3	8,961.4	85.1	88.4	-90.90	-10,563.3	1,136.6	519.8	346.7	173.07	3.004
19,800.0	8,976.5	19,857.3	8,961.4	85.4	88.6	-90.90	-10,603.3	1,136.3	519.8	346.2	173.65	2.994
19,855.0	8,976.5	19,912.3	8,961.4	85.8	89.0	-90.90	-10,658.3	1,135.8	519.9	345.4	174.46	2.980
19,900.0	8,976.6	19,957.3	8,961.5	86.1	89.4	-90.90	-10,703.3	1,135.4	519.9	344.8	175.12	2.969
19,950.0	8,976.6	20,007.3	8,961.5	86.5	89.7	-90.90	-10,753.3	1,135.0	519.9	344.1	175.85	2.957
20,000.0	8,976.7	20,057.3	8,961.6	86.8	90.1	-90.90	-10,803.3	1,134.6	520.0	343.4	176.58	2.945
20,045.0	8,976.7	20,102.3	8,961.6	87.2	90.4	-90.90	-10,848.3	1,134.2	520.0	342.7	177.24	2.934
20,100.0	8,976.8	20,157.3	8,961.6	87.6	90.8	-90.90	-10,903.3	1,133.8	520.0	342.0	178.05	2.921
20,140.0	8,976.8	20,197.3	8,961.7	87.9	91.1	-90.90	-10,943.3	1,133.4	520.0	341.4	178.63	2.911
20,200.0	8,976.9	20,257.3	8,961.7	88.3	91.5	-90.89	-11,003.3	1,132.9	520.1	340.6	179.51	2.897
20,235.0	8,976.9	20,292.3	8,961.7	88.6	91.8	-90.89	-11,038.3	1,132.7	520.1	340.1	180.03	2.889
20,300.0	8,977.0	20,357.3	8,961.8	89.1	92.2	-90.89	-11,103.3	1,132.1	520.1	339.1	180.98	2.874
20,330.0	8,977.0	20,387.3	8,961.8	89.3	92.5	-90.89	-11,133.3	1,131.9	520.1	338.7	181.42	2.867
20,400.0	8,977.1	20,457.3	8,961.9	89.8	93.0	-90.89	-11,203.3	1,131.3	520.2	337.7	182.45	2.851
20,425.0	8,977.1	20,482.3	8,961.9	90.0	93.1	-90.89	-11,228.3	1,131.1	520.2	337.4	182.82	2.845
20,500.0	8,977.2	20,557.3	8,962.0	90.6	93.7	-90.89	-11,303.3	1,130.5	520.2	336.3	183.92	2.829
20,520.0	8,977.2	20,577.3	8,962.0	90.7	93.8	-90.89	-11,323.3	1,130.3	520.3	336.0	184.21	2.824
20,600.0	8,977.3	20,657.3	8,962.0	91.3	94.4	-90.89	-11,403.3	1,129.6	520.3	334.9	185.39	2.807
20,615.0	8,977.3	20,672.3	8,962.0	91.4	94.5	-90.88	-11,418.3	1,129.5	520.3	334.7	185.61	2.803
20,700.0	8,977.4	20,757.3	8,962.1	92.0	95.1	-90.88	-11,503.3	1,128.8	520.4	333.5	186.86	2.785
20,710.0	8,977.4	20,767.3	8,962.1	92.1	95.2	-90.88	-11,513.3	1,128.7	520.4	333.4	187.01	2.783
20,800.0	8,977.5	20,857.3	8,962.2	92.8	95.9	-90.88	-11,603.3	1,128.0	520.4	332.1	188.33	2.763
20,805.0	8,977.5	20,862.3	8,962.2	92.8	95.9	-90.88	-11,608.3	1,127.9	520.4	332.0	188.40	2.762
20,900.0	8,977.6	20,957.3	8,962.3	93.5	96.6	-90.88	-11,703.3	1,127.2	520.5	330.7	189.80	2.742
20,995.0	8,977.7	21,052.3	8,962.4	94.2	97.3	-90.88	-11,798.3	1,126.4	520.5	329.3	191.20	2.722
21,000.0	8,977.7	21,057.3	8,962.4	94.3	97.3	-90.88	-11,803.3	1,126.3	520.5	329.3	191.28	2.721
21,090.0	8,977.8	21,147.3	8,962.4	94.9	98.0	-90.87	-11,893.3	1,125.6	520.6	328.0	192.60	2.703
21,100.0	8,977.8	21,157.3	8,962.4	95.0	98.0	-90.87	-11,903.3	1,125.5	520.6	327.8	192.75	2.701
21,185.0	8,977.9	21,242.3	8,962.5	95.7	98.7	-90.87	-11,988.3	1,124.8	520.6	326.6	194.01	2.684
21,200.0	8,977.9	21,257.3	8,962.5	95.8	98.8	-90.87	-12,003.3	1,124.7	520.6	326.4	194.23	2.681
21,280.0	8,978.0	21,337.3	8,962.6	96.4	99.3	-90.87	-12,083.3	1,124.0	520.7	325.3	195.41	2.665
21,300.0	8,978.0	21,357.3	8,962.6	96.5	99.5	-90.87	-12,103.3	1,123.8	520.7	325.0	195.70	2.661
21,375.0	8,978.1	21,432.3	8,962.7	97.1	100.0	-90.87	-12,178.3	1,123.2	520.8	323.9	196.81	2.646
21,400.0	8,978.1	21,457.3	8,962.7	97.3	100.2	-90.87	-12,203.3	1,123.0	520.8	323.6	197.18	2.641
21,470.0	8,978.2	21,527.3	8,962.7	97.8	100.7	-90.86	-12,273.3	1,122.4	520.8	322.6	198.22	2.627
21,500.0	8,978.2	21,557.3	8,962.8	98.0	100.9	-90.86	-12,303.3	1,122.2	520.8	322.2	198.66	2.622

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

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Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1													Offset Site Error: 0.0 usft			
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8530-r.5 MWD+IFR1+MS						Rule Assigned:				Offset Well Error: 3.0 usft				
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance		Minimum		Separation		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
21,565.0	8,978.3	21,622.3	8,962.8	98.5	101.4	-90.86	-12,368.3	1,121.7	520.9	321.2	199.62	2.609				
21,600.0	8,978.3	21,657.3	8,962.8	98.7	101.7	-90.86	-12,403.3	1,121.4	520.9	320.7	200.14	2.603				
21,660.0	8,978.4	21,717.3	8,962.9	99.2	102.1	-90.86	-12,463.3	1,120.9	520.9	319.9	201.02	2.591				
21,700.0	8,978.4	21,757.3	8,962.9	99.5	102.4	-90.86	-12,503.3	1,120.5	520.9	319.3	201.62	2.584				
21,755.0	8,978.5	21,812.3	8,963.0	99.9	102.8	-90.86	-12,558.3	1,120.1	521.0	318.5	202.43	2.574				
21,800.0	8,978.5	21,857.3	8,963.0	100.2	103.1	-90.86	-12,603.3	1,119.7	521.0	317.9	203.10	2.565				
21,850.0	8,978.6	21,907.3	8,963.0	100.6	103.5	-90.86	-12,653.3	1,119.3	521.0	317.2	203.84	2.556				
21,900.0	8,978.6	21,957.3	8,963.1	101.0	103.9	-90.85	-12,703.3	1,118.9	521.1	316.5	204.58	2.547				
21,945.0	8,978.7	22,002.3	8,963.1	101.3	104.2	-90.85	-12,748.3	1,118.5	521.1	315.8	205.24	2.539				
22,000.0	8,978.7	22,057.3	8,963.2	101.7	104.6	-90.85	-12,803.3	1,118.1	521.1	315.1	206.06	2.529				
22,040.0	8,978.7	22,097.3	8,963.2	102.0	104.9	-90.85	-12,843.3	1,117.7	521.1	314.5	206.65	2.522				
22,100.0	8,978.8	22,157.3	8,963.2	102.5	105.3	-90.85	-12,903.3	1,117.2	521.2	313.6	207.54	2.511				
22,135.0	8,978.8	22,192.3	8,963.3	102.7	105.6	-90.85	-12,938.2	1,116.9	521.2	313.1	208.06	2.505				
22,200.0	8,978.9	22,257.3	8,963.3	103.2	106.1	-90.85	-13,003.2	1,116.4	521.2	312.2	209.02	2.494				
22,230.0	8,978.9	22,287.3	8,963.3	103.5	106.3	-90.85	-13,033.2	1,116.1	521.2	311.8	209.47	2.488				
22,300.0	8,979.0	22,357.3	8,963.4	104.0	106.8	-90.85	-13,103.2	1,115.6	521.3	310.8	210.51	2.476				
22,325.0	8,979.0	22,382.3	8,963.4	104.2	107.0	-90.85	-13,128.2	1,115.4	521.3	310.4	210.88	2.472				
22,400.0	8,979.1	22,457.3	8,963.5	104.7	107.5	-90.84	-13,203.2	1,114.7	521.3	309.4	211.99	2.459				
22,420.0	8,979.1	22,477.3	8,963.5	104.9	107.7	-90.84	-13,223.2	1,114.6	521.4	309.1	212.29	2.456				
22,500.0	8,979.2	22,557.3	8,963.6	105.5	108.3	-90.84	-13,303.2	1,113.9	521.4	307.9	213.48	2.442				
22,515.0	8,979.2	22,572.3	8,963.6	105.6	108.4	-90.84	-13,318.2	1,113.8	521.4	307.7	213.70	2.440				
22,600.0	8,979.3	22,657.3	8,963.6	106.2	109.0	-90.84	-13,403.2	1,113.1	521.5	306.5	214.96	2.426				
22,610.0	8,979.3	22,667.3	8,963.7	106.3	109.1	-90.84	-13,413.2	1,113.0	521.5	306.4	215.11	2.424				
22,700.0	8,979.4	22,757.3	8,963.7	107.0	109.7	-90.84	-13,503.2	1,112.3	521.5	305.1	216.45	2.409				
22,705.0	8,979.4	22,762.3	8,963.7	107.0	109.8	-90.84	-13,508.2	1,112.2	521.5	305.0	216.52	2.409				
22,800.0	8,979.5	22,857.3	8,963.8	107.7	110.5	-90.83	-13,603.2	1,111.4	521.6	303.6	217.93	2.393				
22,895.0	8,979.6	22,952.3	8,963.9	108.4	111.2	-90.83	-13,698.2	1,110.6	521.6	302.3	219.35	2.378				
22,900.0	8,979.6	22,957.3	8,963.9	108.5	111.2	-90.83	-13,703.2	1,110.6	521.6	302.2	219.42	2.377				
22,990.0	8,979.7	23,047.3	8,964.0	109.2	111.9	-90.83	-13,793.2	1,109.9	521.7	300.9	220.76	2.363				
23,000.0	8,979.7	23,057.3	8,964.0	109.2	111.9	-90.83	-13,803.2	1,109.8	521.7	300.8	220.91	2.362				
23,085.0	8,979.8	23,142.3	8,964.0	109.9	112.6	-90.83	-13,888.2	1,109.1	521.7	299.6	222.17	2.348				
23,100.0	8,979.8	23,157.3	8,964.0	110.0	112.7	-90.83	-13,903.2	1,108.9	521.7	299.3	222.40	2.346				
23,180.0	8,979.9	23,237.3	8,964.1	110.6	113.3	-90.83	-13,983.2	1,108.3	521.8	298.2	223.59	2.334				
23,200.0	8,979.9	23,257.3	8,964.1	110.7	113.4	-90.82	-14,003.2	1,108.1	521.8	297.9	223.88	2.331				
23,275.0	8,980.0	23,332.3	8,964.2	111.3	114.0	-90.82	-14,078.2	1,107.5	521.8	296.8	225.00	2.319				
23,300.0	8,980.0	23,357.3	8,964.2	111.5	114.1	-90.82	-14,103.2	1,107.3	521.9	296.5	225.37	2.316				
23,370.0	8,980.1	23,427.3	8,964.3	112.0	114.7	-90.82	-14,173.2	1,106.7	521.9	295.5	226.42	2.305				
23,400.0	8,980.1	23,457.3	8,964.3	112.2	114.9	-90.82	-14,203.2	1,106.5	521.9	295.1	226.86	2.301				
23,465.0	8,980.2	23,522.3	8,964.3	112.7	115.4	-90.82	-14,268.2	1,105.9	522.0	294.1	227.83	2.291				
23,500.0	8,980.2	23,557.3	8,964.4	113.0	115.6	-90.82	-14,303.2	1,105.6	522.0	293.6	228.35	2.286				
23,560.0	8,980.3	23,617.3	8,964.4	113.4	116.1	-90.82	-14,363.2	1,105.1	522.0	292.8	229.25	2.277				
23,600.0	8,980.3	23,657.3	8,964.4	113.7	116.3	-90.82	-14,403.2	1,104.8	522.0	292.2	229.84	2.271				
23,655.0	8,980.4	23,712.3	8,964.5	114.1	116.8	-90.81	-14,458.2	1,104.4	522.1	291.4	230.66	2.263				
23,700.0	8,980.4	23,757.3	8,964.5	114.5	117.1	-90.81	-14,503.2	1,104.0	522.1	290.8	231.33	2.257				
23,750.0	8,980.5	23,807.3	8,964.6	114.9	117.5	-90.81	-14,553.2	1,103.6	522.1	290.0	232.08	2.250				
23,800.0	8,980.5	23,857.3	8,964.6	115.2	117.8	-90.81	-14,603.2	1,103.2	522.1	289.3	232.83	2.243				
23,845.0	8,980.6	23,902.3	8,964.6	115.6	118.2	-90.81	-14,648.2	1,102.8	522.2	288.7	233.50	2.236				
23,900.0	8,980.6	23,957.3	8,964.7	116.0	118.6	-90.81	-14,703.2	1,102.3	522.2	287.9	234.32	2.229				
23,940.0	8,980.7	23,997.3	8,964.7	116.3	118.9	-90.81	-14,743.2	1,102.0	522.2	287.3	234.91	2.223				
24,000.0	8,980.7	24,057.3	8,964.8	116.7	119.3	-90.81	-14,803.2	1,101.5	522.3	286.5	235.81	2.215				
24,035.0	8,980.8	24,092.3	8,964.8	117.0	119.6	-90.81	-14,838.2	1,101.2	522.3	286.0	236.33	2.210				

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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:		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
24,100.0	8,980.8	24,157.3	8,964.8	117.5	120.0	-90.80	-14,903.2	1,100.7	522.3	285.0	237.30	2.201	
24,130.0	8,980.9	24,187.3	8,964.9	117.7	120.3	-90.80	-14,933.2	1,100.4	522.3	284.6	237.75	2.197	
24,147.5	8,980.9	24,204.9	8,964.9	117.8	120.4	-90.80	-14,950.7	1,100.3	522.3	284.3	238.01	2.195	
24,200.0	8,980.9	24,257.3	8,964.9	118.2	120.8	-90.80	-15,003.2	1,099.8	522.4	283.6	238.79	2.188	
24,225.0	8,980.9	24,282.3	8,964.9	118.4	121.0	-90.80	-15,028.2	1,099.6	522.4	283.2	239.17	2.184	
24,277.5	8,981.0	24,334.9	8,965.0	118.8	121.3	-90.80	-15,080.7	1,099.2	522.4	282.5	239.95	2.177	
24,278.2	8,981.0	24,335.5	8,965.0	118.8	121.4	-90.80	-15,081.3	1,099.2	522.4	282.5	239.96	2.177 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 #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #707H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8417-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum Separation		Separation Factor		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
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		
1,500.0	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		
1,501.3	1,501.3	1,502.0	1,502.0	4.7	4.7	-152.45	-0.5	-30.0	30.0	21.1	8.88	3.377 CC		
1,520.0	1,520.0	1,520.8	1,520.8	4.7	4.8	-152.39	-0.4	-30.0	30.0	21.1	8.94	3.359 ES		
1,600.0	1,600.0	1,601.3	1,601.3	4.8	4.9	-151.22	1.0	-29.0	30.5	21.4	9.17	3.331		
1,615.0	1,615.0	1,616.4	1,616.4	4.9	4.9	-150.84	1.5	-28.7	30.7	21.5	9.23	3.326		
1,700.0	1,699.8	1,701.9	1,701.7	5.1	5.2	-147.87	5.4	-26.0	32.2	22.6	9.59	3.358		
1,710.0	1,709.8	1,711.9	1,711.7	5.1	5.2	-147.44	6.0	-25.6	32.5	22.8	9.64	3.368		
1,800.0	1,799.5	1,802.3	1,801.8	5.3	5.4	-143.05	12.7	-21.0	35.2	25.2	10.00	3.524		
1,805.0	1,804.4	1,807.4	1,806.8	5.3	5.4	-142.78	13.1	-20.7	35.4	25.4	10.02	3.536		
1,900.0	1,898.7	1,902.7	1,901.4	5.6	5.7	-137.59	22.8	-14.1	39.8	29.4	10.37	3.836		
1,995.0	1,992.5	1,997.7	1,995.2	5.9	5.9	-132.98	34.8	-5.9	45.8	35.2	10.63	4.306		
2,000.0	1,997.5	2,002.6	2,000.1	5.9	5.9	-132.82	35.4	-5.5	46.2	35.5	10.65	4.334		
2,090.0	2,085.8	2,092.3	2,088.7	6.2	6.1	-131.58	47.0	2.4	54.0	43.0	11.01	4.902		
2,100.0	2,095.6	2,102.2	2,098.5	6.3	6.1	-131.60	48.3	3.3	54.9	43.9	11.05	4.972		
2,185.0	2,178.5	2,186.7	2,182.0	6.6	6.4	-132.63	59.2	10.7	64.2	52.8	11.44	5.616		
2,200.1	2,193.2	2,201.7	2,196.8	6.6	6.4	-132.95	61.2	12.1	66.1	54.6	11.51	5.739		
2,280.0	2,270.7	2,281.0	2,275.0	6.9	6.7	-134.60	71.4	19.1	76.0	64.1	11.89	6.389		
2,300.0	2,290.1	2,300.8	2,294.6	6.9	6.7	-134.94	74.0	20.8	78.4	66.5	11.98	6.546		
2,375.0	2,362.9	2,375.2	2,368.1	7.2	7.0	-136.07	83.6	27.4	87.8	75.4	12.35	7.108		
2,400.0	2,387.1	2,400.0	2,392.6	7.3	7.0	-136.40	86.8	29.5	90.9	78.4	12.47	7.289		
2,470.0	2,455.0	2,469.5	2,461.2	7.5	7.3	-137.20	95.8	35.7	99.6	86.8	12.82	7.770		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #707H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8417-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		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
2,500.0	2,484.1	2,499.2	2,490.6	7.6	7.4	-137.50	99.6	38.3	103.4	90.4	12.97	7.968
2,565.0	2,547.2	2,563.7	2,554.3	7.8	7.6	-138.09	108.0	44.0	111.5	98.2	13.31	8.378
2,600.0	2,581.2	2,598.4	2,588.6	8.0	7.7	-138.37	112.5	47.0	115.9	102.4	13.49	8.590
2,660.0	2,639.4	2,657.9	2,647.4	8.2	7.9	-138.80	120.1	52.3	123.4	109.6	13.81	8.936
2,700.0	2,678.2	2,697.6	2,686.6	8.3	8.0	-139.06	125.3	55.8	128.4	114.4	14.02	9.158
2,755.0	2,731.6	2,752.2	2,740.4	8.6	8.2	-139.39	132.3	60.6	135.3	121.0	14.32	9.448
2,800.0	2,775.2	2,796.8	2,784.5	8.7	8.4	-139.64	138.1	64.5	140.9	126.4	14.56	9.677
2,850.0	2,823.7	2,846.4	2,833.5	8.9	8.6	-139.89	144.5	68.9	147.2	132.4	14.84	9.919
2,900.0	2,872.3	2,896.0	2,882.5	9.1	8.8	-140.11	150.9	73.3	153.5	138.4	15.12	10.151
2,945.0	2,915.9	2,940.7	2,926.6	9.3	8.9	-140.31	156.7	77.2	159.2	143.8	15.37	10.351
3,000.0	2,969.3	2,995.2	2,980.5	9.5	9.1	-140.52	163.7	82.0	166.1	150.4	15.69	10.586
3,040.0	3,008.1	3,034.9	3,019.7	9.7	9.3	-140.67	168.9	85.5	171.1	155.2	15.92	10.750
3,100.0	3,066.3	3,094.4	3,078.5	9.9	9.5	-140.87	176.6	90.8	178.6	162.4	16.26	10.985
3,135.0	3,100.3	3,129.1	3,112.8	10.1	9.6	-140.98	181.1	93.8	183.0	166.6	16.47	11.117
3,200.0	3,163.3	3,193.6	3,176.5	10.4	9.9	-141.17	189.4	99.5	191.2	174.4	16.85	11.352
3,230.0	3,192.4	3,223.4	3,205.8	10.5	10.0	-141.26	193.2	102.1	195.0	178.0	17.02	11.455
3,300.0	3,260.4	3,292.8	3,274.4	10.8	10.3	-141.44	202.2	108.3	203.8	186.4	17.44	11.689
3,325.0	3,284.6	3,317.6	3,298.9	10.9	10.4	-141.50	205.4	110.4	206.9	189.4	17.58	11.769
3,400.0	3,357.4	3,392.0	3,372.4	11.2	10.7	-141.68	215.0	117.0	216.4	198.4	18.03	12.000
3,420.0	3,376.8	3,411.9	3,392.0	11.3	10.8	-141.72	217.6	118.8	218.9	200.8	18.15	12.059
3,500.0	3,454.4	3,491.2	3,470.4	11.7	11.1	-141.88	227.9	125.8	229.0	210.3	18.64	12.287
3,515.0	3,469.0	3,506.1	3,485.1	11.7	11.1	-141.91	229.8	127.1	230.9	212.1	18.73	12.328
3,600.0	3,551.5	3,590.4	3,568.4	12.1	11.5	-142.07	240.7	134.5	241.6	222.3	19.25	12.552
3,610.0	3,561.2	3,600.3	3,578.2	12.1	11.5	-142.09	242.0	135.4	242.8	223.5	19.31	12.578
3,700.0	3,648.5	3,689.6	3,666.4	12.5	11.9	-142.24	253.5	143.2	254.2	234.3	19.86	12.799
3,705.0	3,653.3	3,694.6	3,671.2	12.6	11.9	-142.25	254.1	143.7	254.8	234.9	19.89	12.811
3,800.0	3,745.5	3,788.8	3,764.3	13.0	12.3	-142.39	266.3	152.0	266.8	246.3	20.48	13.028
3,895.0	3,837.7	3,883.1	3,857.4	13.4	12.7	-142.53	278.5	160.3	278.7	257.7	21.07	13.230
3,900.0	3,842.5	3,888.0	3,862.3	13.4	12.7	-142.53	279.2	160.7	279.4	258.3	21.10	13.240
3,990.0	3,929.9	3,977.3	3,950.5	13.8	13.0	-142.65	290.7	168.6	290.7	269.0	21.66	13.420
4,000.0	3,939.6	3,987.2	3,960.3	13.9	13.1	-142.66	292.0	169.5	292.0	270.2	21.73	13.439
4,085.0	4,022.0	4,071.5	4,043.6	14.3	13.4	-142.76	302.9	176.9	302.7	280.4	22.26	13.597
4,100.0	4,036.6	4,086.4	4,058.3	14.3	13.5	-142.78	304.8	178.2	304.6	282.2	22.36	13.624
4,180.0	4,114.2	4,165.8	4,136.6	14.7	13.8	-142.86	315.1	185.2	314.7	291.8	22.86	13.764
4,200.0	4,133.6	4,185.6	4,156.2	14.8	13.9	-142.88	317.6	187.0	317.2	294.2	22.99	13.797
4,275.0	4,206.4	4,258.8	4,228.5	15.2	14.2	-142.99	326.9	193.3	326.7	303.3	23.45	13.932
4,300.0	4,230.7	4,283.0	4,252.5	15.3	14.3	-143.05	329.8	195.3	330.0	306.4	23.61	13.976
4,370.0	4,298.6	4,350.6	4,319.4	15.6	14.6	-143.31	337.5	200.6	339.4	315.3	24.08	14.097
4,400.0	4,327.7	4,379.5	4,348.1	15.7	14.7	-143.45	340.6	202.7	343.5	319.3	24.28	14.148
4,465.0	4,390.8	4,442.1	4,410.2	16.0	15.0	-143.81	346.9	207.0	352.8	328.0	24.74	14.259
4,500.0	4,424.7	4,475.7	4,443.6	16.2	15.1	-144.04	350.1	209.1	357.9	332.9	24.99	14.319
4,560.0	4,482.9	4,533.3	4,500.9	16.5	15.3	-144.49	355.1	212.5	366.8	341.4	25.44	14.423
4,600.0	4,521.7	4,571.6	4,539.0	16.7	15.5	-144.82	358.2	214.6	373.0	347.3	25.74	14.493
4,655.0	4,575.1	4,624.1	4,591.3	16.9	15.7	-145.30	362.1	217.3	381.7	355.5	26.16	14.590
4,700.0	4,618.8	4,667.0	4,634.1	17.1	15.8	-145.73	364.9	219.2	389.0	362.5	26.51	14.672
4,750.0	4,667.3	4,714.6	4,681.5	17.4	16.0	-146.24	367.8	221.2	397.3	370.4	26.91	14.764
4,800.0	4,715.8	4,762.1	4,728.9	17.6	16.2	-146.77	370.4	222.9	405.9	378.6	27.32	14.860
4,845.0	4,759.5	4,804.7	4,771.4	17.8	16.3	-147.27	372.4	224.3	413.8	386.2	27.68	14.954
4,853.6	4,767.8	4,812.8	4,779.6	17.8	16.3	-147.37	372.7	224.5	415.4	387.6	27.74	14.972
4,900.0	4,812.9	4,856.7	4,823.4	18.0	16.5	-147.97	374.5	225.7	423.5	395.4	28.11	15.066
4,940.0	4,851.9	4,894.5	4,861.2	18.2	16.6	-148.46	375.7	226.6	430.2	401.7	28.43	15.129

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #707H - OWB - PWP1														Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8417-r.5 MWD+IFR1+MS						Rule Assigned:				Offset Well Error:	3.0 usft		
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
5,000.0	4,910.7	4,951.3	4,917.9	18.5	16.8	-149.14	377.3	227.7	439.6	410.7	28.90	15.208			
5,035.0	4,945.1	4,984.4	4,951.1	18.7	16.9	-149.52	378.0	228.1	444.7	415.6	29.17	15.247			
5,100.0	5,009.2	5,046.0	5,012.6	19.0	17.0	-150.17	378.8	228.7	453.7	424.0	29.64	15.307			
5,130.0	5,038.8	5,074.5	5,041.1	19.1	17.1	-150.46	379.0	228.8	457.5	427.7	29.84	15.330			
5,200.0	5,108.2	5,142.2	5,108.9	19.4	17.2	-151.08	379.1	228.9	465.7	435.4	30.29	15.374			
5,225.0	5,133.0	5,167.1	5,133.7	19.5	17.2	-151.28	379.1	228.9	468.3	437.9	30.44	15.384			
5,300.0	5,207.6	5,241.7	5,208.3	19.9	17.2	-151.79	379.1	228.9	475.0	444.2	30.87	15.387			
5,320.0	5,227.5	5,261.6	5,228.2	19.9	17.2	-151.90	379.1	228.9	476.5	445.6	30.98	15.383			
5,400.0	5,307.3	5,341.4	5,308.0	20.2	17.3	-152.25	379.1	228.9	481.3	449.9	31.38	15.339			
5,415.0	5,322.3	5,356.4	5,323.0	20.3	17.3	-152.30	379.1	228.9	482.0	450.6	31.44	15.329			
5,500.0	5,407.3	5,441.3	5,408.0	20.6	17.3	-152.48	379.1	228.9	484.5	452.7	31.79	15.242			
5,510.0	5,417.3	5,451.3	5,418.0	20.6	17.3	-152.49	379.1	228.9	484.7	452.9	31.81	15.236			
5,553.7	5,461.0	5,495.1	5,461.7	20.6	17.3	-91.02	379.1	228.9	485.0	453.1	31.90	15.203			
5,600.0	5,507.3	5,541.3	5,508.0	20.7	17.4	-91.02	379.1	228.9	485.0	453.0	31.94	15.183			
5,605.0	5,512.3	5,546.3	5,513.0	20.7	17.4	-91.02	379.1	228.9	485.0	453.0	31.95	15.181			
5,700.0	5,607.3	5,641.3	5,608.0	20.7	17.4	-91.02	379.1	228.9	485.0	452.9	32.06	15.129			
5,795.0	5,702.3	5,736.3	5,703.0	20.7	17.5	-91.02	379.1	228.9	485.0	452.8	32.17	15.078			
5,800.0	5,707.3	5,741.3	5,708.0	20.7	17.5	-91.02	379.1	228.9	485.0	452.8	32.17	15.075			
5,890.0	5,797.3	5,831.3	5,798.0	20.8	17.5	-91.02	379.1	228.9	485.0	452.7	32.27	15.026			
5,900.0	5,807.3	5,841.3	5,808.0	20.8	17.5	-91.02	379.1	228.9	485.0	452.7	32.29	15.021			
5,985.0	5,892.3	5,926.3	5,893.0	20.8	17.6	-91.02	379.1	228.9	485.0	452.6	32.38	14.975			
6,000.0	5,907.3	5,941.3	5,908.0	20.8	17.6	-91.02	379.1	228.9	485.0	452.6	32.40	14.967			
6,080.0	5,987.3	6,021.3	5,988.0	20.9	17.6	-91.02	379.1	228.9	485.0	452.5	32.50	14.924			
6,100.0	6,007.3	6,041.3	6,008.0	20.9	17.6	-91.02	379.1	228.9	485.0	452.5	32.52	14.914			
6,175.0	6,082.3	6,116.3	6,083.0	20.9	17.7	-91.02	379.1	228.9	485.0	452.4	32.61	14.874			
6,200.0	6,107.3	6,141.3	6,108.0	20.9	17.7	-91.02	379.1	228.9	485.0	452.3	32.64	14.861			
6,270.0	6,177.3	6,211.3	6,178.0	20.9	17.7	-91.02	379.1	228.9	485.0	452.3	32.72	14.823			
6,300.0	6,207.3	6,241.3	6,208.0	21.0	17.8	-91.02	379.1	228.9	485.0	452.2	32.75	14.807			
6,365.0	6,272.3	6,306.3	6,273.0	21.0	17.8	-91.02	379.1	228.9	485.0	452.1	32.83	14.773			
6,400.0	6,307.3	6,341.3	6,308.0	21.0	17.8	-91.02	379.1	228.9	485.0	452.1	32.87	14.755			
6,460.0	6,367.3	6,401.3	6,368.0	21.0	17.8	-91.02	379.1	228.9	485.0	452.0	32.94	14.723			
6,500.0	6,407.3	6,441.3	6,408.0	21.0	17.9	-91.02	379.1	228.9	485.0	452.0	32.99	14.702			
6,555.0	6,462.3	6,496.3	6,463.0	21.1	17.9	-91.02	379.1	228.9	485.0	451.9	33.05	14.673			
6,600.0	6,507.3	6,541.3	6,508.0	21.1	17.9	-91.02	379.1	228.9	485.0	451.9	33.11	14.650			
6,650.0	6,557.3	6,591.3	6,558.0	21.1	18.0	-91.02	379.1	228.9	485.0	451.8	33.16	14.624			
6,700.0	6,607.3	6,641.3	6,608.0	21.1	18.0	-91.02	379.1	228.9	485.0	451.8	33.22	14.597			
6,745.0	6,652.3	6,686.3	6,653.0	21.1	18.0	-91.02	379.1	228.9	485.0	451.7	33.28	14.574			
6,800.0	6,707.3	6,741.3	6,708.0	21.2	18.0	-91.02	379.1	228.9	485.0	451.6	33.34	14.546			
6,840.0	6,747.3	6,781.3	6,748.0	21.2	18.1	-91.02	379.1	228.9	485.0	451.6	33.39	14.525			
6,900.0	6,807.3	6,841.3	6,808.0	21.2	18.1	-91.02	379.1	228.9	485.0	451.5	33.46	14.494			
6,935.0	6,842.3	6,876.3	6,843.0	21.2	18.1	-91.02	379.1	228.9	485.0	451.5	33.50	14.476			
7,000.0	6,907.3	6,941.3	6,908.0	21.3	18.2	-91.02	379.1	228.9	485.0	451.4	33.58	14.442			
7,030.0	6,937.3	6,971.3	6,938.0	21.3	18.2	-91.02	379.1	228.9	485.0	451.4	33.62	14.427			
7,100.0	7,007.3	7,041.3	7,008.0	21.3	18.2	-91.02	379.1	228.9	485.0	451.3	33.70	14.391			
7,125.0	7,032.3	7,066.3	7,033.0	21.3	18.2	-91.02	379.1	228.9	485.0	451.2	33.73	14.378			
7,200.0	7,107.3	7,141.3	7,108.0	21.3	18.3	-91.02	379.1	228.9	485.0	451.2	33.82	14.340			
7,220.0	7,127.3	7,161.3	7,128.0	21.4	18.3	-91.02	379.1	228.9	485.0	451.1	33.84	14.330			
7,300.0	7,207.3	7,241.3	7,208.0	21.4	18.3	-91.02	379.1	228.9	485.0	451.0	33.94	14.289			
7,315.0	7,222.3	7,256.3	7,223.0	21.4	18.3	-91.02	379.1	228.9	485.0	451.0	33.96	14.282			
7,400.0	7,307.3	7,341.3	7,308.0	21.4	18.4	-91.02	379.1	228.9	485.0	450.9	34.06	14.239			
7,410.0	7,317.3	7,351.3	7,318.0	21.4	18.4	-91.02	379.1	228.9	485.0	450.9	34.07	14.234			

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

ConocoPhillips

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Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #707H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8417-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum	Separation	Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation Factor			
7,500.0	7,407.3	7,441.3	7,408.0	21.5	18.4	-91.02	379.1	228.9	485.0	450.8	34.18	14.188		
7,505.0	7,412.3	7,446.3	7,413.0	21.5	18.4	-91.02	379.1	228.9	485.0	450.8	34.19	14.186		
7,600.0	7,507.3	7,541.3	7,508.0	21.5	18.5	-91.02	379.1	228.9	485.0	450.7	34.30	14.138		
7,695.0	7,602.3	7,636.3	7,603.0	21.6	18.6	-91.02	379.1	228.9	485.0	450.6	34.42	14.091		
7,700.0	7,607.3	7,641.3	7,608.0	21.6	18.6	-91.02	379.1	228.9	485.0	450.6	34.42	14.088		
7,790.0	7,697.3	7,731.3	7,698.0	21.6	18.6	-91.02	379.1	228.9	485.0	450.4	34.53	14.043		
7,800.0	7,707.3	7,741.3	7,708.0	21.6	18.6	-91.02	379.1	228.9	485.0	450.4	34.55	14.038		
7,885.0	7,792.3	7,826.3	7,793.0	21.7	18.7	-91.02	379.1	228.9	485.0	450.3	34.65	13.996		
7,900.0	7,807.3	7,841.3	7,808.0	21.7	18.7	-91.02	379.1	228.9	485.0	450.3	34.67	13.989		
7,980.0	7,887.3	7,921.3	7,888.0	21.7	18.7	-91.02	379.1	228.9	485.0	450.2	34.77	13.950		
8,000.0	7,907.3	7,941.3	7,908.0	21.7	18.7	-91.02	379.1	228.9	485.0	450.2	34.79	13.940		
8,075.0	7,982.3	8,016.3	7,983.0	21.8	18.8	-91.02	379.1	228.9	485.0	450.1	34.88	13.903		
8,100.0	8,007.3	8,041.3	8,008.0	21.8	18.8	-91.02	379.1	228.9	485.0	450.1	34.91	13.891		
8,170.0	8,077.3	8,111.3	8,078.0	21.8	18.8	-91.02	379.1	228.9	485.0	450.0	35.00	13.857		
8,200.0	8,107.3	8,141.3	8,108.0	21.8	18.9	-91.02	379.1	228.9	485.0	449.9	35.04	13.842		
8,265.0	8,172.3	8,206.3	8,173.0	21.8	18.9	-91.02	379.1	228.9	485.0	449.9	35.12	13.810		
8,300.0	8,207.3	8,241.3	8,208.0	21.9	18.9	-91.02	379.1	228.9	485.0	449.8	35.16	13.793		
8,360.0	8,267.3	8,301.3	8,268.0	21.9	19.0	-91.02	379.1	228.9	485.0	449.7	35.23	13.764		
8,400.0	8,307.3	8,341.3	8,308.0	21.9	19.0	-91.02	379.1	228.9	485.0	449.7	35.28	13.745		
8,455.0	8,362.3	8,396.3	8,363.0	21.9	19.0	-91.02	379.1	228.9	485.0	449.6	35.35	13.720		
8,455.4	8,362.7	8,396.8	8,363.4	21.9	19.0	-91.02	379.1	228.9	485.0	449.6	35.35	13.720		
8,485.8	8,393.0	8,426.9	8,393.5	21.9	19.0	-91.03	379.0	228.9	485.0	449.6	35.37	13.712		
8,500.0	8,407.3	8,440.8	8,407.4	21.9	19.0	88.44	378.6	228.9	485.0	449.6	35.37	13.710		
8,550.0	8,457.1	8,489.6	8,456.1	22.0	19.1	88.35	374.6	228.9	485.0	449.6	35.39	13.705		
8,600.0	8,506.5	8,538.4	8,504.1	22.0	19.1	88.28	366.4	228.8	485.0	449.6	35.39	13.704		
8,645.0	8,550.2	8,582.3	8,546.6	22.0	19.2	88.22	355.5	228.7	485.0	449.7	35.39	13.706		
8,650.0	8,555.0	8,587.2	8,551.3	22.0	19.2	88.21	354.1	228.7	485.0	449.7	35.39	13.707		
8,700.0	8,602.3	8,635.8	8,597.2	22.0	19.2	88.16	338.0	228.5	485.1	449.7	35.37	13.713		
8,740.0	8,639.0	8,674.8	8,632.8	22.0	19.3	88.13	322.3	228.4	485.1	449.7	35.35	13.721		
8,750.0	8,648.0	8,684.5	8,641.6	22.1	19.3	88.13	318.0	228.4	485.1	449.7	35.35	13.723		
8,800.0	8,691.7	8,733.2	8,684.0	22.1	19.3	88.10	294.3	228.1	485.1	449.8	35.32	13.735		
8,835.0	8,721.0	8,767.2	8,712.5	22.1	19.4	88.09	275.6	228.0	485.1	449.8	35.29	13.744		
8,850.0	8,733.2	8,781.8	8,724.3	22.1	19.4	88.09	267.1	227.9	485.1	449.8	35.28	13.748		
8,900.0	8,772.1	8,830.4	8,762.2	22.1	19.4	88.10	236.6	227.6	485.1	449.8	35.25	13.761		
8,930.0	8,794.1	8,859.6	8,783.6	22.2	19.5	88.11	216.8	227.5	485.1	449.8	35.23	13.768		
8,950.0	8,808.1	8,879.1	8,797.3	22.2	19.5	88.12	203.0	227.3	485.1	449.8	35.22	13.773		
9,000.0	8,841.0	8,927.7	8,829.5	22.2	19.5	88.15	166.5	227.0	485.1	449.9	35.19	13.782		
9,025.0	8,856.1	8,952.1	8,844.4	22.2	19.6	88.17	147.3	226.8	485.1	449.9	35.18	13.786		
9,050.0	8,870.4	8,976.4	8,858.5	22.2	19.6	88.20	127.4	226.7	485.0	449.9	35.18	13.789		
9,100.0	8,896.2	9,025.1	8,884.0	22.3	19.6	88.26	85.9	226.3	485.0	449.9	35.17	13.790		
9,120.0	8,905.5	9,044.6	8,893.3	22.3	19.7	88.29	68.8	226.1	485.0	449.9	35.17	13.789		
9,150.0	8,918.2	9,073.9	8,906.0	22.3	19.7	88.33	42.4	225.9	485.0	449.8	35.18	13.786		
9,200.0	8,936.1	9,122.7	8,924.2	22.4	19.7	88.42	-2.9	225.5	485.0	449.8	35.21	13.775		
9,215.0	8,940.7	9,137.4	8,928.9	22.4	19.7	88.45	-16.7	225.4	485.0	449.8	35.22	13.770		
9,250.0	8,950.0	9,171.6	8,938.5	22.4	19.8	88.52	-49.6	225.1	485.0	449.7	35.25	13.756		
9,300.0	8,959.6	9,220.6	8,948.8	22.5	19.8	88.63	-97.4	224.7	485.0	449.6	35.32	13.730		
9,310.0	8,961.0	9,230.4	8,950.4	22.5	19.8	88.65	-107.1	224.6	484.9	449.6	35.34	13.724		
9,350.0	8,964.9	9,269.6	8,955.0	22.5	19.8	88.75	-146.1	224.2	484.9	449.5	35.41	13.696		
9,385.2	8,966.0	9,304.2	8,956.8	22.6	19.9	88.84	-180.6	223.9	484.9	449.4	35.48	13.667		
9,397.7	8,966.0	9,316.5	8,957.0	22.6	19.9	88.85	-192.9	223.8	484.9	449.4	35.51	13.657		
9,400.0	8,966.0	9,318.8	8,957.0	22.6	19.9	88.85	-195.2	223.8	484.9	449.4	35.51	13.655		

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

ConocoPhillips

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Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #707H - OWB - PWP1													Offset Site Error: 0.0 usft	
Survey Program: Reference		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8417-r.5 MWD+IFR1+MS						Rule Assigned:		Offset Well Error: 3.0 usft				
Offset		Semi Major Axis		Offset Wellbore Centre		Distance		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	
9,405.0	8,966.0	9,323.8	8,957.0	22.6	19.9	88.85	-200.2	223.8	484.9	449.4	35.53	13.649		
9,500.0	8,966.1	9,418.8	8,957.1	22.7	19.9	88.85	-295.2	222.9	484.9	449.1	35.83	13.532		
9,595.0	8,966.2	9,513.8	8,957.2	22.9	20.0	88.86	-390.2	222.1	484.9	448.7	36.20	13.396		
9,600.0	8,966.2	9,518.8	8,957.2	22.9	20.0	88.86	-395.2	222.0	484.9	448.7	36.22	13.388		
9,690.0	8,966.3	9,608.8	8,957.3	23.0	20.1	88.86	-485.1	221.2	484.9	448.3	36.62	13.242		
9,700.0	8,966.3	9,618.8	8,957.3	23.0	20.1	88.86	-495.1	221.1	484.9	448.2	36.67	13.225		
9,785.0	8,966.4	9,703.8	8,957.4	23.2	20.2	88.86	-580.1	220.4	484.9	447.8	37.09	13.073		
9,800.0	8,966.4	9,718.8	8,957.5	23.2	20.2	88.86	-595.1	220.3	484.9	447.7	37.17	13.045		
9,880.0	8,966.5	9,798.8	8,957.6	23.4	20.3	88.86	-675.1	219.5	484.9	447.3	37.62	12.891		
9,900.0	8,966.5	9,818.8	8,957.6	23.4	20.3	88.86	-695.1	219.4	484.9	447.2	37.73	12.851		
9,975.0	8,966.6	9,893.8	8,957.7	23.6	20.4	88.86	-770.1	218.7	484.9	446.7	38.19	12.697		
10,000.0	8,966.6	9,918.8	8,957.7	23.7	20.4	88.86	-795.1	218.5	484.9	446.6	38.35	12.645		
10,070.0	8,966.7	9,988.8	8,957.8	23.8	20.5	88.86	-865.1	217.9	484.9	446.1	38.81	12.494		
10,100.0	8,966.7	10,018.8	8,957.8	23.9	20.6	88.86	-895.1	217.6	484.9	445.9	39.01	12.429		
10,165.0	8,966.8	10,083.8	8,957.9	24.1	20.7	88.86	-960.1	217.0	484.9	445.4	39.47	12.284		
10,200.0	8,966.8	10,118.8	8,957.9	24.2	20.7	88.87	-995.1	216.7	484.9	445.2	39.73	12.206		
10,260.0	8,966.9	10,178.8	8,958.0	24.3	20.8	88.87	-1,055.1	216.2	484.9	444.7	40.18	12.069		
10,300.0	8,966.9	10,218.8	8,958.0	24.4	20.9	88.87	-1,095.1	215.8	484.9	444.4	40.49	11.978		
10,355.0	8,967.0	10,273.8	8,958.1	24.6	21.0	88.87	-1,150.1	215.3	484.9	444.0	40.92	11.849		
10,400.0	8,967.0	10,318.8	8,958.1	24.7	21.1	88.87	-1,195.1	214.9	484.9	443.6	41.29	11.745		
10,450.0	8,967.1	10,368.8	8,958.2	24.9	21.2	88.87	-1,245.1	214.5	484.9	443.2	41.70	11.627		
10,500.0	8,967.1	10,418.8	8,958.3	25.1	21.3	88.87	-1,295.1	214.1	484.9	442.8	42.13	11.511		
10,545.0	8,967.2	10,463.8	8,958.3	25.2	21.5	88.87	-1,340.1	213.7	484.9	442.4	42.52	11.404		
10,600.0	8,967.2	10,518.8	8,958.4	25.4	21.6	88.87	-1,395.1	213.2	484.9	441.9	43.01	11.276		
10,640.0	8,967.3	10,558.8	8,958.4	25.5	21.7	88.87	-1,435.1	212.8	484.9	441.6	43.37	11.181		
10,700.0	8,967.3	10,618.8	8,958.5	25.7	21.9	88.87	-1,495.1	212.3	484.9	441.0	43.92	11.041		
10,735.0	8,967.4	10,653.8	8,958.5	25.9	22.0	88.87	-1,530.1	212.0	484.9	440.7	44.25	10.959		
10,800.0	8,967.4	10,718.8	8,958.6	26.1	22.2	88.87	-1,595.1	211.4	484.9	440.1	44.87	10.808		
10,830.0	8,967.5	10,748.8	8,958.6	26.2	22.3	88.88	-1,625.1	211.1	484.9	439.8	45.16	10.738		
10,900.0	8,967.5	10,818.8	8,958.7	26.5	22.6	88.88	-1,695.1	210.5	484.9	439.1	45.85	10.577		
10,925.0	8,967.6	10,843.8	8,958.7	26.6	22.7	88.88	-1,720.1	210.3	484.9	438.8	46.10	10.520		
11,000.0	8,967.6	10,918.8	8,958.8	26.9	22.9	88.88	-1,795.1	209.6	484.9	438.1	46.85	10.350		
11,020.0	8,967.6	10,938.8	8,958.9	27.0	23.0	88.88	-1,815.1	209.4	484.9	437.9	47.06	10.304		
11,100.0	8,967.7	11,018.8	8,958.9	27.3	23.3	88.88	-1,895.1	208.7	484.9	437.0	47.89	10.126		
11,115.0	8,967.7	11,033.8	8,959.0	27.4	23.4	88.88	-1,910.1	208.6	484.9	436.9	48.05	10.093		
11,200.0	8,967.8	11,118.8	8,959.1	27.7	23.8	88.88	-1,995.1	207.8	484.9	436.0	48.95	9.907		
11,210.0	8,967.8	11,128.8	8,959.1	27.8	23.8	88.88	-2,005.1	207.8	484.9	435.9	49.06	9.885		
11,300.0	8,967.9	11,218.8	8,959.2	28.2	24.2	88.88	-2,095.1	207.0	484.9	434.9	50.03	9.692		
11,305.0	8,967.9	11,223.8	8,959.2	28.2	24.3	88.88	-2,100.1	206.9	484.9	434.8	50.09	9.682		
11,400.0	8,968.0	11,318.8	8,959.3	28.6	24.7	88.88	-2,195.1	206.1	484.9	433.8	51.14	9.482		
11,495.0	8,968.1	11,413.8	8,959.4	29.1	25.2	88.89	-2,290.1	205.2	484.9	432.7	52.21	9.288		
11,500.0	8,968.1	11,418.8	8,959.4	29.1	25.2	88.89	-2,295.1	205.2	484.9	432.7	52.27	9.278		
11,590.0	8,968.2	11,508.8	8,959.5	29.6	25.7	88.89	-2,385.1	204.4	484.9	431.6	53.30	9.098		
11,600.0	8,968.2	11,518.8	8,959.5	29.6	25.8	88.89	-2,395.1	204.3	484.9	431.5	53.42	9.079		
11,685.0	8,968.3	11,603.8	8,959.6	30.0	26.2	88.89	-2,480.1	203.5	484.9	430.5	54.41	8.913		
11,700.0	8,968.3	11,618.8	8,959.6	30.1	26.3	88.89	-2,495.1	203.4	484.9	430.4	54.58	8.885		
11,780.0	8,968.4	11,698.8	8,959.7	30.5	26.8	88.89	-2,575.1	202.7	484.9	429.4	55.53	8.733		
11,800.0	8,968.4	11,718.8	8,959.7	30.6	26.9	88.89	-2,595.1	202.5	484.9	429.2	55.76	8.696		
11,875.0	8,968.5	11,793.8	8,959.8	31.0	27.3	88.89	-2,670.1	201.9	484.9	428.3	56.66	8.558		
11,900.0	8,968.5	11,818.8	8,959.9	31.1	27.4	88.89	-2,695.1	201.6	484.9	428.0	56.96	8.513		
11,970.0	8,968.6	11,888.8	8,959.9	31.5	27.9	88.89	-2,765.1	201.0	484.9	427.1	57.81	8.388		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #707H - OWB - PWP1														Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8417-r.5 MWD+IFR1+MS										Rule Assigned:				Offset Well Error: 3.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre				Distance					
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside				Between	Between	Minimum	Separation	Warning	
Depth	Depth	Depth	Depth			Toolface				Centres	Ellipses	Separation	Factor		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)		+N/-S	+E/-W	(usft)	(usft)	(usft)			
								(usft)	(usft)						
12,000.0	8,968.6	11,918.8	8,960.0	31.7	28.0	88.89		-2,795.1	200.7	484.9	426.8	58.18	8.335		
12,065.0	8,968.7	11,983.8	8,960.0	32.0	28.4	88.89		-2,860.1	200.2	484.9	426.0	58.98	8.223		
12,100.0	8,968.7	12,018.8	8,960.1	32.2	28.6	88.90		-2,895.1	199.9	484.9	425.5	59.41	8.163		
12,160.0	8,968.8	12,078.8	8,960.2	32.5	29.0	88.90		-2,955.0	199.3	484.9	424.8	60.15	8.062		
12,200.0	8,968.8	12,118.8	8,960.2	32.8	29.3	88.90		-2,995.0	199.0	484.9	424.3	60.65	7.996		
12,255.0	8,968.9	12,173.8	8,960.3	33.1	29.6	88.90		-3,050.0	198.5	484.9	423.6	61.34	7.906		
12,300.0	8,968.9	12,218.8	8,960.3	33.3	29.9	88.90		-3,095.0	198.1	484.9	423.0	61.90	7.834		
12,350.0	8,969.0	12,268.8	8,960.4	33.6	30.2	88.90		-3,145.0	197.6	484.9	422.4	62.54	7.755		
12,400.0	8,969.0	12,318.8	8,960.4	33.9	30.5	88.90		-3,195.0	197.2	484.9	421.8	63.17	7.677		
12,445.0	8,969.1	12,363.8	8,960.5	34.2	30.8	88.90		-3,240.0	196.8	484.9	421.2	63.75	7.608		
12,500.0	8,969.1	12,418.8	8,960.5	34.5	31.1	88.90		-3,295.0	196.3	484.9	420.5	64.45	7.525		
12,540.0	8,969.2	12,458.8	8,960.6	34.7	31.4	88.90		-3,335.0	196.0	484.9	420.0	64.96	7.465		
12,600.0	8,969.2	12,518.8	8,960.7	35.1	31.8	88.90		-3,395.0	195.4	484.9	419.2	65.74	7.377		
12,635.0	8,969.3	12,553.8	8,960.7	35.3	32.0	88.90		-3,430.0	195.1	484.9	418.8	66.19	7.326		
12,700.0	8,969.3	12,618.8	8,960.8	35.6	32.4	88.91		-3,495.0	194.5	484.9	417.9	67.04	7.234		
12,730.0	8,969.4	12,648.8	8,960.8	35.8	32.6	88.91		-3,525.0	194.3	484.9	417.5	67.43	7.192		
12,800.0	8,969.4	12,718.8	8,960.9	36.3	33.1	88.91		-3,595.0	193.7	484.9	416.6	68.34	7.096		
12,825.0	8,969.5	12,743.8	8,960.9	36.4	33.3	88.91		-3,620.0	193.4	484.9	416.3	68.67	7.062		
12,900.0	8,969.5	12,818.8	8,961.0	36.9	33.8	88.91		-3,695.0	192.8	484.9	415.3	69.66	6.962		
12,920.0	8,969.6	12,838.8	8,961.0	37.0	33.9	88.91		-3,715.0	192.6	484.9	415.0	69.92	6.935		
13,000.0	8,969.6	12,918.8	8,961.1	37.5	34.4	88.91		-3,795.0	191.9	484.9	414.0	70.98	6.832		
13,015.0	8,969.7	12,933.8	8,961.1	37.6	34.5	88.91		-3,810.0	191.7	484.9	413.8	71.18	6.813		
13,100.0	8,969.7	13,018.8	8,961.2	38.1	35.1	88.91		-3,895.0	191.0	485.0	412.6	72.32	6.706		
13,110.0	8,969.8	13,028.8	8,961.2	38.2	35.2	88.91		-3,905.0	190.9	485.0	412.5	72.45	6.693		
13,200.0	8,969.8	13,118.8	8,961.3	38.7	35.8	88.91		-3,995.0	190.1	485.0	411.3	73.66	6.584		
13,205.0	8,969.8	13,123.8	8,961.3	38.7	35.8	88.91		-4,000.0	190.1	485.0	411.2	73.73	6.578		
13,300.0	8,969.9	13,218.8	8,961.5	39.3	36.5	88.91		-4,095.0	189.2	485.0	409.9	75.01	6.466		
13,395.0	8,970.0	13,313.8	8,961.6	40.0	37.1	88.92		-4,190.0	188.4	485.0	408.7	76.29	6.357		
13,400.0	8,970.0	13,318.8	8,961.6	40.0	37.1	88.92		-4,195.0	188.3	485.0	408.6	76.36	6.351		
13,490.0	8,970.1	13,408.8	8,961.7	40.6	37.8	88.92		-4,285.0	187.5	485.0	407.4	77.58	6.251		
13,500.0	8,970.1	13,418.8	8,961.7	40.6	37.8	88.92		-4,295.0	187.4	485.0	407.2	77.72	6.240		
13,585.0	8,970.2	13,503.8	8,961.8	41.2	38.4	88.92		-4,380.0	186.7	485.0	406.1	78.88	6.148		
13,600.0	8,970.2	13,518.8	8,961.8	41.3	38.5	88.92		-4,395.0	186.6	485.0	405.9	79.09	6.132		
13,680.0	8,970.3	13,598.8	8,961.9	41.8	39.1	88.92		-4,475.0	185.8	485.0	404.8	80.19	6.048		
13,700.0	8,970.3	13,618.8	8,961.9	41.9	39.2	88.92		-4,495.0	185.7	485.0	404.5	80.46	6.027		
13,775.0	8,970.4	13,693.8	8,962.0	42.4	39.8	88.92		-4,570.0	185.0	485.0	403.5	81.49	5.951		
13,800.0	8,970.4	13,718.8	8,962.0	42.6	39.9	88.92		-4,595.0	184.8	485.0	403.1	81.84	5.926		
13,870.0	8,970.5	13,788.8	8,962.1	43.0	40.4	88.92		-4,665.0	184.2	485.0	402.2	82.81	5.857		
13,900.0	8,970.5	13,818.8	8,962.1	43.2	40.6	88.92		-4,695.0	183.9	485.0	401.7	83.22	5.827		
13,965.0	8,970.6	13,883.8	8,962.2	43.7	41.1	88.93		-4,760.0	183.3	485.0	400.8	84.12	5.765		
14,000.0	8,970.6	13,918.8	8,962.3	43.9	41.3	88.93		-4,795.0	183.0	485.0	400.4	84.61	5.732		
14,060.0	8,970.7	13,978.8	8,962.3	44.3	41.8	88.93		-4,855.0	182.5	485.0	399.5	85.44	5.676		
14,100.0	8,970.7	14,018.8	8,962.4	44.6	42.0	88.93		-4,895.0	182.1	485.0	399.0	86.00	5.639		
14,155.0	8,970.8	14,073.8	8,962.4	44.9	42.4	88.93		-4,950.0	181.6	485.0	398.2	86.77	5.589		
14,200.0	8,970.8	14,118.8	8,962.5	45.2	42.7	88.93		-4,995.0	181.2	485.0	397.6	87.40	5.549		
14,250.0	8,970.9	14,168.8	8,962.5	45.6	43.1	88.93		-5,045.0	180.8	485.0	396.9	88.10	5.505		
14,300.0	8,971.0	14,218.8	8,962.6	45.9	43.5	88.93		-5,095.0	180.3	485.0	396.2	88.80	5.461		
14,345.0	8,971.0	14,263.8	8,962.7	46.2	43.8	88.93		-5,140.0	179.9	485.0	395.5	89.43	5.423		
14,400.0	8,971.1	14,318.8	8,962.7	46.6	44.2	88.93		-5,195.0	179.5	485.0	394.8	90.21	5.376		
14,440.0	8,971.1	14,358.8	8,962.8	46.8	44.5	88.93		-5,235.0	179.1	485.0	394.2	90.77	5.343		
14,500.0	8,971.2	14,418.8	8,962.8	47.2	44.9	88.93		-5,295.0	178.6	485.0	393.3	91.62	5.293		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #707H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8417-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,535.0	8,971.2	14,453.8	8,962.9	47.5	45.1	88.93	-5,330.0	178.3	485.0	392.9	92.11	5.265	
14,600.0	8,971.3	14,518.8	8,962.9	47.9	45.6	88.94	-5,395.0	177.7	485.0	391.9	93.03	5.213	
14,630.0	8,971.3	14,548.8	8,963.0	48.1	45.8	88.94	-5,425.0	177.4	485.0	391.5	93.45	5.189	
14,700.0	8,971.4	14,618.8	8,963.1	48.6	46.3	88.94	-5,494.9	176.8	485.0	390.5	94.45	5.135	
14,725.0	8,971.4	14,643.8	8,963.1	48.8	46.5	88.94	-5,519.9	176.6	485.0	390.2	94.80	5.116	
14,800.0	8,971.5	14,718.8	8,963.2	49.3	47.0	88.94	-5,594.9	175.9	485.0	389.1	95.87	5.059	
14,820.0	8,971.5	14,738.8	8,963.2	49.4	47.2	88.94	-5,614.9	175.7	485.0	388.8	96.15	5.044	
14,900.0	8,971.6	14,818.8	8,963.3	50.0	47.8	88.94	-5,694.9	175.0	485.0	387.7	97.29	4.985	
14,915.0	8,971.6	14,833.8	8,963.3	50.1	47.9	88.94	-5,709.9	174.9	485.0	387.5	97.50	4.974	
15,000.0	8,971.7	14,918.8	8,963.4	50.7	48.5	88.94	-5,794.9	174.1	485.0	386.3	98.72	4.913	
15,010.0	8,971.7	14,928.8	8,963.4	50.7	48.6	88.94	-5,804.9	174.0	485.0	386.1	98.86	4.906	
15,100.0	8,971.8	15,018.8	8,963.5	51.4	49.2	88.94	-5,894.9	173.3	485.0	384.8	100.15	4.843	
15,105.0	8,971.8	15,023.8	8,963.5	51.4	49.2	88.94	-5,899.9	173.2	485.0	384.8	100.22	4.839	
15,200.0	8,971.9	15,118.8	8,963.6	52.1	49.9	88.95	-5,994.9	172.4	485.0	383.4	101.58	4.774	
15,295.0	8,972.0	15,213.8	8,963.7	52.7	50.6	88.95	-6,089.9	171.5	485.0	382.0	102.94	4.711	
15,300.0	8,972.0	15,218.8	8,963.7	52.8	50.7	88.95	-6,094.9	171.5	485.0	382.0	103.01	4.708	
15,390.0	8,972.0	15,308.8	8,963.8	53.4	51.3	88.95	-6,184.9	170.7	485.0	380.7	104.31	4.650	
15,400.0	8,972.1	15,318.8	8,963.9	53.5	51.4	88.95	-6,194.9	170.6	485.0	380.5	104.45	4.643	
15,485.0	8,972.1	15,403.8	8,964.0	54.1	52.0	88.95	-6,279.9	169.8	485.0	379.3	105.67	4.589	
15,500.0	8,972.2	15,418.8	8,964.0	54.2	52.1	88.95	-6,294.9	169.7	485.0	379.1	105.89	4.580	
15,580.0	8,972.2	15,498.8	8,964.1	54.7	52.7	88.95	-6,374.9	169.0	485.0	377.9	107.04	4.531	
15,600.0	8,972.3	15,518.8	8,964.1	54.9	52.9	88.95	-6,394.9	168.8	485.0	377.6	107.33	4.518	
15,675.0	8,972.3	15,593.8	8,964.2	55.4	53.4	88.95	-6,469.9	168.2	485.0	376.6	108.42	4.473	
15,700.0	8,972.4	15,618.8	8,964.2	55.6	53.6	88.95	-6,494.9	167.9	485.0	376.2	108.78	4.458	
15,770.0	8,972.4	15,688.8	8,964.3	56.1	54.1	88.95	-6,564.9	167.3	485.0	375.2	109.79	4.417	
15,800.0	8,972.5	15,718.8	8,964.3	56.3	54.3	88.95	-6,594.9	167.0	485.0	374.8	110.23	4.400	
15,865.0	8,972.5	15,783.8	8,964.4	56.7	54.8	88.96	-6,659.9	166.5	485.0	373.8	111.17	4.363	
15,900.0	8,972.6	15,818.8	8,964.4	57.0	55.0	88.96	-6,694.9	166.2	485.0	373.3	111.67	4.343	
15,960.0	8,972.6	15,878.8	8,964.5	57.4	55.5	88.96	-6,754.9	165.6	485.0	372.4	112.55	4.309	
16,000.0	8,972.7	15,918.8	8,964.5	57.7	55.8	88.96	-6,794.9	165.3	485.0	371.9	113.13	4.287	
16,055.0	8,972.7	15,973.8	8,964.6	58.1	56.2	88.96	-6,849.9	164.8	485.0	371.1	113.93	4.257	
16,100.0	8,972.8	16,018.8	8,964.7	58.4	56.5	88.96	-6,894.9	164.4	485.0	370.4	114.58	4.233	
16,150.0	8,972.8	16,068.8	8,964.7	58.8	56.9	88.96	-6,944.9	163.9	485.0	369.7	115.31	4.206	
16,200.0	8,972.9	16,118.8	8,964.8	59.1	57.3	88.96	-6,994.9	163.5	485.0	368.9	116.04	4.180	
16,245.0	8,972.9	16,163.8	8,964.8	59.4	57.6	88.96	-7,039.9	163.1	485.0	368.3	116.69	4.156	
16,300.0	8,973.0	16,218.8	8,964.9	59.8	58.0	88.96	-7,094.9	162.6	485.0	367.5	117.49	4.128	
16,340.0	8,973.0	16,258.8	8,964.9	60.1	58.3	88.96	-7,134.9	162.3	485.0	366.9	118.08	4.107	
16,400.0	8,973.1	16,318.8	8,965.0	60.5	58.7	88.96	-7,194.9	161.7	485.0	366.0	118.95	4.077	
16,435.0	8,973.1	16,353.8	8,965.0	60.8	59.0	88.96	-7,229.9	161.4	485.0	365.5	119.46	4.060	
16,500.0	8,973.2	16,418.8	8,965.1	61.3	59.5	88.97	-7,294.9	160.8	485.0	364.6	120.41	4.028	
16,530.0	8,973.2	16,448.8	8,965.1	61.5	59.7	88.97	-7,324.9	160.6	485.0	364.1	120.85	4.013	
16,600.0	8,973.3	16,518.8	8,965.2	62.0	60.2	88.97	-7,394.9	159.9	485.0	363.1	121.87	3.979	
16,625.0	8,973.3	16,543.8	8,965.3	62.1	60.4	88.97	-7,419.9	159.7	485.0	362.7	122.24	3.968	
16,700.0	8,973.4	16,618.8	8,965.3	62.7	60.9	88.97	-7,494.9	159.1	485.0	361.7	123.34	3.932	
16,720.0	8,973.4	16,638.8	8,965.4	62.8	61.1	88.97	-7,514.9	158.9	485.0	361.4	123.63	3.923	
16,800.0	8,973.5	16,718.8	8,965.5	63.4	61.7	88.97	-7,594.9	158.2	485.0	360.2	124.80	3.886	
16,815.0	8,973.5	16,733.8	8,965.5	63.5	61.8	88.97	-7,609.9	158.0	485.0	360.0	125.02	3.879	
16,900.0	8,973.6	16,818.8	8,965.6	64.1	62.4	88.97	-7,694.9	157.3	485.0	358.7	126.27	3.841	
16,910.0	8,973.6	16,828.8	8,965.6	64.2	62.5	88.97	-7,704.9	157.2	485.0	358.6	126.42	3.836	
17,000.0	8,973.7	16,918.8	8,965.7	64.8	63.2	88.97	-7,794.9	156.4	485.0	357.3	127.74	3.797	
17,005.0	8,973.7	16,923.8	8,965.7	64.9	63.2	88.97	-7,799.9	156.4	485.0	357.2	127.81	3.795	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #707H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8417-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		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)			
17,100.0	8,973.8	17,018.8	8,965.8	65.6	63.9	88.98	-7,894.9	155.5	485.0	355.8	129.21	3.754	
17,195.0	8,973.9	17,113.8	8,965.9	66.3	64.6	88.98	-7,989.8	154.7	485.0	354.4	130.61	3.713	
17,200.0	8,973.9	17,118.8	8,965.9	66.3	64.6	88.98	-7,994.8	154.6	485.0	354.3	130.68	3.711	
17,290.0	8,974.0	17,208.8	8,966.0	66.9	65.3	88.98	-8,084.8	153.8	485.0	353.0	132.00	3.674	
17,300.0	8,974.0	17,218.8	8,966.0	67.0	65.4	88.98	-8,094.8	153.7	485.0	352.8	132.15	3.670	
17,385.0	8,974.1	17,303.8	8,966.1	67.6	66.0	88.98	-8,179.8	153.0	485.0	351.6	133.40	3.636	
17,400.0	8,974.1	17,318.8	8,966.1	67.7	66.1	88.98	-8,194.8	152.9	485.0	351.4	133.62	3.630	
17,480.0	8,974.2	17,398.8	8,966.2	68.3	66.7	88.98	-8,274.8	152.1	485.0	350.2	134.80	3.598	
17,500.0	8,974.2	17,418.8	8,966.3	68.5	66.9	88.98	-8,294.8	152.0	485.0	349.9	135.10	3.590	
17,575.0	8,974.2	17,493.8	8,966.3	69.0	67.4	88.98	-8,369.8	151.3	485.0	348.8	136.21	3.561	
17,600.0	8,974.3	17,518.8	8,966.4	69.2	67.6	88.98	-8,394.8	151.1	485.0	348.4	136.58	3.551	
17,670.0	8,974.3	17,588.8	8,966.5	69.7	68.1	88.98	-8,464.8	150.5	485.0	347.4	137.61	3.524	
17,700.0	8,974.4	17,618.8	8,966.5	69.9	68.4	88.99	-8,494.8	150.2	485.0	346.9	138.05	3.513	
17,765.0	8,974.4	17,683.8	8,966.6	70.4	68.8	88.99	-8,559.8	149.6	485.0	346.0	139.01	3.489	
17,800.0	8,974.5	17,718.8	8,966.6	70.7	69.1	88.99	-8,594.8	149.3	485.0	345.5	139.53	3.476	
17,860.0	8,974.5	17,778.8	8,966.7	71.1	69.6	88.99	-8,654.8	148.8	485.0	344.6	140.42	3.454	
17,900.0	8,974.6	17,818.8	8,966.7	71.4	69.9	88.99	-8,694.8	148.4	485.0	344.0	141.01	3.440	
17,955.0	8,974.6	17,873.8	8,966.8	71.8	70.3	88.99	-8,749.8	147.9	485.0	343.2	141.82	3.420	
18,000.0	8,974.7	17,918.8	8,966.8	72.1	70.6	88.99	-8,794.8	147.5	485.0	342.5	142.49	3.404	
18,050.0	8,974.7	17,968.8	8,966.9	72.5	71.0	88.99	-8,844.8	147.1	485.0	341.8	143.23	3.386	
18,100.0	8,974.8	18,018.8	8,966.9	72.8	71.3	88.99	-8,894.8	146.6	485.0	341.0	143.97	3.369	
18,145.0	8,974.8	18,063.8	8,967.0	73.2	71.7	88.99	-8,939.8	146.2	485.0	340.4	144.64	3.353	
18,200.0	8,974.9	18,118.8	8,967.1	73.6	72.1	88.99	-8,994.8	145.8	485.0	339.6	145.45	3.334	
18,240.0	8,974.9	18,158.8	8,967.1	73.9	72.4	88.99	-9,034.8	145.4	485.0	339.0	146.05	3.321	
18,300.0	8,975.0	18,218.8	8,967.2	74.3	72.8	88.99	-9,094.8	144.9	485.0	338.1	146.94	3.301	
18,335.0	8,975.0	18,253.8	8,967.2	74.6	73.1	89.00	-9,129.8	144.6	485.0	337.6	147.46	3.289	
18,400.0	8,975.1	18,318.8	8,967.3	75.0	73.6	89.00	-9,194.8	144.0	485.0	336.6	148.42	3.268	
18,430.0	8,975.1	18,348.8	8,967.3	75.3	73.8	89.00	-9,224.8	143.7	485.0	336.1	148.87	3.258	
18,500.0	8,975.2	18,418.8	8,967.4	75.8	74.3	89.00	-9,294.8	143.1	485.0	335.1	149.91	3.235	
18,525.0	8,975.2	18,443.8	8,967.4	76.0	74.5	89.00	-9,319.8	142.9	485.0	334.7	150.28	3.227	
18,600.0	8,975.3	18,518.8	8,967.5	76.5	75.1	89.00	-9,394.8	142.2	485.0	333.6	151.39	3.204	
18,620.0	8,975.3	18,538.8	8,967.5	76.7	75.2	89.00	-9,414.8	142.0	485.0	333.3	151.69	3.197	
18,700.0	8,975.4	18,618.8	8,967.6	77.2	75.8	89.00	-9,494.8	141.3	485.0	332.1	152.88	3.173	
18,715.0	8,975.4	18,633.8	8,967.6	77.4	75.9	89.00	-9,509.8	141.2	485.0	331.9	153.10	3.168	
18,800.0	8,975.5	18,718.8	8,967.7	78.0	76.6	89.00	-9,594.8	140.4	485.0	330.6	154.37	3.142	
18,810.0	8,975.5	18,728.8	8,967.8	78.0	76.7	89.00	-9,604.8	140.3	485.0	330.5	154.51	3.139	
18,900.0	8,975.6	18,818.8	8,967.9	78.7	77.3	89.00	-9,694.8	139.5	485.0	329.2	155.85	3.112	
18,905.0	8,975.6	18,823.8	8,967.9	78.7	77.4	89.00	-9,699.8	139.5	485.0	329.1	155.93	3.111	
19,000.0	8,975.7	18,918.8	8,968.0	79.4	78.1	89.01	-9,794.8	138.7	485.0	327.7	157.34	3.083	
19,095.0	8,975.8	19,013.8	8,968.1	80.1	78.8	89.01	-9,889.8	137.8	485.0	326.3	158.76	3.055	
19,100.0	8,975.8	19,018.8	8,968.1	80.2	78.8	89.01	-9,894.8	137.8	485.0	326.2	158.83	3.054	
19,190.0	8,975.9	19,108.8	8,968.2	80.8	79.5	89.01	-9,984.8	137.0	485.0	324.8	160.17	3.028	
19,200.0	8,975.9	19,118.8	8,968.2	80.9	79.6	89.01	-9,994.8	136.9	485.0	324.7	160.32	3.025	
19,285.0	8,976.0	19,203.8	8,968.3	81.5	80.2	89.01	-10,079.8	136.1	485.0	323.4	161.59	3.002	
19,300.0	8,976.0	19,218.8	8,968.3	81.7	80.3	89.01	-10,094.8	136.0	485.0	323.2	161.81	2.997	
19,380.0	8,976.1	19,298.8	8,968.4	82.3	80.9	89.01	-10,174.8	135.3	485.0	322.0	163.01	2.975	
19,400.0	8,976.1	19,318.8	8,968.4	82.4	81.1	89.01	-10,194.8	135.1	485.0	321.7	163.31	2.970	
19,475.0	8,976.2	19,393.8	8,968.5	83.0	81.6	89.01	-10,269.8	134.4	485.0	320.6	164.42	2.950	
19,500.0	8,976.2	19,418.8	8,968.5	83.1	81.8	89.01	-10,294.8	134.2	485.0	320.2	164.80	2.943	
19,570.0	8,976.3	19,488.8	8,968.6	83.7	82.4	89.02	-10,364.8	133.6	485.0	319.2	165.84	2.925	
19,600.0	8,976.3	19,518.8	8,968.7	83.9	82.6	89.02	-10,394.8	133.3	485.0	318.7	166.29	2.917	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #707H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8417-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
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
19,665.0	8,976.4	19,583.8	8,968.7	84.4	83.1	89.02	-10,459.7	132.8	485.0	317.8	167.26	2.900	
19,700.0	8,976.4	19,618.8	8,968.8	84.6	83.3	89.02	-10,494.7	132.5	485.0	317.2	167.78	2.891	
19,760.0	8,976.4	19,678.8	8,968.8	85.1	83.8	89.02	-10,554.7	131.9	485.0	316.3	168.68	2.875	
19,800.0	8,976.5	19,718.8	8,968.9	85.4	84.1	89.02	-10,594.7	131.6	485.0	315.7	169.28	2.865	
19,855.0	8,976.5	19,773.8	8,968.9	85.8	84.5	89.02	-10,649.7	131.1	485.0	314.9	170.10	2.851	
19,900.0	8,976.6	19,818.8	8,969.0	86.1	84.8	89.02	-10,694.7	130.7	485.0	314.3	170.77	2.840	
19,950.0	8,976.6	19,868.8	8,969.1	86.5	85.2	89.02	-10,744.7	130.2	485.0	313.5	171.52	2.828	
20,000.0	8,976.7	19,918.8	8,969.1	86.8	85.6	89.02	-10,794.7	129.8	485.0	312.8	172.27	2.816	
20,045.0	8,976.7	19,963.8	8,969.2	87.2	85.9	89.02	-10,839.7	129.4	485.0	312.1	172.94	2.805	
20,100.0	8,976.8	20,018.8	8,969.2	87.6	86.3	89.02	-10,894.7	128.9	485.0	311.3	173.77	2.791	
20,140.0	8,976.8	20,058.8	8,969.3	87.9	86.6	89.02	-10,934.7	128.6	485.0	310.7	174.36	2.782	
20,200.0	8,976.9	20,118.8	8,969.3	88.3	87.1	89.03	-10,994.7	128.0	485.0	309.8	175.26	2.767	
20,235.0	8,976.9	20,153.8	8,969.4	88.6	87.4	89.03	-11,029.7	127.7	485.0	309.2	175.79	2.759	
20,300.0	8,977.0	20,218.8	8,969.5	89.1	87.8	89.03	-11,094.7	127.1	485.0	308.3	176.76	2.744	
20,330.0	8,977.0	20,248.8	8,969.5	89.3	88.1	89.03	-11,124.7	126.9	485.0	307.8	177.21	2.737	
20,400.0	8,977.1	20,318.8	8,969.6	89.8	88.6	89.03	-11,194.7	126.2	485.0	306.8	178.26	2.721	
20,425.0	8,977.1	20,343.8	8,969.6	90.0	88.8	89.03	-11,219.7	126.0	485.0	306.4	178.63	2.715	
20,500.0	8,977.2	20,418.8	8,969.7	90.6	89.4	89.03	-11,294.7	125.4	485.0	305.3	179.76	2.698	
20,520.0	8,977.2	20,438.8	8,969.7	90.7	89.5	89.03	-11,314.7	125.2	485.0	305.0	180.06	2.694	
20,600.0	8,977.3	20,518.8	8,969.8	91.3	90.1	89.03	-11,394.7	124.5	485.0	303.8	181.25	2.676	
20,615.0	8,977.3	20,533.8	8,969.8	91.4	90.2	89.03	-11,409.7	124.3	485.0	303.6	181.48	2.673	
20,700.0	8,977.4	20,618.8	8,969.9	92.0	90.9	89.03	-11,494.7	123.6	485.0	302.3	182.75	2.654	
20,710.0	8,977.4	20,628.8	8,969.9	92.1	90.9	89.03	-11,504.7	123.5	485.0	302.1	182.90	2.652	
20,800.0	8,977.5	20,718.8	8,970.0	92.8	91.6	89.03	-11,594.7	122.7	485.0	300.8	184.25	2.632	
20,805.0	8,977.5	20,723.8	8,970.0	92.8	91.7	89.03	-11,599.7	122.7	485.0	300.7	184.33	2.631	
20,900.0	8,977.6	20,818.8	8,970.1	93.5	92.4	89.04	-11,694.7	121.8	485.0	299.3	185.75	2.611	
20,995.0	8,977.7	20,913.8	8,970.2	94.2	93.1	89.04	-11,789.7	121.0	485.0	297.9	187.18	2.591	
21,000.0	8,977.7	20,918.8	8,970.3	94.3	93.1	89.04	-11,794.7	120.9	485.0	297.8	187.25	2.590	
21,090.0	8,977.8	21,008.8	8,970.4	94.9	93.8	89.04	-11,884.7	120.1	485.0	296.4	188.60	2.572	
21,100.0	8,977.8	21,018.8	8,970.4	95.0	93.9	89.04	-11,894.7	120.0	485.0	296.3	188.75	2.570	
21,185.0	8,977.9	21,103.8	8,970.5	95.7	94.5	89.04	-11,979.7	119.3	485.0	295.0	190.03	2.552	
21,200.0	8,977.9	21,118.8	8,970.5	95.8	94.6	89.04	-11,994.7	119.1	485.0	294.8	190.26	2.549	
21,280.0	8,978.0	21,198.8	8,970.6	96.4	95.2	89.04	-12,074.7	118.4	485.0	293.6	191.46	2.533	
21,300.0	8,978.0	21,218.8	8,970.6	96.5	95.4	89.04	-12,094.7	118.3	485.0	293.3	191.76	2.529	
21,375.0	8,978.1	21,293.8	8,970.7	97.1	96.0	89.04	-12,169.7	117.6	485.0	292.2	192.88	2.515	
21,400.0	8,978.1	21,318.8	8,970.7	97.3	96.1	89.04	-12,194.7	117.4	485.0	291.8	193.26	2.510	
21,470.0	8,978.2	21,388.8	8,970.8	97.8	96.7	89.05	-12,264.7	116.8	485.0	290.7	194.31	2.496	
21,500.0	8,978.2	21,418.8	8,970.8	98.0	96.9	89.05	-12,294.7	116.5	485.0	290.3	194.76	2.490	
21,565.0	8,978.3	21,483.8	8,970.9	98.5	97.4	89.05	-12,359.7	115.9	485.0	289.3	195.74	2.478	
21,600.0	8,978.3	21,518.8	8,970.9	98.7	97.6	89.05	-12,394.7	115.6	485.0	288.8	196.27	2.471	
21,660.0	8,978.4	21,578.8	8,971.0	99.2	98.1	89.05	-12,454.7	115.1	485.0	287.9	197.17	2.460	
21,700.0	8,978.4	21,618.8	8,971.1	99.5	98.4	89.05	-12,494.7	114.7	485.0	287.3	197.77	2.453	
21,755.0	8,978.5	21,673.8	8,971.1	99.9	98.8	89.05	-12,549.7	114.2	485.0	286.5	198.60	2.442	
21,800.0	8,978.5	21,718.8	8,971.2	100.2	99.2	89.05	-12,594.7	113.8	485.0	285.8	199.27	2.434	
21,850.0	8,978.6	21,768.8	8,971.2	100.6	99.5	89.05	-12,644.7	113.4	485.0	285.0	200.03	2.425	
21,900.0	8,978.6	21,818.8	8,971.3	101.0	99.9	89.05	-12,694.7	112.9	485.0	284.3	200.78	2.416	
21,945.0	8,978.7	21,863.8	8,971.3	101.3	100.3	89.05	-12,739.7	112.5	485.0	283.6	201.45	2.408	
22,000.0	8,978.7	21,918.8	8,971.4	101.7	100.7	89.05	-12,794.7	112.1	485.0	282.8	202.28	2.398	
22,040.0	8,978.7	21,958.8	8,971.4	102.0	101.0	89.05	-12,834.7	111.7	485.1	282.2	202.88	2.391	
22,100.0	8,978.8	22,018.8	8,971.5	102.5	101.4	89.06	-12,894.7	111.2	485.1	281.3	203.79	2.380	
22,135.0	8,978.8	22,053.8	8,971.6	102.7	101.7	89.06	-12,929.7	110.9	485.1	280.7	204.31	2.374	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #707H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8417-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		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	
22,200.0	8,978.9	22,118.8	8,971.6	103.2	102.2	89.06	-12,994.6	110.3	485.1	279.8	205.29	2.363	
22,230.0	8,978.9	22,148.8	8,971.7	103.5	102.4	89.06	-13,024.6	110.0	485.1	279.3	205.74	2.358	
22,300.0	8,979.0	22,218.8	8,971.7	104.0	102.9	89.06	-13,094.6	109.4	485.1	278.3	206.80	2.346	
22,325.0	8,979.0	22,243.8	8,971.8	104.2	103.1	89.06	-13,119.6	109.2	485.1	277.9	207.17	2.341	
22,400.0	8,979.1	22,318.8	8,971.9	104.7	103.7	89.06	-13,194.6	108.5	485.1	276.8	208.30	2.329	
22,420.0	8,979.1	22,338.8	8,971.9	104.9	103.8	89.06	-13,214.6	108.3	485.1	276.4	208.61	2.325	
22,500.0	8,979.2	22,418.8	8,972.0	105.5	104.5	89.06	-13,294.6	107.6	485.1	275.2	209.81	2.312	
22,515.0	8,979.2	22,433.8	8,972.0	105.6	104.6	89.06	-13,309.6	107.5	485.1	275.0	210.04	2.309	
22,600.0	8,979.3	22,518.8	8,972.1	106.2	105.2	89.06	-13,394.6	106.7	485.1	273.7	211.32	2.295	
22,610.0	8,979.3	22,528.8	8,972.1	106.3	105.3	89.06	-13,404.6	106.6	485.1	273.6	211.47	2.294	
22,700.0	8,979.4	22,618.8	8,972.2	107.0	106.0	89.07	-13,494.6	105.8	485.1	272.2	212.82	2.279	
22,705.0	8,979.4	22,623.8	8,972.2	107.0	106.0	89.07	-13,499.6	105.8	485.1	272.2	212.90	2.278	
22,800.0	8,979.5	22,718.8	8,972.3	107.7	106.7	89.07	-13,594.6	105.0	485.1	270.7	214.33	2.263	
22,895.0	8,979.6	22,813.8	8,972.4	108.4	107.4	89.07	-13,689.6	104.1	485.1	269.3	215.76	2.248	
22,900.0	8,979.6	22,818.8	8,972.4	108.5	107.5	89.07	-13,694.6	104.1	485.1	269.2	215.84	2.247	
22,990.0	8,979.7	22,908.8	8,972.5	109.2	108.2	89.07	-13,784.6	103.3	485.1	267.9	217.20	2.233	
23,000.0	8,979.7	22,918.8	8,972.5	109.2	108.2	89.07	-13,794.6	103.2	485.1	267.7	217.35	2.232	
23,085.0	8,979.8	23,003.8	8,972.6	109.9	108.9	89.07	-13,879.6	102.4	485.1	266.4	218.63	2.219	
23,100.0	8,979.8	23,018.8	8,972.7	110.0	109.0	89.07	-13,894.6	102.3	485.1	266.2	218.85	2.216	
23,180.0	8,979.9	23,098.8	8,972.7	110.6	109.6	89.07	-13,974.6	101.6	485.1	265.0	220.06	2.204	
23,200.0	8,979.9	23,118.8	8,972.8	110.7	109.7	89.07	-13,994.6	101.4	485.1	264.7	220.36	2.201	
23,275.0	8,980.0	23,193.8	8,972.9	111.3	110.3	89.07	-14,069.6	100.7	485.1	263.6	221.49	2.190	
23,300.0	8,980.0	23,218.8	8,972.9	111.5	110.5	89.07	-14,094.6	100.5	485.1	263.2	221.87	2.186	
23,370.0	8,980.1	23,288.8	8,973.0	112.0	111.0	89.08	-14,164.6	99.9	485.1	262.1	222.93	2.176	
23,400.0	8,980.1	23,318.8	8,973.0	112.2	111.3	89.08	-14,194.6	99.6	485.1	261.7	223.38	2.171	
23,465.0	8,980.2	23,383.8	8,973.1	112.7	111.8	89.08	-14,259.6	99.1	485.1	260.7	224.36	2.162	
23,500.0	8,980.2	23,418.8	8,973.1	113.0	112.0	89.08	-14,294.6	98.7	485.1	260.2	224.89	2.157	
23,560.0	8,980.3	23,478.8	8,973.2	113.4	112.5	89.08	-14,354.6	98.2	485.1	259.3	225.79	2.148	
23,600.0	8,980.3	23,518.8	8,973.2	113.7	112.8	89.08	-14,394.6	97.9	485.1	258.7	226.40	2.143	
23,655.0	8,980.4	23,573.8	8,973.3	114.1	113.2	89.08	-14,449.6	97.4	485.1	257.8	227.23	2.135	
23,700.0	8,980.4	23,618.8	8,973.3	114.5	113.5	89.08	-14,494.6	97.0	485.1	257.2	227.91	2.128	
23,750.0	8,980.5	23,668.8	8,973.4	114.9	113.9	89.08	-14,544.6	96.5	485.1	256.4	228.66	2.121	
23,800.0	8,980.5	23,718.8	8,973.5	115.2	114.3	89.08	-14,594.6	96.1	485.1	255.7	229.42	2.114	
23,845.0	8,980.6	23,763.8	8,973.5	115.6	114.6	89.08	-14,639.6	95.7	485.1	255.0	230.10	2.108	
23,900.0	8,980.6	23,818.8	8,973.6	116.0	115.0	89.08	-14,694.6	95.2	485.1	254.1	230.93	2.101	
23,940.0	8,980.7	23,858.8	8,973.6	116.3	115.3	89.08	-14,734.6	94.8	485.1	253.5	231.53	2.095	
24,000.0	8,980.7	23,918.8	8,973.7	116.7	115.8	89.09	-14,794.6	94.3	485.1	252.6	232.44	2.087	
24,035.0	8,980.8	23,953.8	8,973.7	117.0	116.1	89.09	-14,829.6	94.0	485.1	252.1	232.97	2.082	
24,100.0	8,980.8	24,018.8	8,973.8	117.5	116.6	89.09	-14,894.6	93.4	485.1	251.1	233.95	2.073	
24,130.0	8,980.9	24,048.8	8,973.8	117.7	116.8	89.09	-14,924.6	93.2	485.1	250.7	234.40	2.069	
24,147.5	8,980.9	24,066.3	8,973.9	117.8	116.9	89.09	-14,942.1	93.0	485.1	250.4	234.67	2.067	
24,200.0	8,980.9	24,118.8	8,973.9	118.2	117.3	89.09	-14,994.6	92.5	485.1	249.6	235.46	2.060	
24,225.0	8,980.9	24,143.8	8,973.9	118.4	117.5	89.09	-15,019.6	92.3	485.1	249.2	235.83	2.057	
24,277.5	8,981.0	24,196.3	8,974.0	118.8	117.9	89.09	-15,072.1	91.9	485.1	248.4	236.63	2.050	
24,278.2	8,981.0	24,196.9	8,974.0	118.8	117.9	89.09	-15,072.7	91.8	485.1	248.4	236.64	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 #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #708H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8403-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum Separation		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)			
0.0	0.0	1.4	1.4	3.0	3.0	-90.95	-1.0	-60.0	60.0				
95.0	95.0	96.4	96.4	3.0	3.0	-90.95	-1.0	-60.0	60.0	54.0	6.04	9.941	
100.0	100.0	101.4	101.4	3.0	3.0	-90.95	-1.0	-60.0	60.0	54.0	6.04	9.932	
190.0	190.0	191.4	191.4	3.1	3.1	-90.95	-1.0	-60.0	60.0	53.8	6.25	9.594	
200.0	200.0	201.4	201.4	3.1	3.1	-90.95	-1.0	-60.0	60.0	53.7	6.29	9.544	
285.0	285.0	286.4	286.4	3.3	3.3	-90.95	-1.0	-60.0	60.0	53.5	6.48	9.254	
300.0	300.0	301.4	301.4	3.3	3.3	-90.95	-1.0	-60.0	60.0	53.5	6.52	9.198	
380.0	380.0	381.4	381.4	3.4	3.4	-90.95	-1.0	-60.0	60.0	53.3	6.70	8.952	
400.0	400.0	401.4	401.4	3.4	3.4	-90.95	-1.0	-60.0	60.0	53.3	6.75	8.888	
475.0	475.0	476.4	476.4	3.5	3.5	-90.95	-1.0	-60.0	60.0	53.1	6.92	8.678	
500.0	500.0	501.4	501.4	3.5	3.5	-90.95	-1.0	-60.0	60.0	53.0	6.97	8.607	
570.0	570.0	571.4	571.4	3.6	3.6	-90.95	-1.0	-60.0	60.0	52.9	7.12	8.428	
600.0	600.0	601.4	601.4	3.6	3.6	-90.95	-1.0	-60.0	60.0	52.8	7.19	8.351	
665.0	665.0	666.4	666.4	3.7	3.7	-90.95	-1.0	-60.0	60.0	52.7	7.32	8.199	
700.0	700.0	701.4	701.4	3.8	3.8	-90.95	-1.0	-60.0	60.0	52.6	7.39	8.116	
760.0	760.0	761.4	761.4	3.8	3.8	-90.95	-1.0	-60.0	60.0	52.5	7.51	7.987	
800.0	800.0	801.4	801.4	3.9	3.9	-90.95	-1.0	-60.0	60.0	52.4	7.60	7.901	
855.0	855.0	856.4	856.4	4.0	4.0	-90.95	-1.0	-60.0	60.0	52.3	7.70	7.791	
900.0	900.0	901.4	901.4	4.0	4.0	-90.95	-1.0	-60.0	60.0	52.2	7.79	7.701	
950.0	950.0	951.4	951.4	4.1	4.1	-90.95	-1.0	-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	-90.95	-1.0	-60.0	60.0	52.0	7.98	7.516	
1,045.0	1,045.0	1,046.4	1,046.4	4.2	4.2	-90.95	-1.0	-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	-90.95	-1.0	-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	-90.95	-1.0	-60.0	60.0	51.8	8.24	7.279	
1,200.0	1,200.0	1,201.4	1,201.4	4.4	4.4	-90.95	-1.0	-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	-90.95	-1.0	-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	-90.95	-1.0	-60.0	60.0	51.5	8.53	7.032	
1,330.0	1,330.0	1,331.4	1,331.4	4.5	4.5	-90.95	-1.0	-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	-90.95	-1.0	-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	-90.95	-1.0	-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	-90.95	-1.0	-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	-90.95	-1.0	-60.0	60.0	51.1	8.88	6.757 ES	
1,520.0	1,520.0	1,521.2	1,521.2	4.7	4.8	-152.41	-0.9	-60.0	60.1	51.2	8.94	6.727	
1,600.0	1,600.0	1,600.0	1,600.0	4.8	4.9	-151.72	0.5	-60.8	62.4	53.2	9.15	6.813	
1,615.0	1,615.0	1,615.2	1,615.2	4.9	4.9	-151.50	1.0	-61.1	63.1	53.9	9.22	6.846	
1,700.0	1,699.8	1,699.0	1,698.9	5.1	5.2	-149.89	5.1	-63.2	69.4	59.8	9.59	7.238	
1,710.0	1,709.8	1,708.9	1,708.7	5.1	5.2	-149.67	5.7	-63.6	70.4	60.8	9.64	7.305	
1,800.0	1,799.5	1,797.0	1,796.4	5.3	5.4	-147.56	12.6	-67.2	81.3	71.2	10.04	8.096	
1,805.0	1,804.4	1,801.9	1,801.3	5.3	5.4	-147.44	13.1	-67.4	82.0	71.9	10.06	8.149	
1,900.0	1,898.7	1,893.9	1,892.7	5.6	5.7	-145.23	22.9	-72.6	97.9	87.4	10.49	9.329	
1,995.0	1,992.5	1,986.1	1,983.9	5.9	5.9	-143.50	34.8	-78.9	117.7	106.9	10.86	10.835	
2,000.0	1,997.5	1,991.0	1,988.7	5.9	5.9	-143.44	35.5	-79.2	118.8	108.0	10.89	10.917	
2,090.0	2,085.8	2,078.4	2,075.2	6.2	6.1	-142.89	46.9	-85.3	140.2	128.9	11.31	12.396	
2,100.0	2,095.6	2,088.1	2,084.8	6.3	6.1	-142.87	48.2	-85.9	142.7	131.3	11.35	12.565	
2,185.0	2,178.5	2,170.1	2,165.9	6.6	6.4	-143.02	58.9	-91.6	165.0	153.3	11.77	14.019	
2,200.1	2,193.2	2,184.6	2,180.2	6.6	6.4	-143.09	60.8	-92.6	169.2	157.4	11.85	14.283	
2,280.0	2,270.7	2,261.3	2,256.1	6.9	6.6	-143.67	70.8	-97.9	191.5	179.3	12.22	15.674	
2,300.0	2,290.1	2,280.5	2,275.1	6.9	6.7	-143.80	73.3	-99.2	197.1	184.8	12.31	16.009	
2,375.0	2,362.9	2,352.5	2,346.3	7.2	6.9	-144.21	82.7	-104.2	218.0	205.4	12.67	17.206	
2,400.0	2,387.1	2,376.5	2,370.0	7.3	7.0	-144.33	85.9	-105.9	225.0	212.2	12.79	17.589	
2,470.0	2,455.0	2,443.7	2,436.5	7.5	7.2	-144.64	94.7	-110.5	244.6	231.4	13.14	18.611	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #708H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8403-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Reference	Offset	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation	Warning
Measured	Vertical	Measured	Vertical	Reference	Offset	Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor
Depth	Depth	Depth	Depth	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	
2,500.0	2,484.1	2,472.5	2,465.0	7.6	7.3	-144.75	98.4	-112.5	252.9	239.7	13.29	19.031
2,565.0	2,547.2	2,534.9	2,526.7	7.8	7.5	-144.98	106.6	-116.8	271.1	257.5	13.63	19.897
2,600.0	2,581.2	2,568.5	2,559.9	8.0	7.6	-145.09	111.0	-119.1	280.9	267.1	13.81	20.345
2,660.0	2,639.4	2,626.1	2,616.9	8.2	7.8	-145.26	118.5	-123.1	297.7	283.5	14.12	21.076
2,700.0	2,678.2	2,664.5	2,654.9	8.3	7.9	-145.36	123.5	-125.7	308.8	294.5	14.34	21.544
2,755.0	2,731.6	2,717.3	2,707.1	8.6	8.1	-145.49	130.4	-129.4	324.2	309.6	14.63	22.158
2,800.0	2,775.2	2,760.6	2,749.8	8.7	8.3	-145.59	136.1	-132.4	336.8	321.9	14.88	22.640
2,850.0	2,823.7	2,808.6	2,797.3	8.9	8.4	-145.69	142.3	-135.7	350.8	335.6	15.15	23.151
2,900.0	2,872.3	2,856.6	2,844.8	9.1	8.6	-145.78	148.6	-139.0	364.8	349.3	15.43	23.641
2,945.0	2,915.9	2,899.8	2,887.5	9.3	8.8	-145.86	154.3	-142.0	377.3	361.7	15.68	24.063
3,000.0	2,969.3	2,952.6	2,939.7	9.5	9.0	-145.95	161.2	-145.6	392.7	376.7	15.99	24.558
3,040.0	3,008.1	2,991.0	2,977.7	9.7	9.1	-146.01	166.2	-148.3	403.9	387.7	16.22	24.903
3,100.0	3,066.3	3,048.6	3,034.7	9.9	9.3	-146.09	173.7	-152.2	420.7	404.1	16.56	25.400
3,135.0	3,100.3	3,082.2	3,067.9	10.1	9.4	-146.14	178.1	-154.6	430.5	413.7	16.76	25.677
3,200.0	3,163.3	3,144.6	3,129.6	10.4	9.7	-146.22	186.3	-158.9	448.7	431.5	17.14	26.173
3,230.0	3,192.4	3,173.4	3,158.1	10.5	9.8	-146.25	190.0	-160.8	457.0	439.7	17.32	26.393
3,300.0	3,260.4	3,240.6	3,224.6	10.8	10.0	-146.33	198.8	-165.5	476.6	458.9	17.73	26.886
3,325.0	3,284.6	3,264.6	3,248.3	10.9	10.1	-146.35	202.0	-167.1	483.6	465.7	17.88	27.054
3,400.0	3,357.4	3,336.6	3,319.5	11.2	10.4	-146.43	211.4	-172.1	504.6	486.3	18.32	27.543
3,420.0	3,376.8	3,355.8	3,338.5	11.3	10.5	-146.45	213.9	-173.4	510.2	491.8	18.44	27.667
3,500.0	3,454.4	3,432.6	3,414.5	11.7	10.8	-146.52	223.9	-178.7	532.6	513.7	18.92	28.150
3,515.0	3,469.0	3,447.0	3,428.7	11.7	10.8	-146.53	225.8	-179.7	536.8	517.8	19.01	28.237
3,600.0	3,551.5	3,528.6	3,509.4	12.1	11.2	-146.60	236.5	-185.4	560.5	541.0	19.52	28.712
3,610.0	3,561.2	3,538.2	3,518.9	12.1	11.2	-146.60	237.7	-186.0	563.3	543.8	19.58	28.766
3,700.0	3,648.5	3,624.6	3,604.4	12.5	11.6	-146.67	249.0	-192.0	588.5	568.4	20.13	29.234
3,705.0	3,653.3	3,629.4	3,609.1	12.6	11.6	-146.67	249.7	-192.3	589.9	569.8	20.16	29.259
3,800.0	3,745.5	3,720.6	3,699.3	13.0	11.9	-146.73	261.6	-198.6	616.5	595.7	20.74	29.719
3,895.0	3,837.7	3,811.8	3,789.5	13.4	12.3	-146.79	273.5	-204.9	643.1	621.7	21.33	30.149
3,900.0	3,842.5	3,816.6	3,794.3	13.4	12.3	-146.79	274.1	-205.2	644.5	623.1	21.36	30.171
3,990.0	3,929.9	3,903.0	3,879.7	13.8	12.7	-146.84	285.4	-211.2	669.6	647.7	21.92	30.551
4,000.0	3,939.6	3,912.6	3,889.2	13.9	12.7	-146.85	286.7	-211.9	672.4	650.5	21.98	30.592
4,085.0	4,022.0	3,994.2	3,969.9	14.3	13.0	-146.89	297.4	-217.5	696.2	673.7	22.51	30.929
4,100.0	4,036.6	4,008.6	3,984.2	14.3	13.1	-146.90	299.3	-218.5	700.4	677.8	22.60	30.986
4,180.0	4,114.2	4,085.4	4,060.1	14.7	13.4	-146.94	309.3	-223.8	722.8	699.7	23.11	31.283
4,200.0	4,133.6	4,104.6	4,079.1	14.8	13.5	-146.94	311.8	-225.1	728.4	705.2	23.23	31.358
4,275.0	4,206.4	4,180.2	4,153.9	15.2	13.8	-147.00	321.5	-230.2	749.3	725.6	23.69	31.622
4,300.0	4,230.7	4,206.0	4,179.4	15.3	13.9	-147.03	324.6	-231.9	756.1	732.3	23.86	31.694
4,370.0	4,298.6	4,278.4	4,251.2	15.6	14.2	-147.15	332.8	-236.2	775.0	750.7	24.32	31.863
4,400.0	4,327.7	4,309.5	4,282.1	15.7	14.3	-147.22	336.1	-237.9	783.0	758.5	24.52	31.929
4,465.0	4,390.8	4,377.0	4,349.2	16.0	14.6	-147.40	342.7	-241.4	800.0	775.0	24.95	32.060
4,500.0	4,424.7	4,413.4	4,385.4	16.2	14.7	-147.52	345.9	-243.1	808.9	783.8	25.18	32.125
4,560.0	4,482.9	4,475.9	4,447.7	16.5	14.9	-147.75	351.1	-245.8	824.1	798.5	25.57	32.227
4,600.0	4,521.7	4,517.7	4,489.3	16.7	15.1	-147.91	354.2	-247.5	834.0	808.2	25.83	32.289
4,655.0	4,575.1	4,575.1	4,546.6	16.9	15.3	-148.17	358.0	-249.5	847.5	821.3	26.18	32.367
4,700.0	4,618.8	4,622.2	4,593.6	17.1	15.5	-148.40	360.7	-250.9	858.3	831.8	26.47	32.426
4,750.0	4,667.3	4,674.6	4,645.9	17.4	15.6	-148.67	363.4	-252.4	870.1	843.3	26.78	32.486
4,800.0	4,715.8	4,727.0	4,698.2	17.6	15.8	-148.97	365.6	-253.5	881.7	854.6	27.09	32.542
4,845.0	4,759.5	4,774.2	4,745.4	17.8	16.0	-149.25	367.3	-254.4	892.0	864.6	27.36	32.602
4,853.6	4,767.8	4,783.3	4,754.4	17.8	16.0	-149.31	367.6	-254.6	893.9	866.5	27.41	32.612
4,900.0	4,812.9	4,832.1	4,803.2	18.0	16.1	-149.71	368.9	-255.2	904.0	876.3	27.68	32.662
4,940.0	4,851.9	4,874.3	4,845.4	18.2	16.3	-150.04	369.7	-255.7	912.0	884.1	27.92	32.667

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.0	4,910.7	4,937.9	4,909.0	18.5	16.4	-150.51	370.4	-256.0	923.0	894.7	28.26	32.662	
5,035.0	4,945.1	4,975.2	4,946.3	18.7	16.4	-150.77	370.5	-256.1	928.8	900.3	28.44	32.654	
5,100.0	5,009.2	5,039.4	5,010.6	19.0	16.5	-151.19	370.5	-256.1	938.4	909.6	28.75	32.644	
5,130.0	5,038.8	5,069.1	5,040.2	19.1	16.5	-151.37	370.5	-256.1	942.4	913.5	28.89	32.625	
5,200.0	5,108.2	5,138.4	5,109.6	19.4	16.5	-151.72	370.5	-256.1	950.8	921.5	29.22	32.543	
5,225.0	5,133.0	5,163.3	5,134.4	19.5	16.5	-151.83	370.5	-256.1	953.4	924.1	29.33	32.508	
5,300.0	5,207.6	5,237.9	5,209.0	19.9	16.6	-152.11	370.5	-256.1	960.1	930.4	29.66	32.365	
5,320.0	5,227.5	5,257.8	5,228.9	19.9	16.6	-152.17	370.5	-256.1	961.6	931.9	29.75	32.324	
5,400.0	5,307.3	5,337.6	5,308.7	20.2	16.6	-152.36	370.5	-256.1	966.4	936.3	30.09	32.122	
5,415.0	5,322.3	5,352.6	5,323.7	20.3	16.6	-152.39	370.5	-256.1	967.1	936.9	30.14	32.084	
5,500.0	5,407.3	5,437.5	5,408.7	20.6	16.7	-152.49	370.5	-256.1	969.6	939.1	30.46	31.833	
5,510.0	5,417.3	5,447.5	5,418.7	20.6	16.7	-152.50	370.5	-256.1	969.8	939.3	30.48	31.817	
5,553.7	5,461.0	5,491.3	5,462.4	20.6	16.7	-91.02	370.5	-256.1	970.1	939.5	30.57	31.734	
5,600.0	5,507.3	5,537.5	5,508.7	20.7	16.8	-91.02	370.5	-256.1	970.1	939.4	30.61	31.686	
5,605.0	5,512.3	5,542.5	5,513.7	20.7	16.8	-91.02	370.5	-256.1	970.1	939.4	30.62	31.680	
5,700.0	5,607.3	5,637.5	5,608.7	20.7	16.8	-91.02	370.5	-256.1	970.1	939.3	30.74	31.558	
5,795.0	5,702.3	5,732.5	5,703.7	20.7	16.9	-91.02	370.5	-256.1	970.1	939.2	30.86	31.437	
5,800.0	5,707.3	5,737.5	5,708.7	20.7	16.9	-91.02	370.5	-256.1	970.1	939.2	30.86	31.430	
5,890.0	5,797.3	5,827.5	5,798.7	20.8	16.9	-91.02	370.5	-256.1	970.1	939.1	30.98	31.316	
5,900.0	5,807.3	5,837.5	5,808.7	20.8	16.9	-91.02	370.5	-256.1	970.1	939.1	30.99	31.304	
5,985.0	5,892.3	5,922.5	5,893.7	20.8	17.0	-91.02	370.5	-256.1	970.1	939.0	31.09	31.197	
6,000.0	5,907.3	5,937.5	5,908.7	20.8	17.0	-91.02	370.5	-256.1	970.1	938.9	31.11	31.178	
6,080.0	5,987.3	6,017.5	5,988.7	20.9	17.0	-91.02	370.5	-256.1	970.1	938.8	31.21	31.077	
6,100.0	6,007.3	6,037.5	6,008.7	20.9	17.0	-91.02	370.5	-256.1	970.1	938.8	31.24	31.052	
6,175.0	6,082.3	6,112.5	6,083.7	20.9	17.1	-91.02	370.5	-256.1	970.1	938.7	31.33	30.959	
6,200.0	6,107.3	6,137.5	6,108.7	20.9	17.1	-91.02	370.5	-256.1	970.1	938.7	31.36	30.928	
6,270.0	6,177.3	6,207.5	6,178.7	20.9	17.1	-91.02	370.5	-256.1	970.1	938.6	31.45	30.841	
6,300.0	6,207.3	6,237.5	6,208.7	21.0	17.2	-91.02	370.5	-256.1	970.1	938.6	31.49	30.804	
6,365.0	6,272.3	6,302.5	6,273.7	21.0	17.2	-91.02	370.5	-256.1	970.1	938.5	31.57	30.724	
6,400.0	6,307.3	6,337.5	6,308.7	21.0	17.2	-91.02	370.5	-256.1	970.1	938.4	31.62	30.681	
6,460.0	6,367.3	6,397.5	6,368.7	21.0	17.3	-91.02	370.5	-256.1	970.1	938.4	31.69	30.608	
6,500.0	6,407.3	6,437.5	6,408.7	21.0	17.3	-91.02	370.5	-256.1	970.1	938.3	31.74	30.559	
6,555.0	6,462.3	6,492.5	6,463.7	21.1	17.3	-91.02	370.5	-256.1	970.1	938.2	31.81	30.492	
6,600.0	6,507.3	6,537.5	6,508.7	21.1	17.3	-91.02	370.5	-256.1	970.1	938.2	31.87	30.438	
6,650.0	6,557.3	6,587.5	6,558.7	21.1	17.4	-91.02	370.5	-256.1	970.1	938.1	31.93	30.377	
6,700.0	6,607.3	6,637.5	6,608.7	21.1	17.4	-91.02	370.5	-256.1	970.1	938.1	32.00	30.317	
6,745.0	6,652.3	6,682.5	6,653.7	21.1	17.4	-91.02	370.5	-256.1	970.1	938.0	32.05	30.263	
6,800.0	6,707.3	6,737.5	6,708.7	21.2	17.5	-91.02	370.5	-256.1	970.1	937.9	32.12	30.197	
6,840.0	6,747.3	6,777.5	6,748.7	21.2	17.5	-91.02	370.5	-256.1	970.1	937.9	32.18	30.149	
6,900.0	6,807.3	6,837.5	6,808.7	21.2	17.5	-91.02	370.5	-256.1	970.1	937.8	32.25	30.077	
6,935.0	6,842.3	6,872.5	6,843.7	21.2	17.5	-91.02	370.5	-256.1	970.1	937.8	32.30	30.036	
7,000.0	6,907.3	6,937.5	6,908.7	21.3	17.6	-91.02	370.5	-256.1	970.1	937.7	32.38	29.959	
7,030.0	6,937.3	6,967.5	6,938.7	21.3	17.6	-91.02	370.5	-256.1	970.1	937.6	32.42	29.923	
7,100.0	7,007.3	7,037.5	7,008.7	21.3	17.6	-91.02	370.5	-256.1	970.1	937.5	32.51	29.841	
7,125.0	7,032.3	7,062.5	7,033.7	21.3	17.7	-91.02	370.5	-256.1	970.1	937.5	32.54	29.812	
7,200.0	7,107.3	7,137.5	7,108.7	21.3	17.7	-91.02	370.5	-256.1	970.1	937.4	32.64	29.724	
7,220.0	7,127.3	7,157.5	7,128.7	21.4	17.7	-91.02	370.5	-256.1	970.1	937.4	32.66	29.700	
7,300.0	7,207.3	7,237.5	7,208.7	21.4	17.8	-91.02	370.5	-256.1	970.1	937.3	32.76	29.607	
7,315.0	7,222.3	7,252.5	7,223.7	21.4	17.8	-91.02	370.5	-256.1	970.1	937.3	32.78	29.590	
7,400.0	7,307.3	7,337.5	7,308.7	21.4	17.8	-91.02	370.5	-256.1	970.1	937.2	32.89	29.492	
7,410.0	7,317.3	7,347.5	7,318.7	21.4	17.8	-91.02	370.5	-256.1	970.1	937.1	32.91	29.480	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor
7,500.0	7,407.3	7,437.5	7,408.7	21.5	17.9	-91.02	370.5	-256.1	970.1	937.0	33.02	29.376
7,505.0	7,412.3	7,442.5	7,413.7	21.5	17.9	-91.02	370.5	-256.1	970.1	937.0	33.03	29.371
7,600.0	7,507.3	7,537.5	7,508.7	21.5	17.9	-91.02	370.5	-256.1	970.1	936.9	33.15	29.262
7,695.0	7,602.3	7,632.5	7,603.7	21.6	18.0	-91.02	370.5	-256.1	970.1	936.8	33.27	29.154
7,700.0	7,607.3	7,637.5	7,608.7	21.6	18.0	-91.02	370.5	-256.1	970.1	936.8	33.28	29.148
7,790.0	7,697.3	7,727.5	7,698.7	21.6	18.1	-91.02	370.5	-256.1	970.1	936.7	33.40	29.047
7,800.0	7,707.3	7,737.5	7,708.7	21.6	18.1	-91.02	370.5	-256.1	970.1	936.6	33.41	29.035
7,885.0	7,792.3	7,822.5	7,793.7	21.7	18.1	-91.02	370.5	-256.1	970.1	936.5	33.52	28.940
7,900.0	7,807.3	7,837.5	7,808.7	21.7	18.1	-91.02	370.5	-256.1	970.1	936.5	33.54	28.923
7,980.0	7,887.3	7,917.5	7,888.7	21.7	18.2	-91.02	370.5	-256.1	970.1	936.4	33.64	28.834
8,000.0	7,907.3	7,937.5	7,908.7	21.7	18.2	-91.02	370.5	-256.1	970.1	936.4	33.67	28.812
8,075.0	7,982.3	8,012.5	7,983.7	21.8	18.2	-91.02	370.5	-256.1	970.1	936.3	33.77	28.728
8,100.0	8,007.3	8,037.5	8,008.7	21.8	18.2	-91.02	370.5	-256.1	970.1	936.3	33.80	28.701
8,170.0	8,077.3	8,107.5	8,078.7	21.8	18.3	-91.02	370.5	-256.1	970.1	936.2	33.89	28.623
8,200.0	8,107.3	8,137.5	8,108.7	21.8	18.3	-91.02	370.5	-256.1	970.1	936.1	33.93	28.590
8,265.0	8,172.3	8,202.5	8,173.7	21.8	18.4	-91.02	370.5	-256.1	970.1	936.0	34.01	28.519
8,300.0	8,207.3	8,237.5	8,208.7	21.9	18.4	-91.02	370.5	-256.1	970.1	936.0	34.06	28.481
8,360.0	8,267.3	8,297.5	8,268.7	21.9	18.4	-91.02	370.5	-256.1	970.1	935.9	34.14	28.415
8,400.0	8,307.3	8,337.5	8,308.7	21.9	18.4	-91.02	370.5	-256.1	970.1	935.9	34.19	28.375
8,455.0	8,362.3	8,392.5	8,363.7	21.9	18.5	-91.02	370.5	-256.1	970.1	935.8	34.25	28.324
8,455.7	8,363.0	8,393.3	8,364.4	21.9	18.5	-91.02	370.5	-256.1	970.1	935.8	34.25	28.323
8,485.8	8,393.0	8,422.4	8,393.6	21.9	18.5	-91.04	370.2	-256.1	970.1	935.8	34.27	28.306
8,500.0	8,407.3	8,436.0	8,407.1	21.9	18.5	88.43	369.5	-256.1	970.1	935.8	34.27	28.305
8,550.0	8,457.1	8,483.7	8,454.6	22.0	18.5	88.34	364.8	-256.2	970.1	935.8	34.28	28.301
8,600.0	8,506.5	8,531.3	8,501.3	22.0	18.6	88.26	356.2	-256.2	970.2	935.9	34.28	28.303
8,645.0	8,550.2	8,574.0	8,542.6	22.0	18.7	88.20	345.1	-256.3	970.2	935.9	34.27	28.308
8,650.0	8,555.0	8,578.8	8,547.2	22.0	18.7	88.19	343.7	-256.3	970.2	935.9	34.27	28.309
8,700.0	8,602.3	8,626.2	8,591.7	22.0	18.7	88.14	327.5	-256.5	970.2	936.0	34.26	28.318
8,740.0	8,639.0	8,664.1	8,626.3	22.0	18.8	88.10	312.0	-256.6	970.2	936.0	34.25	28.326
8,750.0	8,648.0	8,673.6	8,634.7	22.1	18.8	88.10	307.8	-256.7	970.2	936.0	34.25	28.329
8,800.0	8,691.7	8,720.9	8,675.9	22.1	18.8	88.07	284.5	-256.9	970.3	936.0	34.24	28.340
8,835.0	8,721.0	8,754.0	8,703.5	22.1	18.9	88.06	266.3	-257.0	970.3	936.0	34.23	28.347
8,850.0	8,733.2	8,768.2	8,715.0	22.1	18.9	88.06	258.0	-257.1	970.3	936.0	34.22	28.350
8,900.0	8,772.1	8,815.5	8,751.8	22.1	18.9	88.06	228.3	-257.4	970.3	936.1	34.22	28.357
8,930.0	8,794.1	8,843.8	8,772.7	22.2	19.0	88.07	209.1	-257.5	970.3	936.0	34.21	28.358
8,950.0	8,808.1	8,862.8	8,786.1	22.2	19.0	88.08	195.7	-257.7	970.3	936.0	34.21	28.358
9,000.0	8,841.0	8,910.1	8,817.5	22.2	19.1	88.11	160.3	-258.0	970.2	936.0	34.22	28.353
9,025.0	8,856.1	8,933.8	8,832.1	22.2	19.1	88.13	141.7	-258.1	970.2	936.0	34.23	28.347
9,050.0	8,870.4	8,957.4	8,846.0	22.2	19.1	88.15	122.5	-258.3	970.2	936.0	34.24	28.339
9,100.0	8,896.2	9,004.9	8,871.2	22.3	19.2	88.21	82.3	-258.7	970.2	935.9	34.26	28.315
9,120.0	8,905.5	9,023.9	8,880.4	22.3	19.2	88.23	65.7	-258.8	970.2	935.9	34.28	28.300
9,150.0	8,918.2	9,052.4	8,893.1	22.3	19.2	88.28	40.2	-259.0	970.2	935.8	34.31	28.279
9,200.0	8,936.1	9,100.0	8,911.4	22.4	19.3	88.36	-3.7	-259.4	970.1	935.8	34.37	28.230
9,215.0	8,940.7	9,114.3	8,916.2	22.4	19.3	88.38	-17.2	-259.5	970.1	935.7	34.39	28.211
9,250.0	8,950.0	9,147.7	8,926.1	22.4	19.3	88.45	-49.1	-259.8	970.1	935.6	34.44	28.167
9,300.0	8,959.6	9,195.6	8,937.0	22.5	19.3	88.56	-95.7	-260.2	970.0	935.5	34.53	28.090
9,310.0	8,961.0	9,205.2	8,938.7	22.5	19.3	88.58	-105.2	-260.3	970.0	935.5	34.55	28.072
9,350.0	8,964.9	9,243.6	8,943.9	22.5	19.4	88.67	-143.2	-260.7	970.0	935.3	34.64	27.999
9,385.2	8,966.0	9,277.5	8,946.4	22.6	19.4	88.76	-177.0	-261.0	969.9	935.2	34.73	27.928
9,400.0	8,966.0	9,291.7	8,946.9	22.6	19.4	88.79	-191.2	-261.1	969.9	935.2	34.77	27.897
9,405.0	8,966.0	9,296.6	8,947.0	22.6	19.4	88.79	-196.1	-261.1	969.9	935.2	34.78	27.885

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 #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #708H - OWB - PWP1													Offset Site Error: 0.0 usft	
Survey Program: Reference		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8403-r.5 MWD+IFR1+MS						Rule Assigned:					Offset Well Error: 3.0 usft	
Offset		Semi Major Axis		Offset Wellbore Centre		Distance								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
9,411.8	8,966.0	9,303.2	8,947.0	22.6	19.4	88.79	-202.7	-261.2	969.9	935.1	34.80	27.870		
9,500.0	8,966.1	9,391.4	8,947.1	22.7	19.4	88.80	-290.9	-262.0	969.9	934.8	35.10	27.637		
9,595.0	8,966.2	9,486.4	8,947.3	22.9	19.5	88.80	-385.9	-262.8	969.9	934.5	35.47	27.345		
9,600.0	8,966.2	9,491.4	8,947.3	22.9	19.5	88.80	-390.9	-262.9	969.9	934.4	35.49	27.329		
9,690.0	8,966.3	9,581.4	8,947.4	23.0	19.5	88.80	-480.9	-263.7	969.9	934.0	35.90	27.017		
9,700.0	8,966.3	9,591.4	8,947.4	23.0	19.5	88.80	-490.9	-263.7	969.9	934.0	35.95	26.982		
9,785.0	8,966.4	9,676.4	8,947.6	23.2	19.6	88.80	-575.9	-264.5	969.9	933.6	36.39	26.657		
9,800.0	8,966.4	9,691.4	8,947.6	23.2	19.6	88.80	-590.9	-264.6	969.9	933.5	36.46	26.600		
9,880.0	8,966.5	9,771.4	8,947.7	23.4	19.7	88.81	-670.9	-265.3	969.9	933.0	36.92	26.271		
9,900.0	8,966.5	9,791.4	8,947.7	23.4	19.7	88.81	-690.9	-265.5	969.9	932.9	37.04	26.189		
9,975.0	8,966.6	9,866.4	8,947.8	23.6	19.8	88.81	-765.8	-266.2	969.9	932.4	37.51	25.861		
10,000.0	8,966.6	9,891.4	8,947.9	23.7	19.8	88.81	-790.8	-266.4	969.9	932.3	37.66	25.753		
10,070.0	8,966.7	9,961.4	8,948.0	23.8	19.9	88.81	-860.8	-267.0	969.9	931.8	38.14	25.433		
10,100.0	8,966.7	9,991.4	8,948.0	23.9	19.9	88.81	-890.8	-267.3	969.9	931.6	38.34	25.298		
10,165.0	8,966.8	10,056.4	8,948.1	24.1	20.0	88.81	-955.8	-267.9	969.9	931.1	38.81	24.991		
10,200.0	8,966.8	10,091.4	8,948.2	24.2	20.1	88.82	-990.8	-268.2	969.9	930.9	39.07	24.828		
10,260.0	8,966.9	10,151.4	8,948.3	24.3	20.1	88.82	-1,050.8	-268.7	969.9	930.4	39.53	24.538		
10,300.0	8,966.9	10,191.4	8,948.3	24.4	20.2	88.82	-1,090.8	-269.1	969.9	930.1	39.84	24.347		
10,355.0	8,967.0	10,246.4	8,948.4	24.6	20.3	88.82	-1,145.8	-269.6	969.9	929.7	40.29	24.077		
10,400.0	8,967.0	10,291.4	8,948.5	24.7	20.4	88.82	-1,190.8	-270.0	969.9	929.3	40.65	23.859		
10,450.0	8,967.1	10,341.4	8,948.5	24.9	20.5	88.82	-1,240.8	-270.4	969.9	928.9	41.08	23.612		
10,500.0	8,967.1	10,391.4	8,948.6	25.1	20.6	88.82	-1,290.8	-270.8	969.9	928.4	41.51	23.368		
10,545.0	8,967.2	10,436.4	8,948.7	25.2	20.7	88.82	-1,335.8	-271.2	969.9	928.0	41.91	23.145		
10,600.0	8,967.2	10,491.4	8,948.8	25.4	20.8	88.83	-1,390.8	-271.7	969.9	927.5	42.40	22.876		
10,640.0	8,967.3	10,531.4	8,948.8	25.5	20.9	88.83	-1,430.8	-272.1	969.9	927.2	42.77	22.678		
10,700.0	8,967.3	10,591.4	8,948.9	25.7	21.1	88.83	-1,490.8	-272.6	970.0	926.6	43.33	22.387		
10,735.0	8,967.4	10,626.4	8,949.0	25.9	21.2	88.83	-1,525.8	-272.9	970.0	926.3	43.66	22.215		
10,800.0	8,967.4	10,691.4	8,949.1	26.1	21.4	88.83	-1,590.8	-273.5	970.0	925.7	44.29	21.901		
10,830.0	8,967.5	10,721.4	8,949.1	26.2	21.5	88.83	-1,620.8	-273.8	970.0	925.4	44.58	21.755		
10,900.0	8,967.5	10,791.4	8,949.2	26.5	21.8	88.83	-1,690.8	-274.4	970.0	924.7	45.28	21.422		
10,925.0	8,967.6	10,816.4	8,949.2	26.6	21.9	88.84	-1,715.8	-274.6	970.0	924.4	45.53	21.302		
11,000.0	8,967.6	10,891.4	8,949.4	26.9	22.1	88.84	-1,790.8	-275.3	970.0	923.7	46.30	20.950		
11,020.0	8,967.6	10,911.4	8,949.4	27.0	22.2	88.84	-1,810.8	-275.5	970.0	923.4	46.51	20.856		
11,100.0	8,967.7	10,991.4	8,949.5	27.3	22.6	88.84	-1,890.8	-276.2	970.0	922.6	47.35	20.486		
11,115.0	8,967.7	11,006.4	8,949.5	27.4	22.6	88.84	-1,905.8	-276.3	970.0	922.4	47.51	20.417		
11,200.0	8,967.8	11,091.4	8,949.6	27.7	23.0	88.84	-1,990.8	-277.1	970.0	921.5	48.42	20.033		
11,210.0	8,967.8	11,101.4	8,949.7	27.8	23.0	88.84	-2,000.8	-277.1	970.0	921.4	48.53	19.988		
11,300.0	8,967.9	11,191.4	8,949.8	28.2	23.5	88.85	-2,090.8	-277.9	970.0	920.4	49.52	19.589		
11,305.0	8,967.9	11,196.4	8,949.8	28.2	23.5	88.85	-2,095.8	-278.0	970.0	920.4	49.57	19.567		
11,400.0	8,968.0	11,291.4	8,949.9	28.6	24.0	88.85	-2,190.8	-278.8	970.0	919.3	50.63	19.157		
11,495.0	8,968.1	11,386.4	8,950.1	29.1	24.5	88.85	-2,285.8	-279.7	970.0	918.2	51.71	18.756		
11,500.0	8,968.1	11,391.4	8,950.1	29.1	24.5	88.85	-2,290.8	-279.7	970.0	918.2	51.77	18.735		
11,590.0	8,968.2	11,481.4	8,950.2	29.6	25.0	88.85	-2,380.8	-280.5	970.0	917.1	52.81	18.366		
11,600.0	8,968.2	11,491.4	8,950.2	29.6	25.1	88.85	-2,390.8	-280.6	970.0	917.0	52.93	18.326		
11,685.0	8,968.3	11,576.4	8,950.4	30.0	25.5	88.86	-2,475.8	-281.4	970.0	916.0	53.93	17.986		
11,700.0	8,968.3	11,591.4	8,950.4	30.1	25.6	88.86	-2,490.8	-281.5	970.0	915.9	54.11	17.927		
11,780.0	8,968.4	11,671.4	8,950.5	30.5	26.1	88.86	-2,570.8	-282.2	970.0	914.9	55.06	17.617		
11,800.0	8,968.4	11,691.4	8,950.5	30.6	26.2	88.86	-2,590.8	-282.4	970.0	914.7	55.30	17.541		
11,875.0	8,968.5	11,766.4	8,950.6	31.0	26.7	88.86	-2,665.8	-283.1	970.0	913.8	56.20	17.258		
11,900.0	8,968.5	11,791.4	8,950.7	31.1	26.8	88.86	-2,690.8	-283.3	970.0	913.5	56.51	17.165		
11,970.0	8,968.6	11,861.4	8,950.8	31.5	27.2	88.86	-2,760.8	-283.9	970.0	912.6	57.36	16.909		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
12,000.0	8,968.6	11,891.4	8,950.8	31.7	27.4	88.87	-2,790.8	-284.2	970.0	912.2	57.73	16.802	
12,065.0	8,968.7	11,956.4	8,950.9	32.0	27.8	88.87	-2,855.8	-284.7	970.0	911.4	58.54	16.571	
12,100.0	8,968.7	11,991.4	8,951.0	32.2	28.0	88.87	-2,890.8	-285.0	970.0	911.0	58.97	16.449	
12,160.0	8,968.8	12,051.4	8,951.1	32.5	28.4	88.87	-2,950.8	-285.6	970.0	910.2	59.72	16.242	
12,200.0	8,968.8	12,091.4	8,951.1	32.8	28.7	88.87	-2,990.8	-285.9	970.0	909.7	60.22	16.107	
12,255.0	8,968.9	12,146.4	8,951.2	33.1	29.0	88.87	-3,045.8	-286.4	970.0	909.1	60.91	15.924	
12,300.0	8,968.9	12,191.4	8,951.3	33.3	29.3	88.87	-3,090.8	-286.8	970.0	908.5	61.48	15.776	
12,350.0	8,969.0	12,241.4	8,951.3	33.6	29.6	88.88	-3,140.8	-287.3	970.0	907.8	62.12	15.615	
12,400.0	8,969.0	12,291.4	8,951.4	33.9	29.9	88.88	-3,190.7	-287.7	970.0	907.2	62.76	15.456	
12,445.0	8,969.1	12,336.4	8,951.5	34.2	30.2	88.88	-3,235.7	-288.1	970.0	906.6	63.34	15.315	
12,500.0	8,969.1	12,391.4	8,951.6	34.5	30.6	88.88	-3,290.7	-288.6	970.0	905.9	64.04	15.146	
12,540.0	8,969.2	12,431.4	8,951.6	34.7	30.9	88.88	-3,330.7	-289.0	970.0	905.4	64.56	15.024	
12,600.0	8,969.2	12,491.4	8,951.7	35.1	31.3	88.88	-3,390.7	-289.5	970.0	904.6	65.34	14.845	
12,635.0	8,969.3	12,526.4	8,951.8	35.3	31.5	88.88	-3,425.7	-289.8	970.0	904.2	65.79	14.742	
12,700.0	8,969.3	12,591.4	8,951.9	35.6	31.9	88.89	-3,490.7	-290.4	970.0	903.3	66.64	14.555	
12,730.0	8,969.4	12,621.4	8,951.9	35.8	32.1	88.89	-3,520.7	-290.6	970.0	902.9	67.04	14.469	
12,800.0	8,969.4	12,691.4	8,952.0	36.3	32.6	88.89	-3,590.7	-291.3	970.0	902.0	67.96	14.273	
12,825.0	8,969.5	12,716.4	8,952.1	36.4	32.8	88.89	-3,615.7	-291.5	970.0	901.7	68.29	14.204	
12,900.0	8,969.5	12,791.4	8,952.2	36.9	33.3	88.89	-3,690.7	-292.2	970.0	900.7	69.28	14.001	
12,920.0	8,969.6	12,811.4	8,952.2	37.0	33.4	88.89	-3,710.7	-292.3	970.0	900.4	69.55	13.947	
13,000.0	8,969.6	12,891.4	8,952.3	37.5	34.0	88.89	-3,790.7	-293.0	970.0	899.4	70.61	13.737	
13,015.0	8,969.7	12,906.4	8,952.3	37.6	34.1	88.89	-3,805.7	-293.2	970.0	899.2	70.81	13.698	
13,100.0	8,969.7	12,991.4	8,952.5	38.1	34.6	88.90	-3,890.7	-293.9	970.0	898.0	71.95	13.481	
13,110.0	8,969.8	13,001.4	8,952.5	38.2	34.7	88.90	-3,900.7	-294.0	970.0	897.9	72.09	13.456	
13,200.0	8,969.8	13,091.4	8,952.6	38.7	35.3	88.90	-3,990.7	-294.8	970.0	896.7	73.30	13.233	
13,205.0	8,969.8	13,096.4	8,952.6	38.7	35.4	88.90	-3,995.7	-294.9	970.0	896.6	73.37	13.221	
13,300.0	8,969.9	13,191.4	8,952.8	39.3	36.0	88.90	-4,090.7	-295.7	970.0	895.3	74.65	12.993	
13,395.0	8,970.0	13,286.4	8,952.9	40.0	36.7	88.90	-4,185.7	-296.5	970.0	894.0	75.94	12.772	
13,400.0	8,970.0	13,291.4	8,952.9	40.0	36.7	88.90	-4,190.7	-296.6	970.0	894.0	76.01	12.761	
13,490.0	8,970.1	13,381.4	8,953.0	40.6	37.3	88.91	-4,280.7	-297.4	970.0	892.7	77.24	12.558	
13,500.0	8,970.1	13,391.4	8,953.1	40.6	37.4	88.91	-4,290.7	-297.5	970.0	892.6	77.38	12.536	
13,585.0	8,970.2	13,476.4	8,953.2	41.2	38.0	88.91	-4,375.7	-298.2	970.0	891.4	78.54	12.350	
13,600.0	8,970.2	13,491.4	8,953.2	41.3	38.1	88.91	-4,390.7	-298.4	970.0	891.2	78.75	12.317	
13,680.0	8,970.3	13,571.4	8,953.3	41.8	38.7	88.91	-4,470.7	-299.1	970.0	890.1	79.85	12.147	
13,700.0	8,970.3	13,591.4	8,953.3	41.9	38.8	88.91	-4,490.7	-299.3	970.0	889.9	80.13	12.106	
13,775.0	8,970.4	13,666.4	8,953.5	42.4	39.3	88.92	-4,565.7	-299.9	970.0	888.8	81.16	11.951	
13,800.0	8,970.4	13,691.4	8,953.5	42.6	39.5	88.92	-4,590.7	-300.1	970.0	888.5	81.51	11.900	
13,870.0	8,970.5	13,761.4	8,953.6	43.0	40.0	88.92	-4,660.7	-300.8	970.0	887.5	82.48	11.760	
13,900.0	8,970.5	13,791.4	8,953.6	43.2	40.2	88.92	-4,690.7	-301.0	970.0	887.1	82.90	11.701	
13,965.0	8,970.6	13,856.4	8,953.7	43.7	40.7	88.92	-4,755.7	-301.6	970.0	886.2	83.80	11.575	
14,000.0	8,970.6	13,891.4	8,953.8	43.9	40.9	88.92	-4,790.7	-301.9	970.0	885.7	84.29	11.508	
14,060.0	8,970.7	13,951.4	8,953.9	44.3	41.4	88.92	-4,850.7	-302.4	970.0	884.9	85.13	11.394	
14,100.0	8,970.7	13,991.4	8,953.9	44.6	41.7	88.92	-4,890.7	-302.8	970.0	884.3	85.69	11.320	
14,155.0	8,970.8	14,046.4	8,954.0	44.9	42.1	88.93	-4,945.7	-303.3	970.0	883.5	86.46	11.219	
14,200.0	8,970.8	14,091.4	8,954.1	45.2	42.4	88.93	-4,990.7	-303.7	970.0	882.9	87.09	11.138	
14,250.0	8,970.9	14,141.4	8,954.2	45.6	42.7	88.93	-5,040.7	-304.1	970.0	882.2	87.79	11.049	
14,300.0	8,971.0	14,191.4	8,954.2	45.9	43.1	88.93	-5,090.7	-304.6	970.0	881.5	88.49	10.961	
14,345.0	8,971.0	14,236.4	8,954.3	46.2	43.4	88.93	-5,135.7	-305.0	970.0	880.9	89.13	10.883	
14,400.0	8,971.1	14,291.4	8,954.4	46.6	43.8	88.93	-5,190.7	-305.5	970.0	880.1	89.90	10.789	
14,440.0	8,971.1	14,331.4	8,954.4	46.8	44.1	88.93	-5,230.7	-305.8	970.0	879.5	90.47	10.722	
14,500.0	8,971.2	14,391.4	8,954.5	47.2	44.5	88.94	-5,290.7	-306.4	970.0	878.7	91.32	10.622	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,535.0	8,971.2	14,426.4	8,954.6	47.5	44.8	88.94	-5,325.7	-306.7	970.0	878.2	91.81	10.565	
14,600.0	8,971.3	14,491.4	8,954.7	47.9	45.3	88.94	-5,390.7	-307.2	970.0	877.3	92.73	10.460	
14,630.0	8,971.3	14,521.4	8,954.7	48.1	45.5	88.94	-5,420.7	-307.5	970.0	876.8	93.16	10.412	
14,700.0	8,971.4	14,591.4	8,954.8	48.6	46.0	88.94	-5,490.7	-308.1	970.0	875.8	94.15	10.302	
14,725.0	8,971.4	14,616.4	8,954.9	48.8	46.2	88.94	-5,515.7	-308.4	970.0	875.5	94.51	10.263	
14,800.0	8,971.5	14,691.4	8,955.0	49.3	46.7	88.94	-5,590.7	-309.0	970.0	874.4	95.58	10.149	
14,820.0	8,971.5	14,711.4	8,955.0	49.4	46.8	88.94	-5,610.7	-309.2	970.0	874.1	95.86	10.119	
14,900.0	8,971.6	14,791.4	8,955.1	50.0	47.4	88.95	-5,690.6	-309.9	970.0	873.0	97.01	9.999	
14,915.0	8,971.6	14,806.4	8,955.1	50.1	47.5	88.95	-5,705.6	-310.0	970.0	872.8	97.22	9.977	
15,000.0	8,971.7	14,891.4	8,955.3	50.7	48.2	88.95	-5,790.6	-310.8	970.0	871.6	98.43	9.854	
15,010.0	8,971.7	14,901.4	8,955.3	50.7	48.2	88.95	-5,800.6	-310.9	970.0	871.4	98.58	9.840	
15,100.0	8,971.8	14,991.4	8,955.4	51.4	48.9	88.95	-5,890.6	-311.7	970.0	870.1	99.87	9.713	
15,105.0	8,971.8	14,996.4	8,955.4	51.4	48.9	88.95	-5,895.6	-311.7	970.0	870.1	99.94	9.706	
15,200.0	8,971.9	15,091.4	8,955.6	52.1	49.6	88.96	-5,990.6	-312.6	970.0	868.7	101.30	9.575	
15,295.0	8,972.0	15,186.4	8,955.7	52.7	50.3	88.96	-6,085.6	-313.4	970.0	867.3	102.67	9.448	
15,300.0	8,972.0	15,191.4	8,955.7	52.8	50.3	88.96	-6,090.6	-313.5	970.0	867.3	102.74	9.441	
15,390.0	8,972.0	15,281.4	8,955.8	53.4	51.0	88.96	-6,180.6	-314.3	970.0	866.0	104.04	9.324	
15,400.0	8,972.1	15,291.4	8,955.9	53.5	51.1	88.96	-6,190.6	-314.3	970.0	865.8	104.18	9.311	
15,485.0	8,972.1	15,376.4	8,956.0	54.1	51.7	88.96	-6,275.6	-315.1	970.0	864.6	105.41	9.202	
15,500.0	8,972.2	15,391.4	8,956.0	54.2	51.8	88.96	-6,290.6	-315.2	970.0	864.4	105.63	9.183	
15,580.0	8,972.2	15,471.4	8,956.1	54.7	52.4	88.97	-6,370.6	-315.9	970.0	863.2	106.78	9.084	
15,600.0	8,972.3	15,491.4	8,956.2	54.9	52.5	88.97	-6,390.6	-316.1	970.0	862.9	107.07	9.060	
15,675.0	8,972.3	15,566.4	8,956.3	55.4	53.1	88.97	-6,465.6	-316.8	970.0	861.9	108.16	8.969	
15,700.0	8,972.4	15,591.4	8,956.3	55.6	53.3	88.97	-6,490.6	-317.0	970.0	861.5	108.52	8.939	
15,770.0	8,972.4	15,661.4	8,956.4	56.1	53.8	88.97	-6,560.6	-317.6	970.0	860.5	109.53	8.856	
15,800.0	8,972.5	15,691.4	8,956.5	56.3	54.0	88.97	-6,590.6	-317.9	970.0	860.0	109.97	8.821	
15,865.0	8,972.5	15,756.4	8,956.6	56.7	54.5	88.97	-6,655.6	-318.5	970.0	859.1	110.91	8.746	
15,900.0	8,972.6	15,791.4	8,956.6	57.0	54.8	88.97	-6,690.6	-318.8	970.0	858.6	111.42	8.706	
15,960.0	8,972.6	15,851.4	8,956.7	57.4	55.2	88.98	-6,750.6	-319.3	970.0	857.7	112.29	8.638	
16,000.0	8,972.7	15,891.4	8,956.8	57.7	55.5	88.98	-6,790.6	-319.7	970.0	857.1	112.87	8.594	
16,055.0	8,972.7	15,946.4	8,956.8	58.1	55.9	88.98	-6,845.6	-320.2	970.0	856.3	113.67	8.533	
16,100.0	8,972.8	15,991.4	8,956.9	58.4	56.2	88.98	-6,890.6	-320.6	970.0	855.7	114.33	8.484	
16,150.0	8,972.8	16,041.4	8,957.0	58.8	56.6	88.98	-6,940.6	-321.0	970.0	855.0	115.06	8.431	
16,200.0	8,972.9	16,091.4	8,957.0	59.1	57.0	88.98	-6,990.6	-321.4	970.0	854.2	115.79	8.378	
16,245.0	8,972.9	16,136.4	8,957.1	59.4	57.3	88.98	-7,035.6	-321.8	970.0	853.6	116.44	8.330	
16,300.0	8,973.0	16,191.4	8,957.2	59.8	57.7	88.99	-7,090.6	-322.3	970.0	852.8	117.25	8.273	
16,340.0	8,973.0	16,231.4	8,957.3	60.1	58.0	88.99	-7,130.6	-322.7	970.0	852.2	117.83	8.232	
16,400.0	8,973.1	16,291.4	8,957.3	60.5	58.4	88.99	-7,190.6	-323.2	970.0	851.3	118.71	8.171	
16,435.0	8,973.1	16,326.4	8,957.4	60.8	58.7	88.99	-7,225.6	-323.5	970.0	850.8	119.22	8.136	
16,500.0	8,973.2	16,391.4	8,957.5	61.3	59.2	88.99	-7,290.6	-324.1	970.0	849.8	120.17	8.072	
16,530.0	8,973.2	16,421.4	8,957.5	61.5	59.4	88.99	-7,320.6	-324.4	970.0	849.4	120.61	8.043	
16,600.0	8,973.3	16,491.4	8,957.6	62.0	59.9	88.99	-7,390.6	-325.0	970.0	848.4	121.64	7.975	
16,625.0	8,973.3	16,516.4	8,957.7	62.1	60.1	88.99	-7,415.6	-325.2	970.0	848.0	122.00	7.951	
16,700.0	8,973.4	16,591.4	8,957.8	62.7	60.7	89.00	-7,490.6	-325.9	970.0	846.9	123.10	7.880	
16,720.0	8,973.4	16,611.4	8,957.8	62.8	60.8	89.00	-7,510.6	-326.1	970.0	846.6	123.40	7.861	
16,800.0	8,973.5	16,691.4	8,957.9	63.4	61.4	89.00	-7,590.6	-326.8	970.0	845.5	124.57	7.787	
16,815.0	8,973.5	16,706.4	8,958.0	63.5	61.5	89.00	-7,605.6	-326.9	970.0	845.2	124.79	7.773	
16,900.0	8,973.6	16,791.4	8,958.1	64.1	62.2	89.00	-7,690.6	-327.7	970.0	844.0	126.04	7.696	
16,910.0	8,973.6	16,801.4	8,958.1	64.2	62.2	89.00	-7,700.6	-327.7	970.0	843.8	126.18	7.687	
17,000.0	8,973.7	16,891.4	8,958.2	64.8	62.9	89.01	-7,790.6	-328.5	970.0	842.5	127.51	7.608	
17,005.0	8,973.7	16,896.4	8,958.2	64.9	62.9	89.01	-7,795.6	-328.6	970.0	842.4	127.58	7.603	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #708H - OWB - PWP1														Offset Site Error: 0.0 usft	
Survey Program: Reference		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8403-r.5 MWD+IFR1+MS						Rule Assigned:		Offset Well Error: 3.0 usft					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
17,100.0	8,973.8	16,991.4	8,958.4	65.6	63.6	89.01	-7,890.6	-329.4	970.0	841.0	128.98	7.521			
17,195.0	8,973.9	17,086.4	8,958.5	66.3	64.4	89.01	-7,985.6	-330.3	970.0	839.6	130.38	7.440			
17,200.0	8,973.9	17,091.4	8,958.5	66.3	64.4	89.01	-7,990.6	-330.3	970.0	839.6	130.45	7.436			
17,290.0	8,974.0	17,181.4	8,958.7	66.9	65.1	89.01	-8,080.6	-331.1	970.0	838.2	131.78	7.361			
17,300.0	8,974.0	17,191.4	8,958.7	67.0	65.1	89.01	-8,090.6	-331.2	970.0	838.1	131.93	7.353			
17,385.0	8,974.1	17,276.4	8,958.8	67.6	65.8	89.02	-8,175.5	-332.0	970.0	836.8	133.18	7.284			
17,400.0	8,974.1	17,291.4	8,958.8	67.7	65.9	89.02	-8,190.5	-332.1	970.0	836.6	133.40	7.271			
17,480.0	8,974.2	17,371.4	8,958.9	68.3	66.5	89.02	-8,270.5	-332.8	970.0	835.4	134.58	7.208			
17,500.0	8,974.2	17,391.4	8,959.0	68.5	66.6	89.02	-8,290.5	-333.0	970.0	835.2	134.88	7.192			
17,575.0	8,974.2	17,466.4	8,959.1	69.0	67.2	89.02	-8,365.5	-333.6	970.0	834.0	135.99	7.133			
17,600.0	8,974.3	17,491.4	8,959.1	69.2	67.4	89.02	-8,390.5	-333.9	970.0	833.7	136.36	7.114			
17,670.0	8,974.3	17,561.4	8,959.2	69.7	67.9	89.02	-8,460.5	-334.5	970.0	832.6	137.39	7.060			
17,700.0	8,974.4	17,591.4	8,959.3	69.9	68.1	89.02	-8,490.5	-334.8	970.0	832.2	137.84	7.038			
17,765.0	8,974.4	17,656.4	8,959.4	70.4	68.6	89.03	-8,555.5	-335.3	970.0	831.2	138.80	6.989			
17,800.0	8,974.5	17,691.4	8,959.4	70.7	68.9	89.03	-8,590.5	-335.6	970.0	830.7	139.32	6.963			
17,860.0	8,974.5	17,751.4	8,959.5	71.1	69.3	89.03	-8,650.5	-336.2	970.0	829.8	140.20	6.919			
17,900.0	8,974.6	17,791.4	8,959.6	71.4	69.6	89.03	-8,690.5	-336.5	970.0	829.2	140.80	6.890			
17,955.0	8,974.6	17,846.4	8,959.6	71.8	70.0	89.03	-8,745.5	-337.0	970.0	828.4	141.61	6.850			
18,000.0	8,974.7	17,891.4	8,959.7	72.1	70.4	89.03	-8,790.5	-337.4	970.0	827.8	142.28	6.818			
18,050.0	8,974.7	17,941.4	8,959.8	72.5	70.7	89.03	-8,840.5	-337.9	970.0	827.0	143.02	6.783			
18,100.0	8,974.8	17,991.4	8,959.9	72.8	71.1	89.04	-8,890.5	-338.3	970.0	826.3	143.76	6.748			
18,145.0	8,974.8	18,036.4	8,959.9	73.2	71.5	89.04	-8,935.5	-338.7	970.0	825.6	144.43	6.716			
18,200.0	8,974.9	18,091.4	8,960.0	73.6	71.9	89.04	-8,990.5	-339.2	970.0	824.8	145.24	6.679			
18,240.0	8,974.9	18,131.4	8,960.1	73.9	72.2	89.04	-9,030.5	-339.6	970.0	824.2	145.84	6.651			
18,300.0	8,975.0	18,191.4	8,960.2	74.3	72.6	89.04	-9,090.5	-340.1	970.0	823.3	146.73	6.611			
18,335.0	8,975.0	18,226.4	8,960.2	74.6	72.9	89.04	-9,125.5	-340.4	970.0	822.8	147.25	6.588			
18,400.0	8,975.1	18,291.4	8,960.3	75.0	73.4	89.04	-9,190.5	-341.0	970.0	821.8	148.21	6.545			
18,430.0	8,975.1	18,321.4	8,960.3	75.3	73.6	89.05	-9,220.5	-341.2	970.0	821.4	148.66	6.525			
18,500.0	8,975.2	18,391.4	8,960.4	75.8	74.1	89.05	-9,290.5	-341.9	970.0	820.3	149.70	6.480			
18,525.0	8,975.2	18,416.4	8,960.5	76.0	74.3	89.05	-9,315.5	-342.1	970.0	820.0	150.07	6.464			
18,600.0	8,975.3	18,491.4	8,960.6	76.5	74.9	89.05	-9,390.5	-342.7	970.0	818.9	151.19	6.416			
18,620.0	8,975.3	18,511.4	8,960.6	76.7	75.0	89.05	-9,410.5	-342.9	970.0	818.6	151.49	6.404			
18,700.0	8,975.4	18,591.4	8,960.7	77.2	75.6	89.05	-9,490.5	-343.6	970.0	817.4	152.68	6.354			
18,715.0	8,975.4	18,606.4	8,960.8	77.4	75.7	89.05	-9,505.5	-343.8	970.0	817.1	152.90	6.344			
18,800.0	8,975.5	18,691.4	8,960.9	78.0	76.4	89.06	-9,590.5	-344.5	970.0	815.9	154.16	6.292			
18,810.0	8,975.5	18,701.4	8,960.9	78.0	76.4	89.06	-9,600.5	-344.6	970.0	815.7	154.31	6.286			
18,900.0	8,975.6	18,791.4	8,961.0	78.7	77.1	89.06	-9,690.5	-345.4	970.0	814.4	155.65	6.232			
18,905.0	8,975.6	18,796.4	8,961.0	78.7	77.2	89.06	-9,695.5	-345.5	970.0	814.3	155.73	6.229			
19,000.0	8,975.7	18,891.4	8,961.2	79.4	77.9	89.06	-9,790.5	-346.3	970.1	812.9	157.14	6.173			
19,095.0	8,975.8	18,986.4	8,961.3	80.1	78.6	89.06	-9,885.5	-347.1	970.1	811.5	158.56	6.118			
19,100.0	8,975.8	18,991.4	8,961.3	80.2	78.6	89.06	-9,890.5	-347.2	970.1	811.4	158.64	6.115			
19,190.0	8,975.9	19,081.4	8,961.5	80.8	79.3	89.07	-9,980.5	-348.0	970.1	810.1	159.98	6.064			
19,200.0	8,975.9	19,091.4	8,961.5	80.9	79.4	89.07	-9,990.5	-348.1	970.1	809.9	160.13	6.058			
19,285.0	8,976.0	19,176.4	8,961.6	81.5	80.0	89.07	-10,075.5	-348.8	970.1	808.7	161.40	6.010			
19,300.0	8,976.0	19,191.4	8,961.6	81.7	80.1	89.07	-10,090.5	-349.0	970.1	808.4	161.62	6.002			
19,380.0	8,976.1	19,271.4	8,961.8	82.3	80.7	89.07	-10,170.5	-349.7	970.1	807.2	162.81	5.958			
19,400.0	8,976.1	19,291.4	8,961.8	82.4	80.9	89.07	-10,190.5	-349.8	970.1	806.9	163.11	5.947			
19,475.0	8,976.2	19,366.4	8,961.9	83.0	81.4	89.07	-10,265.5	-350.5	970.1	805.8	164.23	5.907			
19,500.0	8,976.2	19,391.4	8,961.9	83.1	81.6	89.08	-10,290.5	-350.7	970.1	805.5	164.61	5.893			
19,570.0	8,976.3	19,461.4	8,962.0	83.7	82.2	89.08	-10,360.5	-351.4	970.1	804.4	165.65	5.856			
19,600.0	8,976.3	19,491.4	8,962.1	83.9	82.4	89.08	-10,390.5	-351.6	970.1	804.0	166.10	5.840			

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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
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
19,665.0	8,976.4	19,556.4	8,962.2	84.4	82.9	89.08	89.08	-10,455.5	-352.2	970.1	803.0	167.07	5.806
19,700.0	8,976.4	19,591.4	8,962.2	84.6	83.1	89.08	89.08	-10,490.5	-352.5	970.1	802.5	167.60	5.788
19,760.0	8,976.4	19,651.4	8,962.3	85.1	83.6	89.08	89.08	-10,550.5	-353.0	970.1	801.6	168.49	5.757
19,800.0	8,976.5	19,691.4	8,962.4	85.4	83.9	89.08	89.08	-10,590.4	-353.4	970.1	801.0	169.09	5.737
19,855.0	8,976.5	19,746.4	8,962.5	85.8	84.3	89.08	89.08	-10,645.4	-353.9	970.1	800.1	169.91	5.709
19,900.0	8,976.6	19,791.4	8,962.5	86.1	84.6	89.09	89.09	-10,690.4	-354.3	970.1	799.5	170.59	5.687
19,950.0	8,976.6	19,841.4	8,962.6	86.5	85.0	89.09	89.09	-10,740.4	-354.7	970.1	798.7	171.34	5.662
20,000.0	8,976.7	19,891.4	8,962.7	86.8	85.4	89.09	89.09	-10,790.4	-355.2	970.1	798.0	172.08	5.637
20,045.0	8,976.7	19,936.4	8,962.7	87.2	85.7	89.09	89.09	-10,835.4	-355.6	970.1	797.3	172.76	5.615
20,100.0	8,976.8	19,991.4	8,962.8	87.6	86.1	89.09	89.09	-10,890.4	-356.1	970.1	796.5	173.58	5.589
20,140.0	8,976.8	20,031.4	8,962.9	87.9	86.4	89.09	89.09	-10,930.4	-356.4	970.1	795.9	174.18	5.569
20,200.0	8,976.9	20,091.4	8,963.0	88.3	86.9	89.09	89.09	-10,990.4	-356.9	970.1	795.0	175.08	5.541
20,235.0	8,976.9	20,126.4	8,963.0	88.6	87.2	89.10	89.10	-11,025.4	-357.3	970.1	794.5	175.60	5.524
20,300.0	8,977.0	20,191.4	8,963.1	89.1	87.7	89.10	89.10	-11,090.4	-357.8	970.1	793.5	176.58	5.494
20,330.0	8,977.0	20,221.4	8,963.2	89.3	87.9	89.10	89.10	-11,120.4	-358.1	970.1	793.0	177.03	5.480
20,400.0	8,977.1	20,291.4	8,963.3	89.8	88.4	89.10	89.10	-11,190.4	-358.7	970.1	792.0	178.08	5.447
20,425.0	8,977.1	20,316.4	8,963.3	90.0	88.6	89.10	89.10	-11,215.4	-358.9	970.1	791.6	178.45	5.436
20,500.0	8,977.2	20,391.4	8,963.4	90.6	89.2	89.10	89.10	-11,290.4	-359.6	970.1	790.5	179.58	5.402
20,520.0	8,977.2	20,411.4	8,963.4	90.7	89.3	89.10	89.10	-11,310.4	-359.8	970.1	790.2	179.88	5.393
20,600.0	8,977.3	20,491.4	8,963.6	91.3	89.9	89.11	89.11	-11,390.4	-360.5	970.1	789.0	181.08	5.357
20,615.0	8,977.3	20,506.4	8,963.6	91.4	90.0	89.11	89.11	-11,405.4	-360.6	970.1	788.8	181.30	5.351
20,700.0	8,977.4	20,591.4	8,963.7	92.0	90.7	89.11	89.11	-11,490.4	-361.4	970.1	787.5	182.58	5.313
20,710.0	8,977.4	20,601.4	8,963.7	92.1	90.7	89.11	89.11	-11,500.4	-361.5	970.1	787.3	182.73	5.309
20,800.0	8,977.5	20,691.4	8,963.9	92.8	91.4	89.11	89.11	-11,590.4	-362.3	970.1	786.0	184.08	5.270
20,805.0	8,977.5	20,696.4	8,963.9	92.8	91.5	89.11	89.11	-11,595.4	-362.3	970.1	785.9	184.15	5.268
20,900.0	8,977.6	20,791.4	8,964.0	93.5	92.2	89.11	89.11	-11,690.4	-363.2	970.1	784.5	185.58	5.227
20,995.0	8,977.7	20,886.4	8,964.1	94.2	92.9	89.12	89.12	-11,785.4	-364.0	970.1	783.1	187.00	5.187
21,000.0	8,977.7	20,891.4	8,964.1	94.3	92.9	89.12	89.12	-11,790.4	-364.0	970.1	783.0	187.08	5.185
21,090.0	8,977.8	20,981.4	8,964.3	94.9	93.6	89.12	89.12	-11,880.4	-364.8	970.1	781.6	188.43	5.148
21,100.0	8,977.8	20,991.4	8,964.3	95.0	93.7	89.12	89.12	-11,890.4	-364.9	970.1	781.5	188.58	5.144
21,185.0	8,977.9	21,076.4	8,964.4	95.7	94.3	89.12	89.12	-11,975.4	-365.7	970.1	780.2	189.86	5.110
21,200.0	8,977.9	21,091.4	8,964.4	95.8	94.4	89.12	89.12	-11,990.4	-365.8	970.1	780.0	190.08	5.103
21,280.0	8,978.0	21,171.4	8,964.6	96.4	95.0	89.12	89.12	-12,070.4	-366.5	970.1	778.8	191.29	5.071
21,300.0	8,978.0	21,191.4	8,964.6	96.5	95.2	89.13	89.13	-12,090.4	-366.7	970.1	778.5	191.59	5.063
21,375.0	8,978.1	21,266.4	8,964.7	97.1	95.8	89.13	89.13	-12,165.4	-367.4	970.1	777.4	192.71	5.034
21,400.0	8,978.1	21,291.4	8,964.7	97.3	96.0	89.13	89.13	-12,190.4	-367.6	970.1	777.0	193.09	5.024
21,470.0	8,978.2	21,361.4	8,964.8	97.8	96.5	89.13	89.13	-12,260.4	-368.2	970.1	775.9	194.14	4.997
21,500.0	8,978.2	21,391.4	8,964.9	98.0	96.7	89.13	89.13	-12,290.4	-368.5	970.1	775.5	194.59	4.985
21,565.0	8,978.3	21,456.4	8,965.0	98.5	97.2	89.13	89.13	-12,355.4	-369.1	970.1	774.5	195.57	4.960
21,600.0	8,978.3	21,491.4	8,965.0	98.7	97.5	89.13	89.13	-12,390.4	-369.4	970.1	774.0	196.10	4.947
21,660.0	8,978.4	21,551.4	8,965.1	99.2	97.9	89.14	89.14	-12,450.4	-369.9	970.1	773.1	197.00	4.924
21,700.0	8,978.4	21,591.4	8,965.2	99.5	98.2	89.14	89.14	-12,490.4	-370.3	970.1	772.5	197.60	4.909
21,755.0	8,978.5	21,646.4	8,965.3	99.9	98.6	89.14	89.14	-12,545.4	-370.8	970.1	771.7	198.43	4.889
21,800.0	8,978.5	21,691.4	8,965.3	100.2	99.0	89.14	89.14	-12,590.4	-371.2	970.1	771.0	199.11	4.872
21,850.0	8,978.6	21,741.4	8,965.4	100.6	99.4	89.14	89.14	-12,640.4	-371.6	970.1	770.2	199.86	4.854
21,900.0	8,978.6	21,791.4	8,965.5	101.0	99.7	89.14	89.14	-12,690.4	-372.0	970.1	769.5	200.61	4.836
21,945.0	8,978.7	21,836.4	8,965.5	101.3	100.1	89.14	89.14	-12,735.4	-372.4	970.1	768.8	201.29	4.819
22,000.0	8,978.7	21,891.4	8,965.6	101.7	100.5	89.14	89.14	-12,790.4	-372.9	970.1	768.0	202.12	4.800
22,040.0	8,978.7	21,931.4	8,965.7	102.0	100.8	89.15	89.15	-12,830.4	-373.3	970.1	767.4	202.72	4.785
22,100.0	8,978.8	21,991.4	8,965.8	102.5	101.2	89.15	89.15	-12,890.4	-373.8	970.1	766.5	203.62	4.764
22,135.0	8,978.8	22,026.4	8,965.8	102.7	101.5	89.15	89.15	-12,925.4	-374.1	970.1	765.9	204.15	4.752

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	Vertical	Measured	Depth	Reference	Offset	Toolface	+N/-S	+E/-W	Between	Between	Separation	Factor
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	Centres	Ellipses	(usft)	
22,200.0	8,978.9	22,091.4	8,965.9	103.2	102.0	89.15	-12,990.4	-374.7	970.1	765.0	205.13	4.729	
22,230.0	8,978.9	22,121.4	8,966.0	103.5	102.2	89.15	-13,020.4	-375.0	970.1	764.5	205.58	4.719	
22,300.0	8,979.0	22,191.4	8,966.1	104.0	102.8	89.15	-13,090.3	-375.6	970.1	763.5	206.63	4.695	
22,325.0	8,979.0	22,216.4	8,966.1	104.2	103.0	89.15	-13,115.3	-375.8	970.1	763.1	207.01	4.686	
22,400.0	8,979.1	22,291.4	8,966.2	104.7	103.5	89.16	-13,190.3	-376.5	970.1	762.0	208.14	4.661	
22,420.0	8,979.1	22,311.4	8,966.2	104.9	103.7	89.16	-13,210.3	-376.7	970.1	761.7	208.44	4.654	
22,500.0	8,979.2	22,391.4	8,966.4	105.5	104.3	89.16	-13,290.3	-377.4	970.1	760.4	209.65	4.627	
22,515.0	8,979.2	22,406.4	8,966.4	105.6	104.4	89.16	-13,305.3	-377.5	970.1	760.2	209.87	4.622	
22,600.0	8,979.3	22,491.4	8,966.5	106.2	105.0	89.16	-13,390.3	-378.3	970.1	758.9	211.16	4.594	
22,610.0	8,979.3	22,501.4	8,966.5	106.3	105.1	89.16	-13,400.3	-378.3	970.1	758.8	211.31	4.591	
22,700.0	8,979.4	22,591.4	8,966.7	107.0	105.8	89.16	-13,490.3	-379.1	970.1	757.4	212.66	4.562	
22,705.0	8,979.4	22,596.4	8,966.7	107.0	105.8	89.16	-13,495.3	-379.2	970.1	757.4	212.74	4.560	
22,800.0	8,979.5	22,691.4	8,966.8	107.7	106.5	89.17	-13,590.3	-380.0	970.1	755.9	214.17	4.530	
22,895.0	8,979.6	22,786.4	8,967.0	108.4	107.3	89.17	-13,685.3	-380.9	970.1	754.5	215.60	4.499	
22,900.0	8,979.6	22,791.4	8,967.0	108.5	107.3	89.17	-13,690.3	-380.9	970.1	754.4	215.68	4.498	
22,990.0	8,979.7	22,881.4	8,967.1	109.2	108.0	89.17	-13,780.3	-381.7	970.1	753.1	217.04	4.470	
23,000.0	8,979.7	22,891.4	8,967.1	109.2	108.1	89.17	-13,790.3	-381.8	970.1	752.9	217.19	4.467	
23,085.0	8,979.8	22,976.4	8,967.2	109.9	108.7	89.18	-13,875.3	-382.6	970.1	751.6	218.47	4.440	
23,100.0	8,979.8	22,991.4	8,967.3	110.0	108.8	89.18	-13,890.3	-382.7	970.1	751.4	218.70	4.436	
23,180.0	8,979.9	23,071.4	8,967.4	110.6	109.4	89.18	-13,970.3	-383.4	970.1	750.2	219.90	4.412	
23,200.0	8,979.9	23,091.4	8,967.4	110.7	109.6	89.18	-13,990.3	-383.6	970.1	749.9	220.21	4.405	
23,275.0	8,980.0	23,166.4	8,967.5	111.3	110.1	89.18	-14,065.3	-384.2	970.1	748.8	221.34	4.383	
23,300.0	8,980.0	23,191.4	8,967.6	111.5	110.3	89.18	-14,090.3	-384.5	970.1	748.4	221.71	4.375	
23,370.0	8,980.1	23,261.4	8,967.7	112.0	110.9	89.18	-14,160.3	-385.1	970.1	747.3	222.77	4.355	
23,400.0	8,980.1	23,291.4	8,967.7	112.2	111.1	89.18	-14,190.3	-385.4	970.1	746.9	223.22	4.346	
23,465.0	8,980.2	23,356.4	8,967.8	112.7	111.6	89.19	-14,255.3	-385.9	970.1	745.9	224.21	4.327	
23,500.0	8,980.2	23,391.4	8,967.8	113.0	111.9	89.19	-14,290.3	-386.2	970.1	745.4	224.73	4.317	
23,560.0	8,980.3	23,451.4	8,967.9	113.4	112.3	89.19	-14,350.3	-386.8	970.1	744.5	225.64	4.299	
23,600.0	8,980.3	23,491.4	8,968.0	113.7	112.6	89.19	-14,390.3	-387.1	970.1	743.9	226.24	4.288	
23,655.0	8,980.4	23,546.4	8,968.1	114.1	113.0	89.19	-14,445.3	-387.6	970.1	743.0	227.07	4.272	
23,700.0	8,980.4	23,591.4	8,968.1	114.5	113.4	89.19	-14,490.3	-388.0	970.1	742.4	227.75	4.259	
23,750.0	8,980.5	23,641.4	8,968.2	114.9	113.7	89.19	-14,540.3	-388.5	970.1	741.6	228.51	4.245	
23,800.0	8,980.5	23,691.4	8,968.3	115.2	114.1	89.20	-14,590.3	-388.9	970.1	740.9	229.26	4.231	
23,845.0	8,980.6	23,736.4	8,968.4	115.6	114.5	89.20	-14,635.3	-389.3	970.1	740.2	229.94	4.219	
23,900.0	8,980.6	23,791.4	8,968.4	116.0	114.9	89.20	-14,690.3	-389.8	970.1	739.3	230.78	4.204	
23,940.0	8,980.7	23,831.4	8,968.5	116.3	115.2	89.20	-14,730.3	-390.1	970.1	738.7	231.38	4.193	
24,000.0	8,980.7	23,891.4	8,968.6	116.7	115.6	89.20	-14,790.3	-390.7	970.1	737.8	232.29	4.176	
24,035.0	8,980.8	23,926.4	8,968.6	117.0	115.9	89.20	-14,825.3	-391.0	970.1	737.3	232.82	4.167	
24,100.0	8,980.8	23,991.4	8,968.7	117.5	116.4	89.20	-14,890.3	-391.6	970.1	736.3	233.80	4.149	
24,130.0	8,980.9	24,021.4	8,968.8	117.7	116.6	89.20	-14,920.3	-391.8	970.1	735.9	234.25	4.141	
24,147.5	8,980.9	24,038.9	8,968.8	117.8	116.8	89.20	-14,937.8	-392.0	970.1	735.6	234.51	4.137	
24,200.0	8,980.9	24,091.4	8,968.9	118.2	117.2	89.21	-14,990.3	-392.5	970.1	734.8	235.30	4.123	
24,225.0	8,980.9	24,116.4	8,968.9	118.4	117.3	89.21	-15,015.3	-392.7	970.1	734.4	235.68	4.116	
24,277.5	8,981.0	24,168.9	8,969.0	118.8	117.7	89.21	-15,067.8	-393.1	970.1	733.6	236.48	4.102	
24,278.2	8,981.0	24,169.5	8,969.0	118.8	117.7	89.21	-15,068.4	-393.1	970.1	733.6	236.48	4.102 SF	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #709H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8448-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	2.1	2.1	3.0	3.0	-91.02	-1.6	-90.0	90.0				
95.0	95.0	97.1	97.1	3.0	3.0	-91.02	-1.6	-90.0	90.0	84.0	6.04	14.911	
100.0	100.0	102.1	102.1	3.0	3.0	-91.02	-1.6	-90.0	90.0	84.0	6.04	14.897	
190.0	190.0	192.1	192.1	3.1	3.1	-91.02	-1.6	-90.0	90.0	83.8	6.26	14.389	
200.0	200.0	202.1	202.1	3.1	3.1	-91.02	-1.6	-90.0	90.0	83.7	6.29	14.314	
285.0	285.0	287.1	287.1	3.3	3.3	-91.02	-1.6	-90.0	90.0	83.5	6.49	13.879	
300.0	300.0	302.1	302.1	3.3	3.3	-91.02	-1.6	-90.0	90.0	83.5	6.52	13.796	
380.0	380.0	382.1	382.1	3.4	3.4	-91.02	-1.6	-90.0	90.0	83.3	6.70	13.426	
400.0	400.0	402.1	402.1	3.4	3.4	-91.02	-1.6	-90.0	90.0	83.3	6.75	13.331	
475.0	475.0	477.1	477.1	3.5	3.5	-91.02	-1.6	-90.0	90.0	83.1	6.92	13.016	
500.0	500.0	502.1	502.1	3.5	3.5	-91.02	-1.6	-90.0	90.0	83.0	6.97	12.909	
570.0	570.0	572.1	572.1	3.6	3.6	-91.02	-1.6	-90.0	90.0	82.9	7.12	12.641	
600.0	600.0	602.1	602.1	3.6	3.6	-91.02	-1.6	-90.0	90.0	82.8	7.19	12.525	
665.0	665.0	667.1	667.1	3.7	3.7	-91.02	-1.6	-90.0	90.0	82.7	7.32	12.297	
700.0	700.0	702.1	702.1	3.8	3.8	-91.02	-1.6	-90.0	90.0	82.6	7.39	12.174	
760.0	760.0	762.1	762.1	3.8	3.8	-91.02	-1.6	-90.0	90.0	82.5	7.51	11.979	
800.0	800.0	802.1	802.1	3.9	3.9	-91.02	-1.6	-90.0	90.0	82.4	7.60	11.850	
855.0	855.0	857.1	857.1	4.0	4.0	-91.02	-1.6	-90.0	90.0	82.3	7.70	11.685	
900.0	900.0	902.1	902.1	4.0	4.0	-91.02	-1.6	-90.0	90.0	82.2	7.79	11.551	
950.0	950.0	952.1	952.1	4.1	4.1	-91.02	-1.6	-90.0	90.0	82.1	7.89	11.412	
1,000.0	1,000.0	1,002.1	1,002.1	4.1	4.1	-91.02	-1.6	-90.0	90.0	82.0	7.98	11.274	
1,045.0	1,045.0	1,047.1	1,047.1	4.2	4.2	-91.02	-1.6	-90.0	90.0	81.9	8.07	11.157	
1,100.0	1,100.0	1,102.1	1,102.1	4.2	4.2	-91.02	-1.6	-90.0	90.0	81.8	8.17	11.016	
1,140.0	1,140.0	1,142.1	1,142.1	4.3	4.3	-91.02	-1.6	-90.0	90.0	81.8	8.24	10.918	
1,200.0	1,200.0	1,202.1	1,202.1	4.4	4.4	-91.02	-1.6	-90.0	90.0	81.7	8.35	10.774	
1,235.0	1,235.0	1,237.1	1,237.1	4.4	4.4	-91.02	-1.6	-90.0	90.0	81.6	8.42	10.695	
1,300.0	1,300.0	1,302.1	1,302.1	4.5	4.5	-91.02	-1.6	-90.0	90.0	81.5	8.53	10.548	
1,330.0	1,330.0	1,332.1	1,332.1	4.5	4.5	-91.02	-1.6	-90.0	90.0	81.4	8.59	10.484	
1,400.0	1,400.0	1,402.1	1,402.1	4.6	4.6	-91.02	-1.6	-90.0	90.0	81.3	8.71	10.336	
1,425.0	1,425.0	1,427.1	1,427.1	4.6	4.6	-91.02	-1.6	-90.0	90.0	81.3	8.75	10.285	
1,436.8	1,436.8	1,438.9	1,438.9	4.6	4.6	-91.02	-1.6	-90.0	90.0	81.2	8.77	10.261 CC	
1,500.0	1,500.0	1,502.0	1,502.0	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	1,521.5	1,521.5	4.7	4.7	-152.50	-1.6	-90.1	90.1	81.2	8.95	10.074 SF	
1,600.0	1,600.0	1,600.0	1,600.0	4.8	4.9	-152.43	-0.7	-91.5	93.1	83.9	9.21	10.103	
1,615.0	1,615.0	1,613.9	1,613.8	4.9	4.9	-152.41	-0.5	-92.0	94.1	84.8	9.28	10.132	
1,700.0	1,699.8	1,696.0	1,695.9	5.1	5.1	-152.26	1.7	-95.9	102.2	92.5	9.70	10.532	
1,710.0	1,709.8	1,705.7	1,705.5	5.1	5.1	-152.24	2.0	-96.4	103.4	93.7	9.75	10.605	
1,800.0	1,799.5	1,791.7	1,791.2	5.3	5.3	-152.02	5.6	-103.0	117.2	107.0	10.20	11.488	
1,805.0	1,804.4	1,796.5	1,796.0	5.3	5.3	-152.01	5.9	-103.4	118.1	107.9	10.23	11.548	
1,900.0	1,898.7	1,885.9	1,884.7	5.6	5.6	-151.76	11.0	-112.7	138.1	127.4	10.72	12.886	
1,995.0	1,992.5	1,973.5	1,971.3	5.9	5.8	-151.49	17.4	-124.1	163.3	152.1	11.22	14.550	
2,000.0	1,997.5	1,978.1	1,975.8	5.9	5.9	-151.48	17.8	-124.7	164.7	153.5	11.25	14.647	
2,090.0	2,085.8	2,059.0	2,055.4	6.2	6.1	-151.21	24.9	-137.5	193.5	181.7	11.73	16.487	
2,100.0	2,095.6	2,067.8	2,064.1	6.3	6.2	-151.18	25.7	-139.0	196.9	185.1	11.79	16.706	
2,185.0	2,178.5	2,142.0	2,136.6	6.6	6.4	-150.92	33.3	-152.5	228.5	216.3	12.25	18.647	
2,200.1	2,193.2	2,154.9	2,149.2	6.6	6.5	-150.87	34.7	-155.1	234.5	222.2	12.34	19.009	
2,280.0	2,270.7	2,224.4	2,216.8	6.9	6.7	-150.86	42.8	-169.5	267.3	254.5	12.74	20.972	
2,300.0	2,290.1	2,242.6	2,234.4	6.9	6.8	-150.85	44.9	-173.3	275.6	262.7	12.85	21.445	
2,375.0	2,362.9	2,310.9	2,300.7	7.2	7.0	-150.80	53.0	-187.7	306.6	293.4	13.26	23.130	
2,400.0	2,387.1	2,333.6	2,322.7	7.3	7.1	-150.79	55.6	-192.5	317.0	303.6	13.40	23.664	
2,470.0	2,455.0	2,397.4	2,384.6	7.5	7.3	-150.76	63.2	-206.0	346.0	332.2	13.79	25.081	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #709H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8448-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Offset	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)		
2,500.0	2,484.1	2,424.7	2,411.0	7.6	7.4	-150.75	66.4	-211.8	358.4	344.4	13.97	25.658
2,565.0	2,547.2	2,483.8	2,468.4	7.8	7.6	-150.73	73.4	-224.3	385.3	371.0	14.36	26.841
2,600.0	2,581.2	2,515.7	2,499.4	8.0	7.7	-150.72	77.1	-231.0	399.8	385.3	14.57	27.448
2,660.0	2,639.4	2,570.3	2,552.3	8.2	7.9	-150.70	83.6	-242.5	424.7	409.8	14.94	28.430
2,700.0	2,678.2	2,606.7	2,587.7	8.3	8.0	-150.69	87.8	-250.2	441.3	426.1	15.19	29.055
2,755.0	2,731.6	2,656.8	2,636.2	8.6	8.2	-150.67	93.8	-260.8	464.1	448.5	15.54	29.865
2,800.0	2,775.2	2,697.7	2,676.0	8.7	8.3	-150.66	98.6	-269.4	482.7	466.9	15.83	30.499
2,850.0	2,823.7	2,743.2	2,720.1	8.9	8.5	-150.65	104.0	-279.1	503.4	487.3	16.15	31.162
2,900.0	2,872.3	2,788.7	2,764.3	9.1	8.7	-150.65	109.3	-288.7	524.1	507.6	16.48	31.797
2,945.0	2,915.9	2,829.7	2,804.0	9.3	8.9	-150.64	114.1	-297.3	542.8	526.0	16.78	32.337
3,000.0	2,969.3	2,879.7	2,852.6	9.5	9.1	-150.63	120.1	-307.9	565.5	548.4	17.15	32.967
3,040.0	3,008.1	2,916.1	2,887.9	9.7	9.2	-150.62	124.3	-315.6	582.1	564.7	17.43	33.402
3,100.0	3,066.3	2,970.8	2,940.9	9.9	9.4	-150.62	130.8	-327.1	607.0	589.1	17.84	34.024
3,135.0	3,100.3	3,002.6	2,971.8	10.1	9.5	-150.61	134.5	-333.9	621.5	603.4	18.08	34.369
3,200.0	3,163.3	3,061.8	3,029.2	10.4	9.8	-150.60	141.5	-346.4	648.4	629.9	18.54	34.980
3,230.0	3,192.4	3,089.1	3,055.7	10.5	9.9	-150.60	144.7	-352.1	660.8	642.1	18.75	35.249
3,300.0	3,260.4	3,152.8	3,117.5	10.8	10.2	-150.59	152.3	-365.6	689.8	670.6	19.24	35.848
3,325.0	3,284.6	3,175.5	3,139.6	10.9	10.3	-150.59	154.9	-370.4	700.2	680.8	19.42	36.051
3,400.0	3,357.4	3,243.8	3,205.8	11.2	10.6	-150.58	163.0	-384.8	731.2	711.3	19.96	36.636
3,420.0	3,376.8	3,262.0	3,223.5	11.3	10.6	-150.58	165.1	-388.7	739.5	719.4	20.10	36.785
3,500.0	3,454.4	3,334.8	3,294.2	11.7	10.9	-150.57	173.7	-404.0	772.7	752.0	20.69	37.354
3,515.0	3,469.0	3,348.5	3,307.4	11.7	11.0	-150.57	175.3	-406.9	778.9	758.1	20.79	37.456
3,600.0	3,551.5	3,425.8	3,382.5	12.1	11.3	-150.57	184.5	-423.3	814.1	792.7	21.42	38.011
3,610.0	3,561.2	3,434.9	3,391.3	12.1	11.4	-150.57	185.5	-425.2	818.2	796.8	21.49	38.073
3,700.0	3,648.5	3,516.9	3,470.8	12.5	11.7	-150.56	195.2	-442.5	855.5	833.4	22.16	38.611
3,705.0	3,653.3	3,521.4	3,475.2	12.6	11.8	-150.56	195.7	-443.5	857.6	835.4	22.19	38.640
3,800.0	3,745.5	3,607.9	3,559.1	13.0	12.1	-150.55	205.9	-461.7	897.0	874.0	22.90	39.162
3,895.0	3,837.7	3,694.3	3,643.0	13.4	12.5	-150.55	216.1	-480.0	936.3	912.7	23.62	39.645
3,900.0	3,842.5	3,698.9	3,647.4	13.4	12.5	-150.55	216.7	-481.0	938.4	914.7	23.66	39.669
3,990.0	3,929.9	3,780.8	3,726.9	13.8	12.9	-150.54	226.3	-498.3	975.7	951.3	24.34	40.091
4,000.0	3,939.6	3,789.9	3,735.7	13.9	12.9	-150.54	227.4	-500.2	979.8	955.4	24.41	40.136
4,085.0	4,022.0	3,867.3	3,810.8	14.3	13.3	-150.54	236.5	-516.5	1,015.0	990.0	25.06	40.505
4,100.0	4,036.6	3,880.9	3,824.0	14.3	13.4	-150.54	238.1	-519.4	1,021.2	996.1	25.17	40.567
4,180.0	4,114.2	3,953.7	3,894.7	14.7	13.7	-150.53	246.7	-534.8	1,054.4	1,028.6	25.79	40.889
4,200.0	4,133.6	3,971.9	3,912.3	14.8	13.8	-150.53	248.9	-538.6	1,062.7	1,036.7	25.94	40.966
4,275.0	4,206.4	4,040.2	3,978.6	15.2	14.1	-150.53	256.9	-553.1	1,093.7	1,067.2	26.52	41.246
4,300.0	4,230.7	4,062.9	4,000.7	15.3	14.2	-150.53	259.6	-557.9	1,104.1	1,077.4	26.71	41.337
4,370.0	4,298.6	4,126.7	4,062.5	15.6	14.5	-150.53	267.1	-571.3	1,133.1	1,105.8	27.25	41.580
4,400.0	4,327.7	4,154.0	4,089.0	15.7	14.6	-150.52	270.3	-577.1	1,145.5	1,118.0	27.48	41.680
4,465.0	4,390.8	4,213.1	4,146.4	16.0	14.9	-150.52	277.3	-589.6	1,172.4	1,144.4	27.99	41.891
4,500.0	4,424.7	4,245.0	4,177.3	16.2	15.0	-150.52	281.1	-596.3	1,186.9	1,158.7	28.26	42.001
4,560.0	4,482.9	4,299.6	4,230.3	16.5	15.3	-150.52	287.5	-607.9	1,211.8	1,183.1	28.73	42.182
4,600.0	4,521.7	4,336.0	4,265.6	16.7	15.4	-150.52	291.8	-615.6	1,228.4	1,199.3	29.04	42.299
4,655.0	4,575.1	4,386.1	4,314.2	16.9	15.7	-150.52	297.7	-626.1	1,251.1	1,221.7	29.47	42.454
4,700.0	4,618.8	4,427.0	4,353.9	17.1	15.9	-150.51	302.5	-634.8	1,269.8	1,240.0	29.82	42.578
4,750.0	4,667.3	4,472.5	4,398.1	17.4	16.1	-150.51	307.9	-644.4	1,290.5	1,260.3	30.22	42.710
4,800.0	4,715.8	4,518.0	4,442.2	17.6	16.3	-150.51	313.3	-654.0	1,311.2	1,280.6	30.61	42.842

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #710H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8487-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:											
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.0	0.0	2.5	2.5	3.0	3.0	-91.00	-2.1	-120.0	120.0					
95.0	95.0	97.5	97.5	3.0	3.0	-91.00	-2.1	-120.0	120.0	114.0	6.04	19.881		
100.0	100.0	102.5	102.5	3.0	3.0	-91.00	-2.1	-120.0	120.0	114.0	6.04	19.862		
190.0	190.0	192.5	192.5	3.1	3.1	-91.00	-2.1	-120.0	120.0	113.8	6.26	19.183		
200.0	200.0	202.5	202.5	3.1	3.1	-91.00	-2.1	-120.0	120.0	113.7	6.29	19.085		
285.0	285.0	287.5	287.5	3.3	3.3	-91.00	-2.1	-120.0	120.0	113.5	6.49	18.504		
300.0	300.0	302.5	302.5	3.3	3.3	-91.00	-2.1	-120.0	120.0	113.5	6.53	18.394		
380.0	380.0	382.5	382.5	3.4	3.4	-91.00	-2.1	-120.0	120.0	113.3	6.70	17.900		
400.0	400.0	402.5	402.5	3.4	3.4	-91.00	-2.1	-120.0	120.0	113.3	6.75	17.773		
475.0	475.0	477.5	477.5	3.5	3.5	-91.00	-2.1	-120.0	120.0	113.1	6.92	17.353		
500.0	500.0	502.5	502.5	3.5	3.5	-91.00	-2.1	-120.0	120.0	113.0	6.97	17.211		
570.0	570.0	572.5	572.5	3.6	3.6	-91.00	-2.1	-120.0	120.0	112.9	7.12	16.853		
600.0	600.0	602.5	602.5	3.6	3.6	-91.00	-2.1	-120.0	120.0	112.8	7.19	16.699		
665.0	665.0	667.5	667.5	3.7	3.7	-91.00	-2.1	-120.0	120.0	112.7	7.32	16.395		
700.0	700.0	702.5	702.5	3.8	3.8	-91.00	-2.1	-120.0	120.0	112.6	7.39	16.231		
760.0	760.0	762.5	762.5	3.8	3.8	-91.00	-2.1	-120.0	120.0	112.5	7.51	15.972		
800.0	800.0	802.5	802.5	3.9	3.9	-91.00	-2.1	-120.0	120.0	112.4	7.60	15.800		
855.0	855.0	857.5	857.5	4.0	4.0	-91.00	-2.1	-120.0	120.0	112.3	7.70	15.580		
900.0	900.0	902.5	902.5	4.0	4.0	-91.00	-2.1	-120.0	120.0	112.2	7.79	15.401		
950.0	950.0	952.5	952.5	4.1	4.1	-91.00	-2.1	-120.0	120.0	112.1	7.89	15.215		
1,000.0	1,000.0	1,002.5	1,002.5	4.1	4.1	-91.00	-2.1	-120.0	120.0	112.0	7.98	15.031		
1,045.0	1,045.0	1,047.5	1,047.5	4.2	4.2	-91.00	-2.1	-120.0	120.0	112.0	8.07	14.875		
1,100.0	1,100.0	1,102.5	1,102.5	4.2	4.2	-91.00	-2.1	-120.0	120.0	111.8	8.17	14.687		
1,140.0	1,140.0	1,142.5	1,142.5	4.3	4.3	-91.00	-2.1	-120.0	120.0	111.8	8.24	14.557		
1,200.0	1,200.0	1,202.5	1,202.5	4.4	4.4	-91.00	-2.1	-120.0	120.0	111.7	8.35	14.365		
1,235.0	1,235.0	1,237.5	1,237.5	4.4	4.4	-91.00	-2.1	-120.0	120.0	111.6	8.42	14.259		
1,300.0	1,300.0	1,302.5	1,302.5	4.5	4.5	-91.00	-2.1	-120.0	120.0	111.5	8.53	14.063		
1,330.0	1,330.0	1,332.5	1,332.5	4.5	4.5	-91.00	-2.1	-120.0	120.0	111.4	8.59	13.978		
1,400.0	1,400.0	1,402.5	1,402.5	4.6	4.6	-91.00	-2.1	-120.0	120.0	111.3	8.71	13.780		
1,425.0	1,425.0	1,427.5	1,427.5	4.6	4.6	-91.00	-2.1	-120.0	120.0	111.3	8.75	13.713		
1,436.6	1,436.6	1,439.1	1,439.1	4.6	4.6	-91.00	-2.1	-120.0	120.0	111.2	8.77	13.682 CC		
1,500.0	1,500.0	1,502.4	1,502.4	4.7	4.7	-91.00	-2.1	-120.0	120.0	111.1	8.88	13.510 ES		
1,520.0	1,520.0	1,521.6	1,521.6	4.7	4.7	-152.49	-2.1	-120.1	120.2	111.2	8.95	13.423		
1,600.0	1,600.0	1,600.0	1,600.0	4.8	4.8	-152.57	-1.6	-121.7	123.2	114.0	9.23	13.351 SF		
1,615.0	1,615.0	1,612.9	1,612.8	4.9	4.9	-152.60	-1.4	-122.1	124.3	115.0	9.30	13.361		
1,700.0	1,699.8	1,694.0	1,693.9	5.1	5.0	-152.80	-0.1	-126.3	132.7	123.0	9.73	13.640		
1,710.0	1,709.8	1,703.5	1,703.3	5.1	5.0	-152.83	0.1	-126.9	134.0	124.2	9.78	13.701		
1,800.0	1,799.5	1,788.4	1,787.9	5.3	5.2	-153.11	2.3	-133.8	148.4	138.1	10.24	14.482		
1,805.0	1,804.4	1,793.1	1,792.6	5.3	5.2	-153.12	2.5	-134.3	149.3	139.0	10.27	14.537		
1,900.0	1,898.7	1,881.2	1,880.0	5.6	5.5	-153.42	5.6	-144.1	170.1	159.3	10.77	15.789		
1,995.0	1,992.5	1,967.3	1,965.2	5.9	5.8	-153.68	9.5	-156.2	196.3	185.0	11.29	17.383		
2,000.0	1,997.5	1,971.8	1,969.6	5.9	5.8	-153.69	9.8	-156.9	197.8	186.5	11.32	17.476		
2,090.0	2,085.8	2,051.2	2,047.8	6.2	6.1	-153.87	14.1	-170.3	227.7	215.8	11.82	19.265		
2,100.0	2,095.6	2,059.8	2,056.3	6.3	6.1	-153.88	14.6	-171.9	231.3	219.4	11.87	19.478		
2,185.0	2,178.5	2,132.4	2,127.3	6.6	6.3	-153.98	19.2	-186.2	264.1	251.7	12.35	21.383		
2,200.1	2,193.2	2,145.1	2,139.6	6.6	6.4	-153.99	20.0	-188.8	270.3	257.9	12.44	21.739		
2,280.0	2,270.7	2,212.2	2,204.9	6.9	6.6	-154.27	24.8	-203.8	304.4	291.6	12.85	23.696		
2,300.0	2,290.1	2,230.3	2,222.4	6.9	6.7	-154.32	26.2	-208.0	313.1	300.1	12.96	24.166		
2,375.0	2,362.9	2,297.8	2,288.0	7.2	6.9	-154.50	31.2	-223.5	345.6	332.2	13.37	25.842		
2,400.0	2,387.1	2,320.4	2,309.9	7.3	7.0	-154.55	32.8	-228.7	356.4	342.9	13.52	26.372		
2,470.0	2,455.0	2,383.4	2,371.1	7.5	7.2	-154.68	37.5	-243.3	386.8	372.9	13.93	27.773		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #710H - OWB - PWP1													Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8487-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Rule Assigned: Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
2,500.0	2,484.1	2,410.5	2,397.3	7.6	7.3	-154.73	39.5	-249.5	399.8	385.7	14.11	28.344		
2,565.0	2,547.2	2,469.0	2,454.1	7.8	7.5	-154.83	43.8	-263.0	428.0	413.5	14.50	29.508		
2,600.0	2,581.2	2,500.6	2,484.7	8.0	7.6	-154.88	46.2	-270.2	443.2	428.4	14.72	30.106		
2,660.0	2,639.4	2,554.6	2,537.2	8.2	7.8	-154.95	50.2	-282.7	469.2	454.1	15.10	31.067		
2,700.0	2,678.2	2,590.7	2,572.1	8.3	7.9	-154.99	52.8	-291.0	486.5	471.2	15.36	31.679		
2,755.0	2,731.6	2,640.2	2,620.2	8.6	8.1	-155.05	56.5	-302.4	510.4	494.6	15.72	32.468		
2,800.0	2,775.2	2,680.8	2,659.6	8.7	8.3	-155.09	59.5	-311.7	529.9	513.9	16.02	33.085		
2,850.0	2,823.7	2,725.8	2,703.3	8.9	8.4	-155.14	62.8	-322.1	551.6	535.2	16.35	33.730		
2,900.0	2,872.3	2,770.9	2,747.0	9.1	8.6	-155.18	66.2	-332.5	573.2	556.5	16.69	34.344		
2,945.0	2,915.9	2,811.5	2,786.4	9.3	8.8	-155.21	69.2	-341.8	592.8	575.8	17.00	34.866		
3,000.0	2,969.3	2,861.0	2,834.4	9.5	9.0	-155.25	72.8	-353.2	616.6	599.2	17.38	35.473		
3,040.0	3,008.1	2,897.1	2,869.4	9.7	9.1	-155.28	75.5	-361.5	633.9	616.3	17.66	35.892		
3,100.0	3,066.3	2,951.1	2,921.9	9.9	9.3	-155.31	79.5	-374.0	660.0	641.9	18.09	36.489		
3,135.0	3,100.3	2,982.7	2,952.5	10.1	9.4	-155.34	81.8	-381.2	675.1	656.8	18.34	36.819		
3,200.0	3,163.3	3,041.2	3,009.3	10.4	9.7	-155.37	86.2	-394.7	703.3	684.5	18.80	37.404		
3,230.0	3,192.4	3,068.3	3,035.5	10.5	9.8	-155.39	88.2	-400.9	716.3	697.3	19.02	37.659		
3,300.0	3,260.4	3,131.3	3,096.7	10.8	10.1	-155.42	92.8	-415.5	746.7	727.2	19.53	38.230		
3,325.0	3,284.6	3,153.9	3,118.6	10.9	10.2	-155.43	94.5	-420.7	757.5	737.8	19.72	38.423		
3,400.0	3,357.4	3,221.4	3,184.2	11.2	10.4	-155.46	99.5	-436.2	790.1	769.8	20.27	38.978		
3,420.0	3,376.8	3,239.5	3,201.7	11.3	10.5	-155.47	100.8	-440.4	798.7	778.3	20.42	39.118		
3,500.0	3,454.4	3,311.5	3,271.6	11.7	10.8	-155.50	106.2	-457.0	833.4	812.4	21.02	39.657		
3,515.0	3,469.0	3,325.1	3,284.7	11.7	10.9	-155.51	107.2	-460.1	839.9	818.8	21.13	39.753		
3,600.0	3,551.5	3,401.7	3,359.0	12.1	11.2	-155.54	112.8	-477.7	876.8	855.0	21.77	40.275		
3,610.0	3,561.2	3,410.7	3,367.8	12.1	11.3	-155.54	113.5	-479.8	881.1	859.3	21.85	40.333		
3,700.0	3,648.5	3,491.8	3,446.5	12.5	11.6	-155.57	119.5	-498.5	920.2	897.6	22.53	40.838		
3,705.0	3,653.3	3,496.3	3,450.8	12.6	11.6	-155.57	119.8	-499.5	922.3	899.8	22.57	40.865		
3,800.0	3,745.5	3,581.9	3,533.9	13.0	12.0	-155.60	126.2	-519.2	963.5	940.2	23.30	41.353		
3,895.0	3,837.7	3,667.5	3,617.0	13.4	12.4	-155.62	132.5	-538.9	1,004.7	980.7	24.03	41.802		
3,900.0	3,842.5	3,672.0	3,621.3	13.4	12.4	-155.62	132.8	-540.0	1,006.9	982.8	24.07	41.825		
3,990.0	3,929.9	3,753.1	3,700.0	13.8	12.8	-155.65	138.8	-558.6	1,045.9	1,021.1	24.77	42.217		
4,000.0	3,939.6	3,762.1	3,708.8	13.9	12.8	-155.65	139.5	-560.7	1,050.3	1,025.4	24.85	42.259		
4,085.0	4,022.0	3,838.7	3,783.1	14.3	13.1	-155.67	145.2	-578.3	1,087.1	1,061.6	25.52	42.600		
4,100.0	4,036.6	3,852.2	3,796.2	14.3	13.2	-155.67	146.2	-581.4	1,093.6	1,068.0	25.64	42.658		
4,180.0	4,114.2	3,924.3	3,866.1	14.7	13.5	-155.69	151.5	-598.0	1,128.3	1,102.0	26.27	42.955		
4,200.0	4,133.6	3,942.3	3,883.6	14.8	13.6	-155.69	152.8	-602.2	1,137.0	1,110.6	26.43	43.027		
4,275.0	4,206.4	4,009.9	3,949.2	15.2	13.9	-155.71	157.8	-617.8	1,169.5	1,142.5	27.02	43.284		
4,300.0	4,230.7	4,032.4	3,971.1	15.3	14.0	-155.71	159.5	-622.9	1,180.4	1,153.1	27.22	43.367		
4,370.0	4,298.6	4,095.5	4,032.3	15.6	14.3	-155.72	164.2	-637.5	1,210.7	1,182.9	27.77	43.591		
4,400.0	4,327.7	4,122.5	4,058.5	15.7	14.4	-155.73	166.2	-643.7	1,223.7	1,195.7	28.01	43.683		
4,465.0	4,390.8	4,181.1	4,115.3	16.0	14.7	-155.74	170.5	-657.2	1,251.9	1,223.4	28.53	43.875		
4,500.0	4,424.7	4,212.6	4,145.9	16.2	14.9	-155.75	172.8	-664.4	1,267.1	1,238.3	28.81	43.976		
4,560.0	4,482.9	4,266.7	4,198.4	16.5	15.1	-155.75	176.8	-676.9	1,293.1	1,263.8	29.29	44.141		
4,600.0	4,521.7	4,302.7	4,233.3	16.7	15.3	-155.76	179.5	-685.2	1,310.5	1,280.8	29.62	44.248		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation	Warning
Measured	Vertical	Measured	Vertical	Reference	Offset	Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor	
Depth	Depth	Depth	Depth	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
4,465.0	4,390.8	4,716.9	4,635.3	16.0	17.2	20.87	508.7	1,823.7	1,312.6	1,282.1	30.55	42.970	
4,500.0	4,424.7	4,748.6	4,666.0	16.2	17.3	20.81	511.6	1,816.7	1,297.8	1,266.9	30.83	42.100	
4,560.0	4,482.9	4,802.9	4,718.6	16.5	17.6	20.71	516.6	1,804.5	1,272.3	1,241.0	31.30	40.644	
4,600.0	4,521.7	4,839.1	4,753.7	16.7	17.8	20.63	520.0	1,796.4	1,255.3	1,223.7	31.62	39.698	
4,655.0	4,575.1	4,888.8	4,802.0	16.9	18.0	20.53	524.6	1,785.3	1,231.9	1,199.9	32.06	38.427	
4,700.0	4,618.8	4,929.5	4,841.5	17.1	18.2	20.44	528.3	1,776.2	1,212.8	1,180.4	32.42	37.412	
4,750.0	4,667.3	4,974.8	4,885.4	17.4	18.4	20.34	532.5	1,766.1	1,191.6	1,158.8	32.82	36.310	
4,800.0	4,715.8	5,020.0	4,929.3	17.6	18.6	20.23	536.7	1,756.0	1,170.4	1,137.2	33.22	35.234	
4,845.0	4,759.5	5,060.7	4,968.8	17.8	18.8	20.13	540.5	1,746.9	1,151.3	1,117.7	33.57	34.297	
4,853.6	4,767.8	5,068.5	4,976.4	17.8	18.8	20.11	541.2	1,745.1	1,147.6	1,114.0	33.64	34.120	
4,900.0	4,812.9	5,110.6	5,017.2	18.0	19.0	19.85	545.1	1,735.7	1,128.3	1,094.3	34.00	33.188	
4,940.0	4,851.9	5,147.1	5,052.7	18.2	19.2	19.62	548.5	1,727.6	1,112.1	1,077.8	34.32	32.402	
5,000.0	4,910.7	5,202.3	5,106.2	18.5	19.5	19.26	553.6	1,715.2	1,088.8	1,054.0	34.81	31.275	
5,035.0	4,945.1	5,234.7	5,137.6	18.7	19.6	19.04	556.6	1,708.0	1,075.7	1,040.6	35.09	30.651	
5,100.0	5,009.2	5,295.2	5,196.3	19.0	19.9	18.61	562.1	1,694.5	1,052.3	1,016.7	35.62	29.545	
5,130.0	5,038.8	5,323.2	5,223.5	19.1	20.1	18.41	564.7	1,688.2	1,042.0	1,006.2	35.86	29.062	
5,200.0	5,108.2	5,389.1	5,287.4	19.4	20.4	17.90	570.8	1,673.5	1,019.1	982.7	36.41	27.989	
5,225.0	5,133.0	5,412.7	5,310.4	19.5	20.5	17.72	573.0	1,668.2	1,011.2	974.6	36.60	27.628	
5,300.0	5,207.6	5,483.9	5,379.5	19.9	20.8	17.13	579.6	1,652.3	989.0	951.8	37.18	26.602	
5,320.0	5,227.5	5,503.0	5,398.0	19.9	20.9	16.97	581.4	1,648.0	983.4	946.1	37.33	26.346	
5,400.0	5,307.3	5,579.6	5,472.3	20.2	21.3	16.29	588.4	1,630.9	962.3	924.4	37.91	25.380	
5,415.0	5,322.3	5,594.1	5,486.3	20.3	21.3	16.16	589.8	1,627.7	958.6	920.5	38.02	25.214	
5,500.0	5,407.3	5,676.1	5,565.9	20.6	21.7	15.38	597.4	1,609.3	938.9	900.3	38.60	24.327	
5,510.0	5,417.3	5,685.7	5,575.3	20.6	21.8	15.29	598.3	1,607.2	936.8	898.1	38.65	24.240	
5,553.7	5,461.0	5,728.1	5,616.4	20.6	22.0	76.36	602.2	1,597.7	927.8	888.9	38.86	23.875	
5,600.0	5,507.3	5,773.0	5,659.9	20.7	22.2	75.95	606.3	1,587.7	918.7	879.7	39.04	23.534	
5,605.0	5,512.3	5,777.9	5,664.7	20.7	22.2	75.91	606.8	1,586.6	917.7	878.7	39.06	23.497	
5,700.0	5,607.3	5,870.0	5,754.1	20.7	22.7	75.05	615.3	1,566.0	899.2	859.7	39.43	22.804	
5,795.0	5,702.3	5,962.2	5,843.5	20.7	23.1	74.15	623.8	1,545.4	880.8	841.0	39.79	22.136	
5,800.0	5,707.3	5,967.1	5,848.2	20.7	23.1	74.10	624.3	1,544.3	879.9	840.0	39.81	22.101	
5,890.0	5,797.3	6,054.4	5,933.0	20.8	23.5	73.21	632.3	1,524.8	862.7	822.6	40.14	21.493	
5,900.0	5,807.3	6,064.1	5,942.4	20.8	23.6	73.11	633.2	1,522.6	860.8	820.6	40.18	21.426	
5,985.0	5,892.3	6,146.6	6,022.4	20.8	24.0	72.24	640.9	1,504.2	844.8	804.3	40.47	20.874	
6,000.0	5,907.3	6,161.1	6,036.5	20.8	24.1	72.08	642.2	1,500.9	842.0	801.5	40.52	20.779	
6,080.0	5,987.3	6,235.1	6,108.3	20.9	24.4	71.27	649.0	1,484.4	827.2	786.4	40.79	20.278	
6,100.0	6,007.3	6,251.0	6,123.8	20.9	24.5	71.09	650.4	1,481.0	823.7	782.8	40.87	20.153	
6,175.0	6,082.3	6,311.2	6,182.5	20.9	24.8	70.47	655.5	1,468.7	811.2	770.0	41.14	19.715	
6,200.0	6,107.3	6,331.4	6,202.3	20.9	24.9	70.27	657.1	1,464.8	807.3	766.1	41.23	19.579	
6,270.0	6,177.3	6,388.2	6,258.0	20.9	25.1	69.73	661.3	1,454.7	797.2	755.7	41.48	19.221	
6,300.0	6,207.3	6,412.7	6,282.1	21.0	25.3	69.51	663.0	1,450.6	793.2	751.7	41.57	19.080	
6,365.0	6,272.3	6,466.0	6,334.7	21.0	25.5	69.07	666.4	1,442.4	785.3	743.5	41.78	18.797	
6,400.0	6,307.3	6,500.0	6,368.3	21.0	25.7	68.81	668.4	1,437.7	781.4	739.5	41.88	18.658	
6,460.0	6,367.3	6,544.5	6,412.3	21.0	25.9	68.49	670.7	1,432.0	775.4	733.3	42.06	18.436	
6,500.0	6,407.3	6,577.7	6,445.3	21.0	26.0	68.28	672.3	1,428.2	771.8	729.6	42.17	18.302	
6,555.0	6,462.3	6,623.6	6,490.9	21.1	26.2	68.02	674.2	1,423.5	767.4	725.1	42.32	18.135	
6,600.0	6,507.3	6,661.2	6,528.3	21.1	26.3	67.83	675.6	1,420.2	764.3	721.9	42.43	18.013	
6,650.0	6,557.3	6,700.0	6,567.0	21.1	26.5	67.65	676.8	1,417.2	761.4	718.9	42.56	17.892	
6,700.0	6,607.3	6,745.0	6,611.9	21.1	26.7	67.49	678.0	1,414.3	759.0	716.3	42.67	17.787	
6,745.0	6,652.3	6,782.9	6,649.7	21.1	26.8	67.38	678.8	1,412.5	757.3	714.5	42.78	17.704	
6,800.0	6,707.3	6,829.2	6,696.0	21.2	27.0	67.28	679.5	1,410.8	755.8	712.9	42.89	17.622	
6,840.0	6,747.3	6,862.9	6,729.7	21.2	27.1	67.24	679.8	1,410.0	755.1	712.1	42.96	17.575	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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						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	
6,900.0	6,807.3	6,913.5	6,780.3	21.2	27.2	67.21	680.0	1,409.5	754.6	711.6	43.06	17.525		
6,913.9	6,821.1	6,926.5	6,793.3	21.2	27.2	67.21	680.0	1,409.5	754.6	711.5	43.07	17.520		
6,935.0	6,842.3	6,947.7	6,814.5	21.2	27.2	67.21	680.0	1,409.5	754.6	711.5	43.09	17.514		
7,000.0	6,907.3	7,012.7	6,879.5	21.3	27.2	67.21	680.0	1,409.5	754.6	711.5	43.14	17.493		
7,030.0	6,937.3	7,042.7	6,909.5	21.3	27.2	67.21	680.0	1,409.5	754.6	711.4	43.16	17.483		
7,100.0	7,007.3	7,112.7	6,979.5	21.3	27.2	67.21	680.0	1,409.5	754.6	711.4	43.22	17.459		
7,125.0	7,032.3	7,137.7	7,004.5	21.3	27.2	67.21	680.0	1,409.5	754.6	711.4	43.24	17.450		
7,200.0	7,107.3	7,212.7	7,079.5	21.3	27.3	67.21	680.0	1,409.5	754.6	711.3	43.31	17.424		
7,220.0	7,127.3	7,232.7	7,099.5	21.4	27.3	67.21	680.0	1,409.5	754.6	711.3	43.32	17.418		
7,300.0	7,207.3	7,312.7	7,179.5	21.4	27.3	67.21	680.0	1,409.5	754.6	711.2	43.39	17.390		
7,315.0	7,222.3	7,327.7	7,194.5	21.4	27.3	67.21	680.0	1,409.5	754.6	711.2	43.41	17.385		
7,400.0	7,307.3	7,412.7	7,279.5	21.4	27.3	67.21	680.0	1,409.5	754.6	711.1	43.48	17.356		
7,410.0	7,317.3	7,422.7	7,289.5	21.4	27.3	67.21	680.0	1,409.5	754.6	711.1	43.49	17.352		
7,500.0	7,407.3	7,512.7	7,379.5	21.5	27.4	67.21	680.0	1,409.5	754.6	711.0	43.57	17.321		
7,505.0	7,412.3	7,517.7	7,384.5	21.5	27.4	67.21	680.0	1,409.5	754.6	711.0	43.57	17.319		
7,600.0	7,507.3	7,612.7	7,479.5	21.5	27.4	67.21	680.0	1,409.5	754.6	711.0	43.65	17.287		
7,695.0	7,602.3	7,707.7	7,574.5	21.6	27.4	67.21	680.0	1,409.5	754.6	710.9	43.74	17.254		
7,700.0	7,607.3	7,712.7	7,579.5	21.6	27.4	67.21	680.0	1,409.5	754.6	710.9	43.74	17.252		
7,790.0	7,697.3	7,802.7	7,669.5	21.6	27.5	67.21	680.0	1,409.5	754.6	710.8	43.82	17.221		
7,800.0	7,707.3	7,812.7	7,679.5	21.6	27.5	67.21	680.0	1,409.5	754.6	710.8	43.83	17.218		
7,885.0	7,792.3	7,897.7	7,764.5	21.7	27.5	67.21	680.0	1,409.5	754.6	710.7	43.90	17.188		
7,900.0	7,807.3	7,912.7	7,779.5	21.7	27.5	67.21	680.0	1,409.5	754.6	710.7	43.92	17.183		
7,980.0	7,887.3	7,992.7	7,859.5	21.7	27.5	67.21	680.0	1,409.5	754.6	710.6	43.99	17.155		
8,000.0	7,907.3	8,012.7	7,879.5	21.7	27.5	67.21	680.0	1,409.5	754.6	710.6	44.01	17.148		
8,075.0	7,982.3	8,087.7	7,954.5	21.8	27.6	67.21	680.0	1,409.5	754.6	710.5	44.07	17.122		
8,100.0	8,007.3	8,112.7	7,979.5	21.8	27.6	67.21	680.0	1,409.5	754.6	710.5	44.09	17.114		
8,170.0	8,077.3	8,182.7	8,049.5	21.8	27.6	67.21	680.0	1,409.5	754.6	710.5	44.16	17.089		
8,200.0	8,107.3	8,212.7	8,079.5	21.8	27.6	67.21	680.0	1,409.5	754.6	710.4	44.18	17.079		
8,265.0	8,172.3	8,277.7	8,144.5	21.8	27.6	67.21	680.0	1,409.5	754.6	710.4	44.24	17.056		
8,300.0	8,207.3	8,312.7	8,179.5	21.9	27.6	67.21	680.0	1,409.5	754.6	710.3	44.27	17.044		
8,360.0	8,267.3	8,372.7	8,239.5	21.9	27.7	67.21	680.0	1,409.5	754.6	710.3	44.33	17.023		
8,400.0	8,307.3	8,412.7	8,279.5	21.9	27.7	67.21	680.0	1,409.5	754.6	710.2	44.36	17.009		
8,455.0	8,362.3	8,467.7	8,334.5	21.9	27.7	67.21	680.0	1,409.5	754.6	710.2	44.41	16.992		
8,485.8	8,393.0	8,498.5	8,365.2	21.9	27.7	67.21	680.0	1,409.5	754.6	710.2	44.44	16.982 CC, ES		
8,500.0	8,407.3	8,512.7	8,379.5	21.9	27.7	-113.30	680.0	1,409.5	754.7	710.2	44.44	16.980		
8,550.0	8,457.1	8,562.5	8,429.3	22.0	27.7	-113.42	680.0	1,409.5	756.0	711.6	44.44	17.012		
8,600.0	8,506.5	8,611.9	8,478.7	22.0	27.7	-113.66	680.0	1,409.5	759.2	714.8	44.39	17.102		
8,645.0	8,550.2	8,655.6	8,522.4	22.0	27.8	-113.97	680.0	1,409.5	763.6	719.3	44.30	17.235		
8,650.0	8,555.0	8,660.4	8,527.2	22.0	27.8	-114.01	680.0	1,409.5	764.2	719.9	44.29	17.253		
8,700.0	8,602.3	8,707.7	8,574.5	22.0	27.8	-114.42	680.0	1,409.5	771.1	727.0	44.14	17.468		
8,740.0	8,639.0	8,744.4	8,611.2	22.0	27.8	-114.76	680.0	1,409.5	778.2	734.2	43.99	17.689		
8,750.0	8,648.0	8,753.4	8,620.2	22.1	27.8	-114.84	680.0	1,409.5	780.2	736.3	43.95	17.751		
8,800.0	8,691.7	8,797.2	8,663.9	22.1	27.8	-115.22	680.0	1,409.5	791.6	747.9	43.72	18.107		
8,835.0	8,721.0	8,826.5	8,693.2	22.1	27.8	-115.41	680.0	1,409.5	801.0	757.5	43.53	18.401		
8,850.0	8,733.2	8,838.6	8,705.4	22.1	27.8	-115.47	680.0	1,409.5	805.5	762.0	43.45	18.539		
8,900.0	8,772.1	8,877.5	8,744.3	22.1	27.8	-115.55	680.0	1,409.5	821.9	778.8	43.14	19.050		
8,930.0	8,794.1	8,899.5	8,766.3	22.2	27.8	-115.47	680.0	1,409.5	833.1	790.1	42.95	19.396		
8,950.0	8,808.1	8,913.5	8,780.3	22.2	27.8	-115.35	680.0	1,409.5	841.0	798.2	42.82	19.644		
9,000.0	8,841.0	8,946.4	8,813.2	22.2	27.9	-114.82	680.0	1,409.5	863.0	820.5	42.47	20.319		
9,025.0	8,856.1	8,961.5	8,828.3	22.2	27.9	-114.40	680.0	1,409.5	874.9	832.6	42.29	20.688		
9,050.0	8,870.4	8,975.8	8,842.6	22.2	27.9	-113.87	680.0	1,409.5	887.6	845.5	42.11	21.076		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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		Distance		Minimum Separation		Separation	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Factor		
9,100.0	8,896.2	9,001.6	8,868.4	22.3	27.9	-112.40	680.0	1,409.5	915.0	873.2	41.76	21.910	
9,120.0	8,905.5	9,010.9	8,877.7	22.3	27.9	-111.66	680.0	1,409.5	926.6	885.0	41.62	22.265	
9,150.0	8,918.2	9,023.6	8,890.4	22.3	27.9	-110.34	680.0	1,409.5	944.9	903.5	41.41	22.818	
9,200.0	8,936.1	9,041.6	8,908.3	22.4	27.9	-107.57	680.0	1,409.5	977.2	936.1	41.07	23.791	
9,215.0	8,940.7	9,046.2	8,912.9	22.4	27.9	-106.59	680.0	1,409.5	987.3	946.3	40.98	24.094	
9,250.0	8,950.0	9,055.4	8,922.2	22.4	27.9	-104.02	680.0	1,409.5	1,011.6	970.9	40.76	24.822	
9,300.0	8,959.6	9,065.0	8,931.8	22.5	27.9	-99.60	680.0	1,409.5	1,047.9	1,007.4	40.46	25.902	
9,310.0	8,961.0	9,066.4	8,933.2	22.5	27.9	-98.61	680.0	1,409.5	1,055.3	1,014.9	40.40	26.123	
9,350.0	8,964.9	10,487.9	9,766.2	22.5	28.8	-140.03	-154.6	1,402.6	1,081.0	1,038.1	42.90	25.199	
9,385.1	8,966.0	10,523.0	9,766.2	22.6	28.9	-140.05	-189.7	1,402.3	1,080.1	1,037.1	43.03	25.102	
9,385.2	8,966.0	10,523.1	9,766.2	22.6	28.9	-140.05	-189.8	1,402.3	1,080.1	1,037.1	43.03	25.101	
9,400.0	8,966.0	10,537.9	9,766.2	22.6	28.9	-140.05	-204.6	1,402.2	1,080.1	1,037.0	43.08	25.071	
9,405.0	8,966.0	10,542.9	9,766.2	22.6	28.9	-140.05	-209.6	1,402.1	1,080.1	1,037.0	43.10	25.060	
9,500.0	8,966.1	10,637.9	9,766.3	22.7	29.1	-140.04	-304.6	1,401.4	1,080.1	1,036.7	43.48	24.844	
9,595.0	8,966.2	10,732.9	9,766.4	22.9	29.2	-140.04	-399.6	1,400.6	1,080.2	1,036.3	43.90	24.605	
9,600.0	8,966.2	10,737.9	9,766.4	22.9	29.2	-140.04	-404.6	1,400.5	1,080.2	1,036.2	43.92	24.592	
9,690.0	8,966.3	10,827.9	9,766.4	23.0	29.4	-140.04	-494.6	1,399.8	1,080.2	1,035.8	44.37	24.344	
9,700.0	8,966.3	10,837.9	9,766.4	23.0	29.4	-140.04	-504.6	1,399.7	1,080.2	1,035.8	44.42	24.316	
9,785.0	8,966.4	10,922.9	9,766.5	23.2	29.6	-140.04	-589.6	1,399.0	1,080.2	1,035.3	44.89	24.065	
9,800.0	8,966.4	10,937.9	9,766.5	23.2	29.7	-140.03	-604.6	1,398.9	1,080.2	1,035.2	44.97	24.020	
9,880.0	8,966.5	11,017.9	9,766.6	23.4	29.8	-140.03	-684.6	1,398.2	1,080.2	1,034.8	45.45	23.769	
9,900.0	8,966.5	11,037.9	9,766.6	23.4	29.9	-140.03	-704.6	1,398.0	1,080.2	1,034.6	45.57	23.706	
9,975.0	8,966.6	11,112.9	9,766.6	23.6	30.1	-140.03	-779.6	1,397.4	1,080.2	1,034.2	46.05	23.459	
10,000.0	8,966.6	11,137.9	9,766.7	23.7	30.1	-140.03	-804.6	1,397.2	1,080.2	1,034.0	46.21	23.376	
10,070.0	8,966.7	11,207.9	9,766.7	23.8	30.3	-140.03	-874.6	1,396.6	1,080.2	1,033.6	46.69	23.138	
10,100.0	8,966.7	11,237.9	9,766.7	23.9	30.4	-140.02	-904.6	1,396.4	1,080.2	1,033.3	46.90	23.035	
10,165.0	8,966.8	11,302.9	9,766.8	24.1	30.6	-140.02	-969.6	1,395.9	1,080.3	1,032.9	47.37	22.806	
10,200.0	8,966.8	11,337.9	9,766.8	24.2	30.7	-140.02	-1,004.6	1,395.6	1,080.3	1,032.6	47.62	22.683	
10,260.0	8,966.9	11,397.9	9,766.8	24.3	30.9	-140.02	-1,064.6	1,395.1	1,080.3	1,032.2	48.08	22.467	
10,300.0	8,966.9	11,437.9	9,766.9	24.4	31.0	-140.02	-1,104.6	1,394.7	1,080.3	1,031.9	48.39	22.323	
10,355.0	8,967.0	11,492.9	9,766.9	24.6	31.1	-140.02	-1,159.6	1,394.3	1,080.3	1,031.5	48.83	22.122	
10,400.0	8,967.0	11,537.9	9,766.9	24.7	31.3	-140.01	-1,204.6	1,393.9	1,080.3	1,031.1	49.20	21.958	
10,450.0	8,967.1	11,587.9	9,767.0	24.9	31.4	-140.01	-1,254.5	1,393.5	1,080.3	1,030.7	49.62	21.774	
10,500.0	8,967.1	11,637.9	9,767.0	25.1	31.6	-140.01	-1,304.5	1,393.1	1,080.3	1,030.3	50.04	21.590	
10,545.0	8,967.2	11,682.9	9,767.1	25.2	31.7	-140.01	-1,349.5	1,392.7	1,080.3	1,029.9	50.43	21.422	
10,600.0	8,967.2	11,737.9	9,767.1	25.4	31.9	-140.01	-1,404.5	1,392.3	1,080.3	1,029.4	50.91	21.219	
10,640.0	8,967.3	11,777.9	9,767.1	25.5	32.1	-140.01	-1,444.5	1,391.9	1,080.3	1,029.1	51.27	21.070	
10,700.0	8,967.3	11,837.9	9,767.2	25.7	32.3	-140.00	-1,504.5	1,391.4	1,080.3	1,028.5	51.82	20.848	
10,735.0	8,967.4	11,872.9	9,767.2	25.9	32.4	-140.00	-1,539.5	1,391.1	1,080.3	1,028.2	52.15	20.718	
10,800.0	8,967.4	11,937.9	9,767.2	26.1	32.6	-140.00	-1,604.5	1,390.6	1,080.4	1,027.6	52.76	20.478	
10,830.0	8,967.5	11,967.9	9,767.3	26.2	32.7	-140.00	-1,634.5	1,390.4	1,080.4	1,027.3	53.04	20.367	
10,900.0	8,967.5	12,037.9	9,767.3	26.5	33.0	-140.00	-1,704.5	1,389.8	1,080.4	1,026.6	53.72	20.110	
10,925.0	8,967.6	12,062.9	9,767.3	26.6	33.1	-140.00	-1,729.5	1,389.6	1,080.4	1,026.4	53.97	20.018	
11,000.0	8,967.6	12,137.9	9,767.4	26.9	33.4	-139.99	-1,804.5	1,389.0	1,080.4	1,025.7	54.71	19.746	
11,020.0	8,967.6	12,157.9	9,767.4	27.0	33.5	-139.99	-1,824.5	1,388.8	1,080.4	1,025.5	54.92	19.673	
11,100.0	8,967.7	12,237.9	9,767.5	27.3	33.8	-139.99	-1,904.5	1,388.1	1,080.4	1,024.7	55.73	19.386	
11,115.0	8,967.7	12,252.9	9,767.5	27.4	33.8	-139.99	-1,919.5	1,388.0	1,080.4	1,024.5	55.89	19.332	
11,200.0	8,967.8	12,337.9	9,767.5	27.7	34.2	-139.99	-2,004.5	1,387.3	1,080.4	1,023.6	56.77	19.030	
11,210.0	8,967.8	12,347.9	9,767.5	27.8	34.2	-139.99	-2,014.5	1,387.2	1,080.4	1,023.5	56.88	18.995	
11,300.0	8,967.9	12,437.9	9,767.6	28.2	34.6	-139.98	-2,104.5	1,386.5	1,080.4	1,022.6	57.84	18.680	
11,305.0	8,967.9	12,442.9	9,767.6	28.2	34.6	-139.98	-2,109.5	1,386.4	1,080.4	1,022.5	57.89	18.663	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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		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
11,400.0	8,968.0	12,537.9	9,767.7	28.6	35.0	-139.98	-2,204.5	1,385.6	1,080.5	1,021.5	58.92	18.336
11,495.0	8,968.1	12,632.9	9,767.7	29.1	35.5	-139.98	-2,299.5	1,384.9	1,080.5	1,020.5	59.98	18.015
11,500.0	8,968.1	12,637.9	9,767.7	29.1	35.5	-139.98	-2,304.5	1,384.8	1,080.5	1,020.4	60.03	17.999
11,590.0	8,968.2	12,727.9	9,767.8	29.6	35.9	-139.97	-2,394.5	1,384.1	1,080.5	1,019.4	61.04	17.700
11,600.0	8,968.2	12,737.9	9,767.8	29.6	35.9	-139.97	-2,404.5	1,384.0	1,080.5	1,019.3	61.16	17.668
11,685.0	8,968.3	12,822.9	9,767.9	30.0	36.3	-139.97	-2,489.5	1,383.3	1,080.5	1,018.4	62.13	17.392
11,700.0	8,968.3	12,837.9	9,767.9	30.1	36.4	-139.97	-2,504.5	1,383.2	1,080.5	1,018.2	62.30	17.344
11,780.0	8,968.4	12,917.9	9,767.9	30.5	36.8	-139.97	-2,584.5	1,382.5	1,080.5	1,017.3	63.23	17.089
11,800.0	8,968.4	12,937.9	9,768.0	30.6	36.9	-139.97	-2,604.5	1,382.3	1,080.5	1,017.1	63.46	17.027
11,875.0	8,968.5	13,012.9	9,768.0	31.0	37.2	-139.97	-2,679.5	1,381.7	1,080.5	1,016.2	64.34	16.794
11,900.0	8,968.5	13,037.9	9,768.0	31.1	37.4	-139.96	-2,704.5	1,381.5	1,080.5	1,015.9	64.64	16.717
11,970.0	8,968.6	13,107.9	9,768.1	31.5	37.7	-139.96	-2,774.5	1,380.9	1,080.5	1,015.1	65.47	16.505
12,000.0	8,968.6	13,137.9	9,768.1	31.7	37.9	-139.96	-2,804.5	1,380.7	1,080.5	1,014.7	65.83	16.415
12,065.0	8,968.7	13,202.9	9,768.2	32.0	38.2	-139.96	-2,869.5	1,380.1	1,080.6	1,013.9	66.61	16.222
12,100.0	8,968.7	13,237.9	9,768.2	32.2	38.4	-139.96	-2,904.5	1,379.9	1,080.6	1,013.5	67.03	16.120
12,160.0	8,968.8	13,297.9	9,768.2	32.5	38.7	-139.96	-2,964.5	1,379.4	1,080.6	1,012.8	67.76	15.946
12,200.0	8,968.8	13,337.9	9,768.3	32.8	38.9	-139.95	-3,004.5	1,379.0	1,080.6	1,012.3	68.25	15.832
12,255.0	8,968.9	13,392.9	9,768.3	33.1	39.1	-139.95	-3,059.5	1,378.6	1,080.6	1,011.7	68.93	15.676
12,300.0	8,968.9	13,437.9	9,768.3	33.3	39.4	-139.95	-3,104.5	1,378.2	1,080.6	1,011.1	69.49	15.551
12,350.0	8,969.0	13,487.9	9,768.4	33.6	39.6	-139.95	-3,154.5	1,377.8	1,080.6	1,010.5	70.11	15.413
12,400.0	8,969.0	13,537.9	9,768.4	33.9	39.9	-139.95	-3,204.5	1,377.4	1,080.6	1,009.9	70.73	15.278
12,445.0	8,969.1	13,582.9	9,768.4	34.2	40.1	-139.95	-3,249.5	1,377.0	1,080.6	1,009.3	71.30	15.157
12,500.0	8,969.1	13,637.9	9,768.5	34.5	40.4	-139.94	-3,304.5	1,376.5	1,080.6	1,008.6	71.99	15.011
12,540.0	8,969.2	13,677.9	9,768.5	34.7	40.7	-139.94	-3,344.5	1,376.2	1,080.6	1,008.1	72.50	14.906
12,600.0	8,969.2	13,737.9	9,768.5	35.1	41.0	-139.94	-3,404.5	1,375.7	1,080.6	1,007.4	73.26	14.751
12,635.0	8,969.3	13,772.9	9,768.6	35.3	41.2	-139.94	-3,439.5	1,375.4	1,080.6	1,006.9	73.70	14.662
12,700.0	8,969.3	13,837.9	9,768.6	35.6	41.5	-139.94	-3,504.5	1,374.9	1,080.7	1,006.1	74.54	14.499
12,730.0	8,969.4	13,867.9	9,768.6	35.8	41.7	-139.94	-3,534.5	1,374.6	1,080.7	1,005.7	74.92	14.424
12,800.0	8,969.4	13,937.9	9,768.7	36.3	42.1	-139.93	-3,604.5	1,374.1	1,080.7	1,004.9	75.82	14.253
12,825.0	8,969.5	13,962.9	9,768.7	36.4	42.2	-139.93	-3,629.5	1,373.9	1,080.7	1,004.5	76.15	14.192
12,900.0	8,969.5	14,037.9	9,768.8	36.9	42.6	-139.93	-3,704.5	1,373.2	1,080.7	1,003.6	77.12	14.013
12,920.0	8,969.6	14,057.9	9,768.8	37.0	42.8	-139.93	-3,724.5	1,373.1	1,080.7	1,003.3	77.38	13.966
13,000.0	8,969.6	14,137.9	9,768.8	37.5	43.2	-139.93	-3,804.5	1,372.4	1,080.7	1,002.3	78.43	13.780
13,015.0	8,969.7	14,152.9	9,768.8	37.6	43.3	-139.93	-3,819.5	1,372.3	1,080.7	1,002.1	78.62	13.745
13,100.0	8,969.7	14,237.9	9,768.9	38.1	43.8	-139.92	-3,904.5	1,371.6	1,080.7	1,001.0	79.74	13.553
13,110.0	8,969.8	14,247.9	9,768.9	38.2	43.8	-139.92	-3,914.5	1,371.5	1,080.7	1,000.8	79.88	13.530
13,200.0	8,969.8	14,337.9	9,769.0	38.7	44.4	-139.92	-4,004.5	1,370.8	1,080.7	999.7	81.07	13.331
13,205.0	8,969.8	14,342.9	9,769.0	38.7	44.4	-139.92	-4,009.5	1,370.7	1,080.7	999.6	81.13	13.321
13,300.0	8,969.9	14,437.9	9,769.0	39.3	45.0	-139.92	-4,104.5	1,369.9	1,080.8	998.4	82.40	13.116
13,395.0	8,970.0	14,532.9	9,769.1	40.0	45.5	-139.91	-4,199.4	1,369.1	1,080.8	997.1	83.67	12.917
13,400.0	8,970.0	14,537.9	9,769.1	40.0	45.6	-139.91	-4,204.4	1,369.1	1,080.8	997.0	83.74	12.907
13,490.0	8,970.1	14,627.9	9,769.2	40.6	46.1	-139.91	-4,294.4	1,368.4	1,080.8	995.8	84.95	12.723
13,500.0	8,970.1	14,637.9	9,769.2	40.6	46.1	-139.91	-4,304.4	1,368.3	1,080.8	995.7	85.08	12.703
13,585.0	8,970.2	14,722.9	9,769.3	41.2	46.7	-139.91	-4,389.4	1,367.6	1,080.8	994.6	86.23	12.534
13,600.0	8,970.2	14,737.9	9,769.3	41.3	46.8	-139.91	-4,404.4	1,367.5	1,080.8	994.4	86.43	12.504
13,680.0	8,970.3	14,817.9	9,769.3	41.8	47.2	-139.90	-4,484.4	1,366.8	1,080.8	993.3	87.52	12.349
13,700.0	8,970.3	14,837.9	9,769.3	41.9	47.4	-139.90	-4,504.4	1,366.6	1,080.8	993.0	87.79	12.311
13,775.0	8,970.4	14,912.9	9,769.4	42.4	47.8	-139.90	-4,579.4	1,366.0	1,080.8	992.0	88.82	12.169
13,800.0	8,970.4	14,937.9	9,769.4	42.6	48.0	-139.90	-4,604.4	1,365.8	1,080.8	991.7	89.16	12.123
13,870.0	8,970.5	15,007.9	9,769.5	43.0	48.4	-139.90	-4,674.4	1,365.2	1,080.8	990.7	90.12	11.994
13,900.0	8,970.5	15,037.9	9,769.5	43.2	48.6	-139.90	-4,704.4	1,365.0	1,080.9	990.3	90.53	11.939

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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:				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		
13,965.0	8,970.6	15,102.9	9,769.5	43.7	49.0	-139.90	-4,769.4	1,364.4	1,080.9	989.4	91.42	11.823		
14,000.0	8,970.6	15,137.9	9,769.6	43.9	49.2	-139.89	-4,804.4	1,364.1	1,080.9	989.0	91.91	11.761		
14,060.0	8,970.7	15,197.9	9,769.6	44.3	49.6	-139.89	-4,864.4	1,363.6	1,080.9	988.1	92.73	11.656		
14,100.0	8,970.7	15,237.9	9,769.6	44.6	49.8	-139.89	-4,904.4	1,363.3	1,080.9	987.6	93.29	11.587		
14,155.0	8,970.8	15,292.9	9,769.7	44.9	50.2	-139.89	-4,959.4	1,362.9	1,080.9	986.8	94.05	11.493		
14,200.0	8,970.8	15,337.9	9,769.7	45.2	50.5	-139.89	-5,004.4	1,362.5	1,080.9	986.2	94.67	11.417		
14,250.0	8,970.9	15,387.9	9,769.7	45.6	50.8	-139.89	-5,054.4	1,362.1	1,080.9	985.5	95.37	11.334		
14,300.0	8,971.0	15,437.9	9,769.8	45.9	51.1	-139.88	-5,104.4	1,361.7	1,080.9	984.8	96.07	11.252		
14,345.0	8,971.0	15,482.9	9,769.8	46.2	51.4	-139.88	-5,149.4	1,361.3	1,080.9	984.2	96.69	11.179		
14,400.0	8,971.1	15,537.9	9,769.8	46.6	51.7	-139.88	-5,204.4	1,360.8	1,080.9	983.5	97.46	11.091		
14,440.0	8,971.1	15,577.9	9,769.9	46.8	52.0	-139.88	-5,244.4	1,360.5	1,080.9	982.9	98.02	11.027		
14,500.0	8,971.2	15,637.9	9,769.9	47.2	52.4	-139.88	-5,304.4	1,360.0	1,080.9	982.1	98.86	10.934		
14,535.0	8,971.2	15,672.9	9,769.9	47.5	52.6	-139.88	-5,339.4	1,359.7	1,081.0	981.6	99.36	10.880		
14,600.0	8,971.3	15,737.9	9,770.0	47.9	53.0	-139.87	-5,404.4	1,359.2	1,081.0	980.7	100.27	10.781		
14,630.0	8,971.3	15,767.9	9,770.0	48.1	53.2	-139.87	-5,434.4	1,358.9	1,081.0	980.3	100.69	10.735		
14,700.0	8,971.4	15,837.9	9,770.1	48.6	53.7	-139.87	-5,504.4	1,358.4	1,081.0	979.3	101.68	10.631		
14,725.0	8,971.4	15,862.9	9,770.1	48.8	53.8	-139.87	-5,529.4	1,358.1	1,081.0	979.0	102.03	10.595		
14,800.0	8,971.5	15,937.9	9,770.1	49.3	54.3	-139.87	-5,604.4	1,357.5	1,081.0	977.9	103.09	10.486		
14,820.0	8,971.5	15,957.9	9,770.1	49.4	54.4	-139.87	-5,624.4	1,357.4	1,081.0	977.6	103.38	10.457		
14,900.0	8,971.6	16,037.9	9,770.2	50.0	55.0	-139.86	-5,704.4	1,356.7	1,081.0	976.5	104.51	10.344		
14,915.0	8,971.6	16,052.9	9,770.2	50.1	55.1	-139.86	-5,719.4	1,356.6	1,081.0	976.3	104.72	10.323		
15,000.0	8,971.7	16,137.9	9,770.3	50.7	55.6	-139.86	-5,804.4	1,355.9	1,081.0	975.1	105.93	10.205		
15,010.0	8,971.7	16,147.9	9,770.3	50.7	55.7	-139.86	-5,814.4	1,355.8	1,081.0	975.0	106.07	10.191		
15,100.0	8,971.8	16,237.9	9,770.3	51.4	56.3	-139.86	-5,904.4	1,355.0	1,081.0	973.7	107.35	10.070		
15,105.0	8,971.8	16,242.9	9,770.4	51.4	56.3	-139.86	-5,909.4	1,355.0	1,081.0	973.6	107.43	10.063		
15,200.0	8,971.9	16,337.9	9,770.4	52.1	56.9	-139.85	-6,004.4	1,354.2	1,081.1	972.3	108.78	9.938		
15,295.0	8,972.0	16,432.9	9,770.5	52.7	57.6	-139.85	-6,099.4	1,353.4	1,081.1	970.9	110.14	9.815		
15,300.0	8,972.0	16,437.9	9,770.5	52.8	57.6	-139.85	-6,104.4	1,353.4	1,081.1	970.9	110.21	9.809		
15,390.0	8,972.0	16,527.9	9,770.6	53.4	58.2	-139.85	-6,194.4	1,352.6	1,081.1	969.6	111.50	9.696		
15,400.0	8,972.1	16,537.9	9,770.6	53.5	58.3	-139.85	-6,204.4	1,352.6	1,081.1	969.4	111.65	9.683		
15,485.0	8,972.1	16,622.9	9,770.6	54.1	58.8	-139.84	-6,289.4	1,351.9	1,081.1	968.2	112.87	9.578		
15,500.0	8,972.2	16,637.9	9,770.6	54.2	58.9	-139.84	-6,304.4	1,351.7	1,081.1	968.0	113.08	9.560		
15,580.0	8,972.2	16,717.9	9,770.7	54.7	59.5	-139.84	-6,384.4	1,351.1	1,081.1	966.9	114.24	9.464		
15,600.0	8,972.3	16,737.9	9,770.7	54.9	59.6	-139.84	-6,404.4	1,350.9	1,081.1	966.6	114.53	9.440		
15,675.0	8,972.3	16,812.9	9,770.8	55.4	60.1	-139.84	-6,479.4	1,350.3	1,081.1	965.5	115.61	9.352		
15,700.0	8,972.4	16,837.9	9,770.8	55.6	60.3	-139.84	-6,504.4	1,350.1	1,081.1	965.2	115.97	9.323		
15,770.0	8,972.4	16,907.9	9,770.8	56.1	60.8	-139.83	-6,574.4	1,349.5	1,081.2	964.2	116.98	9.242		
15,800.0	8,972.5	16,937.9	9,770.9	56.3	61.0	-139.83	-6,604.4	1,349.3	1,081.2	963.7	117.41	9.208		
15,865.0	8,972.5	17,002.9	9,770.9	56.7	61.4	-139.83	-6,669.4	1,348.7	1,081.2	962.8	118.35	9.135		
15,900.0	8,972.6	17,037.9	9,770.9	57.0	61.6	-139.83	-6,704.4	1,348.4	1,081.2	962.3	118.86	9.096		
15,960.0	8,972.6	17,097.9	9,771.0	57.4	62.1	-139.83	-6,764.4	1,347.9	1,081.2	961.4	119.73	9.030		
16,000.0	8,972.7	17,137.9	9,771.0	57.7	62.3	-139.83	-6,804.4	1,347.6	1,081.2	960.9	120.31	8.986		
16,055.0	8,972.7	17,192.9	9,771.0	58.1	62.7	-139.83	-6,859.4	1,347.1	1,081.2	960.1	121.11	8.927		
16,100.0	8,972.8	17,237.9	9,771.1	58.4	63.0	-139.82	-6,904.4	1,346.8	1,081.2	959.4	121.77	8.879		
16,150.0	8,972.8	17,287.9	9,771.1	58.8	63.3	-139.82	-6,954.4	1,346.4	1,081.2	958.7	122.49	8.827		
16,200.0	8,972.9	17,337.9	9,771.1	59.1	63.7	-139.82	-7,004.4	1,345.9	1,081.2	958.0	123.22	8.775		
16,245.0	8,972.9	17,382.9	9,771.2	59.4	64.0	-139.82	-7,049.3	1,345.6	1,081.2	957.4	123.88	8.728		
16,300.0	8,973.0	17,437.9	9,771.2	59.8	64.4	-139.82	-7,104.3	1,345.1	1,081.2	956.6	124.68	8.672		
16,340.0	8,973.0	17,477.9	9,771.2	60.1	64.7	-139.82	-7,144.3	1,344.8	1,081.2	956.0	125.26	8.632		
16,400.0	8,973.1	17,537.9	9,771.3	60.5	65.1	-139.81	-7,204.3	1,344.3	1,081.3	955.1	126.14	8.572		
16,435.0	8,973.1	17,572.9	9,771.3	60.8	65.3	-139.81	-7,239.3	1,344.0	1,081.3	954.6	126.65	8.537		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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		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	
16,500.0	8,973.2	17,637.9	9,771.4	61.3	65.8	-139.81	-7,304.3	1,343.5	1,081.3	953.7	127.60	8.474	
16,530.0	8,973.2	17,667.9	9,771.4	61.5	66.0	-139.81	-7,334.3	1,343.2	1,081.3	953.2	128.04	8.445	
16,600.0	8,973.3	17,737.9	9,771.4	62.0	66.4	-139.81	-7,404.3	1,342.6	1,081.3	952.2	129.07	8.378	
16,625.0	8,973.3	17,762.9	9,771.5	62.1	66.6	-139.81	-7,429.3	1,342.4	1,081.3	951.9	129.43	8.354	
16,700.0	8,973.4	17,837.9	9,771.5	62.7	67.1	-139.80	-7,504.3	1,341.8	1,081.3	950.8	130.53	8.284	
16,720.0	8,973.4	17,857.9	9,771.5	62.8	67.3	-139.80	-7,524.3	1,341.6	1,081.3	950.5	130.82	8.265	
16,800.0	8,973.5	17,937.9	9,771.6	63.4	67.8	-139.80	-7,604.3	1,341.0	1,081.3	949.3	132.00	8.192	
16,815.0	8,973.5	17,952.9	9,771.6	63.5	67.9	-139.80	-7,619.3	1,340.9	1,081.3	949.1	132.22	8.178	
16,900.0	8,973.6	18,037.9	9,771.7	64.1	68.5	-139.80	-7,704.3	1,340.2	1,081.3	947.9	133.47	8.102	
16,910.0	8,973.6	18,047.9	9,771.7	64.2	68.6	-139.80	-7,714.3	1,340.1	1,081.3	947.7	133.62	8.093	
17,000.0	8,973.7	18,137.9	9,771.7	64.8	69.2	-139.79	-7,804.3	1,339.3	1,081.3	946.4	134.94	8.014	
17,005.0	8,973.7	18,142.9	9,771.7	64.9	69.3	-139.79	-7,809.3	1,339.3	1,081.4	946.3	135.01	8.009	
17,100.0	8,973.8	18,237.9	9,771.8	65.6	69.9	-139.79	-7,904.3	1,338.5	1,081.4	945.0	136.41	7.927	
17,195.0	8,973.9	18,332.9	9,771.9	66.3	70.6	-139.79	-7,999.3	1,337.7	1,081.4	943.6	137.81	7.847	
17,200.0	8,973.9	18,337.9	9,771.9	66.3	70.6	-139.79	-8,004.3	1,337.7	1,081.4	943.5	137.89	7.842	
17,290.0	8,974.0	18,427.9	9,771.9	66.9	71.3	-139.78	-8,094.3	1,336.9	1,081.4	942.2	139.22	7.768	
17,300.0	8,974.0	18,437.9	9,771.9	67.0	71.3	-139.78	-8,104.3	1,336.9	1,081.4	942.0	139.37	7.759	
17,385.0	8,974.1	18,522.9	9,772.0	67.6	71.9	-139.78	-8,189.3	1,336.2	1,081.4	940.8	140.62	7.690	
17,400.0	8,974.1	18,537.9	9,772.0	67.7	72.0	-139.78	-8,204.3	1,336.0	1,081.4	940.6	140.84	7.678	
17,480.0	8,974.2	18,617.9	9,772.1	68.3	72.6	-139.78	-8,284.3	1,335.4	1,081.4	939.4	142.03	7.614	
17,500.0	8,974.2	18,637.9	9,772.1	68.5	72.7	-139.78	-8,304.3	1,335.2	1,081.4	939.1	142.32	7.598	
17,575.0	8,974.2	18,712.9	9,772.1	69.0	73.3	-139.77	-8,379.3	1,334.6	1,081.4	938.0	143.43	7.540	
17,600.0	8,974.3	18,737.9	9,772.2	69.2	73.4	-139.77	-8,404.3	1,334.4	1,081.4	937.6	143.80	7.520	
17,670.0	8,974.3	18,807.9	9,772.2	69.7	73.9	-139.77	-8,474.3	1,333.8	1,081.5	936.6	144.84	7.466	
17,700.0	8,974.4	18,837.9	9,772.2	69.9	74.2	-139.77	-8,504.3	1,333.5	1,081.5	936.2	145.29	7.444	
17,765.0	8,974.4	18,902.9	9,772.3	70.4	74.6	-139.77	-8,569.3	1,333.0	1,081.5	935.2	146.25	7.395	
17,800.0	8,974.5	18,937.9	9,772.3	70.7	74.9	-139.77	-8,604.3	1,332.7	1,081.5	934.7	146.77	7.369	
17,860.0	8,974.5	18,997.9	9,772.3	71.1	75.3	-139.77	-8,664.3	1,332.2	1,081.5	933.8	147.66	7.324	
17,900.0	8,974.6	19,037.9	9,772.4	71.4	75.6	-139.76	-8,704.3	1,331.9	1,081.5	933.2	148.26	7.295	
17,955.0	8,974.6	19,092.9	9,772.4	71.8	76.0	-139.76	-8,759.3	1,331.4	1,081.5	932.4	149.07	7.255	
18,000.0	8,974.7	19,137.9	9,772.4	72.1	76.3	-139.76	-8,804.3	1,331.1	1,081.5	931.8	149.74	7.222	
18,050.0	8,974.7	19,187.9	9,772.5	72.5	76.6	-139.76	-8,854.3	1,330.7	1,081.5	931.0	150.49	7.187	
18,100.0	8,974.8	19,237.9	9,772.5	72.8	77.0	-139.76	-8,904.3	1,330.2	1,081.5	930.3	151.23	7.152	
18,145.0	8,974.8	19,282.9	9,772.6	73.2	77.3	-139.76	-8,949.3	1,329.9	1,081.5	929.6	151.90	7.120	
18,200.0	8,974.9	19,337.9	9,772.6	73.6	77.7	-139.75	-9,004.3	1,329.4	1,081.5	928.8	152.72	7.082	
18,240.0	8,974.9	19,377.9	9,772.6	73.9	78.0	-139.75	-9,044.3	1,329.1	1,081.6	928.2	153.32	7.054	
18,300.0	8,975.0	19,437.9	9,772.7	74.3	78.4	-139.75	-9,104.3	1,328.6	1,081.6	927.4	154.21	7.014	
18,335.0	8,975.0	19,472.9	9,772.7	74.6	78.7	-139.75	-9,139.3	1,328.3	1,081.6	926.8	154.73	6.990	
18,400.0	8,975.1	19,537.9	9,772.7	75.0	79.1	-139.75	-9,204.3	1,327.8	1,081.6	925.9	155.70	6.946	
18,430.0	8,975.1	19,567.9	9,772.8	75.3	79.4	-139.75	-9,234.3	1,327.5	1,081.6	925.4	156.15	6.927	
18,500.0	8,975.2	19,637.9	9,772.8	75.8	79.9	-139.74	-9,304.3	1,326.9	1,081.6	924.4	157.19	6.881	
18,525.0	8,975.2	19,662.9	9,772.8	76.0	80.0	-139.74	-9,329.3	1,326.7	1,081.6	924.0	157.57	6.864	
18,600.0	8,975.3	19,737.9	9,772.9	76.5	80.6	-139.74	-9,404.3	1,326.1	1,081.6	922.9	158.69	6.816	
18,620.0	8,975.3	19,757.9	9,772.9	76.7	80.7	-139.74	-9,424.3	1,325.9	1,081.6	922.6	158.99	6.803	
18,700.0	8,975.4	19,837.9	9,773.0	77.2	81.3	-139.74	-9,504.3	1,325.3	1,081.6	921.4	160.18	6.752	
18,715.0	8,975.4	19,852.9	9,773.0	77.4	81.4	-139.74	-9,519.3	1,325.2	1,081.6	921.2	160.41	6.743	
18,800.0	8,975.5	19,937.9	9,773.0	78.0	82.0	-139.73	-9,604.3	1,324.4	1,081.6	920.0	161.68	6.690	
18,810.0	8,975.5	19,947.9	9,773.0	78.0	82.1	-139.73	-9,614.3	1,324.4	1,081.6	919.8	161.83	6.684	
18,900.0	8,975.6	20,037.9	9,773.1	78.7	82.7	-139.73	-9,704.3	1,323.6	1,081.7	918.5	163.17	6.629	
18,905.0	8,975.6	20,042.9	9,773.1	78.7	82.8	-139.73	-9,709.3	1,323.6	1,081.7	918.4	163.25	6.626	
19,000.0	8,975.7	20,137.9	9,773.2	79.4	83.4	-139.73	-9,804.3	1,322.8	1,081.7	917.0	164.67	6.569	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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						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		
19,095.0	8,975.8	20,232.9	9,773.2	80.1	84.1	-139.72	-9,899.2	1,322.0	1,081.7	915.6	166.10	6.512		
19,100.0	8,975.8	20,237.9	9,773.2	80.2	84.2	-139.72	-9,904.2	1,322.0	1,081.7	915.5	166.17	6.510		
19,190.0	8,975.9	20,327.9	9,773.3	80.8	84.8	-139.72	-9,994.2	1,321.2	1,081.7	914.2	167.52	6.457		
19,200.0	8,975.9	20,337.9	9,773.3	80.9	84.9	-139.72	-10,004.2	1,321.1	1,081.7	914.0	167.67	6.451		
19,285.0	8,976.0	20,422.9	9,773.4	81.5	85.5	-139.72	-10,089.2	1,320.4	1,081.7	912.8	168.95	6.403		
19,300.0	8,976.0	20,437.9	9,773.4	81.7	85.6	-139.72	-10,104.2	1,320.3	1,081.7	912.6	169.17	6.394		
19,380.0	8,976.1	20,517.9	9,773.4	82.3	86.2	-139.71	-10,184.2	1,319.7	1,081.7	911.4	170.37	6.349		
19,400.0	8,976.1	20,537.9	9,773.5	82.4	86.3	-139.71	-10,204.2	1,319.5	1,081.7	911.1	170.67	6.338		
19,475.0	8,976.2	20,612.9	9,773.5	83.0	86.9	-139.71	-10,279.2	1,318.9	1,081.8	910.0	171.80	6.297		
19,500.0	8,976.2	20,637.9	9,773.5	83.1	87.1	-139.71	-10,304.2	1,318.7	1,081.8	909.6	172.17	6.283		
19,570.0	8,976.3	20,707.9	9,773.6	83.7	87.6	-139.71	-10,374.2	1,318.1	1,081.8	908.5	173.23	6.245		
19,600.0	8,976.3	20,737.9	9,773.6	83.9	87.8	-139.71	-10,404.2	1,317.8	1,081.8	908.1	173.68	6.229		
19,665.0	8,976.4	20,802.9	9,773.7	84.4	88.3	-139.70	-10,469.2	1,317.3	1,081.8	907.1	174.65	6.194		
19,700.0	8,976.4	20,837.9	9,773.7	84.6	88.5	-139.70	-10,504.2	1,317.0	1,081.8	906.6	175.18	6.175		
19,760.0	8,976.4	20,897.9	9,773.7	85.1	88.9	-139.70	-10,564.2	1,316.5	1,081.8	905.7	176.08	6.144		
19,800.0	8,976.5	20,937.9	9,773.7	85.4	89.2	-139.70	-10,604.2	1,316.2	1,081.8	905.1	176.69	6.123		
19,855.0	8,976.5	20,992.9	9,773.8	85.8	89.6	-139.70	-10,659.2	1,315.7	1,081.8	904.3	177.51	6.094		
19,900.0	8,976.6	21,037.9	9,773.8	86.1	90.0	-139.70	-10,704.2	1,315.4	1,081.8	903.6	178.19	6.071		
19,950.0	8,976.6	21,087.9	9,773.9	86.5	90.3	-139.70	-10,754.2	1,314.9	1,081.8	902.9	178.94	6.046		
20,000.0	8,976.7	21,137.9	9,773.9	86.8	90.7	-139.69	-10,804.2	1,314.5	1,081.8	902.1	179.70	6.020		
20,045.0	8,976.7	21,182.9	9,773.9	87.2	91.0	-139.69	-10,849.2	1,314.2	1,081.8	901.5	180.38	5.998		
20,100.0	8,976.8	21,237.9	9,774.0	87.6	91.4	-139.69	-10,904.2	1,313.7	1,081.9	900.6	181.20	5.970		
20,140.0	8,976.8	21,277.9	9,774.0	87.9	91.7	-139.69	-10,944.2	1,313.4	1,081.9	900.1	181.81	5.951		
20,200.0	8,976.9	21,337.9	9,774.0	88.3	92.1	-139.69	-11,004.2	1,312.9	1,081.9	899.2	182.71	5.921		
20,235.0	8,976.9	21,372.9	9,774.1	88.6	92.4	-139.69	-11,039.2	1,312.6	1,081.9	898.6	183.24	5.904		
20,300.0	8,977.0	21,437.9	9,774.1	89.1	92.9	-139.68	-11,104.2	1,312.0	1,081.9	897.7	184.22	5.873		
20,330.0	8,977.0	21,467.9	9,774.1	89.3	93.1	-139.68	-11,134.2	1,311.8	1,081.9	897.2	184.67	5.858		
20,400.0	8,977.1	21,537.9	9,774.2	89.8	93.6	-139.68	-11,204.2	1,311.2	1,081.9	896.2	185.73	5.825		
20,425.0	8,977.1	21,562.9	9,774.2	90.0	93.8	-139.68	-11,229.2	1,311.0	1,081.9	895.8	186.11	5.813		
20,500.0	8,977.2	21,637.9	9,774.3	90.6	94.3	-139.68	-11,304.2	1,310.4	1,081.9	894.7	187.24	5.778		
20,520.0	8,977.2	21,657.9	9,774.3	90.7	94.5	-139.68	-11,324.2	1,310.2	1,081.9	894.4	187.54	5.769		
20,600.0	8,977.3	21,737.9	9,774.3	91.3	95.1	-139.67	-11,404.2	1,309.6	1,081.9	893.2	188.75	5.732		
20,615.0	8,977.3	21,752.9	9,774.3	91.4	95.2	-139.67	-11,419.2	1,309.4	1,081.9	893.0	188.98	5.725		
20,700.0	8,977.4	21,837.9	9,774.4	92.0	95.8	-139.67	-11,504.2	1,308.7	1,082.0	891.7	190.26	5.687		
20,710.0	8,977.4	21,847.9	9,774.4	92.1	95.9	-139.67	-11,514.2	1,308.7	1,082.0	891.5	190.41	5.682		
20,800.0	8,977.5	21,937.9	9,774.5	92.8	96.5	-139.67	-11,604.2	1,307.9	1,082.0	890.2	191.77	5.642		
20,805.0	8,977.5	21,942.9	9,774.5	92.8	96.6	-139.67	-11,609.2	1,307.9	1,082.0	890.1	191.85	5.640		
20,900.0	8,977.6	22,037.9	9,774.5	93.5	97.3	-139.66	-11,704.2	1,307.1	1,082.0	888.7	193.28	5.598		
20,995.0	8,977.7	22,132.9	9,774.6	94.2	98.0	-139.66	-11,799.2	1,306.3	1,082.0	887.3	194.72	5.557		
21,000.0	8,977.7	22,137.9	9,774.6	94.3	98.0	-139.66	-11,804.2	1,306.3	1,082.0	887.2	194.80	5.554		
21,090.0	8,977.8	22,227.9	9,774.7	94.9	98.6	-139.66	-11,894.2	1,305.5	1,082.0	885.9	196.16	5.516		
21,100.0	8,977.8	22,237.9	9,774.7	95.0	98.7	-139.66	-11,904.2	1,305.4	1,082.0	885.7	196.31	5.512		
21,185.0	8,977.9	22,322.9	9,774.8	95.7	99.3	-139.65	-11,989.2	1,304.7	1,082.0	884.4	197.60	5.476		
21,200.0	8,977.9	22,337.9	9,774.8	95.8	99.5	-139.65	-12,004.2	1,304.6	1,082.0	884.2	197.82	5.470		
21,280.0	8,978.0	22,417.9	9,774.8	96.4	100.0	-139.65	-12,084.2	1,303.9	1,082.0	883.0	199.04	5.436		
21,300.0	8,978.0	22,437.9	9,774.8	96.5	100.2	-139.65	-12,104.2	1,303.8	1,082.0	882.7	199.34	5.428		
21,375.0	8,978.1	22,512.9	9,774.9	97.1	100.7	-139.65	-12,179.2	1,303.2	1,082.1	881.6	200.48	5.397		
21,400.0	8,978.1	22,537.9	9,774.9	97.3	100.9	-139.65	-12,204.2	1,302.9	1,082.1	881.2	200.85	5.387		
21,470.0	8,978.2	22,607.9	9,775.0	97.8	101.4	-139.64	-12,274.2	1,302.4	1,082.1	880.2	201.91	5.359		
21,500.0	8,978.2	22,637.9	9,775.0	98.0	101.7	-139.64	-12,304.2	1,302.1	1,082.1	879.7	202.37	5.347		
21,565.0	8,978.3	22,702.9	9,775.0	98.5	102.1	-139.64	-12,369.2	1,301.6	1,082.1	878.7	203.35	5.321		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	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
21,600.0	8,978.3	22,737.9	9,775.1	98.7	102.4	-139.64	-12,404.2	1,301.3	1,082.1	878.2	203.89	5.307	
21,660.0	8,978.4	22,797.9	9,775.1	99.2	102.8	-139.64	-12,464.2	1,300.8	1,082.1	877.3	204.80	5.284	
21,700.0	8,978.4	22,837.9	9,775.1	99.5	103.1	-139.64	-12,504.2	1,300.5	1,082.1	876.7	205.40	5.268	
21,755.0	8,978.5	22,892.9	9,775.2	99.9	103.5	-139.63	-12,559.2	1,300.0	1,082.1	875.9	206.24	5.247	
21,800.0	8,978.5	22,937.9	9,775.2	100.2	103.9	-139.63	-12,604.2	1,299.6	1,082.1	875.2	206.92	5.230	
21,850.0	8,978.6	22,987.9	9,775.2	100.6	104.2	-139.63	-12,654.2	1,299.2	1,082.1	874.5	207.68	5.211	
21,900.0	8,978.6	23,037.9	9,775.3	101.0	104.6	-139.63	-12,704.2	1,298.8	1,082.1	873.7	208.44	5.192	
21,945.0	8,978.7	23,082.9	9,775.3	101.3	104.9	-139.63	-12,749.2	1,298.4	1,082.2	873.0	209.12	5.175	
22,000.0	8,978.7	23,137.9	9,775.3	101.7	105.3	-139.63	-12,804.1	1,298.0	1,082.2	872.2	209.95	5.154	
22,040.0	8,978.7	23,177.9	9,775.4	102.0	105.6	-139.63	-12,844.1	1,297.7	1,082.2	871.6	210.56	5.139	
22,100.0	8,978.8	23,237.9	9,775.4	102.5	106.1	-139.62	-12,904.1	1,297.2	1,082.2	870.7	211.47	5.117	
22,135.0	8,978.8	23,272.9	9,775.4	102.7	106.3	-139.62	-12,939.1	1,296.9	1,082.2	870.2	212.00	5.105	
22,200.0	8,978.9	23,337.9	9,775.5	103.2	106.8	-139.62	-13,004.1	1,296.3	1,082.2	869.2	212.99	5.081	
22,230.0	8,978.9	23,367.9	9,775.5	103.5	107.0	-139.62	-13,034.1	1,296.1	1,082.2	868.8	213.45	5.070	
22,300.0	8,979.0	23,437.9	9,775.6	104.0	107.6	-139.62	-13,104.1	1,295.5	1,082.2	867.7	214.51	5.045	
22,325.0	8,979.0	23,462.9	9,775.6	104.2	107.7	-139.62	-13,129.1	1,295.3	1,082.2	867.3	214.89	5.036	
22,400.0	8,979.1	23,537.9	9,775.6	104.7	108.3	-139.61	-13,204.1	1,294.7	1,082.2	866.2	216.03	5.010	
22,420.0	8,979.1	23,557.9	9,775.6	104.9	108.4	-139.61	-13,224.1	1,294.5	1,082.2	865.9	216.34	5.003	
22,500.0	8,979.2	23,637.9	9,775.7	105.5	109.0	-139.61	-13,304.1	1,293.9	1,082.2	864.7	217.55	4.975	
22,515.0	8,979.2	23,652.9	9,775.7	105.6	109.1	-139.61	-13,319.1	1,293.7	1,082.2	864.5	217.78	4.969	
22,600.0	8,979.3	23,737.9	9,775.8	106.2	109.8	-139.61	-13,404.1	1,293.0	1,082.3	863.2	219.07	4.940	
22,610.0	8,979.3	23,747.9	9,775.8	106.3	109.8	-139.61	-13,414.1	1,292.9	1,082.3	863.0	219.22	4.937	
22,700.0	8,979.4	23,837.9	9,775.8	107.0	110.5	-139.60	-13,504.1	1,292.2	1,082.3	861.7	220.59	4.906	
22,705.0	8,979.4	23,842.9	9,775.9	107.0	110.5	-139.60	-13,509.1	1,292.2	1,082.3	861.6	220.67	4.905	
22,800.0	8,979.5	23,937.9	9,775.9	107.7	111.3	-139.60	-13,604.1	1,291.4	1,082.3	860.2	222.11	4.873	
22,895.0	8,979.6	24,032.9	9,776.0	108.4	112.0	-139.60	-13,699.1	1,290.6	1,082.3	858.7	223.56	4.841	
22,900.0	8,979.6	24,037.9	9,776.0	108.5	112.0	-139.60	-13,704.1	1,290.5	1,082.3	858.7	223.64	4.840	
22,990.0	8,979.7	24,127.9	9,776.1	109.2	112.7	-139.59	-13,794.1	1,289.8	1,082.3	857.3	225.01	4.810	
23,000.0	8,979.7	24,137.9	9,776.1	109.2	112.7	-139.59	-13,804.1	1,289.7	1,082.3	857.2	225.16	4.807	
23,085.0	8,979.8	24,222.9	9,776.1	109.9	113.4	-139.59	-13,889.1	1,289.0	1,082.3	855.9	226.45	4.780	
23,100.0	8,979.8	24,237.9	9,776.1	110.0	113.5	-139.59	-13,904.1	1,288.9	1,082.3	855.7	226.68	4.775	
23,180.0	8,979.9	24,317.9	9,776.2	110.6	114.1	-139.59	-13,984.1	1,288.2	1,082.4	854.5	227.90	4.749	
23,200.0	8,979.9	24,337.9	9,776.2	110.7	114.2	-139.59	-14,004.1	1,288.1	1,082.4	854.2	228.20	4.743	
23,275.0	8,980.0	24,412.9	9,776.3	111.3	114.8	-139.58	-14,079.1	1,287.4	1,082.4	853.0	229.35	4.719	
23,300.0	8,980.0	24,437.9	9,776.3	111.5	115.0	-139.58	-14,104.1	1,287.2	1,082.4	852.6	229.73	4.712	
23,370.0	8,980.1	24,507.9	9,776.3	112.0	115.5	-139.58	-14,174.1	1,286.7	1,082.4	851.6	230.79	4.690	
23,400.0	8,980.1	24,537.9	9,776.4	112.2	115.7	-139.58	-14,204.1	1,286.4	1,082.4	851.1	231.25	4.681	
23,465.0	8,980.2	24,602.9	9,776.4	112.7	116.2	-139.58	-14,269.1	1,285.9	1,082.4	850.2	232.24	4.661	
23,500.0	8,980.2	24,637.9	9,776.4	113.0	116.4	-139.58	-14,304.1	1,285.6	1,082.4	849.6	232.77	4.650	
23,560.0	8,980.3	24,697.9	9,776.5	113.4	116.9	-139.57	-14,364.1	1,285.1	1,082.4	848.7	233.69	4.632	
23,600.0	8,980.3	24,737.9	9,776.5	113.7	117.2	-139.57	-14,404.1	1,284.8	1,082.4	848.1	234.30	4.620	
23,655.0	8,980.4	24,792.9	9,776.5	114.1	117.6	-139.57	-14,459.1	1,284.3	1,082.4	847.3	235.14	4.603	
23,700.0	8,980.4	24,837.9	9,776.6	114.5	117.9	-139.57	-14,504.1	1,283.9	1,082.4	846.6	235.82	4.590	
23,750.0	8,980.5	24,887.9	9,776.6	114.9	118.3	-139.57	-14,554.1	1,283.5	1,082.4	845.9	236.59	4.575	
23,800.0	8,980.5	24,937.9	9,776.6	115.2	118.7	-139.57	-14,604.1	1,283.1	1,082.5	845.1	237.35	4.561	
23,845.0	8,980.6	24,982.9	9,776.7	115.6	119.0	-139.57	-14,649.1	1,282.7	1,082.5	844.4	238.04	4.547	
23,900.0	8,980.6	25,037.9	9,776.7	116.0	119.4	-139.56	-14,704.1	1,282.3	1,082.5	843.6	238.87	4.532	
23,940.0	8,980.7	25,077.9	9,776.7	116.3	119.7	-139.56	-14,744.1	1,281.9	1,082.5	843.0	239.48	4.520	
24,000.0	8,980.7	25,137.9	9,776.8	116.7	120.2	-139.56	-14,804.1	1,281.4	1,082.5	842.1	240.40	4.503	
24,035.0	8,980.8	25,172.9	9,776.8	117.0	120.4	-139.56	-14,839.1	1,281.2	1,082.5	841.6	240.93	4.493	
24,100.0	8,980.8	25,237.9	9,776.9	117.5	120.9	-139.56	-14,904.1	1,280.6	1,082.5	840.6	241.93	4.475	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	Vertical	Offset	Semi Major Axis		Offset Wellbore Centre		Rule Assigned:		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
24,130.0	8,980.9	25,267.9	9,776.9	117.7	121.1	-139.56	-14,934.1	1,280.4	1,082.5	840.1	242.38	4.466
24,147.5	8,980.9	25,285.5	9,776.9	117.8	121.3	-139.56	-14,951.6	1,280.2	1,082.5	839.9	242.65	4.461
24,200.0	8,980.9	25,337.9	9,776.9	118.2	121.6	-139.55	-15,004.1	1,279.8	1,082.5	839.1	243.45	4.447
24,225.0	8,980.9	25,362.9	9,777.0	118.4	121.8	-139.55	-15,029.1	1,279.6	1,082.5	838.7	243.83	4.440
24,277.5	8,981.0	25,415.5	9,777.0	118.8	122.2	-139.55	-15,081.6	1,279.2	1,082.5	837.9	244.63	4.425
24,278.2	8,981.0	25,416.1	9,777.0	118.8	122.2	-139.55	-15,082.2	1,279.1	1,082.5	837.9	244.64	4.425 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 #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	-22.11	148.9	-60.5	160.7				
95.0	95.0	93.1	93.1	3.0	3.0	-22.11	148.9	-60.5	160.7	154.7	6.04	26.629	
100.0	100.0	98.1	98.1	3.0	3.0	-22.11	148.9	-60.5	160.7	154.7	6.04	26.607	
190.0	190.0	188.1	188.1	3.1	3.1	-22.11	148.9	-60.5	160.7	154.5	6.25	25.698	
200.0	200.0	198.1	198.1	3.1	3.1	-22.11	148.9	-60.5	160.7	154.4	6.29	25.556	
285.0	285.0	283.1	283.1	3.3	3.2	-22.11	148.9	-60.5	160.7	154.2	6.50	24.741	
300.0	300.0	298.1	298.1	3.3	3.3	-22.11	148.9	-60.5	160.7	154.2	6.54	24.584	
380.0	380.0	378.1	378.1	3.4	3.4	-22.11	148.9	-60.5	160.7	154.0	6.73	23.878	
400.0	400.0	398.1	398.1	3.4	3.4	-22.11	148.9	-60.5	160.7	153.9	6.78	23.694	
475.0	475.0	473.1	473.1	3.5	3.5	-22.11	148.9	-60.5	160.7	153.8	6.96	23.082	
500.0	500.0	498.1	498.1	3.5	3.5	-22.11	148.9	-60.5	160.7	153.7	7.03	22.875	
570.0	570.0	568.1	568.1	3.6	3.6	-22.11	148.9	-60.5	160.7	153.5	7.19	22.345	
600.0	600.0	598.1	598.1	3.6	3.6	-22.11	148.9	-60.5	160.7	153.5	7.27	22.117	
665.0	665.0	663.1	663.1	3.7	3.7	-22.11	148.9	-60.5	160.7	153.3	7.42	21.660	
700.0	700.0	698.1	698.1	3.8	3.8	-22.11	148.9	-60.5	160.7	153.2	7.51	21.414	
760.0	760.0	758.1	758.1	3.8	3.8	-22.11	148.9	-60.5	160.7	153.1	7.65	21.020	
800.0	800.0	798.1	798.1	3.9	3.9	-22.11	148.9	-60.5	160.7	153.0	7.74	20.759	
855.0	855.0	853.1	853.1	4.0	3.9	-22.11	148.9	-60.5	160.7	152.9	7.87	20.421	
900.0	900.0	898.1	898.1	4.0	4.0	-22.11	148.9	-60.5	160.7	152.7	7.98	20.147	
950.0	950.0	948.1	948.1	4.1	4.1	-22.11	148.9	-60.5	160.7	152.6	8.09	19.858	
1,000.0	1,000.0	998.1	998.1	4.1	4.1	-22.11	148.9	-60.5	160.7	152.5	8.21	19.573	
1,045.0	1,045.0	1,043.1	1,043.1	4.2	4.2	-22.11	148.9	-60.5	160.7	152.4	8.31	19.329	
1,100.0	1,100.0	1,098.1	1,098.1	4.2	4.2	-22.11	148.9	-60.5	160.7	152.3	8.44	19.035	
1,140.0	1,140.0	1,138.1	1,138.1	4.3	4.3	-22.11	148.9	-60.5	160.7	152.2	8.54	18.830	
1,200.0	1,200.0	1,198.1	1,198.1	4.4	4.4	-22.11	148.9	-60.5	160.7	152.0	8.67	18.528	
1,235.0	1,235.0	1,233.1	1,233.1	4.4	4.4	-22.11	148.9	-60.5	160.7	152.0	8.75	18.359	
1,300.0	1,300.0	1,298.1	1,298.1	4.5	4.5	-22.11	148.9	-60.5	160.7	151.8	8.90	18.049	
1,330.0	1,330.0	1,328.1	1,328.1	4.5	4.5	-22.11	148.9	-60.5	160.7	151.7	8.97	17.912	
1,400.0	1,400.0	1,398.1	1,398.1	4.6	4.6	-22.11	148.9	-60.5	160.7	151.6	9.13	17.597	
1,425.0	1,425.0	1,423.1	1,423.1	4.6	4.6	-22.11	148.9	-60.5	160.7	151.5	9.19	17.489	
1,500.0	1,500.0	1,498.1	1,498.1	4.7	4.7	-22.11	148.9	-60.5	160.7	151.4	9.36	17.169 CC	
1,520.0	1,520.0	1,517.8	1,517.8	4.7	4.7	-83.61	148.9	-60.5	160.7	151.3	9.41	17.079 ES	
1,600.0	1,600.0	1,596.4	1,596.3	4.8	4.9	-83.66	150.0	-59.3	161.1	151.5	9.56	16.846	
1,615.0	1,615.0	1,611.1	1,611.1	4.9	4.9	-83.67	150.3	-58.9	161.2	151.6	9.61	16.780	
1,700.0	1,699.8	1,694.6	1,694.4	5.1	5.1	-83.77	153.2	-55.5	162.1	152.2	9.87	16.426	
1,710.0	1,709.8	1,704.4	1,704.2	5.1	5.1	-83.79	153.7	-55.0	162.2	152.3	9.90	16.389	
1,800.0	1,799.5	1,792.8	1,792.3	5.3	5.3	-83.95	158.7	-49.2	163.9	153.7	10.17	16.104	
1,805.0	1,804.4	1,797.7	1,797.2	5.3	5.4	-83.96	159.0	-48.8	164.0	153.8	10.19	16.091	
1,900.0	1,898.7	1,891.0	1,889.8	5.6	5.6	-84.18	166.3	-40.3	166.3	155.9	10.48	15.873	
1,995.0	1,992.5	1,984.3	1,982.0	5.9	5.9	-84.44	175.6	-29.6	169.3	158.6	10.77	15.725	
2,000.0	1,997.5	1,989.2	1,986.8	5.9	5.9	-84.45	176.1	-29.0	169.5	158.7	10.78	15.719	
2,090.0	2,085.8	2,077.5	2,073.6	6.2	6.2	-84.74	186.8	-16.6	173.0	161.9	11.06	15.635	
2,100.0	2,095.6	2,087.3	2,083.2	6.3	6.3	-84.77	188.1	-15.1	173.4	162.3	11.09	15.630	
2,185.0	2,178.5	2,170.8	2,164.6	6.6	6.6	-85.06	200.0	-1.4	177.3	165.9	11.37	15.594	
2,200.1	2,193.2	2,185.6	2,179.1	6.6	6.6	-85.12	202.3	1.3	178.0	166.6	11.42	15.593	
2,280.0	2,270.7	2,265.1	2,256.2	6.9	6.9	-85.37	214.8	15.8	182.1	170.4	11.68	15.581	
2,300.0	2,290.1	2,285.1	2,275.6	6.9	6.9	-85.43	218.0	19.5	183.1	171.3	11.75	15.578	
2,375.0	2,362.9	2,360.0	2,348.3	7.2	7.2	-85.65	229.8	33.2	186.9	174.9	12.02	15.556	
2,400.0	2,387.1	2,384.9	2,372.5	7.3	7.3	-85.72	233.8	37.8	188.2	176.1	12.10	15.549	
2,470.0	2,455.0	2,454.8	2,440.3	7.5	7.5	-85.92	244.8	50.6	191.8	179.4	12.36	15.521	
2,500.0	2,484.1	2,484.8	2,469.4	7.6	7.6	-86.00	249.6	56.0	193.3	180.8	12.46	15.508	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #804H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9292-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Rule Assigned:												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
2,565.0	2,547.2	2,549.7	2,532.4	7.8	7.8	-86.17		259.9	67.9	196.6	183.9	12.70	15.476
2,600.0	2,581.2	2,584.7	2,566.3	8.0	8.0	-86.25		265.4	74.3	198.4	185.6	12.83	15.459
2,660.0	2,639.4	2,644.6	2,624.4	8.2	8.2	-86.40		274.9	85.3	201.5	188.4	13.06	15.425
2,700.0	2,678.2	2,684.5	2,663.2	8.3	8.3	-86.50		281.2	92.6	203.5	190.3	13.21	15.403
2,755.0	2,731.6	2,739.5	2,716.5	8.6	8.5	-86.63		289.9	102.7	206.3	192.9	13.43	15.369
2,800.0	2,775.2	2,784.4	2,760.1	8.7	8.7	-86.73		297.0	110.9	208.7	195.1	13.60	15.341
2,850.0	2,823.7	2,834.3	2,808.5	8.9	8.9	-86.85		304.9	120.0	211.2	197.4	13.80	15.308
2,900.0	2,872.3	2,884.3	2,857.0	9.1	9.1	-86.96		312.8	129.2	213.8	199.8	13.99	15.276
2,945.0	2,915.9	2,929.2	2,900.6	9.3	9.3	-87.05		319.9	137.4	216.1	201.9	14.17	15.245
3,000.0	2,969.3	2,984.1	2,953.9	9.5	9.5	-87.17		328.6	147.5	218.9	204.5	14.39	15.207
3,040.0	3,008.1	3,024.1	2,992.6	9.7	9.7	-87.25		334.9	154.8	221.0	206.4	14.56	15.179
3,100.0	3,066.3	3,084.0	3,050.8	9.9	9.9	-87.37		344.4	165.8	224.0	209.2	14.80	15.137
3,135.0	3,100.3	3,118.9	3,084.7	10.1	10.1	-87.44		349.9	172.2	225.8	210.9	14.94	15.112
3,200.0	3,163.3	3,183.9	3,147.7	10.4	10.3	-87.57		360.2	184.1	229.2	214.0	15.21	15.065
3,230.0	3,192.4	3,213.8	3,176.7	10.5	10.5	-87.62		364.9	189.5	230.7	215.4	15.34	15.043
3,300.0	3,260.4	3,283.7	3,244.6	10.8	10.7	-87.75		376.0	202.3	234.3	218.7	15.63	14.993
3,325.0	3,284.6	3,308.7	3,268.8	10.9	10.9	-87.80		379.9	206.9	235.6	219.9	15.73	14.975
3,400.0	3,357.4	3,383.6	3,341.5	11.2	11.2	-87.93		391.8	220.6	239.4	223.4	16.05	14.920
3,420.0	3,376.8	3,403.6	3,360.8	11.3	11.3	-87.96		394.9	224.3	240.5	224.3	16.13	14.906
3,500.0	3,454.4	3,483.5	3,438.4	11.7	11.6	-88.10		407.6	238.9	244.6	228.1	16.47	14.848
3,515.0	3,469.0	3,498.4	3,452.9	11.7	11.7	-88.12		409.9	241.7	245.4	228.8	16.54	14.837
3,600.0	3,551.5	3,583.3	3,535.3	12.1	12.0	-88.26		423.4	257.2	249.7	232.8	16.90	14.776
3,610.0	3,561.2	3,593.3	3,544.9	12.1	12.1	-88.28		425.0	259.0	250.2	233.3	16.94	14.769
3,700.0	3,648.5	3,683.2	3,632.2	12.5	12.5	-88.42		439.2	275.5	254.9	237.5	17.33	14.705
3,705.0	3,653.3	3,688.2	3,637.0	12.6	12.5	-88.42		440.0	276.4	255.1	237.8	17.35	14.702
3,800.0	3,745.5	3,783.0	3,729.1	13.0	12.9	-88.57		455.0	293.8	260.0	242.2	17.77	14.635
3,895.0	3,837.7	3,877.9	3,821.1	13.4	13.4	-88.70		470.0	311.1	264.9	246.7	18.18	14.569
3,900.0	3,842.5	3,882.9	3,826.0	13.4	13.4	-88.71		470.8	312.1	265.2	247.0	18.20	14.566
3,990.0	3,929.9	3,972.8	3,913.2	13.8	13.8	-88.83		485.0	328.5	269.8	251.2	18.60	14.505
4,000.0	3,939.6	3,982.8	3,922.8	13.9	13.8	-88.85		486.6	330.3	270.3	251.7	18.64	14.498
4,085.0	4,022.0	4,067.7	4,005.2	14.3	14.2	-88.96		500.0	345.9	274.7	255.7	19.02	14.442
4,100.0	4,036.6	4,082.6	4,019.7	14.3	14.3	-88.98		502.4	348.6	275.5	256.4	19.09	14.432
4,180.0	4,114.2	4,162.5	4,097.3	14.7	14.7	-89.08		515.0	363.3	279.6	260.1	19.44	14.380
4,200.0	4,133.6	4,182.5	4,116.6	14.8	14.7	-89.11		518.2	366.9	280.6	261.1	19.53	14.367
4,275.0	4,206.4	4,257.4	4,189.3	15.2	15.1	-89.20		530.0	380.6	284.5	264.6	19.87	14.319
4,300.0	4,230.7	4,282.4	4,213.5	15.3	15.2	-89.23		534.0	385.2	285.8	265.8	19.98	14.303
4,370.0	4,298.6	4,352.3	4,281.4	15.6	15.5	-89.32		545.0	398.0	289.4	269.1	20.29	14.260
4,400.0	4,327.7	4,382.2	4,310.4	15.7	15.7	-89.35		549.8	403.5	290.9	270.5	20.43	14.241
4,465.0	4,390.8	4,447.2	4,373.4	16.0	16.0	-89.43		560.0	415.4	294.3	273.6	20.72	14.201
4,500.0	4,424.7	4,482.1	4,407.3	16.2	16.1	-89.47		565.6	421.8	296.1	275.2	20.88	14.180
4,560.0	4,482.9	4,542.0	4,465.5	16.5	16.4	-89.54		575.0	432.8	299.2	278.0	21.15	14.145
4,600.0	4,521.7	4,582.0	4,504.2	16.7	16.6	-89.58		581.4	440.1	301.2	279.9	21.33	14.121
4,655.0	4,575.1	4,636.9	4,557.5	16.9	16.8	-89.64		590.0	450.1	304.1	282.5	21.58	14.089
4,700.0	4,618.8	4,681.8	4,601.1	17.1	17.1	-89.69		597.2	458.4	306.4	284.6	21.79	14.063
4,750.0	4,667.3	4,731.8	4,649.6	17.4	17.3	-89.74		605.1	467.5	309.0	287.0	22.00	14.042
4,800.0	4,715.8	4,782.3	4,698.6	17.6	17.5	-89.81		613.0	476.7	311.5	289.3	22.21	14.025
4,845.0	4,759.5	4,828.3	4,743.5	17.8	17.7	-90.00		619.7	484.5	313.7	291.3	22.38	14.015
4,853.6	4,767.8	4,837.1	4,752.1	17.8	17.8	-90.05		621.0	485.9	314.1	291.7	22.42	14.012
4,900.0	4,812.9	4,884.5	4,798.4	18.0	18.0	-90.38		627.4	493.3	316.1	293.5	22.58	13.998
4,940.0	4,851.9	4,925.3	4,838.5	18.2	18.2	-90.66		632.5	499.2	317.8	295.0	22.73	13.978
5,000.0	4,910.7	4,986.6	4,898.8	18.5	18.5	-91.06		639.4	507.3	320.0	297.1	22.95	13.942

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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)			
5,035.0	4,945.1	5,022.3	4,934.1	18.7	18.6	-91.29	643.1	511.5	321.2	298.2	23.07	13.924	
5,100.0	5,009.2	5,088.6	4,999.8	19.0	18.9	-91.71	649.1	518.5	323.2	299.9	23.28	13.884	
5,130.0	5,038.8	5,119.2	5,030.1	19.1	19.1	-91.90	651.6	521.3	324.0	300.7	23.37	13.868	
5,200.0	5,108.2	5,190.6	5,101.1	19.4	19.4	-92.34	656.5	527.0	325.7	302.1	23.56	13.823	
5,225.0	5,133.0	5,216.0	5,126.5	19.5	19.5	-92.50	657.9	528.7	326.2	302.6	23.62	13.808	
5,300.0	5,207.6	5,292.4	5,202.7	19.9	19.8	-92.95	661.5	532.8	327.4	303.6	23.80	13.757	
5,320.0	5,227.5	5,312.8	5,223.0	19.9	19.8	-93.07	662.2	533.6	327.7	303.8	23.84	13.745	
5,400.0	5,307.3	5,394.2	5,304.4	20.2	20.1	-93.54	664.1	535.8	328.4	304.5	24.00	13.686	
5,415.0	5,322.3	5,409.5	5,319.6	20.3	20.1	-93.63	664.3	536.0	328.5	304.5	24.02	13.677	
5,500.0	5,407.3	5,495.2	5,405.4	20.6	20.2	-94.07	664.5	536.3	328.8	304.7	24.13	13.628	
5,510.0	5,417.3	5,505.2	5,415.4	20.6	20.2	-94.10	664.5	536.3	328.8	304.7	24.14	13.623	
5,553.7	5,461.0	5,549.0	5,459.1	20.6	20.2	-32.67	664.5	536.3	328.8	304.6	24.19	13.594	
5,600.0	5,507.3	5,595.2	5,505.4	20.7	20.3	-32.67	664.5	536.3	328.8	304.6	24.24	13.565	
5,605.0	5,512.3	5,600.2	5,510.4	20.7	20.3	-32.67	664.5	536.3	328.8	304.6	24.25	13.561	
5,700.0	5,607.3	5,695.2	5,605.4	20.7	20.3	-32.67	664.5	536.3	328.8	304.4	24.39	13.482	
5,795.0	5,702.3	5,790.2	5,700.4	20.7	20.3	-32.67	664.5	536.3	328.8	304.3	24.53	13.404	
5,800.0	5,707.3	5,795.2	5,705.4	20.7	20.3	-32.67	664.5	536.3	328.8	304.3	24.54	13.400	
5,890.0	5,797.3	5,885.2	5,795.4	20.8	20.4	-32.67	664.5	536.3	328.8	304.1	24.67	13.326	
5,900.0	5,807.3	5,895.2	5,805.4	20.8	20.4	-32.67	664.5	536.3	328.8	304.1	24.69	13.318	
5,985.0	5,892.3	5,980.2	5,890.4	20.8	20.4	-32.67	664.5	536.3	328.8	304.0	24.82	13.250	
6,000.0	5,907.3	5,995.2	5,905.4	20.8	20.4	-32.67	664.5	536.3	328.8	304.0	24.84	13.238	
6,080.0	5,987.3	6,075.2	5,985.4	20.9	20.5	-32.67	664.5	536.3	328.8	303.9	24.96	13.174	
6,100.0	6,007.3	6,095.2	6,005.4	20.9	20.5	-32.67	664.5	536.3	328.8	303.8	24.99	13.159	
6,175.0	6,082.3	6,170.2	6,080.4	20.9	20.5	-32.67	664.5	536.3	328.8	303.7	25.10	13.099	
6,200.0	6,107.3	6,195.2	6,105.4	20.9	20.5	-32.67	664.5	536.3	328.8	303.7	25.14	13.080	
6,270.0	6,177.3	6,265.2	6,175.4	20.9	20.6	-32.67	664.5	536.3	328.8	303.6	25.24	13.025	
6,300.0	6,207.3	6,295.2	6,205.4	21.0	20.6	-32.67	664.5	536.3	328.8	303.5	25.29	13.002	
6,365.0	6,272.3	6,360.2	6,270.4	21.0	20.6	-32.67	664.5	536.3	328.8	303.4	25.39	12.952	
6,400.0	6,307.3	6,395.2	6,305.4	21.0	20.6	-32.67	664.5	536.3	328.8	303.4	25.44	12.925	
6,460.0	6,367.3	6,455.2	6,365.4	21.0	20.6	-32.67	664.5	536.3	328.8	303.3	25.53	12.880	
6,500.0	6,407.3	6,495.2	6,405.4	21.0	20.7	-32.67	664.5	536.3	328.8	303.2	25.59	12.849	
6,555.0	6,462.3	6,550.2	6,460.4	21.1	20.7	-32.67	664.5	536.3	328.8	303.1	25.67	12.808	
6,600.0	6,507.3	6,595.2	6,505.4	21.1	20.7	-32.67	664.5	536.3	328.8	303.1	25.74	12.774	
6,650.0	6,557.3	6,645.2	6,555.4	21.1	20.7	-32.67	664.5	536.3	328.8	303.0	25.82	12.737	
6,700.0	6,607.3	6,695.2	6,605.4	21.1	20.8	-32.67	664.5	536.3	328.8	302.9	25.89	12.699	
6,745.0	6,652.3	6,740.2	6,650.4	21.1	20.8	-32.67	664.5	536.3	328.8	302.9	25.96	12.666	
6,800.0	6,707.3	6,795.2	6,705.4	21.2	20.8	-32.67	664.5	536.3	328.8	302.8	26.04	12.626	
6,840.0	6,747.3	6,835.2	6,745.4	21.2	20.8	-32.67	664.5	536.3	328.8	302.7	26.10	12.597	
6,900.0	6,807.3	6,895.2	6,805.4	21.2	20.8	-32.67	664.5	536.3	328.8	302.6	26.20	12.553	
6,935.0	6,842.3	6,930.2	6,840.4	21.2	20.9	-32.67	664.5	536.3	328.8	302.6	26.25	12.528	
7,000.0	6,907.3	6,995.2	6,905.4	21.3	20.9	-32.67	664.5	536.3	328.8	302.5	26.35	12.481	
7,030.0	6,937.3	7,025.2	6,935.4	21.3	20.9	-32.67	664.5	536.3	328.8	302.4	26.39	12.459	
7,100.0	7,007.3	7,095.2	7,005.4	21.3	20.9	-32.67	664.5	536.3	328.8	302.3	26.50	12.409	
7,125.0	7,032.3	7,120.2	7,030.4	21.3	21.0	-32.67	664.5	536.3	328.8	302.3	26.54	12.392	
7,200.0	7,107.3	7,195.2	7,105.4	21.3	21.0	-32.67	664.5	536.3	328.8	302.2	26.65	12.339	
7,220.0	7,127.3	7,215.2	7,125.4	21.4	21.0	-32.67	664.5	536.3	328.8	302.1	26.68	12.325	
7,300.0	7,207.3	7,295.2	7,205.4	21.4	21.0	-32.67	664.5	536.3	328.8	302.0	26.80	12.269	
7,315.0	7,222.3	7,310.2	7,220.4	21.4	21.0	-32.67	664.5	536.3	328.8	302.0	26.82	12.258	
7,400.0	7,307.3	7,395.2	7,305.4	21.4	21.1	-32.67	664.5	536.3	328.8	301.9	26.95	12.200	
7,410.0	7,317.3	7,405.2	7,315.4	21.4	21.1	-32.67	664.5	536.3	328.8	301.9	26.97	12.193	
7,500.0	7,407.3	7,495.2	7,405.4	21.5	21.1	-32.67	664.5	536.3	328.8	301.7	27.11	12.131	

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

ConocoPhillips

Anticollision Report

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Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
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Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	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)			
7,505.0	7,412.3	7,500.2	7,410.4	21.5	21.1	-32.67	664.5	536.3	328.8	301.7	27.11	12.128		
7,600.0	7,507.3	7,595.2	7,505.4	21.5	21.2	-32.67	664.5	536.3	328.8	301.6	27.26	12.064		
7,695.0	7,602.3	7,690.2	7,600.4	21.6	21.2	-32.67	664.5	536.3	328.8	301.4	27.40	12.000		
7,700.0	7,607.3	7,695.2	7,605.4	21.6	21.2	-32.67	664.5	536.3	328.8	301.4	27.41	11.997		
7,790.0	7,697.3	7,785.2	7,695.4	21.6	21.3	-32.67	664.5	536.3	328.8	301.3	27.55	11.937		
7,800.0	7,707.3	7,795.2	7,705.4	21.6	21.3	-32.67	664.5	536.3	328.8	301.3	27.56	11.930		
7,885.0	7,792.3	7,880.2	7,790.4	21.7	21.3	-32.67	664.5	536.3	328.8	301.1	27.69	11.874		
7,900.0	7,807.3	7,895.2	7,805.4	21.7	21.3	-32.67	664.5	536.3	328.8	301.1	27.71	11.865		
7,980.0	7,887.3	7,975.2	7,885.4	21.7	21.4	-32.67	664.5	536.3	328.8	301.0	27.84	11.812		
8,000.0	7,907.3	7,995.2	7,905.4	21.7	21.4	-32.67	664.5	536.3	328.8	301.0	27.87	11.800		
8,075.0	7,982.3	8,070.2	7,980.4	21.8	21.4	-32.67	664.5	536.3	328.8	300.8	27.98	11.751		
8,100.0	8,007.3	8,095.2	8,005.4	21.8	21.4	-32.67	664.5	536.3	328.8	300.8	28.02	11.735		
8,170.0	8,077.3	8,165.2	8,075.4	21.8	21.5	-32.67	664.5	536.3	328.8	300.7	28.13	11.691		
8,200.0	8,107.3	8,195.2	8,105.4	21.8	21.5	-32.67	664.5	536.3	328.8	300.6	28.17	11.671		
8,265.0	8,172.3	8,260.2	8,170.4	21.8	21.5	-32.67	664.5	536.3	328.8	300.6	28.27	11.630		
8,300.0	8,207.3	8,295.2	8,205.4	21.9	21.5	-32.67	664.5	536.3	328.8	300.5	28.33	11.608		
8,360.0	8,267.3	8,355.2	8,265.4	21.9	21.6	-32.67	664.5	536.3	328.8	300.4	28.42	11.571		
8,400.0	8,307.3	8,395.2	8,305.4	21.9	21.6	-32.67	664.5	536.3	328.8	300.3	28.48	11.546		
8,455.0	8,362.3	8,450.2	8,360.4	21.9	21.6	-32.67	664.5	536.3	328.8	300.3	28.56	11.514		
8,485.8	8,393.0	8,481.0	8,391.1	21.9	21.6	-32.67	664.5	536.3	328.8	300.2	28.60	11.496		
8,500.0	8,407.3	8,495.2	8,405.4	21.9	21.6	146.83	664.5	536.3	329.0	300.4	28.62	11.496		
8,550.0	8,457.1	8,545.1	8,455.2	22.0	21.7	147.00	664.5	536.3	331.8	303.1	28.73	11.551		
8,600.0	8,506.5	8,594.5	8,504.6	22.0	21.7	147.36	664.5	536.3	338.4	309.5	28.86	11.725		
8,645.0	8,550.2	8,638.2	8,548.3	22.0	21.7	147.80	664.5	536.3	347.4	318.4	29.00	11.980		
8,650.0	8,555.0	8,643.0	8,553.1	22.0	21.7	147.86	664.5	536.3	348.6	319.6	29.02	12.014		
8,700.0	8,602.3	8,690.3	8,600.4	22.0	21.7	148.45	664.5	536.3	362.6	333.4	29.21	12.414		
8,740.0	8,639.0	8,726.9	8,637.1	22.0	21.8	148.93	664.5	536.3	376.5	347.1	29.39	12.810		
8,750.0	8,648.0	8,735.9	8,646.1	22.1	21.8	149.05	664.5	536.3	380.3	350.9	29.44	12.919		
8,800.0	8,691.7	8,779.7	8,699.8	22.1	21.8	149.59	664.5	536.3	401.8	372.1	29.71	13.526		
8,835.0	8,721.0	8,809.0	8,719.1	22.1	21.8	149.89	664.5	536.3	419.0	389.1	29.91	14.008		
8,850.0	8,733.2	8,821.2	8,731.3	22.1	21.8	149.99	664.5	536.3	426.9	396.9	30.00	14.229		
8,900.0	8,772.1	8,860.1	8,770.2	22.1	21.8	150.17	664.5	536.3	455.6	425.3	30.33	15.023		
8,930.0	8,794.1	8,882.0	8,792.2	22.2	21.8	150.15	664.5	536.3	474.4	443.9	30.52	15.542		
8,950.0	8,808.1	8,896.1	8,806.2	22.2	21.8	150.06	664.5	536.3	487.6	457.0	30.66	15.904		
9,000.0	8,841.0	8,928.9	8,839.1	22.2	21.9	149.55	664.5	536.3	522.8	491.8	31.00	16.867		
9,025.0	8,856.1	8,944.1	8,854.2	22.2	21.9	149.11	664.5	536.3	541.5	510.4	31.16	17.377		
9,050.0	8,870.4	8,958.3	8,868.5	22.2	21.9	148.52	664.5	536.3	560.9	529.6	31.33	17.905		
9,100.0	8,896.2	8,984.1	8,894.3	22.3	21.9	146.77	664.5	536.3	601.6	570.0	31.64	19.013		
9,120.0	8,905.5	8,993.4	8,903.6	22.3	21.9	145.80	664.5	536.3	618.6	586.8	31.76	19.475		
9,150.0	8,918.2	9,006.1	8,916.3	22.3	21.9	143.99	664.5	536.3	644.6	612.7	31.94	20.184		
9,200.0	8,936.1	9,024.1	8,934.2	22.4	21.9	139.69	664.5	536.3	689.5	657.3	32.21	21.409		
9,215.0	8,940.7	9,028.7	8,938.8	22.4	21.9	137.98	664.5	536.3	703.3	671.0	32.28	21.786		
9,250.0	8,950.0	9,037.9	8,948.1	22.4	21.9	132.96	664.5	536.3	736.0	703.5	32.45	22.680		
9,300.0	8,959.6	9,047.5	8,957.7	22.5	21.9	122.30	664.5	536.3	783.6	751.0	32.67	23.989		
9,310.0	8,961.0	9,048.9	8,959.1	22.5	21.9	119.52	664.5	536.3	793.3	760.6	32.71	24.255		
9,350.0	8,964.9	10,430.9	9,775.1	22.5	23.0	167.48	-147.5	529.1	831.8	792.9	38.94	21.362		
9,385.2	8,966.0	10,466.1	9,775.1	22.6	23.0	167.49	-182.6	528.8	830.8	791.7	39.10	21.249		
9,400.0	8,966.0	10,480.9	9,775.2	22.6	23.0	167.49	-197.4	528.7	830.8	791.6	39.16	21.216		
9,405.0	8,966.0	10,485.9	9,775.2	22.6	23.0	167.49	-202.4	528.6	830.8	791.6	39.18	21.204		
9,500.0	8,966.1	10,580.9	9,775.2	22.7	23.2	167.49	-297.4	527.8	830.7	791.1	39.62	20.969		
9,595.0	8,966.2	10,675.9	9,775.3	22.9	23.3	167.49	-392.4	526.9	830.7	790.6	40.11	20.712		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
9,600.0	8,966.2	10,680.9	9,775.3	22.9	23.3	167.49	-397.4	526.9	830.7	790.5	40.13	20.699		
9,690.0	8,966.3	10,770.9	9,775.3	23.0	23.5	167.49	-487.4	526.1	830.6	790.0	40.64	20.437		
9,700.0	8,966.3	10,780.9	9,775.3	23.0	23.5	167.49	-497.4	526.0	830.6	789.9	40.70	20.408		
9,785.0	8,966.4	10,865.9	9,775.4	23.2	23.6	167.49	-582.4	525.3	830.6	789.4	41.23	20.146		
9,800.0	8,966.4	10,880.9	9,775.4	23.2	23.7	167.49	-597.4	525.1	830.6	789.3	41.32	20.100		
9,880.0	8,966.5	10,960.9	9,775.4	23.4	23.8	167.49	-677.4	524.4	830.5	788.7	41.86	19.842		
9,900.0	8,966.5	10,980.9	9,775.4	23.4	23.9	167.49	-697.4	524.2	830.5	788.5	41.99	19.778		
9,975.0	8,966.6	11,055.9	9,775.5	23.6	24.0	167.49	-772.4	523.6	830.5	788.0	42.53	19.527		
10,000.0	8,966.6	11,080.9	9,775.5	23.7	24.1	167.49	-797.4	523.3	830.5	787.8	42.71	19.444		
10,070.0	8,966.7	11,150.9	9,775.5	23.8	24.3	167.49	-867.4	522.7	830.4	787.2	43.24	19.204		
10,100.0	8,966.7	11,180.9	9,775.5	23.9	24.3	167.49	-897.4	522.5	830.4	787.0	43.47	19.102		
10,165.0	8,966.8	11,245.9	9,775.6	24.1	24.5	167.48	-962.4	521.9	830.4	786.4	44.00	18.875		
10,200.0	8,966.8	11,280.9	9,775.6	24.2	24.6	167.48	-997.4	521.6	830.4	786.1	44.28	18.753		
10,260.0	8,966.9	11,340.9	9,775.6	24.3	24.7	167.48	-1,057.4	521.0	830.4	785.6	44.79	18.541		
10,300.0	8,966.9	11,380.9	9,775.6	24.4	24.8	167.48	-1,097.4	520.7	830.3	785.2	45.12	18.401		
10,355.0	8,967.0	11,435.9	9,775.7	24.6	25.0	167.48	-1,152.4	520.2	830.3	784.7	45.61	18.205		
10,400.0	8,967.0	11,480.9	9,775.7	24.7	25.1	167.48	-1,197.4	519.8	830.3	784.3	46.01	18.046		
10,450.0	8,967.1	11,530.9	9,775.7	24.9	25.3	167.48	-1,247.4	519.4	830.3	783.8	46.47	17.868		
10,500.0	8,967.1	11,580.9	9,775.7	25.1	25.4	167.48	-1,297.4	518.9	830.2	783.3	46.93	17.692		
10,545.0	8,967.2	11,625.9	9,775.8	25.2	25.6	167.48	-1,342.4	518.5	830.2	782.9	47.36	17.531		
10,600.0	8,967.2	11,680.9	9,775.8	25.4	25.8	167.48	-1,397.4	518.0	830.2	782.3	47.88	17.338		
10,640.0	8,967.3	11,720.9	9,775.8	25.5	25.9	167.48	-1,437.4	517.7	830.2	781.9	48.28	17.197		
10,700.0	8,967.3	11,780.9	9,775.8	25.7	26.1	167.48	-1,497.4	517.1	830.2	781.3	48.87	16.988		
10,735.0	8,967.4	11,815.9	9,775.9	25.9	26.2	167.48	-1,532.4	516.8	830.1	780.9	49.22	16.865		
10,800.0	8,967.4	11,880.9	9,775.9	26.1	26.5	167.48	-1,597.4	516.3	830.1	780.2	49.88	16.641		
10,830.0	8,967.5	11,910.9	9,775.9	26.2	26.6	167.48	-1,627.4	516.0	830.1	779.9	50.20	16.537		
10,900.0	8,967.5	11,980.9	9,775.9	26.5	26.9	167.48	-1,697.4	515.4	830.1	779.1	50.93	16.299		
10,925.0	8,967.6	12,005.9	9,776.0	26.6	27.0	167.48	-1,722.4	515.2	830.0	778.9	51.19	16.214		
11,000.0	8,967.6	12,080.9	9,776.0	26.9	27.3	167.48	-1,797.4	514.5	830.0	778.0	52.00	15.962		
11,020.0	8,967.6	12,100.9	9,776.0	27.0	27.4	167.48	-1,817.4	514.3	830.0	777.8	52.22	15.896		
11,100.0	8,967.7	12,180.9	9,776.0	27.3	27.7	167.48	-1,897.4	513.6	830.0	776.9	53.09	15.632		
11,115.0	8,967.7	12,195.9	9,776.1	27.4	27.8	167.48	-1,912.4	513.5	830.0	776.7	53.26	15.583		
11,200.0	8,967.8	12,280.9	9,776.1	27.7	28.1	167.48	-1,997.4	512.7	829.9	775.7	54.21	15.309		
11,210.0	8,967.8	12,290.9	9,776.1	27.8	28.2	167.48	-2,007.4	512.6	829.9	775.6	54.32	15.277		
11,300.0	8,967.9	12,380.9	9,776.2	28.2	28.6	167.48	-2,097.4	511.8	829.9	774.5	55.35	14.993		
11,305.0	8,967.9	12,385.9	9,776.2	28.2	28.6	167.48	-2,102.4	511.8	829.9	774.5	55.41	14.977		
11,400.0	8,968.0	12,480.9	9,776.2	28.6	29.1	167.48	-2,197.3	510.9	829.8	773.3	56.51	14.684		
11,495.0	8,968.1	12,575.9	9,776.3	29.1	29.5	167.47	-2,292.3	510.1	829.8	772.1	57.63	14.398		
11,500.0	8,968.1	12,580.9	9,776.3	29.1	29.5	167.47	-2,297.3	510.1	829.8	772.1	57.69	14.383		
11,590.0	8,968.2	12,670.9	9,776.3	29.6	30.0	167.47	-2,387.3	509.3	829.7	771.0	58.77	14.118		
11,600.0	8,968.2	12,680.9	9,776.3	29.6	30.0	167.47	-2,397.3	509.2	829.7	770.8	58.89	14.089		
11,685.0	8,968.3	12,765.9	9,776.4	30.0	30.5	167.47	-2,482.3	508.4	829.7	769.8	59.92	13.846		
11,700.0	8,968.3	12,780.9	9,776.4	30.1	30.6	167.47	-2,497.3	508.3	829.7	769.6	60.11	13.804		
11,780.0	8,968.4	12,860.9	9,776.4	30.5	31.0	167.47	-2,577.3	507.6	829.6	768.6	61.09	13.580		
11,800.0	8,968.4	12,880.9	9,776.4	30.6	31.1	167.47	-2,597.3	507.4	829.6	768.3	61.34	13.526		
11,875.0	8,968.5	12,955.9	9,776.5	31.0	31.5	167.47	-2,672.3	506.7	829.6	767.3	62.27	13.322		
11,900.0	8,968.5	12,980.9	9,776.5	31.1	31.6	167.47	-2,697.3	506.5	829.6	767.0	62.58	13.256		
11,970.0	8,968.6	13,050.9	9,776.5	31.5	32.0	167.47	-2,767.3	505.9	829.6	766.1	63.47	13.071		
12,000.0	8,968.6	13,080.9	9,776.5	31.7	32.2	167.47	-2,797.3	505.6	829.5	765.7	63.85	12.993		
12,065.0	8,968.7	13,145.9	9,776.6	32.0	32.5	167.47	-2,862.3	505.1	829.5	764.8	64.67	12.826		
12,100.0	8,968.7	13,180.9	9,776.6	32.2	32.7	167.47	-2,897.3	504.7	829.5	764.4	65.12	12.738		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #804H - OWB - PWP1													Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9292-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Rule Assigned:				Warning	
Measured 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		
12,160.0	8,968.8	13,240.9	9,776.6	32.5	33.1	167.47	-2,957.3	504.2	829.5	763.6	65.89	12.589		
12,200.0	8,968.8	13,280.9	9,776.6	32.8	33.3	167.47	-2,997.3	503.9	829.5	763.0	66.41	12.491		
12,255.0	8,968.9	13,335.9	9,776.7	33.1	33.6	167.47	-3,052.3	503.4	829.4	762.3	67.12	12.357		
12,300.0	8,968.9	13,380.9	9,776.7	33.3	33.9	167.47	-3,097.3	503.0	829.4	761.7	67.70	12.250		
12,350.0	8,969.0	13,430.9	9,776.7	33.6	34.2	167.47	-3,147.3	502.5	829.4	761.0	68.36	12.133		
12,400.0	8,969.0	13,480.9	9,776.7	33.9	34.5	167.47	-3,197.3	502.1	829.4	760.3	69.01	12.017		
12,445.0	8,969.1	13,525.9	9,776.8	34.2	34.7	167.47	-3,242.3	501.7	829.3	759.7	69.61	11.914		
12,500.0	8,969.1	13,580.9	9,776.8	34.5	35.1	167.47	-3,297.3	501.2	829.3	759.0	70.34	11.791		
12,540.0	8,969.2	13,620.9	9,776.8	34.7	35.3	167.47	-3,337.3	500.8	829.3	758.4	70.87	11.702		
12,600.0	8,969.2	13,680.9	9,776.8	35.1	35.7	167.47	-3,397.3	500.3	829.3	757.6	71.67	11.571		
12,635.0	8,969.3	13,715.9	9,776.9	35.3	35.9	167.47	-3,432.3	500.0	829.2	757.1	72.13	11.496		
12,700.0	8,969.3	13,780.9	9,776.9	35.6	36.3	167.47	-3,497.3	499.4	829.2	756.2	73.01	11.358		
12,730.0	8,969.4	13,810.9	9,776.9	35.8	36.5	167.47	-3,527.3	499.2	829.2	755.8	73.41	11.296		
12,800.0	8,969.4	13,880.9	9,776.9	36.3	36.9	167.46	-3,597.3	498.5	829.2	754.8	74.35	11.152		
12,825.0	8,969.5	13,905.9	9,777.0	36.4	37.0	167.46	-3,622.3	498.3	829.2	754.5	74.69	11.101		
12,900.0	8,969.5	13,980.9	9,777.0	36.9	37.5	167.46	-3,697.3	497.7	829.1	753.4	75.71	10.951		
12,920.0	8,969.6	14,000.9	9,777.0	37.0	37.6	167.46	-3,717.3	497.5	829.1	753.1	75.98	10.912		
13,000.0	8,969.6	14,080.9	9,777.1	37.5	38.1	167.46	-3,797.3	496.8	829.1	752.0	77.08	10.756		
13,015.0	8,969.7	14,095.9	9,777.1	37.6	38.2	167.46	-3,812.3	496.6	829.1	751.8	77.28	10.728		
13,100.0	8,969.7	14,180.9	9,777.1	38.1	38.8	167.46	-3,897.3	495.9	829.0	750.6	78.45	10.568		
13,110.0	8,969.8	14,190.9	9,777.1	38.2	38.8	167.46	-3,907.3	495.8	829.0	750.4	78.59	10.549		
13,200.0	8,969.8	14,280.9	9,777.2	38.7	39.4	167.46	-3,997.3	495.0	829.0	749.2	79.83	10.384		
13,205.0	8,969.8	14,285.9	9,777.2	38.7	39.4	167.46	-4,002.3	495.0	829.0	749.1	79.90	10.375		
13,300.0	8,969.9	14,380.9	9,777.2	39.3	40.1	167.46	-4,097.3	494.1	828.9	747.7	81.22	10.206		
13,395.0	8,970.0	14,475.9	9,777.3	40.0	40.7	167.46	-4,192.3	493.3	828.9	746.4	82.54	10.042		
13,400.0	8,970.0	14,480.9	9,777.3	40.0	40.7	167.46	-4,197.3	493.2	828.9	746.3	82.61	10.034		
13,490.0	8,970.1	14,570.9	9,777.3	40.6	41.3	167.46	-4,287.3	492.4	828.8	745.0	83.87	9.883		
13,500.0	8,970.1	14,580.9	9,777.3	40.6	41.4	167.46	-4,297.3	492.3	828.8	744.8	84.01	9.866		
13,585.0	8,970.2	14,665.9	9,777.4	41.2	41.9	167.46	-4,382.3	491.6	828.8	743.6	85.20	9.727		
13,600.0	8,970.2	14,680.9	9,777.4	41.3	42.0	167.46	-4,397.3	491.5	828.8	743.4	85.42	9.703		
13,680.0	8,970.3	14,760.9	9,777.4	41.8	42.6	167.46	-4,477.3	490.7	828.8	742.2	86.54	9.576		
13,700.0	8,970.3	14,780.9	9,777.4	41.9	42.7	167.46	-4,497.3	490.6	828.7	741.9	86.83	9.545		
13,775.0	8,970.4	14,855.9	9,777.5	42.4	43.2	167.46	-4,572.3	489.9	828.7	740.8	87.89	9.429		
13,800.0	8,970.4	14,880.9	9,777.5	42.6	43.4	167.46	-4,597.3	489.7	828.7	740.5	88.24	9.391		
13,870.0	8,970.5	14,950.9	9,777.5	43.0	43.8	167.46	-4,667.3	489.1	828.7	739.4	89.24	9.286		
13,900.0	8,970.5	14,980.9	9,777.5	43.2	44.0	167.46	-4,697.2	488.8	828.7	739.0	89.66	9.242		
13,965.0	8,970.6	15,045.9	9,777.6	43.7	44.5	167.46	-4,762.2	488.2	828.6	738.0	90.59	9.147		
14,000.0	8,970.6	15,080.9	9,777.6	43.9	44.7	167.46	-4,797.2	487.9	828.6	737.5	91.09	9.097		
14,060.0	8,970.7	15,140.9	9,777.6	44.3	45.1	167.46	-4,857.2	487.4	828.6	736.6	91.95	9.011		
14,100.0	8,970.7	15,180.9	9,777.6	44.6	45.4	167.46	-4,897.2	487.0	828.6	736.0	92.52	8.955		
14,155.0	8,970.8	15,235.9	9,777.7	44.9	45.8	167.45	-4,952.2	486.5	828.5	735.2	93.31	8.879		
14,200.0	8,970.8	15,280.9	9,777.7	45.2	46.1	167.45	-4,997.2	486.1	828.5	734.6	93.96	8.818		
14,250.0	8,970.9	15,330.9	9,777.7	45.6	46.4	167.45	-5,047.2	485.7	828.5	733.8	94.68	8.751		
14,300.0	8,971.0	15,380.9	9,777.7	45.9	46.7	167.45	-5,097.2	485.3	828.5	733.1	95.40	8.685		
14,345.0	8,971.0	15,425.9	9,777.8	46.2	47.1	167.45	-5,142.2	484.9	828.4	732.4	96.05	8.626		
14,400.0	8,971.1	15,480.9	9,777.8	46.6	47.4	167.45	-5,197.2	484.4	828.4	731.6	96.84	8.555		
14,440.0	8,971.1	15,520.9	9,777.8	46.8	47.7	167.45	-5,237.2	484.0	828.4	731.0	97.42	8.504		
14,500.0	8,971.2	15,580.9	9,777.8	47.2	48.1	167.45	-5,297.2	483.5	828.4	730.1	98.29	8.428		
14,535.0	8,971.2	15,615.9	9,777.9	47.5	48.4	167.45	-5,332.2	483.2	828.4	729.6	98.79	8.385		
14,600.0	8,971.3	15,680.9	9,777.9	47.9	48.8	167.45	-5,397.2	482.6	828.3	728.6	99.74	8.305		
14,630.0	8,971.3	15,710.9	9,777.9	48.1	49.0	167.45	-5,427.2	482.3	828.3	728.1	100.17	8.269		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	Reference	Offset	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation
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)	Warning
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	
14,700.0	8,971.4	15,780.9	9,777.9	48.6	49.5	167.45	-5,497.2	481.7	828.3	727.1	101.19	8.185
14,725.0	8,971.4	15,805.9	9,778.0	48.8	49.7	167.45	-5,522.2	481.5	828.3	726.7	101.56	8.156
14,800.0	8,971.5	15,880.9	9,778.0	49.3	50.2	167.45	-5,597.2	480.8	828.2	725.6	102.65	8.069
14,820.0	8,971.5	15,900.9	9,778.0	49.4	50.3	167.45	-5,617.2	480.6	828.2	725.3	102.94	8.046
14,900.0	8,971.6	15,980.9	9,778.1	50.0	50.9	167.45	-5,697.2	479.9	828.2	724.1	104.11	7.955
14,915.0	8,971.6	15,995.9	9,778.1	50.1	51.0	167.45	-5,712.2	479.8	828.2	723.9	104.33	7.938
15,000.0	8,971.7	16,080.9	9,778.1	50.7	51.6	167.45	-5,797.2	479.0	828.1	722.6	105.57	7.844
15,010.0	8,971.7	16,090.9	9,778.1	50.7	51.7	167.45	-5,807.2	479.0	828.1	722.4	105.72	7.833
15,100.0	8,971.8	16,180.9	9,778.2	51.4	52.3	167.45	-5,897.2	478.2	828.1	721.1	107.04	7.736
15,105.0	8,971.8	16,185.9	9,778.2	51.4	52.3	167.45	-5,902.2	478.1	828.1	721.0	107.11	7.731
15,200.0	8,971.9	16,280.9	9,778.2	52.1	53.0	167.45	-5,997.2	477.3	828.0	719.5	108.51	7.631
15,295.0	8,972.0	16,375.9	9,778.3	52.7	53.7	167.45	-6,092.2	476.4	828.0	718.1	109.91	7.533
15,300.0	8,972.0	16,380.9	9,778.3	52.8	53.7	167.45	-6,097.2	476.4	828.0	718.0	109.98	7.528
15,390.0	8,972.0	16,470.9	9,778.3	53.4	54.3	167.45	-6,187.2	475.6	828.0	716.6	111.31	7.438
15,400.0	8,972.1	16,480.9	9,778.3	53.5	54.4	167.45	-6,197.2	475.5	828.0	716.5	111.46	7.428
15,485.0	8,972.1	16,565.9	9,778.4	54.1	55.0	167.44	-6,282.2	474.8	827.9	715.2	112.71	7.345
15,500.0	8,972.2	16,580.9	9,778.4	54.2	55.1	167.44	-6,297.2	474.6	827.9	715.0	112.94	7.331
15,580.0	8,972.2	16,660.9	9,778.4	54.7	55.7	167.44	-6,377.2	473.9	827.9	713.8	114.12	7.254
15,600.0	8,972.3	16,680.9	9,778.4	54.9	55.8	167.44	-6,397.2	473.7	827.9	713.4	114.42	7.236
15,675.0	8,972.3	16,755.9	9,778.5	55.4	56.4	167.44	-6,472.2	473.1	827.8	712.3	115.53	7.166
15,700.0	8,972.4	16,780.9	9,778.5	55.6	56.6	167.44	-6,497.2	472.8	827.8	711.9	115.90	7.143
15,770.0	8,972.4	16,850.9	9,778.5	56.1	57.1	167.44	-6,567.2	472.2	827.8	710.8	116.94	7.079
15,800.0	8,972.5	16,880.9	9,778.5	56.3	57.3	167.44	-6,597.2	472.0	827.8	710.4	117.38	7.052
15,865.0	8,972.5	16,945.9	9,778.6	56.7	57.7	167.44	-6,662.2	471.4	827.7	709.4	118.35	6.994
15,900.0	8,972.6	16,980.9	9,778.6	57.0	58.0	167.44	-6,697.2	471.1	827.7	708.9	118.87	6.963
15,960.0	8,972.6	17,040.9	9,778.6	57.4	58.4	167.44	-6,757.2	470.5	827.7	707.9	119.76	6.911
16,000.0	8,972.7	17,080.9	9,778.6	57.7	58.7	167.44	-6,797.2	470.2	827.7	707.3	120.36	6.877
16,055.0	8,972.7	17,135.9	9,778.7	58.1	59.1	167.44	-6,852.2	469.7	827.6	706.5	121.18	6.830
16,100.0	8,972.8	17,180.9	9,778.7	58.4	59.4	167.44	-6,897.2	469.3	827.6	705.8	121.85	6.792
16,150.0	8,972.8	17,230.9	9,778.7	58.8	59.8	167.44	-6,947.2	468.9	827.6	705.0	122.60	6.751
16,200.0	8,972.9	17,280.9	9,778.7	59.1	60.1	167.44	-6,997.2	468.4	827.6	704.2	123.34	6.710
16,245.0	8,972.9	17,325.9	9,778.8	59.4	60.5	167.44	-7,042.2	468.0	827.6	703.5	124.01	6.673
16,300.0	8,973.0	17,380.9	9,778.8	59.8	60.9	167.44	-7,097.2	467.5	827.5	702.7	124.84	6.629
16,340.0	8,973.0	17,420.9	9,778.8	60.1	61.1	167.44	-7,137.2	467.2	827.5	702.1	125.44	6.597
16,400.0	8,973.1	17,480.9	9,778.8	60.5	61.6	167.44	-7,197.2	466.6	827.5	701.2	126.33	6.550
16,435.0	8,973.1	17,515.9	9,778.9	60.8	61.8	167.44	-7,232.1	466.3	827.5	700.6	126.86	6.523
16,500.0	8,973.2	17,580.9	9,778.9	61.3	62.3	167.44	-7,297.1	465.8	827.4	699.6	127.83	6.473
16,530.0	8,973.2	17,610.9	9,778.9	61.5	62.5	167.44	-7,327.1	465.5	827.4	699.1	128.28	6.450
16,600.0	8,973.3	17,680.9	9,778.9	62.0	63.0	167.44	-7,397.1	464.9	827.4	698.1	129.33	6.397
16,625.0	8,973.3	17,705.9	9,779.0	62.1	63.2	167.44	-7,422.1	464.7	827.4	697.7	129.71	6.379
16,700.0	8,973.4	17,780.9	9,779.0	62.7	63.7	167.44	-7,497.1	464.0	827.3	696.5	130.83	6.324
16,720.0	8,973.4	17,800.9	9,779.0	62.8	63.9	167.44	-7,517.1	463.8	827.3	696.2	131.13	6.309
16,800.0	8,973.5	17,880.9	9,779.1	63.4	64.5	167.44	-7,597.1	463.1	827.3	695.0	132.34	6.252
16,815.0	8,973.5	17,895.9	9,779.1	63.5	64.6	167.43	-7,612.1	463.0	827.3	694.7	132.56	6.241
16,900.0	8,973.6	17,980.9	9,779.1	64.1	65.2	167.43	-7,697.1	462.2	827.3	693.4	133.84	6.181
16,910.0	8,973.6	17,990.9	9,779.1	64.2	65.3	167.43	-7,707.1	462.1	827.2	693.3	133.99	6.174
17,000.0	8,973.7	18,080.9	9,779.2	64.8	65.9	167.43	-7,797.1	461.3	827.2	691.9	135.35	6.112
17,005.0	8,973.7	18,085.9	9,779.2	64.9	66.0	167.43	-7,802.1	461.3	827.2	691.8	135.42	6.108
17,100.0	8,973.8	18,180.9	9,779.2	65.6	66.7	167.43	-7,897.1	460.4	827.2	690.3	136.85	6.044
17,195.0	8,973.9	18,275.9	9,779.3	66.3	67.3	167.43	-7,992.1	459.6	827.1	688.8	138.29	5.981
17,200.0	8,973.9	18,280.9	9,779.3	66.3	67.4	167.43	-7,997.1	459.6	827.1	688.8	138.36	5.978

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
17,290.0	8,974.0	18,370.9	9,779.3	66.9	68.0	167.43	-8,087.1	458.8	827.1	687.4	139.72	5.919			
17,300.0	8,974.0	18,380.9	9,779.3	67.0	68.1	167.43	-8,097.1	458.7	827.1	687.2	139.87	5.913			
17,385.0	8,974.1	18,465.9	9,779.4	67.6	68.7	167.43	-8,182.1	457.9	827.0	685.9	141.16	5.859			
17,400.0	8,974.1	18,480.9	9,779.4	67.7	68.8	167.43	-8,197.1	457.8	827.0	685.6	141.38	5.850			
17,480.0	8,974.2	18,560.9	9,779.4	68.3	69.4	167.43	-8,277.1	457.1	827.0	684.4	142.59	5.800			
17,500.0	8,974.2	18,580.9	9,779.4	68.5	69.6	167.43	-8,297.1	456.9	827.0	684.1	142.90	5.787			
17,575.0	8,974.2	18,655.9	9,779.5	69.0	70.1	167.43	-8,372.1	456.2	826.9	682.9	144.03	5.741			
17,600.0	8,974.3	18,680.9	9,779.5	69.2	70.3	167.43	-8,397.1	456.0	826.9	682.5	144.41	5.726			
17,670.0	8,974.3	18,750.9	9,779.5	69.7	70.8	167.43	-8,467.1	455.4	826.9	681.4	145.47	5.684			
17,700.0	8,974.4	18,780.9	9,779.5	69.9	71.0	167.43	-8,497.1	455.1	826.9	681.0	145.92	5.667			
17,765.0	8,974.4	18,845.9	9,779.6	70.4	71.5	167.43	-8,562.1	454.6	826.8	679.9	146.91	5.628			
17,800.0	8,974.5	18,880.9	9,779.6	70.7	71.8	167.43	-8,597.1	454.2	826.8	679.4	147.44	5.608			
17,860.0	8,974.5	18,940.9	9,779.6	71.1	72.2	167.43	-8,657.1	453.7	826.8	678.5	148.35	5.573			
17,900.0	8,974.6	18,980.9	9,779.6	71.4	72.5	167.43	-8,697.1	453.4	826.8	677.8	148.96	5.551			
17,955.0	8,974.6	19,035.9	9,779.7	71.8	72.9	167.43	-8,752.1	452.9	826.8	677.0	149.79	5.519			
18,000.0	8,974.7	19,080.9	9,779.7	72.1	73.2	167.43	-8,797.1	452.5	826.7	676.3	150.47	5.494			
18,050.0	8,974.7	19,130.9	9,779.7	72.5	73.6	167.43	-8,847.1	452.0	826.7	675.5	151.23	5.466			
18,100.0	8,974.8	19,180.9	9,779.7	72.8	74.0	167.43	-8,897.1	451.6	826.7	674.7	151.99	5.439			
18,145.0	8,974.8	19,225.9	9,779.8	73.2	74.3	167.42	-8,942.1	451.2	826.7	674.0	152.68	5.415			
18,200.0	8,974.9	19,280.9	9,779.8	73.6	74.7	167.42	-8,997.1	450.7	826.6	673.1	153.51	5.385			
18,240.0	8,974.9	19,320.9	9,779.8	73.9	75.0	167.42	-9,037.1	450.3	826.6	672.5	154.12	5.363			
18,300.0	8,975.0	19,380.9	9,779.8	74.3	75.5	167.42	-9,097.1	449.8	826.6	671.6	155.03	5.332			
18,335.0	8,975.0	19,415.9	9,779.9	74.6	75.7	167.42	-9,132.1	449.5	826.6	671.0	155.57	5.313			
18,400.0	8,975.1	19,480.9	9,779.9	75.0	76.2	167.42	-9,197.1	448.9	826.6	670.0	156.56	5.280			
18,430.0	8,975.1	19,510.9	9,779.9	75.3	76.4	167.42	-9,227.1	448.7	826.5	669.5	157.01	5.264			
18,500.0	8,975.2	19,580.9	9,780.0	75.8	76.9	167.42	-9,297.1	448.0	826.5	668.4	158.08	5.228			
18,525.0	8,975.2	19,605.9	9,780.0	76.0	77.1	167.42	-9,322.1	447.8	826.5	668.0	158.46	5.216			
18,600.0	8,975.3	19,680.9	9,780.0	76.5	77.7	167.42	-9,397.1	447.2	826.5	666.9	159.60	5.178			
18,620.0	8,975.3	19,700.9	9,780.0	76.7	77.8	167.42	-9,417.1	447.0	826.4	666.5	159.91	5.168			
18,700.0	8,975.4	19,780.9	9,780.1	77.2	78.4	167.42	-9,497.1	446.3	826.4	665.3	161.13	5.129			
18,715.0	8,975.4	19,795.9	9,780.1	77.4	78.5	167.42	-9,512.1	446.1	826.4	665.0	161.36	5.122			
18,800.0	8,975.5	19,880.9	9,780.1	78.0	79.1	167.42	-9,597.1	445.4	826.4	663.7	162.65	5.081			
18,810.0	8,975.5	19,890.9	9,780.1	78.0	79.2	167.42	-9,607.1	445.3	826.4	663.6	162.81	5.076			
18,900.0	8,975.6	19,980.9	9,780.2	78.7	79.9	167.42	-9,697.1	444.5	826.3	662.1	164.18	5.033			
18,905.0	8,975.6	19,985.9	9,780.2	78.7	79.9	167.42	-9,702.1	444.5	826.3	662.1	164.26	5.031			
19,000.0	8,975.7	20,080.9	9,780.2	79.4	80.6	167.42	-9,797.0	443.6	826.3	660.6	165.71	4.986			
19,095.0	8,975.8	20,175.9	9,780.3	80.1	81.3	167.42	-9,892.0	442.8	826.2	659.1	167.16	4.943			
19,100.0	8,975.8	20,180.9	9,780.3	80.2	81.4	167.42	-9,897.0	442.7	826.2	659.0	167.23	4.941			
19,190.0	8,975.9	20,270.9	9,780.3	80.8	82.0	167.42	-9,987.0	441.9	826.2	657.6	168.61	4.900			
19,200.0	8,975.9	20,280.9	9,780.3	80.9	82.1	167.42	-9,997.0	441.8	826.2	657.4	168.76	4.896			
19,285.0	8,976.0	20,365.9	9,780.4	81.5	82.7	167.42	-10,082.0	441.1	826.1	656.1	170.06	4.858			
19,300.0	8,976.0	20,380.9	9,780.4	81.7	82.9	167.42	-10,097.0	441.0	826.1	655.8	170.29	4.851			
19,380.0	8,976.1	20,460.9	9,780.4	82.3	83.4	167.42	-10,177.0	440.2	826.1	654.6	171.52	4.816			
19,400.0	8,976.1	20,480.9	9,780.4	82.4	83.6	167.42	-10,197.0	440.1	826.1	654.3	171.82	4.808			
19,475.0	8,976.2	20,555.9	9,780.5	83.0	84.1	167.41	-10,272.0	439.4	826.1	653.1	172.97	4.776			
19,500.0	8,976.2	20,580.9	9,780.5	83.1	84.3	167.41	-10,297.0	439.2	826.0	652.7	173.35	4.765			
19,570.0	8,976.3	20,650.9	9,780.5	83.7	84.9	167.41	-10,367.0	438.6	826.0	651.6	174.42	4.736			
19,600.0	8,976.3	20,680.9	9,780.5	83.9	85.1	167.41	-10,397.0	438.3	826.0	651.1	174.88	4.723			
19,665.0	8,976.4	20,745.9	9,780.6	84.4	85.6	167.41	-10,462.0	437.7	826.0	650.1	175.88	4.696			
19,700.0	8,976.4	20,780.9	9,780.6	84.6	85.8	167.41	-10,497.0	437.4	825.9	649.5	176.41	4.682			
19,760.0	8,976.4	20,840.9	9,780.6	85.1	86.3	167.41	-10,557.0	436.9	825.9	648.6	177.33	4.657			

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)		
19,800.0	8,976.5	20,880.9	9,780.6	85.4	86.6	167.41	-10,597.0	436.5	825.9	648.0	177.95	4.641
19,855.0	8,976.5	20,935.9	9,780.7	85.8	87.0	167.41	-10,652.0	436.0	825.9	647.1	178.79	4.619
19,900.0	8,976.6	20,980.9	9,780.7	86.1	87.3	167.41	-10,697.0	435.6	825.9	646.4	179.48	4.601
19,950.0	8,976.6	21,030.9	9,780.7	86.5	87.7	167.41	-10,747.0	435.2	825.8	645.6	180.25	4.582
20,000.0	8,976.7	21,080.9	9,780.7	86.8	88.1	167.41	-10,797.0	434.8	825.8	644.8	181.01	4.562
20,045.0	8,976.7	21,125.9	9,780.8	87.2	88.4	167.41	-10,842.0	434.4	825.8	644.1	181.70	4.545
20,100.0	8,976.8	21,180.9	9,780.8	87.6	88.8	167.41	-10,897.0	433.9	825.8	643.2	182.55	4.523
20,140.0	8,976.8	21,220.9	9,780.8	87.9	89.1	167.41	-10,937.0	433.5	825.7	642.6	183.16	4.508
20,200.0	8,976.9	21,280.9	9,780.8	88.3	89.5	167.41	-10,997.0	433.0	825.7	641.6	184.08	4.486
20,235.0	8,976.9	21,315.9	9,780.9	88.6	89.8	167.41	-11,032.0	432.7	825.7	641.1	184.62	4.472
20,300.0	8,977.0	21,380.9	9,780.9	89.1	90.3	167.41	-11,097.0	432.1	825.7	640.0	185.62	4.448
20,330.0	8,977.0	21,410.9	9,780.9	89.3	90.5	167.41	-11,127.0	431.8	825.7	639.6	186.08	4.437
20,400.0	8,977.1	21,480.9	9,781.0	89.8	91.0	167.41	-11,197.0	431.2	825.6	638.5	187.16	4.411
20,425.0	8,977.1	21,505.9	9,781.0	90.0	91.2	167.41	-11,222.0	431.0	825.6	638.1	187.54	4.402
20,500.0	8,977.2	21,580.9	9,781.0	90.6	91.8	167.41	-11,297.0	430.3	825.6	636.9	188.69	4.375
20,520.0	8,977.2	21,600.9	9,781.0	90.7	91.9	167.41	-11,317.0	430.1	825.6	636.6	189.00	4.368
20,600.0	8,977.3	21,680.9	9,781.1	91.3	92.5	167.41	-11,397.0	429.4	825.5	635.3	190.23	4.340
20,615.0	8,977.3	21,695.9	9,781.1	91.4	92.6	167.41	-11,412.0	429.3	825.5	635.1	190.46	4.334
20,700.0	8,977.4	21,780.9	9,781.1	92.0	93.3	167.41	-11,497.0	428.6	825.5	633.7	191.77	4.305
20,710.0	8,977.4	21,790.9	9,781.1	92.1	93.3	167.41	-11,507.0	428.5	825.5	633.6	191.92	4.301
20,800.0	8,977.5	21,880.9	9,781.2	92.8	94.0	167.41	-11,597.0	427.7	825.4	632.1	193.30	4.270
20,805.0	8,977.5	21,885.9	9,781.2	92.8	94.1	167.40	-11,602.0	427.6	825.4	632.0	193.38	4.268
20,900.0	8,977.6	21,980.9	9,781.2	93.5	94.8	167.40	-11,697.0	426.8	825.4	630.5	194.84	4.236
20,995.0	8,977.7	22,075.9	9,781.3	94.2	95.5	167.40	-11,792.0	425.9	825.3	629.0	196.30	4.204
21,000.0	8,977.7	22,080.9	9,781.3	94.3	95.5	167.40	-11,797.0	425.9	825.3	629.0	196.38	4.203
21,090.0	8,977.8	22,170.9	9,781.3	94.9	96.2	167.40	-11,887.0	425.1	825.3	627.5	197.77	4.173
21,100.0	8,977.8	22,180.9	9,781.3	95.0	96.3	167.40	-11,897.0	425.0	825.3	627.4	197.92	4.170
21,185.0	8,977.9	22,265.9	9,781.4	95.7	96.9	167.40	-11,982.0	424.3	825.3	626.0	199.23	4.142
21,200.0	8,977.9	22,280.9	9,781.4	95.8	97.0	167.40	-11,997.0	424.1	825.2	625.8	199.46	4.137
21,280.0	8,978.0	22,360.9	9,781.4	96.4	97.6	167.40	-12,077.0	423.4	825.2	624.5	200.69	4.112
21,300.0	8,978.0	22,380.9	9,781.4	96.5	97.8	167.40	-12,097.0	423.2	825.2	624.2	201.00	4.105
21,375.0	8,978.1	22,455.9	9,781.5	97.1	98.3	167.40	-12,172.0	422.6	825.2	623.0	202.16	4.082
21,400.0	8,978.1	22,480.9	9,781.5	97.3	98.5	167.40	-12,197.0	422.3	825.2	622.6	202.54	4.074
21,470.0	8,978.2	22,550.9	9,781.5	97.8	99.0	167.40	-12,266.9	421.7	825.1	621.5	203.62	4.052
21,500.0	8,978.2	22,580.9	9,781.5	98.0	99.3	167.40	-12,296.9	421.5	825.1	621.0	204.08	4.043
21,565.0	8,978.3	22,645.9	9,781.6	98.5	99.7	167.40	-12,361.9	420.9	825.1	620.0	205.09	4.023
21,600.0	8,978.3	22,680.9	9,781.6	98.7	100.0	167.40	-12,396.9	420.6	825.1	619.4	205.63	4.012
21,660.0	8,978.4	22,740.9	9,781.6	99.2	100.5	167.40	-12,456.9	420.0	825.0	618.5	206.55	3.994
21,700.0	8,978.4	22,780.9	9,781.6	99.5	100.8	167.40	-12,496.9	419.7	825.0	617.8	207.17	3.982
21,755.0	8,978.5	22,835.9	9,781.7	99.9	101.2	167.40	-12,551.9	419.2	825.0	617.0	208.02	3.966
21,800.0	8,978.5	22,880.9	9,781.7	100.2	101.5	167.40	-12,596.9	418.8	825.0	616.3	208.71	3.953
21,850.0	8,978.6	22,930.9	9,781.7	100.6	101.9	167.40	-12,646.9	418.4	824.9	615.5	209.48	3.938
21,900.0	8,978.6	22,980.9	9,781.7	101.0	102.3	167.40	-12,696.9	417.9	824.9	614.7	210.25	3.923
21,945.0	8,978.7	23,025.9	9,781.8	101.3	102.6	167.40	-12,741.9	417.5	824.9	613.9	210.95	3.910
22,000.0	8,978.7	23,080.9	9,781.8	101.7	103.0	167.40	-12,796.9	417.0	824.9	613.1	211.80	3.895
22,040.0	8,978.7	23,120.9	9,781.8	102.0	103.3	167.40	-12,836.9	416.7	824.9	612.4	212.41	3.883
22,100.0	8,978.8	23,180.9	9,781.9	102.5	103.8	167.40	-12,896.9	416.1	824.8	611.5	213.34	3.866
22,135.0	8,978.8	23,215.9	9,781.9	102.7	104.0	167.39	-12,931.9	415.8	824.8	610.9	213.88	3.856
22,200.0	8,978.9	23,280.9	9,781.9	103.2	104.5	167.39	-12,996.9	415.3	824.8	609.9	214.88	3.838
22,230.0	8,978.9	23,310.9	9,781.9	103.5	104.7	167.39	-13,026.9	415.0	824.8	609.4	215.35	3.830
22,300.0	8,979.0	23,380.9	9,782.0	104.0	105.3	167.39	-13,096.9	414.4	824.7	608.3	216.43	3.811

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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		Rule Assigned:				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
22,325.0	8,979.0	23,405.9	9,782.0	104.2	105.4	167.39	-13,121.9	414.2	824.7	607.9	216.81	3.804		
22,400.0	8,979.1	23,480.9	9,782.0	104.7	106.0	167.39	-13,196.9	413.5	824.7	606.7	217.97	3.783		
22,420.0	8,979.1	23,500.9	9,782.0	104.9	106.2	167.39	-13,216.9	413.3	824.7	606.4	218.28	3.778		
22,500.0	8,979.2	23,580.9	9,782.1	105.5	106.8	167.39	-13,296.9	412.6	824.6	605.1	219.52	3.757		
22,515.0	8,979.2	23,595.9	9,782.1	105.6	106.9	167.39	-13,311.9	412.5	824.6	604.9	219.75	3.753		
22,600.0	8,979.3	23,680.9	9,782.1	106.2	107.5	167.39	-13,396.9	411.7	824.6	603.5	221.06	3.730		
22,610.0	8,979.3	23,690.9	9,782.1	106.3	107.6	167.39	-13,406.9	411.6	824.6	603.4	221.22	3.728		
22,700.0	8,979.4	23,780.9	9,782.2	107.0	108.3	167.39	-13,496.9	410.8	824.5	601.9	222.61	3.704		
22,705.0	8,979.4	23,785.9	9,782.2	107.0	108.3	167.39	-13,501.9	410.8	824.5	601.9	222.68	3.703		
22,800.0	8,979.5	23,880.9	9,782.2	107.7	109.0	167.39	-13,596.9	409.9	824.5	600.3	224.15	3.678		
22,895.0	8,979.6	23,975.9	9,782.3	108.4	109.7	167.39	-13,691.9	409.1	824.5	598.8	225.62	3.654		
22,900.0	8,979.6	23,980.9	9,782.3	108.5	109.8	167.39	-13,696.9	409.1	824.4	598.8	225.70	3.653		
22,990.0	8,979.7	24,070.9	9,782.3	109.2	110.4	167.39	-13,786.9	408.3	824.4	597.3	227.09	3.630		
23,000.0	8,979.7	24,080.9	9,782.3	109.2	110.5	167.39	-13,796.9	408.2	824.4	597.2	227.25	3.628		
23,085.0	8,979.8	24,165.9	9,782.4	109.9	111.2	167.39	-13,881.9	407.4	824.4	595.8	228.56	3.607		
23,100.0	8,979.8	24,180.9	9,782.4	110.0	111.3	167.39	-13,896.9	407.3	824.4	595.6	228.79	3.603		
23,180.0	8,979.9	24,260.9	9,782.4	110.6	111.9	167.39	-13,976.9	406.6	824.3	594.3	230.03	3.584		
23,200.0	8,979.9	24,280.9	9,782.4	110.7	112.0	167.39	-13,996.9	406.4	824.3	594.0	230.34	3.579		
23,275.0	8,980.0	24,355.9	9,782.5	111.3	112.6	167.39	-14,071.9	405.7	824.3	592.8	231.50	3.561		
23,300.0	8,980.0	24,380.9	9,782.5	111.5	112.8	167.39	-14,096.9	405.5	824.3	592.4	231.89	3.555		
23,370.0	8,980.1	24,450.9	9,782.5	112.0	113.3	167.39	-14,166.9	404.9	824.2	591.3	232.97	3.538		
23,400.0	8,980.1	24,480.9	9,782.5	112.2	113.5	167.39	-14,196.9	404.6	824.2	590.8	233.43	3.531		
23,465.0	8,980.2	24,545.9	9,782.6	112.7	114.0	167.38	-14,261.9	404.1	824.2	589.7	234.44	3.516		
23,500.0	8,980.2	24,580.9	9,782.6	113.0	114.3	167.38	-14,296.9	403.7	824.2	589.2	234.98	3.507		
23,560.0	8,980.3	24,640.9	9,782.6	113.4	114.7	167.38	-14,356.9	403.2	824.1	588.2	235.91	3.493		
23,600.0	8,980.3	24,680.9	9,782.6	113.7	115.0	167.38	-14,396.9	402.9	824.1	587.6	236.53	3.484		
23,655.0	8,980.4	24,735.9	9,782.7	114.1	115.4	167.38	-14,451.9	402.4	824.1	586.7	237.38	3.472		
23,700.0	8,980.4	24,780.9	9,782.7	114.5	115.8	167.38	-14,496.9	402.0	824.1	586.0	238.08	3.461		
23,750.0	8,980.5	24,830.9	9,782.7	114.9	116.2	167.38	-14,546.9	401.5	824.1	585.2	238.85	3.450		
23,800.0	8,980.5	24,880.9	9,782.7	115.2	116.5	167.38	-14,596.9	401.1	824.0	584.4	239.63	3.439		
23,845.0	8,980.6	24,925.9	9,782.8	115.6	116.9	167.38	-14,641.9	400.7	824.0	583.7	240.32	3.429		
23,900.0	8,980.6	24,980.9	9,782.8	116.0	117.3	167.38	-14,696.9	400.2	824.0	582.8	241.18	3.417		
23,940.0	8,980.7	25,020.9	9,782.8	116.3	117.6	167.38	-14,736.9	399.8	824.0	582.2	241.80	3.408		
24,000.0	8,980.7	25,080.9	9,782.9	116.7	118.0	167.38	-14,796.8	399.3	823.9	581.2	242.73	3.395		
24,035.0	8,980.8	25,115.9	9,782.9	117.0	118.3	167.38	-14,831.8	399.0	823.9	580.7	243.27	3.387		
24,100.0	8,980.8	25,180.9	9,782.9	117.5	118.8	167.38	-14,896.8	398.4	823.9	579.6	244.28	3.373		
24,130.0	8,980.9	25,210.9	9,782.9	117.7	119.0	167.38	-14,926.8	398.2	823.9	579.1	244.74	3.366		
24,147.5	8,980.9	25,228.4	9,782.9	117.8	119.2	167.38	-14,944.4	398.0	823.9	578.9	245.01	3.363		
24,200.0	8,980.9	25,280.9	9,783.0	118.2	119.6	167.38	-14,996.8	397.5	823.8	578.0	245.82	3.351		
24,225.0	8,980.9	25,305.9	9,783.0	118.4	119.7	167.38	-15,021.8	397.3	823.8	577.6	246.21	3.346		
24,277.5	8,981.0	25,358.4	9,783.0	118.8	120.1	167.38	-15,074.4	396.9	823.8	576.8	247.02	3.335		
24,278.2	8,981.0	25,359.1	9,783.0	118.8	120.1	167.38	-15,075.0	396.8	823.8	576.8	247.03	3.335 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 #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	-31.35	148.4	-90.4	173.8				
95.0	95.0	93.0	93.0	3.0	3.0	-31.35	148.4	-90.4	173.8	167.7	6.04	28.791	
100.0	100.0	98.0	98.0	3.0	3.0	-31.35	148.4	-90.4	173.8	167.7	6.04	28.767	
190.0	190.0	188.0	188.0	3.1	3.1	-31.35	148.4	-90.4	173.8	167.5	6.25	27.788	
200.0	200.0	198.0	198.0	3.1	3.1	-31.35	148.4	-90.4	173.8	167.5	6.29	27.635	
285.0	285.0	283.0	283.0	3.3	3.2	-31.35	148.4	-90.4	173.8	167.3	6.49	26.759	
300.0	300.0	298.0	298.0	3.3	3.3	-31.35	148.4	-90.4	173.8	167.2	6.53	26.591	
380.0	380.0	378.0	378.0	3.4	3.4	-31.35	148.4	-90.4	173.8	167.0	6.73	25.834	
400.0	400.0	398.0	398.0	3.4	3.4	-31.35	148.4	-90.4	173.8	167.0	6.78	25.638	
475.0	475.0	473.0	473.0	3.5	3.5	-31.35	148.4	-90.4	173.8	166.8	6.96	24.984	
500.0	500.0	498.0	498.0	3.5	3.5	-31.35	148.4	-90.4	173.8	166.7	7.02	24.762	
570.0	570.0	568.0	568.0	3.6	3.6	-31.35	148.4	-90.4	173.8	166.6	7.18	24.198	
600.0	600.0	598.0	598.0	3.6	3.6	-31.35	148.4	-90.4	173.8	166.5	7.25	23.954	
665.0	665.0	663.0	663.0	3.7	3.7	-31.35	148.4	-90.4	173.8	166.4	7.40	23.467	
700.0	700.0	698.0	698.0	3.8	3.8	-31.35	148.4	-90.4	173.8	166.3	7.49	23.206	
760.0	760.0	758.0	758.0	3.8	3.8	-31.35	148.4	-90.4	173.8	166.1	7.63	22.787	
800.0	800.0	798.0	798.0	3.9	3.9	-31.35	148.4	-90.4	173.8	166.0	7.72	22.509	
855.0	855.0	853.0	853.0	4.0	3.9	-31.35	148.4	-90.4	173.8	165.9	7.84	22.150	
900.0	900.0	898.0	898.0	4.0	4.0	-31.35	148.4	-90.4	173.8	165.8	7.95	21.859	
950.0	950.0	948.0	948.0	4.1	4.1	-31.35	148.4	-90.4	173.8	165.7	8.06	21.553	
1,000.0	1,000.0	998.0	998.0	4.1	4.1	-31.35	148.4	-90.4	173.8	165.6	8.18	21.251	
1,045.0	1,045.0	1,043.0	1,043.0	4.2	4.2	-31.35	148.4	-90.4	173.8	165.5	8.28	20.992	
1,100.0	1,100.0	1,098.0	1,098.0	4.2	4.2	-31.35	148.4	-90.4	173.8	165.4	8.40	20.680	
1,140.0	1,140.0	1,138.0	1,138.0	4.3	4.3	-31.35	148.4	-90.4	173.8	165.3	8.49	20.463	
1,200.0	1,200.0	1,198.0	1,198.0	4.4	4.4	-31.35	148.4	-90.4	173.8	165.1	8.63	20.143	
1,235.0	1,235.0	1,233.0	1,233.0	4.4	4.4	-31.35	148.4	-90.4	173.8	165.1	8.70	19.964	
1,300.0	1,300.0	1,298.0	1,298.0	4.5	4.5	-31.35	148.4	-90.4	173.8	164.9	8.85	19.636	
1,330.0	1,330.0	1,328.0	1,328.0	4.5	4.5	-31.35	148.4	-90.4	173.8	164.9	8.92	19.491	
1,400.0	1,400.0	1,398.0	1,398.0	4.6	4.6	-31.35	148.4	-90.4	173.8	164.7	9.07	19.158	
1,425.0	1,425.0	1,423.0	1,423.0	4.6	4.6	-31.35	148.4	-90.4	173.8	164.6	9.12	19.043	
1,500.0	1,500.0	1,498.0	1,498.0	4.7	4.7	-31.35	148.4	-90.4	173.8	164.5	9.29	18.705 CC, ES	
1,520.0	1,520.0	1,517.0	1,517.0	4.7	4.8	-92.86	148.4	-90.4	173.8	164.5	9.34	18.601	
1,600.0	1,600.0	1,592.4	1,592.3	4.8	4.9	-93.30	149.7	-91.1	175.4	165.9	9.56	18.356	
1,615.0	1,615.0	1,606.5	1,606.5	4.9	4.9	-93.45	150.2	-91.3	176.0	166.4	9.61	18.307	
1,700.0	1,699.8	1,686.3	1,686.2	5.1	5.1	-94.63	153.8	-93.1	180.6	170.7	9.93	18.183 SF	
1,710.0	1,709.8	1,695.7	1,695.5	5.1	5.2	-94.81	154.4	-93.4	181.4	171.4	9.97	18.186	
1,800.0	1,799.5	1,779.6	1,779.2	5.3	5.4	-96.66	160.6	-96.6	189.6	179.3	10.31	18.389	
1,805.0	1,804.4	1,784.3	1,783.8	5.3	5.4	-96.78	161.0	-96.8	190.1	179.8	10.33	18.409	
1,900.0	1,898.7	1,872.1	1,871.0	5.6	5.6	-99.16	169.9	-101.3	202.5	191.8	10.69	18.953	
1,995.0	1,992.5	1,958.8	1,956.8	5.9	5.9	-101.73	181.1	-106.9	218.7	207.7	11.05	19.793	
2,000.0	1,997.5	1,963.3	1,961.3	5.9	5.9	-101.87	181.8	-107.3	219.7	208.6	11.07	19.845	
2,090.0	2,085.8	2,044.2	2,041.0	6.2	6.2	-104.32	194.4	-113.7	238.9	227.5	11.43	20.907	
2,100.0	2,095.6	2,053.1	2,049.7	6.3	6.2	-104.58	195.9	-114.4	241.3	229.8	11.47	21.039	
2,185.0	2,178.5	2,128.4	2,123.4	6.6	6.4	-106.78	209.7	-121.4	263.1	251.3	11.78	22.344	
2,200.1	2,193.2	2,142.8	2,137.4	6.6	6.5	-107.20	212.4	-122.8	267.3	255.5	11.84	22.585	
2,280.0	2,270.7	2,218.6	2,211.4	6.9	6.7	-109.63	227.1	-130.2	289.8	277.6	12.16	23.821	
2,300.0	2,290.1	2,237.5	2,229.9	6.9	6.7	-110.18	230.7	-132.1	295.5	283.2	12.25	24.110	
2,375.0	2,362.9	2,308.7	2,299.4	7.2	7.0	-112.08	244.5	-139.0	317.0	304.4	12.60	25.154	
2,400.0	2,387.1	2,332.4	2,322.5	7.3	7.0	-112.66	249.1	-141.3	324.3	311.6	12.72	25.487	
2,470.0	2,455.0	2,398.8	2,387.4	7.5	7.3	-114.15	261.9	-147.8	344.7	331.7	13.07	26.385	
2,500.0	2,484.1	2,427.3	2,415.2	7.6	7.3	-114.74	267.4	-150.6	353.6	340.4	13.22	26.753	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	
2,565.0	2,547.2	2,489.0	2,475.4	7.8	7.6	-115.91	279.3	-156.6	372.8	359.3	13.55	27.516		
2,600.0	2,581.2	2,522.2	2,507.8	8.0	7.7	-116.50	285.7	-159.9	383.2	369.5	13.73	27.910		
2,660.0	2,639.4	2,579.1	2,563.4	8.2	7.9	-117.43	296.7	-165.4	401.2	387.1	14.05	28.554		
2,700.0	2,678.2	2,617.1	2,600.4	8.3	8.0	-118.01	304.1	-169.1	413.2	398.9	14.26	28.966		
2,755.0	2,731.6	2,669.2	2,651.4	8.6	8.2	-118.75	314.1	-174.2	429.7	415.2	14.57	29.504		
2,800.0	2,775.2	2,711.9	2,693.1	8.7	8.4	-119.31	322.4	-178.4	443.3	428.5	14.81	29.927		
2,850.0	2,823.7	2,759.4	2,739.4	8.9	8.5	-119.90	331.5	-183.1	458.5	443.4	15.10	30.373		
2,900.0	2,872.3	2,806.8	2,785.7	9.1	8.7	-120.45	340.7	-187.7	473.7	458.3	15.38	30.802		
2,945.0	2,915.9	2,849.5	2,827.4	9.3	8.9	-120.92	349.0	-191.9	487.4	471.8	15.64	31.168		
3,000.0	2,969.3	2,901.7	2,878.3	9.5	9.1	-121.46	359.0	-197.0	504.2	488.3	15.96	31.599		
3,040.0	3,008.1	2,939.6	2,915.4	9.7	9.2	-121.83	366.4	-200.7	516.4	500.3	16.19	31.896		
3,100.0	3,066.3	2,996.6	2,971.0	9.9	9.5	-122.35	377.4	-206.2	534.8	518.3	16.55	32.325		
3,135.0	3,100.3	3,029.8	3,003.4	10.1	9.6	-122.63	383.8	-209.5	545.6	528.8	16.75	32.563		
3,200.0	3,163.3	3,091.5	3,063.6	10.4	9.8	-123.14	395.7	-215.5	565.6	548.4	17.15	32.988		
3,230.0	3,192.4	3,119.9	3,091.4	10.5	10.0	-123.36	401.2	-218.3	574.8	557.5	17.33	33.174		
3,300.0	3,260.4	3,186.3	3,156.2	10.8	10.2	-123.85	414.0	-224.8	596.4	578.7	17.75	33.593		
3,325.0	3,284.6	3,210.1	3,179.4	10.9	10.3	-124.02	418.6	-227.1	604.1	586.2	17.91	33.736		
3,400.0	3,357.4	3,281.2	3,248.8	11.2	10.6	-124.50	432.4	-234.1	627.3	608.9	18.37	34.148		
3,420.0	3,376.8	3,300.2	3,267.4	11.3	10.7	-124.62	436.0	-235.9	633.5	615.0	18.49	34.253		
3,500.0	3,454.4	3,376.1	3,341.5	11.7	11.0	-125.08	450.7	-243.3	658.3	639.3	18.99	34.656		
3,515.0	3,469.0	3,390.3	3,355.4	11.7	11.1	-125.16	453.4	-244.7	662.9	643.8	19.09	34.729		
3,600.0	3,551.5	3,471.0	3,434.1	12.1	11.4	-125.61	469.0	-252.6	689.3	669.7	19.63	35.123		
3,610.0	3,561.2	3,480.5	3,443.4	12.1	11.5	-125.66	470.8	-253.5	692.4	672.7	19.69	35.168		
3,700.0	3,648.5	3,565.9	3,526.7	12.5	11.8	-126.09	487.3	-261.9	720.4	700.1	20.26	35.553		
3,705.0	3,653.3	3,570.6	3,531.4	12.6	11.9	-126.12	488.3	-262.3	721.9	701.6	20.29	35.574		
3,800.0	3,745.5	3,660.7	3,619.4	13.0	12.2	-126.54	505.7	-271.1	751.5	730.6	20.90	35.949		
3,895.0	3,837.7	3,750.9	3,707.4	13.4	12.6	-126.93	523.1	-280.0	781.1	759.6	21.52	36.298		
3,900.0	3,842.5	3,755.6	3,712.0	13.4	12.7	-126.95	524.0	-280.4	782.6	761.1	21.55	36.315		
3,990.0	3,929.9	3,841.0	3,795.4	13.8	13.0	-127.29	540.5	-288.8	810.7	788.6	22.14	36.621		
4,000.0	3,939.6	3,850.5	3,804.6	13.9	13.1	-127.33	542.3	-289.7	813.8	791.6	22.20	36.654		
4,085.0	4,022.0	3,931.1	3,883.4	14.3	13.4	-127.63	557.9	-297.6	840.4	817.6	22.76	36.923		
4,100.0	4,036.6	3,945.4	3,897.3	14.3	13.5	-127.68	560.7	-299.0	845.0	822.2	22.86	36.968		
4,180.0	4,114.2	4,021.3	3,971.4	14.7	13.8	-127.94	575.3	-306.4	870.0	846.6	23.38	37.207		
4,200.0	4,133.6	4,040.3	3,989.9	14.8	13.9	-128.00	579.0	-308.2	876.3	852.8	23.51	37.266		
4,275.0	4,206.4	4,118.5	4,066.3	15.2	14.3	-128.26	594.0	-315.8	899.6	875.6	24.05	37.404		
4,300.0	4,230.7	4,149.6	4,096.7	15.3	14.4	-128.38	599.5	-318.6	907.2	882.9	24.27	37.375		
4,370.0	4,298.6	4,237.3	4,183.0	15.6	14.8	-128.78	613.7	-325.8	927.3	902.4	24.88	37.267		
4,400.0	4,327.7	4,275.2	4,220.4	15.7	15.0	-128.98	619.0	-328.5	935.4	910.3	25.14	37.212		
4,465.0	4,390.8	4,357.7	4,302.2	16.0	15.3	-129.47	629.2	-333.6	952.1	926.5	25.68	37.079		
4,500.0	4,424.7	4,402.4	4,346.6	16.2	15.5	-129.77	633.8	-336.0	960.6	934.6	25.97	36.996		
4,560.0	4,482.9	4,479.4	4,423.2	16.5	15.8	-130.34	640.4	-339.3	974.3	947.8	26.43	36.856		
4,600.0	4,521.7	4,530.8	4,474.5	16.7	16.0	-130.75	643.7	-341.0	982.8	956.0	26.74	36.759		
4,655.0	4,575.1	4,601.8	4,545.3	16.9	16.3	-131.37	647.0	-342.6	993.7	966.6	27.14	36.618		
4,700.0	4,618.8	4,659.9	4,603.4	17.1	16.5	-131.92	648.5	-343.4	1,002.0	974.5	27.43	36.530		
4,750.0	4,667.3	4,721.7	4,665.3	17.4	16.6	-132.54	648.9	-343.6	1,010.5	982.8	27.71	36.466		
4,800.0	4,715.8	4,770.3	4,713.8	17.6	16.6	-133.03	648.9	-343.6	1,018.9	991.0	27.91	36.499		
4,845.0	4,759.5	4,813.9	4,757.5	17.8	16.7	-133.47	648.9	-343.6	1,026.4	998.4	28.09	36.542		
4,853.6	4,767.8	4,822.3	4,765.8	17.8	16.7	-133.55	648.9	-343.6	1,027.9	999.8	28.12	36.549		
4,900.0	4,812.9	4,867.4	4,810.9	18.0	16.7	-134.09	648.9	-343.6	1,035.5	1,007.2	28.31	36.582		
4,940.0	4,851.9	4,906.4	4,849.9	18.2	16.7	-134.52	648.9	-343.6	1,041.7	1,013.3	28.48	36.580		
5,000.0	4,910.7	4,965.2	4,908.7	18.5	16.7	-135.12	648.9	-343.6	1,050.4	1,021.7	28.74	36.549		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #805H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9240-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Reference	Offset	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation	Warning
Measured	Vertical	Measured	Vertical	Reference	Offset	Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor
Depth	Depth	Depth	Depth	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	
5,035.0	4,945.1	4,999.5	4,943.1	18.7	16.8	-135.43	648.9	-343.6	1,055.1	1,026.2	28.89	36.525
5,100.0	5,009.2	5,063.6	5,007.2	19.0	16.8	-135.95	648.9	-343.6	1,063.0	1,033.8	29.16	36.452
5,130.0	5,038.8	5,093.3	5,036.8	19.1	16.8	-136.17	648.9	-343.6	1,066.3	1,037.0	29.28	36.414
5,200.0	5,108.2	5,162.6	5,106.2	19.4	16.8	-136.61	648.9	-343.6	1,073.2	1,043.6	29.57	36.296
5,225.0	5,133.0	5,187.4	5,131.0	19.5	16.9	-136.75	648.9	-343.6	1,075.3	1,045.7	29.66	36.252
5,300.0	5,207.6	5,262.0	5,205.6	19.9	16.9	-137.10	648.9	-343.6	1,080.9	1,051.0	29.95	36.087
5,320.0	5,227.5	5,282.0	5,225.5	19.9	16.9	-137.18	648.9	-343.6	1,082.2	1,052.1	30.02	36.042
5,400.0	5,307.3	5,361.8	5,305.3	20.2	17.0	-137.43	648.9	-343.6	1,086.1	1,055.8	30.31	35.832
5,415.0	5,322.3	5,376.8	5,320.3	20.3	17.0	-137.46	648.9	-343.6	1,086.7	1,056.3	30.36	35.795
5,500.0	5,407.3	5,461.7	5,405.3	20.6	17.0	-137.59	648.9	-343.6	1,088.8	1,058.2	30.63	35.549
5,510.0	5,417.3	5,471.7	5,415.3	20.6	17.0	-137.60	648.9	-343.6	1,088.9	1,058.3	30.65	35.533
5,553.7	5,461.0	5,515.5	5,459.0	20.6	17.0	-76.12	648.9	-343.6	1,089.2	1,058.5	30.72	35.454
5,600.0	5,507.3	5,561.7	5,505.3	20.7	17.1	-76.12	648.9	-343.6	1,089.2	1,058.4	30.76	35.407
5,605.0	5,512.3	5,566.7	5,510.3	20.7	17.1	-76.12	648.9	-343.6	1,089.2	1,058.4	30.77	35.400
5,700.0	5,607.3	5,661.7	5,605.3	20.7	17.1	-76.12	648.9	-343.6	1,089.2	1,058.3	30.88	35.273
5,795.0	5,702.3	5,756.7	5,700.3	20.7	17.2	-76.12	648.9	-343.6	1,089.2	1,058.2	30.99	35.146
5,800.0	5,707.3	5,761.7	5,705.3	20.7	17.2	-76.12	648.9	-343.6	1,089.2	1,058.2	31.00	35.139
5,890.0	5,797.3	5,851.7	5,795.3	20.8	17.2	-76.12	648.9	-343.6	1,089.2	1,058.1	31.10	35.020
5,900.0	5,807.3	5,861.7	5,805.3	20.8	17.2	-76.12	648.9	-343.6	1,089.2	1,058.1	31.11	35.006
5,985.0	5,892.3	5,946.7	5,890.3	20.8	17.3	-76.12	648.9	-343.6	1,089.2	1,058.0	31.21	34.894
6,000.0	5,907.3	5,961.7	5,905.3	20.8	17.3	-76.12	648.9	-343.6	1,089.2	1,058.0	31.23	34.874
6,080.0	5,987.3	6,041.7	5,985.3	20.9	17.3	-76.12	648.9	-343.6	1,089.2	1,057.9	31.33	34.769
6,100.0	6,007.3	6,061.7	6,005.3	20.9	17.4	-76.12	648.9	-343.6	1,089.2	1,057.8	31.35	34.742
6,175.0	6,082.3	6,136.7	6,080.3	20.9	17.4	-76.12	648.9	-343.6	1,089.2	1,057.7	31.44	34.644
6,200.0	6,107.3	6,161.7	6,105.3	20.9	17.4	-76.12	648.9	-343.6	1,089.2	1,057.7	31.47	34.611
6,270.0	6,177.3	6,231.7	6,175.3	20.9	17.5	-76.12	648.9	-343.6	1,089.2	1,057.6	31.55	34.520
6,300.0	6,207.3	6,261.7	6,205.3	21.0	17.5	-76.12	648.9	-343.6	1,089.2	1,057.6	31.59	34.481
6,365.0	6,272.3	6,326.7	6,270.3	21.0	17.5	-76.12	648.9	-343.6	1,089.2	1,057.5	31.67	34.396
6,400.0	6,307.3	6,361.7	6,305.3	21.0	17.5	-76.12	648.9	-343.6	1,089.2	1,057.5	31.71	34.351
6,460.0	6,367.3	6,421.7	6,365.3	21.0	17.6	-76.12	648.9	-343.6	1,089.2	1,057.4	31.78	34.273
6,500.0	6,407.3	6,461.7	6,405.3	21.0	17.6	-76.12	648.9	-343.6	1,089.2	1,057.4	31.83	34.221
6,555.0	6,462.3	6,516.7	6,460.3	21.1	17.6	-76.12	648.9	-343.6	1,089.2	1,057.3	31.89	34.150
6,600.0	6,507.3	6,561.7	6,505.3	21.1	17.6	-76.12	648.9	-343.6	1,089.2	1,057.2	31.95	34.092
6,650.0	6,557.3	6,611.7	6,555.3	21.1	17.7	-76.12	648.9	-343.6	1,089.2	1,057.2	32.01	34.028
6,700.0	6,607.3	6,661.7	6,605.3	21.1	17.7	-76.12	648.9	-343.6	1,089.2	1,057.1	32.07	33.964
6,745.0	6,652.3	6,706.7	6,650.3	21.1	17.7	-76.12	648.9	-343.6	1,089.2	1,057.1	32.12	33.907
6,800.0	6,707.3	6,761.7	6,705.3	21.2	17.8	-76.12	648.9	-343.6	1,089.2	1,057.0	32.19	33.837
6,840.0	6,747.3	6,801.7	6,745.3	21.2	17.8	-76.12	648.9	-343.6	1,089.2	1,056.9	32.24	33.786
6,900.0	6,807.3	6,861.7	6,805.3	21.2	17.8	-76.12	648.9	-343.6	1,089.2	1,056.9	32.31	33.709
6,935.0	6,842.3	6,896.7	6,840.3	21.2	17.8	-76.12	648.9	-343.6	1,089.2	1,056.8	32.35	33.665
7,000.0	6,907.3	6,961.7	6,905.3	21.3	17.9	-76.12	648.9	-343.6	1,089.2	1,056.8	32.43	33.583
7,030.0	6,937.3	6,991.7	6,935.3	21.3	17.9	-76.12	648.9	-343.6	1,089.2	1,056.7	32.47	33.545
7,100.0	7,007.3	7,061.7	7,005.3	21.3	17.9	-76.12	648.9	-343.6	1,089.2	1,056.6	32.55	33.457
7,125.0	7,032.3	7,086.7	7,030.3	21.3	18.0	-76.12	648.9	-343.6	1,089.2	1,056.6	32.59	33.426
7,200.0	7,107.3	7,161.7	7,105.3	21.3	18.0	-76.12	648.9	-343.6	1,089.2	1,056.5	32.68	33.332
7,220.0	7,127.3	7,181.7	7,125.3	21.4	18.0	-76.12	648.9	-343.6	1,089.2	1,056.5	32.70	33.307
7,300.0	7,207.3	7,261.7	7,205.3	21.4	18.1	-76.12	648.9	-343.6	1,089.2	1,056.4	32.80	33.207
7,315.0	7,222.3	7,276.7	7,220.3	21.4	18.1	-76.12	648.9	-343.6	1,089.2	1,056.4	32.82	33.189
7,400.0	7,307.3	7,361.7	7,305.3	21.4	18.1	-76.12	648.9	-343.6	1,089.2	1,056.3	32.92	33.083
7,410.0	7,317.3	7,371.7	7,315.3	21.4	18.1	-76.12	648.9	-343.6	1,089.2	1,056.2	32.93	33.071
7,500.0	7,407.3	7,461.7	7,405.3	21.5	18.2	-76.12	648.9	-343.6	1,089.2	1,056.1	33.05	32.960

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #805H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9240-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Reference	Offset	Highside	Offset Wellbore Centre	Distance	Rule Assigned:	Minimum	Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)		
7,505.0	7,412.3	7,466.7	7,410.3	21.5	18.2	-76.12	648.9	-343.6	1,089.2	1,056.1	33.05	32.954
7,600.0	7,507.3	7,561.7	7,505.3	21.5	18.2	-76.12	648.9	-343.6	1,089.2	1,056.0	33.17	32.837
7,695.0	7,602.3	7,656.7	7,600.3	21.6	18.3	-76.12	648.9	-343.6	1,089.2	1,055.9	33.29	32.721
7,700.0	7,607.3	7,661.7	7,605.3	21.6	18.3	-76.12	648.9	-343.6	1,089.2	1,055.9	33.29	32.714
7,790.0	7,697.3	7,751.7	7,695.3	21.6	18.4	-76.12	648.9	-343.6	1,089.2	1,055.8	33.41	32.605
7,800.0	7,707.3	7,761.7	7,705.3	21.6	18.4	-76.12	648.9	-343.6	1,089.2	1,055.8	33.42	32.593
7,885.0	7,792.3	7,846.7	7,790.3	21.7	18.4	-76.12	648.9	-343.6	1,089.2	1,055.7	33.52	32.490
7,900.0	7,807.3	7,861.7	7,805.3	21.7	18.4	-76.12	648.9	-343.6	1,089.2	1,055.6	33.54	32.472
7,980.0	7,887.3	7,941.7	7,885.3	21.7	18.5	-76.12	648.9	-343.6	1,089.2	1,055.5	33.64	32.375
8,000.0	7,907.3	7,961.7	7,905.3	21.7	18.5	-76.12	648.9	-343.6	1,089.2	1,055.5	33.67	32.351
8,075.0	7,982.3	8,036.7	7,980.3	21.8	18.5	-76.12	648.9	-343.6	1,089.2	1,055.4	33.76	32.261
8,100.0	8,007.3	8,061.7	8,005.3	21.8	18.5	-76.12	648.9	-343.6	1,089.2	1,055.4	33.79	32.231
8,170.0	8,077.3	8,131.7	8,075.3	21.8	18.6	-76.12	648.9	-343.6	1,089.2	1,055.3	33.88	32.148
8,200.0	8,107.3	8,161.7	8,105.3	21.8	18.6	-76.12	648.9	-343.6	1,089.2	1,055.3	33.92	32.112
8,265.0	8,172.3	8,226.7	8,170.3	21.8	18.6	-76.12	648.9	-343.6	1,089.2	1,055.2	34.00	32.035
8,300.0	8,207.3	8,261.7	8,205.3	21.9	18.7	-76.12	648.9	-343.6	1,089.2	1,055.1	34.04	31.993
8,360.0	8,267.3	8,321.7	8,265.3	21.9	18.7	-76.12	648.9	-343.6	1,089.2	1,055.1	34.12	31.922
8,400.0	8,307.3	8,361.7	8,305.3	21.9	18.7	-76.12	648.9	-343.6	1,089.2	1,055.0	34.17	31.875
8,455.0	8,362.3	8,416.7	8,360.3	21.9	18.8	-76.12	648.9	-343.6	1,089.2	1,054.9	34.24	31.814
8,485.8	8,393.0	8,447.5	8,391.0	21.9	18.8	-76.12	648.9	-343.6	1,089.2	1,054.9	34.27	31.781
8,500.0	8,407.3	8,461.7	8,405.3	21.9	18.8	103.37	648.9	-343.6	1,089.2	1,054.9	34.28	31.772
8,550.0	8,457.1	8,511.6	8,455.1	22.0	18.8	103.47	648.9	-343.6	1,090.0	1,055.7	34.32	31.759
8,600.0	8,506.5	8,561.0	8,504.5	22.0	18.9	103.68	648.9	-343.6	1,091.9	1,057.5	34.35	31.787
8,645.0	8,550.2	8,604.7	8,548.2	22.0	18.9	103.95	648.9	-343.6	1,094.5	1,060.1	34.37	31.847
8,650.0	8,555.0	8,609.5	8,553.0	22.0	18.9	103.99	648.9	-343.6	1,094.8	1,060.5	34.37	31.856
8,700.0	8,602.3	8,656.8	8,600.3	22.0	18.9	104.36	648.9	-343.6	1,099.0	1,064.6	34.38	31.970
8,740.0	8,639.0	8,693.5	8,637.0	22.0	18.9	104.68	648.9	-343.6	1,103.3	1,069.0	34.38	32.096
8,750.0	8,648.0	8,702.5	8,646.0	22.1	18.9	104.76	648.9	-343.6	1,104.6	1,070.2	34.37	32.133
8,800.0	8,691.7	8,746.2	8,689.7	22.1	19.0	105.13	648.9	-343.6	1,111.6	1,077.3	34.36	32.348
8,835.0	8,721.0	8,775.5	8,719.0	22.1	19.0	105.36	648.9	-343.6	1,117.6	1,083.2	34.35	32.533
8,850.0	8,733.2	8,787.7	8,731.2	22.1	19.0	105.44	648.9	-343.6	1,120.4	1,086.0	34.35	32.621
8,900.0	8,772.1	8,826.6	8,770.1	22.1	19.0	105.62	648.9	-343.6	1,130.9	1,096.6	34.32	32.954
8,930.0	8,794.1	8,848.5	8,792.1	22.2	19.0	105.65	648.9	-343.6	1,138.2	1,103.9	34.30	33.184
8,950.0	8,808.1	8,862.6	8,806.1	22.2	19.0	105.62	648.9	-343.6	1,143.5	1,109.2	34.29	33.351
9,000.0	8,841.0	8,895.4	8,839.0	22.2	19.1	105.38	648.9	-343.6	1,158.2	1,124.0	34.25	33.814
9,025.0	8,856.1	8,910.6	8,854.1	22.2	19.1	105.15	648.9	-343.6	1,166.4	1,132.1	34.23	34.071
9,050.0	8,870.4	8,924.9	8,868.4	22.2	19.1	104.85	648.9	-343.6	1,175.1	1,140.9	34.21	34.345
9,100.0	8,896.2	8,950.7	8,894.2	22.3	19.1	103.96	648.9	-343.6	1,194.2	1,160.1	34.18	34.943
9,120.0	8,905.5	8,959.9	8,903.5	22.3	19.1	103.50	648.9	-343.6	1,202.5	1,168.3	34.16	35.201
9,150.0	8,918.2	8,972.6	8,916.2	22.3	19.1	102.67	648.9	-343.6	1,215.6	1,181.4	34.14	35.608
9,200.0	8,936.1	8,990.6	8,934.1	22.4	19.1	100.93	648.9	-343.6	1,239.1	1,205.0	34.10	36.335
9,215.0	8,940.7	8,995.2	8,938.7	22.4	19.1	100.31	648.9	-343.6	1,246.6	1,212.5	34.09	36.565
9,250.0	8,950.0	9,004.4	8,948.0	22.4	19.1	98.70	648.9	-343.6	1,264.7	1,230.6	34.07	37.121
9,300.0	8,959.6	9,014.1	8,957.6	22.5	19.1	95.94	648.9	-343.6	1,292.1	1,258.1	34.04	37.961
9,310.0	8,961.0	9,015.5	8,959.0	22.5	19.1	95.33	648.9	-343.6	1,297.8	1,263.7	34.03	38.135

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	-39.15	147.9	-120.4	190.7				
95.0	95.0	93.2	93.2	3.0	3.0	-39.15	147.9	-120.4	190.7	184.7	6.04	31.598	
100.0	100.0	98.2	98.2	3.0	3.0	-39.15	147.9	-120.4	190.7	184.7	6.04	31.573	
190.0	190.0	188.2	188.2	3.1	3.1	-39.15	147.9	-120.4	190.7	184.5	6.25	30.500	
200.0	200.0	198.2	198.2	3.1	3.1	-39.15	147.9	-120.4	190.7	184.4	6.29	30.333	
285.0	285.0	283.2	283.2	3.3	3.2	-39.15	147.9	-120.4	190.7	184.2	6.49	29.378	
300.0	300.0	298.2	298.2	3.3	3.3	-39.15	147.9	-120.4	190.7	184.2	6.53	29.194	
380.0	380.0	378.2	378.2	3.4	3.4	-39.15	147.9	-120.4	190.7	184.0	6.72	28.372	
400.0	400.0	398.2	398.2	3.4	3.4	-39.15	147.9	-120.4	190.7	183.9	6.77	28.158	
475.0	475.0	473.2	473.2	3.5	3.5	-39.15	147.9	-120.4	190.7	183.8	6.95	27.450	
500.0	500.0	498.2	498.2	3.5	3.5	-39.15	147.9	-120.4	190.7	183.7	7.01	27.209	
570.0	570.0	568.2	568.2	3.6	3.6	-39.15	147.9	-120.4	190.7	183.5	7.17	26.598	
600.0	600.0	598.2	598.2	3.6	3.6	-39.15	147.9	-120.4	190.7	183.5	7.24	26.335	
665.0	665.0	663.2	663.2	3.7	3.7	-39.15	147.9	-120.4	190.7	183.3	7.39	25.809	
700.0	700.0	698.2	698.2	3.8	3.8	-39.15	147.9	-120.4	190.7	183.2	7.47	25.526	
760.0	760.0	758.2	758.2	3.8	3.8	-39.15	147.9	-120.4	190.7	183.1	7.61	25.074	
800.0	800.0	798.2	798.2	3.9	3.9	-39.15	147.9	-120.4	190.7	183.0	7.70	24.775	
855.0	855.0	853.2	853.2	4.0	3.9	-39.15	147.9	-120.4	190.7	182.9	7.82	24.388	
900.0	900.0	898.2	898.2	4.0	4.0	-39.15	147.9	-120.4	190.7	182.8	7.92	24.075	
950.0	950.0	948.2	948.2	4.1	4.1	-39.15	147.9	-120.4	190.7	182.7	8.03	23.746	
1,000.0	1,000.0	998.2	998.2	4.1	4.1	-39.15	147.9	-120.4	190.7	182.6	8.14	23.420	
1,045.0	1,045.0	1,043.2	1,043.2	4.2	4.2	-39.15	147.9	-120.4	190.7	182.5	8.24	23.142	
1,100.0	1,100.0	1,098.2	1,098.2	4.2	4.2	-39.15	147.9	-120.4	190.7	182.3	8.36	22.807	
1,140.0	1,140.0	1,138.2	1,138.2	4.3	4.3	-39.15	147.9	-120.4	190.7	182.3	8.45	22.574	
1,200.0	1,200.0	1,198.2	1,198.2	4.4	4.4	-39.15	147.9	-120.4	190.7	182.1	8.58	22.230	
1,235.0	1,235.0	1,233.2	1,233.2	4.4	4.4	-39.15	147.9	-120.4	190.7	182.1	8.65	22.038	
1,300.0	1,300.0	1,298.2	1,298.2	4.5	4.5	-39.15	147.9	-120.4	190.7	181.9	8.79	21.686	
1,330.0	1,330.0	1,328.2	1,328.2	4.5	4.5	-39.15	147.9	-120.4	190.7	181.9	8.86	21.530	
1,400.0	1,400.0	1,398.2	1,398.2	4.6	4.6	-39.15	147.9	-120.4	190.7	181.7	9.01	21.172	
1,425.0	1,425.0	1,423.2	1,423.2	4.6	4.6	-39.15	147.9	-120.4	190.7	181.7	9.06	21.049	
1,500.0	1,500.0	1,498.2	1,498.2	4.7	4.7	-39.15	147.9	-120.4	190.7	181.5	9.22	20.686 CC, ES	
1,520.0	1,520.0	1,517.2	1,517.2	4.7	4.7	-100.66	147.9	-120.4	190.8	181.5	9.27	20.577	
1,600.0	1,600.0	1,592.6	1,592.6	4.8	4.8	-101.29	148.5	-121.8	192.5	183.0	9.47	20.328	
1,615.0	1,615.0	1,606.7	1,606.7	4.9	4.9	-101.50	148.7	-122.2	193.0	183.5	9.52	20.274	
1,700.0	1,699.8	1,686.4	1,686.3	5.1	5.0	-103.17	150.3	-126.0	198.0	188.1	9.84	20.127 SF	
1,710.0	1,709.8	1,695.8	1,695.6	5.1	5.0	-103.41	150.6	-126.5	198.8	188.9	9.87	20.128	
1,800.0	1,799.5	1,779.2	1,778.8	5.3	5.2	-106.03	153.4	-132.8	207.7	197.5	10.22	20.328	
1,805.0	1,804.4	1,783.8	1,783.4	5.3	5.3	-106.19	153.6	-133.3	208.3	198.1	10.24	20.349	
1,900.0	1,898.7	1,870.5	1,869.5	5.6	5.5	-109.52	157.5	-142.3	222.2	211.6	10.62	20.921	
1,995.0	1,992.5	1,955.5	1,953.5	5.9	5.8	-113.09	162.4	-153.5	240.9	229.9	11.04	21.825	
2,000.0	1,997.5	1,959.9	1,957.9	5.9	5.8	-113.28	162.7	-154.1	242.0	231.0	11.06	21.882	
2,090.0	2,085.8	2,038.3	2,035.1	6.2	6.0	-116.62	168.2	-166.6	264.7	253.3	11.49	23.043	
2,100.0	2,095.6	2,046.9	2,043.6	6.3	6.1	-116.98	168.9	-168.0	267.6	256.0	11.54	23.190	
2,185.0	2,178.5	2,118.7	2,113.9	6.6	6.3	-119.91	174.7	-181.3	293.9	281.9	11.97	24.549	
2,200.1	2,193.2	2,131.3	2,126.2	6.6	6.4	-120.40	175.8	-183.8	299.0	286.9	12.05	24.813	
2,280.0	2,270.7	2,200.0	2,193.0	6.9	6.6	-123.36	182.2	-198.3	327.7	315.2	12.49	26.242	
2,300.0	2,290.1	2,214.6	2,207.2	6.9	6.7	-123.93	183.6	-201.5	335.2	322.7	12.56	26.682	
2,375.0	2,362.9	2,282.5	2,273.1	7.2	6.9	-126.33	190.2	-216.6	363.9	350.9	12.98	28.031	
2,400.0	2,387.1	2,305.1	2,295.1	7.3	6.9	-127.05	192.4	-221.6	373.6	360.4	13.12	28.466	
2,470.0	2,455.0	2,368.5	2,356.6	7.5	7.2	-128.89	198.6	-235.6	400.9	387.3	13.53	29.620	
2,500.0	2,484.1	2,395.7	2,382.9	7.6	7.2	-129.61	201.2	-241.6	412.7	399.0	13.71	30.099	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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
Rule Assigned:												Warning	
Measured Depth (usft)	Vertical Reference Depth (usft)	Measured Depth (usft)	Vertical Offset Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
2,565.0	2,547.2	2,454.6	2,440.0	7.8	7.4	-131.03	207.0	-254.7	438.4	424.3	14.11	31.076	
2,600.0	2,581.2	2,486.2	2,470.8	8.0	7.6	-131.73	210.1	-261.7	452.4	438.1	14.32	31.583	
2,660.0	2,639.4	2,540.6	2,523.5	8.2	7.7	-132.84	215.3	-273.7	476.4	461.7	14.70	32.402	
2,700.0	2,678.2	2,576.8	2,558.7	8.3	7.9	-133.52	218.9	-281.7	492.5	477.6	14.96	32.927	
2,755.0	2,731.6	2,626.6	2,607.0	8.6	8.1	-134.38	223.7	-292.8	514.8	499.5	15.32	33.609	
2,800.0	2,775.2	2,667.4	2,646.5	8.7	8.2	-135.04	227.7	-301.8	533.0	517.4	15.61	34.142	
2,850.0	2,823.7	2,712.7	2,690.5	8.9	8.4	-135.72	232.1	-311.8	553.4	537.4	15.95	34.704	
2,900.0	2,872.3	2,757.9	2,734.4	9.1	8.6	-136.35	236.5	-321.8	573.8	557.5	16.28	35.240	
2,945.0	2,915.9	2,798.7	2,774.0	9.3	8.7	-136.88	240.5	-330.9	592.2	575.7	16.59	35.699	
3,000.0	2,969.3	2,848.5	2,822.3	9.5	8.9	-137.48	245.3	-341.9	614.8	597.8	16.97	36.231	
3,040.0	3,008.1	2,884.7	2,857.4	9.7	9.1	-137.90	248.9	-349.9	631.3	614.0	17.25	36.600	
3,100.0	3,066.3	2,939.1	2,910.2	9.9	9.3	-138.48	254.2	-361.9	656.0	638.3	17.67	37.128	
3,135.0	3,100.3	2,970.8	2,940.9	10.1	9.4	-138.80	257.3	-369.0	670.4	652.5	17.92	37.421	
3,200.0	3,163.3	3,029.6	2,998.0	10.4	9.6	-139.36	263.0	-382.0	697.3	678.9	18.38	37.940	
3,230.0	3,192.4	3,056.8	3,024.4	10.5	9.8	-139.61	265.6	-388.0	709.7	691.1	18.60	38.168	
3,300.0	3,260.4	3,120.2	3,085.9	10.8	10.0	-140.14	271.8	-402.1	738.8	719.7	19.10	38.677	
3,325.0	3,284.6	3,142.8	3,107.9	10.9	10.1	-140.33	274.0	-407.1	749.1	729.9	19.28	38.849	
3,400.0	3,357.4	3,210.8	3,173.8	11.2	10.4	-140.84	280.6	-422.1	780.3	760.5	19.83	39.346	
3,420.0	3,376.8	3,228.9	3,191.4	11.3	10.5	-140.97	282.4	-426.1	788.6	768.7	19.98	39.472	
3,500.0	3,454.4	3,301.3	3,261.7	11.7	10.8	-141.47	289.5	-442.2	822.0	801.4	20.57	39.956	
3,515.0	3,469.0	3,314.9	3,274.8	11.7	10.8	-141.56	290.8	-445.2	828.2	807.5	20.68	40.042	
3,600.0	3,551.5	3,391.9	3,349.5	12.1	11.2	-142.04	298.3	-462.2	863.7	842.4	21.32	40.512	
3,610.0	3,561.2	3,400.9	3,358.3	12.1	11.2	-142.10	299.2	-464.2	867.8	846.5	21.39	40.565	
3,700.0	3,648.5	3,482.4	3,437.4	12.5	11.6	-142.56	307.1	-482.3	905.4	883.4	22.07	41.020	
3,705.0	3,653.3	3,487.0	3,441.8	12.6	11.6	-142.58	307.5	-483.3	907.5	885.4	22.11	41.045	
3,800.0	3,745.5	3,573.0	3,525.3	13.0	12.0	-143.03	315.9	-502.3	947.3	924.4	22.83	41.486	
3,895.0	3,837.7	3,659.0	3,608.8	13.4	12.4	-143.44	324.3	-521.4	987.1	963.5	23.56	41.894	
3,900.0	3,842.5	3,663.6	3,613.2	13.4	12.4	-143.46	324.8	-522.4	989.2	965.6	23.60	41.915	
3,990.0	3,929.9	3,745.1	3,692.2	13.8	12.7	-143.82	332.7	-540.4	1,026.9	1,002.6	24.29	42.271	
4,000.0	3,939.6	3,754.1	3,701.0	13.9	12.8	-143.86	333.6	-542.4	1,031.1	1,006.7	24.37	42.309	
4,085.0	4,022.0	3,831.1	3,775.7	14.3	13.1	-144.17	341.1	-559.5	1,066.8	1,041.7	25.03	42.620	
4,100.0	4,036.6	3,844.7	3,788.9	14.3	13.2	-144.23	342.4	-562.5	1,073.1	1,047.9	25.15	42.673	
4,180.0	4,114.2	3,917.2	3,859.2	14.7	13.5	-144.50	349.5	-578.5	1,106.6	1,080.9	25.77	42.944	
4,200.0	4,133.6	3,935.3	3,876.8	14.8	13.6	-144.56	351.2	-582.5	1,115.0	1,089.1	25.93	43.009	
4,275.0	4,206.4	4,003.2	3,942.7	15.2	13.9	-144.80	357.8	-597.6	1,146.6	1,120.1	26.51	43.245	
4,300.0	4,230.7	4,025.8	3,964.7	15.3	14.0	-144.88	360.0	-602.6	1,157.1	1,130.4	26.71	43.320	
4,370.0	4,298.6	4,089.2	4,026.2	15.6	14.3	-145.09	366.2	-616.6	1,186.5	1,159.2	27.26	43.525	
4,400.0	4,327.7	4,116.4	4,052.5	15.7	14.4	-145.17	368.9	-622.6	1,199.1	1,171.6	27.50	43.609	
4,465.0	4,390.8	4,175.3	4,109.6	16.0	14.7	-145.35	374.6	-635.7	1,226.5	1,198.5	28.01	43.786	
4,500.0	4,424.7	4,207.0	4,140.4	16.2	14.8	-145.44	377.7	-642.7	1,241.2	1,212.9	28.29	43.878	
4,560.0	4,482.9	4,261.3	4,193.1	16.5	15.1	-145.60	383.0	-654.7	1,266.5	1,237.7	28.76	44.030	
4,600.0	4,521.7	4,297.5	4,228.3	16.7	15.2	-145.70	386.5	-662.8	1,283.3	1,254.2	29.08	44.128	
4,655.0	4,575.1	4,347.3	4,276.6	16.9	15.5	-145.83	391.4	-673.8	1,306.5	1,276.9	29.52	44.258	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - LEONARDO BKL FEDERAL COM #1 - OWB - AWP											Offset Site Error:	0.0 usft
Survey Program: 250-INC-ONLY											Offset Well Error:	10.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		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
9,400.0	8,966.0	8,909.6	8,903.9	22.6	262.0	-89.38	-1,248.7	1,506.4	1,318.1	1,041.2	276.91	4.760
9,405.0	8,966.0	8,909.6	8,903.9	22.6	262.0	-89.39	-1,248.7	1,506.4	1,314.1	1,037.2	276.92	4.746
9,500.0	8,966.1	8,910.3	8,904.6	22.7	262.0	-89.43	-1,248.7	1,506.4	1,240.5	963.5	277.03	4.478
9,595.0	8,966.2	8,910.9	8,905.3	22.9	262.0	-89.48	-1,248.7	1,506.4	1,170.0	892.8	277.25	4.220
9,600.0	8,966.2	8,911.0	8,905.3	22.9	262.0	-89.48	-1,248.7	1,506.4	1,166.4	889.2	277.26	4.207
9,690.0	8,966.3	8,911.6	8,906.0	23.0	262.0	-89.53	-1,248.7	1,506.4	1,103.2	825.6	277.57	3.974
9,700.0	8,966.3	8,911.7	8,906.0	23.0	262.0	-89.54	-1,248.7	1,506.4	1,096.4	818.8	277.62	3.949
9,785.0	8,966.4	8,912.4	8,906.7	23.2	262.0	-89.58	-1,248.7	1,506.4	1,040.7	762.7	278.05	3.743
9,800.0	8,966.4	8,912.5	8,906.8	23.2	262.0	-89.59	-1,248.7	1,506.4	1,031.3	753.2	278.14	3.708
9,880.0	8,966.5	8,913.1	8,907.4	23.4	262.1	-89.64	-1,248.7	1,506.4	983.5	704.8	278.69	3.529
9,900.0	8,966.5	8,913.3	8,907.6	23.4	262.1	-89.65	-1,248.7	1,506.4	972.2	693.4	278.85	3.487
9,975.0	8,966.6	8,913.9	8,908.2	23.6	262.1	-89.69	-1,248.7	1,506.4	932.5	653.0	279.52	3.336
10,000.0	8,966.6	8,914.1	8,908.4	23.7	262.1	-89.71	-1,248.7	1,506.4	920.2	640.5	279.77	3.289
10,070.0	8,966.7	8,914.7	8,909.0	23.8	262.1	-89.75	-1,248.7	1,506.4	888.7	608.2	280.54	3.168
10,100.0	8,966.7	8,915.0	8,909.3	23.9	262.1	-89.77	-1,248.7	1,506.4	876.6	595.7	280.89	3.121
10,165.0	8,966.8	8,915.5	8,909.9	24.1	262.1	-89.81	-1,248.7	1,506.4	853.3	571.6	281.70	3.029
10,200.0	8,966.8	8,915.9	8,910.2	24.2	262.2	-89.83	-1,248.7	1,506.4	842.6	560.4	282.16	2.986
10,260.0	8,966.9	8,916.4	8,910.7	24.3	262.2	-89.87	-1,248.7	1,506.4	827.3	544.4	282.97	2.924
10,300.0	8,966.9	8,916.8	8,911.1	24.4	262.2	-89.90	-1,248.7	1,506.4	819.5	535.9	283.51	2.890
10,355.0	8,967.0	8,917.3	8,911.6	24.6	262.2	-89.93	-1,248.7	1,506.4	811.7	527.5	284.26	2.856
10,400.0	8,967.0	8,917.8	8,912.1	24.7	262.2	-89.97	-1,248.7	1,506.4	808.1	523.3	284.85	2.837
10,442.2	8,967.1	8,918.2	8,912.5	24.9	262.2	-90.00	-1,248.7	1,506.4	807.0	521.6	285.39	2.828 CC
10,450.0	8,967.1	8,918.3	8,912.6	24.9	262.2	-90.00	-1,248.8	1,506.4	807.1	521.6	285.48	2.827 ES, SF
10,500.0	8,967.1	8,918.8	8,913.1	25.1	262.2	-90.04	-1,248.8	1,506.4	809.1	523.0	286.07	2.828
10,545.0	8,967.2	8,919.2	8,913.6	25.2	262.3	-90.07	-1,248.8	1,506.4	813.5	527.0	286.56	2.839
10,600.0	8,967.2	8,919.8	8,914.1	25.4	262.3	-90.11	-1,248.8	1,506.4	822.3	535.2	287.09	2.864
10,640.0	8,967.3	8,920.3	8,914.6	25.5	262.3	-90.14	-1,248.8	1,506.4	830.9	543.5	287.44	2.891
10,700.0	8,967.3	8,920.9	8,915.2	25.7	262.3	-90.19	-1,248.8	1,506.4	847.2	559.3	287.88	2.943
10,735.0	8,967.4	8,921.3	8,915.6	25.9	262.3	-90.22	-1,248.8	1,506.4	858.5	570.4	288.10	2.980
10,800.0	8,967.4	8,922.1	8,916.4	26.1	262.3	-90.27	-1,248.8	1,506.4	882.8	594.4	288.43	3.061
10,830.0	8,967.5	8,922.4	8,916.7	26.2	262.3	-90.30	-1,248.8	1,506.4	895.4	606.8	288.55	3.103
10,900.0	8,967.5	8,923.3	8,917.6	26.5	262.4	-90.36	-1,248.8	1,506.4	927.8	639.1	288.76	3.213
10,925.0	8,967.6	8,923.6	8,917.9	26.6	262.4	-90.38	-1,248.8	1,506.4	940.4	651.6	288.81	3.256
11,000.0	8,967.6	8,924.5	8,918.9	26.9	262.4	-90.45	-1,248.8	1,506.4	981.0	692.1	288.92	3.395
11,020.0	8,967.6	8,924.8	8,919.1	27.0	262.4	-90.47	-1,248.8	1,506.4	992.5	703.6	288.94	3.435
11,100.0	8,967.7	8,925.9	8,920.2	27.3	262.4	-90.54	-1,248.8	1,506.4	1,041.1	752.2	288.96	3.603
11,115.0	8,967.7	8,926.1	8,920.4	27.4	262.5	-90.55	-1,248.8	1,506.4	1,050.7	761.7	288.96	3.636
11,200.0	8,967.8	8,927.3	8,921.6	27.7	262.5	-90.64	-1,248.8	1,506.4	1,107.0	818.1	288.91	3.832
11,210.0	8,967.8	8,927.4	8,921.7	27.8	262.5	-90.65	-1,248.8	1,506.4	1,113.9	825.0	288.91	3.856
11,300.0	8,967.9	8,928.7	8,923.0	28.2	262.5	-90.74	-1,248.9	1,506.4	1,177.7	888.9	288.81	4.078
11,305.0	8,967.9	8,928.8	8,923.1	28.2	262.5	-90.75	-1,248.9	1,506.4	1,181.4	892.6	288.81	4.090
11,400.0	8,968.0	8,930.2	8,924.6	28.6	262.6	-90.85	-1,248.9	1,506.4	1,252.4	963.7	288.68	4.338

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 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	-37.81	1,021.4	-792.5	1,293.2				
95.0	95.0	58.0	58.0	3.0	3.1	3.1	-37.80	1,021.6	-792.4	1,292.9	1,286.8	6.03	214.268	CC
100.0	100.0	62.7	62.7	3.0	3.2	3.2	-37.80	1,021.6	-792.4	1,292.9	1,286.9	6.04	214.070	
190.0	190.0	147.6	147.6	3.1	3.9	3.9	-37.76	1,022.4	-792.0	1,293.3	1,287.1	6.23	207.551	
200.0	200.0	157.0	157.0	3.1	4.0	4.0	-37.76	1,022.6	-792.0	1,293.4	1,287.1	6.26	206.548	
285.0	285.0	237.1	237.1	3.3	4.9	4.9	-37.69	1,024.0	-791.3	1,294.2	1,287.7	6.51	198.937	
300.0	300.0	251.3	251.3	3.3	5.1	5.1	-37.68	1,024.3	-791.1	1,294.4	1,287.8	6.56	197.434	
380.0	380.0	326.7	326.6	3.4	6.2	6.2	-37.59	1,026.4	-790.1	1,295.4	1,288.6	6.83	189.630	
400.0	400.0	345.5	345.4	3.4	6.4	6.4	-37.56	1,027.0	-789.9	1,295.8	1,288.9	6.91	187.596	
475.0	475.0	416.1	416.0	3.5	7.5	7.5	-37.46	1,029.5	-788.7	1,297.1	1,289.9	7.20	180.210	
500.0	500.0	443.7	443.5	3.5	7.8	7.8	-37.41	1,030.5	-788.2	1,297.6	1,290.3	7.29	177.976	
570.0	570.0	535.6	535.4	3.6	8.2	8.2	-37.32	1,032.4	-787.0	1,298.1	1,290.6	7.53	172.497	
600.0	600.0	566.2	566.0	3.6	8.3	8.3	-37.30	1,032.6	-786.7	1,298.2	1,290.5	7.66	169.502	
665.0	665.0	632.5	632.3	3.7	8.6	8.6	-37.28	1,032.9	-786.3	1,298.2	1,290.2	7.94	163.461	
700.0	700.0	668.3	668.1	3.8	8.7	8.7	-37.27	1,033.1	-786.1	1,298.1	1,290.0	8.09	160.368	
760.0	760.0	728.5	728.3	3.8	8.9	8.9	-37.25	1,033.2	-785.8	1,298.0	1,289.7	8.34	155.631	
800.0	800.0	767.1	766.9	3.9	9.0	9.0	-37.25	1,033.2	-785.6	1,298.0	1,289.5	8.48	152.994	
811.4	811.4	778.1	777.9	3.9	9.0	9.0	-37.25	1,033.3	-785.6	1,298.0	1,289.5	8.52	152.269	
855.0	855.0	820.1	819.9	4.0	9.1	9.1	-37.24	1,033.4	-785.5	1,298.0	1,289.3	8.68	149.562	
900.0	900.0	863.5	863.3	4.0	9.2	9.2	-37.23	1,033.5	-785.4	1,298.1	1,289.3	8.84	146.860	
950.0	950.0	912.2	912.0	4.1	9.3	9.3	-37.23	1,033.7	-785.4	1,298.3	1,289.2	9.01	144.165	
1,000.0	1,000.0	962.1	961.9	4.1	9.5	9.5	-37.22	1,034.0	-785.4	1,298.4	1,289.3	9.15	141.847	
1,045.0	1,045.0	1,007.0	1,006.8	4.2	9.6	9.6	-37.21	1,034.2	-785.4	1,298.6	1,289.3	9.29	139.780	
1,100.0	1,100.0	1,061.8	1,061.6	4.2	9.8	9.8	-37.21	1,034.4	-785.4	1,298.8	1,289.3	9.46	137.247	
1,140.0	1,140.0	1,101.6	1,101.4	4.3	9.9	9.9	-37.20	1,034.6	-785.4	1,298.9	1,289.4	9.59	135.416	
1,200.0	1,200.0	1,160.9	1,160.7	4.4	10.1	10.1	-37.19	1,035.0	-785.2	1,299.2	1,289.4	9.79	132.704	
1,235.0	1,235.0	1,195.5	1,195.3	4.4	10.2	10.2	-37.17	1,035.4	-785.1	1,299.4	1,289.5	9.91	131.176	
1,300.0	1,300.0	1,259.8	1,259.6	4.5	10.4	10.4	-37.13	1,036.2	-784.5	1,299.7	1,289.6	10.12	128.411	
1,330.0	1,330.0	1,293.1	1,292.9	4.5	10.5	10.5	-37.11	1,036.6	-784.2	1,299.8	1,289.5	10.28	126.499	
1,400.0	1,400.0	1,377.2	1,377.0	4.6	10.7	10.7	-37.02	1,037.6	-782.5	1,299.6	1,288.9	10.73	121.152	
1,425.0	1,425.0	1,407.3	1,407.0	4.6	10.8	10.8	-36.99	1,037.8	-781.7	1,299.4	1,288.5	10.88	119.380	
1,500.0	1,500.0	1,487.1	1,486.8	4.7	11.0	11.0	-36.89	1,038.2	-779.1	1,298.2	1,286.9	11.31	114.827	
1,520.0	1,520.0	1,503.7	1,503.4	4.7	11.0	11.0	-98.37	1,038.2	-778.7	1,297.9	1,286.5	11.40	113.825	
1,600.0	1,600.0	1,573.4	1,573.1	4.8	11.1	11.1	-98.43	1,038.0	-778.0	1,297.5	1,285.7	11.80	109.952	
1,615.0	1,615.0	1,589.6	1,589.3	4.9	11.1	11.1	-98.45	1,037.9	-778.0	1,297.5	1,285.6	11.92	108.816	
1,639.7	1,639.6	1,616.3	1,616.0	4.9	11.2	11.2	-98.50	1,037.8	-777.8	1,297.5	1,285.4	12.13	107.002	
1,700.0	1,699.8	1,681.4	1,681.1	5.1	11.3	11.3	-98.66	1,037.5	-777.3	1,297.5	1,284.8	12.62	102.846	
1,710.0	1,709.8	1,692.2	1,691.9	5.1	11.3	11.3	-98.69	1,037.4	-777.1	1,297.4	1,284.7	12.70	102.187	
1,800.0	1,799.5	1,787.6	1,787.3	5.3	11.5	11.5	-99.02	1,036.9	-775.6	1,297.4	1,284.0	13.39	96.881	
1,801.7	1,801.2	1,789.4	1,789.1	5.3	11.5	11.5	-99.03	1,036.9	-775.5	1,297.4	1,284.0	13.40	96.791	
1,805.0	1,804.4	1,792.8	1,792.5	5.3	11.5	11.5	-99.04	1,036.8	-775.5	1,297.4	1,283.9	13.43	96.623	
1,900.0	1,898.7	1,890.8	1,890.5	5.6	11.6	11.6	-99.50	1,036.3	-773.2	1,297.5	1,283.4	14.10	92.047	ES
1,995.0	1,992.5	1,986.3	1,985.9	5.9	11.8	11.8	-100.05	1,036.0	-770.5	1,298.1	1,283.4	14.66	88.557	
2,000.0	1,997.5	1,991.2	1,990.8	5.9	11.8	11.8	-100.08	1,036.0	-770.4	1,298.1	1,283.5	14.68	88.414	
2,090.0	2,085.8	2,078.6	2,078.1	6.2	12.0	12.0	-100.69	1,035.8	-767.7	1,299.4	1,284.3	15.11	85.982	
2,100.0	2,095.6	2,088.2	2,087.8	6.3	12.0	12.0	-100.76	1,035.8	-767.4	1,299.6	1,284.4	15.16	85.733	
2,185.0	2,178.5	2,171.3	2,170.8	6.6	12.2	12.2	-101.44	1,035.7	-765.0	1,301.6	1,286.0	15.61	83.399	
2,200.1	2,193.2	2,186.3	2,185.9	6.6	12.2	12.2	-101.58	1,035.7	-764.5	1,302.1	1,286.4	15.70	82.943	
2,280.0	2,270.7	2,265.9	2,265.3	6.9	12.4	12.4	-102.33	1,035.6	-762.2	1,304.5	1,288.3	16.18	80.620	
2,300.0	2,290.1	2,285.8	2,285.2	6.9	12.5	12.5	-102.52	1,035.5	-761.6	1,305.1	1,288.8	16.30	80.065	
2,375.0	2,362.9	2,358.9	2,358.3	7.2	12.6	12.6	-103.21	1,035.3	-759.3	1,307.5	1,290.7	16.78	77.903	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 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	Rule Assigned:													
Measured	Vertical	Measured	Vertical	Semi Major Axis		Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning	
Depth	Depth	Depth	Depth	Reference	Offset		+N/-S	+E/-W	Between	Between				
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	Toolface	(usft)	(usft)	Centres	Ellipses	(usft)	Factor		
						(°)			(usft)	(usft)				
2,400.0	2,387.1	2,382.7	2,382.1	7.3	12.7	-103.43	1,035.2	-758.6	1,308.4	1,291.4	16.96	77.166		
2,470.0	2,455.0	2,449.3	2,448.7	7.5	12.9	-104.06	1,035.2	-756.6	1,311.0	1,293.6	17.43	75.199		
2,500.0	2,484.1	2,477.9	2,477.3	7.6	13.0	-104.32	1,035.2	-755.7	1,312.2	1,294.6	17.64	74.403		
2,565.0	2,547.2	2,516.0	2,515.4	7.8	13.1	-104.68	1,035.2	-754.5	1,315.2	1,297.2	17.96	73.213		
2,600.0	2,581.2	2,561.9	2,561.2	8.0	13.2	-105.11	1,035.4	-753.4	1,316.8	1,298.6	18.18	72.412 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 #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 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	7.71	1,037.4	140.5	1,047.5					
95.0	95.0	61.5	61.5	3.0	3.2	7.71	1,037.3	140.5	1,046.8	1,040.6	6.17	169.639		
100.0	100.0	66.7	66.7	3.0	3.2	7.71	1,037.3	140.5	1,046.8	1,040.6	6.20	168.845		
190.0	190.0	159.8	159.8	3.1	4.0	7.72	1,037.0	140.7	1,046.5	1,039.4	7.05	148.494		
200.0	200.0	170.2	170.2	3.1	4.1	7.73	1,036.9	140.7	1,046.4	1,039.3	7.17	145.912		
285.0	285.0	258.1	258.1	3.3	5.2	7.74	1,036.3	140.9	1,045.8	1,037.5	8.31	125.899		
300.0	300.0	273.6	273.6	3.3	5.4	7.75	1,036.1	140.9	1,045.7	1,037.2	8.53	122.637		
380.0	380.0	356.3	356.3	3.4	6.6	7.77	1,035.3	141.3	1,044.9	1,035.2	9.74	107.278		
400.0	400.0	377.0	377.0	3.4	6.9	7.78	1,035.0	141.4	1,044.7	1,034.6	10.06	103.882		
475.0	475.0	454.0	454.0	3.5	7.9	7.81	1,033.9	141.7	1,043.7	1,032.6	11.08	94.236		
500.0	500.0	479.2	479.2	3.5	8.1	7.82	1,033.6	141.9	1,043.4	1,032.1	11.29	92.426		
570.0	570.0	549.9	549.9	3.6	8.6	7.84	1,032.5	142.2	1,042.3	1,030.5	11.88	87.709		
600.0	600.0	580.2	580.2	3.6	8.9	7.85	1,032.0	142.4	1,041.9	1,029.8	12.14	85.806		
665.0	665.0	645.8	645.7	3.7	9.3	7.88	1,031.0	142.7	1,040.9	1,028.3	12.58	82.719		
700.0	700.0	681.0	680.9	3.8	9.4	7.89	1,030.4	142.9	1,040.4	1,027.6	12.73	81.714		
760.0	760.0	741.3	741.3	3.8	9.5	7.92	1,029.4	143.2	1,039.4	1,026.4	12.98	80.056		
800.0	800.0	781.5	781.5	3.9	9.7	7.94	1,028.7	143.4	1,038.7	1,025.6	13.15	78.976		
855.0	855.0	837.0	836.9	4.0	9.8	7.96	1,027.7	143.8	1,037.8	1,024.5	13.39	77.531		
900.0	900.0	882.3	882.2	4.0	10.0	7.98	1,026.9	144.0	1,037.1	1,023.5	13.58	76.371		
950.0	950.0	932.8	932.7	4.1	10.1	8.01	1,026.0	144.3	1,036.2	1,022.4	13.79	75.125		
1,000.0	1,000.0	983.2	983.1	4.1	10.3	8.03	1,025.0	144.6	1,035.3	1,021.3	14.01	73.908		
1,045.0	1,045.0	1,028.4	1,028.3	4.2	10.5	8.05	1,024.1	144.9	1,034.5	1,020.3	14.20	72.847		
1,100.0	1,100.0	1,083.7	1,083.6	4.2	10.6	8.08	1,023.1	145.2	1,033.5	1,019.1	14.44	71.581		
1,140.0	1,140.0	1,123.9	1,123.8	4.3	10.8	8.09	1,022.3	145.3	1,032.8	1,018.2	14.61	70.689		
1,200.0	1,200.0	1,184.3	1,184.1	4.4	11.0	8.11	1,021.1	145.6	1,031.6	1,016.8	14.87	69.390		
1,235.0	1,235.0	1,219.7	1,219.6	4.4	11.1	8.12	1,020.4	145.7	1,031.0	1,016.0	15.01	68.693		
1,300.0	1,300.0	1,285.6	1,285.4	4.5	11.3	8.14	1,019.1	145.7	1,029.7	1,014.4	15.27	67.425		
1,330.0	1,330.0	1,316.0	1,315.8	4.5	11.4	8.14	1,018.5	145.8	1,029.1	1,013.7	15.39	66.855		
1,400.0	1,400.0	1,387.6	1,387.4	4.6	11.6	8.15	1,016.9	145.7	1,027.6	1,011.9	15.68	65.542		
1,425.0	1,425.0	1,413.9	1,413.7	4.6	11.7	8.16	1,016.3	145.7	1,027.0	1,011.2	15.78	65.070		
1,500.0	1,500.0	1,492.9	1,492.7	4.7	12.0	8.18	1,014.3	145.8	1,025.1	1,009.0	16.10	63.674		
1,520.0	1,520.0	1,514.0	1,513.8	4.7	12.0	-53.32	1,013.7	145.8	1,024.5	1,008.3	16.18	63.301		
1,600.0	1,600.0	1,587.4	1,587.1	4.8	12.2	-53.40	1,011.5	146.1	1,021.2	1,004.7	16.47	62.007		
1,615.0	1,615.0	1,598.7	1,598.4	4.9	12.3	-53.43	1,011.3	146.1	1,020.6	1,004.1	16.52	61.796		
1,700.0	1,699.8	1,664.8	1,664.6	5.1	12.4	-53.65	1,010.7	146.1	1,017.1	1,000.3	16.77	60.634		
1,710.0	1,709.8	1,674.6	1,674.3	5.1	12.4	-53.69	1,010.7	146.1	1,016.6	999.8	16.81	60.485		
1,800.0	1,799.5	1,762.0	1,761.7	5.3	12.5	-54.13	1,010.8	145.9	1,012.0	994.9	17.12	59.127		
1,805.0	1,804.4	1,766.8	1,766.5	5.3	12.5	-54.16	1,010.9	145.9	1,011.7	994.6	17.13	59.051		
1,900.0	1,898.7	1,859.1	1,858.8	5.6	12.7	-54.78	1,011.2	146.0	1,005.2	987.8	17.45	57.590		
1,995.0	1,992.5	1,952.7	1,952.4	5.9	12.9	-55.59	1,011.6	146.2	997.2	979.4	17.78	56.078		
2,000.0	1,997.5	1,957.6	1,957.3	5.9	12.9	-55.64	1,011.6	146.3	996.7	978.9	17.80	55.999		
2,090.0	2,085.8	2,045.8	2,045.6	6.2	13.2	-56.58	1,012.0	146.6	987.5	969.4	18.10	54.560		
2,100.0	2,095.6	2,055.7	2,055.4	6.3	13.2	-56.70	1,012.0	146.6	986.4	968.3	18.13	54.399		
2,185.0	2,178.5	2,139.0	2,138.7	6.6	13.4	-57.77	1,012.4	146.9	976.4	958.0	18.41	53.024		
2,200.1	2,193.2	2,153.7	2,153.4	6.6	13.4	-57.97	1,012.4	147.0	974.5	956.0	18.46	52.783		
2,280.0	2,270.7	2,231.6	2,231.3	6.9	13.6	-58.92	1,012.8	147.2	964.5	945.8	18.70	51.577		
2,300.0	2,290.1	2,251.1	2,250.8	6.9	13.7	-59.16	1,012.8	147.2	962.0	943.3	18.76	51.280		
2,375.0	2,362.9	2,324.2	2,323.9	7.2	13.9	-60.07	1,013.1	147.4	952.9	933.9	18.99	50.179		
2,400.0	2,387.1	2,348.6	2,348.3	7.3	13.9	-60.38	1,013.2	147.5	950.0	930.9	19.07	49.823		
2,470.0	2,455.0	2,416.8	2,416.5	7.5	14.1	-61.24	1,013.4	147.7	941.7	922.5	19.28	48.843		
2,500.0	2,484.1	2,446.2	2,445.9	7.6	14.2	-61.62	1,013.5	147.8	938.3	918.9	19.38	48.422		

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

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Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 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						Rule Assigned:				Offset Well Error: 3.0 usft		
Measured	Reference	Measured	Offset	Semi Major Axis	Reference	Offset	Highside	Offset Wellbore Centre		Distance		Warning		
Depth (usft)	Vertical Depth (usft)	Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
2,565.0	2,547.2	2,510.0	2,509.7	7.8	14.3	-62.45	1,013.7	148.0	930.9	911.3	19.59	47.511		
2,600.0	2,581.2	2,544.3	2,544.0	8.0	14.4	-62.90	1,013.7	148.2	927.0	907.3	19.71	47.032		
2,660.0	2,639.4	2,603.2	2,602.9	8.2	14.5	-63.68	1,013.8	148.4	920.4	900.5	19.91	46.224		
2,700.0	2,678.2	2,642.0	2,641.8	8.3	14.6	-64.20	1,013.9	148.6	916.1	896.0	20.04	45.706		
2,755.0	2,731.6	2,695.3	2,695.0	8.6	14.8	-64.92	1,013.9	148.7	910.3	890.1	20.22	45.015		
2,800.0	2,775.2	2,738.8	2,738.5	8.7	14.9	-65.52	1,014.0	148.8	905.7	885.3	20.37	44.469		
2,850.0	2,823.7	2,787.2	2,786.9	8.9	15.0	-66.20	1,014.0	148.9	900.7	880.1	20.53	43.878		
2,900.0	2,872.3	2,835.4	2,835.2	9.1	15.1	-66.89	1,014.1	148.9	895.8	875.1	20.72	43.235		
2,945.0	2,915.9	2,878.8	2,878.5	9.3	15.3	-67.51	1,014.2	148.8	891.6	870.6	20.91	42.633		
3,000.0	2,969.3	2,931.8	2,931.6	9.5	15.5	-68.28	1,014.3	148.8	886.5	865.4	21.15	41.927		
3,040.0	3,008.1	2,970.4	2,970.1	9.7	15.6	-68.85	1,014.4	148.8	883.0	861.7	21.31	41.431		
3,100.0	3,066.3	3,028.5	3,028.2	9.9	15.8	-69.71	1,014.6	148.7	877.9	856.4	21.57	40.692		
3,135.0	3,100.3	3,062.4	3,062.2	10.1	16.0	-70.22	1,014.7	148.6	875.1	853.3	21.73	40.263		
3,200.0	3,163.3	3,125.5	3,125.3	10.4	16.2	-71.17	1,014.9	148.6	869.9	847.9	22.02	39.498		
3,230.0	3,192.4	3,154.7	3,154.4	10.5	16.3	-71.61	1,014.9	148.5	867.6	845.5	22.16	39.156		
3,300.0	3,260.4	3,222.8	3,222.5	10.8	16.5	-72.66	1,015.1	148.4	862.5	840.0	22.46	38.400		
3,325.0	3,284.6	3,247.2	3,247.0	10.9	16.6	-73.04	1,015.2	148.4	860.7	838.2	22.57	38.141		
3,400.0	3,357.4	3,320.5	3,320.2	11.2	16.9	-74.18	1,015.3	148.3	855.6	832.8	22.88	37.395		
3,420.0	3,376.8	3,340.0	3,339.7	11.3	16.9	-74.48	1,015.4	148.3	854.3	831.4	22.96	37.202		
3,500.0	3,454.4	3,418.4	3,418.1	11.7	17.2	-75.72	1,015.5	148.3	849.3	826.1	23.26	36.521		
3,515.0	3,469.0	3,433.2	3,432.9	11.7	17.2	-75.95	1,015.5	148.2	848.4	825.1	23.30	36.407		
3,600.0	3,551.5	3,516.7	3,516.4	12.1	17.4	-77.29	1,015.5	148.2	843.5	820.0	23.58	35.779		
3,610.0	3,561.2	3,526.5	3,526.2	12.1	17.4	-77.45	1,015.5	148.2	843.0	819.4	23.61	35.706		
3,700.0	3,648.5	3,614.1	3,613.8	12.5	17.6	-78.87	1,015.4	148.2	838.3	814.4	23.90	35.071		
3,705.0	3,653.3	3,618.9	3,618.6	12.6	17.6	-78.95	1,015.4	148.2	838.1	814.1	23.92	35.037		
3,800.0	3,745.5	3,710.4	3,710.2	13.0	17.9	-80.45	1,015.3	148.1	833.8	809.5	24.24	34.398		
3,895.0	3,837.7	3,802.6	3,802.4	13.4	18.1	-81.98	1,015.2	147.9	830.2	805.6	24.58	33.769		
3,900.0	3,842.5	3,807.5	3,807.2	13.4	18.2	-82.06	1,015.2	147.9	830.0	805.4	24.60	33.735		
3,990.0	3,929.9	3,895.5	3,895.2	13.8	18.4	-83.54	1,015.1	147.8	827.1	802.1	24.96	33.139		
4,000.0	3,939.6	3,905.3	3,905.0	13.9	18.4	-83.70	1,015.1	147.7	826.8	801.8	25.00	33.074		
4,085.0	4,022.0	3,987.9	3,987.6	14.3	18.6	-85.10	1,014.9	147.6	824.6	799.3	25.34	32.539		
4,100.0	4,036.6	4,002.4	4,002.2	14.3	18.7	-85.34	1,014.9	147.5	824.3	798.9	25.40	32.449		
4,180.0	4,114.2	4,079.8	4,079.5	14.7	18.9	-86.66	1,014.7	147.3	822.8	797.1	25.73	31.975		
4,200.0	4,133.6	4,099.1	4,098.9	14.8	19.0	-86.99	1,014.6	147.3	822.5	796.7	25.82	31.858		
4,275.0	4,206.4	4,171.8	4,171.5	15.2	19.2	-88.24	1,014.4	147.0	821.7	795.5	26.15	31.422		
4,300.0	4,230.7	4,196.1	4,195.8	15.3	19.3	-88.66	1,014.4	146.9	821.5	795.2	26.27	31.276		
4,370.0	4,298.6	4,264.1	4,263.8	15.6	19.5	-89.82	1,014.2	146.7	821.2	794.6	26.60	30.874		
4,393.6	4,321.4	4,287.0	4,286.7	15.7	19.5	-90.22	1,014.1	146.6	821.2	794.5	26.71	30.740		
4,400.0	4,327.7	4,293.2	4,292.9	15.7	19.5	-90.32	1,014.1	146.6	821.2	794.4	26.75	30.703		
4,465.0	4,390.8	4,356.2	4,355.9	16.0	19.7	-91.41	1,013.9	146.3	821.4	794.3	27.07	30.338		
4,500.0	4,424.7	4,390.0	4,389.8	16.2	19.8	-91.99	1,013.8	146.2	821.6	794.3	27.26	30.143		
4,560.0	4,482.9	4,448.0	4,447.7	16.5	20.0	-92.98	1,013.7	146.1	822.2	794.6	27.58	29.814		
4,600.0	4,521.7	4,486.7	4,486.4	16.7	20.1	-93.64	1,013.6	146.0	822.8	795.0	27.80	29.599		
4,655.0	4,575.1	4,539.9	4,539.6	16.9	20.3	-94.54	1,013.5	145.8	823.8	795.6	28.11	29.303		
4,700.0	4,618.8	4,583.5	4,583.3	17.1	20.4	-95.29	1,013.4	145.7	824.7	796.3	28.38	29.061		
4,750.0	4,667.3	4,632.0	4,631.7	17.4	20.6	-96.11	1,013.3	145.5	826.0	797.3	28.68	28.796		
4,800.0	4,715.8	4,680.5	4,680.2	17.6	20.7	-96.93	1,013.2	145.4	827.4	798.4	28.99	28.536		
4,845.0	4,759.5	4,724.0	4,723.7	17.8	20.9	-97.67	1,013.1	145.2	828.8	799.5	29.26	28.321		
4,853.6	4,767.8	4,732.3	4,732.0	17.8	20.9	-97.81	1,013.1	145.2	829.1	799.8	29.32	28.281		
4,900.0	4,812.9	4,777.1	4,776.8	18.0	21.0	-98.57	1,013.0	145.0	830.7	801.1	29.59	28.071		
4,940.0	4,851.9	4,815.9	4,815.6	18.2	21.1	-99.18	1,013.0	144.9	832.1	802.3	29.84	27.882		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 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		Offset Wellbore Centre			Distance				Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
5,000.0	4,910.7	4,874.3	4,874.0	18.5	21.3	-100.03	1,013.0	144.8	834.3	804.1	30.22	27.603			
5,035.0	4,945.1	4,908.7	4,908.4	18.7	21.3	-100.49	1,013.0	144.8	835.5	805.1	30.44	27.451			
5,100.0	5,009.2	4,973.6	4,973.3	19.0	21.5	-101.26	1,013.1	144.8	837.7	806.9	30.80	27.196			
5,130.0	5,038.8	5,007.1	5,006.8	19.1	21.7	-101.62	1,013.1	144.9	838.6	807.6	30.98	27.069			
5,200.0	5,108.2	5,116.0	5,115.6	19.4	22.3	-102.71	1,009.8	145.5	838.7	807.2	31.52	26.606			
5,225.0	5,133.0	5,158.0	5,157.5	19.5	22.6	-103.13	1,006.8	146.1	837.8	806.1	31.73	26.409			
5,300.0	5,207.6	5,244.1	5,243.3	19.9	23.0	-103.94	998.5	147.5	833.3	801.1	32.21	25.872			
5,320.0	5,227.5	5,263.9	5,262.9	19.9	23.0	-104.11	996.6	147.8	832.0	799.7	32.32	25.739			
5,400.0	5,307.3	5,341.2	5,339.9	20.2	23.3	-104.65	988.9	149.1	826.6	793.8	32.75	25.242			
5,415.0	5,322.3	5,355.7	5,354.2	20.3	23.3	-104.74	987.4	149.3	825.5	792.7	32.82	25.154			
5,500.0	5,407.3	5,437.9	5,436.0	20.6	23.5	-105.14	979.3	150.3	819.5	786.2	33.23	24.659			
5,510.0	5,417.3	5,447.6	5,445.7	20.6	23.6	-105.18	978.4	150.4	818.7	785.5	33.27	24.607			
5,553.7	5,461.0	5,489.9	5,487.8	20.6	23.7	-43.82	974.3	150.8	815.4	782.0	33.45	24.376			
5,600.0	5,507.3	5,534.5	5,532.2	20.7	23.8	-44.00	970.1	151.3	812.0	778.3	33.63	24.146			
5,605.0	5,512.3	5,539.3	5,537.0	20.7	23.8	-44.02	969.7	151.4	811.6	777.9	33.65	24.120			
5,700.0	5,607.3	5,632.6	5,629.9	20.7	24.1	-44.41	961.0	152.2	804.7	770.6	34.05	23.633			
5,795.0	5,702.3	5,725.8	5,722.7	20.7	24.4	-44.80	952.4	152.9	797.9	763.4	34.45	23.160			
5,800.0	5,707.3	5,730.7	5,727.5	20.7	24.4	-44.82	952.0	153.0	797.5	763.1	34.47	23.136			
5,890.0	5,797.3	5,814.5	5,811.1	20.8	24.7	-45.14	944.9	153.8	791.5	756.7	34.83	22.722			
5,900.0	5,807.3	5,823.6	5,820.1	20.8	24.7	-45.18	944.2	153.9	790.9	756.0	34.87	22.679			
5,985.0	5,892.3	5,903.4	5,899.7	20.8	24.9	-45.45	938.2	154.4	786.0	750.8	35.21	22.321			
6,000.0	5,907.3	5,917.7	5,914.0	20.8	25.0	-45.50	937.3	154.6	785.2	749.9	35.28	22.259			
6,080.0	5,987.3	5,998.1	5,994.2	20.9	25.2	-45.76	931.8	155.1	781.0	745.3	35.62	21.926			
6,100.0	6,007.3	6,018.9	6,014.9	20.9	25.3	-45.84	930.2	155.2	779.9	744.2	35.71	21.840			
6,175.0	6,082.3	6,093.1	6,088.9	20.9	25.5	-46.14	924.4	155.3	775.7	739.7	36.03	21.528			
6,200.0	6,107.3	6,117.2	6,112.9	20.9	25.6	-46.23	922.6	155.4	774.3	738.2	36.14	21.428			
6,270.0	6,177.3	6,181.8	6,177.4	20.9	25.8	-46.46	918.1	155.6	770.8	734.4	36.42	21.167			
6,300.0	6,207.3	6,208.9	6,204.4	21.0	25.8	-46.55	916.4	155.6	769.5	733.0	36.53	21.064			
6,365.0	6,272.3	6,275.0	6,270.4	21.0	26.0	-46.78	912.4	155.5	766.8	730.0	36.82	20.828			
6,400.0	6,307.3	6,314.2	6,309.5	21.0	26.2	-46.93	909.7	155.5	765.2	728.2	36.99	20.687			
6,460.0	6,367.3	6,371.0	6,366.1	21.0	26.3	-47.15	905.6	155.5	762.3	725.0	37.24	20.469			
6,500.0	6,407.3	6,406.4	6,401.4	21.0	26.4	-47.27	903.4	155.5	760.6	723.2	37.39	20.341			
6,555.0	6,462.3	6,460.0	6,455.0	21.1	26.6	-47.44	900.4	155.4	758.6	721.0	37.62	20.162			
6,600.0	6,507.3	6,506.8	6,501.7	21.1	26.8	-47.60	897.7	155.4	756.8	719.0	37.83	20.007			
6,650.0	6,557.3	6,557.4	6,552.2	21.1	26.9	-47.77	894.6	155.4	754.8	716.8	38.05	19.837			
6,700.0	6,607.3	6,607.5	6,602.3	21.1	27.1	-47.92	891.8	155.5	752.8	714.5	38.27	19.672			
6,745.0	6,652.3	6,651.6	6,646.3	21.1	27.2	-48.04	889.5	155.8	751.0	712.6	38.46	19.529			
6,800.0	6,707.3	6,705.2	6,699.8	21.2	27.4	-48.18	886.7	156.1	748.9	710.2	38.69	19.359			
6,840.0	6,747.3	6,743.4	6,737.9	21.2	27.5	-48.28	884.9	156.3	747.4	708.6	38.85	19.240			
6,900.0	6,807.3	6,800.4	6,794.9	21.2	27.7	-48.41	882.3	156.5	745.5	706.4	39.09	19.072			
6,935.0	6,842.3	6,830.1	6,824.6	21.2	27.8	-48.47	881.2	156.6	744.5	705.3	39.21	18.988			
7,000.0	6,907.3	6,883.6	6,878.0	21.3	27.9	-48.56	879.8	156.5	743.4	704.0	39.41	18.862			
7,030.0	6,937.3	6,909.2	6,903.7	21.3	28.0	-48.58	879.4	156.4	743.3	703.8	39.51	18.812			
7,100.0	7,007.3	6,977.5	6,972.0	21.3	28.2	-48.65	878.7	155.9	743.2	703.4	39.79	18.678			
7,108.1	7,015.3	6,985.4	6,979.8	21.3	28.3	-48.66	878.6	155.8	743.2	703.4	39.82	18.663 CC, ES			
7,125.0	7,032.3	6,997.1	6,991.6	21.3	28.3	-48.67	878.5	155.7	743.2	703.4	39.86	18.647 SF			
7,200.0	7,107.3	7,037.7	7,032.1	21.3	28.4	-48.63	879.6	155.2	745.4	705.5	39.91	18.677			
7,220.0	7,127.3	7,054.0	7,048.4	21.4	28.5	-48.58	880.8	154.8	746.6	706.7	39.95	18.688			
7,300.0	7,207.3	7,086.0	7,080.1	21.4	28.6	-48.38	884.8	154.2	754.0	714.2	39.83	18.930			
7,315.0	7,222.3	7,094.9	7,088.9	21.4	28.6	-48.30	886.3	154.1	755.9	716.1	39.83	18.980			
7,400.0	7,307.3	7,131.6	7,124.7	21.4	28.8	-47.87	894.3	153.6	769.5	729.9	39.62	19.424			

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 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)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
7,410.0	7,317.3	7,135.7	7,128.6	21.4	28.8	-47.82	895.4	153.5	771.4	731.9	39.58	19.489		
7,500.0	7,407.3	7,181.0	7,171.6	21.5	28.9	-47.09	909.5	152.4	792.2	752.8	39.36	20.128		
7,505.0	7,412.3	7,181.0	7,171.6	21.5	28.9	-47.09	909.5	152.4	793.4	754.1	39.31	20.183		
7,600.0	7,507.3	7,213.0	7,201.2	21.5	29.0	-46.48	921.7	151.5	821.3	782.5	38.83	21.153		
7,695.0	7,602.3	7,260.3	7,243.5	21.6	29.1	-45.44	942.9	150.1	854.7	816.2	38.51	22.194		
7,700.0	7,607.3	7,262.5	7,245.5	21.6	29.1	-45.39	943.9	150.0	856.6	818.1	38.49	22.255		
7,790.0	7,697.3	7,298.7	7,276.5	21.6	29.2	-44.50	962.4	149.0	893.1	855.0	38.08	23.453		
7,800.0	7,707.3	7,308.0	7,284.3	21.6	29.3	-44.26	967.5	148.8	897.5	859.4	38.11	23.552		
7,885.0	7,792.3	7,340.0	7,310.5	21.7	29.3	-43.42	985.9	147.8	936.7	899.0	37.72	24.831		
7,900.0	7,807.3	7,340.0	7,310.5	21.7	29.3	-43.42	985.9	147.8	943.9	906.4	37.58	25.117		
7,980.0	7,887.3	7,361.1	7,327.1	21.7	29.4	-42.84	998.9	147.1	984.9	947.8	37.13	26.525		
8,000.0	7,907.3	7,372.0	7,335.4	21.7	29.4	-42.53	1,005.9	146.7	995.7	958.6	37.10	26.836		
8,075.0	7,982.3	7,388.2	7,347.6	21.8	29.4	-42.07	1,016.6	146.1	1,037.7	1,001.0	36.67	28.294		
8,100.0	8,007.3	7,404.0	7,359.1	21.8	29.5	-41.62	1,027.3	145.4	1,052.4	1,015.7	36.68	28.688		
8,170.0	8,077.3	7,404.0	7,359.1	21.8	29.5	-41.62	1,027.3	145.4	1,094.6	1,058.5	36.12	30.305		
8,200.0	8,107.3	7,420.8	7,371.0	21.8	29.5	-41.14	1,039.1	144.7	1,113.2	1,077.1	36.12	30.818		
8,265.0	8,172.3	7,435.0	7,380.8	21.8	29.6	-40.73	1,049.4	144.1	1,154.9	1,119.1	35.84	32.224		
8,300.0	8,207.3	7,435.0	7,380.8	21.9	29.6	-40.73	1,049.4	144.1	1,178.1	1,142.5	35.60	33.096		
8,360.0	8,267.3	7,467.0	7,401.9	21.9	29.6	-39.78	1,073.5	142.8	1,218.6	1,183.0	35.63	34.200		
8,400.0	8,307.3	7,467.0	7,401.9	21.9	29.6	-39.78	1,073.5	142.8	1,246.2	1,210.8	35.39	35.218		
8,455.0	8,362.3	7,478.5	7,409.1	21.9	29.6	-39.44	1,082.4	142.4	1,285.0	1,249.8	35.21	36.495		
8,485.8	8,393.0	7,484.4	7,412.7	21.9	29.7	-39.26	1,087.1	142.1	1,307.2	1,272.0	35.12	37.221		
8,500.0	8,407.3	7,487.1	7,414.3	21.9	29.7	139.33	1,089.2	142.0	1,317.6	1,282.5	35.09	37.553		

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

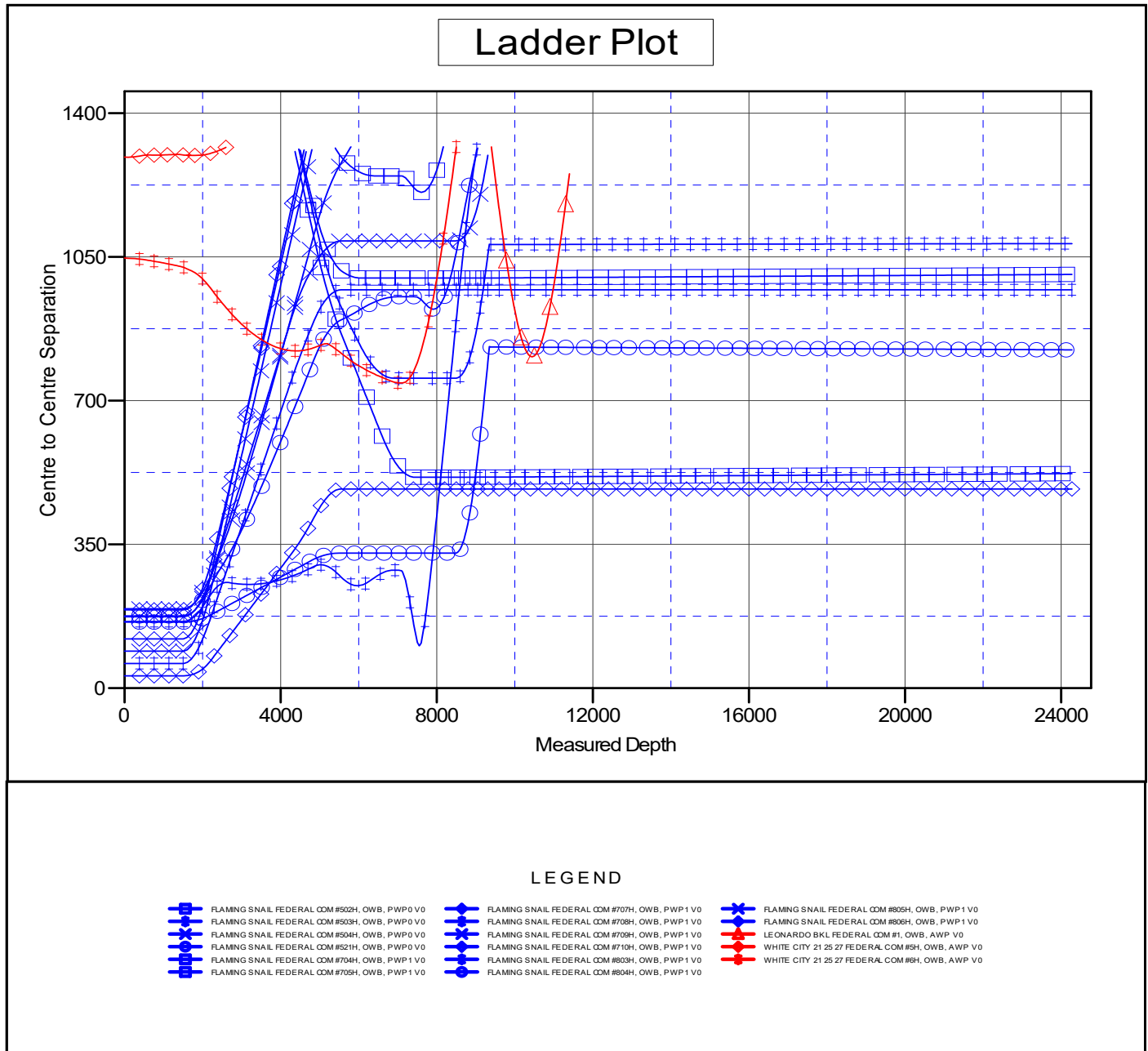
ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 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 3152.5ft @ 3184.5usft
 Offset Depths are relative to Offset Datum
 Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: FLAMING SNAIL FEDERAL COM #706H
 Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
 Grid Convergence at Surface is: 0.07°



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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 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 3152.5ft @ 3184.5usf

Offset Depths are relative to Offset Datum

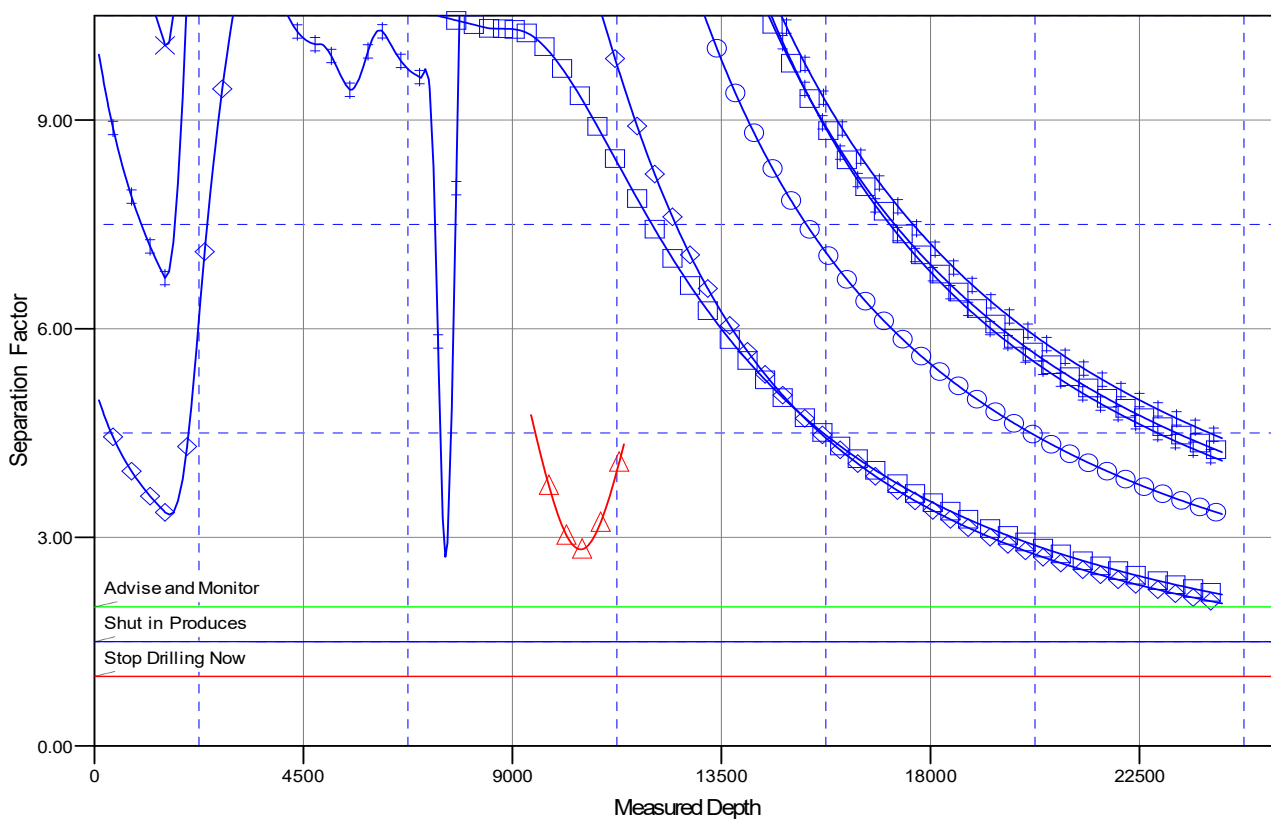
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: FLAMING SNAIL FEDERAL COM #706H

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

Grid Convergence at Surface is: 0.07°

Separation Factor Plot



LEGEND

FLAMING SNAIL FEDERAL COM #502H, OWB, PWP0 V0	FLAMING SNAIL FEDERAL COM #707H, OWB, PWP1 V0	FLAMING SNAIL FEDERAL COM #805H, OWB, PWP1 V0
FLAMING SNAIL FEDERAL COM #503H, OWB, PWP0 V0	FLAMING SNAIL FEDERAL COM #708H, OWB, PWP1 V0	FLAMING SNAIL FEDERAL COM #806H, OWB, PWP1 V0
FLAMING SNAIL FEDERAL COM #504H, OWB, PWP0 V0	FLAMING SNAIL FEDERAL COM #709H, OWB, PWP1 V0	LEONARDO BKL FEDERAL COM #1, OWB, AWP V0
FLAMING SNAIL FEDERAL COM #521H, OWB, PWP0 V0	FLAMING SNAIL FEDERAL COM #710H, OWB, PWP1 V0	WHITE CITY 21 25 27 FEDERAL COM #5H, OWB, AWP V0
FLAMING SNAIL FEDERAL COM #704H, OWB, PWP1 V0	FLAMING SNAIL FEDERAL COM #803H, OWB, PWP1 V0	WHITE CITY 21 25 27 FEDERAL COM #6H, OWB, AWP V0
FLAMING SNAIL FEDERAL COM #705H, OWB, PWP1 V0	FLAMING SNAIL FEDERAL COM #804H, OWB, PWP1 V0	

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

DELAWARE BASIN WEST

ATLAS PROSPECT (NM-E)

FLAMING SNAIL FED COM PROJECT

FLAMING SNAIL FEDERAL COM #706H

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 #706H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

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

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

Well	FLAMING SNAIL FEDERAL COM #706H					
Well Position	+N/-S	-642.1 usft	Northing:	402,379.60 usft	Latitude:	32° 6' 22.265 N
	+E/-W	1,815.6 usft	Easting:	542,127.50 usft	Longitude:	104° 11' 50.204 W
Position Uncertainty		3.0 usft	Wellhead Elevation:		Ground Level:	3,152.5 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2022	12/1/2023	6.78	59.68	47,314.39257283

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	177.81

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	8,485.8 PWP1 (OWB)	r.5 MWD+IFR1 OWSG MWD + IFR1 rev.5		
3	8,485.8	24,277.5 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 #706H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,200.1	14.00	61.49	2,193.2	40.6	74.8	2.00	2.00	0.00	61.49	
4,853.6	14.00	61.49	4,767.8	347.1	639.0	0.00	0.00	0.00	0.00	
5,553.7	0.00	0.00	5,461.0	387.7	713.8	2.00	-2.00	0.00	180.00	
8,485.8	0.00	0.00	8,393.0	387.7	713.8	0.00	0.00	0.00	0.00	
9,385.2	89.94	180.51	8,966.0	-184.7	708.7	10.00	10.00	-19.96	180.51	
24,147.5	89.94	180.51	8,980.9	-14,946.4	578.0	0.00	0.00	0.00	0.00	LTP (FLAMING SNAII
24,277.5	89.94	180.51	8,981.0	-15,076.4	576.8	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 #706H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #706H	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	61.49	1,600.0	0.8	1.5	-0.8	2.00	2.00	0.00
1,700.0	4.00	61.49	1,699.8	3.3	6.1	-3.1	2.00	2.00	0.00
1,800.0	6.00	61.49	1,799.5	7.5	13.8	-7.0	2.00	2.00	0.00
1,900.0	8.00	61.49	1,898.7	13.3	24.5	-12.4	2.00	2.00	0.00
2,000.0	10.00	61.49	1,997.5	20.8	38.2	-19.3	2.00	2.00	0.00
2,100.0	12.00	61.49	2,095.6	29.9	55.0	-27.8	2.00	2.00	0.00
2,200.1	14.00	61.49	2,193.2	40.6	74.8	-37.7	2.00	2.00	0.00
Start 2653.5 hold at 2200.1 MD									
2,300.0	14.00	61.49	2,290.1	52.2	96.0	-48.5	0.00	0.00	0.00
2,400.0	14.00	61.49	2,387.1	63.7	117.3	-59.2	0.00	0.00	0.00
2,500.0	14.00	61.49	2,484.1	75.3	138.6	-69.9	0.00	0.00	0.00
2,600.0	14.00	61.49	2,581.2	86.8	159.8	-80.6	0.00	0.00	0.00
2,700.0	14.00	61.49	2,678.2	98.4	181.1	-91.4	0.00	0.00	0.00
2,800.0	14.00	61.49	2,775.2	109.9	202.4	-102.1	0.00	0.00	0.00
2,900.0	14.00	61.49	2,872.3	121.5	223.6	-112.8	0.00	0.00	0.00
3,000.0	14.00	61.49	2,969.3	133.0	244.9	-123.5	0.00	0.00	0.00
3,100.0	14.00	61.49	3,066.3	144.6	266.1	-134.3	0.00	0.00	0.00
3,200.0	14.00	61.49	3,163.3	156.1	287.4	-145.0	0.00	0.00	0.00
3,300.0	14.00	61.49	3,260.4	167.6	308.7	-155.7	0.00	0.00	0.00
3,400.0	14.00	61.49	3,357.4	179.2	329.9	-166.5	0.00	0.00	0.00
3,500.0	14.00	61.49	3,454.4	190.7	351.2	-177.2	0.00	0.00	0.00
3,600.0	14.00	61.49	3,551.5	202.3	372.4	-187.9	0.00	0.00	0.00
3,700.0	14.00	61.49	3,648.5	213.8	393.7	-198.6	0.00	0.00	0.00
3,800.0	14.00	61.49	3,745.5	225.4	415.0	-209.4	0.00	0.00	0.00
3,900.0	14.00	61.49	3,842.5	236.9	436.2	-220.1	0.00	0.00	0.00
4,000.0	14.00	61.49	3,939.6	248.5	457.5	-230.8	0.00	0.00	0.00
4,100.0	14.00	61.49	4,036.6	260.0	478.8	-241.5	0.00	0.00	0.00
4,200.0	14.00	61.49	4,133.6	271.6	500.0	-252.3	0.00	0.00	0.00
4,300.0	14.00	61.49	4,230.7	283.1	521.3	-263.0	0.00	0.00	0.00
4,400.0	14.00	61.49	4,327.7	294.7	542.5	-273.7	0.00	0.00	0.00
4,500.0	14.00	61.49	4,424.7	306.2	563.8	-284.5	0.00	0.00	0.00
4,600.0	14.00	61.49	4,521.7	317.8	585.1	-295.2	0.00	0.00	0.00
4,700.0	14.00	61.49	4,618.8	329.3	606.3	-305.9	0.00	0.00	0.00
4,800.0	14.00	61.49	4,715.8	340.9	627.6	-316.6	0.00	0.00	0.00
4,853.6	14.00	61.49	4,767.8	347.1	639.0	-322.4	0.00	0.00	0.00
Start Drop -2.00									

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #706H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #706H	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)
4,900.0	13.07	61.49	4,812.9	352.3	648.5	-327.2	2.00	-2.00	0.00
5,000.0	11.07	61.49	4,910.7	362.2	666.9	-336.5	2.00	-2.00	0.00
5,100.0	9.07	61.49	5,009.2	370.6	682.3	-344.2	2.00	-2.00	0.00
5,200.0	7.07	61.49	5,108.2	377.3	694.6	-350.5	2.00	-2.00	0.00
5,300.0	5.07	61.49	5,207.6	382.3	703.9	-355.1	2.00	-2.00	0.00
5,400.0	3.07	61.49	5,307.3	385.7	710.2	-358.3	2.00	-2.00	0.00
5,500.0	1.07	61.49	5,407.3	387.5	713.4	-359.9	2.00	-2.00	0.00
5,553.7	0.00	0.00	5,461.0	387.7	713.8	-360.1	2.00	-2.00	0.00
Start 2932.0 hold at 5553.7 MD									
5,600.0	0.00	0.00	5,507.3	387.7	713.8	-360.1	0.00	0.00	0.00
5,700.0	0.00	0.00	5,607.3	387.7	713.8	-360.1	0.00	0.00	0.00
5,800.0	0.00	0.00	5,707.3	387.7	713.8	-360.1	0.00	0.00	0.00
5,900.0	0.00	0.00	5,807.3	387.7	713.8	-360.1	0.00	0.00	0.00
6,000.0	0.00	0.00	5,907.3	387.7	713.8	-360.1	0.00	0.00	0.00
6,100.0	0.00	0.00	6,007.3	387.7	713.8	-360.1	0.00	0.00	0.00
6,200.0	0.00	0.00	6,107.3	387.7	713.8	-360.1	0.00	0.00	0.00
6,300.0	0.00	0.00	6,207.3	387.7	713.8	-360.1	0.00	0.00	0.00
6,400.0	0.00	0.00	6,307.3	387.7	713.8	-360.1	0.00	0.00	0.00
6,500.0	0.00	0.00	6,407.3	387.7	713.8	-360.1	0.00	0.00	0.00
6,600.0	0.00	0.00	6,507.3	387.7	713.8	-360.1	0.00	0.00	0.00
6,700.0	0.00	0.00	6,607.3	387.7	713.8	-360.1	0.00	0.00	0.00
6,800.0	0.00	0.00	6,707.3	387.7	713.8	-360.1	0.00	0.00	0.00
6,900.0	0.00	0.00	6,807.3	387.7	713.8	-360.1	0.00	0.00	0.00
7,000.0	0.00	0.00	6,907.3	387.7	713.8	-360.1	0.00	0.00	0.00
7,100.0	0.00	0.00	7,007.3	387.7	713.8	-360.1	0.00	0.00	0.00
7,200.0	0.00	0.00	7,107.3	387.7	713.8	-360.1	0.00	0.00	0.00
7,300.0	0.00	0.00	7,207.3	387.7	713.8	-360.1	0.00	0.00	0.00
7,400.0	0.00	0.00	7,307.3	387.7	713.8	-360.1	0.00	0.00	0.00
7,500.0	0.00	0.00	7,407.3	387.7	713.8	-360.1	0.00	0.00	0.00
7,600.0	0.00	0.00	7,507.3	387.7	713.8	-360.1	0.00	0.00	0.00
7,700.0	0.00	0.00	7,607.3	387.7	713.8	-360.1	0.00	0.00	0.00
7,800.0	0.00	0.00	7,707.3	387.7	713.8	-360.1	0.00	0.00	0.00
7,900.0	0.00	0.00	7,807.3	387.7	713.8	-360.1	0.00	0.00	0.00
8,000.0	0.00	0.00	7,907.3	387.7	713.8	-360.1	0.00	0.00	0.00
8,100.0	0.00	0.00	8,007.3	387.7	713.8	-360.1	0.00	0.00	0.00
8,200.0	0.00	0.00	8,107.3	387.7	713.8	-360.1	0.00	0.00	0.00
8,300.0	0.00	0.00	8,207.3	387.7	713.8	-360.1	0.00	0.00	0.00
8,400.0	0.00	0.00	8,307.3	387.7	713.8	-360.1	0.00	0.00	0.00
8,485.8	0.00	0.00	8,393.0	387.7	713.8	-360.1	0.00	0.00	0.00
Start DLS 10.00 TFO 180.51									
8,500.0	1.42	180.51	8,407.3	387.5	713.8	-360.0	10.00	10.00	0.00
8,550.0	6.42	180.51	8,457.1	384.1	713.8	-356.5	10.00	10.00	0.00
8,600.0	11.42	180.51	8,506.5	376.4	713.7	-348.8	10.00	10.00	0.00
8,650.0	16.42	180.51	8,555.0	364.3	713.6	-336.8	10.00	10.00	0.00
8,700.0	21.42	180.51	8,602.3	348.1	713.4	-320.6	10.00	10.00	0.00
8,750.0	26.42	180.51	8,648.0	327.9	713.3	-300.3	10.00	10.00	0.00
8,800.0	31.42	180.51	8,691.7	303.7	713.1	-276.2	10.00	10.00	0.00
8,850.0	36.42	180.51	8,733.2	275.8	712.8	-248.3	10.00	10.00	0.00
8,900.0	41.42	180.51	8,772.1	244.4	712.5	-217.0	10.00	10.00	0.00
8,950.0	46.42	180.51	8,808.1	209.7	712.2	-182.3	10.00	10.00	0.00
9,000.0	51.42	180.51	8,841.0	172.0	711.9	-144.7	10.00	10.00	0.00
9,050.0	56.42	180.51	8,870.4	131.6	711.5	-104.3	10.00	10.00	0.00
9,100.0	61.42	180.51	8,896.2	88.8	711.2	-61.6	10.00	10.00	0.00
9,150.0	66.42	180.51	8,918.2	43.9	710.8	-16.7	10.00	10.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #706H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #706H	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)
9,200.0	71.42	180.51	8,936.1	-2.7	710.3	29.9	10.00	10.00	0.00
9,250.0	76.42	180.51	8,950.0	-50.7	709.9	77.8	10.00	10.00	0.00
9,300.0	81.42	180.51	8,959.6	-99.8	709.5	126.8	10.00	10.00	0.00
9,350.0	86.42	180.51	8,964.9	-149.5	709.0	176.5	10.00	10.00	0.00
9,385.2	89.94	180.51	8,966.0	-184.7	708.7	211.6	10.00	10.00	0.00
Start 14762.3 hold at 9385.2 MD									
9,400.0	89.94	180.51	8,966.0	-199.4	708.6	226.4	0.00	0.00	0.00
9,500.0	89.94	180.51	8,966.1	-299.4	707.7	326.3	0.00	0.00	0.00
9,600.0	89.94	180.51	8,966.2	-399.4	706.8	426.2	0.00	0.00	0.00
9,700.0	89.94	180.51	8,966.3	-499.4	705.9	526.1	0.00	0.00	0.00
9,800.0	89.94	180.51	8,966.4	-599.4	705.1	625.9	0.00	0.00	0.00
9,900.0	89.94	180.51	8,966.5	-699.4	704.2	725.8	0.00	0.00	0.00
10,000.0	89.94	180.51	8,966.6	-799.4	703.3	825.7	0.00	0.00	0.00
10,100.0	89.94	180.51	8,966.7	-899.4	702.4	925.6	0.00	0.00	0.00
10,200.0	89.94	180.51	8,966.8	-999.4	701.5	1,025.5	0.00	0.00	0.00
10,300.0	89.94	180.51	8,966.9	-1,099.4	700.6	1,125.4	0.00	0.00	0.00
10,400.0	89.94	180.51	8,967.0	-1,199.4	699.7	1,225.3	0.00	0.00	0.00
10,500.0	89.94	180.51	8,967.1	-1,299.4	698.9	1,325.2	0.00	0.00	0.00
10,600.0	89.94	180.51	8,967.2	-1,399.4	698.0	1,425.1	0.00	0.00	0.00
10,700.0	89.94	180.51	8,967.3	-1,499.4	697.1	1,525.0	0.00	0.00	0.00
10,800.0	89.94	180.51	8,967.4	-1,599.4	696.2	1,624.8	0.00	0.00	0.00
10,900.0	89.94	180.51	8,967.5	-1,699.4	695.3	1,724.7	0.00	0.00	0.00
11,000.0	89.94	180.51	8,967.6	-1,799.4	694.4	1,824.6	0.00	0.00	0.00
11,100.0	89.94	180.51	8,967.7	-1,899.4	693.5	1,924.5	0.00	0.00	0.00
11,200.0	89.94	180.51	8,967.8	-1,999.4	692.7	2,024.4	0.00	0.00	0.00
11,300.0	89.94	180.51	8,967.9	-2,099.4	691.8	2,124.3	0.00	0.00	0.00
11,400.0	89.94	180.51	8,968.0	-2,199.4	690.9	2,224.2	0.00	0.00	0.00
11,500.0	89.94	180.51	8,968.1	-2,299.4	690.0	2,324.1	0.00	0.00	0.00
11,600.0	89.94	180.51	8,968.2	-2,399.4	689.1	2,424.0	0.00	0.00	0.00
11,700.0	89.94	180.51	8,968.3	-2,499.4	688.2	2,523.8	0.00	0.00	0.00
11,800.0	89.94	180.51	8,968.4	-2,599.4	687.3	2,623.7	0.00	0.00	0.00
11,900.0	89.94	180.51	8,968.5	-2,699.3	686.5	2,723.6	0.00	0.00	0.00
12,000.0	89.94	180.51	8,968.6	-2,799.3	685.6	2,823.5	0.00	0.00	0.00
12,100.0	89.94	180.51	8,968.7	-2,899.3	684.7	2,923.4	0.00	0.00	0.00
12,200.0	89.94	180.51	8,968.8	-2,999.3	683.8	3,023.3	0.00	0.00	0.00
12,300.0	89.94	180.51	8,968.9	-3,099.3	682.9	3,123.2	0.00	0.00	0.00
12,400.0	89.94	180.51	8,969.0	-3,199.3	682.0	3,223.1	0.00	0.00	0.00
12,500.0	89.94	180.51	8,969.1	-3,299.3	681.1	3,323.0	0.00	0.00	0.00
12,600.0	89.94	180.51	8,969.2	-3,399.3	680.3	3,422.8	0.00	0.00	0.00
12,700.0	89.94	180.51	8,969.3	-3,499.3	679.4	3,522.7	0.00	0.00	0.00
12,800.0	89.94	180.51	8,969.4	-3,599.3	678.5	3,622.6	0.00	0.00	0.00
12,900.0	89.94	180.51	8,969.5	-3,699.3	677.6	3,722.5	0.00	0.00	0.00
13,000.0	89.94	180.51	8,969.6	-3,799.3	676.7	3,822.4	0.00	0.00	0.00
13,100.0	89.94	180.51	8,969.7	-3,899.3	675.8	3,922.3	0.00	0.00	0.00
13,200.0	89.94	180.51	8,969.8	-3,999.3	674.9	4,022.2	0.00	0.00	0.00
13,300.0	89.94	180.51	8,969.9	-4,099.3	674.1	4,122.1	0.00	0.00	0.00
13,400.0	89.94	180.51	8,970.0	-4,199.3	673.2	4,222.0	0.00	0.00	0.00
13,500.0	89.94	180.51	8,970.1	-4,299.3	672.3	4,321.8	0.00	0.00	0.00
13,600.0	89.94	180.51	8,970.2	-4,399.3	671.4	4,421.7	0.00	0.00	0.00
13,700.0	89.94	180.51	8,970.3	-4,499.3	670.5	4,521.6	0.00	0.00	0.00
13,800.0	89.94	180.51	8,970.4	-4,599.3	669.6	4,621.5	0.00	0.00	0.00
13,900.0	89.94	180.51	8,970.5	-4,699.3	668.7	4,721.4	0.00	0.00	0.00
14,000.0	89.94	180.51	8,970.6	-4,799.3	667.9	4,821.3	0.00	0.00	0.00
14,100.0	89.94	180.51	8,970.7	-4,899.3	667.0	4,921.2	0.00	0.00	0.00

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Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #706H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
14,200.0	89.94	180.51	8,970.8	-4,999.3	666.1	5,021.1	0.00	0.00	0.00
14,300.0	89.94	180.51	8,971.0	-5,099.3	665.2	5,121.0	0.00	0.00	0.00
14,400.0	89.94	180.51	8,971.1	-5,199.3	664.3	5,220.8	0.00	0.00	0.00
14,500.0	89.94	180.51	8,971.2	-5,299.2	663.4	5,320.7	0.00	0.00	0.00
14,600.0	89.94	180.51	8,971.3	-5,399.2	662.6	5,420.6	0.00	0.00	0.00
14,700.0	89.94	180.51	8,971.4	-5,499.2	661.7	5,520.5	0.00	0.00	0.00
14,800.0	89.94	180.51	8,971.5	-5,599.2	660.8	5,620.4	0.00	0.00	0.00
14,900.0	89.94	180.51	8,971.6	-5,699.2	659.9	5,720.3	0.00	0.00	0.00
15,000.0	89.94	180.51	8,971.7	-5,799.2	659.0	5,820.2	0.00	0.00	0.00
15,100.0	89.94	180.51	8,971.8	-5,899.2	658.1	5,920.1	0.00	0.00	0.00
15,200.0	89.94	180.51	8,971.9	-5,999.2	657.2	6,020.0	0.00	0.00	0.00
15,300.0	89.94	180.51	8,972.0	-6,099.2	656.4	6,119.8	0.00	0.00	0.00
15,400.0	89.94	180.51	8,972.1	-6,199.2	655.5	6,219.7	0.00	0.00	0.00
15,500.0	89.94	180.51	8,972.2	-6,299.2	654.6	6,319.6	0.00	0.00	0.00
15,600.0	89.94	180.51	8,972.3	-6,399.2	653.7	6,419.5	0.00	0.00	0.00
15,700.0	89.94	180.51	8,972.4	-6,499.2	652.8	6,519.4	0.00	0.00	0.00
15,800.0	89.94	180.51	8,972.5	-6,599.2	651.9	6,619.3	0.00	0.00	0.00
15,900.0	89.94	180.51	8,972.6	-6,699.2	651.0	6,719.2	0.00	0.00	0.00
16,000.0	89.94	180.51	8,972.7	-6,799.2	650.2	6,819.1	0.00	0.00	0.00
16,100.0	89.94	180.51	8,972.8	-6,899.2	649.3	6,919.0	0.00	0.00	0.00
16,200.0	89.94	180.51	8,972.9	-6,999.2	648.4	7,018.8	0.00	0.00	0.00
16,300.0	89.94	180.51	8,973.0	-7,099.2	647.5	7,118.7	0.00	0.00	0.00
16,400.0	89.94	180.51	8,973.1	-7,199.2	646.6	7,218.6	0.00	0.00	0.00
16,500.0	89.94	180.51	8,973.2	-7,299.2	645.7	7,318.5	0.00	0.00	0.00
16,600.0	89.94	180.51	8,973.3	-7,399.2	644.8	7,418.4	0.00	0.00	0.00
16,700.0	89.94	180.51	8,973.4	-7,499.2	644.0	7,518.3	0.00	0.00	0.00
16,800.0	89.94	180.51	8,973.5	-7,599.2	643.1	7,618.2	0.00	0.00	0.00
16,900.0	89.94	180.51	8,973.6	-7,699.2	642.2	7,718.1	0.00	0.00	0.00
17,000.0	89.94	180.51	8,973.7	-7,799.1	641.3	7,818.0	0.00	0.00	0.00
17,100.0	89.94	180.51	8,973.8	-7,899.1	640.4	7,917.9	0.00	0.00	0.00
17,200.0	89.94	180.51	8,973.9	-7,999.1	639.5	8,017.7	0.00	0.00	0.00
17,300.0	89.94	180.51	8,974.0	-8,099.1	638.6	8,117.6	0.00	0.00	0.00
17,400.0	89.94	180.51	8,974.1	-8,199.1	637.8	8,217.5	0.00	0.00	0.00
17,500.0	89.94	180.51	8,974.2	-8,299.1	636.9	8,317.4	0.00	0.00	0.00
17,600.0	89.94	180.51	8,974.3	-8,399.1	636.0	8,417.3	0.00	0.00	0.00
17,700.0	89.94	180.51	8,974.4	-8,499.1	635.1	8,517.2	0.00	0.00	0.00
17,800.0	89.94	180.51	8,974.5	-8,599.1	634.2	8,617.1	0.00	0.00	0.00
17,900.0	89.94	180.51	8,974.6	-8,699.1	633.3	8,717.0	0.00	0.00	0.00
18,000.0	89.94	180.51	8,974.7	-8,799.1	632.4	8,816.9	0.00	0.00	0.00
18,100.0	89.94	180.51	8,974.8	-8,899.1	631.6	8,916.7	0.00	0.00	0.00
18,200.0	89.94	180.51	8,974.9	-8,999.1	630.7	9,016.6	0.00	0.00	0.00
18,300.0	89.94	180.51	8,975.0	-9,099.1	629.8	9,116.5	0.00	0.00	0.00
18,400.0	89.94	180.51	8,975.1	-9,199.1	628.9	9,216.4	0.00	0.00	0.00
18,500.0	89.94	180.51	8,975.2	-9,299.1	628.0	9,316.3	0.00	0.00	0.00
18,600.0	89.94	180.51	8,975.3	-9,399.1	627.1	9,416.2	0.00	0.00	0.00
18,700.0	89.94	180.51	8,975.4	-9,499.1	626.2	9,516.1	0.00	0.00	0.00
18,800.0	89.94	180.51	8,975.5	-9,599.1	625.4	9,616.0	0.00	0.00	0.00
18,900.0	89.94	180.51	8,975.6	-9,699.1	624.5	9,715.9	0.00	0.00	0.00
19,000.0	89.94	180.51	8,975.7	-9,799.1	623.6	9,815.7	0.00	0.00	0.00
19,100.0	89.94	180.51	8,975.8	-9,899.1	622.7	9,915.6	0.00	0.00	0.00
19,200.0	89.94	180.51	8,975.9	-9,999.1	621.8	10,015.5	0.00	0.00	0.00
19,300.0	89.94	180.51	8,976.0	-10,099.1	620.9	10,115.4	0.00	0.00	0.00
19,400.0	89.94	180.51	8,976.1	-10,199.1	620.0	10,215.3	0.00	0.00	0.00
19,500.0	89.94	180.51	8,976.2	-10,299.0	619.2	10,315.2	0.00	0.00	0.00

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Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #706H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #706H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
19,600.0	89.94	180.51	8,976.3	-10,399.0	618.3	10,415.1	0.00	0.00	0.00
19,700.0	89.94	180.51	8,976.4	-10,499.0	617.4	10,515.0	0.00	0.00	0.00
19,800.0	89.94	180.51	8,976.5	-10,599.0	616.5	10,614.9	0.00	0.00	0.00
19,900.0	89.94	180.51	8,976.6	-10,699.0	615.6	10,714.7	0.00	0.00	0.00
20,000.0	89.94	180.51	8,976.7	-10,799.0	614.7	10,814.6	0.00	0.00	0.00
20,100.0	89.94	180.51	8,976.8	-10,899.0	613.8	10,914.5	0.00	0.00	0.00
20,200.0	89.94	180.51	8,976.9	-10,999.0	613.0	11,014.4	0.00	0.00	0.00
20,300.0	89.94	180.51	8,977.0	-11,099.0	612.1	11,114.3	0.00	0.00	0.00
20,400.0	89.94	180.51	8,977.1	-11,199.0	611.2	11,214.2	0.00	0.00	0.00
20,500.0	89.94	180.51	8,977.2	-11,299.0	610.3	11,314.1	0.00	0.00	0.00
20,600.0	89.94	180.51	8,977.3	-11,399.0	609.4	11,414.0	0.00	0.00	0.00
20,700.0	89.94	180.51	8,977.4	-11,499.0	608.5	11,513.9	0.00	0.00	0.00
20,800.0	89.94	180.51	8,977.5	-11,599.0	607.6	11,613.7	0.00	0.00	0.00
20,900.0	89.94	180.51	8,977.6	-11,699.0	606.8	11,713.6	0.00	0.00	0.00
21,000.0	89.94	180.51	8,977.7	-11,799.0	605.9	11,813.5	0.00	0.00	0.00
21,100.0	89.94	180.51	8,977.8	-11,899.0	605.0	11,913.4	0.00	0.00	0.00
21,200.0	89.94	180.51	8,977.9	-11,999.0	604.1	12,013.3	0.00	0.00	0.00
21,300.0	89.94	180.51	8,978.0	-12,099.0	603.2	12,113.2	0.00	0.00	0.00
21,400.0	89.94	180.51	8,978.1	-12,199.0	602.3	12,213.1	0.00	0.00	0.00
21,500.0	89.94	180.51	8,978.2	-12,299.0	601.4	12,313.0	0.00	0.00	0.00
21,600.0	89.94	180.51	8,978.3	-12,399.0	600.6	12,412.9	0.00	0.00	0.00
21,700.0	89.94	180.51	8,978.4	-12,499.0	599.7	12,512.7	0.00	0.00	0.00
21,800.0	89.94	180.51	8,978.5	-12,599.0	598.8	12,612.6	0.00	0.00	0.00
21,900.0	89.94	180.51	8,978.6	-12,699.0	597.9	12,712.5	0.00	0.00	0.00
22,000.0	89.94	180.51	8,978.7	-12,798.9	597.0	12,812.4	0.00	0.00	0.00
22,100.0	89.94	180.51	8,978.8	-12,898.9	596.1	12,912.3	0.00	0.00	0.00
22,200.0	89.94	180.51	8,978.9	-12,998.9	595.2	13,012.2	0.00	0.00	0.00
22,300.0	89.94	180.51	8,979.0	-13,098.9	594.4	13,112.1	0.00	0.00	0.00
22,400.0	89.94	180.51	8,979.1	-13,198.9	593.5	13,212.0	0.00	0.00	0.00
22,500.0	89.94	180.51	8,979.2	-13,298.9	592.6	13,311.9	0.00	0.00	0.00
22,600.0	89.94	180.51	8,979.3	-13,398.9	591.7	13,411.8	0.00	0.00	0.00
22,700.0	89.94	180.51	8,979.4	-13,498.9	590.8	13,511.6	0.00	0.00	0.00
22,800.0	89.94	180.51	8,979.5	-13,598.9	589.9	13,611.5	0.00	0.00	0.00
22,900.0	89.94	180.51	8,979.6	-13,698.9	589.0	13,711.4	0.00	0.00	0.00
23,000.0	89.94	180.51	8,979.7	-13,798.9	588.2	13,811.3	0.00	0.00	0.00
23,100.0	89.94	180.51	8,979.8	-13,898.9	587.3	13,911.2	0.00	0.00	0.00
23,200.0	89.94	180.51	8,979.9	-13,998.9	586.4	14,011.1	0.00	0.00	0.00
23,300.0	89.94	180.51	8,980.0	-14,098.9	585.5	14,111.0	0.00	0.00	0.00
23,400.0	89.94	180.51	8,980.1	-14,198.9	584.6	14,210.9	0.00	0.00	0.00
23,500.0	89.94	180.51	8,980.2	-14,298.9	583.7	14,310.8	0.00	0.00	0.00
23,600.0	89.94	180.51	8,980.3	-14,398.9	582.8	14,410.6	0.00	0.00	0.00
23,700.0	89.94	180.51	8,980.4	-14,498.9	582.0	14,510.5	0.00	0.00	0.00
23,800.0	89.94	180.51	8,980.5	-14,598.9	581.1	14,610.4	0.00	0.00	0.00
23,900.0	89.94	180.51	8,980.6	-14,698.9	580.2	14,710.3	0.00	0.00	0.00
24,000.0	89.94	180.51	8,980.7	-14,798.9	579.3	14,810.2	0.00	0.00	0.00
24,100.0	89.94	180.51	8,980.8	-14,898.9	578.4	14,910.1	0.00	0.00	0.00
24,147.5	89.94	180.51	8,980.9	-14,946.4	578.0	14,957.6	0.00	0.00	0.00
Start 130.0 hold at 24147.5 MD									
24,200.0	89.94	180.51	8,980.9	-14,998.9	577.5	15,010.0	0.00	0.00	0.00
24,277.5	89.94	180.51	8,981.0	-15,076.4	576.8	15,087.4	0.00	0.00	0.00
TD at 24277.5									

ConocoPhillips
Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #706H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3152.5ft @ 3184.5usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #706H	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	8,966.0	387.7	713.8	402,767.30	542,841.30	32° 6' 26.093 N	104° 11' 41.899 W
- plan misses target center by 237.4usft at 8940.3usft MD (8801.3 TVD, 216.7 N, 712.3 E)									
- Circle (radius 50.0)									
LTP (FLAMING SNAIL F	0.00	0.00	8,980.9	-14,946.4	578.0	387,433.20	542,705.50	32° 3' 54.339 N	104° 11' 43.706 W
- plan hits target center									
- Point									
PBHL (FLAMING SNAIL	0.06	0.51	8,981.0	-15,076.4	576.8	387,303.20	542,704.30	32° 3' 53.053 N	104° 11' 43.722 W
- plan hits target center									
- Rectangle (sides W100.0 H15,464.8 D20.0)									

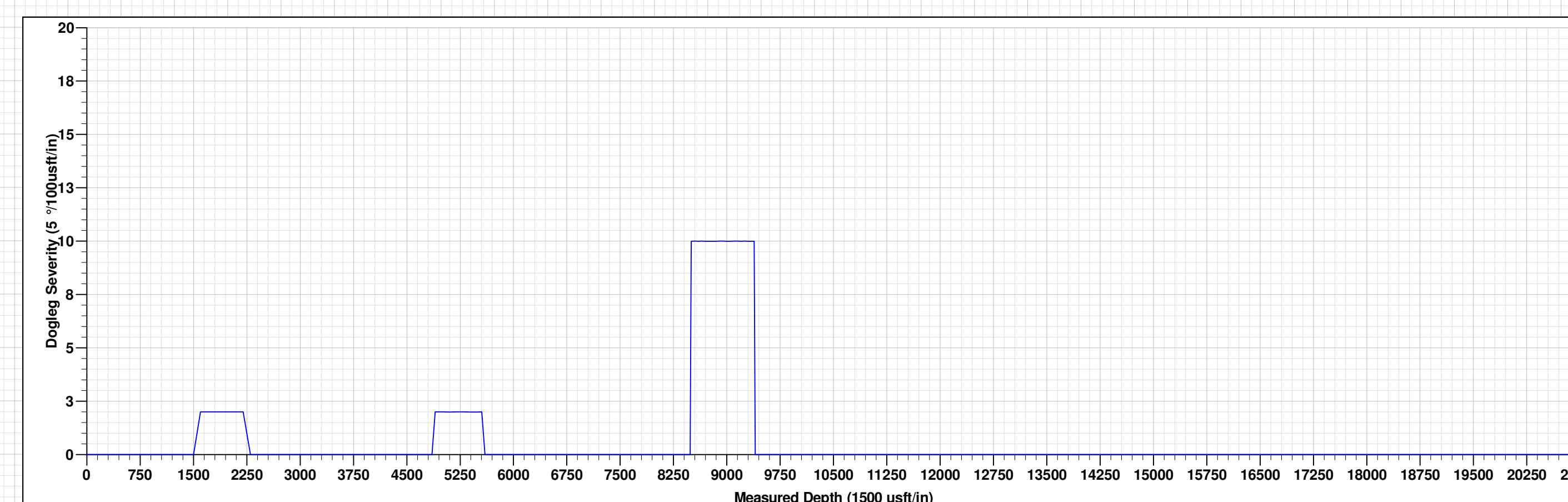
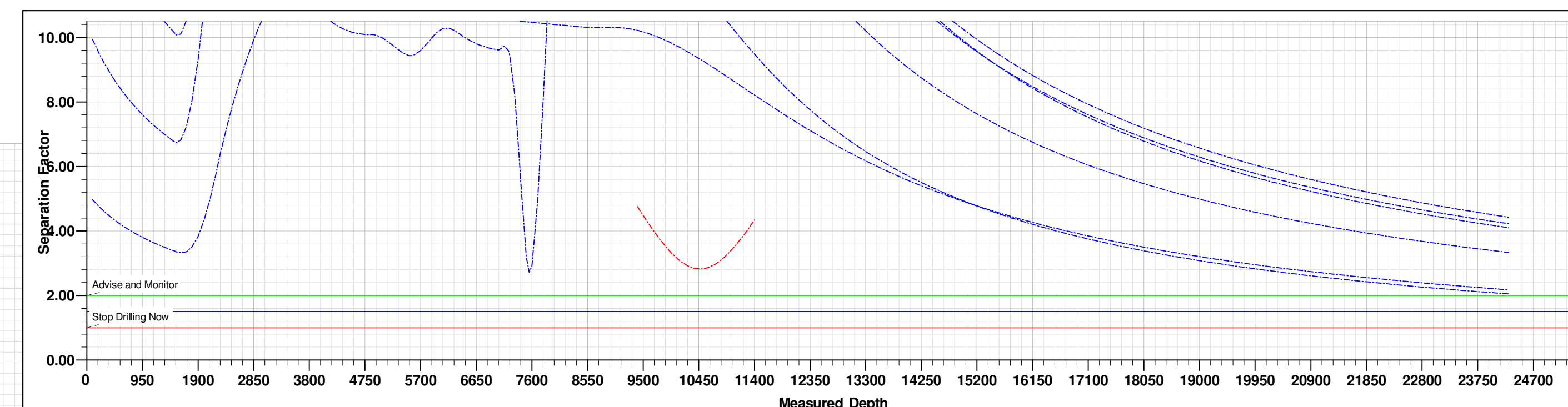
Plan Annotations				
Measured	Vertical	Local Coordinates		
Depth	Depth	+N/-S	+E/-W	Comment
(usft)	(usft)	(usft)	(usft)	
1,500.0	1,500.0	0.0	0.0	Start Build 2.00
2,200.1	2,193.2	40.6	74.8	Start 2653.5 hold at 2200.1 MD
4,853.6	4,767.8	347.1	639.0	Start Drop -2.00
5,553.7	5,461.0	387.7	713.8	Start 2932.0 hold at 5553.7 MD
8,485.8	8,393.0	387.7	713.8	Start DLS 10.00 TFO 180.51
9,385.2	8,966.0	-184.7	708.7	Start 14762.3 hold at 9385.2 MD
24,147.5	8,980.9	-14,946.4	578.0	Start 130.0 hold at 24147.5 MD
24,277.5	8,981.0	-15,076.4	576.8	TD at 24277.5



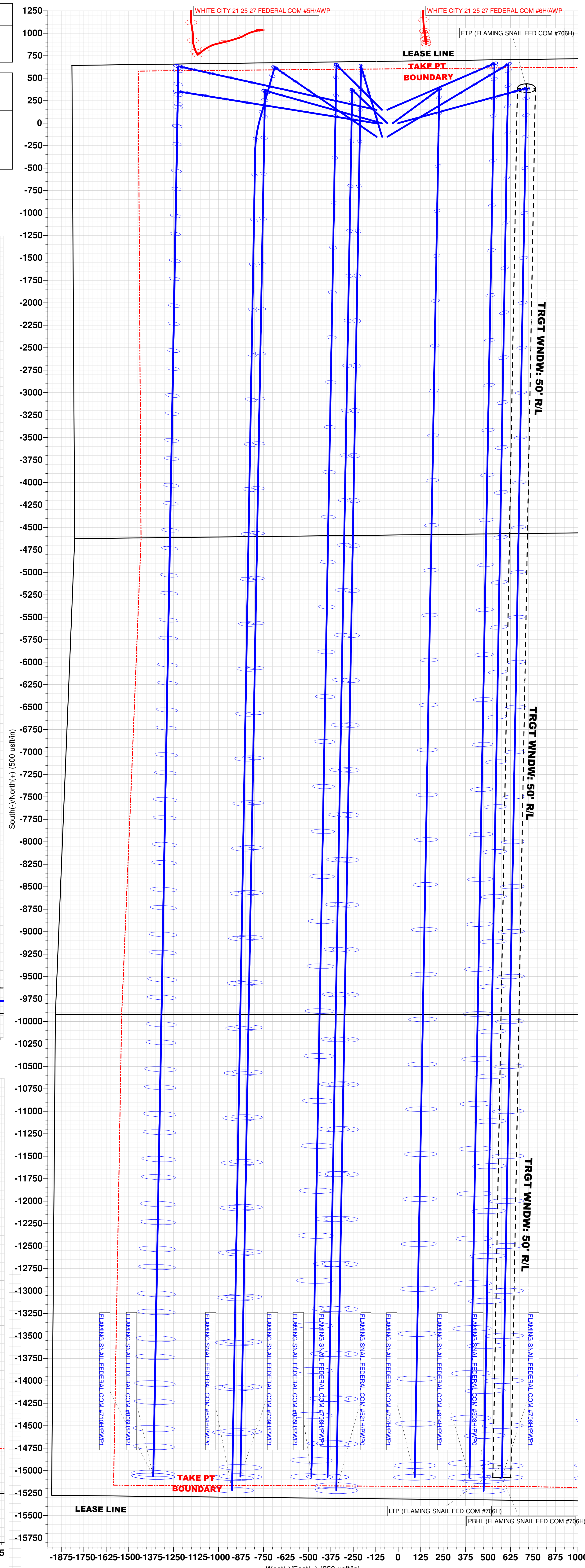
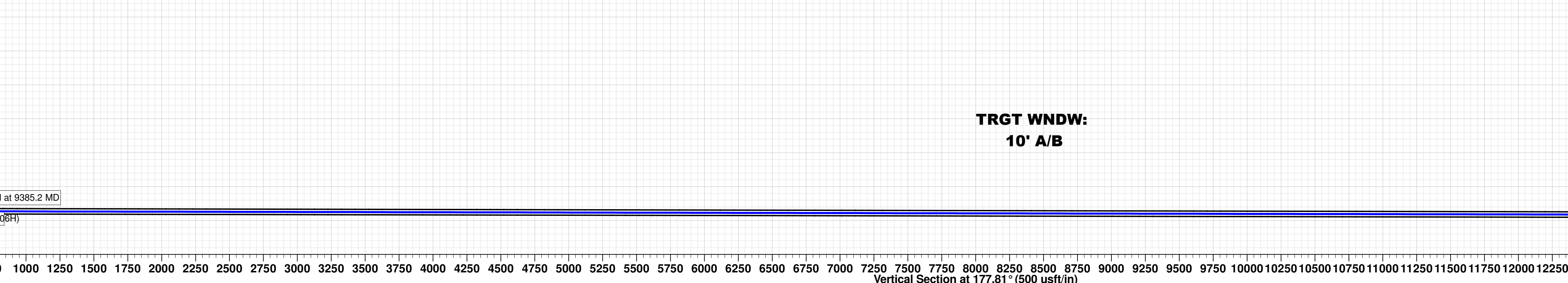
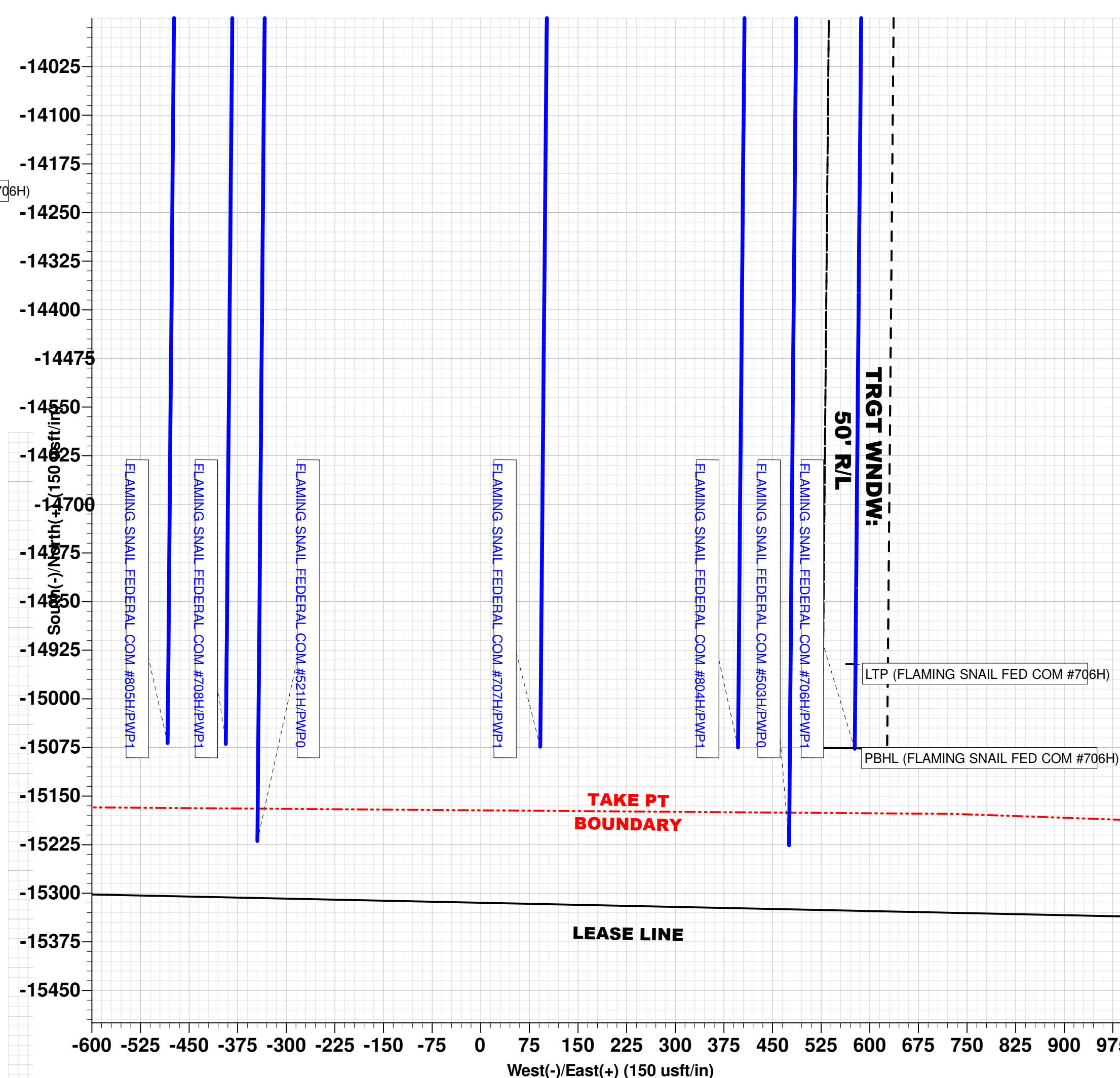
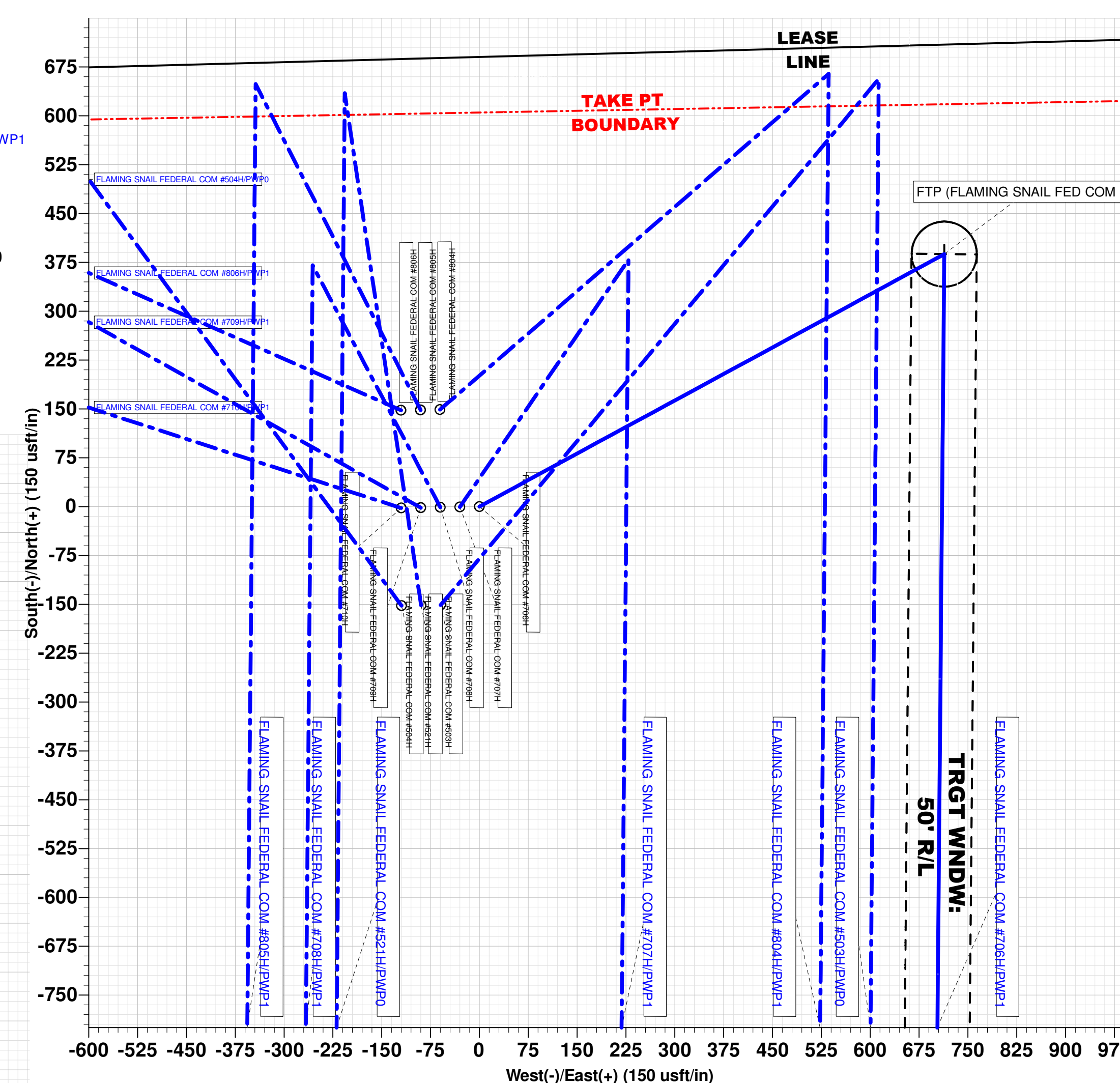
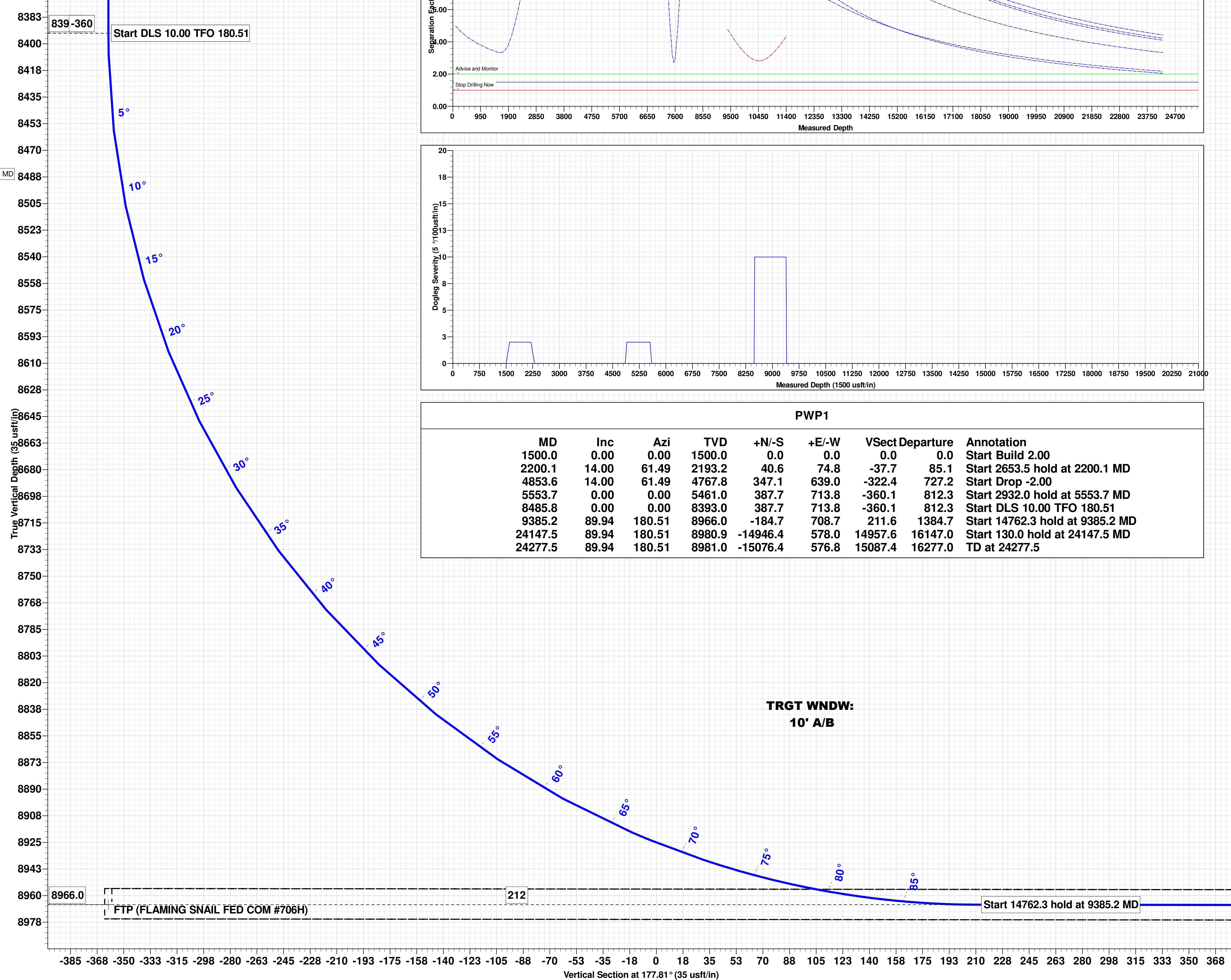
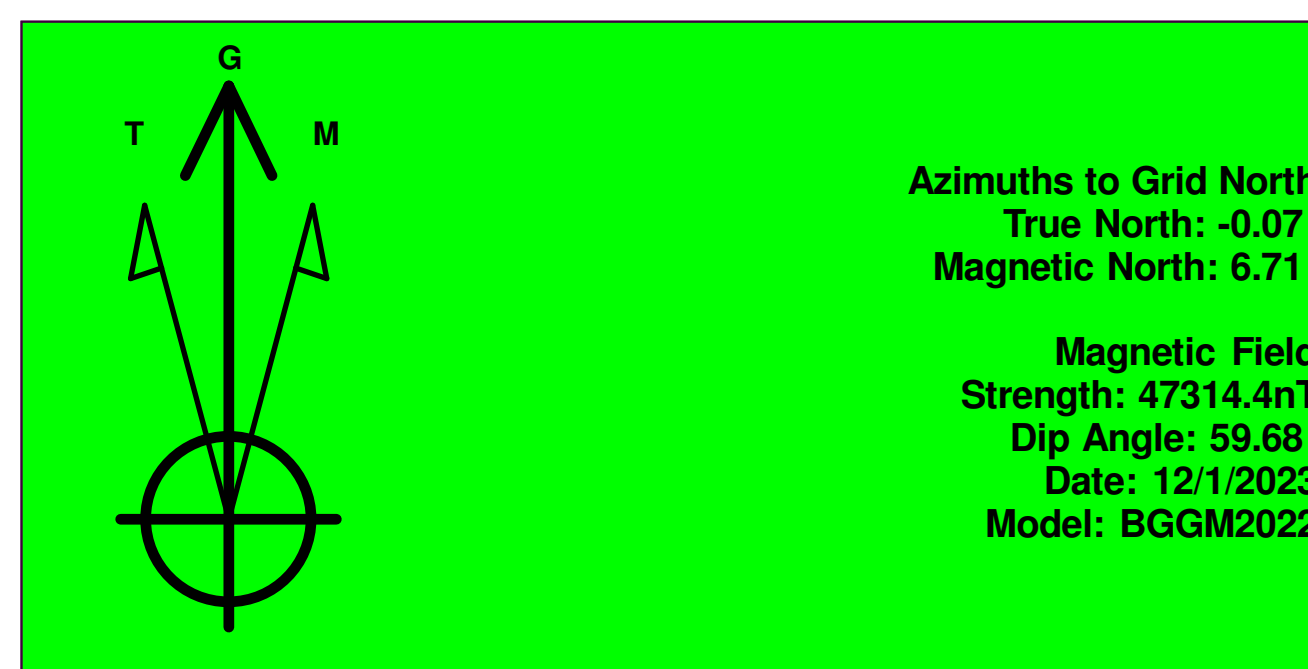
Project: ATLAS PROSPECT (NM-E)
Site: FLAMING SNAIL FED COM PROJECT
Well: FLAMING SNAIL FEDERAL COM #706H
Wellbore: OWB
Design: PWP1
GL: 3152.5
*RKB 32ft + GL 3152.5ft @ 3184.5usft

WELL DETAILS: FLAMING SNAIL FEDERAL COM #706H					
+N-S	+E-W	Northing	Easting	Latitude	Longitude
0.0	0.0	402379.60	542127.50	32° 6' 22.265 N	104° 11' 50.204 W

DESIGN TARGET DETAILS						
Name	TVD	+N-S	+E-W	Northing	Easting	Shape
FTP (FLAMING SNAIL FED COM #706H)	8966.0	387.7	713.8	402767.30	542841.30	Circle (Radius: 50.0)
LTP (FLAMING SNAIL FED COM #706H)	8980.9	-14946.4	578.0	387433.20	542705.50	Point
PBHL (FLAMING SNAIL FED COM #706H)	8981.0	-15076.4	576.8	387303.20	542704.30	Rectangle (Sides: L15464.8 W100.0)



PWP1									
MD	Inc	Azi	TVD	+N-S	+E-W	Vsect	Departure	Annotation	
1500.0	0.00	0.00	1500.0	0.0	0.0	0.0	0.0	Start Build 2.00	
2200.1	14.00	61.49	2193.2	40.6	74.8	-37.7	85.1	Start 2653.5 hold at 2200.1 MD	
4853.6	14.00	61.49	4767.8	347.1	639.0	-322.4	727.2	Start Drop -2.00	
5553.7	0.00	0.00	5461.0	387.7	713.8	-360.1	812.3	Start 2932.0 hold at 5553.7 MD	
8485.8	0.00	0.00	8393.0	387.7	713.8	-360.1	812.3	Start DLS 10.00 TFO 180.51	
9385.2	89.94	180.51	8966.0	0.0	708.7	211.6	1394.7	Start 14762.3 hold at 9385.2 MD	
24147.5	89.94	180.51	8980.9	-14946.4	578.0	14957.6	16147.0	Start 130.0 hold at 24147.5 MD	
24277.5	89.94	180.51	8981.0	-15076.4	576.8	15087.4	16277.0	TD at 24277.5	



PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

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

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

COA

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

A. HYDROGEN SULFIDE

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

B. CASING

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

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

Option 2:

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

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
 - b. Second stage above DV tool:
 - Cement to surface. If cement does not circulate, contact the appropriate BLM office.

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

C. PRESSURE CONTROL

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

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

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

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

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

GENERAL REQUIREMENTS

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

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

☒ Eddy County

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

BLM_NM_CFO_DrillingNotifications@BLM.GOV

(575) 361-2822

☒ Lea County

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

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

A. CASING

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

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

B. PRESSURE CONTROL

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

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

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

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

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

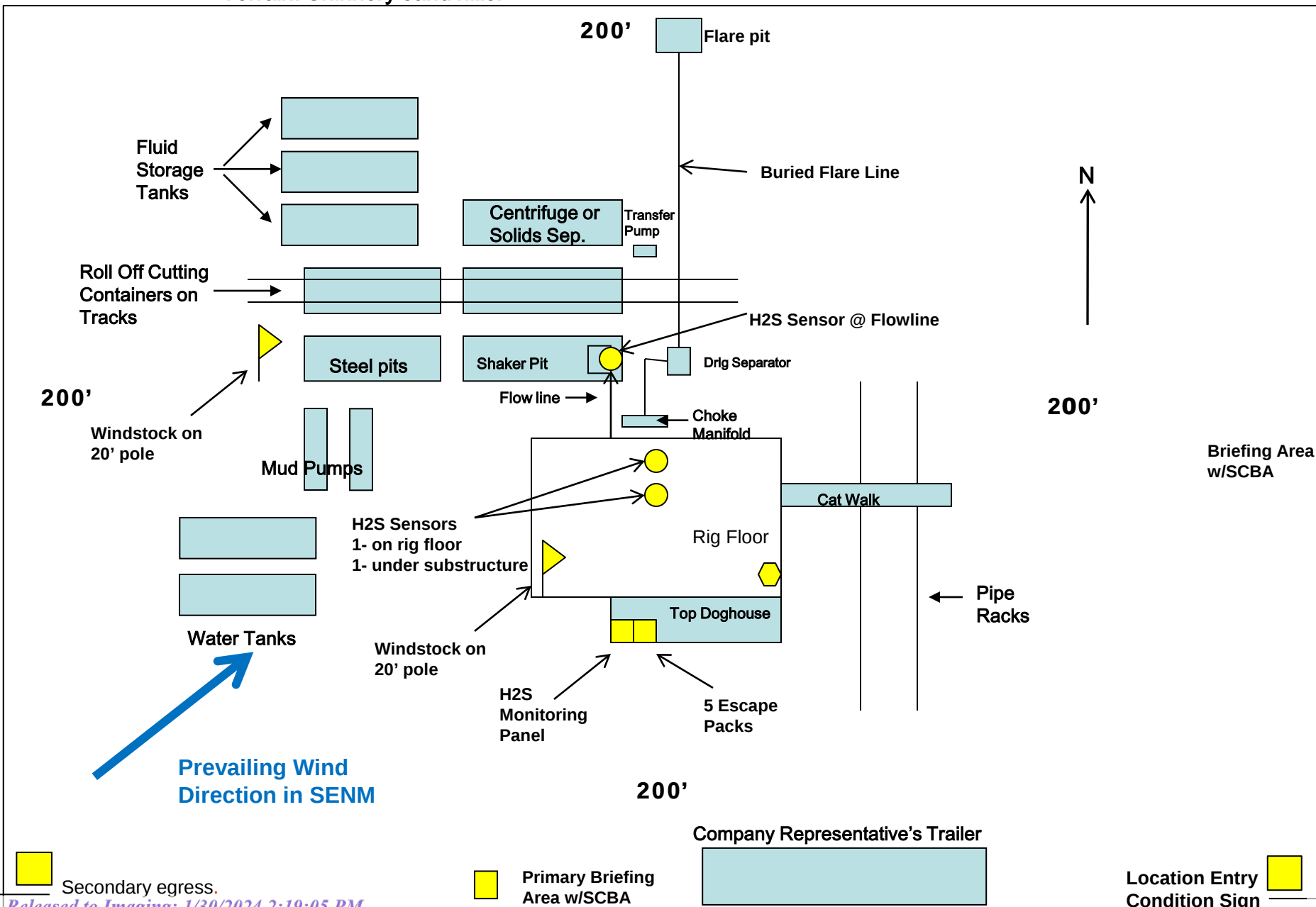
All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location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

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

ZS071123

COG Operating LLC
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 304024

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:
	229137
	Action Number:
	304024
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	1/30/2024
ward.rikala	Will require a File As Drilled C-102 and a Directional Survey with the C-104	1/30/2024
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	1/30/2024
ward.rikala	Cement is required to circulate on both surface and intermediate1 strings of casing	1/30/2024
ward.rikala	If cement does not circulate on any string, a CBL is required for that string of casing	1/30/2024
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	1/30/2024