

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

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

1a. Type of work: ☒ DRILL ☐ REENTER 1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other 1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☒ Multiple Zone		5. Lease Serial No. NMNM92167 6. If Indian, Allottee or Tribe Name 7. If Unit or CA Agreement, Name and No. 8. Lease Name and Well No. FLAMING SNAIL FEDERAL COM 804H 9. API Well No. 30-015-54196
2. Name of Operator COG OPERATING LLC 3a. Address 600 West Illinois Ave, Midland, TX 79701 3b. Phone No. (include area code) (432) 683-7443		10. Field and Pool, or Exploratory /PURPLE SAGE (WOLFCAMP) GAS 11. Sec., T. R. M. or Blk. and Survey or Area SEC 28/T25S/R27E/NMP
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NENW / 557 FNL / 1649 FWL / LAT 32.106707 / LONG -104.198181 At proposed prod. zone SESW / 200 FSL / 2310 FWL / LAT 32.064863 / LONG -104.196553		12. County or Parish EDDY 13. State NM
14. Distance in miles and direction from nearest town or post office* 10 miles		15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 330 feet 16. No of acres in lease 17. Spacing Unit dedicated to this well 1920.0
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 80 feet 19. Proposed Depth 9783 feet / 25060 feet 20. BLM/BIA Bond No. in file FED: NMB000215		21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3150 feet 22. Approximate date work will start* 06/01/2024 23. Estimated duration 30 days
24. Attachments		

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

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

25. Signature (Electronic Submission) Title Regulatory Advisor	Name (Printed/Typed) STAN WAGNER / Ph: (432) 683-7443	Date 10/05/2022
Approved by (Signature) (Electronic Submission) Title Assistant Field Manager Lands & Minerals	Name (Printed/Typed) CODY LAYTON / Ph: (575) 234-5959 Office Carlsbad Field Office	Date 08/25/2023

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

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

(Continued on page 2)

*(Instructions on page 2)



Additional Operator Remarks

Location of Well

0. SHL: NENW / 557 FNL / 1649 FWL / TWSP: 25S / RANGE: 27E / SECTION: 28 / LAT: 32.106707 / LONG: -104.198181 (TVD: 0 feet, MD: 0 feet)
PPP: NENW / 330 FNL / 2310 FWL / TWSP: 25S / RANGE: 27E / SECTION: 28 / LAT: 32.107361 / LONG: -104.196048 (TVD: 9607 feet, MD: 9721 feet)
PPP: NENW / 1 FNL / 2310 FWL / TWSP: 25S / RANGE: 27E / SECTION: 33 / LAT: 32.093713 / LONG: -104.19621 (TVD: 9777 feet, MD: 14902 feet)
PPP: SENW / 1321 FNL / 2310 FWL / TWSP: 25S / RANGE: 27E / SECTION: 33 / LAT: 32.090037 / LONG: -104.196254 (TVD: 9778 feet, MD: 16222 feet)
PPP: NENW / 1 FNL / 2310 FWL / TWSP: 26S / RANGE: 27E / SECTION: 4 / LAT: 32.079016 / LONG: -104.196384 (TVD: 9782 feet, MD: 21502 feet)
BHL: SESW / 200 FSL / 2310 FWL / TWSP: 26S / RANGE: 27E / SECTION: 4 / LAT: 32.064863 / LONG: -104.196553 (TVD: 9783 feet, MD: 25060 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- 54196	Pool Code 98220	Pool Name Purple Sage; Wolfcamp (Gas)
Property Code 333880	Property Name FLAMING SNAIL FEDERAL COM	Well Number 804H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3150.6'

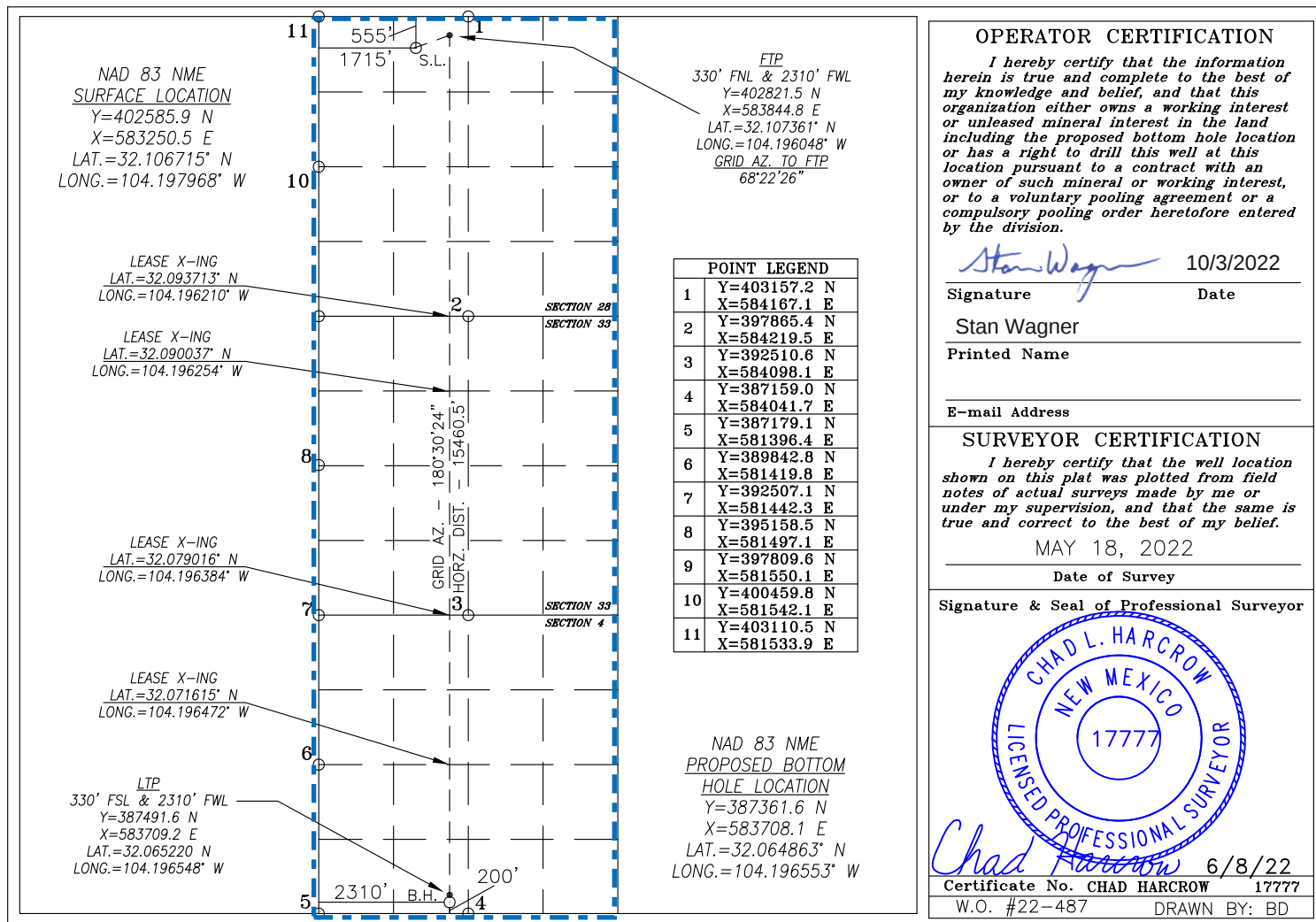
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	28	25-S	27-E		555	NORTH	1715	WEST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	4	26-S	27-E		200	SOUTH	2310	WEST	EDDY
Dedicated Acres 1920	Joint or Infill Infill	Consolidation Code Com	Order No.						

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



State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: COG Operating LLC

OGRID: 229137

Date: 10/03/2022

II. Type: ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Flaming Snail Fed Com 801H	30-015	A-28-25S-27E	505 FNL & 975 FEL	± 660	± 9600	± 2800
Flaming Snail Fed Com 802H	30-015-	A-28-25S-27E	505 FNL & 1005 FEL	± 660	± 9600	± 2800
Flaming Snail Fed Com 803H	30-015-	A-28-25S-27E	505 FNL & 1035 FEL	± 660	± 9600	± 2800
Flaming Snail Fed Com 804H	30-015-	C-28-25S-27E	555 FNL & 1715 FWL	± 660	± 9600	± 2800
Flaming Snail Fed Com 805H	30-015-	C-28-25S-27E	555 FNL & 1685 FWL	± 660	± 9600	± 2800
Flaming Snail Fed Com 806H	30-015-	C-28-25S-27E	555 FNL & 1655 FWL	± 660	± 9600	± 2800

IV. Central Delivery Point Name: Flaming Snail Fed Com East CTB NWNE 28-25S-27E [See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Flaming Snail Fed Com	Pending	± 4/01/23	± 25 days from spud	TBD	TBD	TBD
801H, 802H, 803H, 804H, 805H, 806H						

VI. Separation Equipment: ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan**EFFECTIVE APRIL 1, 2022**

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☒ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. ☐ Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system ☐ will ☐ will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator ☐ does ☐ does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

☐ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: ☐ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications**Effective May 25, 2021**

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

☒ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.

If Operator checks this box, Operator will select one of the following:

Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. ☐ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

Section 4 - Notices

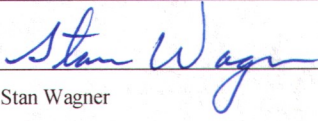
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature:	
Printed Name:	Stan Wagner
Title:	Regulatory Advisor
E-mail Address:	stan.s.wagner@conocophillips.com
Date:	10/03/2022
Phone:	432-253-9685

OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)

Approved By:
Title:
Approval Date:
Conditions of Approval:

VI. Separation Equipment

How Operator will size separation equipment to optimize gas capture:

All ConocoPhillips production facility equipment will be sized per industry standards (API 12J) with adequate retention time to effectively separate all phases of production. Each project will take into consideration the number of wells and type curves for each formation pool to ensure adequate facility capacity. Design considerations will also include review of all piping, tanks, VRU's and associated equipment to ensure optimized gas capture minimized risk of release.

VII. Operational Practices

Actions Operator will take to comply with the requirements below:

B. Drilling Operations

- During drilling, flare stacks will be located a minimum of 100 feet from the nearest surface hole location. All gas is captured or combusted. If an emergency or malfunction occurs, gas will be flared or vented for public health, safety, and the environment and be properly reported to the NMOCD pursuant to 19.15.27.8.G.
- Measure or estimate the volume of natural gas that is vented, flared or beneficially used during drilling, completion and production operations, regardless of the reason or authorization for such venting or flaring.

C. Completion Operations

- During completion operations, operator does not produce oil or gas but maintains adequate well control through completion operations.
- Individual well test separators will be set to properly separate gas and liquids. A temporary test separator will be utilized initially to process volumes. In addition, separators will be tied into flowback tanks which will be tied into the gas processing equipment for sales down a pipeline.

D. Venting and flaring during production operations

- During each phase of well life (drilling, completion and production) of a ConocoPhillips well, COP personnel will follow all necessary procedures to ensure both the operation and the equipment are within the NMAC 19.15.27.8 Subsection D guidelines.
- During well operations that require unloading of the well to atmospheric pressure, all reasonable actions will be taken to minimize vented gas
- Through the life of the well all flaring shall be measured, and venting events quantified using the data available and industry best practice.

E. Performance standards for separation, storage tank and flare equipment

- All storage tanks and separation equipment are designed minimize risk of liquid or vapor release and optimize gas capture. This includes automation for automatic gauging and pressure monitoring.

- All flare stacks are equipped with auto ignition devices and/or continuous pilots and are designed to operate at maximum combustion efficiency pursuant NMAC 19.15.27.8 Subsection E. Flares will follow COP spacing guidelines to ensure they are a safe distance from combustibles and operations equipment.
- COP personnel will conduct routine AVO inspections on a regular basis per NMAC 19.15.27.8 Subsection E guidelines.

F. Measurement of vented and flared natural gas.

- Measurement equipment will be installed to quantify gas flared during drilling, completion and production of the well.
- All measurement devices installed will meet accuracy ratings per AGA and API standards.
- Measurement devices will be installed without manifolds that allow diversion of gas around the metering element, except for the sole purpose of inspection of servicing the measurement device.

VIII. Best Management Practices

- Operator will curtail or shut in production, within reasonable limits, during upset conditions to minimize venting and flaring.
- When feasible, Operator will use equipment to capture gas that would otherwise be vented or flared.
- During completions and production operations Operator will minimize blowdowns to atmosphere
- When feasible, Operator will use electric or air actuated equipment to reduce bleed emissions

COG Operating, LLC - Flaming Snail Federal Com 804H

1. Geologic Formations

TVD of target	9,783' EOL	Pilot hole depth	NA
MD at TD:	25,359'	Deepest expected fresh water:	28'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	40	Water	
Top of Salt	543	Salt	
Base of Salt	1964	Salt	
Lamar	2139	Salt Water	
Bell Canyon	2207	Salt Water	
Cherry Canyon	2994	Oil/Gas	
Brushy Canyon	4085	Oil/Gas	
Bone Spring Lime	5698	Oil/Gas	
1st Bone Spring Sand	6631	Oil/Gas	
2nd Bone Spring Sand	7158	Oil/Gas	
3rd Bone Spring Sand	8471	Oil/Gas	
Wolfcamp	8802	Oil/Gas	
Wolfcamp C	9635	Target Oil/Gas	
0	0	Not Penetrated	

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Body	SF Joint
	From	To								
14.75"	0	540	10.75"	45.5	J55	BTC	8.46	1.77	29.10	32.40
9.875"	0	5500	7.625"	29.7	HCL80	BTC	2.42	1.28	4.18	4.41
8.750"	5500	9100	7.625"	29.7	HCP110	W513	1.57	1.76	3.48	2.06
6.75"	0	8600	5.5"	23	P110	TXP BTC	2.60	3.07	3.69	3.69
6.75"	8600	25,359	5.5"	23	P110	W441	2.29	2.70	3.24	2.94
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet

Intermediate casing will be kept at least 1/3 full while running casing to mitigate collapse. Surface burst based on 0.7 frac gradient at the shoe with Gas Gradient 0.1 psi/ft to surface and
All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

The 5 1/2" talon casing will be run back 200' into the intermediate casing to ensure the coupling OD clearance is greater than .422" for the cement bond tie in.

COG Operating, LLC - Flaming Snail Federal Com 804H

	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 804H

3. Cementing Program

Casing	# Sk	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	258	13.5	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl ₂
	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl ₂
Inter. Stage 1	600	10.3	3.3	22	24	Halliburton tunded light
	250	14.8	1.35	6.6	8	Tail: Class H
Prod	399	12.7	2	10.7	72	Lead: 50:50:10 H Blend
	1580	14.4	1.24	5.7	19	Tail: 50:50:2 Class H Blend

If losses are encountered in the intermediate section a DV/ECP tool will be run ~50' above the Lamar Lime top, cement will be adjusted accordingly if this contingency is necessary.

Volumes Subject to Observed Hole Conditions and/or Fluid Caliper Results

Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.

Casing String	TOC	% Excess
Surface	0'	50%
1 st Intermediate	0'	50%
Production	8,600'	35% OH in Lateral (KOP to EOL)

COG Operating, LLC - Flaming Snail Federal Com 804H

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 804H

5. Mud Program

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

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

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring
---	-----------------------------

6. Logging and Testing Procedures

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

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

COG Operating, LLC - Flaming Snail Federal Com 804H

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	6360 psi at 9783' TVD
Abnormal Temperature	NO 155 Deg. F.

No abnormal pressure or temperature conditions are anticipated. Sufficient mud materials to maintain mud properties and weight increase requirements will be kept on location at all times.

Sufficient supplies of Paper/LCM for periodic sweeps to control seepage and losses will be maintained on location.

Hydrogen Sulfide (H₂S) monitors will be installed prior to drilling out the surface shoe. If H₂S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

N H₂S is present

Y H₂S Plan attached

8. Other Facets of Operation

Y	Is it a walking operation?
Y	Is casing pre-set?

x	H ₂ S Plan.
x	BOP & Choke Schematics.
x	Directional Plan

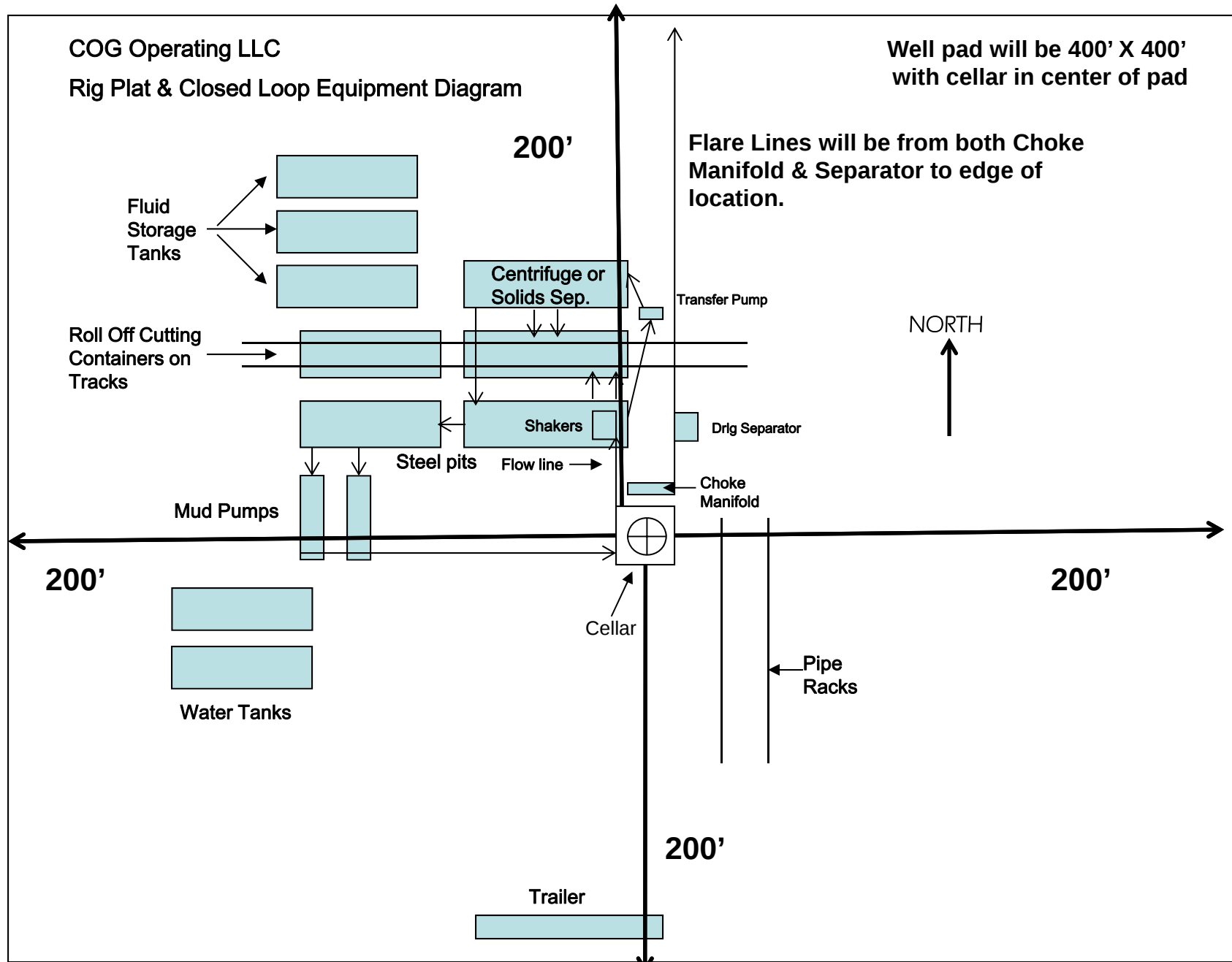


Exhibit 1

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

DELAWARE BASIN WEST

ATLAS PROSPECT (NM-E)

FLAMING SNAIL FED COM PROJECT

FLAMING SNAIL FEDERAL COM #804H

OWB

PWP1

Anticollision Report

24 September, 2022

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

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

Survey Tool Program	Date	9/23/2022		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	1,500.0	PWP1 (OWB)	r.5 SDI_KPR_WL_NS-CT	SDI Keeper Wireline Gyrocomp.-Initilzd Cont. rev.5
1,500.0	9,291.9	PWP1 (OWB)	r.5 MWD+IFR1	OWSG MWD + IFR1 rev.5
9,291.9	25,359.2	PWP1 (OWB)	r.5 MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction rev.5

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
FLAMING SNAIL FED COM PROJECT						
FLAMING SNAIL FEDERAL COM #501H - OWB - PWP0						Out of range
FLAMING SNAIL FEDERAL COM #502H - OWB - PWP0						Out of range
FLAMING SNAIL FEDERAL COM #503H - OWB - PWP0	6,382.4	6,420.7	64.1	39.8	2.641	CC
FLAMING SNAIL FEDERAL COM #503H - OWB - PWP0	6,460.0	6,497.5	65.3	39.3	2.516	ES
FLAMING SNAIL FEDERAL COM #503H - OWB - PWP0	7,035.3	7,076.1	77.3	43.2	2.267	SF
FLAMING SNAIL FEDERAL COM #504H - OWB - PWP0	1,500.0	1,505.6	306.7	298.5	37.191	CC, ES
FLAMING SNAIL FEDERAL COM #504H - OWB - PWP0	2,755.0	2,776.7	461.7	447.9	33.627	SF
FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0						Out of range
FLAMING SNAIL FEDERAL COM #521H - OWB - PWP0	1,500.0	1,505.4	301.9	293.6	36.527	CC, ES
FLAMING SNAIL FEDERAL COM #521H - OWB - PWP0	7,600.0	7,575.5	744.8	714.7	24.769	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	8,500.0	8,482.0	1,204.1	1,164.2	30.145	CC, ES
FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1	8,550.0	8,517.2	1,204.4	1,164.5	30.144	SF
FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1	8,458.9	8,497.4	741.0	695.3	16.183	CC
FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1	8,500.0	8,535.8	741.1	695.2	16.177	ES
FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1	25,359.2	24,335.7	1,062.0	817.6	4.344	SF
FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1	1,501.0	1,502.9	160.7	151.4	17.156	CC
FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1	1,520.0	1,522.0	160.7	151.3	17.070	ES
FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1	25,359.2	24,278.2	823.8	576.8	3.335	SF
FLAMING SNAIL FEDERAL COM #707H - OWB - PWP1	2,104.6	2,123.4	141.5	129.7	12.035	CC, ES
FLAMING SNAIL FEDERAL COM #707H - OWB - PWP1	25,359.2	24,197.5	867.0	621.5	3.531	SF
FLAMING SNAIL FEDERAL COM #708H - OWB - PWP1	1,879.0	1,898.0	146.1	135.1	13.242	CC
FLAMING SNAIL FEDERAL COM #708H - OWB - PWP1	1,900.0	1,919.5	146.1	135.0	13.165	ES
FLAMING SNAIL FEDERAL COM #708H - OWB - PWP1	25,359.2	24,170.4	1,136.7	894.6	4.695	SF
FLAMING SNAIL FEDERAL COM #709H - OWB - PWP1	1,502.7	1,506.8	153.4	143.9	16.259	CC
FLAMING SNAIL FEDERAL COM #709H - OWB - PWP1	1,520.0	1,524.4	153.4	143.9	16.183	ES
FLAMING SNAIL FEDERAL COM #709H - OWB - PWP1	1,800.0	1,806.8	162.6	152.2	15.549	SF
FLAMING SNAIL FEDERAL COM #710H - OWB - PWP1	1,435.9	1,440.3	162.3	153.1	17.592	CC
FLAMING SNAIL FEDERAL COM #710H - OWB - PWP1	1,500.0	1,504.4	162.3	152.9	17.317	ES
FLAMING SNAIL FEDERAL COM #710H - OWB - PWP1	1,700.0	1,702.9	169.3	159.2	16.879	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 #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 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 #801H - OWB - PWP1						Out of range
FLAMING SNAIL FEDERAL COM #802H - OWB - PWP1						Out of range
FLAMING SNAIL FEDERAL COM #803H - OWB - PWP1	9,291.9	9,309.4	873.3	827.7	19.154	CC
FLAMING SNAIL FEDERAL COM #803H - OWB - PWP1	25,359.2	25,416.2	882.6	640.4	3.644	ES, SF
FLAMING SNAIL FEDERAL COM #805H - OWB - PWP1	1,500.0	1,499.9	29.9	21.0	3.368	CC, ES
FLAMING SNAIL FEDERAL COM #805H - OWB - PWP1	1,520.0	1,519.8	30.0	21.1	3.358	SF
FLAMING SNAIL FEDERAL COM #806H - OWB - PWP1	1,437.5	1,437.6	59.9	51.1	6.830	CC
FLAMING SNAIL FEDERAL COM #806H - OWB - PWP1	1,500.0	1,500.0	59.9	51.0	6.747	ES
FLAMING SNAIL FEDERAL COM #806H - OWB - PWP1	1,520.0	1,519.7	60.0	51.1	6.712	SF
LEONARDO BKL FEDERAL COM #1 - OWB - AWP	11,524.8	9,729.2	987.0	677.6	3.190	CC, ES
LEONARDO BKL FEDERAL COM #1 - OWB - AWP	11,590.0	9,729.7	989.1	679.0	3.189	SF
WHITE CITY 21 25 27 FEDERAL COM #5H - OWB - AW	2,475.8	2,454.3	1,130.2	1,112.8	64.658	CC
WHITE CITY 21 25 27 FEDERAL COM #5H - OWB - AW	2,565.0	2,535.3	1,130.5	1,112.5	62.754	ES
WHITE CITY 21 25 27 FEDERAL COM #5H - OWB - AW	4,300.0	4,138.3	1,319.6	1,289.3	43.635	SF
WHITE CITY 21 25 27 FEDERAL COM #6H - OWB - AW	7,020.9	6,903.0	436.5	397.1	11.089	CC
WHITE CITY 21 25 27 FEDERAL COM #6H - OWB - AW	7,100.0	6,981.0	436.6	396.9	10.999	ES
WHITE CITY 21 25 27 FEDERAL COM #6H - OWB - AW	7,125.0	7,002.0	436.7	396.9	10.983	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 #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

TD Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
FLAMING SNAIL FED COM PROJECT						
FLAMING SNAIL FEDERAL COM #501H - OWB - PWP0	25,359.2	23,266.3				Out of Range @TD
FLAMING SNAIL FEDERAL COM #502H - OWB - PWP0	25,359.2	23,194.0				Out of Range @TD
FLAMING SNAIL FEDERAL COM #503H - OWB - PWP0	25,359.2	23,163.4				Out of Range @TD
FLAMING SNAIL FEDERAL COM #504H - OWB - PWP0	25,359.2	23,085.0				Out of Range @TD
FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0	25,359.2	23,585.3				Out of Range @TD
FLAMING SNAIL FEDERAL COM #521H - OWB - PWP0	25,359.2	23,473.7				Out of Range @TD
FLAMING SNAIL FEDERAL COM #701H - OWB - PWP1	25,359.2	24,344.4				Out of Range @TD
FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1	25,359.2	24,272.4				Out of Range @TD
FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1	25,359.2	24,263.3				Out of Range @TD
FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1	25,359.2	24,301.6				Out of Range @TD
FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1	25,359.2	24,335.7	1,062.0	817.6	4.344	SF
FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1	25,359.2	24,278.2	823.8	576.8	3.335	SF
FLAMING SNAIL FEDERAL COM #707H - OWB - PWP1	25,359.2	24,197.5	867.0	621.5	3.531	SF
FLAMING SNAIL FEDERAL COM #708H - OWB - PWP1	25,359.2	24,170.4	1,136.7	894.6	4.695	SF
FLAMING SNAIL FEDERAL COM #709H - OWB - PWP1	25,359.2	24,202.3				Out of Range @TD
FLAMING SNAIL FEDERAL COM #710H - OWB - PWP1	25,359.2	24,228.6				Out of Range @TD
FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1	25,359.2	25,453.6				Out of Range @TD
FLAMING SNAIL FEDERAL COM #802H - OWB - PWP1	25,359.2	25,370.1				Out of Range @TD
FLAMING SNAIL FEDERAL COM #803H - OWB - PWP1	25,359.2	25,416.2	882.6	640.4	3.644	ES, SF
FLAMING SNAIL FEDERAL COM #805H - OWB - PWP1	25,359.2	25,283.4	880.1	640.6	3.675	
FLAMING SNAIL FEDERAL COM #806H - OWB - PWP1	25,359.2	25,328.5				Out of Range @TD
LEONARDO BKL FEDERAL COM #1 - OWB - AWP	25,359.2	9,750.0				Out of Range @TD
WHITE CITY 21 25 27 FEDERAL COM #5H - OWB - AW	25,359.2	7,030.0				Out of Range @TD
WHITE CITY 21 25 27 FEDERAL COM #6H - OWB - AW	25,359.2	7,086.0				Out of Range @TD

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #503H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7106-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.0	0.0	4.7	4.7	3.0	3.0	179.81	-300.0	1.0	300.0					
95.0	95.0	99.7	99.7	3.0	3.0	179.81	-300.0	1.0	300.0	294.0	6.02	49.850		
100.0	100.0	104.7	104.7	3.0	3.0	179.81	-300.0	1.0	300.0	294.0	6.02	49.825		
190.0	190.0	194.7	194.7	3.1	3.0	179.81	-300.0	1.0	300.0	293.9	6.13	48.908		
200.0	200.0	204.7	204.7	3.1	3.0	179.81	-300.0	1.0	300.0	293.8	6.15	48.762		
285.0	285.0	289.7	289.7	3.3	3.0	179.81	-300.0	1.0	300.0	293.7	6.27	47.883		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #503H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program:		0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7106-r.5 MWD+IFR1+MS							Rule Assigned:				Offset Well Error: 3.0 usft	
Measured 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	
300.0	300.0	304.7	304.7	3.3	3.0	179.81	-300.0	1.0	300.0	293.7	6.29	47.708		
380.0	380.0	384.7	384.7	3.4	3.0	179.81	-300.0	1.0	300.0	293.6	6.40	46.884		
400.0	400.0	404.7	404.7	3.4	3.0	179.81	-300.0	1.0	300.0	293.6	6.43	46.664		
475.0	475.0	479.7	479.7	3.5	3.0	179.81	-300.0	1.0	300.0	293.5	6.54	45.897		
500.0	500.0	504.7	504.7	3.5	3.1	179.81	-300.0	1.0	300.0	293.4	6.57	45.631		
570.0	570.0	574.7	574.7	3.6	3.1	179.81	-300.0	1.0	300.0	293.3	6.68	44.923		
600.0	600.0	604.7	604.7	3.6	3.1	179.81	-300.0	1.0	300.0	293.3	6.72	44.612		
665.0	665.0	669.7	669.7	3.7	3.1	179.81	-300.0	1.0	300.0	293.2	6.82	43.963		
700.0	700.0	704.7	704.7	3.8	3.1	179.81	-300.0	1.0	300.0	293.1	6.88	43.607		
760.0	760.0	764.7	764.7	3.8	3.1	179.81	-300.0	1.0	300.0	293.0	6.97	43.017		
800.0	800.0	804.7	804.7	3.9	3.2	179.81	-300.0	1.0	300.0	293.0	7.04	42.619		
855.0	855.0	859.7	859.7	4.0	3.2	179.81	-300.0	1.0	300.0	292.9	7.13	42.087		
900.0	900.0	904.7	904.7	4.0	3.2	179.81	-300.0	1.0	300.0	292.8	7.20	41.649		
950.0	950.0	954.7	954.7	4.1	3.2	179.81	-300.0	1.0	300.0	292.7	7.29	41.175		
1,000.0	1,000.0	1,004.7	1,004.7	4.1	3.2	179.81	-300.0	1.0	300.0	292.6	7.37	40.699		
1,045.0	1,045.0	1,049.7	1,049.7	4.2	3.3	179.81	-300.0	1.0	300.0	292.6	7.45	40.280		
1,100.0	1,100.0	1,104.7	1,104.7	4.2	3.3	179.81	-300.0	1.0	300.0	292.5	7.54	39.769		
1,140.0	1,140.0	1,144.7	1,144.7	4.3	3.3	179.81	-300.0	1.0	300.0	292.4	7.61	39.405		
1,200.0	1,200.0	1,204.7	1,204.7	4.4	3.4	179.81	-300.0	1.0	300.0	292.3	7.72	38.861		
1,235.0	1,235.0	1,239.7	1,239.7	4.4	3.4	179.81	-300.0	1.0	300.0	292.2	7.78	38.550		
1,300.0	1,300.0	1,304.7	1,304.7	4.5	3.4	179.81	-300.0	1.0	300.0	292.1	7.90	37.975		
1,330.0	1,330.0	1,334.7	1,334.7	4.5	3.4	179.81	-300.0	1.0	300.0	292.0	7.95	37.716		
1,400.0	1,400.0	1,404.7	1,404.7	4.6	3.5	179.81	-300.0	1.0	300.0	291.9	8.08	37.113		
1,425.0	1,425.0	1,429.7	1,429.7	4.6	3.5	179.81	-300.0	1.0	300.0	291.9	8.13	36.902		
1,500.0	1,500.0	1,504.7	1,504.7	4.7	3.6	179.81	-300.0	1.0	300.0	291.7	8.27	36.274		
1,520.0	1,520.0	1,524.7	1,524.7	4.7	3.6	130.64	-300.0	1.0	300.0	291.7	8.31	36.095		
1,600.0	1,600.0	1,604.7	1,604.7	4.9	3.6	130.87	-300.0	1.0	301.1	292.7	8.48	35.494		
1,615.0	1,615.0	1,619.7	1,619.7	4.9	3.6	130.94	-300.0	1.0	301.5	293.0	8.53	35.366		
1,700.0	1,699.8	1,704.5	1,704.5	5.1	3.7	131.56	-300.0	1.0	304.6	295.8	8.76	34.759		
1,710.0	1,709.8	1,714.5	1,714.5	5.1	3.7	131.65	-300.0	1.0	305.1	296.3	8.79	34.700		
1,800.0	1,799.5	1,804.2	1,804.2	5.4	3.8	132.68	-300.0	1.0	310.5	301.4	9.06	34.280		
1,805.0	1,804.4	1,809.1	1,809.1	5.4	3.8	132.74	-300.0	1.0	310.8	301.7	9.07	34.262		
1,900.0	1,898.7	1,903.4	1,903.4	5.7	3.9	134.16	-300.0	1.0	318.9	309.5	9.37	34.033		
1,995.0	1,992.5	1,997.2	1,997.2	6.0	3.9	135.85	-300.0	1.0	329.4	319.7	9.69	33.995		
2,000.0	1,997.5	2,002.4	2,002.4	6.0	3.9	135.94	-300.0	1.0	330.0	320.3	9.71	33.989		
2,090.0	2,085.8	2,100.7	2,100.7	6.3	4.1	137.81	-298.6	2.1	341.2	331.0	10.17	33.558		
2,100.0	2,095.6	2,111.6	2,111.6	6.3	4.2	138.01	-298.3	2.4	342.4	332.2	10.22	33.488		
2,185.0	2,178.5	2,205.1	2,204.9	6.6	4.4	139.71	-294.4	5.7	352.8	342.1	10.74	32.840		
2,200.2	2,193.2	2,221.9	2,221.6	6.7	4.5	140.00	-293.4	6.5	354.6	343.8	10.84	32.723		
2,280.0	2,270.7	2,310.4	2,309.8	6.9	4.7	141.54	-287.1	11.7	363.3	352.0	11.32	32.100		
2,300.0	2,290.1	2,332.7	2,331.9	7.0	4.8	141.88	-285.2	13.3	365.2	353.8	11.44	31.918		
2,375.0	2,362.9	2,416.7	2,415.2	7.2	5.1	143.02	-276.8	20.4	371.1	359.2	11.92	31.135		
2,400.0	2,387.1	2,444.8	2,443.0	7.3	5.2	143.35	-273.5	23.1	372.7	360.6	12.08	30.845		
2,470.0	2,455.0	2,523.8	2,520.8	7.5	5.5	144.18	-263.3	31.6	375.9	363.3	12.55	29.947		
2,500.0	2,484.1	2,557.7	2,554.2	7.7	5.6	144.48	-258.4	35.6	376.8	364.0	12.76	29.535		
2,565.0	2,547.2	2,631.3	2,626.2	7.9	5.9	145.04	-246.8	45.3	377.6	364.4	13.21	28.578		
2,600.0	2,581.2	2,671.0	2,664.9	8.0	6.0	145.29	-239.9	51.1	377.5	364.0	13.46	28.038		
2,660.0	2,639.4	2,737.4	2,729.3	8.2	6.2	145.64	-227.5	61.4	376.2	362.4	13.85	27.172		
2,700.0	2,678.2	2,777.3	2,768.0	8.4	6.4	145.82	-219.8	67.8	375.1	361.0	14.10	26.604		
2,755.0	2,731.6	2,832.3	2,821.2	8.6	6.5	146.08	-209.2	76.6	373.6	359.1	14.47	25.814		
2,800.0	2,775.2	2,877.3	2,864.7	8.8	6.7	146.30	-200.6	83.8	372.4	357.6	14.79	25.176		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #503H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7106-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Offset	Reference	Offset	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor	
2,850.0	2,823.7	2,927.2	2,913.1	9.0	6.9	146.53	-191.0	91.8	371.0	355.9	15.15	24.485	
2,900.0	2,872.3	2,977.2	2,961.4	9.2	7.1	146.78	-181.4	99.8	369.7	354.1	15.52	23.818	
2,945.0	2,915.9	3,022.1	3,005.0	9.3	7.2	146.99	-172.7	107.0	368.5	352.6	15.86	23.235	
3,000.0	2,969.3	3,077.1	3,058.2	9.6	7.4	147.26	-162.1	115.8	367.0	350.7	16.28	22.547	
3,040.0	3,008.1	3,117.1	3,096.8	9.7	7.6	147.46	-154.4	122.2	365.9	349.3	16.59	22.061	
3,100.0	3,066.3	3,177.0	3,154.9	10.0	7.8	147.76	-142.9	131.8	364.3	347.3	17.06	21.359	
3,135.0	3,100.3	3,212.0	3,188.7	10.1	8.0	147.93	-136.2	137.4	363.4	346.1	17.34	20.962	
3,200.0	3,163.3	3,276.9	3,251.6	10.4	8.2	148.26	-123.7	147.8	361.7	343.8	17.86	20.251	
3,230.0	3,192.4	3,306.9	3,280.6	10.5	8.4	148.41	-117.9	152.6	360.9	342.8	18.11	19.934	
3,300.0	3,260.4	3,376.8	3,348.4	10.8	8.7	148.76	-104.4	163.9	359.1	340.4	18.68	19.220	
3,325.0	3,284.6	3,401.8	3,372.5	10.9	8.8	148.89	-99.6	167.9	358.5	339.6	18.89	18.973	
3,400.0	3,357.4	3,476.8	3,445.1	11.2	9.1	149.28	-85.2	179.9	356.5	337.0	19.53	18.259	
3,420.0	3,376.8	3,496.7	3,464.4	11.3	9.2	149.38	-81.4	183.1	356.0	336.3	19.70	18.076	
3,500.0	3,454.4	3,576.7	3,541.8	11.7	9.5	149.80	-66.0	195.9	354.0	333.6	20.38	17.366	
3,515.0	3,469.0	3,591.7	3,556.3	11.7	9.6	149.88	-63.1	198.3	353.6	333.1	20.51	17.237	
3,600.0	3,551.4	3,676.6	3,638.5	12.1	9.9	150.33	-46.8	211.9	351.5	330.2	21.26	16.533	
3,610.0	3,561.1	3,686.6	3,648.2	12.2	10.0	150.39	-44.8	213.5	351.2	329.9	21.35	16.453	
3,700.0	3,648.5	3,776.5	3,735.3	12.6	10.4	150.87	-27.5	227.9	349.0	326.8	22.15	15.758	
3,705.0	3,653.3	3,781.5	3,740.1	12.6	10.4	150.90	-26.6	228.7	348.9	326.7	22.19	15.720	
3,800.0	3,745.5	3,876.4	3,832.0	13.0	10.8	151.42	-8.3	243.9	346.5	323.5	23.05	15.035	
3,895.0	3,837.7	3,971.3	3,923.9	13.4	11.3	151.94	10.0	259.1	344.2	320.3	23.92	14.392	
3,900.0	3,842.5	3,976.3	3,928.7	13.5	11.3	151.97	10.9	259.9	344.1	320.2	23.96	14.360	
3,990.0	3,929.9	4,066.2	4,015.8	13.9	11.7	152.48	28.2	274.3	342.0	317.2	24.80	13.791	
4,000.0	3,939.6	4,076.2	4,025.5	13.9	11.7	152.53	30.2	275.9	341.7	316.8	24.89	13.729	
4,085.0	4,022.0	4,161.2	4,107.7	14.3	12.1	153.02	46.5	289.5	339.7	314.0	25.69	13.226	
4,100.0	4,036.6	4,176.2	4,122.2	14.4	12.2	153.10	49.4	291.9	339.4	313.6	25.83	13.140	
4,180.0	4,114.2	4,256.1	4,199.6	14.7	12.6	153.56	64.8	304.8	337.5	310.9	26.59	12.696	
4,200.0	4,133.6	4,276.1	4,218.9	14.8	12.6	153.68	68.6	308.0	337.1	310.3	26.78	12.588	
4,275.0	4,206.4	4,351.0	4,291.5	15.2	13.0	154.12	83.0	320.0	335.3	307.9	27.49	12.197	
4,300.0	4,230.6	4,376.0	4,315.7	15.3	13.1	154.26	87.8	324.0	334.8	307.0	27.73	12.071	
4,370.0	4,298.6	4,445.9	4,383.4	15.6	13.4	154.68	101.3	335.2	333.2	304.8	28.41	11.728	
4,400.0	4,327.7	4,475.9	4,412.4	15.7	13.6	154.86	107.1	340.0	332.5	303.8	28.70	11.586	
4,465.0	4,390.7	4,540.8	4,475.3	16.0	13.9	155.25	119.6	350.4	331.1	301.8	29.33	11.287	
4,500.0	4,424.7	4,575.8	4,509.1	16.2	14.0	155.46	126.3	356.0	330.3	300.6	29.68	11.131	
4,560.0	4,482.9	4,635.8	4,567.2	16.5	14.3	155.82	137.8	365.6	329.0	298.7	30.26	10.871	
4,600.0	4,521.7	4,675.7	4,605.9	16.7	14.5	156.07	145.5	372.0	328.1	297.5	30.66	10.703	
4,655.0	4,575.1	4,730.7	4,659.1	16.9	14.8	156.41	156.1	380.8	327.0	295.8	31.20	10.478	
4,700.0	4,618.8	4,775.6	4,702.6	17.1	15.0	156.68	164.8	388.0	326.0	294.4	31.65	10.300	
4,750.0	4,667.3	4,825.6	4,751.0	17.4	15.2	157.00	174.4	396.0	324.9	292.8	32.14	10.111	
4,755.7	4,672.8	4,831.3	4,756.4	17.4	15.2	157.03	175.5	396.9	324.8	292.6	32.19	10.090	
4,800.0	4,715.9	4,875.6	4,799.3	17.6	15.4	157.28	184.0	404.0	323.6	291.0	32.62	9.920	
4,845.0	4,759.8	4,920.5	4,842.8	17.8	15.7	157.48	192.6	411.2	321.7	288.6	33.07	9.728	
4,900.0	4,813.6	4,975.4	4,896.0	18.1	15.9	157.65	203.2	420.0	318.5	284.9	33.61	9.477	
4,940.0	4,852.9	5,015.3	4,934.6	18.3	16.1	157.73	210.9	426.4	315.5	281.5	33.99	9.284	
5,000.0	4,912.1	5,075.0	4,992.4	18.5	16.4	157.77	222.4	436.0	310.2	275.6	34.55	8.977	
5,035.0	4,946.7	5,109.8	5,026.1	18.7	16.6	157.75	229.1	441.6	306.5	271.6	34.86	8.791	
5,100.0	5,011.1	5,174.4	5,088.6	19.0	16.9	157.62	241.5	451.9	298.6	263.2	35.44	8.427	
5,130.0	5,040.9	5,204.1	5,117.4	19.1	17.0	157.52	247.2	456.7	294.5	258.8	35.69	8.253	
5,200.0	5,110.5	5,273.3	5,184.3	19.4	17.3	157.17	260.5	467.8	283.9	247.6	36.26	7.829	
5,225.0	5,135.4	5,297.9	5,208.2	19.5	17.5	157.01	265.3	471.7	279.7	243.3	36.45	7.674	
5,300.0	5,210.2	5,371.6	5,279.5	19.8	17.8	156.36	279.4	483.5	266.0	229.0	37.00	7.190	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #503H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program:		0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7106-r.5 MWD+IFR1+MS						Rule Assigned:				Offset Well Error:	3.0 usft	
Measured	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		
5,320.0	5,230.2	5,391.2	5,298.5	19.9	17.9	156.14	283.2	486.7	262.1	224.9	37.13	7.058		
5,400.0	5,310.2	5,469.2	5,374.1	20.1	18.3	155.07	298.2	499.2	245.1	207.5	37.61	6.516		
5,415.0	5,325.1	5,483.8	5,388.2	20.1	18.3	154.83	301.0	501.5	241.7	204.0	37.67	6.416		
5,455.9	5,366.0	5,523.4	5,426.6	20.2	18.5	-156.74	308.7	507.9	232.1	194.3	37.81	6.137		
5,500.0	5,410.1	5,566.2	5,467.9	20.2	18.7	-157.55	316.9	514.7	221.5	183.6	37.90	5.843		
5,510.0	5,420.1	5,575.9	5,477.3	20.2	18.8	-157.75	318.7	516.3	219.1	181.1	37.92	5.777		
5,600.0	5,510.1	5,663.0	5,561.7	20.3	19.2	-159.71	335.5	530.2	197.6	159.6	38.04	5.195		
5,605.0	5,515.1	5,667.8	5,566.4	20.3	19.2	-159.83	336.4	531.0	196.4	158.4	38.04	5.163		
5,700.0	5,610.1	5,759.8	5,655.4	20.3	19.7	-162.45	354.1	545.7	174.1	136.1	38.03	4.579		
5,795.0	5,705.1	5,851.8	5,744.4	20.3	20.1	-165.82	371.8	560.5	152.3	114.5	37.79	4.029		
5,800.0	5,710.1	5,856.6	5,749.1	20.3	20.1	-166.02	372.8	561.2	151.1	113.4	37.77	4.001		
5,890.0	5,800.1	5,943.8	5,833.5	20.4	20.6	-170.28	389.5	575.2	131.1	93.9	37.18	3.525		
5,900.0	5,810.1	5,953.4	5,842.9	20.4	20.6	-170.83	391.4	576.8	128.9	91.8	37.09	3.475		
5,985.0	5,895.1	6,035.7	5,922.5	20.4	21.0	-176.38	407.2	589.9	110.9	74.9	35.97	3.084		
6,000.0	5,910.1	6,050.3	5,936.6	20.4	21.1	-177.55	410.0	592.3	107.9	72.2	35.70	3.022		
6,080.0	5,990.1	6,127.7	6,011.6	20.5	21.4	175.03	424.9	604.7	92.5	58.8	33.73	2.743		
6,100.0	6,010.1	6,147.1	6,030.3	20.5	21.5	172.79	428.7	607.8	89.0	55.9	33.08	2.690		
6,175.0	6,085.1	6,219.3	6,100.3	20.5	21.9	162.90	442.5	619.3	77.2	47.2	30.02	2.572		
6,200.0	6,110.1	6,243.2	6,123.5	20.5	22.0	159.18	446.9	622.9	74.1	45.2	28.87	2.565		
6,270.0	6,180.1	6,310.8	6,189.4	20.6	22.3	148.00	458.4	632.5	67.6	41.7	25.87	2.613		
6,300.0	6,210.1	6,340.0	6,217.9	20.6	22.5	143.03	463.0	636.4	65.9	41.0	24.93	2.643		
6,365.0	6,275.1	6,403.6	6,280.4	20.6	22.8	132.47	472.3	644.1	64.1	40.0	24.16	2.655		
6,382.4	6,292.5	6,420.7	6,297.2	20.6	22.9	129.79	474.6	646.0	64.1	39.8	24.26	2.641 CC		
6,400.0	6,310.1	6,438.1	6,314.3	20.6	23.0	127.14	476.9	647.9	64.1	39.7	24.49	2.619		
6,460.0	6,370.1	6,497.5	6,373.0	20.6	23.2	118.94	484.0	653.9	65.3	39.3	25.94	2.516 ES		
6,500.0	6,410.1	6,537.3	6,412.5	20.7	23.4	114.23	488.3	657.5	66.6	39.4	27.20	2.447		
6,555.0	6,465.1	6,592.3	6,467.0	20.7	23.6	108.77	493.5	661.8	68.7	39.8	28.95	2.373		
6,600.0	6,510.1	6,637.5	6,511.9	20.7	23.8	105.13	497.2	664.9	70.6	40.3	30.24	2.334		
6,650.0	6,560.1	6,687.8	6,562.1	20.7	24.0	101.90	500.7	667.7	72.5	41.1	31.45	2.306		
6,700.0	6,610.1	6,738.3	6,612.5	20.8	24.2	99.42	503.4	670.1	74.3	41.9	32.42	2.292		
6,745.0	6,655.1	6,783.9	6,658.0	20.8	24.4	97.78	505.4	671.7	75.6	42.5	33.08	2.285		
6,800.0	6,710.1	6,839.6	6,713.7	20.8	24.6	96.46	507.0	673.0	76.7	43.1	33.62	2.281		
6,840.0	6,750.1	6,880.2	6,754.3	20.8	24.7	95.94	507.6	673.5	77.1	43.3	33.85	2.279		
6,900.0	6,810.1	6,940.8	6,814.8	20.9	24.8	95.78	507.8	673.7	77.3	43.3	33.95	2.277		
6,935.0	6,845.1	6,975.8	6,849.8	20.9	24.8	95.78	507.8	673.7	77.3	43.3	33.98	2.274		
7,000.0	6,910.1	7,040.8	6,914.8	20.9	24.8	95.78	507.8	673.7	77.3	43.2	34.05	2.270		
7,030.0	6,940.1	7,070.8	6,944.8	20.9	24.8	95.78	507.8	673.7	77.3	43.2	34.08	2.268		
7,035.3	6,945.4	7,076.1	6,950.1	20.9	24.8	95.78	507.8	673.7	77.3	43.2	34.09	2.267 SF		
7,100.0	7,010.1	7,140.3	7,014.4	20.9	24.9	96.54	506.8	673.7	77.4	43.5	33.92	2.282		
7,125.0	7,035.1	7,164.9	7,038.8	21.0	24.9	98.00	504.8	673.7	77.6	44.2	33.46	2.320		
7,200.0	7,110.1	7,236.8	7,109.7	21.0	24.9	106.44	492.9	673.6	80.2	49.4	30.84	2.601		
7,220.0	7,130.1	7,255.4	7,127.8	21.0	24.9	109.49	488.4	673.5	81.7	51.8	29.95	2.728		
7,300.0	7,210.1	7,326.4	7,195.0	21.0	25.0	122.97	466.0	673.3	93.4	66.5	26.84	3.478		
7,315.0	7,225.1	7,339.0	7,206.7	21.1	25.0	125.47	461.1	673.3	96.7	70.3	26.46	3.657		
7,400.0	7,310.1	7,405.9	7,266.5	21.1	25.0	137.95	431.1	673.0	123.7	98.1	25.57	4.837		
7,410.0	7,320.1	7,413.3	7,272.8	21.1	25.0	139.18	427.4	673.0	127.7	102.1	25.57	4.994		
7,500.0	7,410.1	7,474.6	7,323.7	21.1	25.1	148.17	393.3	672.7	170.4	144.6	25.80	6.602		
7,505.0	7,415.1	7,477.7	7,326.2	21.1	25.1	148.57	391.4	672.7	173.1	147.2	25.82	6.702		
7,600.0	7,510.1	7,532.8	7,368.4	21.2	25.1	154.64	356.1	672.4	229.3	203.3	26.06	8.799		
7,695.0	7,605.1	7,579.5	7,401.5	21.2	25.2	158.64	323.0	672.1	293.5	267.4	26.17	11.216		
7,700.0	7,610.1	7,581.8	7,403.0	21.2	25.2	158.81	321.4	672.1	297.1	270.9	26.18	11.350		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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		Rule Assigned:		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
7,790.0	7,700.1	7,619.3	7,427.4	21.3	25.2	161.38	292.9	671.8	363.6	337.4	26.23	13.863	
7,800.0	7,710.1	7,623.1	7,429.8	21.3	25.2	161.62	289.9	671.8	371.3	345.0	26.24	14.151	
7,885.0	7,795.1	7,650.0	7,445.9	21.3	25.2	163.16	268.4	671.6	438.2	411.9	26.25	16.693	
7,900.0	7,810.1	7,650.0	7,445.9	21.3	25.2	163.16	268.4	671.6	450.4	424.2	26.19	17.195	
7,980.0	7,890.1	7,682.2	7,463.9	21.4	25.2	164.77	241.7	671.4	516.0	489.6	26.40	19.545	
8,000.0	7,910.1	7,687.8	7,466.9	21.4	25.2	165.02	237.0	671.4	532.8	506.4	26.43	20.160	
8,075.0	7,985.1	7,700.0	7,473.2	21.4	25.3	165.55	226.5	671.3	596.7	570.2	26.48	22.536	
8,100.0	8,010.1	7,713.3	7,479.8	21.4	25.3	166.10	215.0	671.2	618.2	591.6	26.59	23.249	
8,170.0	8,080.1	7,729.0	7,487.3	21.5	25.3	166.71	201.2	671.0	679.2	652.5	26.73	25.415	
8,200.0	8,110.1	7,735.3	7,490.2	21.5	25.3	166.94	195.7	671.0	705.7	678.9	26.79	26.344	
8,265.0	8,175.1	7,750.0	7,496.8	21.5	25.3	167.46	182.4	670.9	763.6	736.7	26.95	28.335	
8,300.0	8,210.1	7,750.0	7,496.8	21.5	25.3	167.46	182.4	670.9	795.1	768.1	27.00	29.451	
8,360.0	8,270.1	7,750.0	7,496.8	21.6	25.3	167.46	182.4	670.9	849.7	822.6	27.11	31.346	
8,400.0	8,310.1	7,771.1	7,505.5	21.6	25.3	168.15	163.2	670.7	885.8	858.5	27.28	32.472	
8,455.0	8,365.1	7,779.5	7,508.8	21.6	25.3	168.41	155.6	670.6	936.2	908.8	27.43	34.132	
8,500.0	8,410.1	7,800.0	7,516.4	21.6	25.3	169.00	136.5	670.5	978.0	950.4	27.61	35.420	
8,550.0	8,460.1	7,800.0	7,516.4	21.7	25.3	169.00	136.5	670.5	1,024.1	996.4	27.73	36.938	
8,600.0	8,510.1	7,800.0	7,516.4	21.7	25.3	169.00	136.5	670.5	1,070.6	1,042.7	27.85	38.442	
8,645.0	8,555.1	7,800.0	7,516.4	21.7	25.3	169.00	136.5	670.5	1,112.7	1,084.7	27.97	39.783	
8,700.0	8,610.1	7,800.0	7,516.4	21.7	25.3	169.00	136.5	670.5	1,164.4	1,136.3	28.12	41.407	
8,740.0	8,650.1	7,800.0	7,516.4	21.8	25.3	169.00	136.5	670.5	1,202.2	1,174.0	28.24	42.576	
8,800.0	8,710.1	7,821.1	7,523.4	21.8	25.3	169.56	116.6	670.3	1,258.6	1,230.2	28.46	44.226	
8,835.0	8,745.1	7,824.5	7,524.5	21.8	25.3	169.65	113.3	670.3	1,291.8	1,263.2	28.57	45.216	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	Reference	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
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)				
0.0	0.0	5.6	5.6	3.0	3.0	-168.91	-301.0	-59.0	306.7					
95.0	95.0	100.6	100.6	3.0	3.0	-168.91	-301.0	-59.0	306.7	300.7	6.02	50.968		
100.0	100.0	105.6	105.6	3.0	3.0	-168.91	-301.0	-59.0	306.7	300.7	6.02	50.942		
190.0	190.0	195.6	195.6	3.1	3.0	-168.91	-301.0	-59.0	306.7	300.6	6.13	50.006		
200.0	200.0	205.6	205.6	3.1	3.0	-168.91	-301.0	-59.0	306.7	300.6	6.15	49.857		
285.0	285.0	290.6	290.6	3.3	3.0	-168.91	-301.0	-59.0	306.7	300.5	6.26	48.961		
300.0	300.0	305.6	305.6	3.3	3.0	-168.91	-301.0	-59.0	306.7	300.4	6.29	48.783		
380.0	380.0	385.6	385.6	3.4	3.0	-168.91	-301.0	-59.0	306.7	300.3	6.40	47.945		
400.0	400.0	405.6	405.6	3.4	3.0	-168.91	-301.0	-59.0	306.7	300.3	6.43	47.721		
475.0	475.0	480.6	480.6	3.5	3.0	-168.91	-301.0	-59.0	306.7	300.2	6.53	46.942		
500.0	500.0	505.6	505.6	3.5	3.1	-168.91	-301.0	-59.0	306.7	300.2	6.57	46.672		
570.0	570.0	575.6	575.6	3.6	3.1	-168.91	-301.0	-59.0	306.7	300.1	6.67	45.954		
600.0	600.0	605.6	605.6	3.6	3.1	-168.91	-301.0	-59.0	306.7	300.0	6.72	45.637		
665.0	665.0	670.6	670.6	3.7	3.1	-168.91	-301.0	-59.0	306.7	299.9	6.82	44.979		
700.0	700.0	705.6	705.6	3.8	3.1	-168.91	-301.0	-59.0	306.7	299.9	6.87	44.618		
760.0	760.0	765.6	765.6	3.8	3.1	-168.91	-301.0	-59.0	306.7	299.8	6.97	44.020		
800.0	800.0	805.6	805.6	3.9	3.2	-168.91	-301.0	-59.0	306.7	299.7	7.03	43.617		
855.0	855.0	860.6	860.6	4.0	3.2	-168.91	-301.0	-59.0	306.7	299.6	7.12	43.078		
900.0	900.0	905.6	905.6	4.0	3.2	-168.91	-301.0	-59.0	306.7	299.5	7.19	42.634		
950.0	950.0	955.6	955.6	4.1	3.2	-168.91	-301.0	-59.0	306.7	299.5	7.28	42.154		
1,000.0	1,000.0	1,005.6	1,005.6	4.1	3.2	-168.91	-301.0	-59.0	306.7	299.4	7.36	41.672		
1,045.0	1,045.0	1,050.6	1,050.6	4.2	3.3	-168.91	-301.0	-59.0	306.7	299.3	7.44	41.248		
1,100.0	1,100.0	1,105.6	1,105.6	4.2	3.3	-168.91	-301.0	-59.0	306.7	299.2	7.53	40.730		
1,140.0	1,140.0	1,145.6	1,145.6	4.3	3.3	-168.91	-301.0	-59.0	306.7	299.1	7.60	40.362		
1,200.0	1,200.0	1,205.6	1,205.6	4.4	3.4	-168.91	-301.0	-59.0	306.7	299.0	7.70	39.811		
1,235.0	1,235.0	1,240.6	1,240.6	4.4	3.4	-168.91	-301.0	-59.0	306.7	299.0	7.77	39.496		
1,300.0	1,300.0	1,305.6	1,305.6	4.5	3.4	-168.91	-301.0	-59.0	306.7	298.8	7.88	38.914		
1,330.0	1,330.0	1,335.6	1,335.6	4.5	3.4	-168.91	-301.0	-59.0	306.7	298.8	7.94	38.651		
1,400.0	1,400.0	1,405.6	1,405.6	4.6	3.5	-168.91	-301.0	-59.0	306.7	298.7	8.06	38.041		
1,425.0	1,425.0	1,430.6	1,430.6	4.6	3.5	-168.91	-301.0	-59.0	306.7	298.6	8.11	37.827		
1,500.0	1,500.0	1,505.6	1,505.6	4.7	3.6	-168.91	-301.0	-59.0	306.7	298.5	8.25	37.191 CC, ES		
1,520.0	1,520.0	1,525.6	1,525.6	4.7	3.6	141.92	-301.0	-59.0	306.8	298.5	8.29	37.006		
1,600.0	1,600.0	1,605.6	1,605.6	4.9	3.6	142.10	-301.0	-59.0	308.1	299.6	8.48	36.338		
1,615.0	1,615.0	1,620.6	1,620.6	4.9	3.6	142.16	-301.0	-59.0	308.5	300.0	8.52	36.205		
1,700.0	1,699.8	1,705.4	1,705.4	5.1	3.7	142.64	-301.0	-59.0	312.3	303.5	8.78	35.583		
1,710.0	1,709.8	1,715.4	1,715.4	5.1	3.7	142.71	-301.0	-59.0	312.8	304.0	8.81	35.525		
1,800.0	1,799.5	1,805.1	1,805.1	5.4	3.8	143.50	-301.0	-59.0	319.2	310.1	9.09	35.134		
1,805.0	1,804.4	1,810.0	1,810.0	5.4	3.8	143.55	-301.0	-59.0	319.7	310.5	9.10	35.119		
1,900.0	1,898.7	1,904.3	1,904.3	5.7	3.9	144.65	-301.0	-59.0	329.1	319.7	9.42	34.955		
1,995.0	1,992.5	1,998.1	1,998.1	6.0	3.9	145.94	-301.0	-59.0	341.3	331.6	9.75	35.008		
2,000.0	1,997.5	2,003.3	2,003.3	6.0	3.9	146.02	-301.0	-59.0	342.0	332.3	9.77	35.003		
2,090.0	2,085.8	2,098.7	2,098.7	6.3	4.1	147.73	-299.6	-60.0	355.4	345.2	10.20	34.853		
2,100.0	2,095.6	2,109.3	2,109.3	6.3	4.2	147.95	-299.3	-60.2	356.9	346.7	10.25	34.824		
2,185.0	2,178.5	2,198.7	2,198.5	6.6	4.4	150.06	-295.4	-63.1	370.7	359.9	10.72	34.565		
2,200.2	2,193.2	2,214.5	2,214.3	6.7	4.5	150.48	-294.5	-63.8	373.2	362.4	10.81	34.532		
2,280.0	2,270.7	2,297.7	2,297.2	6.9	4.7	152.89	-288.5	-68.1	386.6	375.3	11.22	34.454		
2,300.0	2,290.1	2,318.5	2,317.9	7.0	4.8	153.51	-286.7	-69.5	389.8	378.5	11.32	34.428		
2,375.0	2,362.9	2,396.2	2,395.0	7.2	5.0	155.91	-278.9	-75.2	401.7	390.0	11.72	34.288		
2,400.0	2,387.1	2,422.0	2,420.5	7.3	5.1	156.74	-276.0	-77.4	405.6	393.8	11.85	34.238		
2,470.0	2,455.0	2,493.9	2,491.5	7.5	5.4	159.09	-266.8	-84.1	416.5	404.2	12.22	34.076		
2,500.0	2,484.1	2,524.6	2,521.7	7.7	5.5	160.13	-262.4	-87.3	421.1	408.7	12.38	34.010		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #504H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7065-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation		Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
2,565.0	2,547.2	2,590.6	2,586.5	7.9	5.7	162.41	-252.1	-94.9	431.1	418.3	12.73	33.862	
2,600.0	2,581.2	2,626.0	2,621.0	8.0	5.9	163.66	-246.1	-99.3	436.5	423.6	12.92	33.793	
2,660.0	2,639.4	2,686.1	2,679.6	8.2	6.1	165.84	-235.1	-107.4	445.9	432.7	13.24	33.685	
2,700.0	2,678.2	2,724.7	2,717.0	8.4	6.2	167.26	-227.6	-112.9	452.4	438.9	13.44	33.646	
2,755.0	2,731.6	2,776.7	2,767.5	8.6	6.4	169.11	-217.4	-120.3	461.7	447.9	13.73	33.627 SF	
2,800.0	2,775.2	2,819.3	2,808.8	8.8	6.6	170.58	-209.1	-126.4	469.6	455.7	13.96	33.640	
2,850.0	2,823.7	2,866.6	2,854.7	9.0	6.7	172.15	-199.9	-133.2	478.9	464.6	14.22	33.672	
2,900.0	2,872.3	2,913.9	2,900.6	9.2	6.9	173.67	-190.7	-140.0	488.4	474.0	14.48	33.728	
2,945.0	2,915.9	2,956.4	2,941.9	9.3	7.0	174.99	-182.4	-146.0	497.4	482.6	14.72	33.792	
3,000.0	2,969.3	3,008.5	2,992.4	9.6	7.2	176.55	-172.2	-153.5	508.6	493.6	15.01	33.892	
3,040.0	3,008.1	3,046.3	3,029.1	9.7	7.4	177.63	-164.8	-158.9	517.0	501.8	15.22	33.973	
3,100.0	3,066.3	3,103.1	3,084.2	10.0	7.6	179.21	-153.8	-167.0	530.0	514.5	15.54	34.111	
3,135.0	3,100.3	3,136.2	3,116.3	10.1	7.7	-179.91	-147.3	-171.8	537.7	522.0	15.72	34.197	
3,200.0	3,163.3	3,197.7	3,176.0	10.4	8.0	-178.33	-135.3	-180.6	552.5	536.4	16.07	34.371	
3,230.0	3,192.4	3,226.1	3,203.5	10.5	8.1	-177.63	-129.8	-184.6	559.4	543.2	16.24	34.454	
3,300.0	3,260.4	3,292.3	3,267.8	10.8	8.3	-176.06	-116.9	-194.1	575.9	559.2	16.62	34.657	
3,325.0	3,284.6	3,316.0	3,290.7	10.9	8.4	-175.51	-112.3	-197.5	581.9	565.1	16.75	34.731	
3,400.0	3,357.4	3,386.9	3,359.6	11.2	8.7	-173.95	-98.4	-207.7	600.1	582.9	17.17	34.959	
3,420.0	3,376.8	3,405.8	3,377.9	11.3	8.8	-173.55	-94.7	-210.4	605.0	587.8	17.28	35.020	
3,500.0	3,454.4	3,481.5	3,451.4	11.7	9.1	-172.01	-80.0	-221.2	625.1	607.4	17.72	35.270	
3,515.0	3,469.0	3,495.7	3,465.1	11.7	9.2	-171.73	-77.2	-223.2	628.9	611.1	17.81	35.316	
3,600.0	3,551.4	3,576.1	3,543.2	12.1	9.5	-170.20	-61.5	-234.7	650.7	632.4	18.29	35.582	
3,610.0	3,561.1	3,585.6	3,552.4	12.2	9.6	-170.03	-59.7	-236.1	653.3	635.0	18.34	35.613	
3,700.0	3,648.5	3,670.8	3,635.0	12.6	9.9	-168.54	-43.1	-248.3	676.9	658.1	18.86	35.892	
3,705.0	3,653.3	3,675.5	3,639.6	12.6	10.0	-168.46	-42.1	-249.0	678.2	659.4	18.89	35.907	
3,800.0	3,745.5	3,765.4	3,726.8	13.0	10.3	-166.99	-24.6	-261.8	703.7	684.2	19.44	36.195	
3,895.0	3,837.7	3,855.2	3,814.0	13.4	10.7	-165.62	-7.1	-274.7	729.5	709.5	20.00	36.475	
3,900.0	3,842.5	3,860.0	3,818.6	13.5	10.8	-165.55	-6.1	-275.4	730.8	710.8	20.03	36.490	
3,990.0	3,929.9	3,945.1	3,901.2	13.9	11.1	-164.34	10.5	-287.6	755.6	735.1	20.56	36.747	
4,000.0	3,939.6	3,954.6	3,910.4	13.9	11.2	-164.22	12.3	-288.9	758.4	737.8	20.62	36.775	
4,085.0	4,022.0	4,035.0	3,988.4	14.3	11.5	-163.15	28.0	-300.4	782.2	761.0	21.13	37.009	
4,100.0	4,036.6	4,049.2	4,002.2	14.4	11.6	-162.97	30.8	-302.4	786.4	765.2	21.23	37.050	
4,180.0	4,114.2	4,124.9	4,075.6	14.7	12.0	-162.04	45.5	-313.3	809.0	787.3	21.71	37.261	
4,200.0	4,133.6	4,143.8	4,094.0	14.8	12.0	-161.81	49.2	-316.0	814.7	792.8	21.83	37.313	
4,275.0	4,206.4	4,214.8	4,162.8	15.2	12.4	-160.99	63.1	-326.1	836.1	813.8	22.29	37.503	
4,300.0	4,230.6	4,238.4	4,185.8	15.3	12.5	-160.72	67.7	-329.5	843.3	820.8	22.45	37.565	
4,370.0	4,298.6	4,304.6	4,250.0	15.6	12.8	-160.01	80.6	-339.0	863.4	840.5	22.88	37.734	
4,400.0	4,327.7	4,333.0	4,277.6	15.7	12.9	-159.71	86.1	-343.1	872.1	849.0	23.07	37.805	
4,465.0	4,390.7	4,394.5	4,337.2	16.0	13.2	-159.08	98.1	-351.9	891.0	867.5	23.47	37.955	
4,500.0	4,424.7	4,427.6	4,369.4	16.2	13.3	-158.76	104.6	-356.6	901.2	877.5	23.69	38.035	
4,560.0	4,482.9	4,484.4	4,424.5	16.5	13.6	-158.22	115.6	-364.7	918.7	894.7	24.07	38.167	
4,600.0	4,521.7	4,522.2	4,461.2	16.7	13.8	-157.87	123.0	-370.2	930.5	906.2	24.32	38.253	
4,655.0	4,575.1	4,574.3	4,511.7	16.9	14.0	-157.40	133.2	-377.6	946.7	922.0	24.67	38.369	
4,700.0	4,618.8	4,616.9	4,553.0	17.1	14.2	-157.03	141.5	-383.7	960.0	935.0	24.96	38.462	
4,750.0	4,667.3	4,664.2	4,598.9	17.4	14.4	-156.63	150.7	-390.5	974.8	949.5	25.27	38.579	
4,755.7	4,672.8	4,669.5	4,604.1	17.4	14.5	-156.58	151.8	-391.2	976.5	951.2	25.30	38.592	
4,800.0	4,715.9	4,711.5	4,644.8	17.6	14.7	-156.34	160.0	-397.2	989.4	963.8	25.58	38.685	
4,845.0	4,759.8	4,754.3	4,686.4	17.8	14.8	-156.08	168.3	-403.4	1,001.9	976.0	25.87	38.728	
4,900.0	4,813.6	4,806.8	4,737.3	18.1	15.1	-155.74	178.5	-410.9	1,016.4	990.1	26.23	38.748	
4,940.0	4,852.9	4,845.1	4,774.4	18.3	15.3	-155.49	186.0	-416.4	1,026.3	999.9	26.49	38.748	
5,000.0	4,912.1	4,902.7	4,830.3	18.5	15.5	-155.09	197.2	-424.6	1,040.5	1,013.6	26.87	38.716	

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 #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #504H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program: Reference		0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7065-r.5 MWD+IFR1+MS								Rule Assigned:		Offset Well Error: 3.0 usft		
Offset		Semi Major Axis		Offset Wellbore Centre		Distance								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,035.0	4,946.7	4,936.3	4,863.0	18.7	15.7	-154.85	203.8	-429.4	1,048.2	1,021.1	27.09	38.689		
5,100.0	5,011.1	4,999.0	4,923.7	19.0	16.0	-154.37	216.0	-438.4	1,061.7	1,034.2	27.50	38.603		
5,130.0	5,040.9	5,028.0	4,951.9	19.1	16.1	-154.15	221.7	-442.5	1,067.6	1,039.9	27.69	38.558		
5,200.0	5,110.5	5,095.7	5,017.6	19.4	16.5	-153.59	234.9	-452.2	1,080.2	1,052.1	28.11	38.420		
5,225.0	5,135.4	5,119.9	5,041.0	19.5	16.6	-153.39	239.6	-455.7	1,084.4	1,056.1	28.26	38.369		
5,300.0	5,210.2	5,192.6	5,111.6	19.8	16.9	-152.74	253.8	-466.1	1,095.9	1,067.2	28.70	38.183		
5,320.0	5,230.2	5,212.0	5,130.4	19.9	17.0	-152.56	257.6	-468.9	1,098.7	1,069.9	28.81	38.137		
5,400.0	5,310.2	5,289.6	5,205.7	20.1	17.4	-151.82	272.7	-480.0	1,108.8	1,079.6	29.24	37.916		
5,415.0	5,325.1	5,304.2	5,219.9	20.1	17.4	-151.67	275.5	-482.1	1,110.5	1,081.2	29.30	37.901		
5,455.9	5,366.0	5,343.8	5,258.3	20.2	17.6	-102.09	283.3	-487.7	1,114.9	1,085.5	29.46	37.849		
5,500.0	5,410.1	5,386.6	5,299.9	20.2	17.8	-101.60	291.6	-493.9	1,119.4	1,089.9	29.58	37.841		
5,510.0	5,420.1	5,396.3	5,309.3	20.2	17.9	-101.49	293.5	-495.3	1,120.5	1,090.9	29.61	37.836		
5,600.0	5,510.1	5,483.7	5,394.0	20.3	18.3	-100.52	310.6	-507.8	1,130.0	1,100.1	29.90	37.789		
5,605.0	5,515.1	5,488.5	5,398.7	20.3	18.3	-100.46	311.5	-508.5	1,130.5	1,100.6	29.92	37.787		
5,700.0	5,610.1	5,580.7	5,488.2	20.3	18.8	-99.45	329.5	-521.6	1,141.0	1,110.7	30.24	37.737		
5,795.0	5,705.1	5,672.9	5,577.6	20.3	19.2	-98.45	347.5	-534.8	1,151.8	1,121.2	30.56	37.687		
5,800.0	5,710.1	5,677.7	5,582.3	20.3	19.2	-98.40	348.4	-535.5	1,152.4	1,121.8	30.58	37.684		
5,890.0	5,800.1	5,765.1	5,667.1	20.4	19.6	-97.47	365.4	-548.0	1,162.9	1,132.0	30.90	37.637		
5,900.0	5,810.1	5,774.8	5,676.5	20.4	19.7	-97.37	367.3	-549.4	1,164.1	1,133.2	30.93	37.632		
5,985.0	5,895.1	5,857.2	5,756.5	20.4	20.1	-96.51	383.4	-561.2	1,174.4	1,143.2	31.25	37.587		
6,000.0	5,910.1	5,871.8	5,770.6	20.4	20.1	-96.36	386.3	-563.3	1,176.3	1,145.0	31.30	37.579		
6,080.0	5,990.1	5,949.4	5,845.9	20.5	20.5	-95.57	401.4	-574.4	1,186.3	1,154.7	31.59	37.550		
6,100.0	6,010.1	5,969.6	5,865.6	20.5	20.6	-95.37	405.3	-577.3	1,188.8	1,157.1	31.67	37.540		
6,175.0	6,085.1	6,063.4	5,957.0	20.5	21.0	-94.49	422.3	-589.8	1,197.7	1,165.7	32.06	37.358		
6,200.0	6,110.1	6,095.0	5,987.9	20.5	21.2	-94.23	427.5	-593.6	1,200.5	1,168.3	32.20	37.286		
6,270.0	6,180.1	6,184.1	6,075.5	20.6	21.6	-93.57	440.6	-603.2	1,207.4	1,174.8	32.56	37.084		
6,300.0	6,210.1	6,222.6	6,113.5	20.6	21.8	-93.33	445.6	-606.9	1,210.0	1,177.3	32.71	36.995		
6,365.0	6,275.1	6,306.6	6,196.6	20.6	22.2	-92.86	455.1	-613.8	1,215.0	1,182.0	33.02	36.795		
6,400.0	6,310.1	6,352.0	6,241.7	20.6	22.4	-92.65	459.4	-617.0	1,217.3	1,184.1	33.18	36.690		
6,460.0	6,370.1	6,430.3	6,319.7	20.6	22.7	-92.36	465.4	-621.4	1,220.5	1,187.1	33.43	36.504		
6,500.0	6,410.1	6,482.7	6,371.9	20.7	22.9	-92.21	468.5	-623.7	1,222.2	1,188.6	33.59	36.381		
6,555.0	6,465.1	6,555.0	6,444.1	20.7	23.2	-92.07	471.5	-625.9	1,223.7	1,190.0	33.79	36.219		
6,600.0	6,510.1	6,614.2	6,503.3	20.7	23.3	-92.00	472.8	-626.8	1,224.5	1,190.5	33.92	36.099		
6,650.0	6,560.1	6,676.7	6,565.7	20.7	23.4	-91.98	473.2	-627.1	1,224.7	1,190.7	34.00	36.024		
6,700.0	6,610.1	6,726.7	6,615.7	20.8	23.4	-91.98	473.2	-627.1	1,224.7	1,190.6	34.04	35.974		
6,745.0	6,655.1	6,771.7	6,660.7	20.8	23.5	-91.98	473.2	-627.1	1,224.7	1,190.6	34.09	35.923		
6,800.0	6,710.1	6,826.7	6,715.7	20.8	23.5	-91.98	473.2	-627.1	1,224.7	1,190.5	34.15	35.860		
6,840.0	6,750.1	6,866.7	6,755.7	20.8	23.5	-91.98	473.2	-627.1	1,224.7	1,190.5	34.20	35.814		
6,900.0	6,810.1	6,926.7	6,815.7	20.9	23.5	-91.98	473.2	-627.1	1,224.7	1,190.4	34.26	35.745		
6,935.0	6,845.1	6,961.7	6,850.7	20.9	23.5	-91.98	473.2	-627.1	1,224.7	1,190.4	34.30	35.705		
7,000.0	6,910.1	7,026.7	6,915.7	20.9	23.6	-91.98	473.2	-627.1	1,224.7	1,190.3	34.36	35.638		
7,030.0	6,940.1	7,056.7	6,945.7	20.9	23.6	-91.98	473.2	-627.1	1,224.7	1,190.3	34.39	35.612		
7,100.0	7,010.1	7,109.8	6,998.9	20.9	23.6	-92.06	471.5	-627.4	1,225.1	1,190.6	34.43	35.577		
7,125.0	7,035.1	7,127.9	7,016.8	21.0	23.6	-92.14	469.8	-627.6	1,225.5	1,191.1	34.45	35.578		
7,200.0	7,110.1	7,181.2	7,069.5	21.0	23.6	-92.52	461.6	-628.8	1,227.6	1,193.2	34.46	35.626		
7,220.0	7,130.1	7,200.0	7,087.8	21.0	23.6	-92.71	457.5	-629.3	1,228.4	1,194.0	34.45	35.654		
7,300.0	7,210.1	7,250.0	7,135.9	21.0	23.7	-93.34	443.9	-631.3	1,232.8	1,198.3	34.43	35.801		
7,315.0	7,225.1	7,258.8	7,144.2	21.1	23.7	-93.47	441.1	-631.7	1,233.8	1,199.3	34.43	35.838		
7,400.0	7,310.1	7,312.0	7,193.5	21.1	23.7	-94.38	421.3	-634.5	1,240.9	1,206.5	34.36	36.114		
7,410.0	7,320.1	7,318.0	7,198.9	21.1	23.7	-94.49	418.8	-634.8	1,241.9	1,207.6	34.35	36.154		
7,500.0	7,410.1	7,369.2	7,244.2	21.1	23.7	-95.57	395.1	-638.2	1,252.6	1,218.4	34.24	36.581		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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:		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	
7,505.0	7,415.1	7,371.9	7,246.5	21.1	23.7	-95.63	393.8	-638.4	1,253.3	1,219.1	34.24	36.609	
7,600.0	7,510.1	7,420.3	7,287.1	21.2	23.8	-96.82	367.5	-642.1	1,268.5	1,234.4	34.08	37.216	
7,695.0	7,605.1	7,463.6	7,321.3	21.2	23.8	-97.98	341.3	-645.8	1,287.7	1,253.8	33.90	37.984	
7,700.0	7,610.1	7,465.8	7,323.0	21.2	23.8	-98.04	340.0	-646.0	1,288.8	1,254.9	33.89	38.029	
7,790.0	7,700.1	7,500.0	7,348.5	21.3	23.8	-99.04	317.4	-649.2	1,311.2	1,277.5	33.69	38.918	
7,800.0	7,710.1	7,500.0	7,348.5	21.3	23.8	-99.04	317.4	-649.2	1,314.0	1,280.3	33.67	39.024	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #521H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7437-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:											
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.0	0.0	5.4	5.4	3.0	3.0	-174.49	-300.5	-29.0	301.9					
95.0	95.0	100.4	100.4	3.0	3.0	-174.49	-300.5	-29.0	301.9	295.9	6.02	50.165		
100.0	100.0	105.4	105.4	3.0	3.0	-174.49	-300.5	-29.0	301.9	295.9	6.02	50.139		
190.0	190.0	195.4	195.4	3.1	3.0	-174.49	-300.5	-29.0	301.9	295.8	6.13	49.216		
200.0	200.0	205.4	205.4	3.1	3.0	-174.49	-300.5	-29.0	301.9	295.7	6.15	49.070		
285.0	285.0	290.4	290.4	3.3	3.0	-174.49	-300.5	-29.0	301.9	295.6	6.27	48.186		
300.0	300.0	305.4	305.4	3.3	3.0	-174.49	-300.5	-29.0	301.9	295.6	6.29	48.010		
380.0	380.0	385.4	385.4	3.4	3.0	-174.49	-300.5	-29.0	301.9	295.5	6.40	47.182		
400.0	400.0	405.4	405.4	3.4	3.0	-174.49	-300.5	-29.0	301.9	295.5	6.43	46.960		
475.0	475.0	480.4	480.4	3.5	3.0	-174.49	-300.5	-29.0	301.9	295.4	6.54	46.190		
500.0	500.0	505.4	505.4	3.5	3.1	-174.49	-300.5	-29.0	301.9	295.3	6.57	45.923		
570.0	570.0	575.4	575.4	3.6	3.1	-174.49	-300.5	-29.0	301.9	295.2	6.68	45.212		
600.0	600.0	605.4	605.4	3.6	3.1	-174.49	-300.5	-29.0	301.9	295.2	6.72	44.898		
665.0	665.0	670.4	670.4	3.7	3.1	-174.49	-300.5	-29.0	301.9	295.1	6.82	44.247		
700.0	700.0	705.4	705.4	3.8	3.1	-174.49	-300.5	-29.0	301.9	295.0	6.88	43.889		
760.0	760.0	765.4	765.4	3.8	3.1	-174.49	-300.5	-29.0	301.9	294.9	6.97	43.297		
800.0	800.0	805.4	805.4	3.9	3.2	-174.49	-300.5	-29.0	301.9	294.9	7.04	42.897		
855.0	855.0	860.4	860.4	4.0	3.2	-174.49	-300.5	-29.0	301.9	294.8	7.13	42.363		
900.0	900.0	905.4	905.4	4.0	3.2	-174.49	-300.5	-29.0	301.9	294.7	7.20	41.923		
950.0	950.0	955.4	955.4	4.1	3.2	-174.49	-300.5	-29.0	301.9	294.6	7.28	41.447		
1,000.0	1,000.0	1,005.4	1,005.4	4.1	3.2	-174.49	-300.5	-29.0	301.9	294.5	7.37	40.969		
1,045.0	1,045.0	1,050.4	1,050.4	4.2	3.3	-174.49	-300.5	-29.0	301.9	294.5	7.45	40.549		
1,100.0	1,100.0	1,105.4	1,105.4	4.2	3.3	-174.49	-300.5	-29.0	301.9	294.4	7.54	40.036		
1,140.0	1,140.0	1,145.4	1,145.4	4.3	3.3	-174.49	-300.5	-29.0	301.9	294.3	7.61	39.671		
1,200.0	1,200.0	1,205.4	1,205.4	4.4	3.4	-174.49	-300.5	-29.0	301.9	294.2	7.72	39.124		
1,235.0	1,235.0	1,240.4	1,240.4	4.4	3.4	-174.49	-300.5	-29.0	301.9	294.1	7.78	38.812		
1,300.0	1,300.0	1,305.4	1,305.4	4.5	3.4	-174.49	-300.5	-29.0	301.9	294.0	7.90	38.235		
1,330.0	1,330.0	1,335.4	1,335.4	4.5	3.4	-174.49	-300.5	-29.0	301.9	293.9	7.95	37.974		
1,400.0	1,400.0	1,405.4	1,405.4	4.6	3.5	-174.49	-300.5	-29.0	301.9	293.8	8.08	37.369		
1,425.0	1,425.0	1,430.4	1,430.4	4.6	3.5	-174.49	-300.5	-29.0	301.9	293.8	8.12	37.157		
1,500.0	1,500.0	1,505.4	1,505.4	4.7	3.6	-174.49	-300.5	-29.0	301.9	293.6	8.27	36.527 CC, ES		
1,520.0	1,520.0	1,525.4	1,525.4	4.7	3.6	136.35	-300.5	-29.0	301.9	293.6	8.31	36.346		
1,600.0	1,600.0	1,605.4	1,605.4	4.9	3.6	136.55	-300.5	-29.0	303.2	294.7	8.49	35.715		
1,615.0	1,615.0	1,620.4	1,620.4	4.9	3.6	136.62	-300.5	-29.0	303.6	295.0	8.53	35.586		
1,700.0	1,699.8	1,705.2	1,705.2	5.1	3.7	137.17	-300.5	-29.0	307.0	298.2	8.78	34.979		
1,710.0	1,709.8	1,715.2	1,715.2	5.1	3.7	137.25	-300.5	-29.0	307.5	298.7	8.81	34.921		
1,800.0	1,799.5	1,804.9	1,804.9	5.4	3.8	138.16	-300.5	-29.0	313.4	304.4	9.08	34.525		
1,805.0	1,804.4	1,809.8	1,809.8	5.4	3.8	138.22	-300.5	-29.0	313.8	304.7	9.09	34.509		
1,900.0	1,898.7	1,904.1	1,904.1	5.7	3.9	139.48	-300.5	-29.0	322.6	313.2	9.40	34.323		
1,995.0	1,992.5	1,997.9	1,997.9	6.0	3.9	140.98	-300.5	-29.0	334.1	324.3	9.73	34.341		
2,000.0	1,997.5	2,003.2	2,003.2	6.0	3.9	141.07	-300.5	-29.0	334.7	325.0	9.75	34.330		
2,090.0	2,085.8	2,102.9	2,102.9	6.3	4.2	142.99	-298.7	-29.3	346.7	336.4	10.24	33.856		
2,100.0	2,095.6	2,114.0	2,113.9	6.3	4.2	143.23	-298.3	-29.3	348.0	337.7	10.30	33.778		
2,185.0	2,178.5	2,208.0	2,207.8	6.6	4.5	145.42	-293.0	-30.1	359.1	348.2	10.84	33.115		
2,200.2	2,193.2	2,224.8	2,224.6	6.7	4.6	145.84	-291.8	-30.3	361.1	350.1	10.94	32.999		
2,280.0	2,270.7	2,313.1	2,312.5	6.9	4.9	148.23	-283.6	-31.5	370.6	359.2	11.43	32.423		
2,300.0	2,290.1	2,335.3	2,334.5	7.0	4.9	148.83	-281.1	-31.9	372.8	361.2	11.56	32.259		
2,375.0	2,362.9	2,418.4	2,416.9	7.2	5.2	151.14	-270.3	-33.5	379.9	367.9	12.03	31.567		
2,400.0	2,387.1	2,446.1	2,444.3	7.3	5.3	151.93	-266.2	-34.1	382.0	369.8	12.20	31.318		
2,470.0	2,455.0	2,523.5	2,520.6	7.5	5.6	154.19	-253.3	-36.0	387.0	374.3	12.63	30.642		
2,500.0	2,484.1	2,555.9	2,552.4	7.7	5.6	155.17	-247.3	-36.9	388.8	376.0	12.78	30.415		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #521H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program:		0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7437-r.5 MWD+IFR1+MS						Rule Assigned:					Offset Well Error: 3.0 usft	
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation		Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Separation Factor			
2,565.0	2,547.2	2,619.4	2,614.8	7.9	5.8	157.06	-235.3	-38.7	392.9	379.7	13.14	29.893		
2,600.0	2,581.2	2,653.6	2,648.4	8.0	5.9	158.07	-228.9	-39.7	395.2	381.9	13.36	29.592		
2,660.0	2,639.4	2,712.3	2,705.9	8.2	6.1	159.77	-217.8	-41.3	399.6	385.9	13.73	29.104		
2,700.0	2,678.2	2,751.3	2,744.3	8.4	6.2	160.88	-210.4	-42.4	402.7	388.7	13.98	28.805		
2,755.0	2,731.6	2,805.1	2,797.0	8.6	6.4	162.38	-200.3	-43.9	407.2	392.9	14.33	28.421		
2,800.0	2,775.2	2,849.1	2,840.2	8.8	6.5	163.58	-192.0	-45.2	411.1	396.5	14.61	28.134		
2,850.0	2,823.7	2,897.9	2,888.2	9.0	6.7	164.89	-182.8	-46.6	415.7	400.8	14.93	27.839		
2,900.0	2,872.3	2,946.8	2,936.1	9.2	6.9	166.18	-173.5	-47.9	420.5	405.2	15.25	27.572		
2,945.0	2,915.9	2,990.8	2,979.3	9.3	7.0	167.31	-165.3	-49.2	425.0	409.4	15.54	27.352		
3,000.0	2,969.3	3,044.5	3,032.0	9.6	7.2	168.66	-155.1	-50.7	430.7	414.8	15.89	27.111		
3,040.0	3,008.1	3,083.6	3,070.4	9.7	7.4	169.62	-147.7	-51.8	435.0	418.8	16.14	26.951		
3,100.0	3,066.3	3,142.2	3,128.0	10.0	7.6	171.02	-136.7	-53.4	441.6	425.1	16.52	26.740		
3,135.0	3,100.3	3,176.4	3,161.5	10.1	7.7	171.82	-130.2	-54.4	445.7	428.9	16.74	26.628		
3,200.0	3,163.3	3,239.9	3,223.9	10.4	8.0	173.27	-118.2	-56.2	453.4	436.2	17.14	26.449		
3,230.0	3,192.4	3,269.2	3,252.6	10.5	8.1	173.93	-112.7	-57.0	457.0	439.7	17.33	26.375		
3,300.0	3,260.4	3,337.6	3,319.8	10.8	8.4	175.41	-99.8	-58.9	465.7	448.0	17.76	26.229		
3,325.0	3,284.6	3,362.1	3,343.8	10.9	8.5	175.93	-95.2	-59.6	468.9	451.0	17.91	26.184		
3,400.0	3,357.4	3,435.4	3,415.7	11.2	8.7	177.44	-81.3	-61.7	478.7	460.4	18.36	26.071		
3,420.0	3,376.8	3,454.9	3,434.9	11.3	8.8	177.83	-77.6	-62.2	481.4	462.9	18.48	26.046		
3,500.0	3,454.4	3,533.1	3,511.6	11.7	9.1	179.36	-62.9	-64.4	492.3	473.4	18.96	25.967		
3,515.0	3,469.0	3,547.7	3,526.0	11.7	9.2	179.64	-60.1	-64.9	494.4	475.4	19.05	25.955		
3,600.0	3,551.4	3,630.8	3,607.6	12.1	9.5	-178.82	-44.4	-67.2	506.4	486.9	19.55	25.908		
3,610.0	3,561.1	3,640.6	3,617.1	12.2	9.6	-178.65	-42.6	-67.5	507.9	488.3	19.61	25.904		
3,700.0	3,648.5	3,728.5	3,703.5	12.6	10.0	-177.10	-26.0	-69.9	521.0	500.9	20.13	25.889		
3,705.0	3,653.3	3,733.4	3,708.3	12.6	10.0	-177.02	-25.1	-70.1	521.8	501.6	20.15	25.889		
3,800.0	3,745.5	3,826.2	3,799.4	13.0	10.4	-175.47	-7.6	-72.7	536.1	515.4	20.69	25.904		
3,895.0	3,837.7	3,919.0	3,890.5	13.4	10.8	-174.01	10.0	-75.3	550.7	529.5	21.23	25.944		
3,900.0	3,842.5	3,923.9	3,895.3	13.5	10.8	-173.93	10.9	-75.4	551.5	530.3	21.26	25.947		
3,990.0	3,929.9	4,011.9	3,981.6	13.9	11.2	-172.62	27.5	-77.9	565.7	544.0	21.75	26.006		
4,000.0	3,939.6	4,021.6	3,991.2	13.9	11.2	-172.48	29.3	-78.2	567.3	545.5	21.81	26.014		
4,085.0	4,022.0	4,104.7	4,072.8	14.3	11.6	-171.30	45.0	-80.5	581.1	558.8	22.27	26.087		
4,100.0	4,036.6	4,119.4	4,087.1	14.4	11.6	-171.10	47.8	-80.9	583.5	561.1	22.36	26.101		
4,180.0	4,114.2	4,197.5	4,163.9	14.7	12.0	-170.05	62.5	-83.1	596.7	573.9	22.79	26.183		
4,200.0	4,133.6	4,217.1	4,183.1	14.8	12.0	-169.79	66.2	-83.7	600.0	577.1	22.90	26.206		
4,275.0	4,206.4	4,290.4	4,255.0	15.2	12.4	-168.86	80.0	-85.8	612.5	589.2	23.30	26.293		
4,300.0	4,230.6	4,314.8	4,279.0	15.3	12.5	-168.56	84.7	-86.4	616.8	593.3	23.43	26.324		
4,370.0	4,298.6	4,383.2	4,346.1	15.6	12.8	-167.73	97.6	-88.4	628.7	604.9	23.80	26.413		
4,400.0	4,327.7	4,412.5	4,374.9	15.7	12.9	-167.39	103.1	-89.2	633.8	609.9	23.96	26.453		
4,465.0	4,390.7	4,476.0	4,437.3	16.0	13.2	-166.66	115.1	-91.0	645.0	620.7	24.30	26.542		
4,500.0	4,424.7	4,510.2	4,470.8	16.2	13.3	-166.28	121.5	-91.9	651.1	626.6	24.49	26.592		
4,560.0	4,482.9	4,568.9	4,528.4	16.5	13.6	-165.64	132.6	-93.6	661.6	636.8	24.80	26.679		
4,600.0	4,521.7	4,607.9	4,566.7	16.7	13.8	-165.23	140.0	-94.7	668.6	643.6	25.01	26.738		
4,655.0	4,575.1	4,661.7	4,619.5	16.9	14.0	-164.67	150.1	-96.2	678.4	653.1	25.29	26.821		
4,700.0	4,618.8	4,705.7	4,662.7	17.1	14.2	-164.23	158.4	-97.4	686.4	660.8	25.53	26.890		
4,750.0	4,667.3	4,754.5	4,710.6	17.4	14.4	-163.74	167.7	-98.8	695.3	669.5	25.77	26.978		
4,755.7	4,672.8	4,760.0	4,716.0	17.4	14.4	-163.69	168.7	-99.0	696.3	670.5	25.80	26.988		
4,800.0	4,715.9	4,803.4	4,758.6	17.6	14.6	-163.31	176.9	-100.2	704.0	677.9	26.02	27.059		
4,845.0	4,759.8	4,847.5	4,801.9	17.8	14.8	-162.92	185.2	-101.4	711.1	684.9	26.25	27.091		
4,900.0	4,813.6	4,901.5	4,854.9	18.1	15.1	-162.42	195.4	-103.0	719.0	692.5	26.53	27.103		
4,940.0	4,852.9	4,940.9	4,893.6	18.3	15.2	-162.05	202.8	-104.1	724.1	697.4	26.72	27.099		
5,000.0	4,912.1	5,000.0	4,951.6	18.5	15.5	-161.47	214.0	-105.7	730.9	703.9	27.00	27.066		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #521H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7437-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Offset	Reference	Offset	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation	Warning
Measured	Vertical	Measured	Vertical	Reference	Offset	Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor	
Depth	Depth	Depth	Depth	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
5,035.0	4,946.7	5,034.5	4,985.4	18.7	15.6	-161.12	220.5	-106.7	734.4	707.2	27.16	27.039	
5,100.0	5,011.1	5,098.6	5,048.4	19.0	15.9	-160.45	232.6	-108.5	739.8	712.4	27.44	26.961	
5,130.0	5,040.9	5,128.2	5,077.4	19.1	16.1	-160.12	238.2	-109.3	741.9	714.3	27.56	26.920	
5,200.0	5,110.5	5,197.3	5,145.2	19.4	16.4	-159.34	251.2	-111.3	745.7	717.9	27.83	26.797	
5,225.0	5,135.4	5,221.9	5,169.4	19.5	16.5	-159.05	255.9	-112.0	746.7	718.8	27.91	26.752	
5,300.0	5,210.2	5,295.9	5,242.1	19.8	16.8	-158.14	269.8	-114.1	748.7	720.5	28.16	26.589	
5,320.0	5,230.2	5,315.6	5,261.4	19.9	16.9	-157.88	273.6	-114.6	748.9	720.7	28.21	26.548	
5,400.0	5,310.2	5,394.4	5,338.7	20.1	17.3	-156.83	288.4	-116.8	748.8	720.4	28.41	26.355	
5,415.0	5,325.1	5,409.1	5,353.2	20.1	17.3	-156.62	291.2	-117.2	748.6	720.1	28.42	26.339	
5,455.9	5,366.0	5,449.2	5,392.6	20.2	17.5	-106.87	298.8	-118.4	747.6	719.2	28.44	26.285	
5,500.0	5,410.1	5,492.6	5,435.1	20.2	17.7	-106.24	307.0	-119.6	746.4	718.0	28.42	26.267	
5,510.0	5,420.1	5,502.4	5,444.8	20.2	17.8	-106.09	308.8	-119.9	746.2	717.7	28.41	26.261	
5,600.0	5,510.1	5,590.7	5,531.5	20.3	18.2	-104.81	325.5	-122.4	744.0	715.7	28.38	26.214	
5,605.0	5,515.1	5,595.6	5,536.3	20.3	18.2	-104.74	326.4	-122.5	743.9	715.5	28.38	26.212	
5,700.0	5,610.1	5,688.9	5,627.8	20.3	18.6	-103.37	344.0	-125.1	742.1	713.8	28.35	26.176	
5,795.0	5,705.1	5,782.2	5,719.4	20.3	19.0	-102.00	361.6	-127.8	740.8	712.5	28.33	26.150	
5,800.0	5,710.1	5,787.1	5,724.2	20.3	19.0	-101.93	362.5	-127.9	740.7	712.4	28.33	26.148	
5,890.0	5,800.1	5,875.4	5,810.9	20.4	19.4	-100.62	379.2	-130.4	739.9	711.6	28.30	26.139	
5,900.0	5,810.1	5,885.2	5,820.6	20.4	19.5	-100.48	381.1	-130.7	739.8	711.5	28.30	26.139	
5,985.0	5,895.1	5,968.5	5,902.4	20.4	19.9	-99.29	396.3	-132.9	739.4	711.1	28.29	26.133	
6,000.0	5,910.1	5,983.3	5,916.9	20.4	19.9	-99.09	398.8	-133.3	739.4	711.1	28.30	26.129	
6,046.3	5,956.5	6,028.9	5,961.9	20.5	20.1	-98.48	406.5	-134.4	739.3	711.0	28.31	26.118	
6,080.0	5,990.1	6,062.1	5,994.7	20.5	20.3	-98.06	411.9	-135.3	739.4	711.0	28.32	26.109	
6,100.0	6,010.1	6,081.9	6,014.2	20.5	20.4	-97.82	415.0	-135.7	739.4	711.1	28.33	26.103	
6,175.0	6,085.1	6,156.2	6,087.6	20.5	20.7	-96.94	426.2	-137.4	739.6	711.2	28.36	26.075	
6,200.0	6,110.1	6,181.0	6,112.2	20.5	20.8	-96.67	429.7	-137.9	739.7	711.3	28.38	26.064	
6,270.0	6,180.1	6,250.7	6,181.3	20.6	21.1	-95.94	439.0	-139.3	740.1	711.6	28.43	26.030	
6,300.0	6,210.1	6,280.7	6,211.0	20.6	21.2	-95.65	442.7	-139.8	740.3	711.8	28.46	26.012	
6,365.0	6,275.1	6,345.7	6,275.6	20.6	21.5	-95.06	450.3	-141.0	740.7	712.2	28.52	25.972	
6,400.0	6,310.1	6,380.8	6,310.4	20.6	21.6	-94.77	454.0	-141.5	740.9	712.4	28.55	25.948	
6,460.0	6,370.1	6,441.0	6,370.4	20.6	21.9	-94.30	460.1	-142.4	741.3	712.7	28.62	25.903	
6,500.0	6,410.1	6,481.2	6,410.4	20.7	22.0	-94.01	463.7	-143.0	741.6	712.9	28.67	25.871	
6,555.0	6,465.1	6,536.6	6,465.6	20.7	22.2	-93.65	468.3	-143.7	742.0	713.3	28.73	25.823	
6,600.0	6,510.1	6,582.0	6,510.9	20.7	22.4	-93.39	471.7	-144.2	742.3	713.5	28.79	25.781	
6,650.0	6,560.1	6,632.5	6,561.2	20.7	22.6	-93.13	475.0	-144.7	742.6	713.7	28.86	25.733	
6,700.0	6,610.1	6,683.0	6,611.7	20.8	22.8	-92.91	477.9	-145.1	742.9	713.9	28.93	25.681	
6,745.0	6,655.1	6,728.6	6,657.2	20.8	22.9	-92.74	480.1	-145.4	743.1	714.1	28.99	25.634	
6,800.0	6,710.1	6,784.2	6,712.8	20.8	23.1	-92.56	482.4	-145.8	743.3	714.2	29.07	25.572	
6,840.0	6,750.1	6,824.8	6,753.3	20.8	23.2	-92.46	483.7	-146.0	743.4	714.3	29.12	25.526	
6,900.0	6,810.1	6,885.6	6,814.1	20.9	23.4	-92.35	485.1	-146.2	743.6	714.4	29.21	25.455	
6,935.0	6,845.1	6,921.1	6,849.6	20.9	23.5	-92.31	485.6	-146.2	743.6	714.4	29.26	25.414	
7,000.0	6,910.1	6,987.0	6,915.5	20.9	23.6	-92.28	486.0	-146.3	743.7	714.3	29.35	25.339	
7,030.0	6,940.1	7,017.0	6,945.5	20.9	23.6	-92.28	486.0	-146.3	743.7	714.3	29.39	25.308	
7,100.0	7,010.1	7,087.0	7,015.5	20.9	23.6	-92.28	486.0	-146.3	743.7	714.2	29.48	25.225	
7,125.0	7,035.1	7,112.0	7,040.5	21.0	23.6	-92.28	486.0	-146.3	743.7	714.2	29.52	25.196	
7,200.0	7,110.1	7,187.0	7,115.5	21.0	23.7	-92.28	486.0	-146.3	743.7	714.1	29.62	25.107	
7,220.0	7,130.1	7,207.0	7,135.5	21.0	23.7	-92.28	486.0	-146.3	743.7	714.0	29.65	25.084	
7,300.0	7,210.1	7,287.0	7,215.5	21.0	23.7	-92.28	486.0	-146.3	743.7	713.9	29.76	24.990	
7,315.0	7,225.1	7,302.0	7,230.5	21.1	23.7	-92.28	486.0	-146.3	743.7	713.9	29.78	24.973	
7,400.0	7,310.1	7,387.0	7,315.5	21.1	23.7	-92.28	486.0	-146.3	743.7	713.8	29.90	24.874	
7,410.0	7,320.1	7,397.0	7,325.5	21.1	23.7	-92.28	486.0	-146.3	743.7	713.8	29.91	24.862	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #521H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7437-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum	Separation	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)		
7,417.3	7,327.4	7,404.3	7,332.8	21.1	23.8	-92.28	486.0	-146.3	743.7	713.8	29.92	24.856	
7,500.0	7,410.1	7,484.0	7,412.5	21.1	23.8	-92.43	484.1	-146.3	743.8	713.8	29.98	24.811	
7,505.0	7,415.1	7,488.7	7,417.1	21.1	23.8	-92.46	483.7	-146.3	743.8	713.8	29.98	24.808	
7,600.0	7,510.1	7,575.5	7,502.6	21.2	23.9	-93.55	469.5	-146.4	744.8	714.7	30.07	24.769 SF	
7,695.0	7,605.1	7,656.3	7,579.5	21.2	24.0	-95.44	444.7	-146.7	747.5	717.3	30.18	24.770	
7,700.0	7,610.1	7,660.3	7,583.3	21.2	24.0	-95.56	443.2	-146.7	747.7	717.5	30.18	24.773	
7,790.0	7,700.1	7,728.9	7,645.0	21.3	24.1	-97.82	413.5	-146.9	753.1	722.8	30.29	24.863	
7,800.0	7,710.1	7,736.0	7,651.2	21.3	24.1	-98.08	410.0	-147.0	754.0	723.7	30.30	24.880	
7,885.0	7,795.1	7,792.6	7,698.8	21.3	24.1	-100.37	379.5	-147.2	763.2	732.8	30.40	25.107	
7,900.0	7,810.1	7,800.0	7,704.8	21.3	24.1	-100.69	375.1	-147.3	765.3	734.9	30.40	25.177	
7,980.0	7,890.1	7,850.0	7,743.8	21.4	24.2	-102.99	343.8	-147.5	778.8	748.3	30.49	25.541	
8,000.0	7,910.1	7,858.1	7,749.9	21.4	24.2	-103.39	338.4	-147.6	782.9	752.4	30.48	25.689	
8,075.0	7,985.1	7,900.0	7,779.9	21.4	24.2	-105.49	309.3	-147.8	800.9	770.3	30.54	26.220	
8,100.0	8,010.1	7,900.0	7,779.9	21.4	24.2	-105.49	309.3	-147.8	807.8	777.4	30.41	26.565	
8,170.0	8,080.1	7,935.1	7,803.4	21.5	24.3	-107.33	283.2	-148.1	829.7	799.3	30.44	27.256	
8,200.0	8,110.1	7,950.0	7,812.9	21.5	24.3	-108.13	271.7	-148.2	840.3	809.8	30.46	27.586	
8,265.0	8,175.1	7,969.7	7,824.9	21.5	24.3	-109.20	256.2	-148.3	865.4	835.1	30.35	28.512	
8,300.0	8,210.1	7,981.2	7,831.7	21.5	24.3	-109.83	246.9	-148.4	880.2	849.9	30.31	29.039	
8,360.0	8,270.1	8,000.0	7,842.4	21.6	24.3	-110.87	231.4	-148.5	907.7	877.4	30.24	30.013	
8,400.0	8,310.1	8,000.0	7,842.4	21.6	24.3	-110.87	231.4	-148.5	927.4	897.4	30.06	30.853	
8,455.0	8,365.1	8,025.3	7,856.0	21.6	24.4	-112.28	210.1	-148.7	956.0	925.8	30.12	31.743	
8,500.0	8,410.1	8,036.3	7,861.6	21.6	24.4	-112.90	200.6	-148.8	980.8	950.7	30.06	32.626	
8,550.0	8,460.1	8,050.0	7,868.4	21.7	24.4	-113.67	188.7	-148.9	1,009.7	979.7	30.03	33.621	
8,600.0	8,510.1	8,050.0	7,868.4	21.7	24.4	-113.67	188.7	-148.9	1,040.1	1,010.2	29.88	34.813	
8,645.0	8,555.1	8,067.4	7,876.5	21.7	24.4	-114.65	173.3	-149.0	1,068.3	1,038.4	29.93	35.694	
8,700.0	8,610.1	8,077.7	7,881.1	21.7	24.4	-115.23	164.1	-149.1	1,104.2	1,074.3	29.90	36.928	
8,740.0	8,650.1	8,084.7	7,884.1	21.8	24.4	-115.63	157.7	-149.1	1,131.2	1,101.3	29.89	37.844	
8,800.0	8,710.1	8,100.0	7,890.5	21.8	24.4	-116.49	143.8	-149.3	1,172.9	1,142.9	29.93	39.183	
8,835.0	8,745.1	8,100.0	7,890.5	21.8	24.4	-116.49	143.8	-149.3	1,197.7	1,167.8	29.89	40.070	
8,900.0	8,810.1	8,100.0	7,890.5	21.8	24.4	-116.49	143.8	-149.3	1,245.2	1,215.4	29.84	41.727	
8,930.0	8,840.1	8,100.0	7,890.5	21.9	24.4	-116.49	143.8	-149.3	1,267.7	1,237.8	29.83	42.493	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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
4,940.0	4,852.9	5,126.2	5,036.8	18.3	19.0	53.89	229.9	1,839.6	1,319.2	1,286.5	32.68	40.367
5,000.0	4,912.1	5,173.2	5,083.3	18.5	19.2	53.88	232.6	1,832.9	1,304.1	1,271.0	33.06	39.444
5,035.0	4,946.7	5,200.0	5,109.8	18.7	19.3	53.86	234.0	1,829.2	1,295.8	1,262.6	33.28	38.940
5,100.0	5,011.1	5,252.6	5,161.9	19.0	19.6	53.83	236.7	1,822.3	1,281.6	1,248.0	33.68	38.052
5,130.0	5,040.9	5,276.6	5,185.7	19.1	19.7	53.82	237.9	1,819.3	1,275.6	1,241.7	33.86	37.670
5,200.0	5,110.5	5,333.0	5,241.5	19.4	19.9	53.76	240.6	1,812.7	1,262.6	1,228.3	34.28	36.831
5,225.0	5,135.4	5,353.2	5,261.6	19.5	20.0	53.74	241.5	1,810.4	1,258.4	1,224.0	34.43	36.554
5,300.0	5,210.2	5,414.1	5,322.2	19.8	20.2	53.66	244.0	1,804.0	1,247.0	1,212.1	34.86	35.774
5,320.0	5,230.2	5,430.4	5,338.4	19.9	20.3	53.63	244.7	1,802.3	1,244.3	1,209.3	34.97	35.586
5,400.0	5,310.2	5,500.0	5,407.6	20.1	20.6	53.51	247.2	1,795.9	1,234.8	1,199.4	35.41	34.872
5,415.0	5,325.1	5,500.0	5,407.6	20.1	20.6	53.49	247.2	1,795.9	1,233.3	1,197.9	35.44	34.798
5,455.9	5,366.0	5,541.7	5,449.2	20.2	20.7	102.59	248.6	1,792.4	1,229.5	1,193.9	35.64	34.502
5,500.0	5,410.1	5,578.1	5,485.3	20.2	20.9	102.57	249.7	1,789.6	1,225.9	1,190.1	35.80	34.247
5,510.0	5,420.1	5,586.3	5,493.6	20.2	20.9	102.56	249.9	1,789.0	1,225.1	1,189.3	35.84	34.188
5,600.0	5,510.1	5,660.4	5,567.5	20.3	21.2	102.52	251.9	1,784.1	1,218.8	1,182.6	36.17	33.693
5,605.0	5,515.1	5,664.6	5,571.6	20.3	21.2	102.52	252.0	1,783.8	1,218.4	1,182.3	36.19	33.666
5,700.0	5,610.1	5,743.0	5,649.9	20.3	21.4	102.49	253.7	1,779.6	1,213.0	1,176.5	36.53	33.207
5,795.0	5,705.1	5,821.5	5,728.4	20.3	21.7	102.46	254.9	1,776.4	1,208.9	1,172.0	36.85	32.809
5,800.0	5,710.1	5,825.6	5,732.5	20.3	21.7	102.46	255.0	1,776.3	1,208.7	1,171.8	36.86	32.791
5,890.0	5,800.1	5,900.0	5,806.8	20.4	21.9	102.44	255.8	1,774.2	1,206.0	1,168.9	37.14	32.474
5,900.0	5,810.1	5,900.0	5,806.8	20.4	21.9	102.44	255.8	1,774.2	1,205.8	1,168.7	37.14	32.468
5,985.0	5,895.1	5,978.8	5,885.6	20.4	22.1	102.43	256.3	1,773.0	1,204.5	1,167.1	37.38	32.219
6,000.0	5,910.1	5,991.2	5,898.0	20.4	22.2	102.43	256.3	1,772.9	1,204.3	1,166.9	37.42	32.183
6,079.5	5,989.6	6,061.5	5,968.3	20.5	22.2	102.43	256.4	1,772.7	1,204.1	1,166.6	37.52	32.089
6,080.0	5,990.1	6,062.0	5,968.8	20.5	22.2	102.43	256.4	1,772.7	1,204.1	1,166.6	37.52	32.089
6,100.0	6,010.1	6,082.0	5,988.8	20.5	22.2	102.43	256.4	1,772.7	1,204.1	1,166.6	37.54	32.075
6,175.0	6,085.1	6,157.0	6,063.8	20.5	22.3	102.43	256.4	1,772.7	1,204.1	1,166.5	37.61	32.016
6,200.0	6,110.1	6,182.0	6,088.8	20.5	22.3	102.43	256.4	1,772.7	1,204.1	1,166.5	37.63	31.996
6,270.0	6,180.1	6,252.0	6,158.8	20.6	22.3	102.43	256.4	1,772.7	1,204.1	1,166.4	37.70	31.938
6,300.0	6,210.1	6,282.0	6,188.8	20.6	22.3	102.43	256.4	1,772.7	1,204.1	1,166.4	37.73	31.914
6,365.0	6,275.1	6,347.0	6,253.8	20.6	22.3	102.43	256.4	1,772.7	1,204.1	1,166.3	37.79	31.861
6,400.0	6,310.1	6,382.0	6,288.8	20.6	22.4	102.43	256.4	1,772.7	1,204.1	1,166.3	37.83	31.832
6,460.0	6,370.1	6,442.0	6,348.8	20.6	22.4	102.43	256.4	1,772.7	1,204.1	1,166.2	37.89	31.783
6,500.0	6,410.1	6,482.0	6,388.8	20.7	22.4	102.43	256.4	1,772.7	1,204.1	1,166.2	37.92	31.751
6,555.0	6,465.1	6,537.0	6,443.8	20.7	22.4	102.43	256.4	1,772.7	1,204.1	1,166.2	37.98	31.706
6,600.0	6,510.1	6,582.0	6,488.8	20.7	22.4	102.43	256.4	1,772.7	1,204.1	1,166.1	38.02	31.669
6,650.0	6,560.1	6,632.0	6,538.8	20.7	22.5	102.43	256.4	1,772.7	1,204.1	1,166.1	38.07	31.629
6,700.0	6,610.1	6,682.0	6,588.8	20.8	22.5	102.43	256.4	1,772.7	1,204.1	1,166.0	38.12	31.588
6,745.0	6,655.1	6,727.0	6,633.8	20.8	22.5	102.43	256.4	1,772.7	1,204.1	1,166.0	38.16	31.551
6,800.0	6,710.1	6,782.0	6,688.8	20.8	22.5	102.43	256.4	1,772.7	1,204.1	1,165.9	38.22	31.506
6,840.0	6,750.1	6,822.0	6,728.8	20.8	22.5	102.43	256.4	1,772.7	1,204.1	1,165.9	38.26	31.474
6,900.0	6,810.1	6,882.0	6,788.8	20.9	22.6	102.43	256.4	1,772.7	1,204.1	1,165.8	38.32	31.425
6,935.0	6,845.1	6,917.0	6,823.8	20.9	22.6	102.43	256.4	1,772.7	1,204.1	1,165.8	38.35	31.397
7,000.0	6,910.1	6,982.0	6,888.8	20.9	22.6	102.43	256.4	1,772.7	1,204.1	1,165.7	38.42	31.344
7,030.0	6,940.1	7,012.0	6,918.8	20.9	22.6	102.43	256.4	1,772.7	1,204.1	1,165.7	38.45	31.319
7,100.0	7,010.1	7,082.0	6,988.8	20.9	22.6	102.43	256.4	1,772.7	1,204.1	1,165.6	38.52	31.263
7,125.0	7,035.1	7,107.0	7,013.8	21.0	22.6	102.43	256.4	1,772.7	1,204.1	1,165.6	38.54	31.242
7,200.0	7,110.1	7,182.0	7,088.8	21.0	22.7	102.43	256.4	1,772.7	1,204.1	1,165.5	38.62	31.182
7,220.0	7,130.1	7,202.0	7,108.8	21.0	22.7	102.43	256.4	1,772.7	1,204.1	1,165.5	38.64	31.165
7,300.0	7,210.1	7,282.0	7,188.8	21.0	22.7	102.43	256.4	1,772.7	1,204.1	1,165.4	38.72	31.101
7,315.0	7,225.1	7,297.0	7,203.8	21.1	22.7	102.43	256.4	1,772.7	1,204.1	1,165.4	38.73	31.088

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8483-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Rule Assigned:													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	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
7,400.0	7,310.1	7,382.0	7,288.8	21.1	22.8	102.43	256.4	1,772.7	1,204.1	1,165.3	38.82	31.020	
7,410.0	7,320.1	7,392.0	7,298.8	21.1	22.8	102.43	256.4	1,772.7	1,204.1	1,165.3	38.83	31.012	
7,500.0	7,410.1	7,482.0	7,388.8	21.1	22.8	102.43	256.4	1,772.7	1,204.1	1,165.2	38.92	30.939	
7,505.0	7,415.1	7,487.0	7,393.8	21.1	22.8	102.43	256.4	1,772.7	1,204.1	1,165.2	38.92	30.935	
7,600.0	7,510.1	7,582.0	7,488.8	21.2	22.8	102.43	256.4	1,772.7	1,204.1	1,165.1	39.02	30.858	
7,695.0	7,605.1	7,677.0	7,583.8	21.2	22.9	102.43	256.4	1,772.7	1,204.1	1,165.0	39.12	30.782	
7,700.0	7,610.1	7,682.0	7,588.8	21.2	22.9	102.43	256.4	1,772.7	1,204.1	1,165.0	39.12	30.778	
7,790.0	7,700.1	7,772.0	7,678.8	21.3	22.9	102.43	256.4	1,772.7	1,204.1	1,164.9	39.22	30.705	
7,800.0	7,710.1	7,782.0	7,688.8	21.3	22.9	102.43	256.4	1,772.7	1,204.1	1,164.9	39.23	30.697	
7,885.0	7,795.1	7,867.0	7,773.8	21.3	23.0	102.43	256.4	1,772.7	1,204.1	1,164.8	39.31	30.629	
7,900.0	7,810.1	7,882.0	7,788.8	21.3	23.0	102.43	256.4	1,772.7	1,204.1	1,164.8	39.33	30.617	
7,980.0	7,890.1	7,962.0	7,868.8	21.4	23.0	102.43	256.4	1,772.7	1,204.1	1,164.7	39.41	30.552	
8,000.0	7,910.1	7,982.0	7,888.8	21.4	23.0	102.43	256.4	1,772.7	1,204.1	1,164.7	39.43	30.536	
8,075.0	7,985.1	8,057.0	7,963.8	21.4	23.0	102.43	256.4	1,772.7	1,204.1	1,164.6	39.51	30.476	
8,100.0	8,010.1	8,082.0	7,988.8	21.4	23.0	102.43	256.4	1,772.7	1,204.1	1,164.6	39.54	30.456	
8,170.0	8,080.1	8,152.0	8,058.8	21.5	23.1	102.43	256.4	1,772.7	1,204.1	1,164.5	39.61	30.400	
8,200.0	8,110.1	8,182.0	8,088.8	21.5	23.1	102.43	256.4	1,772.7	1,204.1	1,164.5	39.64	30.376	
8,265.0	8,175.1	8,247.0	8,153.8	21.5	23.1	102.43	256.4	1,772.7	1,204.1	1,164.4	39.71	30.324	
8,300.0	8,210.1	8,282.0	8,188.8	21.5	23.1	102.43	256.4	1,772.7	1,204.1	1,164.4	39.75	30.296	
8,360.0	8,270.1	8,342.0	8,248.8	21.6	23.2	102.43	256.4	1,772.7	1,204.1	1,164.3	39.81	30.248	
8,400.0	8,310.1	8,382.0	8,288.8	21.6	23.2	102.43	256.4	1,772.7	1,204.1	1,164.3	39.85	30.217	
8,455.0	8,365.1	8,437.0	8,343.8	21.6	23.2	102.43	256.4	1,772.7	1,204.1	1,164.2	39.90	30.176	
8,500.0	8,410.1	8,482.0	8,388.8	21.6	23.2	102.43	256.4	1,772.7	1,204.1	1,164.2	39.94	30.145 CC, ES	
8,550.0	8,460.1	8,517.2	8,424.0	21.7	23.2	102.48	255.4	1,772.7	1,204.4	1,164.5	39.96	30.144 SF	
8,600.0	8,510.1	8,550.0	8,456.7	21.7	23.2	102.61	252.5	1,772.7	1,205.4	1,165.4	39.95	30.169	
8,645.0	8,555.1	8,582.4	8,488.7	21.7	23.2	102.83	247.8	1,772.6	1,206.8	1,166.8	39.95	30.210	
8,700.0	8,610.1	8,619.1	8,524.7	21.7	23.2	103.18	240.4	1,772.6	1,209.3	1,169.3	39.92	30.292	
8,740.0	8,650.1	8,650.0	8,554.5	21.8	23.2	103.55	232.3	1,772.5	1,211.6	1,171.7	39.90	30.371	
8,800.0	8,710.1	8,682.9	8,585.7	21.8	23.3	104.02	222.0	1,772.4	1,216.1	1,176.3	39.83	30.532	
8,835.0	8,745.1	8,700.0	8,601.7	21.8	23.3	104.30	215.9	1,772.4	1,219.3	1,179.5	39.78	30.648	
8,900.0	8,810.1	8,750.0	8,647.3	21.8	23.3	105.24	195.4	1,772.2	1,226.4	1,186.7	39.70	30.893	
8,930.0	8,840.1	8,750.0	8,647.3	21.9	23.3	105.24	195.4	1,772.2	1,230.2	1,190.6	39.63	31.040	
9,000.0	8,910.1	8,800.0	8,690.9	21.9	23.3	106.34	171.1	1,772.0	1,240.6	1,201.0	39.51	31.397	
9,025.0	8,935.1	8,800.0	8,690.9	21.9	23.3	106.34	171.1	1,772.0	1,244.8	1,205.3	39.45	31.554	
9,100.0	9,010.1	8,850.0	8,732.3	21.9	23.3	107.60	143.0	1,771.8	1,259.1	1,219.8	39.29	32.046	
9,120.0	9,030.1	8,850.0	8,732.3	22.0	23.3	107.60	143.0	1,771.8	1,263.3	1,224.0	39.23	32.198	
9,200.0	9,110.1	8,886.8	8,761.0	22.0	23.3	108.61	120.1	1,771.6	1,282.2	1,243.1	39.03	32.848	
9,215.0	9,125.1	8,900.0	8,771.0	22.0	23.3	108.99	111.4	1,771.5	1,286.1	1,247.1	39.00	32.980	
9,291.9	9,202.0	8,922.0	8,787.1	22.0	23.3	109.64	96.5	1,771.4	1,307.8	1,269.0	38.78	33.720	
9,300.0	9,210.1	8,924.9	8,789.3	22.0	23.4	-70.54	94.4	1,771.4	1,310.2	1,271.4	38.84	33.736	
9,310.0	9,220.1	8,928.6	8,791.9	22.0	23.4	-70.14	91.9	1,771.3	1,313.2	1,274.4	38.81	33.839	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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		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	
4,800.0	4,715.9	5,103.6	5,010.4	17.6	19.0	59.67	131.8	1,762.7	1,306.3	1,274.6	31.71	41.193	
4,845.0	4,759.8	5,144.8	5,050.4	17.8	19.2	59.77	134.1	1,753.0	1,290.4	1,258.4	32.00	40.326	
4,900.0	4,813.6	5,195.5	5,099.6	18.1	19.4	59.87	137.1	1,741.1	1,271.5	1,239.1	32.35	39.301	
4,940.0	4,852.9	5,232.6	5,135.6	18.3	19.6	59.94	139.2	1,732.4	1,258.1	1,225.5	32.60	38.585	
5,000.0	4,912.1	5,288.6	5,189.9	18.5	19.9	60.03	142.4	1,719.3	1,238.5	1,205.5	32.99	37.546	
5,035.0	4,946.7	5,321.4	5,221.7	18.7	20.0	60.06	144.3	1,711.6	1,227.4	1,194.2	33.20	36.965	
5,100.0	5,011.1	5,382.7	5,281.2	19.0	20.3	60.11	147.8	1,697.2	1,207.3	1,173.7	33.61	35.918	
5,130.0	5,040.9	5,411.1	5,308.7	19.1	20.5	60.12	149.4	1,690.5	1,198.3	1,164.5	33.80	35.455	
5,200.0	5,110.5	5,477.6	5,373.3	19.4	20.8	60.11	153.3	1,674.8	1,178.0	1,143.7	34.24	34.407	
5,225.0	5,135.4	5,501.5	5,396.5	19.5	20.9	60.10	154.6	1,669.2	1,170.9	1,136.5	34.39	34.048	
5,300.0	5,210.2	5,573.4	5,466.2	19.8	21.2	60.02	158.8	1,652.3	1,150.3	1,115.5	34.85	33.004	
5,320.0	5,230.2	5,592.6	5,484.9	19.9	21.3	59.99	159.9	1,647.8	1,145.0	1,110.0	34.97	32.738	
5,400.0	5,310.2	5,669.8	5,559.8	20.1	21.7	59.83	164.3	1,629.7	1,124.4	1,088.9	35.46	31.705	
5,415.0	5,325.1	5,684.4	5,573.9	20.1	21.8	59.79	165.1	1,626.3	1,120.7	1,085.1	35.54	31.529	
5,455.9	5,366.0	5,724.0	5,612.3	20.2	22.0	108.85	167.4	1,616.9	1,110.7	1,074.9	35.76	31.057	
5,500.0	5,410.1	5,766.8	5,653.9	20.2	22.2	108.89	169.9	1,606.9	1,100.0	1,064.1	35.98	30.572	
5,510.0	5,420.1	5,776.5	5,663.3	20.2	22.2	108.91	170.4	1,604.6	1,097.6	1,061.6	36.03	30.460	
5,600.0	5,510.1	5,863.8	5,748.0	20.3	22.6	109.01	175.5	1,584.1	1,075.9	1,039.4	36.51	29.468	
5,605.0	5,515.1	5,868.7	5,752.7	20.3	22.6	109.02	175.7	1,582.9	1,074.7	1,038.2	36.54	29.414	
5,700.0	5,610.1	5,960.8	5,842.2	20.3	23.1	109.13	181.0	1,561.3	1,051.8	1,014.8	37.04	28.396	
5,795.0	5,705.1	6,053.0	5,931.6	20.3	23.5	109.25	186.3	1,539.6	1,029.0	991.4	37.54	27.406	
5,800.0	5,710.1	6,057.9	5,936.3	20.3	23.6	109.26	186.6	1,538.5	1,027.7	990.2	37.57	27.355	
5,890.0	5,800.1	6,145.2	6,021.0	20.4	24.0	109.38	191.6	1,517.9	1,006.1	968.0	38.05	26.442	
5,900.0	5,810.1	6,154.9	6,030.5	20.4	24.0	109.39	192.2	1,515.7	1,003.7	965.6	38.10	26.342	
5,985.0	5,895.1	6,237.4	6,110.5	20.4	24.4	109.51	196.9	1,496.3	983.2	944.6	38.55	25.503	
6,000.0	5,910.1	6,251.9	6,124.6	20.4	24.5	109.53	197.8	1,492.9	979.6	940.9	38.63	25.357	
6,080.0	5,990.1	6,329.6	6,199.9	20.5	24.9	109.65	202.2	1,474.6	960.3	921.3	39.05	24.589	
6,100.0	6,010.1	6,349.0	6,218.8	20.5	25.0	109.68	203.3	1,470.1	955.5	916.3	39.16	24.400	
6,175.0	6,085.1	6,421.7	6,289.4	20.5	25.3	109.79	207.5	1,453.0	937.5	897.9	39.56	23.698	
6,200.0	6,110.1	6,446.0	6,312.9	20.5	25.4	109.83	208.9	1,447.3	931.4	891.7	39.69	23.468	
6,270.0	6,180.1	6,513.9	6,378.8	20.6	25.7	109.94	212.8	1,431.3	914.6	874.5	40.06	22.830	
6,300.0	6,210.1	6,543.0	6,407.1	20.6	25.9	109.99	214.5	1,424.4	907.4	867.2	40.22	22.561	
6,365.0	6,275.1	6,606.1	6,468.2	20.6	26.2	110.10	218.1	1,409.6	891.7	851.2	40.56	21.984	
6,400.0	6,310.1	6,640.1	6,501.2	20.6	26.4	110.16	220.1	1,401.6	883.3	842.6	40.75	21.678	
6,460.0	6,370.1	6,698.3	6,557.7	20.6	26.6	110.27	223.4	1,388.0	868.9	827.8	41.06	21.160	
6,500.0	6,410.1	6,737.1	6,595.3	20.7	26.8	110.34	225.6	1,378.8	859.3	818.0	41.27	20.820	
6,555.0	6,465.1	6,786.4	6,643.2	20.7	27.1	110.44	228.5	1,367.3	846.1	804.5	41.55	20.361	
6,600.0	6,510.1	6,820.3	6,676.2	20.7	27.2	110.50	230.3	1,359.7	835.7	794.0	41.79	20.000	
6,650.0	6,560.1	6,858.2	6,713.1	20.7	27.4	110.57	232.3	1,351.6	824.8	782.8	42.05	19.618	
6,700.0	6,610.1	6,900.0	6,754.1	20.8	27.6	110.65	234.3	1,343.2	814.6	772.3	42.31	19.256	
6,745.0	6,655.1	6,930.8	6,784.2	20.8	27.7	110.70	235.8	1,337.5	805.9	763.4	42.52	18.955	
6,800.0	6,710.1	6,973.1	6,825.9	20.8	27.9	110.77	237.6	1,330.0	796.1	753.3	42.78	18.609	
6,840.0	6,750.1	7,000.0	6,852.4	20.8	28.1	110.81	238.7	1,325.6	789.4	746.4	42.95	18.378	
6,900.0	6,810.1	7,050.6	6,902.4	20.9	28.3	110.88	240.5	1,318.0	780.2	736.9	43.23	18.048	
6,935.0	6,845.1	7,077.9	6,929.4	20.9	28.4	110.91	241.4	1,314.2	775.2	731.8	43.38	17.872	
7,000.0	6,910.1	7,128.8	6,979.9	20.9	28.6	110.98	243.0	1,307.8	766.9	723.3	43.64	17.574	
7,030.0	6,940.1	7,152.4	7,003.3	20.9	28.7	111.00	243.6	1,305.2	763.5	719.7	43.76	17.449	
7,100.0	7,010.1	7,200.0	7,050.7	20.9	29.0	111.05	244.8	1,300.4	756.4	712.5	43.98	17.200	
7,125.0	7,035.1	7,227.2	7,077.8	21.0	29.1	111.07	245.4	1,298.0	754.2	710.1	44.10	17.101	
7,200.0	7,110.1	7,286.6	7,137.0	21.0	29.3	111.12	246.5	1,293.7	748.6	704.2	44.35	16.880	
7,220.0	7,130.1	7,300.0	7,150.4	21.0	29.3	111.13	246.7	1,292.9	747.4	703.0	44.40	16.833	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	
7,300.0	7,210.1	7,365.9	7,216.2	21.0	29.6	111.16	247.4	1,289.7	743.5	698.9	44.63	16.661
7,315.0	7,225.1	7,377.9	7,228.1	21.1	29.6	111.16	247.5	1,289.3	743.0	698.3	44.67	16.635
7,400.0	7,310.1	7,445.5	7,295.7	21.1	29.8	111.18	247.9	1,287.9	741.2	696.4	44.79	16.548
7,410.0	7,320.1	7,453.4	7,303.7	21.1	29.8	111.18	247.9	1,287.9	741.1	696.3	44.80	16.543
7,451.1	7,361.2	7,489.6	7,339.8	21.1	29.8	111.18	247.9	1,287.8	741.0	696.2	44.83	16.528
7,500.0	7,410.1	7,538.5	7,388.7	21.1	29.8	111.18	247.9	1,287.8	741.0	696.2	44.88	16.512
7,505.0	7,415.1	7,543.5	7,393.7	21.1	29.8	111.18	247.9	1,287.8	741.0	696.2	44.88	16.511
7,600.0	7,510.1	7,638.5	7,488.7	21.2	29.8	111.18	247.9	1,287.8	741.0	696.1	44.97	16.478
7,695.0	7,605.1	7,733.5	7,583.7	21.2	29.9	111.18	247.9	1,287.8	741.0	696.0	45.06	16.445
7,700.0	7,610.1	7,738.5	7,588.7	21.2	29.9	111.18	247.9	1,287.8	741.0	696.0	45.07	16.443
7,790.0	7,700.1	7,828.5	7,678.7	21.3	29.9	111.18	247.9	1,287.8	741.0	695.9	45.15	16.412
7,800.0	7,710.1	7,838.5	7,688.7	21.3	29.9	111.18	247.9	1,287.8	741.0	695.9	45.16	16.409
7,885.0	7,795.1	7,923.5	7,773.7	21.3	29.9	111.18	247.9	1,287.8	741.0	695.8	45.24	16.380
7,900.0	7,810.1	7,938.5	7,788.7	21.3	29.9	111.18	247.9	1,287.8	741.0	695.8	45.26	16.375
7,980.0	7,890.1	8,018.5	7,868.7	21.4	29.9	111.18	247.9	1,287.8	741.0	695.7	45.33	16.347
8,000.0	7,910.1	8,038.5	7,888.7	21.4	29.9	111.18	247.9	1,287.8	741.0	695.7	45.35	16.340
8,075.0	7,985.1	8,113.5	7,963.7	21.4	30.0	111.18	247.9	1,287.8	741.0	695.6	45.42	16.314
8,100.0	8,010.1	8,138.5	7,988.7	21.4	30.0	111.18	247.9	1,287.8	741.0	695.6	45.45	16.306
8,170.0	8,080.1	8,208.5	8,058.7	21.5	30.0	111.18	247.9	1,287.8	741.0	695.5	45.51	16.282
8,200.0	8,110.1	8,238.5	8,088.7	21.5	30.0	111.18	247.9	1,287.8	741.0	695.5	45.54	16.272
8,265.0	8,175.1	8,303.5	8,153.7	21.5	30.0	111.18	247.9	1,287.8	741.0	695.4	45.60	16.249
8,300.0	8,210.1	8,338.5	8,188.7	21.5	30.0	111.18	247.9	1,287.8	741.0	695.4	45.64	16.237
8,360.0	8,270.1	8,398.5	8,248.7	21.6	30.1	111.18	247.9	1,287.8	741.0	695.3	45.70	16.217
8,400.0	8,310.1	8,438.5	8,288.7	21.6	30.1	111.18	247.9	1,287.8	741.0	695.3	45.73	16.203
8,455.0	8,365.1	8,493.5	8,343.7	21.6	30.1	111.18	247.9	1,287.8	741.0	695.3	45.79	16.184
8,458.9	8,369.1	8,497.4	8,347.7	21.6	30.1	111.18	247.9	1,287.8	741.0	695.3	45.79	16.183 CC
8,500.0	8,410.1	8,535.8	8,386.0	21.6	30.1	111.18	247.9	1,287.8	741.1	695.2	45.81	16.177 ES
8,550.0	8,460.1	8,570.0	8,420.2	21.7	30.1	111.28	246.5	1,287.8	741.8	696.0	45.74	16.217
8,600.0	8,510.1	8,600.0	8,450.1	21.7	30.1	111.49	243.6	1,287.8	743.6	698.0	45.61	16.302
8,645.0	8,555.1	8,634.1	8,483.8	21.7	30.1	111.86	238.4	1,287.7	746.1	700.6	45.51	16.395
8,700.0	8,610.1	8,670.1	8,519.0	21.7	30.1	112.40	230.8	1,287.7	750.5	705.2	45.31	16.563
8,740.0	8,650.1	8,700.0	8,547.8	21.8	30.1	112.97	222.8	1,287.6	754.6	709.5	45.16	16.709
8,800.0	8,710.1	8,732.7	8,578.7	21.8	30.1	113.70	212.3	1,287.5	762.3	717.5	44.84	17.003
8,835.0	8,745.1	8,750.0	8,594.9	21.8	30.1	114.14	206.1	1,287.5	767.7	723.1	44.61	17.208
8,900.0	8,810.1	8,800.0	8,640.4	21.8	30.1	115.56	185.4	1,287.3	779.6	735.4	44.26	17.614
8,930.0	8,840.1	8,800.0	8,640.4	21.9	30.1	115.56	185.4	1,287.3	785.9	741.9	43.97	17.875
9,000.0	8,910.1	8,850.0	8,683.8	21.9	30.1	117.21	160.7	1,287.1	802.7	759.2	43.51	18.451
9,025.0	8,935.1	8,850.0	8,683.8	21.9	30.1	117.21	160.7	1,287.1	809.5	766.2	43.24	18.719
9,100.0	9,010.1	8,900.0	8,725.0	21.9	30.2	119.04	132.4	1,286.8	832.2	789.5	42.69	19.493
9,120.0	9,030.1	8,900.0	8,725.0	22.0	30.2	119.04	132.4	1,286.8	838.7	796.3	42.48	19.745
9,200.0	9,110.1	8,933.0	8,750.8	22.0	30.2	120.34	111.8	1,286.7	867.9	826.1	41.79	20.770
9,215.0	9,125.1	8,950.0	8,763.6	22.0	30.2	121.03	100.6	1,286.6	873.9	832.2	41.70	20.955
9,291.9	9,202.0	8,967.8	8,776.6	22.0	30.2	121.77	88.5	1,286.5	906.3	865.3	41.00	22.106
9,300.0	9,210.1	8,970.7	8,778.7	22.0	30.2	-58.28	86.5	1,286.5	909.9	868.9	41.00	22.194
9,310.0	9,220.1	8,974.3	8,781.3	22.0	30.2	-57.71	84.0	1,286.4	914.3	873.4	40.91	22.347
9,350.0	9,260.0	9,000.0	8,799.2	22.1	30.2	-55.13	65.5	1,286.3	931.9	891.3	40.64	22.929
9,400.0	9,309.5	9,000.0	8,799.2	22.1	30.2	-53.25	65.5	1,286.3	952.9	912.7	40.22	23.693
9,405.0	9,314.4	9,000.0	8,799.2	22.1	30.2	-53.07	65.5	1,286.3	955.0	914.8	40.18	23.769
9,450.0	9,358.1	9,026.1	8,816.6	22.1	30.2	-50.74	46.0	1,286.1	972.9	933.0	39.94	24.361
9,500.0	9,405.6	9,050.0	8,831.7	22.2	30.2	-48.58	27.5	1,286.0	991.9	952.2	39.69	24.991
9,550.0	9,451.5	9,064.5	8,840.5	22.2	30.2	-46.87	16.0	1,285.9	1,009.5	970.0	39.45	25.588

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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		Rule Assigned:		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
9,595.0	9,491.2	9,082.1	8,850.7	22.2	30.2	-45.43	1.7	1,285.8	1,024.0	984.8	39.29	26.066	
9,600.0	9,495.5	9,084.0	8,851.8	22.2	30.2	-45.28	0.1	1,285.7	1,025.6	986.3	39.27	26.116	
9,650.0	9,537.3	9,100.0	8,860.7	22.3	30.2	-43.95	-13.2	1,285.6	1,040.1	1,001.0	39.12	26.588	
9,690.0	9,568.9	9,119.6	8,871.0	22.3	30.2	-42.94	-29.8	1,285.5	1,050.6	1,011.5	39.05	26.903	
9,700.0	9,576.5	9,123.5	8,873.1	22.3	30.2	-42.72	-33.2	1,285.5	1,053.0	1,014.0	39.03	26.977	
9,750.0	9,612.9	9,150.0	8,886.0	22.4	30.3	-41.67	-56.3	1,285.3	1,064.1	1,025.2	38.99	27.294	
9,785.0	9,636.5	9,150.0	8,886.0	22.4	30.3	-41.22	-56.3	1,285.3	1,070.8	1,031.9	38.94	27.502	
9,800.0	9,646.1	9,150.0	8,886.0	22.4	30.3	-41.04	-56.3	1,285.3	1,073.6	1,034.6	38.92	27.583	
9,850.0	9,676.0	9,183.6	8,900.9	22.4	30.3	-40.32	-86.4	1,285.0	1,080.7	1,041.7	38.97	27.734	
9,880.0	9,692.2	9,200.0	8,907.5	22.5	30.3	-40.01	-101.4	1,284.9	1,084.2	1,045.2	39.00	27.800	
9,900.0	9,702.2	9,200.0	8,907.5	22.5	30.3	-39.89	-101.4	1,284.9	1,086.1	1,047.1	39.01	27.842	
9,950.0	9,724.7	9,224.0	8,916.4	22.5	30.3	-39.59	-123.7	1,284.7	1,089.6	1,050.5	39.10	27.863	
9,975.0	9,734.4	9,234.1	8,919.9	22.5	30.3	-39.51	-133.2	1,284.6	1,090.5	1,051.4	39.16	27.848	
10,000.0	9,743.2	9,250.0	8,925.0	22.6	30.3	-39.47	-148.2	1,284.5	1,091.1	1,051.8	39.23	27.812	
10,050.0	9,757.5	9,250.0	8,925.0	22.6	30.3	-39.49	-148.2	1,284.5	1,090.7	1,051.3	39.36	27.712	
10,070.0	9,762.1	9,272.6	8,931.6	22.6	30.3	-39.58	-169.8	1,284.3	1,089.7	1,050.2	39.45	27.625	
10,100.0	9,767.6	9,284.7	8,934.7	22.7	30.4	-39.73	-181.5	1,284.2	1,087.9	1,048.3	39.56	27.502	
10,150.0	9,773.5	9,300.0	8,938.4	22.7	30.4	-40.08	-196.4	1,284.1	1,083.4	1,043.6	39.77	27.243	
10,165.0	9,774.4	9,300.0	8,938.4	22.7	30.4	-40.19	-196.4	1,284.1	1,081.8	1,041.9	39.83	27.160	
10,191.6	9,775.0	9,321.7	8,942.8	22.7	30.4	-40.54	-217.6	1,283.9	1,078.1	1,038.1	39.96	26.980	
10,200.0	9,775.0	9,325.1	8,943.5	22.7	30.4	-40.57	-220.9	1,283.9	1,076.9	1,036.9	40.00	26.925	
10,260.0	9,775.0	9,350.0	8,947.5	22.8	30.4	-40.71	-245.5	1,283.7	1,069.6	1,029.3	40.27	26.561	
10,300.0	9,775.1	9,365.9	8,949.4	22.8	30.4	-40.78	-261.3	1,283.6	1,065.8	1,025.4	40.45	26.351	
10,355.0	9,775.1	9,400.0	8,952.2	22.9	30.5	-40.87	-295.3	1,283.3	1,062.2	1,021.5	40.69	26.101	
10,400.0	9,775.1	9,400.0	8,952.2	22.9	30.5	-40.87	-295.3	1,283.3	1,060.2	1,019.3	40.90	25.925	
10,450.0	9,775.1	9,429.3	8,953.0	23.0	30.5	-40.90	-324.6	1,283.1	1,059.4	1,018.3	41.10	25.775	
10,453.2	9,775.1	9,429.7	8,953.0	23.0	30.5	-40.90	-325.0	1,283.1	1,059.4	1,018.3	41.12	25.766	
10,500.0	9,775.2	9,476.6	8,953.0	23.1	30.6	-40.90	-371.8	1,282.7	1,059.4	1,018.1	41.29	25.659	
10,545.0	9,775.2	9,521.6	8,953.1	23.1	30.6	-40.91	-416.8	1,282.3	1,059.4	1,018.0	41.47	25.546	
10,600.0	9,775.2	9,576.6	8,953.1	23.2	30.7	-40.91	-471.8	1,281.8	1,059.4	1,017.7	41.71	25.403	
10,640.0	9,775.2	9,616.6	8,953.2	23.3	30.8	-40.91	-511.8	1,281.5	1,059.5	1,017.6	41.89	25.291	
10,700.0	9,775.3	9,676.6	8,953.2	23.4	30.8	-40.91	-571.8	1,281.0	1,059.5	1,017.3	42.18	25.120	
10,735.0	9,775.3	9,711.6	8,953.2	23.4	30.9	-40.91	-606.8	1,280.7	1,059.5	1,017.1	42.35	25.014	
10,800.0	9,775.3	9,776.6	8,953.3	23.5	31.0	-40.91	-671.8	1,280.2	1,059.5	1,016.8	42.70	24.813	
10,830.0	9,775.3	9,806.6	8,953.3	23.6	31.1	-40.92	-701.8	1,279.9	1,059.5	1,016.6	42.87	24.716	
10,900.0	9,775.4	9,876.6	8,953.4	23.7	31.2	-40.92	-771.8	1,279.4	1,059.5	1,016.2	43.27	24.486	
10,925.0	9,775.4	9,901.6	8,953.4	23.8	31.2	-40.92	-796.8	1,279.2	1,059.5	1,016.1	43.42	24.401	
11,000.0	9,775.4	9,976.6	8,953.4	23.9	31.4	-40.92	-871.8	1,278.5	1,059.5	1,015.6	43.89	24.141	
11,020.0	9,775.4	9,996.6	8,953.5	24.0	31.4	-40.92	-891.8	1,278.4	1,059.5	1,015.5	44.02	24.070	
11,100.0	9,775.5	10,076.6	8,953.5	24.1	31.6	-40.92	-971.8	1,277.7	1,059.5	1,015.0	44.55	23.781	
11,115.0	9,775.5	10,091.6	8,953.5	24.2	31.7	-40.92	-986.8	1,277.6	1,059.5	1,014.9	44.66	23.726	
11,200.0	9,775.5	10,176.6	8,953.6	24.4	31.9	-40.93	-1,071.8	1,276.9	1,059.5	1,014.3	45.26	23.409	
11,210.0	9,775.5	10,186.6	8,953.6	24.4	31.9	-40.93	-1,081.8	1,276.8	1,059.6	1,014.2	45.34	23.371	
11,300.0	9,775.6	10,276.6	8,953.7	24.6	32.1	-40.93	-1,171.8	1,276.1	1,059.6	1,013.6	46.01	23.028	
11,305.0	9,775.6	10,281.6	8,953.7	24.6	32.1	-40.93	-1,176.8	1,276.0	1,059.6	1,013.5	46.05	23.008	
11,400.0	9,775.6	10,376.6	8,953.8	24.9	32.4	-40.93	-1,271.8	1,275.2	1,059.6	1,012.8	46.80	22.640	
11,495.0	9,775.7	10,471.6	8,953.8	25.2	32.6	-40.94	-1,366.8	1,274.4	1,059.6	1,012.0	47.59	22.266	
11,500.0	9,775.7	10,476.6	8,953.8	25.2	32.6	-40.94	-1,371.8	1,274.4	1,059.6	1,012.0	47.63	22.247	
11,590.0	9,775.7	10,566.6	8,953.9	25.5	32.9	-40.94	-1,461.8	1,273.7	1,059.6	1,011.2	48.41	21.890	
11,600.0	9,775.7	10,576.6	8,953.9	25.5	32.9	-40.94	-1,471.8	1,273.6	1,059.6	1,011.1	48.49	21.851	
11,685.0	9,775.8	10,661.6	8,954.0	25.8	33.2	-40.94	-1,556.8	1,272.9	1,059.6	1,010.4	49.25	21.514	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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
11,700.0	9,775.8	10,676.6	8,954.0	25.8	33.2	-40.94	-1,571.8	1,272.7	1,059.6	1,010.2	49.39	21.455
11,780.0	9,775.8	10,756.6	8,954.1	26.1	33.5	-40.95	-1,651.8	1,272.1	1,059.6	1,009.5	50.13	21.137
11,800.0	9,775.8	10,776.6	8,954.1	26.2	33.6	-40.95	-1,671.8	1,271.9	1,059.7	1,009.3	50.32	21.059
11,875.0	9,775.9	10,851.6	8,954.1	26.5	33.8	-40.95	-1,746.8	1,271.3	1,059.7	1,008.6	51.04	20.763
11,900.0	9,775.9	10,876.6	8,954.2	26.6	33.9	-40.95	-1,771.8	1,271.1	1,059.7	1,008.4	51.28	20.665
11,970.0	9,775.9	10,946.6	8,954.2	26.8	34.1	-40.95	-1,841.8	1,270.5	1,059.7	1,007.7	51.97	20.391
12,000.0	9,776.0	10,976.6	8,954.2	26.9	34.2	-40.95	-1,871.8	1,270.3	1,059.7	1,007.4	52.27	20.275
12,065.0	9,776.0	11,041.6	8,954.3	27.2	34.5	-40.96	-1,936.8	1,269.7	1,059.7	1,006.8	52.92	20.023
12,100.0	9,776.0	11,076.6	8,954.3	27.4	34.6	-40.96	-1,971.8	1,269.4	1,059.7	1,006.4	53.28	19.889
12,160.0	9,776.0	11,136.6	8,954.4	27.6	34.8	-40.96	-2,031.8	1,268.9	1,059.7	1,005.8	53.90	19.660
12,200.0	9,776.1	11,176.6	8,954.4	27.8	34.9	-40.96	-2,071.8	1,268.6	1,059.7	1,005.4	54.32	19.509
12,255.0	9,776.1	11,231.6	8,954.4	28.0	35.2	-40.96	-2,126.8	1,268.1	1,059.7	1,004.8	54.90	19.301
12,300.0	9,776.1	11,276.6	8,954.5	28.2	35.3	-40.96	-2,171.8	1,267.8	1,059.7	1,004.4	55.38	19.134
12,350.0	9,776.1	11,326.6	8,954.5	28.4	35.5	-40.97	-2,221.8	1,267.4	1,059.7	1,003.8	55.93	18.949
12,400.0	9,776.2	11,376.6	8,954.6	28.7	35.7	-40.97	-2,271.7	1,266.9	1,059.8	1,003.3	56.47	18.766
12,445.0	9,776.2	11,421.6	8,954.6	28.9	35.9	-40.97	-2,316.7	1,266.6	1,059.8	1,002.8	56.97	18.602
12,500.0	9,776.2	11,476.6	8,954.6	29.2	36.1	-40.97	-2,371.7	1,266.1	1,059.8	1,002.2	57.58	18.405
12,540.0	9,776.2	11,516.6	8,954.7	29.3	36.3	-40.97	-2,411.7	1,265.8	1,059.8	1,001.8	58.03	18.263
12,600.0	9,776.3	11,576.6	8,954.7	29.6	36.5	-40.97	-2,471.7	1,265.3	1,059.8	1,001.1	58.71	18.052
12,635.0	9,776.3	11,611.6	8,954.8	29.8	36.7	-40.98	-2,506.7	1,265.0	1,059.8	1,000.7	59.11	17.930
12,700.0	9,776.3	11,676.6	8,954.8	30.1	37.0	-40.98	-2,571.7	1,264.5	1,059.8	1,000.0	59.86	17.706
12,730.0	9,776.3	11,706.6	8,954.8	30.3	37.1	-40.98	-2,601.7	1,264.2	1,059.8	999.6	60.20	17.604
12,800.0	9,776.4	11,776.6	8,954.9	30.7	37.4	-40.98	-2,671.7	1,263.6	1,059.8	998.8	61.02	17.368
12,825.0	9,776.4	11,801.6	8,954.9	30.8	37.5	-40.98	-2,696.7	1,263.4	1,059.8	998.5	61.32	17.285
12,900.0	9,776.4	11,876.6	8,955.0	31.2	37.8	-40.98	-2,771.7	1,262.8	1,059.8	997.6	62.20	17.038
12,920.0	9,776.4	11,896.6	8,955.0	31.3	37.9	-40.99	-2,791.7	1,262.6	1,059.8	997.4	62.44	16.973
13,000.0	9,776.5	11,976.6	8,955.0	31.7	38.3	-40.99	-2,871.7	1,262.0	1,059.9	996.5	63.40	16.716
13,015.0	9,776.5	11,991.6	8,955.1	31.8	38.4	-40.99	-2,886.7	1,261.9	1,059.9	996.3	63.58	16.669
13,100.0	9,776.5	12,076.6	8,955.1	32.3	38.8	-40.99	-2,971.7	1,261.2	1,059.9	995.3	64.62	16.402
13,110.0	9,776.5	12,086.6	8,955.1	32.3	38.8	-40.99	-2,981.7	1,261.1	1,059.9	995.1	64.74	16.371
13,200.0	9,776.6	12,176.6	8,955.2	32.8	39.2	-40.99	-3,071.7	1,260.3	1,059.9	994.1	65.85	16.097
13,205.0	9,776.6	12,181.6	8,955.2	32.9	39.3	-40.99	-3,076.7	1,260.3	1,059.9	994.0	65.91	16.082
13,300.0	9,776.6	12,276.6	8,955.3	33.4	39.7	-41.00	-3,171.7	1,259.5	1,059.9	992.8	67.09	15.799
13,395.0	9,776.7	12,371.6	8,955.4	34.0	40.2	-41.00	-3,266.7	1,258.7	1,059.9	991.7	68.28	15.524
13,400.0	9,776.7	12,376.6	8,955.4	34.0	40.2	-41.00	-3,271.7	1,258.7	1,059.9	991.6	68.34	15.509
13,490.0	9,776.7	12,466.6	8,955.4	34.5	40.7	-41.00	-3,361.7	1,257.9	1,059.9	990.5	69.48	15.255
13,500.0	9,776.7	12,476.6	8,955.5	34.6	40.7	-41.00	-3,371.7	1,257.8	1,059.9	990.3	69.61	15.227
13,585.0	9,776.8	12,561.6	8,955.5	35.1	41.1	-41.01	-3,456.7	1,257.1	1,060.0	989.3	70.69	14.994
13,600.0	9,776.8	12,576.6	8,955.5	35.2	41.2	-41.01	-3,471.7	1,257.0	1,060.0	989.1	70.89	14.953
13,680.0	9,776.8	12,656.6	8,955.6	35.7	41.6	-41.01	-3,551.7	1,256.4	1,060.0	988.1	71.92	14.739
13,700.0	9,776.9	12,676.6	8,955.6	35.8	41.7	-41.01	-3,571.7	1,256.2	1,060.0	987.8	72.17	14.686
13,775.0	9,776.9	12,751.6	8,955.7	36.2	42.1	-41.01	-3,646.7	1,255.6	1,060.0	986.8	73.15	14.491
13,800.0	9,776.9	12,776.6	8,955.7	36.4	42.2	-41.02	-3,671.7	1,255.4	1,060.0	986.5	73.47	14.427
13,870.0	9,776.9	12,846.6	8,955.7	36.8	42.6	-41.02	-3,741.7	1,254.8	1,060.0	985.6	74.39	14.250
13,900.0	9,777.0	12,876.6	8,955.8	37.0	42.8	-41.02	-3,771.7	1,254.5	1,060.0	985.2	74.78	14.175
13,965.0	9,777.0	12,941.6	8,955.8	37.4	43.1	-41.02	-3,836.7	1,254.0	1,060.0	984.4	75.64	14.015
14,000.0	9,777.0	12,976.6	8,955.9	37.6	43.3	-41.02	-3,871.7	1,253.7	1,060.0	983.9	76.10	13.930
14,060.0	9,777.0	13,036.6	8,955.9	38.0	43.6	-41.02	-3,931.7	1,253.2	1,060.0	983.2	76.89	13.786
14,100.0	9,777.1	13,076.6	8,955.9	38.3	43.9	-41.03	-3,971.7	1,252.9	1,060.1	982.6	77.43	13.691
14,155.0	9,777.1	13,131.6	8,956.0	38.6	44.2	-41.03	-4,026.7	1,252.4	1,060.1	981.9	78.16	13.563
14,200.0	9,777.1	13,176.6	8,956.0	38.9	44.4	-41.03	-4,071.7	1,252.1	1,060.1	981.3	78.76	13.459

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1												Offset Site Error:	0.0 usft	
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8530-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft	
Rule Assigned:												Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
14,250.0	9,777.1	13,226.6	8,956.1	39.2	44.7	-41.03	-41.03	-4,121.7	1,251.6	1,060.1	980.6	79.43	13.346	
14,300.0	9,777.2	13,276.6	8,956.1	39.5	45.0	-41.03	-41.03	-4,171.7	1,251.2	1,060.1	980.0	80.10	13.234	
14,345.0	9,777.2	13,321.6	8,956.1	39.8	45.2	-41.03	-41.03	-4,216.7	1,250.8	1,060.1	979.4	80.71	13.135	
14,400.0	9,777.2	13,376.6	8,956.2	40.2	45.5	-41.04	-41.04	-4,271.7	1,250.4	1,060.1	978.7	81.45	13.015	
14,440.0	9,777.2	13,416.6	8,956.2	40.4	45.7	-41.04	-41.04	-4,311.7	1,250.1	1,060.1	978.1	82.00	12.929	
14,500.0	9,777.3	13,476.6	8,956.3	40.8	46.1	-41.04	-41.04	-4,371.7	1,249.6	1,060.1	977.3	82.81	12.802	
14,535.0	9,777.3	13,511.6	8,956.3	41.1	46.3	-41.04	-41.04	-4,406.7	1,249.3	1,060.1	976.8	83.29	12.729	
14,600.0	9,777.3	13,576.6	8,956.3	41.5	46.7	-41.04	-41.04	-4,471.7	1,248.7	1,060.1	976.0	84.17	12.594	
14,630.0	9,777.3	13,606.6	8,956.4	41.7	46.8	-41.04	-41.04	-4,501.7	1,248.5	1,060.1	975.6	84.59	12.533	
14,700.0	9,777.4	13,676.6	8,956.4	42.2	47.2	-41.05	-41.05	-4,571.7	1,247.9	1,060.2	974.6	85.55	12.393	
14,725.0	9,777.4	13,701.6	8,956.4	42.3	47.4	-41.05	-41.05	-4,596.7	1,247.7	1,060.2	974.3	85.89	12.343	
14,800.0	9,777.4	13,776.6	8,956.5	42.8	47.8	-41.05	-41.05	-4,671.7	1,247.1	1,060.2	973.3	86.92	12.197	
14,820.0	9,777.4	13,796.6	8,956.5	42.9	47.9	-41.05	-41.05	-4,691.7	1,246.9	1,060.2	973.0	87.20	12.158	
14,900.0	9,777.5	13,876.6	8,956.6	43.5	48.4	-41.05	-41.05	-4,771.7	1,246.3	1,060.2	971.9	88.30	12.006	
14,915.0	9,777.5	13,891.6	8,956.6	43.6	48.5	-41.05	-41.05	-4,786.7	1,246.1	1,060.2	971.7	88.51	11.978	
15,000.0	9,777.5	13,976.6	8,956.7	44.2	49.0	-41.06	-41.06	-4,871.7	1,245.4	1,060.2	970.5	89.69	11.820	
15,010.0	9,777.5	13,986.6	8,956.7	44.2	49.1	-41.06	-41.06	-4,881.7	1,245.3	1,060.2	970.4	89.83	11.802	
15,100.0	9,777.6	14,076.6	8,956.7	44.8	49.6	-41.06	-41.06	-4,971.7	1,244.6	1,060.2	969.1	91.09	11.640	
15,105.0	9,777.6	14,081.6	8,956.7	44.9	49.6	-41.06	-41.06	-4,976.7	1,244.6	1,060.2	969.1	91.16	11.631	
15,200.0	9,777.6	14,176.6	8,956.8	45.5	50.2	-41.06	-41.06	-5,071.7	1,243.8	1,060.2	967.8	92.48	11.464	
15,295.0	9,777.7	14,271.6	8,956.9	46.2	50.8	-41.07	-41.07	-5,166.6	1,243.0	1,060.3	966.4	93.82	11.301	
15,300.0	9,777.7	14,276.6	8,956.9	46.2	50.8	-41.07	-41.07	-5,171.6	1,242.9	1,060.3	966.4	93.89	11.293	
15,390.0	9,777.7	14,366.6	8,957.0	46.8	51.4	-41.07	-41.07	-5,261.6	1,242.2	1,060.3	965.1	95.16	11.143	
15,400.0	9,777.7	14,376.6	8,957.0	46.9	51.4	-41.07	-41.07	-5,271.6	1,242.1	1,060.3	965.0	95.30	11.126	
15,485.0	9,777.8	14,461.6	8,957.0	47.5	51.9	-41.07	-41.07	-5,356.6	1,241.4	1,060.3	963.8	96.50	10.988	
15,500.0	9,777.8	14,476.6	8,957.1	47.6	52.0	-41.07	-41.07	-5,371.6	1,241.3	1,060.3	963.6	96.71	10.964	
15,580.0	9,777.8	14,556.6	8,957.1	48.1	52.5	-41.07	-41.07	-5,451.6	1,240.6	1,060.3	962.5	97.84	10.837	
15,600.0	9,777.9	14,576.6	8,957.1	48.2	52.7	-41.08	-41.08	-5,471.6	1,240.5	1,060.3	962.2	98.13	10.806	
15,675.0	9,777.9	14,651.6	8,957.2	48.8	53.1	-41.08	-41.08	-5,546.6	1,239.8	1,060.3	961.1	99.19	10.690	
15,700.0	9,777.9	14,676.6	8,957.2	48.9	53.3	-41.08	-41.08	-5,571.6	1,239.6	1,060.3	960.8	99.55	10.652	
15,770.0	9,777.9	14,746.6	8,957.3	49.4	53.7	-41.08	-41.08	-5,641.6	1,239.1	1,060.3	959.8	100.54	10.546	
15,800.0	9,778.0	14,776.6	8,957.3	49.6	53.9	-41.08	-41.08	-5,671.6	1,238.8	1,060.3	959.4	100.97	10.502	
15,865.0	9,778.0	14,841.6	8,957.4	50.1	54.3	-41.08	-41.08	-5,736.6	1,238.3	1,060.4	958.5	101.90	10.406	
15,900.0	9,778.0	14,876.6	8,957.4	50.3	54.5	-41.09	-41.09	-5,771.6	1,238.0	1,060.4	958.0	102.40	10.355	
15,960.0	9,778.0	14,936.6	8,957.4	50.8	54.9	-41.09	-41.09	-5,831.6	1,237.5	1,060.4	957.1	103.26	10.269	
16,000.0	9,778.1	14,976.6	8,957.5	51.0	55.2	-41.09	-41.09	-5,871.6	1,237.2	1,060.4	956.6	103.83	10.213	
16,055.0	9,778.1	15,031.6	8,957.5	51.4	55.5	-41.09	-41.09	-5,926.6	1,236.7	1,060.4	955.8	104.62	10.136	
16,100.0	9,778.1	15,076.6	8,957.5	51.7	55.8	-41.09	-41.09	-5,971.6	1,236.3	1,060.4	955.1	105.27	10.074	
16,150.0	9,778.1	15,126.6	8,957.6	52.1	56.1	-41.09	-41.09	-6,021.6	1,235.9	1,060.4	954.4	105.99	10.005	
16,200.0	9,778.2	15,176.6	8,957.6	52.4	56.4	-41.10	-41.10	-6,071.6	1,235.5	1,060.4	953.7	106.71	9.938	
16,245.0	9,778.2	15,221.6	8,957.7	52.8	56.7	-41.10	-41.10	-6,116.6	1,235.1	1,060.4	953.1	107.35	9.878	
16,300.0	9,778.2	15,276.6	8,957.7	53.1	57.1	-41.10	-41.10	-6,171.6	1,234.7	1,060.4	952.3	108.15	9.806	
16,340.0	9,778.2	15,316.6	8,957.7	53.4	57.3	-41.10	-41.10	-6,211.6	1,234.3	1,060.4	951.7	108.72	9.753	
16,400.0	9,778.3	15,376.6	8,957.8	53.8	57.7	-41.10	-41.10	-6,271.6	1,233.8	1,060.5	950.9	109.59	9.676	
16,435.0	9,778.3	15,411.6	8,957.8	54.1	58.0	-41.10	-41.10	-6,306.6	1,233.6	1,060.5	950.4	110.10	9.632	
16,500.0	9,778.3	15,476.6	8,957.9	54.6	58.4	-41.11	-41.11	-6,371.6	1,233.0	1,060.5	949.4	111.04	9.550	
16,530.0	9,778.3	15,506.6	8,957.9	54.8	58.6	-41.11	-41.11	-6,401.6	1,232.8	1,060.5	949.0	111.47	9.513	
16,600.0	9,778.4	15,576.6	8,957.9	55.3	59.0	-41.11	-41.11	-6,471.6	1,232.2	1,060.5	948.0	112.49	9.427	
16,625.0	9,778.4	15,601.6	8,958.0	55.4	59.2	-41.11	-41.11	-6,496.6	1,232.0	1,060.5	947.6	112.85	9.397	
16,700.0	9,778.4	15,676.6	8,958.0	56.0	59.7	-41.11	-41.11	-6,571.6	1,231.4	1,060.5	946.6	113.94	9.307	
16,720.0	9,778.4	15,696.6	8,958.0	56.1	59.8	-41.11	-41.11	-6,591.6	1,231.2	1,060.5	946.3	114.23	9.284	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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								
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	
16,800.0	9,778.5	15,776.6	8,958.1	56.7	60.3	-41.12	-6,671.6	1,230.5	1,060.5	945.1	115.40	9.190		
16,815.0	9,778.5	15,791.6	8,958.1	56.8	60.4	-41.12	-6,686.6	1,230.4	1,060.5	944.9	115.62	9.173		
16,900.0	9,778.5	15,876.6	8,958.2	57.4	61.0	-41.12	-6,771.6	1,229.7	1,060.5	943.7	116.86	9.075		
16,910.0	9,778.5	15,886.6	8,958.2	57.5	61.1	-41.12	-6,781.6	1,229.6	1,060.5	943.5	117.00	9.064		
17,000.0	9,778.6	15,976.6	8,958.3	58.1	61.7	-41.12	-6,871.6	1,228.9	1,060.6	942.2	118.32	8.964		
17,005.0	9,778.6	15,981.6	8,958.3	58.2	61.7	-41.12	-6,876.6	1,228.8	1,060.6	942.2	118.39	8.958		
17,100.0	9,778.6	16,076.6	8,958.3	58.8	62.3	-41.13	-6,971.6	1,228.0	1,060.6	940.8	119.78	8.854		
17,195.0	9,778.7	16,171.6	8,958.4	59.5	63.0	-41.13	-7,066.6	1,227.3	1,060.6	939.4	121.17	8.753		
17,200.0	9,778.7	16,176.6	8,958.4	59.6	63.0	-41.13	-7,071.6	1,227.2	1,060.6	939.3	121.25	8.747		
17,290.0	9,778.7	16,266.6	8,958.5	60.2	63.6	-41.13	-7,161.6	1,226.5	1,060.6	938.0	122.57	8.653		
17,300.0	9,778.7	16,276.6	8,958.5	60.3	63.7	-41.13	-7,171.6	1,226.4	1,060.6	937.9	122.71	8.643		
17,385.0	9,778.8	16,361.6	8,958.6	60.9	64.2	-41.14	-7,256.6	1,225.7	1,060.6	936.7	123.96	8.556		
17,400.0	9,778.8	16,376.6	8,958.6	61.0	64.3	-41.14	-7,271.6	1,225.6	1,060.6	936.4	124.18	8.541		
17,480.0	9,778.8	16,456.6	8,958.7	61.6	64.9	-41.14	-7,351.6	1,224.9	1,060.6	935.3	125.36	8.461		
17,500.0	9,778.9	16,476.6	8,958.7	61.7	65.0	-41.14	-7,371.6	1,224.7	1,060.6	935.0	125.66	8.441		
17,575.0	9,778.9	16,551.6	8,958.7	62.3	65.5	-41.14	-7,446.6	1,224.1	1,060.7	933.9	126.76	8.367		
17,600.0	9,778.9	16,576.6	8,958.7	62.4	65.7	-41.14	-7,471.6	1,223.9	1,060.7	933.5	127.13	8.343		
17,670.0	9,778.9	16,646.6	8,958.8	62.9	66.2	-41.15	-7,541.6	1,223.3	1,060.7	932.5	128.16	8.276		
17,700.0	9,779.0	16,676.6	8,958.8	63.2	66.4	-41.15	-7,571.6	1,223.1	1,060.7	932.1	128.61	8.248		
17,765.0	9,779.0	16,741.6	8,958.9	63.6	66.8	-41.15	-7,636.6	1,222.5	1,060.7	931.1	129.57	8.187		
17,800.0	9,779.0	16,776.6	8,958.9	63.9	67.0	-41.15	-7,671.6	1,222.3	1,060.7	930.6	130.08	8.154		
17,860.0	9,779.0	16,836.6	8,959.0	64.3	67.4	-41.15	-7,731.6	1,221.8	1,060.7	929.7	130.97	8.099		
17,900.0	9,779.1	16,876.6	8,959.0	64.6	67.7	-41.15	-7,771.6	1,221.4	1,060.7	929.2	131.56	8.063		
17,955.0	9,779.1	16,931.6	8,959.0	65.0	68.1	-41.15	-7,826.6	1,221.0	1,060.7	928.4	132.38	8.013		
18,000.0	9,779.1	16,976.6	8,959.1	65.3	68.4	-41.16	-7,871.6	1,220.6	1,060.7	927.7	133.04	7.973		
18,050.0	9,779.1	17,026.6	8,959.1	65.7	68.7	-41.16	-7,921.6	1,220.2	1,060.7	927.0	133.78	7.929		
18,100.0	9,779.2	17,076.6	8,959.2	66.1	69.1	-41.16	-7,971.6	1,219.8	1,060.8	926.2	134.52	7.885		
18,145.0	9,779.2	17,121.6	8,959.2	66.4	69.4	-41.16	-8,016.5	1,219.4	1,060.8	925.6	135.19	7.846		
18,200.0	9,779.2	17,176.6	8,959.2	66.8	69.8	-41.16	-8,071.5	1,218.9	1,060.8	924.8	136.01	7.799		
18,240.0	9,779.2	17,216.6	8,959.3	67.1	70.0	-41.16	-8,111.5	1,218.6	1,060.8	924.2	136.60	7.765		
18,300.0	9,779.3	17,276.6	8,959.3	67.5	70.5	-41.17	-8,171.5	1,218.1	1,060.8	923.3	137.49	7.715		
18,335.0	9,779.3	17,311.6	8,959.3	67.8	70.7	-41.17	-8,206.5	1,217.8	1,060.8	922.8	138.01	7.686		
18,400.0	9,779.3	17,376.6	8,959.4	68.3	71.1	-41.17	-8,271.5	1,217.3	1,060.8	921.8	138.98	7.633		
18,430.0	9,779.3	17,406.6	8,959.4	68.5	71.4	-41.17	-8,301.5	1,217.0	1,060.8	921.4	139.43	7.608		
18,500.0	9,779.4	17,476.6	8,959.5	69.0	71.8	-41.17	-8,371.5	1,216.5	1,060.8	920.4	140.47	7.552		
18,525.0	9,779.4	17,501.6	8,959.5	69.2	72.0	-41.17	-8,396.5	1,216.3	1,060.8	920.0	140.84	7.532		
18,600.0	9,779.4	17,576.6	8,959.6	69.7	72.5	-41.18	-8,471.5	1,215.6	1,060.8	918.9	141.96	7.473		
18,620.0	9,779.4	17,596.6	8,959.6	69.9	72.7	-41.18	-8,491.5	1,215.5	1,060.8	918.6	142.26	7.457		
18,700.0	9,779.5	17,676.6	8,959.6	70.4	73.2	-41.18	-8,571.5	1,214.8	1,060.9	917.4	143.45	7.395		
18,715.0	9,779.5	17,691.6	8,959.6	70.6	73.3	-41.18	-8,586.5	1,214.7	1,060.9	917.2	143.67	7.384		
18,800.0	9,779.5	17,776.6	8,959.7	71.2	73.9	-41.18	-8,671.5	1,214.0	1,060.9	915.9	144.94	7.319		
18,810.0	9,779.5	17,786.6	8,959.7	71.3	74.0	-41.18	-8,681.5	1,213.9	1,060.9	915.8	145.09	7.312		
18,900.0	9,779.6	17,876.6	8,959.8	71.9	74.6	-41.19	-8,771.5	1,213.2	1,060.9	914.5	146.44	7.245		
18,905.0	9,779.6	17,881.6	8,959.8	72.0	74.6	-41.19	-8,776.5	1,213.1	1,060.9	914.4	146.51	7.241		
19,000.0	9,779.6	17,976.6	8,959.9	72.6	75.3	-41.19	-8,871.5	1,212.3	1,060.9	913.0	147.93	7.172		
19,095.0	9,779.7	18,071.6	8,960.0	73.3	76.0	-41.19	-8,966.5	1,211.5	1,060.9	911.6	149.35	7.104		
19,100.0	9,779.7	18,076.6	8,960.0	73.4	76.0	-41.19	-8,971.5	1,211.5	1,060.9	911.5	149.43	7.100		
19,190.0	9,779.7	18,166.6	8,960.0	74.0	76.6	-41.20	-9,061.5	1,210.8	1,060.9	910.2	150.77	7.037		
19,200.0	9,779.8	18,176.6	8,960.0	74.1	76.7	-41.20	-9,071.5	1,210.7	1,060.9	910.0	150.92	7.030		
19,285.0	9,779.8	18,261.6	8,960.1	74.7	77.3	-41.20	-9,156.5	1,210.0	1,061.0	908.8	152.20	6.971		
19,300.0	9,779.8	18,276.6	8,960.1	74.9	77.4	-41.20	-9,171.5	1,209.8	1,061.0	908.5	152.42	6.961		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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							
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
19,380.0	9,779.8	18,356.6	8,960.2	75.4	78.0	-41.20	-9,251.5	1,209.2	1,061.0	907.4	153.62	6.906	
19,400.0	9,779.9	18,376.6	8,960.2	75.6	78.1	-41.20	-9,271.5	1,209.0	1,061.0	907.1	153.92	6.893	
19,475.0	9,779.9	18,451.6	8,960.3	76.1	78.6	-41.21	-9,346.5	1,208.4	1,061.0	905.9	155.05	6.843	
19,500.0	9,779.9	18,476.6	8,960.3	76.3	78.8	-41.21	-9,371.5	1,208.2	1,061.0	905.6	155.42	6.827	
19,570.0	9,779.9	18,546.6	8,960.3	76.8	79.3	-41.21	-9,441.5	1,207.6	1,061.0	904.5	156.47	6.781	
19,600.0	9,780.0	18,576.6	8,960.4	77.1	79.5	-41.21	-9,471.5	1,207.4	1,061.0	904.1	156.92	6.761	
19,665.0	9,780.0	18,641.6	8,960.4	77.5	80.0	-41.21	-9,536.5	1,206.8	1,061.0	903.1	157.90	6.720	
19,700.0	9,780.0	18,676.6	8,960.4	77.8	80.2	-41.21	-9,571.5	1,206.5	1,061.0	902.6	158.42	6.697	
19,760.0	9,780.0	18,736.6	8,960.5	78.3	80.7	-41.22	-9,631.5	1,206.0	1,061.0	901.7	159.33	6.660	
19,800.0	9,780.1	18,776.6	8,960.5	78.5	80.9	-41.22	-9,671.5	1,205.7	1,061.1	901.1	159.93	6.635	
19,855.0	9,780.1	18,831.6	8,960.6	79.0	81.3	-41.22	-9,726.5	1,205.2	1,061.1	900.3	160.76	6.600	
19,900.0	9,780.1	18,876.6	8,960.6	79.3	81.6	-41.22	-9,771.5	1,204.9	1,061.1	899.6	161.43	6.573	
19,950.0	9,780.1	18,926.6	8,960.6	79.7	82.0	-41.22	-9,821.5	1,204.5	1,061.1	898.9	162.18	6.542	
20,000.0	9,780.2	18,976.6	8,960.7	80.0	82.4	-41.22	-9,871.5	1,204.0	1,061.1	898.1	162.94	6.512	
20,045.0	9,780.2	19,021.6	8,960.7	80.4	82.7	-41.22	-9,916.5	1,203.7	1,061.1	897.5	163.61	6.485	
20,100.0	9,780.2	19,076.6	8,960.8	80.8	83.1	-41.23	-9,971.5	1,203.2	1,061.1	896.7	164.44	6.453	
20,140.0	9,780.2	19,116.6	8,960.8	81.1	83.4	-41.23	-10,011.5	1,202.9	1,061.1	896.1	165.05	6.429	
20,200.0	9,780.3	19,176.6	8,960.8	81.5	83.8	-41.23	-10,071.5	1,202.4	1,061.1	895.2	165.95	6.394	
20,235.0	9,780.3	19,211.6	8,960.9	81.8	84.0	-41.23	-10,106.5	1,202.1	1,061.1	894.6	166.48	6.374	
20,300.0	9,780.3	19,276.6	8,960.9	82.3	84.5	-41.23	-10,171.5	1,201.6	1,061.1	893.7	167.46	6.337	
20,330.0	9,780.3	19,306.6	8,960.9	82.5	84.7	-41.23	-10,201.5	1,201.3	1,061.1	893.2	167.91	6.320	
20,400.0	9,780.4	19,376.6	8,961.0	83.0	85.2	-41.24	-10,271.5	1,200.7	1,061.2	892.2	168.97	6.280	
20,425.0	9,780.4	19,401.6	8,961.0	83.2	85.4	-41.24	-10,296.5	1,200.5	1,061.2	891.8	169.34	6.266	
20,500.0	9,780.4	19,476.6	8,961.1	83.7	85.9	-41.24	-10,371.5	1,199.9	1,061.2	890.7	170.48	6.225	
20,520.0	9,780.4	19,496.6	8,961.1	83.9	86.1	-41.24	-10,391.5	1,199.7	1,061.2	890.4	170.78	6.214	
20,600.0	9,780.5	19,576.6	8,961.2	84.5	86.6	-41.24	-10,471.5	1,199.1	1,061.2	889.2	171.99	6.170	
20,615.0	9,780.5	19,591.6	8,961.2	84.6	86.7	-41.24	-10,486.5	1,199.0	1,061.2	889.0	172.21	6.162	
20,700.0	9,780.5	19,676.6	8,961.2	85.2	87.3	-41.25	-10,571.5	1,198.3	1,061.2	887.7	173.50	6.117	
20,710.0	9,780.5	19,686.6	8,961.3	85.3	87.4	-41.25	-10,581.5	1,198.2	1,061.2	887.6	173.65	6.111	
20,800.0	9,780.6	19,776.6	8,961.3	86.0	88.1	-41.25	-10,671.5	1,197.4	1,061.2	886.2	175.01	6.064	
20,805.0	9,780.6	19,781.6	8,961.3	86.0	88.1	-41.25	-10,676.5	1,197.4	1,061.2	886.1	175.08	6.061	
20,900.0	9,780.6	19,876.6	8,961.4	86.7	88.8	-41.25	-10,771.5	1,196.6	1,061.2	884.7	176.52	6.012	
20,995.0	9,780.7	19,971.6	8,961.5	87.4	89.5	-41.26	-10,866.4	1,195.8	1,061.3	883.3	177.96	5.964	
21,000.0	9,780.7	19,976.6	8,961.5	87.5	89.5	-41.26	-10,871.4	1,195.8	1,061.3	883.2	178.03	5.961	
21,090.0	9,780.7	20,066.6	8,961.6	88.1	90.1	-41.26	-10,961.4	1,195.0	1,061.3	881.9	179.40	5.916	
21,100.0	9,780.8	20,076.6	8,961.6	88.2	90.2	-41.26	-10,971.4	1,194.9	1,061.3	881.7	179.55	5.911	
21,185.0	9,780.8	20,161.6	8,961.6	88.8	90.8	-41.26	-11,056.4	1,194.2	1,061.3	880.5	180.83	5.869	
21,200.0	9,780.8	20,176.6	8,961.6	88.9	90.9	-41.26	-11,071.4	1,194.1	1,061.3	880.2	181.06	5.862	
21,280.0	9,780.8	20,256.6	8,961.7	89.5	91.5	-41.27	-11,151.4	1,193.5	1,061.3	879.0	182.27	5.823	
21,300.0	9,780.9	20,276.6	8,961.7	89.7	91.7	-41.27	-11,171.4	1,193.3	1,061.3	878.7	182.58	5.813	
21,375.0	9,780.9	20,351.6	8,961.8	90.2	92.2	-41.27	-11,246.4	1,192.7	1,061.3	877.6	183.71	5.777	
21,400.0	9,780.9	20,376.6	8,961.8	90.4	92.4	-41.27	-11,271.4	1,192.5	1,061.3	877.2	184.09	5.765	
21,470.0	9,780.9	20,446.6	8,961.9	91.0	92.9	-41.27	-11,341.4	1,191.9	1,061.3	876.2	185.15	5.732	
21,500.0	9,781.0	20,476.6	8,961.9	91.2	93.1	-41.27	-11,371.4	1,191.6	1,061.4	875.7	185.61	5.718	
21,565.0	9,781.0	20,541.6	8,961.9	91.7	93.6	-41.28	-11,436.4	1,191.1	1,061.4	874.8	186.59	5.688	
21,600.0	9,781.0	20,576.6	8,962.0	91.9	93.8	-41.28	-11,471.4	1,190.8	1,061.4	874.2	187.13	5.672	
21,660.0	9,781.0	20,636.6	8,962.0	92.4	94.3	-41.28	-11,531.4	1,190.3	1,061.4	873.3	188.04	5.645	
21,700.0	9,781.1	20,676.6	8,962.0	92.7	94.5	-41.28	-11,571.4	1,190.0	1,061.4	872.7	188.64	5.626	
21,755.0	9,781.1	20,731.6	8,962.1	93.1	94.9	-41.28	-11,626.4	1,189.5	1,061.4	871.9	189.48	5.602	
21,800.0	9,781.1	20,776.6	8,962.1	93.4	95.3	-41.28	-11,671.4	1,189.2	1,061.4	871.2	190.16	5.582	
21,850.0	9,781.1	20,826.6	8,962.2	93.8	95.6	-41.29	-11,721.4	1,188.7	1,061.4	870.5	190.92	5.559	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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)	Separation (usft)	Factor		
21,900.0	9,781.2	20,876.6	8,962.2	94.2	96.0	-41.29	-11,771.4	1,188.3	1,061.4	869.7	191.68	5.537		
21,945.0	9,781.2	20,921.6	8,962.2	94.5	96.3	-41.29	-11,816.4	1,188.0	1,061.4	869.1	192.36	5.518		
22,000.0	9,781.2	20,976.6	8,962.3	94.9	96.7	-41.29	-11,871.4	1,187.5	1,061.4	868.2	193.20	5.494		
22,040.0	9,781.2	21,016.6	8,962.3	95.2	97.0	-41.29	-11,911.4	1,187.2	1,061.4	867.6	193.81	5.477		
22,100.0	9,781.3	21,076.6	8,962.4	95.7	97.4	-41.29	-11,971.4	1,186.7	1,061.5	866.7	194.72	5.451		
22,135.0	9,781.3	21,111.6	8,962.4	95.9	97.7	-41.29	-12,006.4	1,186.4	1,061.5	866.2	195.25	5.436		
22,200.0	9,781.3	21,176.6	8,962.5	96.4	98.2	-41.30	-12,071.4	1,185.8	1,061.5	865.2	196.24	5.409		
22,230.0	9,781.3	21,206.6	8,962.5	96.6	98.4	-41.30	-12,101.4	1,185.6	1,061.5	864.8	196.69	5.397		
22,300.0	9,781.4	21,276.6	8,962.5	97.2	98.9	-41.30	-12,171.4	1,185.0	1,061.5	863.7	197.76	5.368		
22,325.0	9,781.4	21,301.6	8,962.6	97.3	99.1	-41.30	-12,196.4	1,184.8	1,061.5	863.4	198.14	5.357		
22,400.0	9,781.4	21,376.6	8,962.6	97.9	99.6	-41.30	-12,271.4	1,184.2	1,061.5	862.2	199.28	5.327		
22,420.0	9,781.4	21,396.6	8,962.6	98.1	99.8	-41.30	-12,291.4	1,184.0	1,061.5	861.9	199.58	5.319		
22,500.0	9,781.5	21,476.6	8,962.7	98.7	100.4	-41.31	-12,371.4	1,183.4	1,061.5	860.7	200.80	5.286		
22,515.0	9,781.5	21,491.6	8,962.7	98.8	100.5	-41.31	-12,386.4	1,183.2	1,061.5	860.5	201.03	5.280		
22,600.0	9,781.5	21,576.6	8,962.8	99.4	101.1	-41.31	-12,471.4	1,182.5	1,061.5	859.2	202.32	5.247		
22,610.0	9,781.5	21,586.6	8,962.8	99.5	101.2	-41.31	-12,481.4	1,182.4	1,061.5	859.1	202.48	5.243		
22,700.0	9,781.6	21,676.6	8,962.9	100.2	101.8	-41.31	-12,571.4	1,181.7	1,061.6	857.7	203.85	5.208		
22,705.0	9,781.6	21,681.6	8,962.9	100.2	101.8	-41.31	-12,576.4	1,181.7	1,061.6	857.6	203.92	5.206		
22,800.0	9,781.6	21,776.6	8,962.9	100.9	102.5	-41.32	-12,671.4	1,180.9	1,061.6	856.2	205.37	5.169		
22,895.0	9,781.7	21,871.6	8,963.0	101.6	103.2	-41.32	-12,766.4	1,180.1	1,061.6	854.8	206.82	5.133		
22,900.0	9,781.7	21,876.6	8,963.0	101.7	103.3	-41.32	-12,771.4	1,180.0	1,061.6	854.7	206.89	5.131		
22,990.0	9,781.7	21,966.6	8,963.1	102.3	103.9	-41.32	-12,861.4	1,179.3	1,061.6	853.4	208.26	5.097		
23,000.0	9,781.8	21,976.6	8,963.1	102.4	104.0	-41.32	-12,871.4	1,179.2	1,061.6	853.2	208.42	5.094		
23,085.0	9,781.8	22,061.6	8,963.2	103.0	104.6	-41.33	-12,956.4	1,178.5	1,061.6	851.9	209.71	5.062		
23,100.0	9,781.8	22,076.6	8,963.2	103.2	104.7	-41.33	-12,971.4	1,178.4	1,061.6	851.7	209.94	5.057		
23,180.0	9,781.9	22,156.6	8,963.2	103.8	105.3	-41.33	-13,051.4	1,177.7	1,061.6	850.5	211.16	5.028		
23,200.0	9,781.9	22,176.6	8,963.3	103.9	105.5	-41.33	-13,071.4	1,177.6	1,061.7	850.2	211.47	5.020		
23,275.0	9,781.9	22,251.6	8,963.3	104.5	106.0	-41.33	-13,146.4	1,176.9	1,061.7	849.1	212.61	4.994		
23,300.0	9,781.9	22,276.6	8,963.3	104.7	106.2	-41.33	-13,171.4	1,176.7	1,061.7	848.7	212.99	4.985		
23,370.0	9,782.0	22,346.6	8,963.4	105.2	106.7	-41.34	-13,241.4	1,176.2	1,061.7	847.6	214.06	4.960		
23,400.0	9,782.0	22,376.6	8,963.4	105.4	106.9	-41.34	-13,271.4	1,175.9	1,061.7	847.2	214.52	4.949		
23,465.0	9,782.0	22,441.6	8,963.5	105.9	107.4	-41.34	-13,336.4	1,175.4	1,061.7	846.2	215.51	4.927		
23,500.0	9,782.0	22,476.6	8,963.5	106.2	107.7	-41.34	-13,371.4	1,175.1	1,061.7	845.7	216.04	4.914		
23,560.0	9,782.1	22,536.6	8,963.5	106.6	108.1	-41.34	-13,431.4	1,174.6	1,061.7	844.8	216.96	4.894		
23,600.0	9,782.1	22,576.6	8,963.6	106.9	108.4	-41.34	-13,471.4	1,174.3	1,061.7	844.2	217.57	4.880		
23,655.0	9,782.1	22,631.6	8,963.6	107.3	108.8	-41.35	-13,526.4	1,173.8	1,061.7	843.3	218.41	4.861		
23,700.0	9,782.1	22,676.6	8,963.7	107.7	109.1	-41.35	-13,571.4	1,173.4	1,061.7	842.6	219.09	4.846		
23,750.0	9,782.2	22,726.6	8,963.7	108.0	109.5	-41.35	-13,621.4	1,173.0	1,061.7	841.9	219.86	4.829		
23,800.0	9,782.2	22,776.6	8,963.7	108.4	109.9	-41.35	-13,671.4	1,172.6	1,061.8	841.1	220.62	4.813		
23,845.0	9,782.2	22,821.6	8,963.8	108.7	110.2	-41.35	-13,716.4	1,172.2	1,061.8	840.5	221.31	4.798		
23,900.0	9,782.2	22,876.6	8,963.8	109.2	110.6	-41.35	-13,771.3	1,171.8	1,061.8	839.6	222.15	4.780		
23,940.0	9,782.3	22,916.6	8,963.9	109.5	110.9	-41.36	-13,811.3	1,171.4	1,061.8	839.0	222.76	4.766		
24,000.0	9,782.3	22,976.6	8,963.9	109.9	111.3	-41.36	-13,871.3	1,170.9	1,061.8	838.1	223.68	4.747		
24,035.0	9,782.3	23,011.6	8,963.9	110.2	111.6	-41.36	-13,906.3	1,170.7	1,061.8	837.6	224.21	4.736		
24,100.0	9,782.3	23,076.6	8,964.0	110.7	112.1	-41.36	-13,971.3	1,170.1	1,061.8	836.6	225.20	4.715		
24,130.0	9,782.4	23,106.6	8,964.0	110.9	112.3	-41.36	-14,001.3	1,169.9	1,061.8	836.2	225.66	4.705		
24,200.0	9,782.4	23,176.6	8,964.1	111.4	112.8	-41.36	-14,071.3	1,169.3	1,061.8	835.1	226.73	4.683		
24,225.0	9,782.4	23,201.6	8,964.1	111.6	113.0	-41.37	-14,096.3	1,169.1	1,061.8	834.7	227.11	4.675		
24,300.0	9,782.4	23,276.6	8,964.1	112.2	113.5	-41.37	-14,171.3	1,168.5	1,061.8	833.6	228.26	4.652		
24,320.0	9,782.5	23,296.6	8,964.2	112.3	113.7	-41.37	-14,191.3	1,168.3	1,061.9	833.3	228.57	4.646		
24,400.0	9,782.5	23,376.6	8,964.2	112.9	114.3	-41.37	-14,271.3	1,167.6	1,061.9	832.1	229.79	4.621		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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		Rule Assigned:		Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
24,415.0	9,782.5	23,391.6	8,964.2	113.0	114.4	-41.37	-14,286.3	1,167.5	1,061.9	831.8	230.02	4.616		
24,500.0	9,782.5	23,476.6	8,964.3	113.7	115.0	-41.37	-14,371.3	1,166.8	1,061.9	830.6	231.32	4.591		
24,510.0	9,782.6	23,486.6	8,964.3	113.7	115.1	-41.37	-14,381.3	1,166.7	1,061.9	830.4	231.47	4.588		
24,600.0	9,782.6	23,576.6	8,964.4	114.4	115.7	-41.38	-14,471.3	1,166.0	1,061.9	829.1	232.85	4.560		
24,605.0	9,782.6	23,581.6	8,964.4	114.5	115.8	-41.38	-14,476.3	1,165.9	1,061.9	829.0	232.93	4.559		
24,700.0	9,782.7	23,676.6	8,964.5	115.2	116.5	-41.38	-14,571.3	1,165.2	1,061.9	827.5	234.38	4.531		
24,795.0	9,782.7	23,771.6	8,964.5	115.9	117.2	-41.38	-14,666.3	1,164.4	1,061.9	826.1	235.83	4.503		
24,800.0	9,782.7	23,776.6	8,964.5	115.9	117.2	-41.38	-14,671.3	1,164.3	1,061.9	826.0	235.91	4.501		
24,890.0	9,782.8	23,866.6	8,964.6	116.6	117.9	-41.39	-14,761.3	1,163.6	1,062.0	824.7	237.29	4.475		
24,900.0	9,782.8	23,876.6	8,964.6	116.7	118.0	-41.39	-14,771.3	1,163.5	1,062.0	824.5	237.44	4.473		
24,985.0	9,782.8	23,961.6	8,964.7	117.3	118.6	-41.39	-14,856.3	1,162.8	1,062.0	823.2	238.74	4.448		
25,000.0	9,782.8	23,976.6	8,964.7	117.4	118.7	-41.39	-14,871.3	1,162.7	1,062.0	823.0	238.97	4.444		
25,080.0	9,782.9	24,056.6	8,964.8	118.0	119.3	-41.39	-14,951.3	1,162.0	1,062.0	821.8	240.20	4.421		
25,100.0	9,782.9	24,076.6	8,964.8	118.2	119.4	-41.39	-14,971.3	1,161.8	1,062.0	821.5	240.50	4.416		
25,175.0	9,782.9	24,151.6	8,964.8	118.8	120.0	-41.40	-15,046.3	1,161.2	1,062.0	820.4	241.65	4.395		
25,200.0	9,782.9	24,176.6	8,964.9	118.9	120.2	-41.40	-15,071.3	1,161.0	1,062.0	820.0	242.03	4.388		
25,229.2	9,782.9	24,205.7	8,964.9	119.2	120.4	-41.40	-15,100.5	1,160.8	1,062.0	819.5	242.48	4.380		
25,270.0	9,783.0	24,246.6	8,964.9	119.5	120.7	-41.40	-15,141.3	1,160.4	1,062.0	818.9	243.10	4.369		
25,300.0	9,783.0	24,276.6	8,964.9	119.7	120.9	-41.40	-15,171.3	1,160.2	1,062.0	818.5	243.56	4.360		
25,359.2	9,783.0	24,335.7	8,965.0	120.1	121.4	-41.40	-15,230.5	1,159.7	1,062.0	817.6	244.47	4.344 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 #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	1.9	1.9	3.0	3.0	157.89	-148.9	60.5	160.7				
95.0	95.0	96.9	96.9	3.0	3.0	157.89	-148.9	60.5	160.7	154.7	6.04	26.622	
100.0	100.0	101.9	101.9	3.0	3.0	157.89	-148.9	60.5	160.7	154.7	6.04	26.598	
190.0	190.0	191.9	191.9	3.1	3.1	157.89	-148.9	60.5	160.7	154.5	6.26	25.671	
200.0	200.0	201.9	201.9	3.1	3.1	157.89	-148.9	60.5	160.7	154.4	6.29	25.534	
285.0	285.0	286.9	286.9	3.3	3.3	157.89	-148.9	60.5	160.7	154.2	6.50	24.721	
300.0	300.0	301.9	301.9	3.3	3.3	157.89	-148.9	60.5	160.7	154.2	6.54	24.566	
380.0	380.0	381.9	381.9	3.4	3.4	157.89	-148.9	60.5	160.7	154.0	6.74	23.860	
400.0	400.0	401.9	401.9	3.4	3.4	157.89	-148.9	60.5	160.7	153.9	6.79	23.678	
475.0	475.0	476.9	476.9	3.5	3.5	157.89	-148.9	60.5	160.7	153.8	6.97	23.067	
500.0	500.0	501.9	501.9	3.5	3.5	157.89	-148.9	60.5	160.7	153.7	7.03	22.860	
570.0	570.0	571.9	571.9	3.6	3.6	157.89	-148.9	60.5	160.7	153.5	7.20	22.331	
600.0	600.0	601.9	601.9	3.6	3.6	157.89	-148.9	60.5	160.7	153.5	7.27	22.103	
665.0	665.0	666.9	666.9	3.7	3.7	157.89	-148.9	60.5	160.7	153.3	7.42	21.646	
700.0	700.0	701.9	701.9	3.8	3.8	157.89	-148.9	60.5	160.7	153.2	7.51	21.401	
760.0	760.0	761.9	761.9	3.8	3.8	157.89	-148.9	60.5	160.7	153.1	7.65	21.007	
800.0	800.0	801.9	801.9	3.9	3.9	157.89	-148.9	60.5	160.7	153.0	7.75	20.747	
855.0	855.0	856.9	856.9	4.0	4.0	157.89	-148.9	60.5	160.7	152.8	7.88	20.409	
900.0	900.0	901.9	901.9	4.0	4.0	157.89	-148.9	60.5	160.7	152.7	7.98	20.135	
950.0	950.0	951.9	951.9	4.1	4.1	157.89	-148.9	60.5	160.7	152.6	8.10	19.847	
1,000.0	1,000.0	1,001.9	1,001.9	4.1	4.1	157.89	-148.9	60.5	160.7	152.5	8.22	19.563	
1,045.0	1,045.0	1,046.9	1,046.9	4.2	4.2	157.89	-148.9	60.5	160.7	152.4	8.32	19.319	
1,100.0	1,100.0	1,101.9	1,101.9	4.2	4.2	157.89	-148.9	60.5	160.7	152.3	8.45	19.025	
1,140.0	1,140.0	1,141.9	1,141.9	4.3	4.3	157.89	-148.9	60.5	160.7	152.2	8.54	18.821	
1,200.0	1,200.0	1,201.9	1,201.9	4.4	4.4	157.89	-148.9	60.5	160.7	152.0	8.68	18.518	
1,235.0	1,235.0	1,236.9	1,236.9	4.4	4.4	157.89	-148.9	60.5	160.7	152.0	8.76	18.350	
1,300.0	1,300.0	1,301.9	1,301.9	4.5	4.5	157.89	-148.9	60.5	160.7	151.8	8.91	18.041	
1,330.0	1,330.0	1,331.9	1,331.9	4.5	4.5	157.89	-148.9	60.5	160.7	151.7	8.98	17.904	
1,400.0	1,400.0	1,401.9	1,401.9	4.6	4.6	157.89	-148.9	60.5	160.7	151.6	9.14	17.589	
1,425.0	1,425.0	1,426.9	1,426.9	4.6	4.6	157.89	-148.9	60.5	160.7	151.5	9.19	17.481	
1,500.0	1,500.0	1,501.9	1,501.9	4.7	4.7	157.89	-148.9	60.5	160.7	151.4	9.37	17.161	
1,501.0	1,501.0	1,502.9	1,502.9	4.7	4.7	108.71	-148.9	60.5	160.7	151.4	9.37	17.156 CC	
1,520.0	1,520.0	1,522.0	1,522.0	4.7	4.7	108.71	-148.9	60.6	160.7	151.3	9.42	17.070 ES	
1,600.0	1,600.0	1,602.5	1,602.5	4.9	4.9	108.65	-148.0	62.1	161.1	151.5	9.57	16.836	
1,615.0	1,615.0	1,617.6	1,617.6	4.9	4.9	108.63	-147.7	62.6	161.2	151.6	9.62	16.763	
1,700.0	1,699.8	1,703.2	1,703.0	5.1	5.1	108.51	-145.5	66.8	162.2	152.3	9.88	16.407	
1,710.0	1,709.8	1,713.2	1,713.0	5.1	5.1	108.49	-145.1	67.5	162.3	152.4	9.92	16.369	
1,800.0	1,799.5	1,803.7	1,803.2	5.4	5.3	108.29	-141.2	74.6	164.0	153.8	10.20	16.082	
1,805.0	1,804.4	1,808.8	1,808.2	5.4	5.3	108.28	-141.0	75.1	164.1	153.9	10.21	16.068	
1,900.0	1,898.7	1,904.3	1,903.0	5.7	5.6	108.00	-135.3	85.5	166.5	156.0	10.51	15.848	
1,995.0	1,992.5	1,999.8	1,997.3	6.0	5.9	107.67	-128.1	98.7	169.6	158.8	10.81	15.697	
2,000.0	1,997.5	2,004.8	2,002.2	6.0	5.9	107.65	-127.7	99.5	169.8	159.0	10.82	15.691	
2,090.0	2,085.8	2,095.3	2,091.0	6.3	6.3	107.29	-119.5	114.7	173.4	162.2	11.11	15.605	
2,100.0	2,095.6	2,105.3	2,100.8	6.3	6.3	107.24	-118.5	116.5	173.8	162.6	11.14	15.598	
2,185.0	2,178.5	2,190.7	2,184.0	6.6	6.6	106.86	-109.4	133.3	177.8	166.3	11.42	15.559	
2,200.2	2,193.2	2,205.9	2,198.8	6.7	6.6	106.79	-107.6	136.5	178.5	167.0	11.47	15.558	
2,280.0	2,270.7	2,285.6	2,276.1	6.9	6.9	106.55	-98.4	153.5	182.6	170.8	11.74	15.546	
2,300.0	2,290.1	2,305.6	2,295.5	7.0	7.0	106.49	-96.1	157.7	183.6	171.8	11.81	15.543	
2,375.0	2,362.9	2,380.5	2,368.2	7.2	7.2	106.27	-87.4	173.6	187.4	175.4	12.08	15.522	
2,400.0	2,387.1	2,405.4	2,392.4	7.3	7.3	106.20	-84.6	179.0	188.7	176.5	12.16	15.514	
2,470.0	2,455.0	2,475.3	2,460.2	7.5	7.5	106.01	-76.5	193.8	192.3	179.9	12.42	15.487	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Reference	Offset	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning	
Measured	Vertical	Measured	Vertical	Reference	Offset	Toolface	+N/-S	+E/-W	Between	Between	Separation	Factor	
Depth	Depth	Depth	Depth	(usft)	(usft)	(°)	(usft)	(usft)	Centres	Ellipses	(usft)		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
2,500.0	2,484.1	2,505.3	2,489.3	7.7	7.6	105.93	-73.0	200.2	193.8	181.3	12.52	15.475	
2,565.0	2,547.2	2,570.2	2,552.3	7.9	7.9	105.76	-65.5	214.0	197.1	184.4	12.77	15.443	
2,600.0	2,581.2	2,605.2	2,586.2	8.0	8.0	105.67	-61.5	221.4	198.9	186.0	12.90	15.427	
2,660.0	2,639.4	2,665.1	2,644.3	8.2	8.2	105.52	-54.6	234.2	202.0	188.9	13.12	15.393	
2,700.0	2,678.2	2,705.0	2,683.1	8.4	8.4	105.43	-50.0	242.7	204.1	190.8	13.27	15.372	
2,755.0	2,731.6	2,760.0	2,736.4	8.6	8.6	105.30	-43.6	254.3	206.9	193.4	13.49	15.338	
2,800.0	2,775.2	2,804.9	2,780.0	8.8	8.8	105.20	-38.4	263.9	209.2	195.5	13.66	15.311	
2,850.0	2,823.7	2,854.8	2,828.4	9.0	9.0	105.08	-32.7	274.5	211.7	197.9	13.86	15.279	
2,900.0	2,872.3	2,904.8	2,876.9	9.2	9.1	104.97	-26.9	285.1	214.3	200.2	14.06	15.247	
2,945.0	2,915.9	2,949.7	2,920.5	9.3	9.3	104.88	-21.7	294.7	216.6	202.4	14.24	15.216	
3,000.0	2,969.3	3,004.6	2,973.8	9.6	9.6	104.76	-15.4	306.4	219.4	205.0	14.46	15.180	
3,040.0	3,008.1	3,044.6	3,012.5	9.7	9.7	104.68	-10.7	314.9	221.5	206.9	14.62	15.151	
3,100.0	3,066.3	3,104.5	3,070.7	10.0	10.0	104.56	-3.8	327.6	224.6	209.7	14.86	15.110	
3,135.0	3,100.3	3,139.4	3,104.6	10.1	10.1	104.49	0.2	335.0	226.4	211.4	15.01	15.085	
3,200.0	3,163.3	3,204.4	3,167.6	10.4	10.4	104.37	7.7	348.8	229.7	214.4	15.27	15.040	
3,230.0	3,192.4	3,234.3	3,196.6	10.5	10.5	104.31	11.2	355.2	231.2	215.8	15.40	15.018	
3,300.0	3,260.4	3,304.2	3,264.5	10.8	10.8	104.18	19.2	370.1	234.8	219.1	15.69	14.968	
3,325.0	3,284.6	3,329.2	3,288.7	10.9	10.9	104.14	22.1	375.4	236.1	220.3	15.79	14.950	
3,400.0	3,357.4	3,404.1	3,361.4	11.2	11.2	104.01	30.8	391.3	240.0	223.9	16.11	14.897	
3,420.0	3,376.8	3,424.1	3,380.7	11.3	11.3	103.97	33.1	395.5	241.0	224.8	16.19	14.882	
3,500.0	3,454.4	3,503.9	3,458.3	11.7	11.7	103.84	42.3	412.5	245.1	228.6	16.53	14.826	
3,515.0	3,469.0	3,518.9	3,472.8	11.7	11.7	103.81	44.0	415.7	245.9	229.3	16.60	14.815	
3,600.0	3,551.4	3,603.8	3,555.2	12.1	12.1	103.68	53.8	433.8	250.3	233.3	16.96	14.755	
3,610.0	3,561.1	3,613.8	3,564.8	12.2	12.2	103.66	55.0	435.9	250.8	233.8	17.00	14.748	
3,700.0	3,648.5	3,703.7	3,652.1	12.6	12.6	103.52	65.4	455.0	255.4	238.0	17.39	14.685	
3,705.0	3,653.3	3,708.7	3,656.9	12.6	12.6	103.51	65.9	456.1	255.7	238.2	17.41	14.681	
3,800.0	3,745.5	3,803.5	3,749.0	13.0	13.0	103.37	76.9	476.2	260.5	242.7	17.83	14.615	
3,895.0	3,837.7	3,898.4	3,841.0	13.4	13.4	103.24	87.9	496.4	265.4	247.2	18.24	14.551	
3,900.0	3,842.5	3,903.4	3,845.9	13.5	13.5	103.23	88.4	497.5	265.7	247.4	18.26	14.547	
3,990.0	3,929.9	3,993.3	3,933.1	13.9	13.9	103.11	98.8	516.6	270.3	251.7	18.66	14.487	
4,000.0	3,939.6	4,003.3	3,942.7	13.9	13.9	103.09	100.0	518.7	270.8	252.1	18.70	14.480	
4,085.0	4,022.0	4,088.2	4,025.1	14.3	14.3	102.98	109.8	536.7	275.2	256.1	19.08	14.424	
4,100.0	4,036.6	4,103.1	4,039.6	14.4	14.4	102.96	111.5	539.9	276.0	256.8	19.15	14.415	
4,180.0	4,114.2	4,183.0	4,117.2	14.7	14.7	102.86	120.7	556.9	280.1	260.6	19.50	14.363	
4,200.0	4,133.6	4,203.0	4,136.5	14.8	14.8	102.83	123.0	561.2	281.1	261.6	19.59	14.350	
4,275.0	4,206.4	4,277.9	4,209.2	15.2	15.2	102.74	131.7	577.1	285.0	265.1	19.93	14.303	
4,300.0	4,230.6	4,302.9	4,233.4	15.3	15.3	102.71	134.6	582.4	286.3	266.3	20.04	14.287	
4,370.0	4,298.6	4,372.8	4,301.3	15.6	15.6	102.62	142.6	597.3	289.9	269.6	20.35	14.244	
4,400.0	4,327.7	4,402.7	4,330.3	15.7	15.7	102.59	146.1	603.6	291.5	271.0	20.49	14.226	
4,465.0	4,390.7	4,467.6	4,393.3	16.0	16.0	102.51	153.6	617.4	294.8	274.0	20.78	14.186	
4,500.0	4,424.7	4,502.6	4,427.2	16.2	16.2	102.47	157.6	624.9	296.6	275.7	20.94	14.166	
4,560.0	4,482.9	4,562.5	4,485.4	16.5	16.5	102.41	164.6	637.6	299.7	278.5	21.21	14.130	
4,600.0	4,521.7	4,602.5	4,524.1	16.7	16.7	102.36	169.2	646.1	301.8	280.4	21.39	14.107	
4,655.0	4,575.1	4,657.4	4,577.4	16.9	16.9	102.30	175.5	657.8	304.6	283.0	21.64	14.075	
4,700.0	4,618.8	4,702.3	4,621.0	17.1	17.1	102.26	180.7	667.3	306.9	285.1	21.85	14.050	
4,750.0	4,667.3	4,752.3	4,669.5	17.4	17.4	102.20	186.5	677.9	309.5	287.4	22.06	14.032	
4,755.7	4,672.8	4,757.9	4,675.0	17.4	17.4	102.20	187.1	679.1	309.8	287.7	22.08	14.030	
4,800.0	4,715.9	4,802.2	4,717.9	17.6	17.6	102.13	192.2	688.6	312.0	289.8	22.26	14.018	
4,845.0	4,759.8	4,847.1	4,761.5	17.8	17.8	101.94	197.4	698.1	314.1	291.7	22.42	14.007	
4,900.0	4,813.6	4,902.1	4,814.9	18.1	18.0	101.61	203.6	709.4	316.5	293.9	22.62	13.993	
4,940.0	4,852.9	4,942.1	4,854.0	18.3	18.2	101.37	207.7	717.1	318.1	295.3	22.76	13.975	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Reference	Offset	Highside	Offset Wellbore Centre	Distance	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)	
5,000.0	4,912.1	5,002.1	4,912.7	18.5	18.5	101.02	213.5	727.8	320.3	297.3	22.98	13.941
5,035.0	4,946.7	5,037.1	4,947.2	18.7	18.7	100.82	216.6	733.5	321.5	298.4	23.09	13.925
5,100.0	5,011.1	5,102.3	5,011.4	19.0	19.0	100.44	221.9	743.1	323.4	300.1	23.29	13.885
5,130.0	5,040.9	5,132.3	5,041.1	19.1	19.1	100.27	224.0	747.1	324.2	300.8	23.37	13.870
5,200.0	5,110.5	5,202.6	5,110.7	19.4	19.4	99.87	228.5	755.4	325.8	302.2	23.57	13.824
5,225.0	5,135.4	5,227.7	5,135.7	19.5	19.6	99.73	230.0	758.0	326.3	302.7	23.63	13.810
5,300.0	5,210.2	5,303.1	5,210.6	19.8	19.9	99.31	233.6	764.7	327.5	303.7	23.81	13.757
5,320.0	5,230.2	5,323.2	5,230.7	19.9	19.9	99.19	234.4	766.2	327.8	303.9	23.84	13.745
5,400.0	5,310.2	5,403.7	5,311.0	20.1	20.3	98.74	236.9	770.8	328.5	304.5	24.00	13.685
5,415.0	5,325.1	5,418.8	5,326.1	20.1	20.3	98.65	237.3	771.5	328.6	304.5	24.02	13.677
5,455.9	5,366.0	5,459.9	5,367.2	20.2	20.4	147.60	238.1	772.9	328.7	304.6	24.08	13.652
5,500.0	5,410.1	5,504.4	5,411.6	20.2	20.6	147.40	238.6	773.9	328.8	304.7	24.13	13.627
5,510.0	5,420.1	5,514.5	5,421.7	20.2	20.6	147.38	238.7	774.1	328.8	304.7	24.14	13.620
5,600.0	5,510.1	5,604.8	5,512.0	20.3	20.7	147.33	238.8	774.3	328.8	304.6	24.25	13.561
5,605.0	5,515.1	5,609.8	5,517.0	20.3	20.7	147.33	238.8	774.3	328.8	304.6	24.26	13.557
5,700.0	5,610.1	5,704.8	5,612.0	20.3	20.7	147.33	238.8	774.3	328.8	304.4	24.40	13.478
5,795.0	5,705.1	5,799.8	5,707.0	20.3	20.7	147.33	238.8	774.3	328.8	304.3	24.54	13.400
5,800.0	5,710.1	5,804.8	5,712.0	20.3	20.7	147.33	238.8	774.3	328.8	304.3	24.55	13.396
5,890.0	5,800.1	5,894.8	5,802.0	20.4	20.8	147.33	238.8	774.3	328.8	304.1	24.68	13.323
5,900.0	5,810.1	5,904.8	5,812.0	20.4	20.8	147.33	238.8	774.3	328.8	304.1	24.70	13.314
5,985.0	5,895.1	5,989.8	5,897.0	20.4	20.8	147.33	238.8	774.3	328.8	304.0	24.82	13.246
6,000.0	5,910.1	6,004.8	5,912.0	20.4	20.8	147.33	238.8	774.3	328.8	304.0	24.85	13.234
6,080.0	5,990.1	6,084.8	5,992.0	20.5	20.9	147.33	238.8	774.3	328.8	303.9	24.97	13.171
6,100.0	6,010.1	6,104.8	6,012.0	20.5	20.9	147.33	238.8	774.3	328.8	303.8	25.00	13.155
6,175.0	6,085.1	6,179.8	6,087.0	20.5	20.9	147.33	238.8	774.3	328.8	303.7	25.11	13.096
6,200.0	6,110.1	6,204.8	6,112.0	20.5	20.9	147.33	238.8	774.3	328.8	303.7	25.15	13.076
6,270.0	6,180.1	6,274.8	6,182.0	20.6	20.9	147.33	238.8	774.3	328.8	303.6	25.25	13.022
6,300.0	6,210.1	6,304.8	6,212.0	20.6	21.0	147.33	238.8	774.3	328.8	303.5	25.30	12.998
6,365.0	6,275.1	6,369.8	6,277.0	20.6	21.0	147.33	238.8	774.3	328.8	303.4	25.39	12.948
6,400.0	6,310.1	6,404.8	6,312.0	20.6	21.0	147.33	238.8	774.3	328.8	303.4	25.45	12.922
6,460.0	6,370.1	6,464.8	6,372.0	20.6	21.0	147.33	238.8	774.3	328.8	303.3	25.54	12.876
6,500.0	6,410.1	6,504.8	6,412.0	20.7	21.0	147.33	238.8	774.3	328.8	303.2	25.60	12.846
6,555.0	6,465.1	6,559.8	6,467.0	20.7	21.1	147.33	238.8	774.3	328.8	303.1	25.68	12.804
6,600.0	6,510.1	6,604.8	6,512.0	20.7	21.1	147.33	238.8	774.3	328.8	303.1	25.75	12.770
6,650.0	6,560.1	6,654.8	6,562.0	20.7	21.1	147.33	238.8	774.3	328.8	303.0	25.82	12.733
6,700.0	6,610.1	6,704.8	6,612.0	20.8	21.1	147.33	238.8	774.3	328.8	302.9	25.90	12.696
6,745.0	6,655.1	6,749.8	6,657.0	20.8	21.1	147.33	238.8	774.3	328.8	302.9	25.97	12.663
6,800.0	6,710.1	6,804.8	6,712.0	20.8	21.2	147.33	238.8	774.3	328.8	302.8	26.05	12.622
6,840.0	6,750.1	6,844.8	6,752.0	20.8	21.2	147.33	238.8	774.3	328.8	302.7	26.11	12.593
6,900.0	6,810.1	6,904.8	6,812.0	20.9	21.2	147.33	238.8	774.3	328.8	302.6	26.20	12.549
6,935.0	6,845.1	6,939.8	6,847.0	20.9	21.2	147.33	238.8	774.3	328.8	302.6	26.26	12.524
7,000.0	6,910.1	7,004.8	6,912.0	20.9	21.3	147.33	238.8	774.3	328.8	302.5	26.35	12.477
7,030.0	6,940.1	7,034.8	6,942.0	20.9	21.3	147.33	238.8	774.3	328.8	302.4	26.40	12.456
7,100.0	7,010.1	7,104.8	7,012.0	20.9	21.3	147.33	238.8	774.3	328.8	302.3	26.51	12.406
7,125.0	7,035.1	7,129.8	7,037.0	21.0	21.3	147.33	238.8	774.3	328.8	302.3	26.54	12.388
7,200.0	7,110.1	7,204.8	7,112.0	21.0	21.4	147.33	238.8	774.3	328.8	302.2	26.66	12.335
7,220.0	7,130.1	7,224.8	7,132.0	21.0	21.4	147.33	238.8	774.3	328.8	302.1	26.69	12.321
7,300.0	7,210.1	7,304.8	7,212.0	21.0	21.4	147.33	238.8	774.3	328.8	302.0	26.81	12.266
7,315.0	7,225.1	7,319.8	7,227.0	21.1	21.4	147.33	238.8	774.3	328.8	302.0	26.83	12.255
7,400.0	7,310.1	7,404.8	7,312.0	21.1	21.4	147.33	238.8	774.3	328.8	301.9	26.96	12.196
7,410.0	7,320.1	7,414.8	7,322.0	21.1	21.4	147.33	238.8	774.3	328.8	301.8	26.98	12.190

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum Separation		Separation	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Factor		
7,500.0	7,410.1	7,504.8	7,412.0	21.1	21.5	147.33	238.8	774.3	328.8	301.7	27.11	12.128	
7,505.0	7,415.1	7,509.8	7,417.0	21.1	21.5	147.33	238.8	774.3	328.8	301.7	27.12	12.125	
7,600.0	7,510.1	7,604.8	7,512.0	21.2	21.5	147.33	238.8	774.3	328.8	301.6	27.26	12.060	
7,695.0	7,605.1	7,699.8	7,607.0	21.2	21.6	147.33	238.8	774.3	328.8	301.4	27.41	11.997	
7,700.0	7,610.1	7,704.8	7,612.0	21.2	21.6	147.33	238.8	774.3	328.8	301.4	27.42	11.993	
7,790.0	7,700.1	7,794.8	7,702.0	21.3	21.6	147.33	238.8	774.3	328.8	301.3	27.55	11.934	
7,800.0	7,710.1	7,804.8	7,712.0	21.3	21.6	147.33	238.8	774.3	328.8	301.3	27.57	11.927	
7,885.0	7,795.1	7,889.8	7,797.0	21.3	21.7	147.33	238.8	774.3	328.8	301.1	27.70	11.871	
7,900.0	7,810.1	7,904.8	7,812.0	21.3	21.7	147.33	238.8	774.3	328.8	301.1	27.72	11.861	
7,980.0	7,890.1	7,984.8	7,892.0	21.4	21.7	147.33	238.8	774.3	328.8	301.0	27.84	11.809	
8,000.0	7,910.1	8,004.8	7,912.0	21.4	21.7	147.33	238.8	774.3	328.8	300.9	27.87	11.796	
8,075.0	7,985.1	8,079.8	7,987.0	21.4	21.8	147.33	238.8	774.3	328.8	300.8	27.99	11.748	
8,100.0	8,010.1	8,104.8	8,012.0	21.4	21.8	147.33	238.8	774.3	328.8	300.8	28.03	11.732	
8,170.0	8,080.1	8,174.8	8,082.0	21.5	21.8	147.33	238.8	774.3	328.8	300.7	28.13	11.687	
8,200.0	8,110.1	8,204.8	8,112.0	21.5	21.8	147.33	238.8	774.3	328.8	300.6	28.18	11.668	
8,265.0	8,175.1	8,269.8	8,177.0	21.5	21.8	147.33	238.8	774.3	328.8	300.5	28.28	11.627	
8,300.0	8,210.1	8,304.8	8,212.0	21.5	21.9	147.33	238.8	774.3	328.8	300.5	28.33	11.605	
8,360.0	8,270.1	8,364.8	8,272.0	21.6	21.9	147.33	238.8	774.3	328.8	300.4	28.43	11.568	
8,400.0	8,310.1	8,404.8	8,312.0	21.6	21.9	147.33	238.8	774.3	328.8	300.3	28.49	11.543	
8,455.0	8,365.1	8,459.8	8,367.0	21.6	21.9	147.33	238.8	774.3	328.8	300.3	28.56	11.511	
8,457.2	8,367.3	8,461.9	8,369.2	21.6	21.9	147.33	238.8	774.3	328.8	300.3	28.57	11.510	
8,500.0	8,410.1	8,500.0	8,407.3	21.6	21.9	147.35	238.6	774.3	329.0	300.4	28.61	11.499	
8,550.0	8,460.1	8,532.3	8,439.5	21.7	22.0	147.51	236.9	774.3	331.2	302.5	28.67	11.551	
8,600.0	8,510.1	8,565.7	8,472.7	21.7	22.0	147.85	233.2	774.3	335.8	307.1	28.74	11.682	
8,645.0	8,555.1	8,600.0	8,506.5	21.7	22.0	148.38	227.5	774.2	342.1	313.3	28.83	11.867	
8,700.0	8,610.1	8,630.6	8,536.3	21.7	22.0	148.99	220.6	774.1	352.4	323.5	28.93	12.184	
8,740.0	8,650.1	8,650.0	8,555.0	21.8	22.0	149.43	215.4	774.1	361.9	332.9	29.01	12.476	
8,800.0	8,710.1	8,700.0	8,602.3	21.8	22.0	150.75	199.2	773.9	378.8	349.7	29.16	12.991	
8,835.0	8,745.1	8,712.3	8,613.7	21.8	22.0	151.11	194.6	773.9	390.1	360.9	29.25	13.338	
8,900.0	8,810.1	8,750.0	8,648.0	21.8	22.1	152.27	179.0	773.8	414.2	384.8	29.44	14.071	
8,930.0	8,840.1	8,764.7	8,661.1	21.9	22.1	152.74	172.2	773.7	426.5	397.0	29.53	14.444	
9,000.0	8,910.1	8,800.0	8,691.7	21.9	22.1	153.90	154.8	773.6	458.2	428.5	29.77	15.394	
9,025.0	8,935.1	8,812.5	8,702.4	21.9	22.1	154.32	148.1	773.5	470.5	440.6	29.86	15.758	
9,100.0	9,010.1	8,850.0	8,733.2	21.9	22.1	155.58	126.9	773.3	509.9	479.8	30.13	16.921	
9,120.0	9,030.1	8,850.0	8,733.2	22.0	22.1	155.58	126.9	773.3	521.1	490.9	30.22	17.244	
9,200.0	9,110.1	8,900.0	8,772.1	22.0	22.1	157.24	95.5	773.0	568.4	537.9	30.52	18.623	
9,215.0	9,125.1	8,900.0	8,772.1	22.0	22.1	157.24	95.5	773.0	577.5	546.9	30.59	18.880	
9,291.9	9,202.0	8,922.9	8,789.0	22.0	22.2	157.99	80.0	772.9	626.9	595.9	30.92	20.276	
9,300.0	9,210.1	8,925.8	8,791.0	22.0	22.2	-22.16	78.0	772.9	632.2	601.3	30.86	20.488	
9,310.0	9,220.1	8,929.3	8,793.6	22.0	22.2	-21.73	75.5	772.9	638.7	607.8	30.90	20.669	
9,350.0	9,260.0	8,950.0	8,808.1	22.1	22.2	-20.02	60.8	772.7	664.1	633.1	31.07	21.372	
9,400.0	9,309.5	8,950.0	8,808.1	22.1	22.2	-18.77	60.8	772.7	694.2	662.9	31.35	22.148	
9,405.0	9,314.4	8,963.8	8,817.5	22.1	22.2	-18.39	50.7	772.6	696.9	665.6	31.34	22.234	
9,450.0	9,358.1	8,980.6	8,828.6	22.1	22.2	-17.18	38.1	772.5	721.9	690.3	31.57	22.871	
9,500.0	9,405.6	9,000.0	8,841.0	22.2	22.2	-16.06	23.1	772.4	747.7	715.9	31.82	23.496	
9,550.0	9,451.5	9,018.6	8,852.3	22.2	22.2	-15.13	8.4	772.3	771.2	739.1	32.09	24.030	
9,595.0	9,491.2	9,050.0	8,870.4	22.2	22.2	-14.31	-17.3	772.0	790.8	758.5	32.31	24.473	
9,600.0	9,495.5	9,050.0	8,870.4	22.2	22.2	-14.26	-17.3	772.0	792.7	760.4	32.35	24.508	
9,650.0	9,537.3	9,050.0	8,870.4	22.3	22.2	-13.77	-17.3	772.0	811.5	778.8	32.70	24.814	
9,690.0	9,568.9	9,073.0	8,882.7	22.3	22.3	-13.29	-36.7	771.9	824.9	791.9	32.93	25.048	
9,700.0	9,576.5	9,077.0	8,884.8	22.3	22.3	-13.20	-40.1	771.8	828.0	795.0	33.00	25.093	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1													Offset Site Error: 0.0 usft	
Survey Program: Reference		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS						Rule Assigned:					Offset Well Error: 3.0 usft	
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	
9,750.0	9,612.9	9,100.0	8,896.2	22.4	22.3	-12.76	-60.1	771.7	842.1	808.8	33.31	25.277		
9,785.0	9,636.5	9,100.0	8,896.2	22.4	22.3	-12.57	-60.1	771.7	850.7	817.1	33.61	25.311		
9,800.0	9,646.1	9,116.6	8,903.9	22.4	22.3	-12.44	-74.7	771.5	853.7	820.1	33.67	25.354		
9,850.0	9,676.0	9,150.0	8,918.2	22.4	22.3	-12.16	-105.0	771.3	863.1	829.1	33.98	25.404		
9,880.0	9,692.2	9,150.0	8,918.2	22.5	22.3	-12.07	-105.0	771.3	867.1	832.9	34.25	25.319		
9,900.0	9,702.2	9,150.0	8,918.2	22.5	22.3	-12.02	-105.0	771.3	869.5	835.1	34.43	25.252		
9,950.0	9,724.7	9,176.5	8,928.2	22.5	22.4	-11.91	-129.5	771.0	873.5	838.7	34.79	25.107		
9,975.0	9,734.4	9,200.0	8,936.1	22.5	22.4	-11.87	-151.6	770.8	874.8	839.9	34.93	25.049		
10,000.0	9,743.2	9,200.0	8,936.1	22.6	22.4	-11.87	-151.6	770.8	875.0	839.9	35.17	24.878		
10,050.0	9,757.5	9,216.6	8,941.2	22.6	22.4	-11.90	-167.4	770.7	874.0	838.4	35.60	24.549		
10,070.0	9,762.1	9,224.6	8,943.5	22.6	22.4	-11.92	-175.1	770.6	872.8	837.1	35.77	24.402		
10,100.0	9,767.6	9,250.0	8,950.0	22.7	22.4	-12.01	-199.6	770.4	870.6	834.7	35.95	24.217		
10,150.0	9,773.5	9,250.0	8,950.0	22.7	22.4	-12.14	-199.6	770.4	864.3	827.8	36.49	23.686		
10,165.0	9,774.4	9,250.0	8,950.0	22.7	22.4	-12.19	-199.6	770.4	862.1	825.4	36.65	23.524		
10,191.6	9,775.0	9,273.2	8,955.0	22.7	22.4	-12.35	-222.3	770.2	857.2	820.4	36.80	23.293		
10,200.0	9,775.0	9,276.5	8,955.6	22.7	22.5	-12.36	-225.6	770.2	855.6	818.7	36.87	23.208		
10,260.0	9,775.0	9,300.0	8,959.6	22.8	22.5	-12.42	-248.7	770.0	845.7	808.4	37.36	22.638		
10,300.0	9,775.1	9,316.9	8,961.9	22.8	22.5	-12.45	-265.5	769.8	840.5	802.8	37.68	22.304		
10,355.0	9,775.1	9,350.0	8,964.9	22.9	22.5	-12.49	-298.4	769.5	835.3	797.2	38.09	21.930		
10,400.0	9,775.1	9,350.0	8,964.9	22.9	22.5	-12.49	-298.4	769.5	832.4	793.8	38.59	21.570		
10,450.0	9,775.1	9,385.2	8,966.0	23.0	22.6	-12.51	-333.6	769.2	830.9	792.0	38.92	21.352		
10,500.0	9,775.2	9,419.5	8,966.0	23.1	22.6	-12.51	-367.8	768.9	830.8	791.5	39.24	21.172		
10,500.5	9,775.2	9,420.0	8,966.0	23.1	22.6	-12.51	-368.4	768.9	830.8	791.5	39.24	21.170		
10,545.0	9,775.2	9,464.5	8,966.1	23.1	22.7	-12.51	-412.8	768.5	830.7	791.3	39.45	21.059		
10,600.0	9,775.2	9,519.5	8,966.1	23.2	22.8	-12.51	-467.8	768.0	830.7	791.0	39.71	20.920		
10,640.0	9,775.2	9,559.5	8,966.2	23.3	22.8	-12.51	-507.8	767.7	830.7	790.8	39.92	20.811		
10,700.0	9,775.3	9,619.5	8,966.2	23.4	22.9	-12.51	-567.8	767.2	830.7	790.4	40.23	20.646		
10,735.0	9,775.3	9,654.5	8,966.3	23.4	23.0	-12.51	-602.8	766.8	830.6	790.2	40.43	20.543		
10,800.0	9,775.3	9,719.5	8,966.3	23.5	23.1	-12.51	-667.8	766.3	830.6	789.8	40.81	20.351		
10,830.0	9,775.3	9,749.5	8,966.4	23.6	23.1	-12.51	-697.8	766.0	830.6	789.6	41.00	20.258		
10,900.0	9,775.4	9,819.5	8,966.4	23.7	23.3	-12.51	-767.8	765.4	830.6	789.1	41.44	20.041		
10,925.0	9,775.4	9,844.5	8,966.5	23.8	23.3	-12.51	-792.8	765.2	830.6	788.9	41.61	19.959		
11,000.0	9,775.4	9,919.5	8,966.5	23.9	23.5	-12.51	-867.8	764.5	830.5	788.4	42.12	19.716		
11,020.0	9,775.4	9,939.5	8,966.6	24.0	23.5	-12.51	-887.8	764.3	830.5	788.2	42.27	19.648		
11,100.0	9,775.5	10,019.5	8,966.6	24.1	23.7	-12.51	-967.8	763.6	830.5	787.6	42.85	19.380		
11,115.0	9,775.5	10,034.5	8,966.7	24.2	23.7	-12.51	-982.8	763.5	830.5	787.5	42.97	19.328		
11,200.0	9,775.5	10,119.5	8,966.7	24.4	24.0	-12.52	-1,067.8	762.7	830.4	786.8	43.62	19.037		
11,210.0	9,775.5	10,129.5	8,966.8	24.4	24.0	-12.52	-1,077.8	762.6	830.4	786.7	43.70	19.001		
11,300.0	9,775.6	10,219.5	8,966.8	24.6	24.2	-12.52	-1,167.8	761.8	830.4	785.9	44.44	18.687		
11,305.0	9,775.6	10,224.5	8,966.8	24.6	24.2	-12.52	-1,172.8	761.8	830.4	785.9	44.48	18.669		
11,400.0	9,775.6	10,319.5	8,966.9	24.9	24.5	-12.52	-1,267.8	761.0	830.3	785.0	45.29	18.334		
11,495.0	9,775.7	10,414.5	8,967.0	25.2	24.8	-12.52	-1,362.8	760.1	830.3	784.2	46.14	17.997		
11,500.0	9,775.7	10,419.5	8,967.0	25.2	24.8	-12.52	-1,367.8	760.1	830.3	784.1	46.18	17.979		
11,590.0	9,775.7	10,509.5	8,967.1	25.5	25.1	-12.52	-1,457.8	759.3	830.2	783.2	47.01	17.660		
11,600.0	9,775.7	10,519.5	8,967.1	25.5	25.1	-12.52	-1,467.8	759.2	830.2	783.1	47.11	17.624		
11,685.0	9,775.8	10,604.5	8,967.2	25.8	25.4	-12.52	-1,552.8	758.4	830.2	782.3	47.92	17.324		
11,700.0	9,775.8	10,619.5	8,967.2	25.8	25.5	-12.52	-1,567.8	758.3	830.2	782.1	48.07	17.271		
11,780.0	9,775.8	10,699.5	8,967.3	26.1	25.7	-12.52	-1,647.8	757.6	830.2	781.3	48.86	16.991		
11,800.0	9,775.8	10,719.5	8,967.3	26.2	25.8	-12.52	-1,667.8	757.4	830.1	781.1	49.06	16.921		
11,875.0	9,775.9	10,794.5	8,967.4	26.5	26.1	-12.52	-1,742.8	756.8	830.1	780.3	49.82	16.661		
11,900.0	9,775.9	10,819.5	8,967.4	26.6	26.2	-12.52	-1,767.8	756.5	830.1	780.0	50.08	16.575		

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 #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum	Separation	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor
11,970.0	9,775.9	10,889.5	8,967.5	26.8	26.4	-12.52	-1,837.8	755.9	830.1	779.3	50.81	16.336
12,000.0	9,776.0	10,919.5	8,967.5	26.9	26.6	-12.52	-1,867.8	755.6	830.0	778.9	51.13	16.234
12,065.0	9,776.0	10,984.5	8,967.6	27.2	26.8	-12.52	-1,932.8	755.1	830.0	778.2	51.83	16.015
12,100.0	9,776.0	11,019.5	8,967.6	27.4	27.0	-12.52	-1,967.8	754.8	830.0	777.8	52.20	15.899
12,160.0	9,776.0	11,079.5	8,967.7	27.6	27.2	-12.52	-2,027.8	754.2	830.0	777.1	52.86	15.701
12,200.0	9,776.1	11,119.5	8,967.7	27.8	27.4	-12.52	-2,067.8	753.9	830.0	776.7	53.30	15.570
12,255.0	9,776.1	11,174.5	8,967.8	28.0	27.6	-12.52	-2,122.8	753.4	829.9	776.0	53.92	15.392
12,300.0	9,776.1	11,219.5	8,967.8	28.2	27.8	-12.52	-2,167.8	753.0	829.9	775.5	54.43	15.248
12,350.0	9,776.1	11,269.5	8,967.9	28.4	28.0	-12.52	-2,217.8	752.5	829.9	774.9	55.00	15.089
12,400.0	9,776.2	11,319.5	8,967.9	28.7	28.3	-12.52	-2,267.8	752.1	829.9	774.3	55.57	14.933
12,445.0	9,776.2	11,364.5	8,968.0	28.9	28.5	-12.52	-2,312.8	751.7	829.8	773.7	56.09	14.794
12,500.0	9,776.2	11,419.5	8,968.0	29.2	28.7	-12.52	-2,367.8	751.2	829.8	773.1	56.74	14.626
12,540.0	9,776.2	11,459.5	8,968.1	29.3	28.9	-12.53	-2,407.8	750.9	829.8	772.6	57.21	14.505
12,600.0	9,776.3	11,519.5	8,968.2	29.6	29.2	-12.53	-2,467.8	750.3	829.8	771.8	57.92	14.326
12,635.0	9,776.3	11,554.5	8,968.2	29.8	29.4	-12.53	-2,502.8	750.0	829.8	771.4	58.34	14.223
12,700.0	9,776.3	11,619.5	8,968.3	30.1	29.7	-12.53	-2,567.8	749.4	829.7	770.6	59.12	14.034
12,730.0	9,776.3	11,649.5	8,968.3	30.3	29.8	-12.53	-2,597.8	749.2	829.7	770.2	59.49	13.948
12,800.0	9,776.4	11,719.5	8,968.4	30.7	30.2	-12.53	-2,667.7	748.6	829.7	769.3	60.34	13.750
12,825.0	9,776.4	11,744.5	8,968.4	30.8	30.3	-12.53	-2,692.7	748.3	829.7	769.0	60.65	13.680
12,900.0	9,776.4	11,819.5	8,968.5	31.2	30.7	-12.53	-2,767.7	747.7	829.6	768.1	61.57	13.474
12,920.0	9,776.4	11,839.5	8,968.5	31.3	30.8	-12.53	-2,787.7	747.5	829.6	767.8	61.82	13.419
13,000.0	9,776.5	11,919.5	8,968.6	31.7	31.2	-12.53	-2,867.7	746.8	829.6	766.8	62.82	13.205
13,015.0	9,776.5	11,934.5	8,968.6	31.8	31.3	-12.53	-2,882.7	746.7	829.6	766.6	63.01	13.165
13,100.0	9,776.5	12,019.5	8,968.7	32.3	31.8	-12.53	-2,967.7	745.9	829.5	765.4	64.09	12.944
13,110.0	9,776.5	12,029.5	8,968.7	32.3	31.8	-12.53	-2,977.7	745.8	829.5	765.3	64.21	12.918
13,200.0	9,776.6	12,119.5	8,968.8	32.8	32.3	-12.53	-3,067.7	745.0	829.5	764.1	65.36	12.690
13,205.0	9,776.6	12,124.5	8,968.8	32.9	32.3	-12.53	-3,072.7	745.0	829.5	764.1	65.43	12.678
13,300.0	9,776.6	12,219.5	8,968.9	33.4	32.9	-12.53	-3,167.7	744.1	829.4	762.8	66.65	12.444
13,395.0	9,776.7	12,314.5	8,969.0	34.0	33.4	-12.53	-3,262.7	743.3	829.4	761.5	67.89	12.217
13,400.0	9,776.7	12,319.5	8,969.0	34.0	33.4	-12.53	-3,267.7	743.2	829.4	761.4	67.95	12.205
13,490.0	9,776.7	12,409.5	8,969.0	34.5	33.9	-12.53	-3,357.7	742.4	829.4	760.2	69.13	11.996
13,500.0	9,776.7	12,419.5	8,969.1	34.6	34.0	-12.53	-3,367.7	742.4	829.3	760.1	69.27	11.973
13,585.0	9,776.8	12,504.5	8,969.1	35.1	34.5	-12.53	-3,452.7	741.6	829.3	758.9	70.39	11.782
13,600.0	9,776.8	12,519.5	8,969.2	35.2	34.6	-12.53	-3,467.7	741.5	829.3	758.7	70.59	11.748
13,680.0	9,776.8	12,599.5	8,969.2	35.7	35.1	-12.53	-3,547.7	740.8	829.3	757.6	71.65	11.573
13,700.0	9,776.9	12,619.5	8,969.3	35.8	35.2	-12.53	-3,567.7	740.6	829.3	757.3	71.92	11.530
13,775.0	9,776.9	12,694.5	8,969.3	36.2	35.6	-12.53	-3,642.7	739.9	829.2	756.3	72.93	11.371
13,800.0	9,776.9	12,719.5	8,969.4	36.4	35.8	-12.53	-3,667.7	739.7	829.2	755.9	73.26	11.318
13,870.0	9,776.9	12,789.5	8,969.4	36.8	36.2	-12.53	-3,737.7	739.1	829.2	755.0	74.21	11.174
13,900.0	9,777.0	12,819.5	8,969.5	37.0	36.4	-12.54	-3,767.7	738.8	829.2	754.5	74.61	11.113
13,965.0	9,777.0	12,884.5	8,969.5	37.4	36.8	-12.54	-3,832.7	738.2	829.1	753.6	75.50	10.982
14,000.0	9,777.0	12,919.5	8,969.6	37.6	37.0	-12.54	-3,867.7	737.9	829.1	753.1	75.97	10.913
14,060.0	9,777.0	12,979.5	8,969.6	38.0	37.3	-12.54	-3,927.7	737.4	829.1	752.3	76.79	10.797
14,100.0	9,777.1	13,019.5	8,969.7	38.3	37.6	-12.54	-3,967.7	737.0	829.1	751.7	77.34	10.720
14,155.0	9,777.1	13,074.5	8,969.7	38.6	37.9	-12.54	-4,022.7	736.6	829.0	750.9	78.09	10.616
14,200.0	9,777.1	13,119.5	8,969.8	38.9	38.2	-12.54	-4,067.7	736.2	829.0	750.3	78.71	10.532
14,250.0	9,777.1	13,169.5	8,969.8	39.2	38.5	-12.54	-4,117.7	735.7	829.0	749.6	79.40	10.440
14,300.0	9,777.2	13,219.5	8,969.9	39.5	38.8	-12.54	-4,167.7	735.3	829.0	748.9	80.09	10.350
14,345.0	9,777.2	13,264.5	8,969.9	39.8	39.1	-12.54	-4,212.7	734.9	829.0	748.2	80.72	10.270
14,400.0	9,777.2	13,319.5	8,970.0	40.2	39.5	-12.54	-4,267.7	734.4	828.9	747.4	81.48	10.173
14,440.0	9,777.2	13,359.5	8,970.0	40.4	39.7	-12.54	-4,307.7	734.0	828.9	746.9	82.04	10.104

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Reference	Offset	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)		
14,500.0	9,777.3	13,419.5	8,970.1	40.8	40.1	-12.54	-4,367.7	733.5	828.9	746.0	82.88	10.001	
14,535.0	9,777.3	13,454.5	8,970.1	41.1	40.3	-12.54	-4,402.7	733.2	828.9	745.5	83.37	9.942	
14,600.0	9,777.3	13,519.5	8,970.2	41.5	40.7	-12.54	-4,467.7	732.6	828.8	744.6	84.28	9.834	
14,630.0	9,777.3	13,549.5	8,970.2	41.7	40.9	-12.54	-4,497.7	732.4	828.8	744.1	84.70	9.785	
14,700.0	9,777.4	13,619.5	8,970.3	42.2	41.4	-12.54	-4,567.7	731.7	828.8	743.1	85.68	9.673	
14,725.0	9,777.4	13,644.5	8,970.3	42.3	41.6	-12.54	-4,592.7	731.5	828.8	742.7	86.04	9.633	
14,800.0	9,777.4	13,719.5	8,970.4	42.8	42.0	-12.54	-4,667.7	730.8	828.7	741.6	87.10	9.515	
14,820.0	9,777.4	13,739.5	8,970.4	42.9	42.2	-12.54	-4,687.7	730.7	828.7	741.4	87.38	9.484	
14,900.0	9,777.5	13,819.5	8,970.5	43.5	42.7	-12.54	-4,767.7	730.0	828.7	740.2	88.51	9.362	
14,915.0	9,777.5	13,834.5	8,970.5	43.6	42.8	-12.54	-4,782.7	729.8	828.7	740.0	88.73	9.340	
15,000.0	9,777.5	13,919.5	8,970.6	44.2	43.4	-12.54	-4,867.7	729.1	828.6	738.7	89.94	9.214	
15,010.0	9,777.5	13,929.5	8,970.6	44.2	43.4	-12.54	-4,877.7	729.0	828.6	738.6	90.08	9.199	
15,100.0	9,777.6	14,019.5	8,970.7	44.8	44.0	-12.54	-4,967.7	728.2	828.6	737.2	91.36	9.069	
15,105.0	9,777.6	14,024.5	8,970.7	44.9	44.1	-12.54	-4,972.7	728.1	828.6	737.2	91.44	9.062	
15,200.0	9,777.6	14,119.5	8,970.8	45.5	44.7	-12.54	-5,067.7	727.3	828.6	735.8	92.80	8.929	
15,295.0	9,777.7	14,214.5	8,970.9	46.2	45.3	-12.55	-5,162.6	726.5	828.5	734.3	94.16	8.799	
15,300.0	9,777.7	14,219.5	8,970.9	46.2	45.4	-12.55	-5,167.6	726.4	828.5	734.3	94.23	8.792	
15,390.0	9,777.7	14,309.5	8,971.0	46.8	46.0	-12.55	-5,257.6	725.6	828.5	732.9	95.53	8.673	
15,400.0	9,777.7	14,319.5	8,971.0	46.9	46.0	-12.55	-5,267.6	725.5	828.5	732.8	95.67	8.659	
15,485.0	9,777.8	14,404.5	8,971.1	47.5	46.6	-12.55	-5,352.6	724.8	828.4	731.5	96.90	8.549	
15,500.0	9,777.8	14,419.5	8,971.1	47.6	46.7	-12.55	-5,367.6	724.6	828.4	731.3	97.12	8.530	
15,580.0	9,777.8	14,499.5	8,971.2	48.1	47.2	-12.55	-5,447.6	723.9	828.4	730.1	98.27	8.429	
15,600.0	9,777.9	14,519.5	8,971.2	48.2	47.4	-12.55	-5,467.6	723.8	828.4	729.8	98.56	8.404	
15,675.0	9,777.9	14,594.5	8,971.2	48.8	47.9	-12.55	-5,542.6	723.1	828.3	728.7	99.65	8.312	
15,700.0	9,777.9	14,619.5	8,971.3	48.9	48.1	-12.55	-5,567.6	722.9	828.3	728.3	100.02	8.282	
15,770.0	9,777.9	14,689.5	8,971.3	49.4	48.5	-12.55	-5,637.6	722.3	828.3	727.3	101.03	8.198	
15,800.0	9,778.0	14,719.5	8,971.4	49.6	48.7	-12.55	-5,667.6	722.0	828.3	726.8	101.47	8.163	
15,865.0	9,778.0	14,784.5	8,971.4	50.1	49.2	-12.55	-5,732.6	721.4	828.2	725.8	102.42	8.087	
15,900.0	9,778.0	14,819.5	8,971.5	50.3	49.4	-12.55	-5,767.6	721.1	828.2	725.3	102.93	8.047	
15,960.0	9,778.0	14,879.5	8,971.5	50.8	49.8	-12.55	-5,827.6	720.6	828.2	724.4	103.81	7.978	
16,000.0	9,778.1	14,919.5	8,971.6	51.0	50.1	-12.55	-5,867.6	720.2	828.2	723.8	104.39	7.933	
16,055.0	9,778.1	14,974.5	8,971.6	51.4	50.5	-12.55	-5,922.6	719.7	828.2	723.0	105.20	7.873	
16,100.0	9,778.1	15,019.5	8,971.7	51.7	50.8	-12.55	-5,967.6	719.3	828.1	722.3	105.86	7.823	
16,150.0	9,778.1	15,069.5	8,971.7	52.1	51.2	-12.55	-6,017.6	718.9	828.1	721.5	106.59	7.769	
16,200.0	9,778.2	15,119.5	8,971.8	52.4	51.5	-12.55	-6,067.6	718.4	828.1	720.8	107.32	7.716	
16,245.0	9,778.2	15,164.5	8,971.8	52.8	51.8	-12.55	-6,112.6	718.1	828.1	720.1	107.98	7.668	
16,300.0	9,778.2	15,219.5	8,971.9	53.1	52.2	-12.55	-6,167.6	717.6	828.0	719.2	108.79	7.611	
16,340.0	9,778.2	15,259.5	8,971.9	53.4	52.5	-12.55	-6,207.6	717.2	828.0	718.6	109.38	7.570	
16,400.0	9,778.3	15,319.5	8,972.0	53.8	52.9	-12.55	-6,267.6	716.7	828.0	717.7	110.27	7.509	
16,435.0	9,778.3	15,354.5	8,972.0	54.1	53.1	-12.55	-6,302.6	716.4	828.0	717.2	110.78	7.474	
16,500.0	9,778.3	15,419.5	8,972.1	54.6	53.6	-12.55	-6,367.6	715.8	827.9	716.2	111.74	7.409	
16,530.0	9,778.3	15,449.5	8,972.1	54.8	53.8	-12.55	-6,397.6	715.5	827.9	715.7	112.18	7.380	
16,600.0	9,778.4	15,519.5	8,972.2	55.3	54.3	-12.56	-6,467.6	714.9	827.9	714.7	113.22	7.312	
16,625.0	9,778.4	15,544.5	8,972.2	55.4	54.5	-12.56	-6,492.6	714.7	827.9	714.3	113.59	7.288	
16,700.0	9,778.4	15,619.5	8,972.3	56.0	55.0	-12.56	-6,567.6	714.0	827.9	713.2	114.70	7.218	
16,720.0	9,778.4	15,639.5	8,972.3	56.1	55.1	-12.56	-6,587.6	713.8	827.8	712.8	115.00	7.199	
16,800.0	9,778.5	15,719.5	8,972.4	56.7	55.7	-12.56	-6,667.6	713.1	827.8	711.6	116.18	7.125	
16,815.0	9,778.5	15,734.5	8,972.4	56.8	55.8	-12.56	-6,682.6	713.0	827.8	711.4	116.41	7.111	
16,900.0	9,778.5	15,819.5	8,972.5	57.4	56.4	-12.56	-6,767.6	712.3	827.8	710.1	117.67	7.035	
16,910.0	9,778.5	15,829.5	8,972.5	57.5	56.5	-12.56	-6,777.6	712.2	827.8	709.9	117.82	7.026	
17,000.0	9,778.6	15,919.5	8,972.6	58.1	57.1	-12.56	-6,867.6	711.4	827.7	708.6	119.16	6.947	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS				Rule Assigned:					Offset Well Error:				3.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
17,005.0	9,778.6	15,924.5	8,972.6	58.2	57.1	-12.56	-6,872.6	711.3	827.7	708.5	119.23	6.942		
17,100.0	9,778.6	16,019.5	8,972.7	58.8	57.8	-12.56	-6,967.6	710.5	827.7	707.0	120.64	6.860		
17,195.0	9,778.7	16,114.5	8,972.8	59.5	58.5	-12.56	-7,062.6	709.6	827.6	705.6	122.06	6.780		
17,200.0	9,778.7	16,119.5	8,972.8	59.6	58.5	-12.56	-7,067.6	709.6	827.6	705.5	122.14	6.776		
17,290.0	9,778.7	16,209.5	8,972.9	60.2	59.2	-12.56	-7,157.6	708.8	827.6	704.1	123.48	6.702		
17,300.0	9,778.7	16,219.5	8,972.9	60.3	59.2	-12.56	-7,167.6	708.7	827.6	703.9	123.63	6.694		
17,385.0	9,778.8	16,304.5	8,973.0	60.9	59.9	-12.56	-7,252.6	708.0	827.5	702.6	124.90	6.626		
17,400.0	9,778.8	16,319.5	8,973.0	61.0	60.0	-12.56	-7,267.6	707.8	827.5	702.4	125.12	6.614		
17,480.0	9,778.8	16,399.5	8,973.1	61.6	60.5	-12.56	-7,347.6	707.1	827.5	701.2	126.32	6.551		
17,500.0	9,778.9	16,419.5	8,973.1	61.7	60.7	-12.56	-7,367.6	706.9	827.5	700.9	126.62	6.535		
17,575.0	9,778.9	16,494.5	8,973.2	62.3	61.2	-12.56	-7,442.6	706.3	827.4	699.7	127.74	6.477		
17,600.0	9,778.9	16,519.5	8,973.2	62.4	61.4	-12.56	-7,467.6	706.1	827.4	699.3	128.12	6.458		
17,670.0	9,778.9	16,589.5	8,973.3	62.9	61.9	-12.56	-7,537.6	705.4	827.4	698.2	129.17	6.406		
17,700.0	9,779.0	16,619.5	8,973.3	63.2	62.1	-12.56	-7,567.6	705.2	827.4	697.8	129.62	6.383		
17,765.0	9,779.0	16,684.5	8,973.4	63.6	62.6	-12.56	-7,632.6	704.6	827.4	696.8	130.59	6.335		
17,800.0	9,779.0	16,719.5	8,973.4	63.9	62.8	-12.56	-7,667.5	704.3	827.3	696.2	131.12	6.310		
17,860.0	9,779.0	16,779.5	8,973.4	64.3	63.3	-12.56	-7,727.5	703.7	827.3	695.3	132.02	6.266		
17,900.0	9,779.1	16,819.5	8,973.5	64.6	63.5	-12.57	-7,767.5	703.4	827.3	694.7	132.62	6.238		
17,955.0	9,779.1	16,874.5	8,973.5	65.0	63.9	-12.57	-7,822.5	702.9	827.3	693.8	133.45	6.199		
18,000.0	9,779.1	16,919.5	8,973.6	65.3	64.3	-12.57	-7,867.5	702.5	827.2	693.1	134.13	6.168		
18,050.0	9,779.1	16,969.5	8,973.6	65.7	64.6	-12.57	-7,917.5	702.1	827.2	692.3	134.88	6.133		
18,100.0	9,779.2	17,019.5	8,973.7	66.1	65.0	-12.57	-7,967.5	701.6	827.2	691.6	135.63	6.099		
18,145.0	9,779.2	17,064.5	8,973.7	66.4	65.3	-12.57	-8,012.5	701.2	827.2	690.9	136.31	6.068		
18,200.0	9,779.2	17,119.5	8,973.8	66.8	65.7	-12.57	-8,067.5	700.7	827.2	690.0	137.14	6.031		
18,240.0	9,779.2	17,159.5	8,973.8	67.1	66.0	-12.57	-8,107.5	700.4	827.1	689.4	137.75	6.005		
18,300.0	9,779.3	17,219.5	8,973.9	67.5	66.4	-12.57	-8,167.5	699.9	827.1	688.5	138.65	5.965		
18,335.0	9,779.3	17,254.5	8,973.9	67.8	66.7	-12.57	-8,202.5	699.5	827.1	687.9	139.18	5.943		
18,400.0	9,779.3	17,319.5	8,974.0	68.3	67.2	-12.57	-8,267.5	699.0	827.1	686.9	140.16	5.901		
18,430.0	9,779.3	17,349.5	8,974.0	68.5	67.4	-12.57	-8,297.5	698.7	827.0	686.4	140.61	5.882		
18,500.0	9,779.4	17,419.5	8,974.1	69.0	67.9	-12.57	-8,367.5	698.1	827.0	685.3	141.67	5.837		
18,525.0	9,779.4	17,444.5	8,974.1	69.2	68.1	-12.57	-8,392.5	697.9	827.0	684.9	142.05	5.822		
18,600.0	9,779.4	17,519.5	8,974.2	69.7	68.6	-12.57	-8,467.5	697.2	827.0	683.8	143.19	5.775		
18,620.0	9,779.4	17,539.5	8,974.2	69.9	68.8	-12.57	-8,487.5	697.0	827.0	683.5	143.49	5.763		
18,700.0	9,779.5	17,619.5	8,974.3	70.4	69.3	-12.57	-8,567.5	696.3	826.9	682.2	144.70	5.715		
18,715.0	9,779.5	17,634.5	8,974.3	70.6	69.4	-12.57	-8,582.5	696.2	826.9	682.0	144.93	5.706		
18,800.0	9,779.5	17,719.5	8,974.4	71.2	70.1	-12.57	-8,667.5	695.4	826.9	680.7	146.21	5.655		
18,810.0	9,779.5	17,729.5	8,974.4	71.3	70.1	-12.57	-8,677.5	695.3	826.9	680.5	146.37	5.649		
18,900.0	9,779.6	17,819.5	8,974.5	71.9	70.8	-12.57	-8,767.5	694.5	826.8	679.1	147.73	5.597		
18,905.0	9,779.6	17,824.5	8,974.5	72.0	70.8	-12.57	-8,772.5	694.5	826.8	679.0	147.81	5.594		
19,000.0	9,779.6	17,919.5	8,974.6	72.6	71.5	-12.57	-8,867.5	693.7	826.8	677.5	149.25	5.540		
19,095.0	9,779.7	18,014.5	8,974.7	73.3	72.2	-12.57	-8,962.5	692.8	826.7	676.0	150.69	5.486		
19,100.0	9,779.7	18,019.5	8,974.7	73.4	72.3	-12.57	-8,967.5	692.8	826.7	676.0	150.77	5.484		
19,190.0	9,779.7	18,109.5	8,974.8	74.0	72.9	-12.57	-9,057.5	692.0	826.7	674.6	152.13	5.434		
19,200.0	9,779.8	18,119.5	8,974.8	74.1	73.0	-12.57	-9,067.5	691.9	826.7	674.4	152.28	5.429		
19,285.0	9,779.8	18,204.5	8,974.9	74.7	73.6	-12.58	-9,152.5	691.1	826.6	673.1	153.58	5.383		
19,300.0	9,779.8	18,219.5	8,974.9	74.9	73.7	-12.58	-9,167.5	691.0	826.6	672.8	153.80	5.375		
19,380.0	9,779.8	18,299.5	8,975.0	75.4	74.3	-12.58	-9,247.5	690.3	826.6	671.6	155.02	5.332		
19,400.0	9,779.9	18,319.5	8,975.0	75.6	74.4	-12.58	-9,267.5	690.1	826.6	671.3	155.33	5.322		
19,475.0	9,779.9	18,394.5	8,975.1	76.1	75.0	-12.58	-9,342.5	689.4	826.6	670.1	156.47	5.283		
19,500.0	9,779.9	18,419.5	8,975.1	76.3	75.2	-12.58	-9,367.5	689.2	826.5	669.7	156.85	5.270		
19,570.0	9,779.9	18,489.5	8,975.2	76.8	75.7	-12.58	-9,437.5	688.6	826.5	668.6	157.91	5.234		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS							Rule Assigned:				Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
19,600.0	9,780.0	18,519.5	8,975.2	77.1	75.9	-12.58	-9,467.5	688.3	826.5	668.1	158.37	5.219		
19,665.0	9,780.0	18,584.5	8,975.3	77.5	76.4	-12.58	-9,532.5	687.8	826.5	667.1	159.36	5.186		
19,700.0	9,780.0	18,619.5	8,975.3	77.8	76.6	-12.58	-9,567.5	687.5	826.5	666.6	159.90	5.169		
19,760.0	9,780.0	18,679.5	8,975.4	78.3	77.1	-12.58	-9,627.5	686.9	826.4	665.6	160.81	5.139		
19,800.0	9,780.1	18,719.5	8,975.4	78.5	77.4	-12.58	-9,667.5	686.6	826.4	665.0	161.42	5.120		
19,855.0	9,780.1	18,774.5	8,975.5	79.0	77.8	-12.58	-9,722.5	686.1	826.4	664.1	162.26	5.093		
19,900.0	9,780.1	18,819.5	8,975.5	79.3	78.1	-12.58	-9,767.5	685.7	826.4	663.4	162.95	5.071		
19,950.0	9,780.1	18,869.5	8,975.6	79.7	78.5	-12.58	-9,817.5	685.2	826.3	662.6	163.71	5.048		
20,000.0	9,780.2	18,919.5	8,975.6	80.0	78.9	-12.58	-9,867.5	684.8	826.3	661.8	164.47	5.024		
20,045.0	9,780.2	18,964.5	8,975.6	80.4	79.2	-12.58	-9,912.5	684.4	826.3	661.1	165.16	5.003		
20,100.0	9,780.2	19,019.5	8,975.7	80.8	79.6	-12.58	-9,967.5	683.9	826.3	660.3	166.00	4.978		
20,140.0	9,780.2	19,059.5	8,975.7	81.1	79.9	-12.58	-10,007.5	683.6	826.2	659.6	166.61	4.959		
20,200.0	9,780.3	19,119.5	8,975.8	81.5	80.3	-12.58	-10,067.5	683.0	826.2	658.7	167.53	4.932		
20,235.0	9,780.3	19,154.5	8,975.8	81.8	80.6	-12.58	-10,102.5	682.7	826.2	658.1	168.06	4.916		
20,300.0	9,780.3	19,219.5	8,975.9	82.3	81.1	-12.58	-10,167.4	682.1	826.2	657.1	169.06	4.887		
20,330.0	9,780.3	19,249.5	8,975.9	82.5	81.3	-12.58	-10,197.4	681.9	826.2	656.6	169.51	4.874		
20,400.0	9,780.4	19,319.5	8,976.0	83.0	81.8	-12.58	-10,267.4	681.3	826.1	655.5	170.58	4.843		
20,425.0	9,780.4	19,344.5	8,976.0	83.2	82.0	-12.58	-10,292.4	681.0	826.1	655.1	170.97	4.832		
20,500.0	9,780.4	19,419.5	8,976.1	83.7	82.5	-12.58	-10,367.4	680.4	826.1	654.0	172.11	4.800		
20,520.0	9,780.4	19,439.5	8,976.1	83.9	82.7	-12.58	-10,387.4	680.2	826.1	653.6	172.42	4.791		
20,600.0	9,780.5	19,519.5	8,976.2	84.5	83.3	-12.59	-10,467.4	679.5	826.0	652.4	173.65	4.757		
20,615.0	9,780.5	19,534.5	8,976.2	84.6	83.4	-12.59	-10,482.4	679.4	826.0	652.1	173.88	4.751		
20,700.0	9,780.5	19,619.5	8,976.3	85.2	84.0	-12.59	-10,567.4	678.6	826.0	650.8	175.18	4.715		
20,710.0	9,780.5	19,629.5	8,976.3	85.3	84.1	-12.59	-10,577.4	678.5	826.0	650.6	175.33	4.711		
20,800.0	9,780.6	19,719.5	8,976.4	86.0	84.8	-12.59	-10,667.4	677.7	825.9	649.2	176.71	4.674		
20,805.0	9,780.6	19,724.5	8,976.4	86.0	84.8	-12.59	-10,672.4	677.7	825.9	649.1	176.79	4.672		
20,900.0	9,780.6	19,819.5	8,976.5	86.7	85.5	-12.59	-10,767.4	676.8	825.9	647.6	178.24	4.634		
20,995.0	9,780.7	19,914.5	8,976.6	87.4	86.2	-12.59	-10,862.4	676.0	825.8	646.1	179.70	4.596		
21,000.0	9,780.7	19,919.5	8,976.6	87.5	86.2	-12.59	-10,867.4	675.9	825.8	646.1	179.77	4.594		
21,090.0	9,780.7	20,009.5	8,976.7	88.1	86.9	-12.59	-10,957.4	675.1	825.8	644.6	181.16	4.559		
21,100.0	9,780.8	20,019.5	8,976.7	88.2	87.0	-12.59	-10,967.4	675.1	825.8	644.5	181.31	4.555		
21,185.0	9,780.8	20,104.5	8,976.8	88.8	87.6	-12.59	-11,052.4	674.3	825.8	643.1	182.61	4.522		
21,200.0	9,780.8	20,119.5	8,976.8	88.9	87.7	-12.59	-11,067.4	674.2	825.7	642.9	182.84	4.516		
21,280.0	9,780.8	20,199.5	8,976.9	89.5	88.3	-12.59	-11,147.4	673.5	825.7	641.6	184.07	4.486		
21,300.0	9,780.9	20,219.5	8,976.9	89.7	88.5	-12.59	-11,167.4	673.3	825.7	641.3	184.38	4.478		
21,375.0	9,780.9	20,294.5	8,977.0	90.2	89.0	-12.59	-11,242.4	672.6	825.7	640.1	185.53	4.450		
21,400.0	9,780.9	20,319.5	8,977.0	90.4	89.2	-12.59	-11,267.4	672.4	825.7	639.7	185.91	4.441		
21,470.0	9,780.9	20,389.5	8,977.1	91.0	89.7	-12.59	-11,337.4	671.8	825.6	638.6	186.99	4.415		
21,500.0	9,781.0	20,419.5	8,977.1	91.2	90.0	-12.59	-11,367.4	671.5	825.6	638.2	187.45	4.404		
21,565.0	9,781.0	20,484.5	8,977.2	91.7	90.4	-12.59	-11,432.4	670.9	825.6	637.1	188.45	4.381		
21,600.0	9,781.0	20,519.5	8,977.2	91.9	90.7	-12.59	-11,467.4	670.6	825.6	636.6	188.99	4.368		
21,660.0	9,781.0	20,579.5	8,977.3	92.4	91.1	-12.59	-11,527.4	670.1	825.5	635.6	189.91	4.347		
21,700.0	9,781.1	20,619.5	8,977.3	92.7	91.4	-12.59	-11,567.4	669.7	825.5	635.0	190.52	4.333		
21,755.0	9,781.1	20,674.5	8,977.4	93.1	91.8	-12.59	-11,622.4	669.3	825.5	634.1	191.37	4.314		
21,800.0	9,781.1	20,719.5	8,977.4	93.4	92.2	-12.59	-11,667.4	668.9	825.5	633.4	192.06	4.298		
21,850.0	9,781.1	20,769.5	8,977.5	93.8	92.6	-12.59	-11,717.4	668.4	825.4	632.6	192.83	4.281		
21,900.0	9,781.2	20,819.5	8,977.5	94.2	92.9	-12.60	-11,767.4	668.0	825.4	631.8	193.60	4.264		
21,945.0	9,781.2	20,864.5	8,977.6	94.5	93.3	-12.60	-11,812.4	667.6	825.4	631.1	194.29	4.248		
22,000.0	9,781.2	20,919.5	8,977.6	94.9	93.7	-12.60	-11,867.4	667.1	825.4	630.2	195.14	4.230		
22,040.0	9,781.2	20,959.5	8,977.7	95.2	94.0	-12.60	-11,907.4	666.7	825.4	629.6	195.75	4.216		
22,100.0	9,781.3	21,019.5	8,977.7	95.7	94.4	-12.60	-11,967.4	666.2	825.3	628.7	196.68	4.196		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS							Rule Assigned:				Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre			Distance		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
22,135.0	9,781.3	21,054.5	8,977.8	95.9	94.7	-12.60	-12,002.4	665.9	825.3	628.1	197.22	4.185		
22,200.0	9,781.3	21,119.5	8,977.8	96.4	95.2	-12.60	-12,067.4	665.3	825.3	627.1	198.22	4.164		
22,230.0	9,781.3	21,149.5	8,977.8	96.6	95.4	-12.60	-12,097.4	665.0	825.3	626.6	198.68	4.154		
22,300.0	9,781.4	21,219.5	8,977.9	97.2	95.9	-12.60	-12,167.4	664.4	825.2	625.5	199.76	4.131		
22,325.0	9,781.4	21,244.5	8,977.9	97.3	96.1	-12.60	-12,192.4	664.2	825.2	625.1	200.14	4.123		
22,400.0	9,781.4	21,319.5	8,978.0	97.9	96.7	-12.60	-12,267.4	663.5	825.2	623.9	201.30	4.099		
22,420.0	9,781.4	21,339.5	8,978.0	98.1	96.8	-12.60	-12,287.4	663.4	825.2	623.6	201.61	4.093		
22,500.0	9,781.5	21,419.5	8,978.1	98.7	97.4	-12.60	-12,367.4	662.7	825.1	622.3	202.84	4.068		
22,515.0	9,781.5	21,434.5	8,978.1	98.8	97.5	-12.60	-12,382.4	662.5	825.1	622.1	203.07	4.063		
22,600.0	9,781.5	21,519.5	8,978.2	99.4	98.1	-12.60	-12,467.4	661.8	825.1	620.7	204.38	4.037		
22,610.0	9,781.5	21,529.5	8,978.2	99.5	98.2	-12.60	-12,477.4	661.7	825.1	620.6	204.53	4.034		
22,700.0	9,781.6	21,619.5	8,978.3	100.2	98.9	-12.60	-12,567.4	660.9	825.0	619.1	205.92	4.007		
22,705.0	9,781.6	21,624.5	8,978.3	100.2	98.9	-12.60	-12,572.4	660.8	825.0	619.0	206.00	4.005		
22,800.0	9,781.6	21,719.5	8,978.4	100.9	99.6	-12.60	-12,667.3	660.0	825.0	617.5	207.46	3.977		
22,895.0	9,781.7	21,814.5	8,978.5	101.6	100.4	-12.60	-12,762.3	659.2	825.0	616.0	208.93	3.949		
22,900.0	9,781.7	21,819.5	8,978.5	101.7	100.4	-12.60	-12,767.3	659.1	825.0	615.9	209.01	3.947		
22,990.0	9,781.7	21,909.5	8,978.6	102.3	101.1	-12.60	-12,857.3	658.3	824.9	614.5	210.39	3.921		
23,000.0	9,781.8	21,919.5	8,978.6	102.4	101.1	-12.60	-12,867.3	658.2	824.9	614.4	210.55	3.918		
23,085.0	9,781.8	22,004.5	8,978.7	103.0	101.8	-12.60	-12,952.3	657.5	824.9	613.0	211.86	3.893		
23,100.0	9,781.8	22,019.5	8,978.7	103.2	101.9	-12.60	-12,967.3	657.3	824.9	612.8	212.09	3.889		
23,180.0	9,781.9	22,099.5	8,978.8	103.8	102.5	-12.60	-13,047.3	656.6	824.8	611.5	213.33	3.866		
23,200.0	9,781.9	22,119.5	8,978.8	103.9	102.6	-12.60	-13,067.3	656.5	824.8	611.2	213.64	3.861		
23,275.0	9,781.9	22,194.5	8,978.9	104.5	103.2	-12.61	-13,142.3	655.8	824.8	610.0	214.79	3.840		
23,300.0	9,781.9	22,219.5	8,978.9	104.7	103.4	-12.61	-13,167.3	655.6	824.8	609.6	215.18	3.833		
23,370.0	9,782.0	22,289.5	8,979.0	105.2	103.9	-12.61	-13,237.3	655.0	824.7	608.5	216.26	3.814		
23,400.0	9,782.0	22,319.5	8,979.0	105.4	104.1	-12.61	-13,267.3	654.7	824.7	608.0	216.72	3.805		
23,465.0	9,782.0	22,384.5	8,979.1	105.9	104.6	-12.61	-13,332.3	654.1	824.7	607.0	217.73	3.788		
23,500.0	9,782.0	22,419.5	8,979.1	106.2	104.9	-12.61	-13,367.3	653.8	824.7	606.4	218.27	3.778		
23,560.0	9,782.1	22,479.5	8,979.2	106.6	105.3	-12.61	-13,427.3	653.3	824.6	605.5	219.20	3.762		
23,600.0	9,782.1	22,519.5	8,979.2	106.9	105.6	-12.61	-13,467.3	652.9	824.6	604.8	219.81	3.751		
23,655.0	9,782.1	22,574.5	8,979.3	107.3	106.0	-12.61	-13,522.3	652.4	824.6	603.9	220.66	3.737		
23,700.0	9,782.1	22,619.5	8,979.3	107.7	106.4	-12.61	-13,567.3	652.0	824.6	603.2	221.36	3.725		
23,750.0	9,782.2	22,669.5	8,979.4	108.0	106.7	-12.61	-13,617.3	651.6	824.6	602.4	222.13	3.712		
23,800.0	9,782.2	22,719.5	8,979.4	108.4	107.1	-12.61	-13,667.3	651.1	824.5	601.6	222.90	3.699		
23,845.0	9,782.2	22,764.5	8,979.5	108.7	107.5	-12.61	-13,712.3	650.7	824.5	600.9	223.60	3.687		
23,900.0	9,782.2	22,819.5	8,979.5	109.2	107.9	-12.61	-13,767.3	650.3	824.5	600.0	224.45	3.673		
23,940.0	9,782.3	22,859.5	8,979.6	109.5	108.2	-12.61	-13,807.3	649.9	824.5	599.4	225.07	3.663		
24,000.0	9,782.3	22,919.5	8,979.6	109.9	108.6	-12.61	-13,867.3	649.4	824.4	598.4	226.00	3.648		
24,035.0	9,782.3	22,954.5	8,979.7	110.2	108.9	-12.61	-13,902.3	649.1	824.4	597.9	226.54	3.639		
24,100.0	9,782.3	23,019.5	8,979.7	110.7	109.4	-12.61	-13,967.3	648.5	824.4	596.9	227.54	3.623		
24,130.0	9,782.4	23,049.5	8,979.8	110.9	109.6	-12.61	-13,997.3	648.2	824.4	596.4	228.01	3.616		
24,200.0	9,782.4	23,119.5	8,979.8	111.4	110.1	-12.61	-14,067.3	647.6	824.3	595.3	229.09	3.598		
24,225.0	9,782.4	23,144.5	8,979.9	111.6	110.3	-12.61	-14,092.3	647.4	824.3	594.9	229.48	3.592		
24,300.0	9,782.4	23,219.5	8,979.9	112.2	110.9	-12.61	-14,167.3	646.7	824.3	593.7	230.64	3.574		
24,320.0	9,782.5	23,239.5	8,980.0	112.3	111.0	-12.61	-14,187.3	646.5	824.3	593.3	230.95	3.569		
24,400.0	9,782.5	23,319.5	8,980.0	112.9	111.6	-12.61	-14,267.3	645.8	824.3	592.1	232.18	3.550		
24,415.0	9,782.5	23,334.5	8,980.0	113.0	111.7	-12.61	-14,282.3	645.7	824.2	591.8	232.42	3.546		
24,500.0	9,782.5	23,419.5	8,980.1	113.7	112.4	-12.61	-14,367.3	644.9	824.2	590.5	233.73	3.526		
24,510.0	9,782.6	23,429.5	8,980.1	113.7	112.4	-12.61	-14,377.3	644.9	824.2	590.3	233.89	3.524		
24,600.0	9,782.6	23,519.5	8,980.2	114.4	113.1	-12.62	-14,467.3	644.1	824.2	588.9	235.28	3.503		
24,605.0	9,782.6	23,524.5	8,980.2	114.5	113.2	-12.62	-14,472.3	644.0	824.2	588.8	235.36	3.502		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Rule Assigned:		Distance		Minimum Separation		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation Factor	
24,700.0	9,782.7	23,619.5	8,980.3	115.2	113.9	-12.62	-14,567.3	643.2	824.1	587.3	236.83	3.480
24,795.0	9,782.7	23,714.5	8,980.4	115.9	114.6	-12.62	-14,662.3	642.3	824.1	585.8	238.30	3.458
24,800.0	9,782.7	23,719.5	8,980.4	115.9	114.6	-12.62	-14,667.3	642.3	824.1	585.7	238.38	3.457
24,890.0	9,782.8	23,809.5	8,980.5	116.6	115.3	-12.62	-14,757.3	641.5	824.0	584.3	239.77	3.437
24,900.0	9,782.8	23,819.5	8,980.5	116.7	115.4	-12.62	-14,767.3	641.4	824.0	584.1	239.93	3.434
24,985.0	9,782.8	23,904.5	8,980.6	117.3	116.0	-12.62	-14,852.3	640.7	824.0	582.7	241.24	3.416
25,000.0	9,782.8	23,919.5	8,980.6	117.4	116.1	-12.62	-14,867.3	640.5	824.0	582.5	241.47	3.412
25,080.0	9,782.9	23,999.5	8,980.7	118.0	116.7	-12.62	-14,947.3	639.8	823.9	581.2	242.71	3.395
25,100.0	9,782.9	24,019.5	8,980.7	118.2	116.9	-12.62	-14,967.3	639.6	823.9	580.9	243.02	3.390
25,175.0	9,782.9	24,094.5	8,980.8	118.8	117.4	-12.62	-15,042.3	639.0	823.9	579.7	244.19	3.374
25,200.0	9,782.9	24,119.5	8,980.8	118.9	117.6	-12.62	-15,067.3	638.7	823.9	579.3	244.57	3.369
25,229.2	9,782.9	24,148.6	8,980.9	119.2	117.9	-12.62	-15,096.4	638.5	823.9	578.8	245.02	3.362
25,270.0	9,783.0	24,189.5	8,980.9	119.5	118.2	-12.62	-15,137.3	638.1	823.8	578.2	245.66	3.354
25,300.0	9,783.0	24,219.5	8,980.9	119.7	118.4	-12.62	-15,167.3	637.9	823.8	577.7	246.12	3.347
25,359.1	9,783.0	24,278.2	8,981.0	120.1	118.8	-12.62	-15,225.9	637.3	823.8	576.8	247.03	3.335
25,359.2	9,783.0	24,278.2	8,981.0	120.1	118.8	-12.62	-15,225.9	637.3	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 #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #707H - OWB - PWP1													Offset Site Error: 0.0 usft	
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8417-r.5 MWD+IFR1+MS						Rule Assigned:				Offset Well Error: 3.0 usft		
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance				Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.0	0.0	2.6	2.6	3.0	3.0	168.46	-149.4	30.5	152.5					
95.0	95.0	97.6	97.6	3.0	3.0	168.46	-149.4	30.5	152.5	146.4	6.04	25.256		
100.0	100.0	102.6	102.6	3.0	3.0	168.46	-149.4	30.5	152.5	146.4	6.04	25.232		
190.0	190.0	192.6	192.6	3.1	3.1	168.46	-149.4	30.5	152.5	146.2	6.26	24.348		
200.0	200.0	202.6	202.6	3.1	3.1	168.46	-149.4	30.5	152.5	146.2	6.30	24.219		
285.0	285.0	287.6	287.6	3.3	3.3	168.46	-149.4	30.5	152.5	146.0	6.50	23.443		
300.0	300.0	302.6	302.6	3.3	3.3	168.46	-149.4	30.5	152.5	145.9	6.55	23.296		
380.0	380.0	382.6	382.6	3.4	3.4	168.46	-149.4	30.5	152.5	145.7	6.74	22.621		
400.0	400.0	402.6	402.6	3.4	3.4	168.46	-149.4	30.5	152.5	145.7	6.79	22.447		
475.0	475.0	477.6	477.6	3.5	3.5	168.46	-149.4	30.5	152.5	145.5	6.97	21.862		
500.0	500.0	502.6	502.6	3.5	3.5	168.46	-149.4	30.5	152.5	145.4	7.04	21.664		
570.0	570.0	572.6	572.6	3.6	3.6	168.46	-149.4	30.5	152.5	145.3	7.21	21.157		
600.0	600.0	602.6	602.6	3.6	3.6	168.46	-149.4	30.5	152.5	145.2	7.28	20.939		
665.0	665.0	667.6	667.6	3.7	3.7	168.46	-149.4	30.5	152.5	145.0	7.44	20.500		
700.0	700.0	702.6	702.6	3.8	3.8	168.46	-149.4	30.5	152.5	145.0	7.52	20.265		
760.0	760.0	762.6	762.6	3.8	3.8	168.46	-149.4	30.5	152.5	144.8	7.67	19.886		
800.0	800.0	802.6	802.6	3.9	3.9	168.46	-149.4	30.5	152.5	144.7	7.77	19.636		
855.0	855.0	857.6	857.6	4.0	4.0	168.46	-149.4	30.5	152.5	144.6	7.90	19.311		
900.0	900.0	902.6	902.6	4.0	4.0	168.46	-149.4	30.5	152.5	144.5	8.01	19.048		
950.0	950.0	952.6	952.6	4.1	4.1	168.46	-149.4	30.5	152.5	144.4	8.12	18.771		
1,000.0	1,000.0	1,002.6	1,002.6	4.1	4.1	168.46	-149.4	30.5	152.5	144.2	8.24	18.497		
1,045.0	1,045.0	1,047.6	1,047.6	4.2	4.2	168.46	-149.4	30.5	152.5	144.1	8.35	18.262		
1,100.0	1,100.0	1,102.6	1,102.6	4.2	4.2	168.46	-149.4	30.5	152.5	144.0	8.48	17.979		
1,140.0	1,140.0	1,142.6	1,142.6	4.3	4.3	168.46	-149.4	30.5	152.5	143.9	8.57	17.782		
1,200.0	1,200.0	1,202.6	1,202.6	4.4	4.4	168.46	-149.4	30.5	152.5	143.8	8.72	17.491		
1,235.0	1,235.0	1,237.6	1,237.6	4.4	4.4	168.46	-149.4	30.5	152.5	143.7	8.80	17.329		
1,300.0	1,300.0	1,302.6	1,302.6	4.5	4.5	168.46	-149.4	30.5	152.5	143.5	8.95	17.031		
1,330.0	1,330.0	1,332.6	1,332.6	4.5	4.5	168.46	-149.4	30.5	152.5	143.5	9.02	16.899		
1,400.0	1,400.0	1,402.6	1,402.6	4.6	4.6	168.46	-149.4	30.5	152.5	143.3	9.19	16.596		
1,425.0	1,425.0	1,427.6	1,427.6	4.6	4.6	168.46	-149.4	30.5	152.5	143.2	9.25	16.491		
1,500.0	1,500.0	1,502.7	1,502.7	4.7	4.7	168.46	-149.4	30.5	152.5	143.1	9.42	16.181		
1,520.0	1,520.0	1,523.5	1,523.5	4.7	4.8	119.29	-149.3	30.6	152.5	143.0	9.48	16.075		
1,600.0	1,600.0	1,606.5	1,606.5	4.9	4.9	119.36	-147.8	31.6	152.0	142.3	9.70	15.673		
1,615.0	1,615.0	1,622.1	1,622.1	4.9	4.9	119.38	-147.2	32.0	151.9	142.1	9.76	15.564		
1,700.0	1,699.8	1,710.4	1,710.2	5.1	5.2	119.61	-143.0	34.9	150.7	140.6	10.09	14.939		
1,710.0	1,709.8	1,720.8	1,720.5	5.1	5.2	119.65	-142.4	35.3	150.5	140.4	10.13	14.863		
1,800.0	1,799.5	1,814.2	1,813.5	5.4	5.5	120.07	-135.2	40.2	148.6	138.1	10.49	14.170		
1,805.0	1,804.4	1,819.3	1,818.7	5.4	5.5	120.10	-134.7	40.5	148.5	138.0	10.51	14.130		
1,900.0	1,898.7	1,917.9	1,916.4	5.7	5.7	120.74	-124.3	47.6	145.7	134.8	10.89	13.387		
1,995.0	1,992.5	2,014.0	2,011.3	6.0	5.9	121.78	-112.0	56.0	142.8	131.6	11.22	12.728		
2,000.0	1,997.5	2,019.0	2,016.3	6.0	5.9	121.86	-111.3	56.5	142.7	131.4	11.24	12.693		
2,090.0	2,085.8	2,108.8	2,105.0	6.3	6.2	123.83	-99.7	64.4	141.5	129.8	11.68	12.117		
2,100.0	2,095.6	2,118.8	2,114.9	6.3	6.2	124.11	-98.4	65.3	141.5	129.8	11.73	12.061		
2,104.6	2,100.1	2,123.4	2,119.4	6.3	6.2	124.24	-97.9	65.7	141.5	129.7	11.76	12.035 CC, ES		
2,185.0	2,178.5	2,203.5	2,198.5	6.6	6.4	126.91	-87.5	72.7	142.3	130.1	12.22	11.647		
2,200.2	2,193.2	2,218.6	2,213.5	6.7	6.5	127.48	-85.5	74.1	142.6	130.3	12.31	11.585		
2,280.0	2,270.7	2,298.0	2,291.9	6.9	6.7	130.56	-75.3	81.1	144.8	132.0	12.80	11.307		
2,300.0	2,290.1	2,317.9	2,311.5	7.0	6.8	131.31	-72.7	82.8	145.4	132.5	12.93	11.241		
2,375.0	2,362.9	2,392.5	2,385.2	7.2	7.0	134.08	-63.1	89.4	147.9	134.4	13.44	11.006		
2,400.0	2,387.1	2,417.4	2,409.8	7.3	7.1	134.99	-59.8	91.6	148.8	135.2	13.61	10.933		
2,470.0	2,455.0	2,487.1	2,478.6	7.5	7.3	137.46	-50.8	97.7	151.5	137.4	14.11	10.738		

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 #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #707H - OWB - PWP1													Offset Site Error:	0.0 usft	
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8417-r.5 MWD+IFR1+MS						Rule Assigned:						Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
2,500.0	2,484.1	2,516.9	2,508.1	7.7	7.4	138.49	-47.0	100.4	152.8	138.4	14.33	10.660			
2,565.0	2,547.2	2,581.6	2,571.9	7.9	7.6	140.66	-38.6	106.1	155.7	140.8	14.82	10.501			
2,600.0	2,581.2	2,616.4	2,606.3	8.0	7.8	141.80	-34.1	109.1	157.3	142.2	15.09	10.422			
2,660.0	2,639.4	2,676.1	2,665.3	8.2	8.0	143.70	-26.4	114.4	160.3	144.7	15.57	10.293			
2,700.0	2,678.2	2,715.9	2,704.6	8.4	8.1	144.92	-21.3	117.9	162.3	146.4	15.89	10.215			
2,755.0	2,731.6	2,770.6	2,758.7	8.6	8.3	146.55	-14.2	122.7	165.3	148.9	16.34	10.115			
2,800.0	2,775.2	2,815.4	2,802.9	8.8	8.5	147.84	-8.4	126.7	167.8	151.1	16.71	10.040			
2,850.0	2,823.7	2,865.1	2,852.0	9.0	8.6	149.23	-2.0	131.1	170.7	153.6	17.14	9.962			
2,900.0	2,872.3	2,914.9	2,901.1	9.2	8.8	150.58	4.5	135.4	173.7	156.1	17.56	9.892			
2,945.0	2,915.9	2,959.6	2,945.4	9.3	9.0	151.75	10.2	139.4	176.5	158.5	17.95	9.834			
3,000.0	2,969.3	3,014.4	2,999.4	9.6	9.2	153.13	17.3	144.2	180.0	161.5	18.42	9.770			
3,040.0	3,008.1	3,054.2	3,038.7	9.7	9.4	154.10	22.5	147.7	182.6	163.8	18.77	9.727			
3,100.0	3,066.3	3,113.9	3,097.7	10.0	9.6	155.50	30.2	153.0	186.6	167.3	19.29	9.670			
3,135.0	3,100.3	3,148.7	3,132.1	10.1	9.7	156.30	34.7	156.1	188.9	169.3	19.60	9.639			
3,200.0	3,163.3	3,213.3	3,195.9	10.4	10.0	157.72	43.0	161.8	193.5	173.3	20.17	9.589			
3,230.0	3,192.4	3,243.2	3,225.4	10.5	10.1	158.35	46.9	164.4	195.6	175.1	20.44	9.568			
3,300.0	3,260.4	3,312.8	3,294.2	10.8	10.4	159.77	55.9	170.5	200.6	179.6	21.06	9.526			
3,325.0	3,284.6	3,337.7	3,318.8	10.9	10.5	160.26	59.1	172.7	202.4	181.2	21.28	9.512			
3,400.0	3,357.4	3,412.3	3,392.5	11.2	10.8	161.69	68.8	179.3	208.0	186.1	21.95	9.477			
3,420.0	3,376.8	3,432.2	3,412.1	11.3	10.8	162.05	71.3	181.0	209.5	187.4	22.13	9.469			
3,500.0	3,454.4	3,511.8	3,490.7	11.7	11.2	163.47	81.6	188.1	215.6	192.8	22.84	9.442			
3,515.0	3,469.0	3,526.7	3,505.5	11.7	11.2	163.72	83.6	189.4	216.8	193.8	22.97	9.437			
3,600.0	3,551.4	3,611.3	3,589.0	12.1	11.6	165.12	94.5	196.8	223.4	199.7	23.73	9.416			
3,610.0	3,561.1	3,621.3	3,598.8	12.2	11.6	165.28	95.8	197.7	224.2	200.4	23.82	9.414			
3,700.0	3,648.5	3,710.8	3,687.3	12.6	12.0	166.67	107.3	205.6	231.4	206.8	24.62	9.401			
3,705.0	3,653.3	3,715.8	3,692.2	12.6	12.0	166.74	108.0	206.0	231.8	207.2	24.66	9.400			
3,800.0	3,745.5	3,810.3	3,785.5	13.0	12.4	168.11	120.2	214.4	239.6	214.1	25.51	9.392			
3,895.0	3,837.7	3,904.8	3,878.9	13.4	12.8	169.39	132.4	222.7	247.4	221.1	26.35	9.391			
3,900.0	3,842.5	3,909.8	3,883.8	13.5	12.8	169.46	133.1	223.2	247.9	221.5	26.39	9.391			
3,990.0	3,929.9	3,999.3	3,972.2	13.9	13.1	170.59	144.6	231.0	255.4	228.2	27.19	9.394			
4,000.0	3,939.6	4,009.3	3,982.1	13.9	13.2	170.72	145.9	231.9	256.3	229.0	27.28	9.395			
4,085.0	4,022.0	4,093.9	4,065.6	14.3	13.5	171.72	156.9	239.4	263.5	235.5	28.03	9.401			
4,100.0	4,036.6	4,108.8	4,080.3	14.4	13.6	171.89	158.8	240.7	264.8	236.6	28.16	9.403			
4,180.0	4,114.2	4,188.4	4,159.0	14.7	13.9	172.78	169.1	247.7	271.7	242.8	28.87	9.413			
4,200.0	4,133.6	4,208.3	4,178.6	14.8	14.0	173.00	171.7	249.5	273.4	244.4	29.04	9.417			
4,275.0	4,206.4	4,279.5	4,249.1	15.2	14.3	173.74	180.5	255.5	280.4	250.7	29.67	9.452			
4,300.0	4,230.6	4,303.2	4,272.5	15.3	14.4	173.97	183.3	257.4	282.9	253.1	29.87	9.471			
4,370.0	4,298.6	4,369.5	4,338.1	15.6	14.7	174.58	190.7	262.4	290.6	260.2	30.45	9.544			
4,400.0	4,327.7	4,400.0	4,368.4	15.7	14.8	174.84	193.9	264.6	294.2	263.5	30.72	9.577			
4,465.0	4,390.7	4,459.1	4,427.1	16.0	15.0	175.31	199.7	268.6	302.3	271.1	31.22	9.684			
4,500.0	4,424.7	4,492.0	4,459.8	16.2	15.1	175.56	202.7	270.6	307.0	275.5	31.50	9.748			
4,560.0	4,482.9	4,548.4	4,515.9	16.5	15.4	175.94	207.4	273.9	315.6	283.6	31.97	9.871			
4,600.0	4,521.7	4,585.8	4,553.2	16.7	15.5	176.18	210.4	275.9	321.6	289.3	32.28	9.962			
4,655.0	4,575.1	4,637.2	4,604.4	16.9	15.7	176.48	214.1	278.4	330.3	297.6	32.70	10.100			
4,700.0	4,618.8	4,679.2	4,646.2	17.1	15.9	176.70	216.8	280.3	337.7	304.7	33.04	10.223			
4,750.0	4,667.3	4,725.7	4,692.6	17.4	16.0	176.92	219.5	282.1	346.4	313.0	33.39	10.373			
4,755.7	4,672.8	4,731.0	4,697.9	17.4	16.0	176.94	219.8	282.3	347.4	314.0	33.43	10.390			
4,800.0	4,715.9	4,772.1	4,739.0	17.6	16.2	177.12	222.0	283.8	355.1	321.4	33.75	10.524			
4,845.0	4,759.8	4,813.9	4,780.7	17.8	16.3	177.28	223.9	285.1	362.6	328.5	34.07	10.641			
4,900.0	4,813.6	4,865.1	4,831.8	18.1	16.5	177.45	225.9	286.4	371.2	336.7	34.47	10.770			
4,940.0	4,852.9	4,900.0	4,866.7	18.3	16.6	177.54	227.0	287.2	377.1	342.4	34.71	10.864			

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #707H - OWB - PWP1														Offset Site Error: 0.0 usft	
Survey Program: Reference		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8417-r.5 MWD+IFR1+MS						Rule Assigned:						Offset Well Error: 3.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
5,000.0	4,912.1	4,958.0	4,924.7	18.5	16.8	177.67	228.5	288.3	385.4	350.3	35.14	10.968			
5,035.0	4,946.7	4,990.6	4,957.2	18.7	16.9	177.73	229.2	288.7	389.9	354.6	35.36	11.027			
5,100.0	5,011.1	5,051.1	5,017.7	19.0	17.0	177.81	229.9	289.2	397.7	362.0	35.74	11.129			
5,130.0	5,040.9	5,079.0	5,045.6	19.1	17.1	177.84	230.1	289.4	401.1	365.2	35.90	11.171			
5,200.0	5,110.5	5,146.5	5,113.1	19.4	17.2	177.88	230.2	289.4	408.1	371.8	36.24	11.260			
5,225.0	5,135.4	5,171.4	5,138.0	19.5	17.2	177.90	230.2	289.4	410.2	373.8	36.35	11.285			
5,300.0	5,210.2	5,246.2	5,212.8	19.8	17.2	177.93	230.2	289.4	415.2	378.6	36.67	11.322			
5,320.0	5,230.2	5,266.2	5,232.8	19.9	17.2	177.93	230.2	289.4	416.2	379.5	36.75	11.326			
5,400.0	5,310.2	5,346.1	5,312.8	20.1	17.3	177.95	230.2	289.4	418.9	381.9	37.06	11.304			
5,415.0	5,325.1	5,361.1	5,327.7	20.1	17.3	177.95	230.2	289.4	419.2	382.1	37.09	11.301			
5,455.9	5,366.0	5,402.0	5,368.6	20.2	17.3	-132.87	230.2	289.4	419.5	382.3	37.17	11.285			
5,500.0	5,410.1	5,446.1	5,412.7	20.2	17.3	-132.87	230.2	289.4	419.5	382.3	37.20	11.275			
5,510.0	5,420.1	5,456.1	5,422.7	20.2	17.3	-132.87	230.2	289.4	419.5	382.2	37.21	11.272			
5,600.0	5,510.1	5,546.1	5,512.7	20.3	17.4	-132.87	230.2	289.4	419.5	382.2	37.30	11.245			
5,605.0	5,515.1	5,551.1	5,517.7	20.3	17.4	-132.87	230.2	289.4	419.5	382.2	37.31	11.243			
5,700.0	5,610.1	5,646.1	5,612.7	20.3	17.4	-132.87	230.2	289.4	419.5	382.1	37.40	11.215			
5,795.0	5,705.1	5,741.1	5,707.7	20.3	17.5	-132.87	230.2	289.4	419.5	382.0	37.50	11.186			
5,800.0	5,710.1	5,746.1	5,712.7	20.3	17.5	-132.87	230.2	289.4	419.5	382.0	37.50	11.185			
5,890.0	5,800.1	5,836.1	5,802.7	20.4	17.5	-132.87	230.2	289.4	419.5	381.9	37.59	11.158			
5,900.0	5,810.1	5,846.1	5,812.7	20.4	17.5	-132.87	230.2	289.4	419.5	381.9	37.60	11.155			
5,985.0	5,895.1	5,931.1	5,897.7	20.4	17.6	-132.87	230.2	289.4	419.5	381.8	37.69	11.129			
6,000.0	5,910.1	5,946.1	5,912.7	20.4	17.6	-132.87	230.2	289.4	419.5	381.8	37.71	11.125			
6,080.0	5,990.1	6,026.1	5,992.7	20.5	17.6	-132.87	230.2	289.4	419.5	381.7	37.79	11.101			
6,100.0	6,010.1	6,046.1	6,012.7	20.5	17.6	-132.87	230.2	289.4	419.5	381.7	37.81	11.095			
6,175.0	6,085.1	6,121.1	6,087.7	20.5	17.7	-132.87	230.2	289.4	419.5	381.6	37.88	11.072			
6,200.0	6,110.1	6,146.1	6,112.7	20.5	17.7	-132.87	230.2	289.4	419.5	381.6	37.91	11.065			
6,270.0	6,180.1	6,216.1	6,182.7	20.6	17.7	-132.87	230.2	289.4	419.5	381.5	37.98	11.044			
6,300.0	6,210.1	6,246.1	6,212.7	20.6	17.8	-132.87	230.2	289.4	419.5	381.4	38.01	11.035			
6,365.0	6,275.1	6,311.1	6,277.7	20.6	17.8	-132.87	230.2	289.4	419.5	381.4	38.08	11.016			
6,400.0	6,310.1	6,346.1	6,312.7	20.6	17.8	-132.87	230.2	289.4	419.5	381.3	38.12	11.005			
6,460.0	6,370.1	6,406.1	6,372.7	20.6	17.8	-132.87	230.2	289.4	419.5	381.3	38.18	10.987			
6,500.0	6,410.1	6,446.1	6,412.7	20.7	17.9	-132.87	230.2	289.4	419.5	381.2	38.22	10.975			
6,555.0	6,465.1	6,501.1	6,467.7	20.7	17.9	-132.87	230.2	289.4	419.5	381.2	38.28	10.959			
6,600.0	6,510.1	6,546.1	6,512.7	20.7	17.9	-132.87	230.2	289.4	419.5	381.1	38.32	10.946			
6,650.0	6,560.1	6,596.1	6,562.7	20.7	18.0	-132.87	230.2	289.4	419.5	381.1	38.37	10.931			
6,700.0	6,610.1	6,646.1	6,612.7	20.8	18.0	-132.87	230.2	289.4	419.5	381.0	38.43	10.916			
6,745.0	6,655.1	6,691.1	6,657.7	20.8	18.0	-132.87	230.2	289.4	419.5	381.0	38.47	10.903			
6,800.0	6,710.1	6,746.1	6,712.7	20.8	18.0	-132.87	230.2	289.4	419.5	380.9	38.53	10.886			
6,840.0	6,750.1	6,786.1	6,752.7	20.8	18.1	-132.87	230.2	289.4	419.5	380.9	38.57	10.874			
6,900.0	6,810.1	6,846.1	6,812.7	20.9	18.1	-132.87	230.2	289.4	419.5	380.8	38.64	10.857			
6,935.0	6,845.1	6,881.1	6,847.7	20.9	18.1	-132.87	230.2	289.4	419.5	380.8	38.67	10.846			
7,000.0	6,910.1	6,946.1	6,912.7	20.9	18.2	-132.87	230.2	289.4	419.5	380.7	38.74	10.827			
7,030.0	6,940.1	6,976.1	6,942.7	20.9	18.2	-132.87	230.2	289.4	419.5	380.7	38.77	10.818			
7,100.0	7,010.1	7,046.1	7,012.7	20.9	18.2	-132.87	230.2	289.4	419.5	380.6	38.85	10.798			
7,125.0	7,035.1	7,071.1	7,037.7	21.0	18.2	-132.87	230.2	289.4	419.5	380.6	38.87	10.790			
7,200.0	7,110.1	7,146.1	7,112.7	21.0	18.3	-132.87	230.2	289.4	419.5	380.5	38.95	10.768			
7,220.0	7,130.1	7,166.1	7,132.7	21.0	18.3	-132.87	230.2	289.4	419.5	380.5	38.97	10.762			
7,300.0	7,210.1	7,246.1	7,212.7	21.0	18.3	-132.87	230.2	289.4	419.5	380.4	39.06	10.739			
7,315.0	7,225.1	7,261.1	7,227.7	21.1	18.3	-132.87	230.2	289.4	419.5	380.4	39.08	10.734			
7,400.0	7,310.1	7,346.1	7,312.7	21.1	18.4	-132.87	230.2	289.4	419.5	380.3	39.17	10.710			
7,410.0	7,320.1	7,356.1	7,322.7	21.1	18.4	-132.87	230.2	289.4	419.5	380.3	39.18	10.707			

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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
7,500.0	7,410.1	7,446.1	7,412.7	21.1	18.4	-132.87	230.2	289.4	419.5	380.2	39.27	10.680	
7,505.0	7,415.1	7,451.1	7,417.7	21.1	18.4	-132.87	230.2	289.4	419.5	380.2	39.28	10.679	
7,600.0	7,510.1	7,546.1	7,512.7	21.2	18.5	-132.87	230.2	289.4	419.5	380.1	39.38	10.651	
7,695.0	7,605.1	7,641.1	7,607.7	21.2	18.6	-132.87	230.2	289.4	419.5	380.0	39.48	10.623	
7,700.0	7,610.1	7,646.1	7,612.7	21.2	18.6	-132.87	230.2	289.4	419.5	380.0	39.49	10.622	
7,790.0	7,700.1	7,736.1	7,702.7	21.3	18.6	-132.87	230.2	289.4	419.5	379.9	39.59	10.596	
7,800.0	7,710.1	7,746.1	7,712.7	21.3	18.6	-132.87	230.2	289.4	419.5	379.9	39.60	10.593	
7,885.0	7,795.1	7,831.1	7,797.7	21.3	18.7	-132.87	230.2	289.4	419.5	379.8	39.69	10.568	
7,900.0	7,810.1	7,846.1	7,812.7	21.3	18.7	-132.87	230.2	289.4	419.5	379.8	39.71	10.564	
7,980.0	7,890.1	7,926.1	7,892.7	21.4	18.7	-132.87	230.2	289.4	419.5	379.7	39.79	10.541	
8,000.0	7,910.1	7,946.1	7,912.7	21.4	18.7	-132.87	230.2	289.4	419.5	379.6	39.82	10.535	
8,075.0	7,985.1	8,021.1	7,987.7	21.4	18.8	-132.87	230.2	289.4	419.5	379.6	39.90	10.513	
8,100.0	8,010.1	8,046.1	8,012.7	21.4	18.8	-132.87	230.2	289.4	419.5	379.5	39.93	10.506	
8,170.0	8,080.1	8,116.1	8,082.7	21.5	18.8	-132.87	230.2	289.4	419.5	379.5	40.00	10.486	
8,200.0	8,110.1	8,146.1	8,112.7	21.5	18.9	-132.87	230.2	289.4	419.5	379.4	40.04	10.477	
8,265.0	8,175.1	8,211.1	8,177.7	21.5	18.9	-132.87	230.2	289.4	419.5	379.4	40.11	10.458	
8,300.0	8,210.1	8,246.1	8,212.7	21.5	18.9	-132.87	230.2	289.4	419.5	379.3	40.15	10.448	
8,360.0	8,270.1	8,306.1	8,272.7	21.6	19.0	-132.87	230.2	289.4	419.5	379.2	40.21	10.431	
8,400.0	8,310.1	8,346.1	8,312.7	21.6	19.0	-132.87	230.2	289.4	419.5	379.2	40.26	10.420	
8,455.0	8,365.1	8,401.1	8,367.7	21.6	19.0	-132.87	230.2	289.4	419.5	379.1	40.32	10.404	
8,458.6	8,368.7	8,404.7	8,371.3	21.6	19.0	-132.87	230.2	289.4	419.5	379.1	40.32	10.403	
8,500.0	8,410.1	8,436.5	8,403.1	21.6	19.0	-132.91	229.9	289.4	419.8	379.6	40.24	10.433	
8,550.0	8,460.1	8,469.7	8,436.2	21.7	19.0	-133.11	227.8	289.4	421.9	381.9	40.07	10.531	
8,600.0	8,510.1	8,500.0	8,466.3	21.7	19.1	-133.46	224.3	289.3	426.1	386.3	39.84	10.695	
8,645.0	8,555.1	8,531.5	8,497.3	21.7	19.1	-133.98	218.9	289.3	431.6	391.9	39.69	10.872	
8,700.0	8,610.1	8,566.2	8,531.1	21.7	19.1	-134.72	211.0	289.2	440.5	401.1	39.43	11.170	
8,740.0	8,650.1	8,590.7	8,554.7	21.8	19.2	-135.35	204.2	289.2	448.6	409.4	39.23	11.436	
8,800.0	8,710.1	8,626.4	8,588.4	21.8	19.2	-136.39	192.5	289.1	463.2	424.3	38.88	11.912	
8,835.0	8,745.1	8,650.0	8,610.3	21.8	19.2	-137.16	183.6	289.0	473.1	434.4	38.74	12.213	
8,900.0	8,810.1	8,682.1	8,639.4	21.8	19.3	-138.29	170.1	288.9	494.2	455.9	38.24	12.922	
8,930.0	8,840.1	8,700.0	8,655.3	21.9	19.3	-138.95	161.9	288.8	505.1	467.0	38.08	13.263	
9,000.0	8,910.1	8,732.9	8,683.8	21.9	19.3	-140.22	145.5	288.6	533.2	495.7	37.56	14.198	
9,025.0	8,935.1	8,750.0	8,698.3	21.9	19.3	-140.90	136.4	288.6	544.2	506.7	37.48	14.520	
9,100.0	9,010.1	8,778.8	8,721.9	21.9	19.4	-142.06	120.0	288.4	579.8	542.9	36.88	15.720	
9,120.0	9,030.1	8,787.4	8,728.8	22.0	19.4	-142.42	114.9	288.4	590.0	553.2	36.76	16.051	
9,200.0	9,110.1	8,819.8	8,754.2	22.0	19.4	-143.76	94.6	288.2	633.3	597.0	36.28	17.457	
9,215.0	9,125.1	8,825.6	8,758.6	22.0	19.4	-144.00	90.9	288.2	641.8	605.6	36.19	17.733	
9,291.9	9,202.0	8,850.0	8,776.7	22.0	19.5	-145.01	74.5	288.0	687.8	652.0	35.76	19.236	
9,300.0	9,210.1	8,850.0	8,776.7	22.0	19.5	34.12	74.5	288.0	692.8	657.4	35.44	19.549	
9,310.0	9,220.1	8,850.0	8,776.7	22.0	19.5	33.68	74.5	288.0	699.0	663.7	35.35	19.775	
9,350.0	9,260.0	8,874.2	8,793.9	22.1	19.5	31.23	57.6	287.9	722.6	687.3	35.32	20.461	
9,400.0	9,309.5	8,900.0	8,811.6	22.1	19.5	28.78	38.7	287.7	750.9	715.7	35.22	21.319	
9,405.0	9,314.4	8,900.0	8,811.6	22.1	19.5	28.63	38.7	287.7	753.6	718.4	35.18	21.419	
9,450.0	9,358.1	8,900.0	8,811.6	22.1	19.5	27.32	38.7	287.7	777.3	742.5	34.85	22.308	
9,500.0	9,405.6	8,929.3	8,830.5	22.2	19.5	25.49	16.3	287.5	801.6	766.7	34.83	23.013	
9,550.0	9,451.5	8,950.0	8,843.2	22.2	19.6	24.11	0.0	287.4	823.9	789.2	34.74	23.719	
9,595.0	9,491.2	8,965.5	8,852.3	22.2	19.6	23.11	-12.5	287.2	842.2	807.6	34.64	24.311	
9,600.0	9,495.5	8,967.4	8,853.4	22.2	19.6	23.00	-14.1	287.2	844.1	809.5	34.63	24.372	
9,650.0	9,537.3	9,000.0	8,871.3	22.3	19.6	21.93	-41.3	287.0	862.3	827.7	34.69	24.858	
9,690.0	9,568.9	9,000.0	8,871.3	22.3	19.6	21.44	-41.3	287.0	874.8	840.3	34.52	25.341	
9,700.0	9,576.5	9,000.0	8,871.3	22.3	19.6	21.33	-41.3	287.0	877.8	843.4	34.49	25.456	

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 #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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			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			
9,750.0	9,612.9	9,025.7	8,884.3	22.4	19.6	20.65	-63.5	286.8	891.2	856.6	34.52	25.815			
9,785.0	9,636.5	9,050.0	8,895.7	22.4	19.7	20.24	-84.9	286.6	899.2	864.6	34.60	25.988			
9,800.0	9,646.1	9,050.0	8,895.7	22.4	19.7	20.13	-84.9	286.6	902.2	867.6	34.56	26.103			
9,850.0	9,676.0	9,065.1	8,902.3	22.4	19.7	19.78	-98.5	286.5	910.7	876.1	34.55	26.356			
9,880.0	9,692.2	9,077.0	8,907.3	22.5	19.7	19.61	-109.3	286.4	914.6	880.1	34.58	26.452			
9,900.0	9,702.2	9,084.9	8,910.5	22.5	19.7	19.52	-116.5	286.3	916.8	882.2	34.60	26.499			
9,950.0	9,724.7	9,100.0	8,916.2	22.5	19.7	19.37	-130.5	286.2	920.5	885.8	34.63	26.581			
9,975.0	9,734.4	9,100.0	8,916.2	22.5	19.7	19.33	-130.5	286.2	921.6	887.0	34.61	26.632			
10,000.0	9,743.2	9,124.6	8,924.9	22.6	19.7	19.32	-153.5	286.0	921.6	886.9	34.73	26.533			
10,050.0	9,757.5	9,150.0	8,932.7	22.6	19.8	19.38	-177.7	285.8	920.3	885.5	34.85	26.405			
10,070.0	9,762.1	9,150.0	8,932.7	22.6	19.8	19.42	-177.7	285.8	919.1	884.2	34.85	26.374			
10,100.0	9,767.6	9,150.0	8,932.7	22.7	19.8	19.50	-177.7	285.8	916.8	881.9	34.85	26.309			
10,150.0	9,773.5	9,184.1	8,941.6	22.7	19.8	19.80	-210.6	285.5	910.2	875.2	35.03	25.985			
10,165.0	9,774.4	9,200.0	8,945.0	22.7	19.8	19.94	-226.1	285.4	908.0	872.9	35.11	25.863			
10,191.6	9,775.0	9,200.0	8,945.0	22.7	19.8	20.11	-226.1	285.4	903.1	868.0	35.10	25.728			
10,200.0	9,775.0	9,200.0	8,945.0	22.7	19.8	20.11	-226.1	285.4	901.6	866.5	35.10	25.686			
10,260.0	9,775.0	9,227.7	8,950.0	22.8	19.8	20.22	-253.4	285.1	891.6	856.4	35.22	25.318			
10,300.0	9,775.1	9,250.0	8,953.0	22.8	19.8	20.29	-275.5	284.9	886.4	851.0	35.32	25.096			
10,355.0	9,775.1	9,266.2	8,954.7	22.9	19.8	20.33	-291.5	284.8	880.7	845.3	35.41	24.871			
10,400.0	9,775.1	9,284.6	8,956.1	22.9	19.8	20.36	-309.9	284.6	877.7	842.1	35.52	24.709			
10,450.0	9,775.1	9,305.1	8,956.9	23.0	19.9	20.37	-330.4	284.4	875.8	840.2	35.65	24.564			
10,500.0	9,775.2	9,338.4	8,957.0	23.1	19.9	20.38	-363.7	284.1	875.5	839.7	35.82	24.440			
10,545.0	9,775.2	9,383.4	8,957.1	23.1	19.9	20.38	-408.7	283.7	875.5	839.5	36.04	24.292			
10,600.0	9,775.2	9,438.4	8,957.1	23.2	19.9	20.38	-463.7	283.2	875.5	839.2	36.32	24.104			
10,640.0	9,775.2	9,478.4	8,957.2	23.3	20.0	20.38	-503.7	282.9	875.5	838.9	36.54	23.959			
10,700.0	9,775.3	9,538.4	8,957.3	23.4	20.0	20.38	-563.7	282.4	875.4	838.5	36.88	23.737			
10,735.0	9,775.3	9,573.4	8,957.3	23.4	20.0	20.38	-598.7	282.0	875.4	838.3	37.09	23.601			
10,800.0	9,775.3	9,638.4	8,957.4	23.5	20.1	20.38	-663.7	281.5	875.4	837.9	37.50	23.346			
10,830.0	9,775.3	9,668.4	8,957.4	23.6	20.1	20.38	-693.6	281.2	875.3	837.6	37.69	23.223			
10,900.0	9,775.4	9,738.4	8,957.5	23.7	20.2	20.38	-763.6	280.6	875.3	837.1	38.17	22.934			
10,925.0	9,775.4	9,763.4	8,957.5	23.8	20.2	20.38	-788.6	280.4	875.3	836.9	38.34	22.827			
11,000.0	9,775.4	9,838.4	8,957.6	23.9	20.3	20.38	-863.6	279.7	875.2	836.4	38.89	22.507			
11,020.0	9,775.4	9,858.4	8,957.6	24.0	20.3	20.39	-883.6	279.5	875.2	836.2	39.04	22.419			
11,100.0	9,775.5	9,938.4	8,957.7	24.1	20.4	20.39	-963.6	278.8	875.2	835.5	39.66	22.068			
11,115.0	9,775.5	9,953.4	8,957.7	24.2	20.5	20.39	-978.6	278.7	875.2	835.4	39.78	22.000			
11,200.0	9,775.5	10,038.4	8,957.8	24.4	20.6	20.39	-1,063.6	277.9	875.1	834.7	40.48	21.621			
11,210.0	9,775.5	10,048.4	8,957.8	24.4	20.6	20.39	-1,073.6	277.8	875.1	834.6	40.56	21.575			
11,300.0	9,775.6	10,138.4	8,957.9	24.6	20.8	20.39	-1,163.6	277.0	875.1	833.7	41.34	21.169			
11,305.0	9,775.6	10,143.4	8,957.9	24.6	20.8	20.39	-1,168.6	277.0	875.1	833.7	41.38	21.147			
11,400.0	9,775.6	10,238.4	8,958.1	24.9	20.9	20.39	-1,263.6	276.2	875.0	832.8	42.24	20.716			
11,495.0	9,775.7	10,333.4	8,958.2	25.2	21.1	20.39	-1,358.6	275.3	875.0	831.8	43.13	20.287			
11,500.0	9,775.7	10,338.4	8,958.2	25.2	21.2	20.39	-1,363.6	275.3	875.0	831.8	43.18	20.265			
11,590.0	9,775.7	10,428.4	8,958.3	25.5	21.4	20.39	-1,453.6	274.5	874.9	830.9	44.05	19.860			
11,600.0	9,775.7	10,438.4	8,958.3	25.5	21.4	20.39	-1,463.6	274.4	874.9	830.7	44.15	19.816			
11,685.0	9,775.8	10,523.4	8,958.4	25.8	21.6	20.39	-1,548.6	273.6	874.9	829.8	45.01	19.438			
11,700.0	9,775.8	10,538.4	8,958.4	25.8	21.7	20.40	-1,563.6	273.5	874.8	829.7	45.16	19.372			
11,780.0	9,775.8	10,618.4	8,958.5	26.1	21.9	20.40	-1,643.6	272.8	874.8	828.8	45.99	19.022			
11,800.0	9,775.8	10,638.4	8,958.5	26.2	22.0	20.40	-1,663.6	272.6	874.8	828.6	46.20	18.935			
11,875.0	9,775.9	10,713.4	8,958.6	26.5	22.2	20.40	-1,738.6	271.9	874.7	827.7	47.00	18.612			
11,900.0	9,775.9	10,738.4	8,958.6	26.6	22.3	20.40	-1,763.6	271.7	874.7	827.5	47.27	18.506			
11,970.0	9,775.9	10,808.4	8,958.7	26.8	22.5	20.40	-1,833.6	271.1	874.7	826.7	48.03	18.211			

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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			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			
12,000.0	9,776.0	10,838.4	8,958.7	26.9	22.6	20.40	-1,863.6	270.8	874.7	826.3	48.36	18.086			
12,065.0	9,776.0	10,903.4	8,958.8	27.2	22.9	20.40	-1,928.6	270.3	874.6	825.5	49.09	17.818			
12,100.0	9,776.0	10,938.4	8,958.9	27.4	23.0	20.40	-1,963.6	269.9	874.6	825.1	49.48	17.675			
12,160.0	9,776.0	10,998.4	8,958.9	27.6	23.3	20.40	-2,023.6	269.4	874.6	824.4	50.17	17.434			
12,200.0	9,776.1	11,038.4	8,959.0	27.8	23.4	20.40	-2,063.6	269.1	874.6	823.9	50.63	17.275			
12,255.0	9,776.1	11,093.4	8,959.0	28.0	23.7	20.40	-2,118.6	268.6	874.5	823.3	51.27	17.059			
12,300.0	9,776.1	11,138.4	8,959.1	28.2	23.9	20.40	-2,163.6	268.2	874.5	822.7	51.79	16.884			
12,350.0	9,776.1	11,188.4	8,959.1	28.4	24.1	20.40	-2,213.6	267.7	874.5	822.1	52.38	16.693			
12,400.0	9,776.2	11,238.4	8,959.2	28.7	24.3	20.41	-2,263.6	267.3	874.4	821.5	52.98	16.505			
12,445.0	9,776.2	11,283.4	8,959.2	28.9	24.6	20.41	-2,308.6	266.9	874.4	820.9	53.52	16.338			
12,500.0	9,776.2	11,338.4	8,959.3	29.2	24.8	20.41	-2,363.6	266.4	874.4	820.2	54.19	16.137			
12,540.0	9,776.2	11,378.4	8,959.4	29.3	25.0	20.41	-2,403.6	266.0	874.4	819.7	54.67	15.992			
12,600.0	9,776.3	11,438.4	8,959.4	29.6	25.3	20.41	-2,463.6	265.5	874.3	818.9	55.41	15.779			
12,635.0	9,776.3	11,473.4	8,959.5	29.8	25.5	20.41	-2,498.6	265.2	874.3	818.5	55.84	15.657			
12,700.0	9,776.3	11,538.4	8,959.5	30.1	25.9	20.41	-2,563.6	264.6	874.3	817.6	56.65	15.433			
12,730.0	9,776.3	11,568.4	8,959.6	30.3	26.0	20.41	-2,593.6	264.4	874.3	817.2	57.03	15.331			
12,800.0	9,776.4	11,638.4	8,959.7	30.7	26.4	20.41	-2,663.6	263.7	874.2	816.3	57.91	15.097			
12,825.0	9,776.4	11,663.4	8,959.7	30.8	26.6	20.41	-2,688.6	263.5	874.2	816.0	58.22	15.015			
12,900.0	9,776.4	11,738.4	8,959.8	31.2	27.0	20.41	-2,763.6	262.8	874.2	815.0	59.18	14.772			
12,920.0	9,776.4	11,758.4	8,959.8	31.3	27.1	20.41	-2,783.6	262.7	874.1	814.7	59.43	14.708			
13,000.0	9,776.5	11,838.4	8,959.9	31.7	27.6	20.41	-2,863.6	262.0	874.1	813.6	60.46	14.457			
13,015.0	9,776.5	11,853.4	8,959.9	31.8	27.7	20.41	-2,878.6	261.8	874.1	813.4	60.66	14.411			
13,100.0	9,776.5	11,938.4	8,960.0	32.3	28.2	20.42	-2,963.6	261.1	874.0	812.3	61.76	14.152			
13,110.0	9,776.5	11,948.4	8,960.0	32.3	28.2	20.42	-2,973.6	261.0	874.0	812.1	61.89	14.122			
13,200.0	9,776.6	12,038.4	8,960.1	32.8	28.8	20.42	-3,063.6	260.2	874.0	810.9	63.07	13.858			
13,205.0	9,776.6	12,043.4	8,960.1	32.9	28.8	20.42	-3,068.6	260.1	874.0	810.8	63.13	13.843			
13,300.0	9,776.6	12,138.4	8,960.2	33.4	29.4	20.42	-3,163.6	259.3	873.9	809.5	64.39	13.573			
13,395.0	9,776.7	12,233.4	8,960.3	34.0	30.0	20.42	-3,258.5	258.5	873.9	808.2	65.65	13.310			
13,400.0	9,776.7	12,238.4	8,960.3	34.0	30.0	20.42	-3,263.5	258.4	873.9	808.1	65.72	13.297			
13,490.0	9,776.7	12,328.4	8,960.4	34.5	30.6	20.42	-3,353.5	257.6	873.8	806.9	66.93	13.056			
13,500.0	9,776.7	12,338.4	8,960.5	34.6	30.6	20.42	-3,363.5	257.5	873.8	806.7	67.06	13.030			
13,585.0	9,776.8	12,423.4	8,960.5	35.1	31.2	20.42	-3,448.5	256.8	873.8	805.6	68.21	12.810			
13,600.0	9,776.8	12,438.4	8,960.6	35.2	31.3	20.42	-3,463.5	256.6	873.8	805.3	68.41	12.772			
13,680.0	9,776.8	12,518.4	8,960.7	35.7	31.8	20.42	-3,543.5	255.9	873.7	804.2	69.50	12.571			
13,700.0	9,776.9	12,538.4	8,960.7	35.8	31.9	20.42	-3,563.5	255.8	873.7	803.9	69.77	12.522			
13,775.0	9,776.9	12,613.4	8,960.8	36.2	32.4	20.43	-3,638.5	255.1	873.7	802.9	70.80	12.340			
13,800.0	9,776.9	12,638.4	8,960.8	36.4	32.6	20.43	-3,663.5	254.9	873.6	802.5	71.14	12.280			
13,870.0	9,776.9	12,708.4	8,960.9	36.8	33.0	20.43	-3,733.5	254.2	873.6	801.5	72.10	12.116			
13,900.0	9,777.0	12,738.4	8,960.9	37.0	33.2	20.43	-3,763.5	254.0	873.6	801.1	72.52	12.047			
13,965.0	9,777.0	12,803.4	8,961.0	37.4	33.7	20.43	-3,828.5	253.4	873.5	800.1	73.42	11.899			
14,000.0	9,777.0	12,838.4	8,961.0	37.6	33.9	20.43	-3,863.5	253.1	873.5	799.6	73.90	11.820			
14,060.0	9,777.0	12,898.4	8,961.1	38.0	34.3	20.43	-3,923.5	252.6	873.5	798.8	74.73	11.688			
14,100.0	9,777.1	12,938.4	8,961.1	38.3	34.6	20.43	-3,963.5	252.2	873.5	798.2	75.29	11.601			
14,155.0	9,777.1	12,993.4	8,961.2	38.6	34.9	20.43	-4,018.5	251.7	873.4	797.4	76.06	11.484			
14,200.0	9,777.1	13,038.4	8,961.3	38.9	35.2	20.43	-4,063.5	251.3	873.4	796.7	76.69	11.389			
14,250.0	9,777.1	13,088.4	8,961.3	39.2	35.6	20.43	-4,113.5	250.9	873.4	796.0	77.39	11.285			
14,300.0	9,777.2	13,138.4	8,961.4	39.5	35.9	20.43	-4,163.5	250.4	873.4	795.3	78.09	11.184			
14,345.0	9,777.2	13,183.4	8,961.4	39.8	36.2	20.43	-4,208.5	250.0	873.3	794.6	78.73	11.093			
14,400.0	9,777.2	13,238.4	8,961.5	40.2	36.6	20.43	-4,263.5	249.5	873.3	793.8	79.50	10.985			
14,440.0	9,777.2	13,278.4	8,961.5	40.4	36.9	20.44	-4,303.5	249.2	873.3	793.2	80.07	10.907			
14,500.0	9,777.3	13,338.4	8,961.6	40.8	37.3	20.44	-4,363.5	248.7	873.2	792.3	80.92	10.792			

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	Distance	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,535.0	9,777.3	13,373.4	8,961.6	41.1	37.5	20.44	-4,398.5	248.3	873.2	791.8	81.41	10.726	
14,600.0	9,777.3	13,438.4	8,961.7	41.5	38.0	20.44	-4,463.5	247.8	873.2	790.8	82.34	10.605	
14,630.0	9,777.3	13,468.4	8,961.7	41.7	38.2	20.44	-4,493.5	247.5	873.2	790.4	82.76	10.550	
14,700.0	9,777.4	13,538.4	8,961.8	42.2	38.7	20.44	-4,563.5	246.9	873.1	789.4	83.76	10.424	
14,725.0	9,777.4	13,563.4	8,961.9	42.3	38.8	20.44	-4,588.5	246.7	873.1	789.0	84.12	10.379	
14,800.0	9,777.4	13,638.4	8,961.9	42.8	39.4	20.44	-4,663.5	246.0	873.1	787.9	85.19	10.248	
14,820.0	9,777.4	13,658.4	8,962.0	42.9	39.5	20.44	-4,683.5	245.8	873.1	787.6	85.48	10.214	
14,900.0	9,777.5	13,738.4	8,962.1	43.5	40.1	20.44	-4,763.5	245.1	873.0	786.4	86.63	10.078	
14,915.0	9,777.5	13,753.4	8,962.1	43.6	40.2	20.44	-4,778.5	245.0	873.0	786.2	86.84	10.052	
15,000.0	9,777.5	13,838.4	8,962.2	44.2	40.8	20.44	-4,863.5	244.2	873.0	784.9	88.07	9.912	
15,010.0	9,777.5	13,848.4	8,962.2	44.2	40.8	20.44	-4,873.5	244.1	872.9	784.7	88.21	9.896	
15,100.0	9,777.6	13,938.4	8,962.3	44.8	41.5	20.45	-4,963.5	243.3	872.9	783.4	89.51	9.752	
15,105.0	9,777.6	13,943.4	8,962.3	44.9	41.5	20.45	-4,968.5	243.3	872.9	783.3	89.58	9.744	
15,200.0	9,777.6	14,038.4	8,962.4	45.5	42.2	20.45	-5,063.5	242.4	872.8	781.9	90.96	9.596	
15,295.0	9,777.7	14,133.4	8,962.5	46.2	42.9	20.45	-5,158.5	241.6	872.8	780.4	92.34	9.452	
15,300.0	9,777.7	14,138.4	8,962.5	46.2	42.9	20.45	-5,163.5	241.6	872.8	780.4	92.41	9.445	
15,390.0	9,777.7	14,228.4	8,962.6	46.8	43.5	20.45	-5,253.5	240.8	872.7	779.0	93.72	9.312	
15,400.0	9,777.7	14,238.4	8,962.6	46.9	43.6	20.45	-5,263.5	240.7	872.7	778.9	93.87	9.298	
15,485.0	9,777.8	14,323.4	8,962.7	47.5	44.2	20.45	-5,348.5	239.9	872.7	777.6	95.10	9.176	
15,500.0	9,777.8	14,338.4	8,962.7	47.6	44.3	20.45	-5,363.5	239.8	872.7	777.3	95.32	9.155	
15,580.0	9,777.8	14,418.4	8,962.8	48.1	44.9	20.45	-5,443.5	239.1	872.6	776.1	96.49	9.043	
15,600.0	9,777.9	14,438.4	8,962.9	48.2	45.0	20.45	-5,463.5	238.9	872.6	775.8	96.78	9.016	
15,675.0	9,777.9	14,513.4	8,962.9	48.8	45.6	20.45	-5,538.5	238.2	872.6	774.7	97.88	8.914	
15,700.0	9,777.9	14,538.4	8,963.0	48.9	45.7	20.45	-5,563.5	238.0	872.6	774.3	98.25	8.881	
15,770.0	9,777.9	14,608.4	8,963.0	49.4	46.2	20.45	-5,633.5	237.4	872.5	773.2	99.28	8.789	
15,800.0	9,778.0	14,638.4	8,963.1	49.6	46.5	20.46	-5,663.5	237.1	872.5	772.8	99.72	8.750	
15,865.0	9,778.0	14,703.4	8,963.2	50.1	46.9	20.46	-5,728.4	236.5	872.5	771.8	100.67	8.666	
15,900.0	9,778.0	14,738.4	8,963.2	50.3	47.2	20.46	-5,763.4	236.2	872.4	771.2	101.19	8.622	
15,960.0	9,778.0	14,798.4	8,963.3	50.8	47.6	20.46	-5,823.4	235.7	872.4	770.3	102.07	8.547	
16,000.0	9,778.1	14,838.4	8,963.3	51.0	47.9	20.46	-5,863.4	235.4	872.4	769.7	102.66	8.498	
16,055.0	9,778.1	14,893.4	8,963.4	51.4	48.3	20.46	-5,918.4	234.9	872.3	768.9	103.47	8.431	
16,100.0	9,778.1	14,938.4	8,963.4	51.7	48.6	20.46	-5,963.4	234.5	872.3	768.2	104.14	8.377	
16,150.0	9,778.1	14,988.4	8,963.5	52.1	49.0	20.46	-6,013.4	234.0	872.3	767.4	104.88	8.317	
16,200.0	9,778.2	15,038.4	8,963.5	52.4	49.4	20.46	-6,063.4	233.6	872.3	766.6	105.62	8.259	
16,245.0	9,778.2	15,083.4	8,963.6	52.8	49.7	20.46	-6,108.4	233.2	872.2	766.0	106.28	8.207	
16,300.0	9,778.2	15,138.4	8,963.7	53.1	50.1	20.46	-6,163.4	232.7	872.2	765.1	107.10	8.144	
16,340.0	9,778.2	15,178.4	8,963.7	53.4	50.4	20.46	-6,203.4	232.3	872.2	764.5	107.69	8.099	
16,400.0	9,778.3	15,238.4	8,963.8	53.8	50.8	20.46	-6,263.4	231.8	872.2	763.6	108.58	8.032	
16,435.0	9,778.3	15,273.4	8,963.8	54.1	51.1	20.46	-6,298.4	231.5	872.1	763.0	109.10	7.994	
16,500.0	9,778.3	15,338.4	8,963.9	54.6	51.5	20.47	-6,363.4	230.9	872.1	762.0	110.06	7.923	
16,530.0	9,778.3	15,368.4	8,963.9	54.8	51.8	20.47	-6,393.4	230.7	872.1	761.6	110.51	7.891	
16,600.0	9,778.4	15,438.4	8,964.0	55.3	52.3	20.47	-6,463.4	230.0	872.0	760.5	111.55	7.817	
16,625.0	9,778.4	15,463.4	8,964.0	55.4	52.4	20.47	-6,488.4	229.8	872.0	760.1	111.92	7.791	
16,700.0	9,778.4	15,538.4	8,964.1	56.0	53.0	20.47	-6,563.4	229.1	872.0	758.9	113.04	7.714	
16,720.0	9,778.4	15,558.4	8,964.1	56.1	53.1	20.47	-6,583.4	229.0	872.0	758.6	113.34	7.693	
16,800.0	9,778.5	15,638.4	8,964.2	56.7	53.7	20.47	-6,663.4	228.3	871.9	757.4	114.53	7.613	
16,815.0	9,778.5	15,653.4	8,964.2	56.8	53.8	20.47	-6,678.4	228.1	871.9	757.2	114.76	7.598	
16,900.0	9,778.5	15,738.4	8,964.3	57.4	54.5	20.47	-6,763.4	227.4	871.9	755.8	116.03	7.514	
16,910.0	9,778.5	15,748.4	8,964.3	57.5	54.5	20.47	-6,773.4	227.3	871.9	755.7	116.18	7.505	
17,000.0	9,778.6	15,838.4	8,964.5	58.1	55.2	20.47	-6,863.4	226.5	871.8	754.3	117.52	7.418	
17,005.0	9,778.6	15,843.4	8,964.5	58.2	55.2	20.47	-6,868.4	226.4	871.8	754.2	117.60	7.413	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #707H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8417-r.5 MWD+IFR1+MS						Rule Assigned:		Offset Well Error:		3.0 usft		
Measured	Reference	Offset	Semi Major Axis	Offset Wellbore Centre		Distance		Minimum Separation		Warning				
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Separation Factor			
17,100.0	9,778.6	15,938.4	8,964.6	58.8	55.9	20.47	-6,963.4	225.6	871.7	752.7	119.02	7.324		
17,195.0	9,778.7	16,033.4	8,964.7	59.5	56.6	20.48	-7,058.4	224.8	871.7	751.3	120.44	7.237		
17,200.0	9,778.7	16,038.4	8,964.7	59.6	56.7	20.48	-7,063.4	224.7	871.7	751.2	120.52	7.233		
17,290.0	9,778.7	16,128.4	8,964.8	60.2	57.3	20.48	-7,153.4	223.9	871.6	749.8	121.87	7.152		
17,300.0	9,778.7	16,138.4	8,964.8	60.3	57.4	20.48	-7,163.4	223.8	871.6	749.6	122.02	7.143		
17,385.0	9,778.8	16,223.4	8,964.9	60.9	58.0	20.48	-7,248.4	223.1	871.6	748.3	123.29	7.069		
17,400.0	9,778.8	16,238.4	8,964.9	61.0	58.1	20.48	-7,263.4	222.9	871.6	748.1	123.52	7.056		
17,480.0	9,778.8	16,318.4	8,965.0	61.6	58.7	20.48	-7,343.4	222.2	871.5	746.8	124.72	6.988		
17,500.0	9,778.9	16,338.4	8,965.0	61.7	58.9	20.48	-7,363.4	222.0	871.5	746.5	125.02	6.971		
17,575.0	9,778.9	16,413.4	8,965.1	62.3	59.4	20.48	-7,438.4	221.4	871.5	745.3	126.15	6.908		
17,600.0	9,778.9	16,438.4	8,965.1	62.4	59.6	20.48	-7,463.4	221.2	871.5	744.9	126.53	6.888		
17,670.0	9,778.9	16,508.4	8,965.2	62.9	60.1	20.48	-7,533.4	220.5	871.4	743.8	127.58	6.830		
17,700.0	9,779.0	16,538.4	8,965.3	63.2	60.3	20.48	-7,563.4	220.3	871.4	743.4	128.03	6.806		
17,765.0	9,779.0	16,603.4	8,965.3	63.6	60.8	20.48	-7,628.4	219.7	871.4	742.4	129.01	6.754		
17,800.0	9,779.0	16,638.4	8,965.4	63.9	61.1	20.48	-7,663.4	219.4	871.3	741.8	129.54	6.726		
17,860.0	9,779.0	16,698.4	8,965.4	64.3	61.5	20.49	-7,723.4	218.9	871.3	740.9	130.45	6.679		
17,900.0	9,779.1	16,738.4	8,965.5	64.6	61.8	20.49	-7,763.4	218.5	871.3	740.2	131.05	6.649		
17,955.0	9,779.1	16,793.4	8,965.5	65.0	62.2	20.49	-7,818.4	218.0	871.3	739.4	131.88	6.606		
18,000.0	9,779.1	16,838.4	8,965.6	65.3	62.6	20.49	-7,863.4	217.6	871.2	738.7	132.56	6.572		
18,050.0	9,779.1	16,888.4	8,965.7	65.7	62.9	20.49	-7,913.4	217.2	871.2	737.9	133.32	6.535		
18,100.0	9,779.2	16,938.4	8,965.7	66.1	63.3	20.49	-7,963.4	216.7	871.2	737.1	134.07	6.498		
18,145.0	9,779.2	16,983.4	8,965.8	66.4	63.6	20.49	-8,008.4	216.3	871.2	736.4	134.75	6.465		
18,200.0	9,779.2	17,038.4	8,965.8	66.8	64.0	20.49	-8,063.4	215.8	871.1	735.5	135.58	6.425		
18,240.0	9,779.2	17,078.4	8,965.9	67.1	64.3	20.49	-8,103.4	215.5	871.1	734.9	136.19	6.396		
18,300.0	9,779.3	17,138.4	8,965.9	67.5	64.8	20.49	-8,163.3	215.0	871.1	734.0	137.10	6.354		
18,335.0	9,779.3	17,173.4	8,966.0	67.8	65.1	20.49	-8,198.3	214.6	871.0	733.4	137.63	6.329		
18,400.0	9,779.3	17,238.4	8,966.0	68.3	65.5	20.49	-8,263.3	214.1	871.0	732.4	138.61	6.284		
18,430.0	9,779.3	17,268.4	8,966.1	68.5	65.8	20.49	-8,293.3	213.8	871.0	731.9	139.07	6.263		
18,500.0	9,779.4	17,338.4	8,966.2	69.0	66.3	20.50	-8,363.3	213.2	870.9	730.8	140.13	6.215		
18,525.0	9,779.4	17,363.4	8,966.2	69.2	66.5	20.50	-8,388.3	213.0	870.9	730.4	140.51	6.198		
18,600.0	9,779.4	17,438.4	8,966.3	69.7	67.0	20.50	-8,463.3	212.3	870.9	729.2	141.65	6.148		
18,620.0	9,779.4	17,458.4	8,966.3	69.9	67.2	20.50	-8,483.3	212.1	870.9	728.9	141.95	6.135		
18,700.0	9,779.5	17,538.4	8,966.4	70.4	67.8	20.50	-8,563.3	211.4	870.8	727.7	143.16	6.083		
18,715.0	9,779.5	17,553.4	8,966.4	70.6	67.9	20.50	-8,578.3	211.3	870.8	727.4	143.39	6.073		
18,800.0	9,779.5	17,638.4	8,966.5	71.2	68.5	20.50	-8,663.3	210.5	870.8	726.1	144.68	6.019		
18,810.0	9,779.5	17,648.4	8,966.5	71.3	68.6	20.50	-8,673.3	210.4	870.8	725.9	144.83	6.012		
18,900.0	9,779.6	17,738.4	8,966.6	71.9	69.3	20.50	-8,763.3	209.6	870.7	724.5	146.20	5.956		
18,905.0	9,779.6	17,743.4	8,966.6	72.0	69.3	20.50	-8,768.3	209.6	870.7	724.4	146.28	5.952		
19,000.0	9,779.6	17,838.4	8,966.7	72.6	70.0	20.50	-8,863.3	208.7	870.7	722.9	147.72	5.894		
19,095.0	9,779.7	17,933.4	8,966.8	73.3	70.7	20.50	-8,958.3	207.9	870.6	721.4	149.17	5.836		
19,100.0	9,779.7	17,938.4	8,966.8	73.4	70.7	20.50	-8,963.3	207.9	870.6	721.4	149.24	5.833		
19,190.0	9,779.7	18,028.4	8,967.0	74.0	71.4	20.51	-9,053.3	207.1	870.6	719.9	150.61	5.780		
19,200.0	9,779.8	18,038.4	8,967.0	74.1	71.5	20.51	-9,063.3	207.0	870.5	719.8	150.77	5.774		
19,285.0	9,779.8	18,123.4	8,967.1	74.7	72.1	20.51	-9,148.3	206.2	870.5	718.4	152.06	5.725		
19,300.0	9,779.8	18,138.4	8,967.1	74.9	72.2	20.51	-9,163.3	206.1	870.5	718.2	152.29	5.716		
19,380.0	9,779.8	18,218.4	8,967.2	75.4	72.8	20.51	-9,243.3	205.4	870.4	716.9	153.51	5.670		
19,400.0	9,779.9	18,238.4	8,967.2	75.6	73.0	20.51	-9,263.3	205.2	870.4	716.6	153.81	5.659		
19,475.0	9,779.9	18,313.4	8,967.3	76.1	73.5	20.51	-9,338.3	204.5	870.4	715.4	154.96	5.617		
19,500.0	9,779.9	18,338.4	8,967.3	76.3	73.7	20.51	-9,363.3	204.3	870.4	715.0	155.34	5.603		
19,570.0	9,779.9	18,408.4	8,967.4	76.8	74.3	20.51	-9,433.3	203.7	870.3	713.9	156.41	5.565		
19,600.0	9,780.0	18,438.4	8,967.4	77.1	74.5	20.51	-9,463.3	203.4	870.3	713.5	156.86	5.548		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #707H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8417-r.5 MWD+IFR1+MS							Rule Assigned:				Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre			Distance		Minimum Separation		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
19,665.0	9,780.0	18,503.4	8,967.5	77.5	75.0	20.51	-9,528.3	202.8	870.3	712.4	157.86	5.513		
19,700.0	9,780.0	18,538.4	8,967.5	77.8	75.2	20.51	-9,563.3	202.5	870.3	711.9	158.39	5.494		
19,760.0	9,780.0	18,598.4	8,967.6	78.3	75.7	20.51	-9,623.3	202.0	870.2	710.9	159.31	5.463		
19,800.0	9,780.1	18,638.4	8,967.6	78.5	76.0	20.51	-9,663.3	201.6	870.2	710.3	159.92	5.442		
19,855.0	9,780.1	18,693.4	8,967.7	79.0	76.4	20.52	-9,718.3	201.2	870.2	709.4	160.76	5.413		
19,900.0	9,780.1	18,738.4	8,967.8	79.3	76.7	20.52	-9,763.3	200.8	870.1	708.7	161.45	5.390		
19,950.0	9,780.1	18,788.4	8,967.8	79.7	77.1	20.52	-9,813.3	200.3	870.1	707.9	162.21	5.364		
20,000.0	9,780.2	18,838.4	8,967.9	80.0	77.5	20.52	-9,863.3	199.9	870.1	707.1	162.97	5.339		
20,045.0	9,780.2	18,883.4	8,967.9	80.4	77.8	20.52	-9,908.3	199.5	870.1	706.4	163.66	5.316		
20,100.0	9,780.2	18,938.4	8,968.0	80.8	78.2	20.52	-9,963.3	199.0	870.0	705.5	164.50	5.289		
20,140.0	9,780.2	18,978.4	8,968.0	81.1	78.5	20.52	-10,003.3	198.6	870.0	704.9	165.11	5.269		
20,200.0	9,780.3	19,038.4	8,968.1	81.5	79.0	20.52	-10,063.3	198.1	870.0	703.9	166.03	5.240		
20,235.0	9,780.3	19,073.4	8,968.1	81.8	79.2	20.52	-10,098.3	197.8	870.0	703.4	166.57	5.223		
20,300.0	9,780.3	19,138.4	8,968.2	82.3	79.7	20.52	-10,163.3	197.2	869.9	702.4	167.56	5.192		
20,330.0	9,780.3	19,168.4	8,968.3	82.5	80.0	20.52	-10,193.3	196.9	869.9	701.9	168.02	5.177		
20,400.0	9,780.4	19,238.4	8,968.3	83.0	80.5	20.52	-10,263.3	196.3	869.9	700.8	169.09	5.144		
20,425.0	9,780.4	19,263.4	8,968.4	83.2	80.7	20.52	-10,288.3	196.1	869.8	700.4	169.48	5.133		
20,500.0	9,780.4	19,338.4	8,968.4	83.7	81.2	20.52	-10,363.3	195.4	869.8	699.2	170.63	5.098		
20,520.0	9,780.4	19,358.4	8,968.5	83.9	81.4	20.53	-10,383.3	195.3	869.8	698.9	170.93	5.089		
20,600.0	9,780.5	19,438.4	8,968.6	84.5	82.0	20.53	-10,463.3	194.6	869.7	697.6	172.16	5.052		
20,615.0	9,780.5	19,453.4	8,968.6	84.6	82.1	20.53	-10,478.3	194.4	869.7	697.3	172.39	5.045		
20,700.0	9,780.5	19,538.4	8,968.7	85.2	82.7	20.53	-10,563.3	193.7	869.7	696.0	173.69	5.007		
20,710.0	9,780.5	19,548.4	8,968.7	85.3	82.8	20.53	-10,573.3	193.6	869.7	695.8	173.84	5.003		
20,800.0	9,780.6	19,638.4	8,968.8	86.0	83.5	20.53	-10,663.2	192.8	869.6	694.4	175.22	4.963		
20,805.0	9,780.6	19,643.4	8,968.8	86.0	83.5	20.53	-10,668.2	192.7	869.6	694.3	175.30	4.961		
20,900.0	9,780.6	19,738.4	8,968.9	86.7	84.2	20.53	-10,763.2	191.9	869.6	692.8	176.76	4.920		
20,995.0	9,780.7	19,833.4	8,969.0	87.4	84.9	20.53	-10,858.2	191.0	869.5	691.3	178.21	4.879		
21,000.0	9,780.7	19,838.4	8,969.0	87.5	85.0	20.53	-10,863.2	191.0	869.5	691.2	178.29	4.877		
21,090.0	9,780.7	19,928.4	8,969.1	88.1	85.7	20.53	-10,953.2	190.2	869.5	689.8	179.67	4.839		
21,100.0	9,780.8	19,938.4	8,969.1	88.2	85.7	20.53	-10,963.2	190.1	869.5	689.6	179.83	4.835		
21,185.0	9,780.8	20,023.4	8,969.2	88.8	86.4	20.53	-11,048.2	189.4	869.4	688.3	181.13	4.800		
21,200.0	9,780.8	20,038.4	8,969.2	88.9	86.5	20.54	-11,063.2	189.2	869.4	688.0	181.36	4.794		
21,280.0	9,780.8	20,118.4	8,969.3	89.5	87.1	20.54	-11,143.2	188.5	869.4	686.8	182.59	4.761		
21,300.0	9,780.9	20,138.4	8,969.4	89.7	87.2	20.54	-11,163.2	188.3	869.3	686.4	182.90	4.753		
21,375.0	9,780.9	20,213.4	8,969.4	90.2	87.8	20.54	-11,238.2	187.7	869.3	685.3	184.05	4.723		
21,400.0	9,780.9	20,238.4	8,969.5	90.4	88.0	20.54	-11,263.2	187.5	869.3	684.9	184.43	4.713		
21,470.0	9,780.9	20,308.4	8,969.6	91.0	88.5	20.54	-11,333.2	186.8	869.2	683.7	185.51	4.686		
21,500.0	9,781.0	20,338.4	8,969.6	91.2	88.7	20.54	-11,363.2	186.6	869.2	683.3	185.97	4.674		
21,565.0	9,781.0	20,403.4	8,969.7	91.7	89.2	20.54	-11,428.2	186.0	869.2	682.2	186.97	4.649		
21,600.0	9,781.0	20,438.4	8,969.7	91.9	89.5	20.54	-11,463.2	185.7	869.2	681.7	187.51	4.635		
21,660.0	9,781.0	20,498.4	8,969.8	92.4	90.0	20.54	-11,523.2	185.2	869.1	680.7	188.43	4.613		
21,700.0	9,781.1	20,538.4	8,969.8	92.7	90.3	20.54	-11,563.2	184.8	869.1	680.1	189.04	4.597		
21,755.0	9,781.1	20,593.4	8,969.9	93.1	90.7	20.54	-11,618.2	184.3	869.1	679.2	189.89	4.577		
21,800.0	9,781.1	20,638.4	8,969.9	93.4	91.0	20.54	-11,663.2	183.9	869.1	678.5	190.58	4.560		
21,850.0	9,781.1	20,688.4	8,970.0	93.8	91.4	20.54	-11,713.2	183.5	869.0	677.7	191.35	4.542		
21,900.0	9,781.2	20,738.4	8,970.0	94.2	91.8	20.55	-11,763.2	183.0	869.0	676.9	192.12	4.523		
21,945.0	9,781.2	20,783.4	8,970.1	94.5	92.1	20.55	-11,808.2	182.6	869.0	676.2	192.81	4.507		
22,000.0	9,781.2	20,838.4	8,970.2	94.9	92.5	20.55	-11,863.2	182.1	868.9	675.3	193.66	4.487		
22,040.0	9,781.2	20,878.4	8,970.2	95.2	92.8	20.55	-11,903.2	181.8	868.9	674.6	194.27	4.473		
22,100.0	9,781.3	20,938.4	8,970.3	95.7	93.3	20.55	-11,963.2	181.2	868.9	673.7	195.20	4.451		
22,135.0	9,781.3	20,973.4	8,970.3	95.9	93.5	20.55	-11,998.2	180.9	868.9	673.1	195.74	4.439		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation Factor	
22,200.0	9,781.3	21,038.4	8,970.4	96.4	94.0	20.55	-12,063.2	180.4	868.8	672.1	196.74	4.416
22,230.0	9,781.3	21,068.4	8,970.4	96.6	94.3	20.55	-12,093.2	180.1	868.8	671.6	197.20	4.406
22,300.0	9,781.4	21,138.4	8,970.5	97.2	94.8	20.55	-12,163.2	179.5	868.8	670.5	198.28	4.382
22,325.0	9,781.4	21,163.4	8,970.5	97.3	95.0	20.55	-12,188.2	179.3	868.8	670.1	198.66	4.373
22,400.0	9,781.4	21,238.4	8,970.6	97.9	95.5	20.55	-12,263.2	178.6	868.7	668.9	199.82	4.348
22,420.0	9,781.4	21,258.4	8,970.6	98.1	95.7	20.55	-12,283.2	178.4	868.7	668.6	200.13	4.341
22,500.0	9,781.5	21,338.4	8,970.7	98.7	96.3	20.55	-12,363.2	177.7	868.7	667.3	201.36	4.314
22,515.0	9,781.5	21,353.4	8,970.8	98.8	96.4	20.55	-12,378.2	177.6	868.6	667.1	201.59	4.309
22,600.0	9,781.5	21,438.4	8,970.8	99.4	97.0	20.56	-12,463.2	176.8	868.6	665.7	202.90	4.281
22,610.0	9,781.5	21,448.4	8,970.9	99.5	97.1	20.56	-12,473.2	176.7	868.6	665.5	203.05	4.278
22,700.0	9,781.6	21,538.4	8,971.0	100.2	97.8	20.56	-12,563.2	175.9	868.5	664.1	204.44	4.248
22,705.0	9,781.6	21,543.4	8,971.0	100.2	97.8	20.56	-12,568.2	175.9	868.5	664.0	204.52	4.247
22,800.0	9,781.6	21,638.4	8,971.1	100.9	98.6	20.56	-12,663.2	175.0	868.5	662.5	205.98	4.216
22,895.0	9,781.7	21,733.4	8,971.2	101.6	99.3	20.56	-12,758.2	174.2	868.4	661.0	207.45	4.186
22,900.0	9,781.7	21,738.4	8,971.2	101.7	99.3	20.56	-12,763.2	174.2	868.4	660.9	207.52	4.185
22,990.0	9,781.7	21,828.4	8,971.3	102.3	100.0	20.56	-12,853.2	173.4	868.4	659.5	208.91	4.157
23,000.0	9,781.8	21,838.4	8,971.3	102.4	100.1	20.56	-12,863.2	173.3	868.4	659.3	209.07	4.154
23,085.0	9,781.8	21,923.4	8,971.4	103.0	100.7	20.56	-12,948.2	172.5	868.3	657.9	210.38	4.127
23,100.0	9,781.8	21,938.4	8,971.4	103.2	100.8	20.56	-12,963.2	172.4	868.3	657.7	210.61	4.123
23,180.0	9,781.9	22,018.4	8,971.5	103.8	101.4	20.56	-13,043.2	171.7	868.3	656.4	211.84	4.099
23,200.0	9,781.9	22,038.4	8,971.5	103.9	101.6	20.56	-13,063.2	171.5	868.3	656.1	212.15	4.093
23,275.0	9,781.9	22,113.4	8,971.6	104.5	102.1	20.57	-13,138.1	170.8	868.2	654.9	213.31	4.070
23,300.0	9,781.9	22,138.4	8,971.6	104.7	102.3	20.57	-13,163.1	170.6	868.2	654.5	213.69	4.063
23,370.0	9,782.0	22,208.4	8,971.7	105.2	102.9	20.57	-13,233.1	170.0	868.2	653.4	214.77	4.042
23,400.0	9,782.0	22,238.4	8,971.8	105.4	103.1	20.57	-13,263.1	169.7	868.1	652.9	215.24	4.033
23,465.0	9,782.0	22,303.4	8,971.8	105.9	103.6	20.57	-13,328.1	169.1	868.1	651.9	216.24	4.015
23,500.0	9,782.0	22,338.4	8,971.9	106.2	103.8	20.57	-13,363.1	168.8	868.1	651.3	216.78	4.004
23,560.0	9,782.1	22,398.4	8,971.9	106.6	104.3	20.57	-13,423.1	168.3	868.1	650.3	217.71	3.987
23,600.0	9,782.1	22,438.4	8,972.0	106.9	104.6	20.57	-13,463.1	167.9	868.0	649.7	218.32	3.976
23,655.0	9,782.1	22,493.4	8,972.1	107.3	105.0	20.57	-13,518.1	167.5	868.0	648.8	219.17	3.960
23,700.0	9,782.1	22,538.4	8,972.1	107.7	105.4	20.57	-13,563.1	167.1	868.0	648.1	219.87	3.948
23,750.0	9,782.2	22,588.4	8,972.2	108.0	105.7	20.57	-13,613.1	166.6	867.9	647.3	220.64	3.934
23,800.0	9,782.2	22,638.4	8,972.2	108.4	106.1	20.57	-13,663.1	166.2	867.9	646.5	221.41	3.920
23,845.0	9,782.2	22,683.4	8,972.3	108.7	106.5	20.57	-13,708.1	165.8	867.9	645.8	222.11	3.907
23,900.0	9,782.2	22,738.4	8,972.3	109.2	106.9	20.58	-13,763.1	165.3	867.9	644.9	222.96	3.892
23,940.0	9,782.3	22,778.4	8,972.4	109.5	107.2	20.58	-13,803.1	164.9	867.8	644.3	223.58	3.882
24,000.0	9,782.3	22,838.4	8,972.4	109.9	107.6	20.58	-13,863.1	164.4	867.8	643.3	224.50	3.865
24,035.0	9,782.3	22,873.4	8,972.5	110.2	107.9	20.58	-13,898.1	164.1	867.8	642.7	225.04	3.856
24,100.0	9,782.3	22,938.4	8,972.6	110.7	108.4	20.58	-13,963.1	163.5	867.7	641.7	226.05	3.839
24,130.0	9,782.4	22,968.4	8,972.6	110.9	108.6	20.58	-13,993.1	163.2	867.7	641.2	226.51	3.831
24,200.0	9,782.4	23,038.4	8,972.7	111.4	109.1	20.58	-14,063.1	162.6	867.7	640.1	227.59	3.812
24,225.0	9,782.4	23,063.4	8,972.7	111.6	109.3	20.58	-14,088.1	162.4	867.7	639.7	227.98	3.806
24,300.0	9,782.4	23,138.4	8,972.8	112.2	109.9	20.58	-14,163.1	161.7	867.6	638.5	229.14	3.786
24,320.0	9,782.5	23,158.4	8,972.8	112.3	110.0	20.58	-14,183.1	161.6	867.6	638.2	229.45	3.781
24,400.0	9,782.5	23,238.4	8,972.9	112.9	110.7	20.58	-14,263.1	160.8	867.6	636.9	230.69	3.761
24,415.0	9,782.5	23,253.4	8,972.9	113.0	110.8	20.58	-14,278.1	160.7	867.6	636.6	230.92	3.757
24,500.0	9,782.5	23,338.4	8,973.0	113.7	111.4	20.58	-14,363.1	160.0	867.5	635.3	232.23	3.736
24,510.0	9,782.6	23,348.4	8,973.0	113.7	111.5	20.58	-14,373.1	159.9	867.5	635.1	232.39	3.733
24,600.0	9,782.6	23,438.4	8,973.1	114.4	112.2	20.59	-14,463.1	159.1	867.5	633.7	233.78	3.711
24,605.0	9,782.6	23,443.4	8,973.1	114.5	112.2	20.59	-14,468.1	159.0	867.5	633.6	233.86	3.709
24,700.0	9,782.7	23,538.4	8,973.2	115.2	112.9	20.59	-14,563.1	158.2	867.4	632.1	235.33	3.686

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	
24,795.0	9,782.7	23,633.4	8,973.4	115.9	113.6	20.59	-14,658.1	157.3	867.3	630.5	236.79	3.663	
24,800.0	9,782.7	23,638.4	8,973.4	115.9	113.7	20.59	-14,663.1	157.3	867.3	630.5	236.87	3.662	
24,890.0	9,782.8	23,728.4	8,973.5	116.6	114.4	20.59	-14,753.1	156.5	867.3	629.0	238.26	3.640	
24,900.0	9,782.8	23,738.4	8,973.5	116.7	114.4	20.59	-14,763.1	156.4	867.3	628.9	238.42	3.638	
24,985.0	9,782.8	23,823.4	8,973.6	117.3	115.1	20.59	-14,848.1	155.7	867.2	627.5	239.73	3.617	
25,000.0	9,782.8	23,838.4	8,973.6	117.4	115.2	20.59	-14,863.1	155.5	867.2	627.3	239.97	3.614	
25,080.0	9,782.9	23,918.4	8,973.7	118.0	115.8	20.59	-14,943.1	154.8	867.2	626.0	241.20	3.595	
25,100.0	9,782.9	23,938.4	8,973.7	118.2	116.0	20.59	-14,963.1	154.6	867.2	625.7	241.51	3.591	
25,175.0	9,782.9	24,013.4	8,973.8	118.8	116.5	20.59	-15,038.1	154.0	867.1	624.5	242.67	3.573	
25,200.0	9,782.9	24,038.4	8,973.8	118.9	116.7	20.59	-15,063.1	153.8	867.1	624.1	243.06	3.567	
25,229.2	9,782.9	24,067.5	8,973.9	119.2	116.9	20.59	-15,092.2	153.5	867.1	623.6	243.51	3.561	
25,270.0	9,783.0	24,108.4	8,973.9	119.5	117.2	20.60	-15,133.1	153.1	867.1	622.9	244.14	3.551	
25,300.0	9,783.0	24,138.4	8,973.9	119.7	117.5	20.60	-15,163.1	152.9	867.1	622.4	244.61	3.545	
25,359.2	9,783.0	24,197.5	8,974.0	120.1	117.9	20.60	-15,222.2	152.3	867.0	621.5	245.52	3.531 SF	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	
0.0	0.0	3.3	3.3	3.0	3.0	179.81	-149.9	0.5	149.9					
95.0	95.0	98.3	98.3	3.0	3.0	179.81	-149.9	0.5	149.9	143.9	6.04	24.827		
100.0	100.0	103.3	103.3	3.0	3.0	179.81	-149.9	0.5	149.9	143.9	6.04	24.803		
190.0	190.0	193.3	193.3	3.1	3.1	179.81	-149.9	0.5	149.9	143.6	6.26	23.930		
200.0	200.0	203.3	203.3	3.1	3.2	179.81	-149.9	0.5	149.9	143.6	6.30	23.805		
285.0	285.0	288.3	288.3	3.3	3.3	179.81	-149.9	0.5	149.9	143.4	6.51	23.040		
300.0	300.0	303.3	303.3	3.3	3.3	179.81	-149.9	0.5	149.9	143.4	6.55	22.896		
380.0	380.0	383.3	383.3	3.4	3.4	179.81	-149.9	0.5	149.9	143.2	6.74	22.230		
400.0	400.0	403.3	403.3	3.4	3.4	179.81	-149.9	0.5	149.9	143.1	6.80	22.059		
475.0	475.0	478.3	478.3	3.5	3.5	179.81	-149.9	0.5	149.9	142.9	6.98	21.482		
500.0	500.0	503.3	503.3	3.5	3.5	179.81	-149.9	0.5	149.9	142.9	7.04	21.287		
570.0	570.0	573.3	573.3	3.6	3.6	179.81	-149.9	0.5	149.9	142.7	7.21	20.786		
600.0	600.0	603.3	603.3	3.6	3.6	179.81	-149.9	0.5	149.9	142.6	7.29	20.571		
665.0	665.0	668.3	668.3	3.7	3.7	179.81	-149.9	0.5	149.9	142.5	7.44	20.138		
700.0	700.0	703.3	703.3	3.8	3.8	179.81	-149.9	0.5	149.9	142.4	7.53	19.905		
760.0	760.0	763.3	763.3	3.8	3.8	179.81	-149.9	0.5	149.9	142.2	7.67	19.532		
800.0	800.0	803.3	803.3	3.9	3.9	179.81	-149.9	0.5	149.9	142.1	7.77	19.284		
855.0	855.0	858.3	858.3	4.0	4.0	179.81	-149.9	0.5	149.9	142.0	7.90	18.963		
900.0	900.0	903.3	903.3	4.0	4.0	179.81	-149.9	0.5	149.9	141.9	8.01	18.704		
950.0	950.0	953.3	953.3	4.1	4.1	179.81	-149.9	0.5	149.9	141.8	8.13	18.429		
1,000.0	1,000.0	1,003.3	1,003.3	4.1	4.1	179.81	-149.9	0.5	149.9	141.6	8.25	18.159		
1,045.0	1,045.0	1,048.3	1,048.3	4.2	4.2	179.81	-149.9	0.5	149.9	141.5	8.36	17.927		
1,100.0	1,100.0	1,103.3	1,103.3	4.2	4.2	179.81	-149.9	0.5	149.9	141.4	8.49	17.647		
1,140.0	1,140.0	1,143.3	1,143.3	4.3	4.3	179.81	-149.9	0.5	149.9	141.3	8.59	17.452		
1,200.0	1,200.0	1,203.3	1,203.3	4.4	4.4	179.81	-149.9	0.5	149.9	141.2	8.73	17.165		
1,235.0	1,235.0	1,238.3	1,238.3	4.4	4.4	179.81	-149.9	0.5	149.9	141.1	8.82	17.004		
1,300.0	1,300.0	1,303.3	1,303.3	4.5	4.5	179.81	-149.9	0.5	149.9	140.9	8.97	16.710		
1,330.0	1,330.0	1,333.3	1,333.3	4.5	4.5	179.81	-149.9	0.5	149.9	140.9	9.04	16.579		
1,400.0	1,400.0	1,403.3	1,403.3	4.6	4.6	179.81	-149.9	0.5	149.9	140.7	9.21	16.279		
1,425.0	1,425.0	1,428.3	1,428.3	4.6	4.6	179.81	-149.9	0.5	149.9	140.6	9.27	16.176		
1,500.0	1,500.0	1,503.5	1,503.5	4.7	4.7	179.81	-149.9	0.5	149.9	140.5	9.45	15.868		
1,520.0	1,520.0	1,524.4	1,524.4	4.7	4.8	130.67	-149.8	0.5	149.9	140.3	9.51	15.755		
1,600.0	1,600.0	1,608.3	1,608.2	4.9	4.9	131.54	-148.1	-0.5	149.3	139.5	9.78	15.274		
1,615.0	1,615.0	1,624.0	1,623.9	4.9	5.0	131.83	-147.5	-0.8	149.2	139.3	9.84	15.156		
1,700.0	1,699.8	1,712.7	1,712.5	5.1	5.2	134.22	-142.9	-3.2	148.0	137.8	10.22	14.486		
1,710.0	1,709.8	1,723.2	1,722.9	5.1	5.2	134.59	-142.2	-3.6	147.9	137.6	10.26	14.408		
1,800.0	1,799.5	1,816.6	1,815.9	5.4	5.5	138.71	-134.4	-7.7	146.6	135.9	10.67	13.741		
1,805.0	1,804.4	1,821.8	1,821.1	5.4	5.5	138.99	-133.9	-7.9	146.6	135.9	10.69	13.706		
1,879.0	1,877.9	1,898.0	1,896.7	5.6	5.7	143.52	-125.5	-12.4	146.1	135.1	11.03	13.242 CC		
1,900.0	1,898.7	1,919.5	1,918.0	5.7	5.8	144.97	-122.8	-13.8	146.1	135.0	11.10	13.165 ES		
1,995.0	1,992.5	2,013.0	2,010.5	6.0	5.9	151.71	-110.6	-20.3	148.8	137.3	11.48	12.960		
2,000.0	1,997.5	2,017.9	2,015.3	6.0	6.0	152.07	-109.9	-20.6	149.1	137.6	11.51	12.958		
2,090.0	2,085.8	2,105.9	2,102.3	6.3	6.2	158.49	-98.4	-26.7	156.4	144.5	11.92	13.127		
2,100.0	2,095.6	2,115.6	2,112.0	6.3	6.2	159.18	-97.1	-27.3	157.5	145.6	11.96	13.168		
2,185.0	2,178.5	2,198.2	2,193.6	6.6	6.4	164.81	-86.4	-33.0	169.1	156.8	12.36	13.682		
2,200.2	2,193.2	2,212.9	2,208.2	6.7	6.5	165.76	-84.4	-34.1	171.6	159.2	12.43	13.804		
2,280.0	2,270.7	2,290.1	2,284.6	6.9	6.7	170.38	-74.3	-39.4	185.7	172.9	12.76	14.551		
2,300.0	2,290.1	2,309.5	2,303.7	7.0	6.8	171.44	-71.8	-40.7	189.4	176.5	12.84	14.746		
2,375.0	2,362.9	2,382.1	2,375.5	7.2	7.0	175.05	-62.3	-45.7	203.7	190.6	13.16	15.482		
2,400.0	2,387.1	2,406.3	2,399.4	7.3	7.1	176.14	-59.1	-47.4	208.7	195.4	13.26	15.732		
2,470.0	2,455.0	2,474.0	2,466.4	7.5	7.3	178.95	-50.3	-52.1	222.9	209.3	13.57	16.425		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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
2,500.0	2,484.1	2,503.0	2,495.1	7.7	7.4	-179.96	-46.5	-54.1	229.1	215.4	13.70	16.723	
2,565.0	2,547.2	2,565.9	2,557.3	7.9	7.6	-177.77	-38.3	-58.4	242.9	228.9	14.00	17.357	
2,600.0	2,581.2	2,599.8	2,590.8	8.0	7.7	-176.69	-33.8	-60.8	250.5	236.3	14.15	17.695	
2,660.0	2,639.4	2,657.8	2,648.2	8.2	7.9	-174.99	-26.3	-64.8	263.6	249.2	14.43	18.262	
2,700.0	2,678.2	2,696.6	2,686.5	8.4	8.0	-173.94	-21.2	-67.4	272.5	257.9	14.62	18.634	
2,755.0	2,731.6	2,749.8	2,739.2	8.6	8.2	-172.60	-14.2	-71.1	284.8	269.9	14.89	19.133	
2,800.0	2,775.2	2,793.3	2,782.2	8.8	8.4	-171.59	-8.5	-74.1	295.0	279.9	15.10	19.533	
2,850.0	2,823.7	2,841.7	2,830.1	9.0	8.6	-170.55	-2.2	-77.5	306.4	291.1	15.35	19.965	
2,900.0	2,872.3	2,890.1	2,877.9	9.2	8.7	-169.58	4.1	-80.8	317.9	302.3	15.59	20.387	
2,945.0	2,915.9	2,933.6	2,921.0	9.3	8.9	-168.77	9.8	-83.8	328.3	312.5	15.82	20.756	
3,000.0	2,969.3	2,986.9	2,973.6	9.6	9.1	-167.84	16.8	-87.5	341.2	325.1	16.10	21.196	
3,040.0	3,008.1	3,025.6	3,011.9	9.7	9.2	-167.21	21.8	-90.1	350.5	334.2	16.30	21.506	
3,100.0	3,066.3	3,083.6	3,069.3	10.0	9.4	-166.32	29.4	-94.2	364.7	348.1	16.61	21.959	
3,135.0	3,100.3	3,117.5	3,102.8	10.1	9.6	-165.83	33.8	-96.5	372.9	356.2	16.79	22.215	
3,200.0	3,163.3	3,180.4	3,165.0	10.4	9.8	-164.98	42.1	-100.8	388.4	371.3	17.13	22.678	
3,230.0	3,192.4	3,209.4	3,193.7	10.5	9.9	-164.61	45.9	-102.8	395.5	378.3	17.28	22.885	
3,300.0	3,260.4	3,277.2	3,260.7	10.8	10.2	-163.80	54.7	-107.5	412.3	394.6	17.65	23.356	
3,325.0	3,284.6	3,301.3	3,284.7	10.9	10.3	-163.52	57.9	-109.2	418.3	400.5	17.79	23.518	
3,400.0	3,357.4	3,373.9	3,356.4	11.2	10.6	-162.74	67.4	-114.2	436.3	418.2	18.19	23.993	
3,420.0	3,376.8	3,393.3	3,375.6	11.3	10.6	-162.55	69.9	-115.5	441.2	422.9	18.29	24.116	
3,500.0	3,454.4	3,470.7	3,452.1	11.7	10.9	-161.80	80.0	-120.9	460.5	441.8	18.73	24.593	
3,515.0	3,469.0	3,485.2	3,466.5	11.7	11.0	-161.66	81.9	-121.9	464.2	445.4	18.81	24.679	
3,600.0	3,551.4	3,567.5	3,547.8	12.1	11.3	-160.95	92.7	-127.5	484.8	465.5	19.27	25.157	
3,610.0	3,561.1	3,577.1	3,557.4	12.2	11.4	-160.87	93.9	-128.2	487.2	467.9	19.33	25.212	
3,700.0	3,648.5	3,664.2	3,643.5	12.6	11.7	-160.18	105.3	-134.2	509.2	489.4	19.82	25.689	
3,705.0	3,653.3	3,669.1	3,648.3	12.6	11.7	-160.14	106.0	-134.6	510.4	490.6	19.85	25.715	
3,800.0	3,745.5	3,761.0	3,739.3	13.0	12.1	-159.48	118.0	-140.9	533.6	513.3	20.38	26.191	
3,895.0	3,837.7	3,852.9	3,830.2	13.4	12.5	-158.87	130.0	-147.2	556.9	536.0	20.91	26.640	
3,900.0	3,842.5	3,857.8	3,835.0	13.5	12.5	-158.84	130.6	-147.6	558.2	537.2	20.93	26.663	
3,990.0	3,929.9	3,944.8	3,921.1	13.9	12.8	-158.31	142.0	-153.6	580.3	558.8	21.44	27.066	
4,000.0	3,939.6	3,954.5	3,930.7	13.9	12.9	-158.25	143.3	-154.3	582.7	561.2	21.50	27.110	
4,085.0	4,022.0	4,036.8	4,012.0	14.3	13.2	-157.79	154.0	-159.9	603.7	581.7	21.98	27.469	
4,100.0	4,036.6	4,051.3	4,026.4	14.4	13.3	-157.72	155.9	-160.9	607.4	585.3	22.06	27.531	
4,180.0	4,114.2	4,128.7	4,102.9	14.7	13.6	-157.32	166.1	-166.3	627.1	604.6	22.50	27.875	
4,200.0	4,133.6	4,148.4	4,122.4	14.8	13.7	-157.22	168.6	-167.6	632.1	609.4	22.61	27.958	
4,275.0	4,206.4	4,222.4	4,195.7	15.2	13.9	-156.93	177.6	-172.4	650.5	627.4	23.03	28.248	
4,300.0	4,230.6	4,247.1	4,220.2	15.3	14.0	-156.86	180.4	-173.9	656.6	633.4	23.17	28.335	
4,370.0	4,298.6	4,316.3	4,288.9	15.6	14.3	-156.71	187.9	-177.8	673.6	650.0	23.58	28.566	
4,400.0	4,327.7	4,346.0	4,318.4	15.7	14.4	-156.67	190.8	-179.4	680.8	657.1	23.76	28.661	
4,465.0	4,390.7	4,410.4	4,382.4	16.0	14.7	-156.63	196.8	-182.5	696.5	672.3	24.13	28.858	
4,500.0	4,424.7	4,445.1	4,417.0	16.2	14.8	-156.64	199.7	-184.0	704.8	680.5	24.34	28.960	
4,560.0	4,482.9	4,504.6	4,476.3	16.5	15.0	-156.68	204.3	-186.5	719.1	694.4	24.69	29.126	
4,600.0	4,521.7	4,544.3	4,515.8	16.7	15.2	-156.74	207.1	-187.9	728.5	703.6	24.92	29.234	
4,655.0	4,575.1	4,598.9	4,570.3	16.9	15.4	-156.85	210.5	-189.8	741.5	716.2	25.24	29.375	
4,700.0	4,618.8	4,643.6	4,614.9	17.1	15.5	-156.97	213.0	-191.0	752.0	726.5	25.50	29.487	
4,750.0	4,667.3	4,693.2	4,664.5	17.4	15.7	-157.13	215.3	-192.3	763.6	737.8	25.78	29.618	
4,755.7	4,672.8	4,698.9	4,670.1	17.4	15.7	-157.15	215.6	-192.4	764.9	739.1	25.81	29.633	
4,800.0	4,715.9	4,743.0	4,714.2	17.6	15.9	-157.39	217.3	-193.4	774.8	748.8	26.06	29.738	
4,845.0	4,759.8	4,787.9	4,759.0	17.8	16.0	-157.62	218.8	-194.1	784.2	757.9	26.32	29.796	
4,900.0	4,813.6	4,843.0	4,814.1	18.1	16.2	-157.90	220.2	-194.9	794.8	768.2	26.64	29.834	
4,940.0	4,852.9	4,883.1	4,854.3	18.3	16.3	-158.10	220.9	-195.2	801.8	775.0	26.87	29.844	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	4,912.1	4,943.5	4,914.7	18.5	16.4	-158.39	221.5	-195.6	811.4	784.2	27.19	29.836	
5,035.0	4,946.7	4,978.8	4,950.0	18.7	16.4	-158.56	221.6	-195.6	816.3	789.0	27.37	29.822	
5,100.0	5,011.1	5,043.2	5,014.4	19.0	16.5	-158.85	221.6	-195.6	824.5	796.8	27.70	29.766	
5,130.0	5,040.9	5,073.0	5,044.2	19.1	16.5	-158.96	221.6	-195.6	827.9	800.0	27.85	29.725	
5,200.0	5,110.5	5,142.7	5,113.8	19.4	16.5	-159.18	221.6	-195.6	834.5	806.3	28.20	29.593	
5,225.0	5,135.4	5,167.6	5,138.7	19.5	16.5	-159.25	221.6	-195.6	836.5	808.2	28.31	29.542	
5,300.0	5,210.2	5,242.4	5,213.5	19.8	16.6	-159.40	221.6	-195.6	841.2	812.6	28.66	29.349	
5,320.0	5,230.2	5,262.4	5,233.5	19.9	16.6	-159.43	221.6	-195.6	842.2	813.4	28.74	29.298	
5,400.0	5,310.2	5,342.3	5,313.5	20.1	16.6	-159.51	221.6	-195.6	844.7	815.6	29.07	29.054	
5,415.0	5,325.1	5,357.3	5,328.4	20.1	16.6	-159.52	221.6	-195.6	844.9	815.8	29.11	29.028	
5,455.9	5,366.0	5,398.2	5,369.3	20.2	16.7	-110.36	221.6	-195.6	845.2	816.0	29.20	28.946	
5,500.0	5,410.1	5,442.3	5,413.4	20.2	16.7	-110.36	221.6	-195.6	845.2	815.9	29.25	28.896	
5,510.0	5,420.1	5,452.3	5,423.4	20.2	16.7	-110.36	221.6	-195.6	845.2	815.9	29.26	28.882	
5,600.0	5,510.1	5,542.3	5,513.4	20.3	16.8	-110.36	221.6	-195.6	845.2	815.8	29.39	28.760	
5,605.0	5,515.1	5,547.3	5,518.4	20.3	16.8	-110.36	221.6	-195.6	845.2	815.8	29.39	28.753	
5,700.0	5,610.1	5,642.3	5,613.4	20.3	16.8	-110.36	221.6	-195.6	845.2	815.7	29.53	28.624	
5,795.0	5,705.1	5,737.3	5,708.4	20.3	16.9	-110.36	221.6	-195.6	845.2	815.5	29.66	28.497	
5,800.0	5,710.1	5,742.3	5,713.4	20.3	16.9	-110.36	221.6	-195.6	845.2	815.5	29.67	28.490	
5,890.0	5,800.1	5,832.3	5,803.4	20.4	16.9	-110.36	221.6	-195.6	845.2	815.4	29.79	28.371	
5,900.0	5,810.1	5,842.3	5,813.4	20.4	16.9	-110.36	221.6	-195.6	845.2	815.4	29.80	28.358	
5,985.0	5,895.1	5,927.3	5,898.4	20.4	17.0	-110.36	221.6	-195.6	845.2	815.3	29.92	28.246	
6,000.0	5,910.1	5,942.3	5,913.4	20.4	17.0	-110.36	221.6	-195.6	845.2	815.2	29.94	28.226	
6,080.0	5,990.1	6,022.3	5,993.4	20.5	17.0	-110.36	221.6	-195.6	845.2	815.1	30.05	28.122	
6,100.0	6,010.1	6,042.3	6,013.4	20.5	17.0	-110.36	221.6	-195.6	845.2	815.1	30.08	28.096	
6,175.0	6,085.1	6,117.3	6,088.4	20.5	17.1	-110.36	221.6	-195.6	845.2	815.0	30.19	27.999	
6,200.0	6,110.1	6,142.3	6,113.4	20.5	17.1	-110.36	221.6	-195.6	845.2	815.0	30.22	27.966	
6,270.0	6,180.1	6,212.3	6,183.4	20.6	17.1	-110.36	221.6	-195.6	845.2	814.9	30.32	27.877	
6,300.0	6,210.1	6,242.3	6,213.4	20.6	17.2	-110.36	221.6	-195.6	845.2	814.8	30.36	27.838	
6,365.0	6,275.1	6,307.3	6,278.4	20.6	17.2	-110.36	221.6	-195.6	845.2	814.7	30.45	27.756	
6,400.0	6,310.1	6,342.3	6,313.4	20.6	17.2	-110.36	221.6	-195.6	845.2	814.7	30.50	27.711	
6,460.0	6,370.1	6,402.3	6,373.4	20.6	17.3	-110.36	221.6	-195.6	845.2	814.6	30.58	27.636	
6,500.0	6,410.1	6,442.3	6,413.4	20.7	17.3	-110.36	221.6	-195.6	845.2	814.5	30.64	27.586	
6,555.0	6,465.1	6,497.3	6,468.4	20.7	17.3	-110.36	221.6	-195.6	845.2	814.5	30.72	27.517	
6,600.0	6,510.1	6,542.3	6,513.4	20.7	17.3	-110.36	221.6	-195.6	845.2	814.4	30.78	27.461	
6,650.0	6,560.1	6,592.3	6,563.4	20.7	17.4	-110.36	221.6	-195.6	845.2	814.3	30.85	27.399	
6,700.0	6,610.1	6,642.3	6,613.4	20.8	17.4	-110.36	221.6	-195.6	845.2	814.3	30.92	27.337	
6,745.0	6,655.1	6,687.3	6,658.4	20.8	17.4	-110.36	221.6	-195.6	845.2	814.2	30.98	27.282	
6,800.0	6,710.1	6,742.3	6,713.4	20.8	17.5	-110.36	221.6	-195.6	845.2	814.1	31.06	27.214	
6,840.0	6,750.1	6,782.3	6,753.4	20.8	17.5	-110.36	221.6	-195.6	845.2	814.1	31.11	27.166	
6,900.0	6,810.1	6,842.3	6,813.4	20.9	17.5	-110.36	221.6	-195.6	845.2	814.0	31.20	27.093	
6,935.0	6,845.1	6,877.3	6,848.4	20.9	17.5	-110.36	221.6	-195.6	845.2	813.9	31.24	27.050	
7,000.0	6,910.1	6,942.3	6,913.4	20.9	17.6	-110.36	221.6	-195.6	845.2	813.8	31.34	26.972	
7,030.0	6,940.1	6,972.3	6,943.4	20.9	17.6	-110.36	221.6	-195.6	845.2	813.8	31.38	26.936	
7,100.0	7,010.1	7,042.3	7,013.4	20.9	17.6	-110.36	221.6	-195.6	845.2	813.7	31.47	26.853	
7,125.0	7,035.1	7,067.3	7,038.4	21.0	17.7	-110.36	221.6	-195.6	845.2	813.7	31.51	26.823	
7,200.0	7,110.1	7,142.3	7,113.4	21.0	17.7	-110.36	221.6	-195.6	845.2	813.6	31.61	26.734	
7,220.0	7,130.1	7,162.3	7,133.4	21.0	17.7	-110.36	221.6	-195.6	845.2	813.5	31.64	26.710	
7,300.0	7,210.1	7,242.3	7,213.4	21.0	17.8	-110.36	221.6	-195.6	845.2	813.4	31.75	26.616	
7,315.0	7,225.1	7,257.3	7,228.4	21.1	17.8	-110.36	221.6	-195.6	845.2	813.4	31.78	26.599	
7,400.0	7,310.1	7,342.3	7,313.4	21.1	17.8	-110.36	221.6	-195.6	845.2	813.3	31.89	26.500	
7,410.0	7,320.1	7,352.3	7,323.4	21.1	17.8	-110.36	221.6	-195.6	845.2	813.3	31.91	26.488	

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 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #708H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8403-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
7,500.0	7,410.1	7,442.3	7,413.4	21.1	17.9	-110.36	221.6	-195.6	845.2	813.1	32.03	26.384	
7,505.0	7,415.1	7,447.3	7,418.4	21.1	17.9	-110.36	221.6	-195.6	845.2	813.1	32.04	26.378	
7,600.0	7,510.1	7,542.3	7,513.4	21.2	17.9	-110.36	221.6	-195.6	845.2	813.0	32.17	26.269	
7,695.0	7,605.1	7,637.3	7,608.4	21.2	18.0	-110.36	221.6	-195.6	845.2	812.9	32.31	26.161	
7,700.0	7,610.1	7,642.3	7,613.4	21.2	18.0	-110.36	221.6	-195.6	845.2	812.9	32.31	26.156	
7,790.0	7,700.1	7,732.3	7,703.4	21.3	18.1	-110.36	221.6	-195.6	845.2	812.7	32.44	26.054	
7,800.0	7,710.1	7,742.3	7,713.4	21.3	18.1	-110.36	221.6	-195.6	845.2	812.7	32.45	26.043	
7,885.0	7,795.1	7,827.3	7,798.4	21.3	18.1	-110.36	221.6	-195.6	845.2	812.6	32.57	25.947	
7,900.0	7,810.1	7,842.3	7,813.4	21.3	18.1	-110.36	221.6	-195.6	845.2	812.6	32.59	25.931	
7,980.0	7,890.1	7,922.3	7,893.4	21.4	18.2	-110.36	221.6	-195.6	845.2	812.5	32.71	25.842	
8,000.0	7,910.1	7,942.3	7,913.4	21.4	18.2	-110.36	221.6	-195.6	845.2	812.4	32.73	25.820	
8,075.0	7,985.1	8,017.3	7,988.4	21.4	18.2	-110.36	221.6	-195.6	845.2	812.3	32.84	25.737	
8,100.0	8,010.1	8,042.3	8,013.4	21.4	18.3	-110.36	221.6	-195.6	845.2	812.3	32.87	25.709	
8,170.0	8,080.1	8,112.3	8,083.4	21.5	18.3	-110.36	221.6	-195.6	845.2	812.2	32.97	25.633	
8,200.0	8,110.1	8,142.3	8,113.4	21.5	18.3	-110.36	221.6	-195.6	845.2	812.2	33.02	25.600	
8,265.0	8,175.1	8,207.3	8,178.4	21.5	18.4	-110.36	221.6	-195.6	845.2	812.1	33.11	25.529	
8,300.0	8,210.1	8,242.3	8,213.4	21.5	18.4	-110.36	221.6	-195.6	845.2	812.0	33.16	25.491	
8,360.0	8,270.1	8,302.3	8,273.4	21.6	18.4	-110.36	221.6	-195.6	845.2	811.9	33.24	25.427	
8,400.0	8,310.1	8,342.3	8,313.4	21.6	18.4	-110.36	221.6	-195.6	845.2	811.9	33.29	25.388	
8,455.0	8,365.1	8,397.3	8,368.4	21.6	18.5	-110.36	221.6	-195.6	845.2	811.8	33.36	25.335	
8,500.0	8,410.1	8,428.7	8,399.8	21.6	18.5	-110.39	221.0	-195.6	845.5	812.1	33.36	25.348	
8,550.0	8,460.1	8,461.3	8,432.4	21.7	18.5	-110.54	218.6	-195.6	846.8	813.5	33.34	25.398	
8,600.0	8,510.1	8,500.0	8,470.7	21.7	18.6	-110.87	213.4	-195.7	849.2	815.9	33.36	25.458	
8,645.0	8,555.1	8,522.1	8,492.3	21.7	18.6	-111.13	209.3	-195.7	852.2	818.9	33.32	25.577	
8,700.0	8,610.1	8,550.0	8,519.5	21.7	18.6	-111.54	202.8	-195.8	857.2	823.9	33.28	25.760	
8,740.0	8,650.1	8,580.2	8,548.5	21.8	18.7	-112.06	194.4	-195.8	861.7	828.4	33.29	25.880	
8,800.0	8,710.1	8,615.2	8,581.5	21.8	18.7	-112.78	182.7	-195.9	869.9	836.6	33.28	26.141	
8,835.0	8,745.1	8,634.8	8,599.7	21.8	18.7	-113.23	175.3	-196.0	875.5	842.2	33.26	26.320	
8,900.0	8,810.1	8,669.8	8,631.4	21.8	18.8	-114.12	160.5	-196.1	887.7	854.4	33.24	26.706	
8,930.0	8,840.1	8,685.3	8,645.1	21.9	18.8	-114.55	153.4	-196.2	894.1	860.8	33.23	26.908	
9,000.0	8,910.1	8,719.7	8,675.0	21.9	18.8	-115.56	136.2	-196.4	911.0	877.8	33.20	27.442	
9,025.0	8,935.1	8,731.5	8,684.9	21.9	18.8	-115.93	130.0	-196.4	917.7	884.5	33.19	27.653	
9,100.0	9,010.1	8,764.8	8,712.3	21.9	18.9	-117.02	111.1	-196.6	940.1	906.9	33.16	28.352	
9,120.0	9,030.1	8,773.3	8,719.1	22.0	18.9	-117.30	106.0	-196.6	946.6	913.5	33.15	28.555	
9,200.0	9,110.1	8,800.0	8,740.1	22.0	18.9	-118.24	89.4	-196.8	975.1	942.0	33.10	29.459	
9,215.0	9,125.1	8,800.0	8,740.1	22.0	18.9	-118.24	89.4	-196.8	980.9	947.9	33.07	29.665	
9,291.9	9,202.0	8,850.0	8,777.1	22.0	19.0	-120.08	55.9	-197.1	1,012.4	979.2	33.17	30.523	
9,300.0	9,210.1	8,850.0	8,777.1	22.0	19.0	59.09	55.9	-197.1	1,015.8	982.9	32.97	30.810	
9,310.0	9,220.1	8,850.0	8,777.1	22.0	19.0	58.69	55.9	-197.1	1,020.1	987.1	32.95	30.959	
9,350.0	9,260.0	8,850.0	8,777.1	22.1	19.0	57.11	55.9	-197.1	1,037.0	1,004.1	32.86	31.554	
9,400.0	9,309.5	8,876.7	8,795.7	22.1	19.0	54.45	36.6	-197.2	1,057.2	1,024.3	32.89	32.140	
9,405.0	9,314.4	8,878.5	8,796.9	22.1	19.0	54.22	35.3	-197.3	1,059.1	1,026.2	32.89	32.202	
9,450.0	9,358.1	8,900.0	8,811.1	22.1	19.0	52.16	19.2	-197.4	1,076.5	1,043.5	32.91	32.714	
9,500.0	9,405.6	8,900.0	8,811.1	22.2	19.0	50.63	19.2	-197.4	1,094.7	1,061.9	32.82	33.358	
9,550.0	9,451.5	8,932.1	8,831.1	22.2	19.1	48.62	-5.9	-197.6	1,111.2	1,078.4	32.88	33.794	
9,595.0	9,491.2	8,950.0	8,841.7	22.2	19.1	47.23	-20.3	-197.7	1,125.1	1,092.2	32.90	34.197	
9,600.0	9,495.5	8,950.0	8,841.7	22.2	19.1	47.12	-20.3	-197.7	1,126.5	1,093.6	32.89	34.248	
9,650.0	9,537.3	8,970.1	8,853.0	22.3	19.1	45.79	-37.0	-197.9	1,140.2	1,107.3	32.92	34.632	
9,690.0	9,568.9	9,000.0	8,868.8	22.3	19.2	44.71	-62.3	-198.1	1,150.2	1,117.2	33.01	34.845	
9,700.0	9,576.5	9,000.0	8,868.8	22.3	19.2	44.56	-62.3	-198.1	1,152.4	1,119.4	33.00	34.919	
9,750.0	9,612.9	9,000.0	8,868.8	22.4	19.2	43.83	-62.3	-198.1	1,162.6	1,129.6	32.98	35.255	

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 #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	
9,785.0	9,636.5	9,022.4	8,879.7	22.4	19.2	43.22	-81.9	-198.3	1,168.6	1,135.5	33.05	35.358		
9,800.0	9,646.1	9,028.2	8,882.4	22.4	19.2	43.02	-87.1	-198.3	1,170.9	1,137.9	33.07	35.408		
9,850.0	9,676.0	9,050.0	8,892.1	22.4	19.2	42.44	-106.6	-198.5	1,177.5	1,144.3	33.15	35.522		
9,880.0	9,692.2	9,050.0	8,892.1	22.5	19.2	42.23	-106.6	-198.5	1,180.6	1,147.4	33.16	35.603		
9,900.0	9,702.2	9,067.4	8,899.3	22.5	19.2	42.06	-122.4	-198.7	1,182.1	1,148.9	33.22	35.579		
9,950.0	9,724.7	9,100.0	8,911.4	22.5	19.3	41.81	-152.6	-198.9	1,185.0	1,151.6	33.36	35.524		
9,975.0	9,734.4	9,100.0	8,911.4	22.5	19.3	41.78	-152.6	-198.9	1,185.4	1,152.0	33.38	35.514		
10,000.0	9,743.2	9,100.0	8,911.4	22.6	19.3	41.77	-152.6	-198.9	1,185.5	1,152.1	33.40	35.491		
10,050.0	9,757.5	9,126.3	8,920.0	22.6	19.3	41.88	-177.5	-199.1	1,184.2	1,150.7	33.53	35.313		
10,070.0	9,762.1	9,134.2	8,922.3	22.6	19.3	41.97	-185.0	-199.2	1,183.1	1,149.6	33.58	35.232		
10,100.0	9,767.6	9,150.0	8,926.7	22.7	19.3	42.17	-200.2	-199.3	1,181.0	1,147.3	33.66	35.083		
10,150.0	9,773.5	9,165.6	8,930.6	22.7	19.3	42.60	-215.3	-199.5	1,175.8	1,142.0	33.78	34.809		
10,165.0	9,774.4	9,171.4	8,932.0	22.7	19.3	42.76	-221.0	-199.5	1,173.9	1,140.1	33.81	34.716		
10,191.6	9,775.0	9,181.8	8,934.2	22.7	19.3	43.09	-231.1	-199.6	1,170.0	1,136.2	33.87	34.540		
10,200.0	9,775.0	9,200.0	8,937.8	22.7	19.3	43.21	-249.0	-199.8	1,169.0	1,135.1	33.93	34.457		
10,260.0	9,775.0	9,200.0	8,937.8	22.8	19.3	43.21	-249.0	-199.8	1,160.7	1,126.7	34.01	34.126		
10,300.0	9,775.1	9,224.7	8,941.7	22.8	19.3	43.35	-273.4	-200.0	1,156.3	1,122.2	34.13	33.878		
10,355.0	9,775.1	9,250.0	8,944.6	22.9	19.4	43.44	-298.5	-200.2	1,151.6	1,117.3	34.30	33.580		
10,400.0	9,775.1	9,250.0	8,944.6	22.9	19.4	43.44	-298.5	-200.2	1,149.2	1,114.8	34.40	33.410		
10,450.0	9,775.1	9,285.4	8,946.7	23.0	19.4	43.52	-333.8	-200.5	1,147.2	1,112.6	34.60	33.157		
10,500.0	9,775.2	9,311.2	8,947.0	23.1	19.4	43.53	-359.6	-200.8	1,146.8	1,112.0	34.78	32.967		
10,545.0	9,775.2	9,356.2	8,947.1	23.1	19.4	43.53	-404.6	-201.2	1,146.7	1,111.7	34.99	32.771		
10,600.0	9,775.2	9,411.2	8,947.2	23.2	19.4	43.53	-459.6	-201.6	1,146.7	1,111.4	35.25	32.532		
10,640.0	9,775.2	9,451.2	8,947.2	23.3	19.5	43.53	-499.6	-202.0	1,146.7	1,111.2	35.46	32.339		
10,700.0	9,775.3	9,511.2	8,947.3	23.4	19.5	43.53	-559.6	-202.5	1,146.6	1,110.8	35.77	32.052		
10,735.0	9,775.3	9,546.2	8,947.4	23.4	19.5	43.54	-594.6	-202.8	1,146.6	1,110.6	35.98	31.870		
10,800.0	9,775.3	9,611.2	8,947.5	23.5	19.6	43.54	-659.6	-203.4	1,146.6	1,110.2	36.36	31.535		
10,830.0	9,775.3	9,641.2	8,947.5	23.6	19.6	43.54	-689.6	-203.7	1,146.5	1,110.0	36.55	31.370		
10,900.0	9,775.4	9,711.2	8,947.6	23.7	19.6	43.54	-759.6	-204.3	1,146.5	1,109.5	37.00	30.988		
10,925.0	9,775.4	9,736.2	8,947.6	23.8	19.7	43.54	-784.6	-204.5	1,146.5	1,109.3	37.17	30.843		
11,000.0	9,775.4	9,811.2	8,947.8	23.9	19.7	43.54	-859.6	-205.2	1,146.4	1,108.7	37.69	30.416		
11,020.0	9,775.4	9,831.2	8,947.8	24.0	19.7	43.54	-879.6	-205.4	1,146.4	1,108.6	37.84	30.297		
11,100.0	9,775.5	9,911.2	8,947.9	24.1	19.8	43.55	-959.6	-206.1	1,146.3	1,107.9	38.43	29.826		
11,115.0	9,775.5	9,926.2	8,947.9	24.2	19.8	43.55	-974.6	-206.2	1,146.3	1,107.8	38.55	29.734		
11,200.0	9,775.5	10,011.2	8,948.0	24.4	19.9	43.55	-1,059.6	-207.0	1,146.3	1,107.1	39.23	29.223		
11,210.0	9,775.5	10,021.2	8,948.1	24.4	20.0	43.55	-1,069.6	-207.1	1,146.3	1,107.0	39.31	29.161		
11,300.0	9,775.6	10,111.2	8,948.2	24.6	20.1	43.55	-1,159.6	-207.9	1,146.2	1,106.2	40.06	28.612		
11,305.0	9,775.6	10,116.2	8,948.2	24.6	20.1	43.55	-1,164.6	-207.9	1,146.2	1,106.1	40.10	28.581		
11,400.0	9,775.6	10,211.2	8,948.3	24.9	20.2	43.56	-1,259.6	-208.7	1,146.1	1,105.2	40.94	27.997		
11,495.0	9,775.7	10,306.2	8,948.5	25.2	20.4	43.56	-1,354.6	-209.6	1,146.1	1,104.3	41.81	27.414		
11,500.0	9,775.7	10,311.2	8,948.5	25.2	20.4	43.56	-1,359.6	-209.6	1,146.1	1,104.2	41.85	27.383		
11,590.0	9,775.7	10,401.2	8,948.6	25.5	20.6	43.56	-1,449.6	-210.4	1,146.0	1,103.3	42.71	26.833		
11,600.0	9,775.7	10,411.2	8,948.6	25.5	20.6	43.56	-1,459.6	-210.5	1,146.0	1,103.2	42.81	26.772		
11,685.0	9,775.8	10,496.2	8,948.8	25.8	20.8	43.57	-1,544.6	-211.3	1,146.0	1,102.3	43.64	26.257		
11,700.0	9,775.8	10,511.2	8,948.8	25.8	20.9	43.57	-1,559.6	-211.4	1,145.9	1,102.1	43.79	26.167		
11,780.0	9,775.8	10,591.2	8,948.9	26.1	21.1	43.57	-1,639.6	-212.1	1,145.9	1,101.3	44.61	25.689		
11,800.0	9,775.8	10,611.2	8,948.9	26.2	21.2	43.57	-1,659.6	-212.3	1,145.9	1,101.1	44.81	25.571		
11,875.0	9,775.9	10,686.2	8,949.0	26.5	21.4	43.57	-1,734.6	-213.0	1,145.8	1,100.2	45.60	25.129		
11,900.0	9,775.9	10,711.2	8,949.1	26.6	21.5	43.57	-1,759.6	-213.2	1,145.8	1,099.9	45.86	24.984		
11,970.0	9,775.9	10,781.2	8,949.2	26.8	21.7	43.58	-1,829.6	-213.8	1,145.8	1,099.1	46.61	24.580		
12,000.0	9,776.0	10,811.2	8,949.2	26.9	21.8	43.58	-1,859.6	-214.1	1,145.7	1,098.8	46.94	24.410		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #708H - OWB - PWP1													Offset Site Error: 0.0 usft	
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8403-r.5 MWD+IFR1+MS						Rule Assigned:					Offset Well Error: 3.0 usft	
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
12,065.0	9,776.0	10,876.2	8,949.3	27.2	22.1	43.58	-1,924.6	-214.7	1,145.7	1,098.0	47.65	24.043		
12,100.0	9,776.0	10,911.2	8,949.4	27.4	22.2	43.58	-1,959.6	-215.0	1,145.7	1,097.6	48.04	23.849		
12,160.0	9,776.0	10,971.2	8,949.5	27.6	22.5	43.58	-2,019.6	-215.5	1,145.6	1,096.9	48.71	23.517		
12,200.0	9,776.1	11,011.2	8,949.5	27.8	22.6	43.58	-2,059.6	-215.8	1,145.6	1,096.4	49.17	23.301		
12,255.0	9,776.1	11,066.2	8,949.6	28.0	22.9	43.59	-2,114.6	-216.3	1,145.6	1,095.8	49.80	23.005		
12,300.0	9,776.1	11,111.2	8,949.7	28.2	23.1	43.59	-2,159.6	-216.7	1,145.5	1,095.2	50.31	22.767		
12,350.0	9,776.1	11,161.2	8,949.8	28.4	23.3	43.59	-2,209.6	-217.2	1,145.5	1,094.6	50.90	22.505		
12,400.0	9,776.2	11,211.2	8,949.8	28.7	23.6	43.59	-2,259.6	-217.6	1,145.5	1,094.0	51.48	22.249		
12,445.0	9,776.2	11,256.2	8,949.9	28.9	23.8	43.59	-2,304.6	-218.0	1,145.4	1,093.4	52.02	22.019		
12,500.0	9,776.2	11,311.2	8,950.0	29.2	24.1	43.59	-2,359.6	-218.5	1,145.4	1,092.7	52.67	21.745		
12,540.0	9,776.2	11,351.2	8,950.0	29.3	24.3	43.60	-2,399.6	-218.9	1,145.4	1,092.2	53.16	21.547		
12,600.0	9,776.3	11,411.2	8,950.1	29.6	24.6	43.60	-2,459.6	-219.4	1,145.3	1,091.5	53.88	21.256		
12,635.0	9,776.3	11,446.2	8,950.2	29.8	24.8	43.60	-2,494.6	-219.7	1,145.3	1,091.0	54.31	21.088		
12,700.0	9,776.3	11,511.2	8,950.3	30.1	25.2	43.60	-2,559.6	-220.3	1,145.3	1,090.2	55.11	20.783		
12,730.0	9,776.3	11,541.2	8,950.3	30.3	25.3	43.60	-2,589.6	-220.6	1,145.2	1,089.8	55.48	20.643		
12,800.0	9,776.4	11,611.2	8,950.4	30.7	25.7	43.60	-2,659.6	-221.2	1,145.2	1,088.8	56.35	20.324		
12,825.0	9,776.4	11,636.2	8,950.5	30.8	25.9	43.61	-2,684.6	-221.4	1,145.2	1,088.5	56.66	20.211		
12,900.0	9,776.4	11,711.2	8,950.6	31.2	26.3	43.61	-2,759.6	-222.1	1,145.1	1,087.5	57.60	19.880		
12,920.0	9,776.4	11,731.2	8,950.6	31.3	26.4	43.61	-2,779.6	-222.2	1,145.1	1,087.3	57.86	19.792		
13,000.0	9,776.5	11,811.2	8,950.7	31.7	26.9	43.61	-2,859.5	-223.0	1,145.1	1,086.2	58.87	19.450		
13,015.0	9,776.5	11,826.2	8,950.7	31.8	27.0	43.61	-2,874.5	-223.1	1,145.1	1,086.0	59.06	19.386		
13,100.0	9,776.5	11,911.2	8,950.9	32.3	27.5	43.61	-2,959.5	-223.8	1,145.0	1,084.8	60.16	19.034		
13,110.0	9,776.5	11,921.2	8,950.9	32.3	27.6	43.61	-2,969.5	-223.9	1,145.0	1,084.7	60.28	18.993		
13,200.0	9,776.6	12,011.2	8,951.0	32.8	28.2	43.62	-3,059.5	-224.7	1,144.9	1,083.5	61.45	18.632		
13,205.0	9,776.6	12,016.2	8,951.0	32.9	28.2	43.62	-3,064.5	-224.8	1,144.9	1,083.4	61.52	18.612		
13,300.0	9,776.6	12,111.2	8,951.2	33.4	28.8	43.62	-3,159.5	-225.6	1,144.9	1,082.1	62.76	18.243		
13,395.0	9,776.7	12,206.2	8,951.3	34.0	29.4	43.62	-3,254.5	-226.5	1,144.8	1,080.8	64.01	17.885		
13,400.0	9,776.7	12,211.2	8,951.3	34.0	29.4	43.62	-3,259.5	-226.5	1,144.8	1,080.7	64.07	17.867		
13,490.0	9,776.7	12,301.2	8,951.4	34.5	30.0	43.63	-3,349.5	-227.3	1,144.7	1,079.5	65.27	17.539		
13,500.0	9,776.7	12,311.2	8,951.5	34.6	30.1	43.63	-3,359.5	-227.4	1,144.7	1,079.3	65.40	17.503		
13,585.0	9,776.8	12,396.2	8,951.6	35.1	30.6	43.63	-3,444.5	-228.1	1,144.7	1,078.1	66.54	17.204		
13,600.0	9,776.8	12,411.2	8,951.6	35.2	30.7	43.63	-3,459.5	-228.3	1,144.7	1,077.9	66.74	17.152		
13,680.0	9,776.8	12,491.2	8,951.7	35.7	31.3	43.63	-3,539.5	-229.0	1,144.6	1,076.8	67.81	16.879		
13,700.0	9,776.9	12,511.2	8,951.7	35.8	31.4	43.63	-3,559.5	-229.2	1,144.6	1,076.5	68.08	16.812		
13,775.0	9,776.9	12,586.2	8,951.9	36.2	31.9	43.64	-3,634.5	-229.8	1,144.5	1,075.4	69.10	16.564		
13,800.0	9,776.9	12,611.2	8,951.9	36.4	32.1	43.64	-3,659.5	-230.1	1,144.5	1,075.1	69.44	16.483		
13,870.0	9,776.9	12,681.2	8,952.0	36.8	32.5	43.64	-3,729.5	-230.7	1,144.5	1,074.1	70.39	16.259		
13,900.0	9,777.0	12,711.2	8,952.0	37.0	32.7	43.64	-3,759.5	-230.9	1,144.5	1,073.7	70.80	16.165		
13,965.0	9,777.0	12,776.2	8,952.1	37.4	33.2	43.64	-3,824.5	-231.5	1,144.4	1,072.7	71.69	15.963		
14,000.0	9,777.0	12,811.2	8,952.2	37.6	33.4	43.64	-3,859.5	-231.8	1,144.4	1,072.2	72.17	15.857		
14,060.0	9,777.0	12,871.2	8,952.3	38.0	33.8	43.65	-3,919.5	-232.4	1,144.3	1,071.3	73.00	15.677		
14,100.0	9,777.1	12,911.2	8,952.3	38.3	34.1	43.65	-3,959.5	-232.7	1,144.3	1,070.8	73.55	15.559		
14,155.0	9,777.1	12,966.2	8,952.4	38.6	34.5	43.65	-4,014.5	-233.2	1,144.3	1,070.0	74.31	15.399		
14,200.0	9,777.1	13,011.2	8,952.5	38.9	34.8	43.65	-4,059.5	-233.6	1,144.2	1,069.3	74.93	15.271		
14,250.0	9,777.1	13,061.2	8,952.6	39.2	35.1	43.65	-4,109.5	-234.0	1,144.2	1,068.6	75.62	15.130		
14,300.0	9,777.2	13,111.2	8,952.6	39.5	35.5	43.65	-4,159.5	-234.5	1,144.2	1,067.9	76.32	14.992		
14,345.0	9,777.2	13,156.2	8,952.7	39.8	35.8	43.66	-4,204.5	-234.9	1,144.1	1,067.2	76.95	14.869		
14,400.0	9,777.2	13,211.2	8,952.8	40.2	36.2	43.66	-4,259.5	-235.4	1,144.1	1,066.4	77.71	14.722		
14,440.0	9,777.2	13,251.2	8,952.8	40.4	36.4	43.66	-4,299.5	-235.7	1,144.1	1,065.8	78.28	14.616		
14,500.0	9,777.3	13,311.2	8,952.9	40.8	36.9	43.66	-4,359.5	-236.3	1,144.0	1,064.9	79.12	14.460		
14,535.0	9,777.3	13,346.2	8,953.0	41.1	37.1	43.66	-4,394.5	-236.6	1,144.0	1,064.4	79.61	14.371		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #708H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8403-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Offset	Highside	Offset Wellbore Centre	Distance	Minimum	Separation	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor
14,600.0	9,777.3	13,411.2	8,953.1	41.5	37.6	43.66	-4,459.5	-237.2	1,144.0	1,063.5	80.52	14.207
14,630.0	9,777.3	13,441.2	8,953.1	41.7	37.8	43.67	-4,489.5	-237.4	1,144.0	1,063.0	80.95	14.132
14,700.0	9,777.4	13,511.2	8,953.2	42.2	38.3	43.67	-4,559.5	-238.0	1,143.9	1,062.0	81.93	13.961
14,725.0	9,777.4	13,536.2	8,953.3	42.3	38.4	43.67	-4,584.5	-238.3	1,143.9	1,061.6	82.29	13.901
14,800.0	9,777.4	13,611.2	8,953.4	42.8	39.0	43.67	-4,659.5	-238.9	1,143.8	1,060.5	83.35	13.723
14,820.0	9,777.4	13,631.2	8,953.4	42.9	39.1	43.67	-4,679.5	-239.1	1,143.8	1,060.2	83.64	13.676
14,900.0	9,777.5	13,711.2	8,953.5	43.5	39.7	43.67	-4,759.5	-239.8	1,143.8	1,059.0	84.77	13.492
14,915.0	9,777.5	13,726.2	8,953.5	43.6	39.8	43.68	-4,774.5	-239.9	1,143.8	1,058.8	84.99	13.458
15,000.0	9,777.5	13,811.2	8,953.7	44.2	40.4	43.68	-4,859.5	-240.7	1,143.7	1,057.5	86.20	13.268
15,010.0	9,777.5	13,821.2	8,953.7	44.2	40.4	43.68	-4,869.5	-240.8	1,143.7	1,057.4	86.34	13.246
15,100.0	9,777.6	13,911.2	8,953.8	44.8	41.1	43.68	-4,959.5	-241.6	1,143.6	1,056.0	87.63	13.051
15,105.0	9,777.6	13,916.2	8,953.8	44.9	41.1	43.68	-4,964.5	-241.6	1,143.6	1,055.9	87.70	13.040
15,200.0	9,777.6	14,011.2	8,954.0	45.5	41.8	43.68	-5,059.5	-242.5	1,143.6	1,054.5	89.06	12.840
15,295.0	9,777.7	14,106.2	8,954.1	46.2	42.5	43.69	-5,154.5	-243.3	1,143.5	1,053.1	90.43	12.646
15,300.0	9,777.7	14,111.2	8,954.1	46.2	42.5	43.69	-5,159.5	-243.4	1,143.5	1,053.0	90.50	12.636
15,390.0	9,777.7	14,201.2	8,954.2	46.8	43.2	43.69	-5,249.4	-244.2	1,143.4	1,051.6	91.80	12.456
15,400.0	9,777.7	14,211.2	8,954.3	46.9	43.2	43.69	-5,259.4	-244.3	1,143.4	1,051.5	91.94	12.437
15,485.0	9,777.8	14,296.2	8,954.4	47.5	43.8	43.69	-5,344.4	-245.0	1,143.4	1,050.2	93.17	12.272
15,500.0	9,777.8	14,311.2	8,954.4	47.6	44.0	43.69	-5,359.4	-245.1	1,143.4	1,050.0	93.38	12.244
15,580.0	9,777.8	14,391.2	8,954.5	48.1	44.5	43.70	-5,439.4	-245.9	1,143.3	1,048.8	94.54	12.093
15,600.0	9,777.9	14,411.2	8,954.6	48.2	44.7	43.70	-5,459.4	-246.0	1,143.3	1,048.5	94.83	12.056
15,675.0	9,777.9	14,486.2	8,954.7	48.8	45.2	43.70	-5,534.4	-246.7	1,143.2	1,047.3	95.92	11.919
15,700.0	9,777.9	14,511.2	8,954.7	48.9	45.4	43.70	-5,559.4	-246.9	1,143.2	1,046.9	96.28	11.874
15,770.0	9,777.9	14,581.2	8,954.8	49.4	45.9	43.70	-5,629.4	-247.5	1,143.2	1,045.9	97.30	11.749
15,800.0	9,778.0	14,611.2	8,954.9	49.6	46.1	43.70	-5,659.4	-247.8	1,143.2	1,045.4	97.74	11.696
15,865.0	9,778.0	14,676.2	8,955.0	50.1	46.6	43.71	-5,724.4	-248.4	1,143.1	1,044.4	98.68	11.584
15,900.0	9,778.0	14,711.2	8,955.0	50.3	46.8	43.71	-5,759.4	-248.7	1,143.1	1,043.9	99.19	11.524
15,960.0	9,778.0	14,771.2	8,955.1	50.8	47.3	43.71	-5,819.4	-249.2	1,143.1	1,043.0	100.07	11.423
16,000.0	9,778.1	14,811.2	8,955.2	51.0	47.6	43.71	-5,859.4	-249.6	1,143.0	1,042.4	100.65	11.356
16,055.0	9,778.1	14,866.2	8,955.2	51.4	48.0	43.71	-5,914.4	-250.1	1,143.0	1,041.5	101.46	11.266
16,100.0	9,778.1	14,911.2	8,955.3	51.7	48.3	43.72	-5,959.4	-250.5	1,143.0	1,040.8	102.12	11.193
16,150.0	9,778.1	14,961.2	8,955.4	52.1	48.7	43.72	-6,009.4	-250.9	1,142.9	1,040.1	102.85	11.113
16,200.0	9,778.2	15,011.2	8,955.4	52.4	49.0	43.72	-6,059.4	-251.4	1,142.9	1,039.3	103.58	11.034
16,245.0	9,778.2	15,056.2	8,955.5	52.8	49.4	43.72	-6,104.4	-251.8	1,142.9	1,038.6	104.24	10.964
16,300.0	9,778.2	15,111.2	8,955.6	53.1	49.8	43.72	-6,159.4	-252.2	1,142.8	1,037.8	105.05	10.879
16,340.0	9,778.2	15,151.2	8,955.7	53.4	50.1	43.72	-6,199.4	-252.6	1,142.8	1,037.2	105.63	10.818
16,400.0	9,778.3	15,211.2	8,955.7	53.8	50.5	43.73	-6,259.4	-253.1	1,142.8	1,036.2	106.52	10.729
16,435.0	9,778.3	15,246.2	8,955.8	54.1	50.7	43.73	-6,294.4	-253.4	1,142.7	1,035.7	107.03	10.677
16,500.0	9,778.3	15,311.2	8,955.9	54.6	51.2	43.73	-6,359.4	-254.0	1,142.7	1,034.7	107.99	10.582
16,530.0	9,778.3	15,341.2	8,955.9	54.8	51.4	43.73	-6,389.4	-254.3	1,142.7	1,034.2	108.43	10.538
16,600.0	9,778.4	15,411.2	8,956.0	55.3	52.0	43.73	-6,459.4	-254.9	1,142.6	1,033.2	109.46	10.439
16,625.0	9,778.4	15,436.2	8,956.1	55.4	52.1	43.73	-6,484.4	-255.1	1,142.6	1,032.8	109.83	10.403
16,700.0	9,778.4	15,511.2	8,956.2	56.0	52.7	43.74	-6,559.4	-255.8	1,142.6	1,031.6	110.94	10.299
16,720.0	9,778.4	15,531.2	8,956.2	56.1	52.8	43.74	-6,579.4	-256.0	1,142.5	1,031.3	111.23	10.272
16,800.0	9,778.5	15,611.2	8,956.3	56.7	53.4	43.74	-6,659.4	-256.7	1,142.5	1,030.1	112.41	10.163
16,815.0	9,778.5	15,626.2	8,956.4	56.8	53.5	43.74	-6,674.4	-256.8	1,142.5	1,029.8	112.64	10.143
16,900.0	9,778.5	15,711.2	8,956.5	57.4	54.2	43.74	-6,759.4	-257.6	1,142.4	1,028.5	113.89	10.031
16,910.0	9,778.5	15,721.2	8,956.5	57.5	54.2	43.74	-6,769.4	-257.7	1,142.4	1,028.4	114.04	10.018
17,000.0	9,778.6	15,811.2	8,956.6	58.1	54.9	43.75	-6,859.4	-258.5	1,142.4	1,027.0	115.37	9.901
17,005.0	9,778.6	15,816.2	8,956.6	58.2	54.9	43.75	-6,864.4	-258.5	1,142.3	1,026.9	115.45	9.895
17,100.0	9,778.6	15,911.2	8,956.8	58.8	55.6	43.75	-6,959.4	-259.3	1,142.3	1,025.4	116.86	9.775

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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 Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor
17,195.0	9,778.7	16,006.2	8,956.9	59.5	56.3	43.75	-7,054.4	-260.2	1,142.2	1,024.0	118.27	9.658
17,200.0	9,778.7	16,011.2	8,956.9	59.6	56.4	43.75	-7,059.4	-260.2	1,142.2	1,023.9	118.34	9.652
17,290.0	9,778.7	16,101.2	8,957.1	60.2	57.0	43.76	-7,149.4	-261.0	1,142.2	1,022.5	119.68	9.544
17,300.0	9,778.7	16,111.2	8,957.1	60.3	57.1	43.76	-7,159.4	-261.1	1,142.1	1,022.3	119.83	9.532
17,385.0	9,778.8	16,196.2	8,957.2	60.9	57.7	43.76	-7,244.4	-261.9	1,142.1	1,021.0	121.09	9.432
17,400.0	9,778.8	16,211.2	8,957.2	61.0	57.9	43.76	-7,259.4	-262.0	1,142.1	1,020.8	121.31	9.414
17,480.0	9,778.8	16,291.2	8,957.3	61.6	58.4	43.76	-7,339.4	-262.7	1,142.0	1,019.5	122.51	9.322
17,500.0	9,778.9	16,311.2	8,957.4	61.7	58.6	43.76	-7,359.4	-262.9	1,142.0	1,019.2	122.80	9.299
17,575.0	9,778.9	16,386.2	8,957.5	62.3	59.2	43.76	-7,434.4	-263.6	1,142.0	1,018.0	123.92	9.215
17,600.0	9,778.9	16,411.2	8,957.5	62.4	59.3	43.77	-7,459.4	-263.8	1,141.9	1,017.7	124.29	9.187
17,670.0	9,778.9	16,481.2	8,957.6	62.9	59.9	43.77	-7,529.4	-264.4	1,141.9	1,016.6	125.34	9.110
17,700.0	9,779.0	16,511.2	8,957.7	63.2	60.1	43.77	-7,559.4	-264.7	1,141.9	1,016.1	125.79	9.078
17,765.0	9,779.0	16,576.2	8,957.8	63.6	60.6	43.77	-7,624.4	-265.2	1,141.8	1,015.1	126.76	9.008
17,800.0	9,779.0	16,611.2	8,957.8	63.9	60.8	43.77	-7,659.4	-265.6	1,141.8	1,014.5	127.28	8.971
17,860.0	9,779.0	16,671.2	8,957.9	64.3	61.3	43.77	-7,719.3	-266.1	1,141.8	1,013.6	128.18	8.908
17,900.0	9,779.1	16,711.2	8,958.0	64.6	61.6	43.78	-7,759.3	-266.4	1,141.7	1,013.0	128.77	8.866
17,955.0	9,779.1	16,766.2	8,958.0	65.0	62.0	43.78	-7,814.3	-266.9	1,141.7	1,012.1	129.60	8.810
18,000.0	9,779.1	16,811.2	8,958.1	65.3	62.3	43.78	-7,859.3	-267.3	1,141.7	1,011.4	130.27	8.764
18,050.0	9,779.1	16,861.2	8,958.2	65.7	62.7	43.78	-7,909.3	-267.8	1,141.6	1,010.6	131.02	8.714
18,100.0	9,779.2	16,911.2	8,958.3	66.1	63.1	43.78	-7,959.3	-268.2	1,141.6	1,009.8	131.77	8.664
18,145.0	9,779.2	16,956.2	8,958.3	66.4	63.4	43.78	-8,004.3	-268.6	1,141.6	1,009.1	132.44	8.620
18,200.0	9,779.2	17,011.2	8,958.4	66.8	63.8	43.79	-8,059.3	-269.1	1,141.5	1,008.3	133.27	8.566
18,240.0	9,779.2	17,051.2	8,958.5	67.1	64.1	43.79	-8,099.3	-269.5	1,141.5	1,007.6	133.87	8.527
18,300.0	9,779.3	17,111.2	8,958.6	67.5	64.5	43.79	-8,159.3	-270.0	1,141.5	1,006.7	134.76	8.470
18,335.0	9,779.3	17,146.2	8,958.6	67.8	64.8	43.79	-8,194.3	-270.3	1,141.5	1,006.2	135.29	8.437
18,400.0	9,779.3	17,211.2	8,958.7	68.3	65.3	43.79	-8,259.3	-270.9	1,141.4	1,005.1	136.27	8.376
18,430.0	9,779.3	17,241.2	8,958.7	68.5	65.5	43.79	-8,289.3	-271.1	1,141.4	1,004.7	136.72	8.349
18,500.0	9,779.4	17,311.2	8,958.9	69.0	66.0	43.80	-8,359.3	-271.8	1,141.3	1,003.6	137.77	8.285
18,525.0	9,779.4	17,336.2	8,958.9	69.2	66.2	43.80	-8,384.3	-272.0	1,141.3	1,003.2	138.14	8.262
18,600.0	9,779.4	17,411.2	8,959.0	69.7	66.8	43.80	-8,459.3	-272.7	1,141.3	1,002.0	139.27	8.195
18,620.0	9,779.4	17,431.2	8,959.0	69.9	66.9	43.80	-8,479.3	-272.8	1,141.3	1,001.7	139.57	8.177
18,700.0	9,779.5	17,511.2	8,959.1	70.4	67.5	43.80	-8,559.3	-273.5	1,141.2	1,000.4	140.77	8.107
18,715.0	9,779.5	17,526.2	8,959.2	70.6	67.6	43.80	-8,574.3	-273.7	1,141.2	1,000.2	141.00	8.094
18,800.0	9,779.5	17,611.2	8,959.3	71.2	68.3	43.81	-8,659.3	-274.4	1,141.1	998.9	142.28	8.021
18,810.0	9,779.5	17,621.2	8,959.3	71.3	68.3	43.81	-8,669.3	-274.5	1,141.1	998.7	142.43	8.012
18,900.0	9,779.6	17,711.2	8,959.4	71.9	69.0	43.81	-8,759.3	-275.3	1,141.1	997.3	143.78	7.936
18,905.0	9,779.6	17,716.2	8,959.5	72.0	69.1	43.81	-8,764.3	-275.4	1,141.1	997.2	143.86	7.932
19,000.0	9,779.6	17,811.2	8,959.6	72.6	69.8	43.81	-8,859.3	-276.2	1,141.0	995.7	145.29	7.853
19,095.0	9,779.7	17,906.2	8,959.7	73.3	70.5	43.82	-8,954.3	-277.1	1,140.9	994.2	146.72	7.776
19,100.0	9,779.7	17,911.2	8,959.7	73.4	70.5	43.82	-8,959.3	-277.1	1,140.9	994.1	146.80	7.772
19,190.0	9,779.7	18,001.2	8,959.9	74.0	71.2	43.82	-9,049.3	-277.9	1,140.9	992.7	148.15	7.701
19,200.0	9,779.8	18,011.2	8,959.9	74.1	71.3	43.82	-9,059.3	-278.0	1,140.9	992.6	148.30	7.693
19,285.0	9,779.8	18,096.2	8,960.0	74.7	71.9	43.82	-9,144.3	-278.7	1,140.8	991.2	149.59	7.626
19,300.0	9,779.8	18,111.2	8,960.0	74.9	72.0	43.82	-9,159.3	-278.9	1,140.8	991.0	149.81	7.615
19,380.0	9,779.8	18,191.2	8,960.2	75.4	72.6	43.83	-9,239.3	-279.6	1,140.7	989.7	151.02	7.554
19,400.0	9,779.9	18,211.2	8,960.2	75.6	72.8	43.83	-9,259.3	-279.8	1,140.7	989.4	151.32	7.538
19,475.0	9,779.9	18,286.2	8,960.3	76.1	73.3	43.83	-9,334.3	-280.4	1,140.7	988.2	152.45	7.482
19,500.0	9,779.9	18,311.2	8,960.3	76.3	73.5	43.83	-9,359.3	-280.6	1,140.7	987.8	152.83	7.464
19,570.0	9,779.9	18,381.2	8,960.4	76.8	74.0	43.83	-9,429.3	-281.3	1,140.6	986.7	153.89	7.412
19,600.0	9,780.0	18,411.2	8,960.5	77.1	74.3	43.83	-9,459.3	-281.5	1,140.6	986.3	154.34	7.390
19,665.0	9,780.0	18,476.2	8,960.6	77.5	74.7	43.84	-9,524.3	-282.1	1,140.6	985.2	155.32	7.343

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 #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #708H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8403-r.5 MWD+IFR1+MS						Rule Assigned:					Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation		Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
19,700.0	9,780.0	18,511.2	8,960.6	77.8	75.0	43.84	-9,559.3	-282.4	1,140.5	984.7	155.85	7.318		
19,760.0	9,780.0	18,571.2	8,960.7	78.3	75.5	43.84	-9,619.3	-283.0	1,140.5	983.7	156.76	7.275		
19,800.0	9,780.1	18,611.2	8,960.8	78.5	75.8	43.84	-9,659.3	-283.3	1,140.5	983.1	157.37	7.247		
19,855.0	9,780.1	18,666.2	8,960.9	79.0	76.2	43.84	-9,714.3	-283.8	1,140.4	982.2	158.20	7.209		
19,900.0	9,780.1	18,711.2	8,960.9	79.3	76.5	43.84	-9,759.3	-284.2	1,140.4	981.5	158.88	7.178		
19,950.0	9,780.1	18,761.2	8,961.0	79.7	76.9	43.84	-9,809.3	-284.6	1,140.4	980.7	159.64	7.143		
20,000.0	9,780.2	18,811.2	8,961.1	80.0	77.3	43.85	-9,859.3	-285.1	1,140.3	979.9	160.39	7.110		
20,045.0	9,780.2	18,856.2	8,961.1	80.4	77.6	43.85	-9,904.3	-285.5	1,140.3	979.2	161.07	7.079		
20,100.0	9,780.2	18,911.2	8,961.2	80.8	78.0	43.85	-9,959.3	-286.0	1,140.3	978.4	161.91	7.043		
20,140.0	9,780.2	18,951.2	8,961.3	81.1	78.3	43.85	-9,999.3	-286.3	1,140.2	977.7	162.51	7.016		
20,200.0	9,780.3	19,011.2	8,961.4	81.5	78.8	43.85	-10,059.3	-286.9	1,140.2	976.8	163.42	6.977		
20,235.0	9,780.3	19,046.2	8,961.4	81.8	79.0	43.85	-10,094.3	-287.2	1,140.2	976.2	163.95	6.954		
20,300.0	9,780.3	19,111.2	8,961.5	82.3	79.5	43.86	-10,159.2	-287.7	1,140.1	975.2	164.94	6.912		
20,330.0	9,780.3	19,141.2	8,961.6	82.5	79.7	43.86	-10,189.2	-288.0	1,140.1	974.7	165.39	6.893		
20,400.0	9,780.4	19,211.2	8,961.7	83.0	80.3	43.86	-10,259.2	-288.6	1,140.1	973.6	166.45	6.849		
20,425.0	9,780.4	19,236.2	8,961.7	83.2	80.5	43.86	-10,284.2	-288.9	1,140.0	973.2	166.83	6.833		
20,500.0	9,780.4	19,311.2	8,961.8	83.7	81.0	43.86	-10,359.2	-289.5	1,140.0	972.0	167.97	6.787		
20,520.0	9,780.4	19,331.2	8,961.8	83.9	81.2	43.86	-10,379.2	-289.7	1,140.0	971.7	168.27	6.775		
20,600.0	9,780.5	19,411.2	8,962.0	84.5	81.8	43.87	-10,459.2	-290.4	1,139.9	970.4	169.49	6.726		
20,615.0	9,780.5	19,426.2	8,962.0	84.6	81.9	43.87	-10,474.2	-290.5	1,139.9	970.2	169.72	6.717		
20,700.0	9,780.5	19,511.2	8,962.1	85.2	82.5	43.87	-10,559.2	-291.3	1,139.9	968.8	171.01	6.666		
20,710.0	9,780.5	19,521.2	8,962.1	85.3	82.6	43.87	-10,569.2	-291.4	1,139.8	968.7	171.16	6.660		
20,800.0	9,780.6	19,611.2	8,962.3	86.0	83.3	43.87	-10,659.2	-292.2	1,139.8	967.3	172.52	6.607		
20,805.0	9,780.6	19,616.2	8,962.3	86.0	83.3	43.87	-10,664.2	-292.2	1,139.8	967.2	172.60	6.604		
20,900.0	9,780.6	19,711.2	8,962.4	86.7	84.0	43.88	-10,759.2	-293.1	1,139.7	965.7	174.04	6.548		
20,995.0	9,780.7	19,806.2	8,962.5	87.4	84.7	43.88	-10,854.2	-293.9	1,139.7	964.2	175.49	6.494		
21,000.0	9,780.7	19,811.2	8,962.6	87.5	84.8	43.88	-10,859.2	-294.0	1,139.7	964.1	175.56	6.491		
21,090.0	9,780.7	19,901.2	8,962.7	88.1	85.5	43.88	-10,949.2	-294.8	1,139.6	962.7	176.93	6.441		
21,100.0	9,780.8	19,911.2	8,962.7	88.2	85.5	43.88	-10,959.2	-294.8	1,139.6	962.5	177.08	6.435		
21,185.0	9,780.8	19,996.2	8,962.8	88.8	86.2	43.89	-11,044.2	-295.6	1,139.5	961.2	178.37	6.388		
21,200.0	9,780.8	20,011.2	8,962.8	88.9	86.3	43.89	-11,059.2	-295.7	1,139.5	960.9	178.60	6.380		
21,280.0	9,780.8	20,091.2	8,963.0	89.5	86.9	43.89	-11,139.2	-296.4	1,139.5	959.6	179.82	6.337		
21,300.0	9,780.9	20,111.2	8,963.0	89.7	87.0	43.89	-11,159.2	-296.6	1,139.4	959.3	180.12	6.326		
21,375.0	9,780.9	20,186.2	8,963.1	90.2	87.6	43.89	-11,234.2	-297.3	1,139.4	958.1	181.26	6.286		
21,400.0	9,780.9	20,211.2	8,963.1	90.4	87.8	43.89	-11,259.2	-297.5	1,139.4	957.7	181.64	6.273		
21,470.0	9,780.9	20,281.2	8,963.2	91.0	88.3	43.90	-11,329.2	-298.1	1,139.3	956.6	182.71	6.236		
21,500.0	9,781.0	20,311.2	8,963.3	91.2	88.6	43.90	-11,359.2	-298.4	1,139.3	956.1	183.17	6.220		
21,565.0	9,781.0	20,376.2	8,963.4	91.7	89.0	43.90	-11,424.2	-299.0	1,139.3	955.1	184.16	6.186		
21,600.0	9,781.0	20,411.2	8,963.4	91.9	89.3	43.90	-11,459.2	-299.3	1,139.2	954.6	184.69	6.168		
21,660.0	9,781.0	20,471.2	8,963.5	92.4	89.8	43.90	-11,519.2	-299.8	1,139.2	953.6	185.60	6.138		
21,700.0	9,781.1	20,511.2	8,963.6	92.7	90.1	43.90	-11,559.2	-300.2	1,139.2	953.0	186.21	6.118		
21,755.0	9,781.1	20,566.2	8,963.7	93.1	90.5	43.91	-11,614.2	-300.7	1,139.1	952.1	187.05	6.090		
21,800.0	9,781.1	20,611.2	8,963.7	93.4	90.8	43.91	-11,659.2	-301.1	1,139.1	951.4	187.73	6.068		
21,850.0	9,781.1	20,661.2	8,963.8	93.8	91.2	43.91	-11,709.2	-301.5	1,139.1	950.6	188.50	6.043		
21,900.0	9,781.2	20,711.2	8,963.9	94.2	91.6	43.91	-11,759.2	-302.0	1,139.0	949.8	189.26	6.018		
21,945.0	9,781.2	20,756.2	8,963.9	94.5	91.9	43.91	-11,804.2	-302.4	1,139.0	949.1	189.94	5.997		
22,000.0	9,781.2	20,811.2	8,964.0	94.9	92.3	43.91	-11,859.2	-302.8	1,139.0	948.2	190.78	5.970		
22,040.0	9,781.2	20,851.2	8,964.1	95.2	92.6	43.92	-11,899.2	-303.2	1,138.9	947.6	191.39	5.951		
22,100.0	9,781.3	20,911.2	8,964.2	95.7	93.1	43.92	-11,959.2	-303.7	1,138.9	946.6	192.31	5.922		
22,135.0	9,781.3	20,946.2	8,964.2	95.9	93.3	43.92	-11,994.2	-304.0	1,138.9	946.0	192.84	5.906		
22,200.0	9,781.3	21,011.2	8,964.3	96.4	93.8	43.92	-12,059.2	-304.6	1,138.8	945.0	193.83	5.875		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #708H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8403-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
22,230.0	9,781.3	21,041.2	8,964.4	96.6	94.1	43.92	-12,089.2	-304.9	1,138.8	944.5	194.29	5.862	
22,300.0	9,781.4	21,111.2	8,964.5	97.2	94.6	43.92	-12,159.2	-305.5	1,138.8	943.4	195.35	5.829	
22,325.0	9,781.4	21,136.2	8,964.5	97.3	94.8	43.92	-12,184.2	-305.7	1,138.8	943.0	195.74	5.818	
22,400.0	9,781.4	21,211.2	8,964.6	97.9	95.3	43.93	-12,259.2	-306.4	1,138.7	941.8	196.88	5.784	
22,420.0	9,781.4	21,231.2	8,964.7	98.1	95.5	43.93	-12,279.2	-306.6	1,138.7	941.5	197.19	5.775	
22,500.0	9,781.5	21,311.2	8,964.8	98.7	96.1	43.93	-12,359.2	-307.3	1,138.6	940.2	198.41	5.739	
22,515.0	9,781.5	21,326.2	8,964.8	98.8	96.2	43.93	-12,374.2	-307.4	1,138.6	940.0	198.63	5.732	
22,600.0	9,781.5	21,411.2	8,964.9	99.4	96.9	43.93	-12,459.2	-308.2	1,138.6	938.6	199.93	5.695	
22,610.0	9,781.5	21,421.2	8,964.9	99.5	96.9	43.93	-12,469.2	-308.3	1,138.6	938.5	200.08	5.690	
22,700.0	9,781.6	21,511.2	8,965.1	100.2	97.6	43.94	-12,559.1	-309.1	1,138.5	937.0	201.46	5.651	
22,705.0	9,781.6	21,516.2	8,965.1	100.2	97.7	43.94	-12,564.1	-309.1	1,138.5	937.0	201.53	5.649	
22,800.0	9,781.6	21,611.2	8,965.2	100.9	98.4	43.94	-12,659.1	-309.9	1,138.4	935.5	202.98	5.609	
22,895.0	9,781.7	21,706.2	8,965.4	101.6	99.1	43.94	-12,754.1	-310.8	1,138.4	933.9	204.43	5.568	
22,900.0	9,781.7	21,711.2	8,965.4	101.7	99.1	43.94	-12,759.1	-310.8	1,138.4	933.9	204.51	5.566	
22,990.0	9,781.7	21,801.2	8,965.5	102.3	99.8	43.95	-12,849.1	-311.6	1,138.3	932.4	205.89	5.529	
23,000.0	9,781.8	21,811.2	8,965.5	102.4	99.9	43.95	-12,859.1	-311.7	1,138.3	932.3	206.04	5.525	
23,085.0	9,781.8	21,896.2	8,965.6	103.0	100.5	43.95	-12,944.1	-312.5	1,138.2	930.9	207.34	5.490	
23,100.0	9,781.8	21,911.2	8,965.7	103.2	100.6	43.95	-12,959.1	-312.6	1,138.2	930.7	207.57	5.484	
23,180.0	9,781.9	21,991.2	8,965.8	103.8	101.2	43.95	-13,039.1	-313.3	1,138.2	929.4	208.79	5.451	
23,200.0	9,781.9	22,011.2	8,965.8	103.9	101.4	43.95	-13,059.1	-313.5	1,138.2	929.1	209.09	5.443	
23,275.0	9,781.9	22,086.2	8,965.9	104.5	102.0	43.96	-13,134.1	-314.2	1,138.1	927.9	210.24	5.413	
23,300.0	9,781.9	22,111.2	8,966.0	104.7	102.2	43.96	-13,159.1	-314.4	1,138.1	927.5	210.62	5.404	
23,370.0	9,782.0	22,181.2	8,966.1	105.2	102.7	43.96	-13,229.1	-315.0	1,138.1	926.4	211.69	5.376	
23,400.0	9,782.0	22,211.2	8,966.1	105.4	102.9	43.96	-13,259.1	-315.3	1,138.0	925.9	212.15	5.364	
23,465.0	9,782.0	22,276.2	8,966.2	105.9	103.4	43.96	-13,324.1	-315.8	1,138.0	924.8	213.14	5.339	
23,500.0	9,782.0	22,311.2	8,966.2	106.2	103.7	43.96	-13,359.1	-316.2	1,138.0	924.3	213.68	5.326	
23,560.0	9,782.1	22,371.2	8,966.3	106.6	104.1	43.97	-13,419.1	-316.7	1,137.9	923.3	214.60	5.303	
23,600.0	9,782.1	22,411.2	8,966.4	106.9	104.4	43.97	-13,459.1	-317.0	1,137.9	922.7	215.21	5.287	
23,655.0	9,782.1	22,466.2	8,966.5	107.3	104.8	43.97	-13,514.1	-317.5	1,137.9	921.8	216.05	5.267	
23,700.0	9,782.1	22,511.2	8,966.5	107.7	105.2	43.97	-13,559.1	-317.9	1,137.8	921.1	216.74	5.250	
23,750.0	9,782.2	22,561.2	8,966.6	108.0	105.6	43.97	-13,609.1	-318.4	1,137.8	920.3	217.50	5.231	
23,800.0	9,782.2	22,611.2	8,966.7	108.4	105.9	43.97	-13,659.1	-318.8	1,137.8	919.5	218.27	5.213	
23,845.0	9,782.2	22,656.2	8,966.8	108.7	106.3	43.98	-13,704.1	-319.2	1,137.7	918.8	218.95	5.196	
23,900.0	9,782.2	22,711.2	8,966.8	109.2	106.7	43.98	-13,759.1	-319.7	1,137.7	917.9	219.80	5.176	
23,940.0	9,782.3	22,751.2	8,966.9	109.5	107.0	43.98	-13,799.1	-320.1	1,137.7	917.3	220.41	5.162	
24,000.0	9,782.3	22,811.2	8,967.0	109.9	107.5	43.98	-13,859.1	-320.6	1,137.6	916.3	221.33	5.140	
24,035.0	9,782.3	22,846.2	8,967.0	110.2	107.7	43.98	-13,894.1	-320.9	1,137.6	915.7	221.86	5.128	
24,100.0	9,782.3	22,911.2	8,967.1	110.7	108.2	43.99	-13,959.1	-321.5	1,137.6	914.7	222.86	5.104	
24,130.0	9,782.4	22,941.2	8,967.2	110.9	108.4	43.99	-13,989.1	-321.7	1,137.5	914.2	223.31	5.094	
24,200.0	9,782.4	23,011.2	8,967.3	111.4	109.0	43.99	-14,059.1	-322.4	1,137.5	913.1	224.39	5.069	
24,225.0	9,782.4	23,036.2	8,967.3	111.6	109.2	43.99	-14,084.1	-322.6	1,137.5	912.7	224.77	5.061	
24,300.0	9,782.4	23,111.2	8,967.4	112.2	109.7	43.99	-14,159.1	-323.3	1,137.4	911.5	225.92	5.035	
24,320.0	9,782.5	23,131.2	8,967.5	112.3	109.9	43.99	-14,179.1	-323.4	1,137.4	911.2	226.22	5.028	
24,400.0	9,782.5	23,211.2	8,967.6	112.9	110.5	44.00	-14,259.1	-324.1	1,137.4	909.9	227.45	5.001	
24,415.0	9,782.5	23,226.2	8,967.6	113.0	110.6	44.00	-14,274.1	-324.3	1,137.3	909.7	227.68	4.995	
24,500.0	9,782.5	23,311.2	8,967.7	113.7	111.2	44.00	-14,359.1	-325.0	1,137.3	908.3	228.98	4.967	
24,510.0	9,782.6	23,321.2	8,967.7	113.7	111.3	44.00	-14,369.1	-325.1	1,137.3	908.2	229.13	4.963	
24,600.0	9,782.6	23,411.2	8,967.9	114.4	112.0	44.00	-14,459.1	-325.9	1,137.2	906.7	230.51	4.934	
24,605.0	9,782.6	23,416.2	8,967.9	114.5	112.0	44.00	-14,464.1	-326.0	1,137.2	906.6	230.59	4.932	
24,700.0	9,782.7	23,511.2	8,968.0	115.2	112.8	44.01	-14,559.1	-326.8	1,137.2	905.1	232.04	4.901	
24,795.0	9,782.7	23,606.2	8,968.2	115.9	113.5	44.01	-14,654.1	-327.6	1,137.1	903.6	233.50	4.870	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #708H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8403-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Rule Assigned:		Distance		Minimum Separation	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
24,800.0	9,782.7	23,611.2	8,968.2	115.9	113.5	44.01	-14,659.1	-327.7	1,137.1	903.5	233.57	4.868	
24,890.0	9,782.8	23,701.2	8,968.3	116.6	114.2	44.01	-14,749.1	-328.5	1,137.0	902.1	234.95	4.839	
24,900.0	9,782.8	23,711.2	8,968.3	116.7	114.3	44.01	-14,759.1	-328.6	1,137.0	901.9	235.10	4.836	
24,985.0	9,782.8	23,796.2	8,968.4	117.3	114.9	44.02	-14,844.1	-329.3	1,137.0	900.6	236.41	4.809	
25,000.0	9,782.8	23,811.2	8,968.5	117.4	115.0	44.02	-14,859.1	-329.5	1,137.0	900.3	236.64	4.805	
25,080.0	9,782.9	23,891.2	8,968.6	118.0	115.6	44.02	-14,939.1	-330.2	1,136.9	899.0	237.86	4.780	
25,100.0	9,782.9	23,911.2	8,968.6	118.2	115.8	44.02	-14,959.1	-330.4	1,136.9	898.7	238.17	4.773	
25,175.0	9,782.9	23,986.2	8,968.7	118.8	116.4	44.02	-15,034.0	-331.0	1,136.8	897.5	239.32	4.750	
25,200.0	9,782.9	24,011.2	8,968.8	118.9	116.6	44.02	-15,059.0	-331.2	1,136.8	897.1	239.70	4.743	
25,229.2	9,782.9	24,040.4	8,968.8	119.2	116.8	44.02	-15,088.2	-331.5	1,136.8	896.7	240.15	4.734	
25,270.0	9,783.0	24,081.2	8,968.9	119.5	117.1	44.02	-15,129.0	-331.9	1,136.8	896.0	240.77	4.721	
25,300.0	9,783.0	24,111.2	8,968.9	119.7	117.3	44.03	-15,159.0	-332.1	1,136.8	895.5	241.23	4.712	
25,359.2	9,783.0	24,170.4	8,969.0	120.1	117.8	44.03	-15,218.2	-332.7	1,136.7	894.6	242.14	4.695 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 #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	4.0	4.0	3.0	3.0	-168.91	-150.5	-29.5	153.4					
95.0	95.0	99.0	99.0	3.0	3.0	-168.91	-150.5	-29.5	153.4	147.3	6.04	25.400		
100.0	100.0	104.0	104.0	3.0	3.0	-168.91	-150.5	-29.5	153.4	147.3	6.04	25.374		
190.0	190.0	194.0	194.0	3.1	3.1	-168.91	-150.5	-29.5	153.4	147.1	6.27	24.479		
200.0	200.0	204.0	204.0	3.1	3.2	-168.91	-150.5	-29.5	153.4	147.1	6.30	24.353		
285.0	285.0	289.0	289.0	3.3	3.3	-168.91	-150.5	-29.5	153.4	146.9	6.51	23.572		
300.0	300.0	304.0	304.0	3.3	3.3	-168.91	-150.5	-29.5	153.4	146.8	6.55	23.425		
380.0	380.0	384.0	384.0	3.4	3.4	-168.91	-150.5	-29.5	153.4	146.6	6.74	22.746		
400.0	400.0	404.0	404.0	3.4	3.4	-168.91	-150.5	-29.5	153.4	146.6	6.79	22.571		
475.0	475.0	479.0	479.0	3.5	3.5	-168.91	-150.5	-29.5	153.4	146.4	6.98	21.982		
500.0	500.0	504.0	504.0	3.5	3.5	-168.91	-150.5	-29.5	153.4	146.3	7.04	21.784		
570.0	570.0	574.0	574.0	3.6	3.6	-168.91	-150.5	-29.5	153.4	146.2	7.21	21.273		
600.0	600.0	604.0	604.0	3.6	3.6	-168.91	-150.5	-29.5	153.4	146.1	7.28	21.055		
665.0	665.0	669.0	669.0	3.7	3.7	-168.91	-150.5	-29.5	153.4	145.9	7.44	20.613		
700.0	700.0	704.0	704.0	3.8	3.8	-168.91	-150.5	-29.5	153.4	145.8	7.53	20.376		
760.0	760.0	764.0	764.0	3.8	3.8	-168.91	-150.5	-29.5	153.4	145.7	7.67	19.996		
800.0	800.0	804.0	804.0	3.9	3.9	-168.91	-150.5	-29.5	153.4	145.6	7.77	19.744		
855.0	855.0	859.0	859.0	4.0	4.0	-168.91	-150.5	-29.5	153.4	145.5	7.90	19.417		
900.0	900.0	904.0	904.0	4.0	4.0	-168.91	-150.5	-29.5	153.4	145.4	8.01	19.153		
950.0	950.0	954.0	954.0	4.1	4.1	-168.91	-150.5	-29.5	153.4	145.2	8.13	18.874		
1,000.0	1,000.0	1,004.0	1,004.0	4.1	4.1	-168.91	-150.5	-29.5	153.4	145.1	8.25	18.599		
1,045.0	1,045.0	1,049.0	1,049.0	4.2	4.2	-168.91	-150.5	-29.5	153.4	145.0	8.35	18.362		
1,100.0	1,100.0	1,104.0	1,104.0	4.2	4.3	-168.91	-150.5	-29.5	153.4	144.9	8.48	18.078		
1,140.0	1,140.0	1,144.0	1,144.0	4.3	4.3	-168.91	-150.5	-29.5	153.4	144.8	8.58	17.880		
1,200.0	1,200.0	1,204.0	1,204.0	4.4	4.4	-168.91	-150.5	-29.5	153.4	144.6	8.72	17.587		
1,235.0	1,235.0	1,239.0	1,239.0	4.4	4.4	-168.91	-150.5	-29.5	153.4	144.6	8.80	17.423		
1,300.0	1,300.0	1,304.0	1,304.0	4.5	4.5	-168.91	-150.5	-29.5	153.4	144.4	8.96	17.124		
1,330.0	1,330.0	1,334.0	1,334.0	4.5	4.5	-168.91	-150.5	-29.5	153.4	144.3	9.03	16.991		
1,400.0	1,400.0	1,404.0	1,404.0	4.6	4.6	-168.91	-150.5	-29.5	153.4	144.2	9.19	16.686		
1,425.0	1,425.0	1,429.0	1,429.0	4.6	4.6	-168.91	-150.5	-29.5	153.4	144.1	9.25	16.581		
1,500.0	1,500.0	1,504.1	1,504.1	4.7	4.7	-168.91	-150.5	-29.5	153.4	143.9	9.43	16.271		
1,502.7	1,502.7	1,506.8	1,506.8	4.7	4.7	141.92	-150.5	-29.5	153.4	143.9	9.43	16.259 CC		
1,520.0	1,520.0	1,524.4	1,524.4	4.7	4.7	141.97	-150.4	-29.6	153.4	143.9	9.48	16.183 ES		
1,600.0	1,600.0	1,605.7	1,605.6	4.9	4.9	143.00	-149.6	-31.2	154.2	144.5	9.69	15.905		
1,615.0	1,615.0	1,620.9	1,620.8	4.9	4.9	143.34	-149.3	-31.7	154.4	144.7	9.75	15.842		
1,700.0	1,699.8	1,706.7	1,706.6	5.1	5.1	146.05	-146.9	-36.0	157.0	146.9	10.07	15.587		
1,710.0	1,709.8	1,716.8	1,716.6	5.1	5.1	146.46	-146.5	-36.7	157.4	147.3	10.11	15.569		
1,800.0	1,799.5	1,806.8	1,806.2	5.4	5.3	150.78	-142.5	-43.8	162.6	152.2	10.46	15.549 SF		
1,805.0	1,804.4	1,811.8	1,811.2	5.4	5.4	151.05	-142.2	-44.3	163.0	152.5	10.48	15.556		
1,900.0	1,898.7	1,905.4	1,904.0	5.7	5.6	156.68	-136.5	-54.5	172.3	161.4	10.87	15.851		
1,995.0	1,992.5	1,997.3	1,994.8	6.0	5.9	162.82	-129.5	-67.1	186.2	174.9	11.28	16.496		
2,000.0	1,997.5	2,002.1	1,999.5	6.0	5.9	163.15	-129.1	-67.8	187.0	175.7	11.31	16.541		
2,090.0	2,085.8	2,087.1	2,083.0	6.3	6.2	168.96	-121.3	-81.8	205.5	193.7	11.74	17.505		
2,100.0	2,095.6	2,096.4	2,092.1	6.3	6.3	169.58	-120.3	-83.5	207.8	196.0	11.79	17.633		
2,185.0	2,178.5	2,174.5	2,168.3	6.6	6.5	174.70	-112.0	-98.5	230.6	218.4	12.23	18.860		
2,200.2	2,193.2	2,188.2	2,181.6	6.7	6.6	175.57	-110.4	-101.3	235.2	222.8	12.31	19.109		
2,280.0	2,270.7	2,261.5	2,252.7	6.9	6.8	179.85	-101.8	-116.8	260.3	247.6	12.69	20.509		
2,300.0	2,290.1	2,279.9	2,270.6	7.0	6.9	-179.20	-99.6	-120.7	266.8	254.0	12.79	20.859		
2,375.0	2,362.9	2,349.0	2,337.6	7.2	7.1	-175.98	-91.4	-135.3	291.7	278.5	13.18	22.139		
2,400.0	2,387.1	2,372.1	2,360.0	7.3	7.2	-175.02	-88.7	-140.1	300.2	286.9	13.31	22.559		
2,470.0	2,455.0	2,436.6	2,422.6	7.5	7.4	-172.60	-81.1	-153.8	324.3	310.6	13.69	23.692		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #709H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8448-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Rule Assigned:														
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
2,500.0	2,484.1	2,464.2	2,449.4	7.7	7.5	-171.67	-77.9	-159.6	334.7	320.9	13.85	24.165		
2,565.0	2,547.2	2,524.1	2,507.5	7.9	7.7	-169.83	-70.8	-172.3	357.7	343.5	14.22	25.149		
2,600.0	2,581.2	2,556.3	2,538.8	8.0	7.8	-168.93	-67.0	-179.1	370.2	355.7	14.42	25.662		
2,660.0	2,639.4	2,611.6	2,592.4	8.2	8.0	-167.52	-60.5	-190.8	391.7	376.9	14.78	26.504		
2,700.0	2,678.2	2,648.5	2,628.2	8.4	8.2	-166.66	-56.1	-198.5	406.2	391.2	15.02	27.046		
2,755.0	2,731.6	2,699.2	2,677.4	8.6	8.3	-165.57	-50.1	-209.3	426.3	410.9	15.36	27.759		
2,800.0	2,775.2	2,740.6	2,717.6	8.8	8.5	-164.76	-45.3	-218.0	442.7	427.1	15.63	28.319		
2,850.0	2,823.7	2,786.7	2,762.3	9.0	8.7	-163.91	-39.8	-227.7	461.1	445.2	15.95	28.916		
2,900.0	2,872.3	2,832.8	2,807.0	9.2	8.9	-163.14	-34.4	-237.5	479.6	463.4	16.26	29.488		
2,945.0	2,915.9	2,874.2	2,847.3	9.3	9.0	-162.49	-29.5	-246.2	496.3	479.8	16.55	29.981		
3,000.0	2,969.3	2,924.9	2,896.4	9.6	9.2	-161.75	-23.5	-256.9	516.8	499.9	16.91	30.560		
3,040.0	3,008.1	2,961.8	2,932.2	9.7	9.4	-161.25	-19.2	-264.7	531.7	514.6	17.17	30.962		
3,100.0	3,066.3	3,017.0	2,985.8	10.0	9.6	-160.54	-12.7	-276.4	554.2	536.6	17.57	31.542		
3,135.0	3,100.3	3,049.3	3,017.1	10.1	9.7	-160.16	-8.8	-283.2	567.4	549.6	17.80	31.865		
3,200.0	3,163.3	3,109.2	3,075.2	10.4	10.0	-159.49	-1.8	-295.9	591.8	573.6	18.24	32.443		
3,230.0	3,192.4	3,136.8	3,102.1	10.5	10.1	-159.20	1.5	-301.7	603.1	584.7	18.45	32.697		
3,300.0	3,260.4	3,201.3	3,164.6	10.8	10.4	-158.56	9.1	-315.3	629.6	610.6	18.92	33.270		
3,325.0	3,284.6	3,224.4	3,187.0	10.9	10.5	-158.35	11.8	-320.2	639.0	619.9	19.10	33.465		
3,400.0	3,357.4	3,293.5	3,254.0	11.2	10.8	-157.74	20.0	-334.8	667.4	647.8	19.61	34.029		
3,420.0	3,376.8	3,311.9	3,271.9	11.3	10.8	-157.58	22.1	-338.7	675.0	655.3	19.75	34.173		
3,500.0	3,454.4	3,385.6	3,343.4	11.7	11.2	-157.00	30.8	-354.3	705.4	685.1	20.31	34.728		
3,515.0	3,469.0	3,399.4	3,356.9	11.7	11.2	-156.90	32.4	-357.2	711.1	690.7	20.42	34.828		
3,600.0	3,551.4	3,477.8	3,432.9	12.1	11.6	-156.34	41.7	-373.7	743.5	722.5	21.02	35.372		
3,610.0	3,561.1	3,487.0	3,441.8	12.2	11.6	-156.27	42.8	-375.7	747.3	726.2	21.09	35.434		
3,700.0	3,648.5	3,569.9	3,522.3	12.6	12.0	-155.74	52.6	-393.2	781.6	759.9	21.73	35.967		
3,705.0	3,653.3	3,574.5	3,526.7	12.6	12.0	-155.71	53.1	-394.2	783.6	761.8	21.77	35.996		
3,800.0	3,745.5	3,662.0	3,611.7	13.0	12.4	-155.20	63.4	-412.7	819.9	797.4	22.45	36.517		
3,895.0	3,837.7	3,749.6	3,696.6	13.4	12.8	-154.73	73.7	-431.2	856.2	833.1	23.14	37.003		
3,900.0	3,842.5	3,754.2	3,701.1	13.5	12.8	-154.70	74.3	-432.1	858.1	835.0	23.18	37.027		
3,990.0	3,929.9	3,837.1	3,781.5	13.9	13.2	-154.29	84.1	-449.7	892.6	868.8	23.83	37.455		
4,000.0	3,939.6	3,846.3	3,790.5	13.9	13.2	-154.25	85.2	-451.6	896.5	872.5	23.90	37.501		
4,085.0	4,022.0	3,924.7	3,866.5	14.3	13.6	-153.90	94.4	-468.2	929.1	904.5	24.53	37.877		
4,100.0	4,036.6	3,938.5	3,879.9	14.4	13.6	-153.84	96.0	-471.1	934.8	910.2	24.64	37.941		
4,180.0	4,114.2	4,012.2	3,951.4	14.7	13.9	-153.53	104.7	-486.6	965.5	940.3	25.23	38.272		
4,200.0	4,133.6	4,030.6	3,969.3	14.8	14.0	-153.45	106.9	-490.5	973.2	947.9	25.38	38.351		
4,275.0	4,206.4	4,099.7	4,036.3	15.2	14.3	-153.19	115.0	-505.1	1,002.1	976.1	25.93	38.641		
4,300.0	4,230.6	4,122.8	4,058.7	15.3	14.5	-153.10	117.8	-510.0	1,011.7	985.6	26.12	38.734		
4,370.0	4,298.6	4,187.3	4,121.3	15.6	14.7	-152.87	125.4	-523.6	1,038.6	1,012.0	26.64	38.987		
4,400.0	4,327.7	4,214.9	4,148.1	15.7	14.9	-152.77	128.6	-529.5	1,050.1	1,023.3	26.86	39.092		
4,465.0	4,390.7	4,274.8	4,206.2	16.0	15.2	-152.57	135.7	-542.1	1,075.2	1,047.8	27.35	39.312		
4,500.0	4,424.7	4,307.0	4,237.5	16.2	15.3	-152.47	139.5	-548.9	1,088.6	1,061.0	27.61	39.427		
4,560.0	4,482.9	4,362.3	4,291.1	16.5	15.6	-152.29	146.0	-560.6	1,111.8	1,083.7	28.06	39.617		
4,600.0	4,521.7	4,399.2	4,326.9	16.7	15.7	-152.18	150.4	-568.4	1,127.2	1,098.8	28.36	39.741		
4,655.0	4,575.1	4,449.9	4,376.1	16.9	16.0	-152.03	156.3	-579.1	1,148.4	1,119.6	28.78	39.905		
4,700.0	4,618.8	4,491.3	4,416.3	17.1	16.2	-151.92	161.2	-587.9	1,165.7	1,136.6	29.12	40.035		
4,750.0	4,667.3	4,537.4	4,461.0	17.4	16.4	-151.79	166.7	-597.6	1,185.0	1,155.5	29.48	40.197		
4,755.7	4,672.8	4,542.6	4,466.1	17.4	16.4	-151.78	167.3	-598.7	1,187.2	1,157.6	29.52	40.216		
4,800.0	4,715.9	4,585.9	4,508.0	17.6	16.6	-151.83	172.4	-607.8	1,204.0	1,174.1	29.85	40.329		
4,845.0	4,759.8	4,646.8	4,567.3	17.8	16.9	-151.83	179.2	-620.0	1,220.1	1,189.7	30.35	40.206		
4,900.0	4,813.6	4,722.7	4,641.6	18.1	17.2	-151.84	186.8	-633.7	1,238.1	1,207.1	30.95	39.998		
4,940.0	4,852.9	4,778.9	4,696.8	18.3	17.5	-151.86	191.8	-642.6	1,249.9	1,218.6	31.38	39.831		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #709H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8448-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Reference	Offset	Highside	Offset Wellbore Centre	Distance	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)	
5,000.0	4,912.1	4,864.5	4,781.3	18.5	17.9	-151.90	198.4	-654.5	1,265.8	1,233.8	32.01	39.547
5,035.0	4,946.7	4,915.1	4,831.5	18.7	18.1	-151.93	201.8	-660.5	1,274.0	1,241.6	32.36	39.366
5,100.0	5,011.1	5,010.2	4,926.0	19.0	18.5	-152.01	206.9	-669.6	1,287.0	1,254.0	32.99	39.016
5,130.0	5,040.9	5,054.5	4,970.2	19.1	18.7	-152.05	208.7	-673.0	1,292.0	1,258.8	33.25	38.853
5,200.0	5,110.5	5,158.8	5,074.3	19.4	19.1	-152.18	211.8	-678.4	1,301.4	1,267.6	33.85	38.449
5,225.0	5,135.4	5,196.3	5,111.7	19.5	19.2	-152.23	212.4	-679.6	1,303.9	1,269.9	34.04	38.304
5,300.0	5,210.2	5,298.8	5,214.2	19.8	19.3	-152.38	213.0	-680.6	1,309.0	1,274.6	34.42	38.027
5,320.0	5,230.2	5,318.8	5,234.2	19.9	19.4	-152.41	213.0	-680.6	1,309.9	1,275.4	34.49	37.978
5,400.0	5,310.2	5,398.7	5,314.2	20.1	19.4	-152.49	213.0	-680.6	1,312.3	1,277.5	34.77	37.744
5,415.0	5,325.1	5,413.7	5,329.1	20.1	19.4	-152.49	213.0	-680.6	1,312.5	1,277.7	34.79	37.721
5,455.9	5,366.0	5,454.6	5,370.0	20.2	19.4	-103.33	213.0	-680.6	1,312.8	1,277.9	34.87	37.651
5,500.0	5,410.1	5,498.7	5,414.1	20.2	19.4	-103.33	213.0	-680.6	1,312.8	1,277.9	34.90	37.616
5,510.0	5,420.1	5,508.7	5,424.1	20.2	19.4	-103.33	213.0	-680.6	1,312.8	1,277.8	34.91	37.605
5,600.0	5,510.1	5,598.7	5,514.1	20.3	19.5	-103.33	213.0	-680.6	1,312.8	1,277.8	35.00	37.509
5,605.0	5,515.1	5,603.7	5,519.1	20.3	19.5	-103.33	213.0	-680.6	1,312.8	1,277.7	35.00	37.504
5,700.0	5,610.1	5,698.7	5,614.1	20.3	19.5	-103.33	213.0	-680.6	1,312.8	1,277.7	35.10	37.403
5,795.0	5,705.1	5,793.7	5,709.1	20.3	19.6	-103.33	213.0	-680.6	1,312.8	1,277.6	35.19	37.302
5,800.0	5,710.1	5,798.7	5,714.1	20.3	19.6	-103.33	213.0	-680.6	1,312.8	1,277.6	35.20	37.297
5,890.0	5,800.1	5,888.7	5,804.1	20.4	19.6	-103.33	213.0	-680.6	1,312.8	1,277.5	35.29	37.201
5,900.0	5,810.1	5,898.7	5,814.1	20.4	19.6	-103.33	213.0	-680.6	1,312.8	1,277.5	35.30	37.191
5,985.0	5,895.1	5,983.7	5,899.1	20.4	19.7	-103.33	213.0	-680.6	1,312.8	1,277.4	35.38	37.100
6,000.0	5,910.1	5,998.7	5,914.1	20.4	19.7	-103.33	213.0	-680.6	1,312.8	1,277.4	35.40	37.085
6,080.0	5,990.1	6,078.7	5,994.1	20.5	19.7	-103.33	213.0	-680.6	1,312.8	1,277.3	35.48	37.000
6,100.0	6,010.1	6,098.7	6,014.1	20.5	19.7	-103.33	213.0	-680.6	1,312.8	1,277.3	35.50	36.979
6,175.0	6,085.1	6,173.7	6,089.1	20.5	19.7	-103.33	213.0	-680.6	1,312.8	1,277.2	35.58	36.899
6,200.0	6,110.1	6,198.7	6,114.1	20.5	19.8	-103.33	213.0	-680.6	1,312.8	1,277.1	35.60	36.873
6,270.0	6,180.1	6,268.7	6,184.1	20.6	19.8	-103.33	213.0	-680.6	1,312.8	1,277.1	35.67	36.799
6,300.0	6,210.1	6,298.7	6,214.1	20.6	19.8	-103.33	213.0	-680.6	1,312.8	1,277.0	35.70	36.767
6,365.0	6,275.1	6,363.7	6,279.1	20.6	19.8	-103.33	213.0	-680.6	1,312.8	1,277.0	35.77	36.699
6,400.0	6,310.1	6,398.7	6,314.1	20.6	19.8	-103.33	213.0	-680.6	1,312.8	1,276.9	35.81	36.662
6,460.0	6,370.1	6,458.7	6,374.1	20.6	19.9	-103.33	213.0	-680.6	1,312.8	1,276.9	35.87	36.599
6,500.0	6,410.1	6,498.7	6,414.1	20.7	19.9	-103.33	213.0	-680.6	1,312.8	1,276.8	35.91	36.556
6,555.0	6,465.1	6,553.7	6,469.1	20.7	19.9	-103.33	213.0	-680.6	1,312.8	1,276.8	35.97	36.499
6,600.0	6,510.1	6,598.7	6,514.1	20.7	19.9	-103.33	213.0	-680.6	1,312.8	1,276.7	36.01	36.451
6,650.0	6,560.1	6,648.7	6,564.1	20.7	20.0	-103.33	213.0	-680.6	1,312.8	1,276.7	36.07	36.399
6,700.0	6,610.1	6,698.7	6,614.1	20.8	20.0	-103.33	213.0	-680.6	1,312.8	1,276.6	36.12	36.346
6,745.0	6,655.1	6,743.7	6,659.1	20.8	20.0	-103.33	213.0	-680.6	1,312.8	1,276.6	36.16	36.299
6,800.0	6,710.1	6,798.7	6,714.1	20.8	20.0	-103.33	213.0	-680.6	1,312.8	1,276.5	36.22	36.241
6,840.0	6,750.1	6,838.7	6,754.1	20.8	20.1	-103.33	213.0	-680.6	1,312.8	1,276.5	36.26	36.200
6,900.0	6,810.1	6,898.7	6,814.1	20.9	20.1	-103.33	213.0	-680.6	1,312.8	1,276.4	36.33	36.137
6,935.0	6,845.1	6,933.7	6,849.1	20.9	20.1	-103.33	213.0	-680.6	1,312.8	1,276.4	36.36	36.100
7,000.0	6,910.1	6,998.7	6,914.1	20.9	20.1	-103.33	213.0	-680.6	1,312.8	1,276.3	36.43	36.032
7,030.0	6,940.1	7,028.7	6,944.1	20.9	20.1	-103.33	213.0	-680.6	1,312.8	1,276.3	36.46	36.001
7,100.0	7,010.1	7,098.7	7,014.1	20.9	20.2	-103.33	213.0	-680.6	1,312.8	1,276.2	36.54	35.928
7,125.0	7,035.1	7,123.7	7,039.1	21.0	20.2	-103.33	213.0	-680.6	1,312.8	1,276.2	36.56	35.902
7,200.0	7,110.1	7,198.7	7,114.1	21.0	20.2	-103.33	213.0	-680.6	1,312.8	1,276.1	36.64	35.824
7,220.0	7,130.1	7,218.7	7,134.1	21.0	20.2	-103.33	213.0	-680.6	1,312.8	1,276.1	36.67	35.803
7,300.0	7,210.1	7,298.7	7,214.1	21.0	20.3	-103.33	213.0	-680.6	1,312.8	1,276.0	36.75	35.720
7,315.0	7,225.1	7,313.7	7,229.1	21.1	20.3	-103.33	213.0	-680.6	1,312.8	1,276.0	36.77	35.704
7,400.0	7,310.1	7,398.7	7,314.1	21.1	20.3	-103.33	213.0	-680.6	1,312.8	1,275.9	36.86	35.616
7,410.0	7,320.1	7,408.7	7,324.1	21.1	20.3	-103.33	213.0	-680.6	1,312.8	1,275.9	36.87	35.606

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #709H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8448-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Rule Assigned:													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
7,500.0	7,410.1	7,498.7	7,414.1	21.1	20.4	-103.33	213.0	-680.6	1,312.8	1,275.8	36.97	35.513	
7,505.0	7,415.1	7,503.7	7,419.1	21.1	20.4	-103.33	213.0	-680.6	1,312.8	1,275.8	36.97	35.508	
7,600.0	7,510.1	7,598.7	7,514.1	21.2	20.4	-103.33	213.0	-680.6	1,312.8	1,275.7	37.07	35.409	
7,695.0	7,605.1	7,693.7	7,609.1	21.2	20.5	-103.33	213.0	-680.6	1,312.8	1,275.6	37.18	35.312	
7,700.0	7,610.1	7,698.7	7,614.1	21.2	20.5	-103.33	213.0	-680.6	1,312.8	1,275.6	37.18	35.306	
7,790.0	7,700.1	7,788.7	7,704.1	21.3	20.5	-103.33	213.0	-680.6	1,312.8	1,275.5	37.28	35.214	
7,800.0	7,710.1	7,798.7	7,714.1	21.3	20.5	-103.33	213.0	-680.6	1,312.8	1,275.5	37.29	35.204	
7,885.0	7,795.1	7,883.7	7,799.1	21.3	20.6	-103.33	213.0	-680.6	1,312.8	1,275.4	37.38	35.116	
7,900.0	7,810.1	7,898.7	7,814.1	21.3	20.6	-103.33	213.0	-680.6	1,312.8	1,275.4	37.40	35.101	
7,980.0	7,890.1	7,978.7	7,894.1	21.4	20.6	-103.33	213.0	-680.6	1,312.8	1,275.3	37.49	35.019	
8,000.0	7,910.1	7,998.7	7,914.1	21.4	20.6	-103.33	213.0	-680.6	1,312.8	1,275.2	37.51	34.999	
8,075.0	7,985.1	8,073.7	7,989.1	21.4	20.7	-103.33	213.0	-680.6	1,312.8	1,275.2	37.59	34.922	
8,100.0	8,010.1	8,098.7	8,014.1	21.4	20.7	-103.33	213.0	-680.6	1,312.8	1,275.1	37.62	34.896	
8,170.0	8,080.1	8,168.7	8,084.1	21.5	20.7	-103.33	213.0	-680.6	1,312.8	1,275.1	37.70	34.825	
8,200.0	8,110.1	8,198.7	8,114.1	21.5	20.7	-103.33	213.0	-680.6	1,312.8	1,275.0	37.73	34.794	
8,265.0	8,175.1	8,263.7	8,179.1	21.5	20.7	-103.33	213.0	-680.6	1,312.8	1,275.0	37.80	34.728	
8,300.0	8,210.1	8,298.7	8,214.1	21.5	20.8	-103.33	213.0	-680.6	1,312.8	1,274.9	37.84	34.693	
8,360.0	8,270.1	8,358.7	8,274.1	21.6	20.8	-103.33	213.0	-680.6	1,312.8	1,274.8	37.91	34.632	
8,400.0	8,310.1	8,398.7	8,314.1	21.6	20.8	-103.33	213.0	-680.6	1,312.8	1,274.8	37.95	34.591	
8,407.5	8,317.7	8,406.2	8,321.7	21.6	20.8	-103.33	213.0	-680.6	1,312.8	1,274.8	37.96	34.586	
8,455.0	8,365.1	8,450.0	8,365.4	21.6	20.8	-103.33	213.0	-680.6	1,312.8	1,274.8	37.99	34.554	
8,500.0	8,410.1	8,480.6	8,396.0	21.6	20.8	-103.37	212.1	-680.6	1,313.1	1,275.1	38.02	34.540	
8,550.0	8,460.1	8,512.6	8,427.9	21.7	20.9	-103.48	209.3	-680.6	1,314.1	1,276.1	38.04	34.546	
8,600.0	8,510.1	8,550.0	8,464.9	21.7	20.9	-103.71	203.9	-680.7	1,315.9	1,277.8	38.06	34.572	
8,645.0	8,555.1	8,572.3	8,486.7	21.7	20.9	-103.90	199.5	-680.7	1,318.0	1,280.0	38.07	34.622	

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 #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #710H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8487-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	4.4	4.4	3.0	3.0	-158.49	-151.0	-59.5	162.3				
95.0	95.0	99.4	99.4	3.0	3.0	-158.49	-151.0	-59.5	162.3	156.3	6.04	26.879	
100.0	100.0	104.4	104.4	3.0	3.0	-158.49	-151.0	-59.5	162.3	156.3	6.04	26.851	
190.0	190.0	194.4	194.4	3.1	3.1	-158.49	-151.0	-59.5	162.3	156.0	6.27	25.905	
200.0	200.0	204.4	204.4	3.1	3.2	-158.49	-151.0	-59.5	162.3	156.0	6.30	25.774	
285.0	285.0	289.4	289.4	3.3	3.3	-158.49	-151.0	-59.5	162.3	155.8	6.51	24.950	
300.0	300.0	304.4	304.4	3.3	3.3	-158.49	-151.0	-59.5	162.3	155.8	6.55	24.796	
380.0	380.0	384.4	384.4	3.4	3.4	-158.49	-151.0	-59.5	162.3	155.6	6.74	24.082	
400.0	400.0	404.4	404.4	3.4	3.4	-158.49	-151.0	-59.5	162.3	155.5	6.79	23.899	
475.0	475.0	479.4	479.4	3.5	3.5	-158.49	-151.0	-59.5	162.3	155.3	6.97	23.281	
500.0	500.0	504.4	504.4	3.5	3.5	-158.49	-151.0	-59.5	162.3	155.3	7.03	23.073	
570.0	570.0	574.4	574.4	3.6	3.6	-158.49	-151.0	-59.5	162.3	155.1	7.20	22.539	
600.0	600.0	604.4	604.4	3.6	3.6	-158.49	-151.0	-59.5	162.3	155.0	7.27	22.309	
665.0	665.0	669.4	669.4	3.7	3.7	-158.49	-151.0	-59.5	162.3	154.9	7.43	21.847	
700.0	700.0	704.4	704.4	3.8	3.8	-158.49	-151.0	-59.5	162.3	154.8	7.51	21.600	
760.0	760.0	764.4	764.4	3.8	3.8	-158.49	-151.0	-59.5	162.3	154.6	7.65	21.202	
800.0	800.0	804.4	804.4	3.9	3.9	-158.49	-151.0	-59.5	162.3	154.5	7.75	20.939	
855.0	855.0	859.4	859.4	4.0	4.0	-158.49	-151.0	-59.5	162.3	154.4	7.88	20.598	
900.0	900.0	904.4	904.4	4.0	4.0	-158.49	-151.0	-59.5	162.3	154.3	7.99	20.322	
950.0	950.0	954.4	954.4	4.1	4.1	-158.49	-151.0	-59.5	162.3	154.2	8.10	20.031	
1,000.0	1,000.0	1,004.4	1,004.4	4.1	4.1	-158.49	-151.0	-59.5	162.3	154.1	8.22	19.743	
1,045.0	1,045.0	1,049.4	1,049.4	4.2	4.2	-158.49	-151.0	-59.5	162.3	154.0	8.32	19.497	
1,100.0	1,100.0	1,104.4	1,104.4	4.2	4.3	-158.49	-151.0	-59.5	162.3	153.8	8.45	19.200	
1,140.0	1,140.0	1,144.4	1,144.4	4.3	4.3	-158.49	-151.0	-59.5	162.3	153.8	8.55	18.993	
1,200.0	1,200.0	1,204.4	1,204.4	4.4	4.4	-158.49	-151.0	-59.5	162.3	153.6	8.68	18.688	
1,235.0	1,235.0	1,239.4	1,239.4	4.4	4.4	-158.49	-151.0	-59.5	162.3	153.5	8.76	18.518	
1,300.0	1,300.0	1,304.4	1,304.4	4.5	4.5	-158.49	-151.0	-59.5	162.3	153.4	8.91	18.206	
1,330.0	1,330.0	1,334.4	1,334.4	4.5	4.5	-158.49	-151.0	-59.5	162.3	153.3	8.98	18.067	
1,400.0	1,400.0	1,404.4	1,404.4	4.6	4.6	-158.49	-151.0	-59.5	162.3	153.2	9.14	17.749	
1,425.0	1,425.0	1,429.4	1,429.4	4.6	4.6	-158.49	-151.0	-59.5	162.3	153.1	9.20	17.640	
1,435.9	1,435.9	1,440.3	1,440.3	4.6	4.6	-158.49	-151.0	-59.5	162.3	153.1	9.23	17.592 CC	
1,500.0	1,500.0	1,504.4	1,504.4	4.7	4.7	-158.49	-151.0	-59.5	162.3	152.9	9.37	17.317 ES	
1,520.0	1,520.0	1,524.3	1,524.3	4.7	4.7	152.38	-151.0	-59.6	162.4	152.9	9.42	17.230	
1,600.0	1,600.0	1,603.9	1,603.9	4.9	4.8	153.26	-150.4	-61.3	164.0	154.3	9.64	17.009	
1,615.0	1,615.0	1,618.8	1,618.8	4.9	4.9	153.54	-150.2	-61.8	164.5	154.8	9.70	16.966	
1,700.0	1,699.8	1,702.9	1,702.7	5.1	5.0	155.79	-148.8	-66.3	169.3	159.2	10.03	16.879 SF	
1,710.0	1,709.8	1,712.7	1,712.5	5.1	5.0	156.12	-148.6	-67.0	170.0	159.9	10.07	16.887	
1,800.0	1,799.5	1,800.8	1,800.2	5.4	5.3	159.59	-146.2	-74.5	178.7	168.3	10.43	17.133	
1,805.0	1,804.4	1,805.6	1,805.1	5.4	5.3	159.81	-146.0	-75.0	179.3	168.9	10.45	17.155	
1,900.0	1,898.7	1,897.1	1,895.8	5.7	5.6	164.17	-142.6	-85.7	193.2	182.3	10.87	17.773	
1,995.0	1,992.5	1,986.6	1,984.3	6.0	5.8	168.79	-138.4	-98.8	212.1	200.8	11.32	18.737	
2,000.0	1,997.5	1,991.3	1,988.9	6.0	5.9	169.03	-138.1	-99.5	213.2	201.9	11.34	18.798	
2,090.0	2,085.8	2,073.9	2,070.1	6.3	6.1	173.30	-133.5	-114.0	236.4	224.6	11.80	20.032	
2,100.0	2,095.6	2,083.0	2,078.9	6.3	6.2	173.76	-132.9	-115.8	239.3	227.5	11.86	20.187	
2,185.0	2,178.5	2,158.7	2,152.9	6.6	6.4	177.48	-127.9	-131.3	266.4	254.1	12.32	21.628	
2,200.2	2,193.2	2,172.0	2,165.8	6.7	6.5	178.11	-127.0	-134.2	271.7	259.3	12.40	21.910	
2,280.0	2,270.7	2,243.3	2,235.1	6.9	6.7	-178.72	-121.8	-150.5	300.7	287.9	12.81	23.480	
2,300.0	2,290.1	2,261.6	2,252.8	7.0	6.8	-177.99	-120.4	-154.7	308.1	295.2	12.91	23.864	
2,375.0	2,362.9	2,329.9	2,319.1	7.2	7.0	-175.55	-115.4	-170.4	336.2	322.9	13.31	25.251	
2,400.0	2,387.1	2,352.7	2,341.2	7.3	7.1	-174.83	-113.7	-175.7	345.6	332.2	13.45	25.699	
2,470.0	2,455.0	2,416.4	2,403.1	7.5	7.3	-172.98	-109.0	-190.3	372.4	358.6	13.85	26.895	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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 <th colspan="5">Rule Assigned:</th> <th>Offset Well Error:</th> <td>3.0 usft</td>						Rule Assigned:					Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance				Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
2,500.0	2,484.1	2,443.8	2,429.6	7.7	7.4	-172.27	-106.9	-196.6	384.0	369.9	14.02	27.388		
2,565.0	2,547.2	2,503.0	2,487.0	7.9	7.6	-170.86	-102.5	-210.3	409.2	394.8	14.40	28.407		
2,600.0	2,581.2	2,534.9	2,518.0	8.0	7.7	-170.17	-100.2	-217.6	422.8	408.2	14.61	28.932		
2,660.0	2,639.4	2,589.5	2,571.0	8.2	7.9	-169.08	-96.1	-230.2	446.4	431.4	14.98	29.790		
2,700.0	2,678.2	2,626.0	2,606.4	8.4	8.0	-168.42	-93.4	-238.6	462.1	446.9	15.23	30.338		
2,755.0	2,731.6	2,676.1	2,655.0	8.6	8.2	-167.57	-89.7	-250.1	483.9	468.3	15.58	31.053		
2,800.0	2,775.2	2,717.1	2,694.8	8.8	8.4	-166.93	-86.7	-259.6	501.7	485.8	15.87	31.614		
2,850.0	2,823.7	2,762.6	2,739.0	9.0	8.6	-166.28	-83.3	-270.1	521.6	505.4	16.20	32.204		
2,900.0	2,872.3	2,808.2	2,783.2	9.2	8.7	-165.67	-80.0	-280.6	541.5	525.0	16.52	32.772		
2,945.0	2,915.9	2,849.2	2,822.9	9.3	8.9	-165.16	-76.9	-290.0	559.5	542.7	16.83	33.254		
3,000.0	2,969.3	2,899.3	2,871.6	9.6	9.1	-164.57	-73.2	-301.5	581.6	564.4	17.20	33.822		
3,040.0	3,008.1	2,935.7	2,906.9	9.7	9.3	-164.18	-70.5	-309.9	597.6	580.2	17.47	34.212		
3,100.0	3,066.3	2,990.4	2,960.0	10.0	9.5	-163.62	-66.5	-322.5	621.8	603.9	17.88	34.775		
3,135.0	3,100.3	3,022.2	2,990.9	10.1	9.6	-163.31	-64.1	-329.8	635.9	617.7	18.12	35.087		
3,200.0	3,163.3	3,081.5	3,048.4	10.4	9.9	-162.78	-59.7	-343.5	662.1	643.5	18.58	35.643		
3,230.0	3,192.4	3,108.8	3,074.9	10.5	10.0	-162.55	-57.7	-349.8	674.2	655.4	18.79	35.887		
3,300.0	3,260.4	3,172.6	3,136.7	10.8	10.2	-162.03	-53.0	-364.5	702.5	683.2	19.28	36.432		
3,325.0	3,284.6	3,195.3	3,158.8	10.9	10.3	-161.86	-51.3	-369.7	712.6	693.2	19.46	36.619		
3,400.0	3,357.4	3,263.7	3,225.1	11.2	10.6	-161.37	-46.3	-385.4	743.0	723.0	20.00	37.153		
3,420.0	3,376.8	3,281.9	3,242.8	11.3	10.7	-161.25	-44.9	-389.6	751.1	731.0	20.14	37.289		
3,500.0	3,454.4	3,354.8	3,313.5	11.7	11.0	-160.77	-39.5	-406.4	783.6	762.9	20.72	37.812		
3,515.0	3,469.0	3,368.4	3,326.8	11.7	11.1	-160.69	-38.5	-409.6	789.7	768.9	20.83	37.906		
3,600.0	3,551.4	3,445.9	3,401.9	12.1	11.4	-160.24	-32.8	-427.4	824.3	802.8	21.46	38.416		
3,610.0	3,561.1	3,455.0	3,410.8	12.2	11.4	-160.19	-32.1	-429.5	828.3	806.8	21.53	38.473		
3,700.0	3,648.5	3,537.0	3,490.3	12.6	11.8	-159.75	-26.0	-448.4	865.0	842.8	22.20	38.970		
3,705.0	3,653.3	3,541.5	3,494.8	12.6	11.8	-159.73	-25.7	-449.4	867.0	844.8	22.23	38.996		
3,800.0	3,745.5	3,628.1	3,578.7	13.0	12.2	-159.31	-19.3	-469.3	905.7	882.8	22.94	39.480		
3,895.0	3,837.7	3,714.6	3,662.7	13.4	12.6	-158.92	-12.9	-489.3	944.5	920.9	23.66	39.927		
3,900.0	3,842.5	3,719.2	3,667.1	13.5	12.6	-158.90	-12.6	-490.3	946.5	922.9	23.69	39.950		
3,990.0	3,929.9	3,801.2	3,746.7	13.9	13.0	-158.57	-6.5	-509.2	983.3	958.9	24.37	40.342		
4,000.0	3,939.6	3,810.3	3,755.5	13.9	13.0	-158.53	-5.8	-511.3	987.4	962.9	24.45	40.384		
4,085.0	4,022.0	3,887.7	3,830.7	14.3	13.4	-158.24	-0.1	-529.1	1,022.1	997.0	25.10	40.727		
4,100.0	4,036.6	3,901.4	3,843.9	14.4	13.4	-158.19	0.9	-532.3	1,028.3	1,003.0	25.21	40.786		
4,180.0	4,114.2	3,974.3	3,914.6	14.7	13.8	-157.93	6.3	-549.1	1,061.0	1,035.1	25.82	41.086		
4,200.0	4,133.6	3,992.5	3,932.3	14.8	13.8	-157.87	7.7	-553.3	1,069.1	1,043.2	25.98	41.159		
4,275.0	4,206.4	4,060.8	3,998.6	15.2	14.2	-157.65	12.7	-569.0	1,099.8	1,073.3	26.55	41.420		
4,300.0	4,230.6	4,083.6	4,020.7	15.3	14.3	-157.58	14.4	-574.2	1,110.1	1,083.3	26.75	41.505		
4,370.0	4,298.6	4,147.4	4,082.6	15.6	14.6	-157.39	19.1	-588.9	1,138.7	1,111.4	27.29	41.732		
4,400.0	4,327.7	4,174.7	4,109.1	15.7	14.7	-157.31	21.1	-595.2	1,151.0	1,123.5	27.52	41.827		
4,465.0	4,390.7	4,233.9	4,166.6	16.0	14.9	-157.14	25.5	-608.8	1,177.6	1,149.6	28.02	42.024		
4,500.0	4,424.7	4,265.8	4,197.5	16.2	15.1	-157.05	27.9	-616.2	1,192.0	1,163.7	28.29	42.127		
4,560.0	4,482.9	4,320.4	4,250.6	16.5	15.3	-156.91	31.9	-628.8	1,216.6	1,187.8	28.76	42.297		
4,600.0	4,521.7	4,356.9	4,285.9	16.7	15.5	-156.82	34.6	-637.2	1,233.0	1,203.9	29.07	42.408		
4,655.0	4,575.1	4,407.0	4,334.5	16.9	15.7	-156.69	38.3	-648.7	1,255.5	1,226.0	29.50	42.554		
4,700.0	4,618.8	4,448.0	4,374.3	17.1	15.9	-156.59	41.4	-658.1	1,274.0	1,244.1	29.86	42.670		
4,750.0	4,667.3	4,493.5	4,418.5	17.4	16.1	-156.49	44.7	-668.6	1,294.5	1,264.2	30.24	42.809		
4,755.7	4,672.8	4,498.7	4,423.5	17.4	16.2	-156.48	45.1	-669.8	1,296.8	1,266.5	30.28	42.825		
4,800.0	4,715.9	4,539.2	4,462.8	17.6	16.4	-156.54	48.1	-679.1	1,314.7	1,284.1	30.62	42.937		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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		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		
4,750.0	4,667.3	5,034.5	4,943.4	17.4	18.7	47.24	389.1	1,813.2	1,318.9	1,287.0	31.88	41.367		
4,755.7	4,672.8	5,039.7	4,948.4	17.4	18.7	47.27	389.6	1,812.1	1,316.6	1,284.7	31.92	41.245		
4,800.0	4,715.9	5,080.4	4,987.9	17.6	18.9	47.18	393.4	1,803.0	1,299.5	1,267.3	32.24	40.308		
4,845.0	4,759.8	5,121.9	5,028.2	17.8	19.1	47.09	397.2	1,793.7	1,282.5	1,250.0	32.58	39.370		
4,900.0	4,813.6	5,172.9	5,077.7	18.1	19.3	46.96	401.9	1,782.3	1,262.4	1,229.4	32.99	38.265		
4,940.0	4,852.9	5,210.3	5,113.9	18.3	19.5	46.85	405.4	1,774.0	1,248.3	1,215.0	33.29	37.496		
5,000.0	4,912.1	5,266.5	5,168.5	18.5	19.8	46.66	410.6	1,761.4	1,227.6	1,193.9	33.74	36.385		
5,035.0	4,946.7	5,299.5	5,200.5	18.7	19.9	46.55	413.7	1,754.0	1,216.0	1,182.0	34.00	35.765		
5,100.0	5,011.1	5,361.1	5,260.2	19.0	20.2	46.30	419.3	1,740.2	1,195.1	1,160.6	34.48	34.657		
5,130.0	5,040.9	5,389.6	5,287.9	19.1	20.4	46.18	422.0	1,733.9	1,185.8	1,151.1	34.70	34.169		
5,200.0	5,110.5	5,456.4	5,352.7	19.4	20.7	45.85	428.2	1,718.9	1,164.9	1,129.7	35.22	33.074		
5,225.0	5,135.4	5,480.3	5,375.9	19.5	20.8	45.73	430.4	1,713.6	1,157.7	1,122.3	35.40	32.702		
5,300.0	5,210.2	5,552.4	5,445.9	19.8	21.1	45.32	437.0	1,697.5	1,137.0	1,101.0	35.95	31.630		
5,320.0	5,230.2	5,571.6	5,464.6	19.9	21.2	45.20	438.8	1,693.2	1,131.7	1,095.6	36.09	31.361		
5,400.0	5,310.2	5,648.9	5,539.6	20.1	21.6	44.69	446.0	1,675.9	1,111.4	1,074.8	36.65	30.327		
5,415.0	5,325.1	5,663.4	5,553.6	20.1	21.7	44.59	447.3	1,672.7	1,107.8	1,071.1	36.74	30.157		
5,455.9	5,366.0	5,703.1	5,592.1	20.2	21.9	93.47	451.0	1,663.8	1,098.3	1,061.3	36.97	29.704		
5,500.0	5,410.1	5,745.9	5,633.6	20.2	22.1	93.28	454.9	1,654.2	1,088.1	1,050.9	37.20	29.252		
5,510.0	5,420.1	5,755.6	5,643.1	20.2	22.1	93.24	455.8	1,652.1	1,085.8	1,048.6	37.25	29.148		
5,600.0	5,510.1	5,842.9	5,727.8	20.3	22.5	92.86	463.9	1,632.5	1,065.2	1,027.5	37.74	28.227		
5,605.0	5,515.1	5,847.8	5,732.5	20.3	22.6	92.84	464.3	1,631.4	1,064.1	1,026.3	37.76	28.177		
5,700.0	5,610.1	5,940.0	5,821.9	20.3	23.0	92.41	472.9	1,610.8	1,042.4	1,004.1	38.28	27.234		
5,795.0	5,705.1	6,032.1	5,911.4	20.3	23.4	91.97	481.4	1,590.2	1,020.8	982.0	38.79	26.318		
5,800.0	5,710.1	6,037.0	5,916.1	20.3	23.5	91.95	481.8	1,589.2	1,019.6	980.8	38.81	26.270		
5,890.0	5,800.1	6,124.3	6,000.8	20.4	23.9	91.51	489.9	1,569.6	999.2	959.9	39.29	25.428		
5,900.0	5,810.1	6,134.0	6,010.2	20.4	23.9	91.46	490.8	1,567.5	996.9	957.6	39.35	25.336		
5,985.0	5,895.1	6,216.5	6,090.3	20.4	24.3	91.03	498.4	1,549.0	977.7	937.9	39.80	24.567		
6,000.0	5,910.1	6,218.3	6,092.0	20.4	24.3	91.02	498.6	1,548.6	974.4	934.5	39.88	24.431		
6,080.0	5,990.1	6,287.2	6,159.1	20.5	24.7	90.67	504.6	1,534.0	957.3	917.0	40.31	23.749		
6,100.0	6,010.1	6,300.0	6,171.6	20.5	24.7	90.61	505.7	1,531.4	953.2	912.8	40.41	23.588		
6,175.0	6,085.1	6,358.3	6,228.6	20.5	25.0	90.33	510.3	1,520.4	939.0	898.2	40.80	23.015		
6,200.0	6,110.1	6,377.1	6,247.1	20.5	25.1	90.25	511.6	1,517.1	934.6	893.7	40.93	22.836		
6,270.0	6,180.1	6,430.1	6,299.2	20.6	25.3	90.02	515.2	1,508.3	923.0	881.7	41.27	22.366		
6,300.0	6,210.1	6,452.9	6,321.7	20.6	25.4	89.93	516.7	1,504.8	918.4	877.0	41.41	22.179		
6,365.0	6,275.1	6,500.0	6,368.3	20.6	25.7	89.76	519.5	1,498.2	909.2	867.5	41.70	21.802		
6,400.0	6,310.1	6,529.3	6,397.3	20.6	25.8	89.65	521.0	1,494.4	904.7	862.8	41.86	21.613		
6,460.0	6,370.1	6,575.4	6,443.0	20.6	26.0	89.51	523.3	1,488.9	897.6	855.5	42.11	21.316		
6,500.0	6,410.1	6,600.0	6,467.4	20.7	26.1	89.44	524.4	1,486.3	893.4	851.2	42.26	21.144		
6,555.0	6,465.1	6,648.8	6,516.0	20.7	26.3	89.31	526.3	1,481.7	888.3	845.8	42.48	20.912		
6,600.0	6,510.1	6,683.7	6,550.8	20.7	26.4	89.23	527.4	1,478.9	884.6	842.0	42.64	20.746		
6,650.0	6,560.1	6,722.6	6,589.5	20.7	26.6	89.16	528.5	1,476.2	881.2	838.4	42.81	20.584		
6,700.0	6,610.1	6,761.5	6,628.3	20.8	26.7	89.09	529.5	1,474.0	878.4	835.4	42.97	20.443		
6,745.0	6,655.1	6,800.0	6,666.8	20.8	26.9	89.05	530.2	1,472.3	876.4	833.3	43.12	20.326		
6,800.0	6,710.1	6,839.5	6,706.3	20.8	27.0	89.01	530.7	1,471.0	874.6	831.4	43.24	20.229		
6,840.0	6,750.1	6,870.8	6,737.5	20.8	27.1	88.99	530.9	1,470.4	873.8	830.5	43.33	20.168		
6,900.0	6,810.1	6,918.2	6,785.0	20.9	27.2	88.98	531.1	1,470.0	873.3	829.9	43.43	20.111		
6,911.9	6,822.1	6,929.4	6,796.2	20.9	27.2	88.98	531.1	1,470.0	873.3	829.9	43.43	20.107		
6,935.0	6,845.1	6,952.5	6,819.2	20.9	27.2	88.98	531.1	1,470.0	873.3	829.9	43.45	20.099		
7,000.0	6,910.1	7,017.5	6,884.2	20.9	27.2	88.98	531.1	1,470.0	873.3	829.8	43.51	20.074		
7,030.0	6,940.1	7,047.5	6,914.2	20.9	27.2	88.98	531.1	1,470.0	873.3	829.8	43.53	20.062		
7,100.0	7,010.1	7,117.5	6,984.2	20.9	27.2	88.98	531.1	1,470.0	873.3	829.7	43.59	20.034		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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
Rule Assigned:													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
7,125.0	7,035.1	7,142.5	7,009.2	21.0	27.2	88.98	531.1	1,470.0	873.3	829.7	43.61	20.024	
7,200.0	7,110.1	7,217.5	7,084.2	21.0	27.3	88.98	531.1	1,470.0	873.3	829.7	43.68	19.994	
7,220.0	7,130.1	7,237.5	7,104.2	21.0	27.3	88.98	531.1	1,470.0	873.3	829.6	43.70	19.986	
7,300.0	7,210.1	7,317.5	7,184.2	21.0	27.3	88.98	531.1	1,470.0	873.3	829.6	43.77	19.954	
7,315.0	7,225.1	7,332.5	7,199.2	21.1	27.3	88.98	531.1	1,470.0	873.3	829.6	43.78	19.948	
7,400.0	7,310.1	7,417.5	7,284.2	21.1	27.3	88.98	531.1	1,470.0	873.3	829.5	43.86	19.914	
7,410.0	7,320.1	7,427.5	7,294.2	21.1	27.3	88.98	531.1	1,470.0	873.3	829.5	43.86	19.910	
7,500.0	7,410.1	7,517.5	7,384.2	21.1	27.4	88.98	531.1	1,470.0	873.3	829.4	43.94	19.874	
7,505.0	7,415.1	7,522.5	7,389.2	21.1	27.4	88.98	531.1	1,470.0	873.3	829.4	43.95	19.872	
7,600.0	7,510.1	7,617.5	7,484.2	21.2	27.4	88.98	531.1	1,470.0	873.3	829.3	44.03	19.833	
7,695.0	7,605.1	7,712.5	7,579.2	21.2	27.4	88.98	531.1	1,470.0	873.3	829.2	44.12	19.795	
7,700.0	7,610.1	7,717.5	7,584.2	21.2	27.4	88.98	531.1	1,470.0	873.3	829.2	44.12	19.793	
7,790.0	7,700.1	7,807.5	7,674.2	21.3	27.5	88.98	531.1	1,470.0	873.3	829.1	44.20	19.757	
7,800.0	7,710.1	7,817.5	7,684.2	21.3	27.5	88.98	531.1	1,470.0	873.3	829.1	44.21	19.753	
7,885.0	7,795.1	7,902.5	7,769.2	21.3	27.5	88.98	531.1	1,470.0	873.3	829.0	44.29	19.719	
7,900.0	7,810.1	7,917.5	7,784.2	21.3	27.5	88.98	531.1	1,470.0	873.3	829.0	44.30	19.713	
7,980.0	7,890.1	7,997.5	7,864.2	21.4	27.5	88.98	531.1	1,470.0	873.3	829.0	44.38	19.680	
8,000.0	7,910.1	8,017.5	7,884.2	21.4	27.5	88.98	531.1	1,470.0	873.3	828.9	44.39	19.672	
8,075.0	7,985.1	8,092.5	7,959.2	21.4	27.6	88.98	531.1	1,470.0	873.3	828.9	44.46	19.642	
8,100.0	8,010.1	8,117.5	7,984.2	21.4	27.6	88.98	531.1	1,470.0	873.3	828.9	44.49	19.632	
8,170.0	8,080.1	8,187.5	8,054.2	21.5	27.6	88.98	531.1	1,470.0	873.3	828.8	44.55	19.604	
8,200.0	8,110.1	8,217.5	8,084.2	21.5	27.6	88.98	531.1	1,470.0	873.3	828.8	44.58	19.592	
8,265.0	8,175.1	8,282.5	8,149.2	21.5	27.6	88.98	531.1	1,470.0	873.3	828.7	44.64	19.565	
8,300.0	8,210.1	8,317.5	8,184.2	21.5	27.6	88.98	531.1	1,470.0	873.3	828.7	44.67	19.551	
8,360.0	8,270.1	8,377.5	8,244.2	21.6	27.7	88.98	531.1	1,470.0	873.3	828.6	44.72	19.527	
8,400.0	8,310.1	8,417.5	8,284.2	21.6	27.7	88.98	531.1	1,470.0	873.3	828.6	44.76	19.511	
8,455.0	8,365.1	8,472.5	8,339.2	21.6	27.7	88.98	531.1	1,470.0	873.3	828.5	44.81	19.489	
8,500.0	8,410.1	8,517.5	8,384.2	21.6	27.7	88.98	531.1	1,470.0	873.3	828.5	44.85	19.471	
8,550.0	8,460.1	8,567.5	8,434.2	21.7	27.7	88.98	531.1	1,470.0	873.3	828.4	44.90	19.450	
8,600.0	8,510.1	8,617.5	8,484.2	21.7	27.7	88.98	531.1	1,470.0	873.3	828.4	44.95	19.430	
8,645.0	8,555.1	8,662.5	8,529.2	21.7	27.8	88.98	531.1	1,470.0	873.3	828.3	44.99	19.412	
8,700.0	8,610.1	8,717.5	8,584.2	21.7	27.8	88.98	531.1	1,470.0	873.3	828.3	45.04	19.390	
8,740.0	8,650.1	8,757.5	8,624.2	21.8	27.8	88.98	531.1	1,470.0	873.3	828.3	45.08	19.374	
8,800.0	8,710.1	8,817.5	8,684.2	21.8	27.8	88.98	531.1	1,470.0	873.3	828.2	45.13	19.350	
8,835.0	8,745.1	8,852.5	8,719.2	21.8	27.8	88.98	531.1	1,470.0	873.3	828.2	45.17	19.336	
8,900.0	8,810.1	8,917.5	8,784.2	21.8	27.8	88.98	531.1	1,470.0	873.3	828.1	45.23	19.309	
8,930.0	8,840.1	8,947.5	8,814.2	21.9	27.9	88.98	531.1	1,470.0	873.3	828.1	45.26	19.297	
9,000.0	8,910.1	9,017.5	8,884.2	21.9	27.9	88.98	531.1	1,470.0	873.3	828.0	45.32	19.269	
9,025.0	8,935.1	9,042.5	8,909.2	21.9	27.9	88.98	531.1	1,470.0	873.3	828.0	45.35	19.259	
9,100.0	9,010.1	9,117.5	8,984.2	21.9	27.9	88.98	531.1	1,470.0	873.3	827.9	45.42	19.229	
9,120.0	9,030.1	9,137.5	9,004.2	22.0	27.9	88.98	531.1	1,470.0	873.3	827.9	45.44	19.221	
9,200.0	9,110.1	9,217.5	9,084.2	22.0	28.0	88.98	531.1	1,470.0	873.3	827.8	45.51	19.188	
9,215.0	9,125.1	9,232.5	9,099.2	22.0	28.0	88.98	531.1	1,470.0	873.3	827.8	45.53	19.183	
9,291.9	9,202.0	9,309.4	9,176.1	22.0	28.0	88.98	531.1	1,470.0	873.3	827.7	45.60	19.154 CC	
9,300.0	9,210.1	9,317.5	9,184.2	22.0	28.0	-91.53	531.1	1,470.0	873.3	827.7	45.60	19.153	
9,310.0	9,220.1	9,327.5	9,194.3	22.0	28.0	-91.54	531.1	1,470.0	873.3	827.7	45.60	19.152	
9,350.0	9,260.0	9,369.2	9,236.0	22.1	28.0	-91.62	529.5	1,470.0	873.4	827.8	45.61	19.148	
9,400.0	9,309.5	9,421.5	9,287.8	22.1	28.0	-91.70	523.2	1,469.9	873.4	827.8	45.62	19.145	
9,405.0	9,314.4	9,426.7	9,293.0	22.1	28.0	-91.70	522.3	1,469.9	873.4	827.8	45.62	19.145	
9,450.0	9,358.1	9,473.8	9,339.0	22.1	28.0	-91.76	512.2	1,469.8	873.5	827.8	45.63	19.144	
9,500.0	9,405.6	9,526.3	9,389.0	22.2	28.0	-91.82	496.5	1,469.7	873.5	827.9	45.63	19.145	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	Reference	Offset	Highside	Offset Wellbore Centre	Distance	Rule Assigned:	Minimum	Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor
9,550.0	9,451.5	9,578.8	9,437.5	22.2	28.1	-91.85	476.4	1,469.5	873.5	827.9	45.62	19.147
9,595.0	9,491.2	9,626.1	9,479.4	22.2	28.1	-91.87	454.4	1,469.4	873.5	827.9	45.62	19.150
9,600.0	9,495.5	9,631.3	9,483.9	22.2	28.1	-91.88	451.8	1,469.3	873.5	827.9	45.61	19.151
9,650.0	9,537.3	9,683.9	9,527.9	22.3	28.1	-91.88	423.0	1,469.1	873.6	828.0	45.61	19.154
9,690.0	9,568.9	9,726.0	9,561.1	22.3	28.1	-91.88	397.2	1,468.9	873.6	828.0	45.60	19.157
9,700.0	9,576.5	9,736.5	9,569.1	22.3	28.1	-91.88	390.4	1,468.8	873.6	828.0	45.60	19.158
9,750.0	9,612.9	9,789.1	9,607.2	22.4	28.1	-91.86	354.1	1,468.5	873.6	828.0	45.59	19.160
9,785.0	9,636.5	9,825.9	9,631.7	22.4	28.1	-91.83	326.7	1,468.3	873.6	828.0	45.59	19.160
9,800.0	9,646.1	9,841.7	9,641.7	22.4	28.2	-91.82	314.5	1,468.2	873.6	828.0	45.59	19.160
9,850.0	9,676.0	9,894.1	9,672.4	22.4	28.2	-91.77	272.0	1,467.9	873.6	828.0	45.60	19.158
9,880.0	9,692.2	9,925.6	9,688.9	22.5	28.2	-91.73	245.2	1,467.6	873.6	828.0	45.61	19.154
9,900.0	9,702.2	9,946.5	9,699.0	22.5	28.2	-91.70	226.9	1,467.5	873.6	828.0	45.61	19.152
9,950.0	9,724.7	9,998.8	9,721.4	22.5	28.3	-91.62	179.7	1,467.1	873.6	827.9	45.64	19.142
9,975.0	9,734.4	10,024.9	9,731.0	22.5	28.3	-91.58	155.4	1,466.9	873.6	827.9	45.65	19.135
10,000.0	9,743.2	10,050.9	9,739.4	22.6	28.3	-91.53	130.7	1,466.7	873.6	827.9	45.67	19.128
10,050.0	9,757.5	10,103.0	9,752.8	22.6	28.3	-91.43	80.5	1,466.3	873.6	827.8	45.72	19.108
10,070.0	9,762.1	10,123.7	9,756.8	22.6	28.4	-91.38	60.2	1,466.1	873.6	827.8	45.74	19.099
10,100.0	9,767.6	10,154.8	9,761.6	22.7	28.4	-91.31	29.4	1,465.9	873.6	827.8	45.77	19.084
10,150.0	9,773.5	10,206.5	9,765.7	22.7	28.4	-91.19	-22.1	1,465.4	873.5	827.7	45.84	19.055
10,165.0	9,774.4	10,222.0	9,766.0	22.7	28.5	-91.15	-37.5	1,465.3	873.5	827.7	45.87	19.045
10,174.3	9,774.7	10,231.4	9,766.0	22.7	28.5	-91.13	-47.0	1,465.2	873.5	827.7	45.88	19.038
10,191.6	9,775.0	10,248.7	9,766.0	22.7	28.5	-91.11	-64.2	1,465.1	873.5	827.6	45.91	19.026
10,200.0	9,775.0	10,257.1	9,766.0	22.7	28.5	-91.11	-72.7	1,465.0	873.5	827.6	45.93	19.020
10,260.0	9,775.0	10,317.1	9,766.1	22.8	28.6	-91.11	-132.6	1,464.5	873.6	827.5	46.06	18.965
10,300.0	9,775.1	10,357.1	9,766.1	22.8	28.6	-91.11	-172.6	1,464.2	873.6	827.4	46.16	18.926
10,355.0	9,775.1	10,412.1	9,766.1	22.9	28.7	-91.11	-227.6	1,463.7	873.6	827.3	46.31	18.865
10,400.0	9,775.1	10,457.1	9,766.2	22.9	28.8	-91.11	-272.6	1,463.4	873.7	827.2	46.44	18.813
10,450.0	9,775.1	10,507.1	9,766.2	23.0	28.8	-91.11	-322.6	1,462.9	873.7	827.1	46.60	18.748
10,500.0	9,775.2	10,557.1	9,766.2	23.1	28.9	-91.11	-372.6	1,462.5	873.7	827.0	46.77	18.681
10,545.0	9,775.2	10,602.1	9,766.3	23.1	29.0	-91.11	-417.6	1,462.2	873.8	826.8	46.94	18.615
10,600.0	9,775.2	10,657.1	9,766.3	23.2	29.1	-91.11	-472.6	1,461.7	873.8	826.6	47.15	18.532
10,640.0	9,775.2	10,697.1	9,766.3	23.3	29.2	-91.12	-512.6	1,461.4	873.8	826.5	47.32	18.467
10,700.0	9,775.3	10,757.1	9,766.4	23.4	29.3	-91.12	-572.6	1,460.9	873.8	826.3	47.58	18.367
10,735.0	9,775.3	10,792.1	9,766.4	23.4	29.4	-91.12	-607.6	1,460.6	873.9	826.1	47.74	18.305
10,800.0	9,775.3	10,857.1	9,766.5	23.5	29.5	-91.12	-672.6	1,460.0	873.9	825.9	48.05	18.187
10,830.0	9,775.3	10,887.1	9,766.5	23.6	29.6	-91.12	-702.6	1,459.8	873.9	825.7	48.20	18.130
10,900.0	9,775.4	10,957.1	9,766.5	23.7	29.7	-91.12	-772.6	1,459.2	874.0	825.4	48.57	17.995
10,925.0	9,775.4	10,982.1	9,766.5	23.8	29.8	-91.12	-797.6	1,459.0	874.0	825.3	48.70	17.945
11,000.0	9,775.4	11,057.1	9,766.6	23.9	29.9	-91.12	-872.6	1,458.4	874.0	824.9	49.13	17.791
11,020.0	9,775.4	11,077.1	9,766.6	24.0	30.0	-91.12	-892.6	1,458.2	874.0	824.8	49.24	17.749
11,100.0	9,775.5	11,157.1	9,766.7	24.1	30.2	-91.12	-972.6	1,457.6	874.1	824.4	49.73	17.577
11,115.0	9,775.5	11,172.1	9,766.7	24.2	30.2	-91.12	-987.6	1,457.4	874.1	824.3	49.82	17.544
11,200.0	9,775.5	11,257.1	9,766.7	24.4	30.5	-91.12	-1,072.6	1,456.7	874.1	823.8	50.37	17.355
11,210.0	9,775.5	11,267.1	9,766.8	24.4	30.5	-91.12	-1,082.6	1,456.7	874.1	823.7	50.44	17.332
11,300.0	9,775.6	11,357.1	9,766.8	24.6	30.7	-91.12	-1,172.6	1,455.9	874.2	823.2	51.05	17.125
11,305.0	9,775.6	11,362.1	9,766.8	24.6	30.8	-91.12	-1,177.6	1,455.9	874.2	823.1	51.08	17.114
11,400.0	9,775.6	11,457.1	9,766.9	24.9	31.0	-91.12	-1,272.6	1,455.1	874.3	822.5	51.76	16.890
11,495.0	9,775.7	11,552.1	9,767.0	25.2	31.3	-91.13	-1,367.6	1,454.3	874.3	821.8	52.47	16.662
11,500.0	9,775.7	11,557.1	9,767.0	25.2	31.3	-91.13	-1,372.6	1,454.3	874.3	821.8	52.51	16.650
11,590.0	9,775.7	11,647.1	9,767.0	25.5	31.6	-91.13	-1,462.6	1,453.5	874.4	821.2	53.22	16.430
11,600.0	9,775.7	11,657.1	9,767.0	25.5	31.7	-91.13	-1,472.6	1,453.4	874.4	821.1	53.30	16.406

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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)	Distance Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.0	9,777.1	14,257.1	9,768.9	38.9	43.9	-91.16	-4,072.5	1,431.9	875.9	794.5	81.42	10.759		
14,250.0	9,777.1	14,307.1	9,769.0	39.2	44.2	-91.16	-4,122.5	1,431.5	876.0	793.9	82.05	10.676		
14,300.0	9,777.2	14,357.1	9,769.0	39.5	44.5	-91.16	-4,172.5	1,431.1	876.0	793.3	82.69	10.594		
14,345.0	9,777.2	14,402.1	9,769.0	39.8	44.7	-91.16	-4,217.5	1,430.7	876.0	792.7	83.26	10.521		
14,400.0	9,777.2	14,457.1	9,769.1	40.2	45.1	-91.16	-4,272.5	1,430.3	876.0	792.1	83.96	10.434		
14,440.0	9,777.2	14,497.1	9,769.1	40.4	45.3	-91.16	-4,312.5	1,429.9	876.1	791.6	84.48	10.370		
14,500.0	9,777.3	14,557.1	9,769.1	40.8	45.7	-91.16	-4,372.5	1,429.4	876.1	790.9	85.25	10.277		
14,535.0	9,777.3	14,592.1	9,769.2	41.1	45.9	-91.16	-4,407.5	1,429.2	876.1	790.4	85.70	10.223		
14,600.0	9,777.3	14,657.1	9,769.2	41.5	46.3	-91.16	-4,472.5	1,428.6	876.2	789.6	86.54	10.124		
14,630.0	9,777.3	14,687.1	9,769.2	41.7	46.4	-91.16	-4,502.5	1,428.4	876.2	789.2	86.93	10.079		
14,700.0	9,777.4	14,757.1	9,769.3	42.2	46.9	-91.16	-4,572.5	1,427.8	876.2	788.4	87.85	9.975		
14,725.0	9,777.4	14,782.1	9,769.3	42.3	47.0	-91.16	-4,597.5	1,427.6	876.2	788.1	88.17	9.938		
14,800.0	9,777.4	14,857.1	9,769.4	42.8	47.5	-91.17	-4,672.5	1,427.0	876.3	787.1	89.15	9.829		
14,820.0	9,777.4	14,877.1	9,769.4	42.9	47.6	-91.17	-4,692.5	1,426.8	876.3	786.9	89.42	9.800		
14,900.0	9,777.5	14,957.1	9,769.4	43.5	48.1	-91.17	-4,772.5	1,426.1	876.3	785.9	90.47	9.686		
14,915.0	9,777.5	14,972.1	9,769.4	43.6	48.2	-91.17	-4,787.5	1,426.0	876.3	785.7	90.67	9.665		
15,000.0	9,777.5	15,057.1	9,769.5	44.2	48.7	-91.17	-4,872.5	1,425.3	876.4	784.6	91.79	9.548		
15,010.0	9,777.5	15,067.1	9,769.5	44.2	48.8	-91.17	-4,882.5	1,425.2	876.4	784.5	91.92	9.534		
15,100.0	9,777.6	15,157.1	9,769.6	44.8	49.3	-91.17	-4,972.5	1,424.5	876.5	783.3	93.12	9.412		
15,105.0	9,777.6	15,162.1	9,769.6	44.9	49.4	-91.17	-4,977.5	1,424.4	876.5	783.3	93.19	9.405		
15,200.0	9,777.6	15,257.1	9,769.6	45.5	50.0	-91.17	-5,072.5	1,423.7	876.5	782.1	94.45	9.280		
15,295.0	9,777.7	15,352.1	9,769.7	46.2	50.6	-91.17	-5,167.5	1,422.9	876.6	780.8	95.73	9.157		
15,300.0	9,777.7	15,357.1	9,769.7	46.2	50.6	-91.17	-5,172.5	1,422.8	876.6	780.8	95.79	9.151		
15,390.0	9,777.7	15,447.1	9,769.8	46.8	51.2	-91.17	-5,262.5	1,422.1	876.6	779.6	97.01	9.037		
15,400.0	9,777.7	15,457.1	9,769.8	46.9	51.2	-91.17	-5,272.5	1,422.0	876.6	779.5	97.14	9.024		
15,485.0	9,777.8	15,542.1	9,769.8	47.5	51.8	-91.17	-5,357.5	1,421.3	876.7	778.4	98.29	8.920		
15,500.0	9,777.8	15,557.1	9,769.9	47.6	51.9	-91.17	-5,372.5	1,421.2	876.7	778.2	98.49	8.901		
15,580.0	9,777.8	15,637.1	9,769.9	48.1	52.4	-91.17	-5,452.5	1,420.5	876.7	777.2	99.57	8.805		
15,600.0	9,777.9	15,657.1	9,769.9	48.2	52.5	-91.17	-5,472.5	1,420.4	876.8	776.9	99.85	8.781		
15,675.0	9,777.9	15,732.1	9,770.0	48.8	53.0	-91.18	-5,547.5	1,419.7	876.8	775.9	100.87	8.693		
15,700.0	9,777.9	15,757.1	9,770.0	48.9	53.1	-91.18	-5,572.5	1,419.5	876.8	775.6	101.21	8.664		
15,770.0	9,777.9	15,827.1	9,770.1	49.4	53.6	-91.18	-5,642.5	1,418.9	876.9	774.7	102.16	8.583		
15,800.0	9,778.0	15,857.1	9,770.1	49.6	53.8	-91.18	-5,672.5	1,418.7	876.9	774.3	102.57	8.549		
15,865.0	9,778.0	15,922.1	9,770.1	50.1	54.2	-91.18	-5,737.5	1,418.2	876.9	773.4	103.46	8.476		
15,900.0	9,778.0	15,957.1	9,770.1	50.3	54.4	-91.18	-5,772.5	1,417.9	876.9	773.0	103.94	8.437		
15,960.0	9,778.0	16,017.1	9,770.2	50.8	54.8	-91.18	-5,832.5	1,417.4	877.0	772.2	104.77	8.371		
16,000.0	9,778.1	16,057.1	9,770.2	51.0	55.1	-91.18	-5,872.5	1,417.0	877.0	771.7	105.32	8.327		
16,055.0	9,778.1	16,112.1	9,770.3	51.4	55.5	-91.18	-5,927.4	1,416.6	877.0	771.0	106.07	8.268		
16,100.0	9,778.1	16,157.1	9,770.3	51.7	55.7	-91.18	-5,972.4	1,416.2	877.1	770.4	106.69	8.220		
16,150.0	9,778.1	16,207.1	9,770.3	52.1	56.1	-91.18	-6,022.4	1,415.8	877.1	769.7	107.38	8.168		
16,200.0	9,778.2	16,257.1	9,770.4	52.4	56.4	-91.18	-6,072.4	1,415.4	877.1	769.0	108.08	8.116		
16,245.0	9,778.2	16,302.1	9,770.4	52.8	56.7	-91.18	-6,117.4	1,415.0	877.1	768.4	108.70	8.069		
16,300.0	9,778.2	16,357.1	9,770.4	53.1	57.1	-91.18	-6,172.4	1,414.6	877.2	767.7	109.46	8.013		
16,340.0	9,778.2	16,397.1	9,770.5	53.4	57.3	-91.18	-6,212.4	1,414.2	877.2	767.2	110.02	7.973		
16,400.0	9,778.3	16,457.1	9,770.5	53.8	57.7	-91.18	-6,272.4	1,413.7	877.2	766.4	110.85	7.914		
16,435.0	9,778.3	16,492.1	9,770.5	54.1	58.0	-91.18	-6,307.4	1,413.4	877.2	765.9	111.34	7.879		
16,500.0	9,778.3	16,557.1	9,770.6	54.6	58.4	-91.19	-6,372.4	1,412.9	877.3	765.0	112.24	7.816		
16,530.0	9,778.3	16,587.1	9,770.6	54.8	58.6	-91.19	-6,402.4	1,412.7	877.3	764.6	112.66	7.787		
16,600.0	9,778.4	16,657.1	9,770.7	55.3	59.1	-91.19	-6,472.4	1,412.1	877.3	763.7	113.64	7.720		
16,625.0	9,778.4	16,682.1	9,770.7	55.4	59.2	-91.19	-6,497.4	1,411.9	877.4	763.4	113.99	7.697		
16,700.0	9,778.4	16,757.1	9,770.7	56.0	59.7	-91.19	-6,572.4	1,411.3	877.4	762.4	115.04	7.627		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	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)		
16,720.0	9,778.4	16,777.1	9,770.7	56.1	59.9	-91.19	-6,592.4	1,411.1	877.4	762.1	115.32	7.608
16,800.0	9,778.5	16,857.1	9,770.8	56.7	60.4	-91.19	-6,672.4	1,410.4	877.5	761.0	116.44	7.536
16,815.0	9,778.5	16,872.1	9,770.8	56.8	60.5	-91.19	-6,687.4	1,410.3	877.5	760.8	116.66	7.522
16,900.0	9,778.5	16,957.1	9,770.9	57.4	61.1	-91.19	-6,772.4	1,409.6	877.5	759.7	117.85	7.446
16,910.0	9,778.5	16,967.1	9,770.9	57.5	61.2	-91.19	-6,782.4	1,409.5	877.5	759.5	117.99	7.437
17,000.0	9,778.6	17,057.1	9,770.9	58.1	61.8	-91.19	-6,872.4	1,408.8	877.6	758.3	119.26	7.359
17,005.0	9,778.6	17,062.1	9,770.9	58.2	61.8	-91.19	-6,877.4	1,408.7	877.6	758.3	119.33	7.354
17,100.0	9,778.6	17,157.1	9,771.0	58.8	62.5	-91.19	-6,972.4	1,407.9	877.6	757.0	120.67	7.273
17,195.0	9,778.7	17,252.1	9,771.1	59.5	63.1	-91.19	-7,067.4	1,407.2	877.7	755.7	122.02	7.193
17,200.0	9,778.7	17,257.1	9,771.1	59.6	63.1	-91.19	-7,072.4	1,407.1	877.7	755.6	122.09	7.189
17,290.0	9,778.7	17,347.1	9,771.2	60.2	63.8	-91.20	-7,162.4	1,406.4	877.8	754.4	123.36	7.115
17,300.0	9,778.7	17,357.1	9,771.2	60.3	63.8	-91.20	-7,172.4	1,406.3	877.8	754.3	123.50	7.107
17,385.0	9,778.8	17,442.1	9,771.2	60.9	64.4	-91.20	-7,257.4	1,405.6	877.8	753.1	124.71	7.039
17,400.0	9,778.8	17,457.1	9,771.2	61.0	64.5	-91.20	-7,272.4	1,405.5	877.8	752.9	124.92	7.027
17,480.0	9,778.8	17,537.1	9,771.3	61.6	65.1	-91.20	-7,352.4	1,404.8	877.9	751.8	126.06	6.964
17,500.0	9,778.9	17,557.1	9,771.3	61.7	65.2	-91.20	-7,372.4	1,404.6	877.9	751.5	126.35	6.948
17,575.0	9,778.9	17,632.1	9,771.4	62.3	65.7	-91.20	-7,447.4	1,404.0	877.9	750.5	127.42	6.890
17,600.0	9,778.9	17,657.1	9,771.4	62.4	65.9	-91.20	-7,472.4	1,403.8	877.9	750.2	127.77	6.871
17,670.0	9,778.9	17,727.1	9,771.4	62.9	66.4	-91.20	-7,542.4	1,403.2	878.0	749.2	128.77	6.818
17,700.0	9,779.0	17,757.1	9,771.4	63.2	66.6	-91.20	-7,572.4	1,403.0	878.0	748.8	129.20	6.796
17,765.0	9,779.0	17,822.1	9,771.5	63.6	67.0	-91.20	-7,637.4	1,402.4	878.0	747.9	130.13	6.748
17,800.0	9,779.0	17,857.1	9,771.5	63.9	67.3	-91.20	-7,672.4	1,402.2	878.1	747.4	130.63	6.722
17,860.0	9,779.0	17,917.1	9,771.6	64.3	67.7	-91.20	-7,732.4	1,401.7	878.1	746.6	131.49	6.678
17,900.0	9,779.1	17,957.1	9,771.6	64.6	68.0	-91.20	-7,772.4	1,401.3	878.1	746.1	132.06	6.649
17,955.0	9,779.1	18,012.1	9,771.6	65.0	68.4	-91.20	-7,827.4	1,400.9	878.2	745.3	132.85	6.610
18,000.0	9,779.1	18,057.1	9,771.7	65.3	68.7	-91.20	-7,872.4	1,400.5	878.2	744.7	133.49	6.578
18,050.0	9,779.1	18,107.1	9,771.7	65.7	69.0	-91.20	-7,922.4	1,400.1	878.2	744.0	134.21	6.543
18,100.0	9,779.2	18,157.1	9,771.7	66.1	69.4	-91.20	-7,972.4	1,399.7	878.2	743.3	134.93	6.509
18,145.0	9,779.2	18,202.1	9,771.8	66.4	69.7	-91.21	-8,017.4	1,399.3	878.3	742.7	135.58	6.478
18,200.0	9,779.2	18,257.1	9,771.8	66.8	70.1	-91.21	-8,072.4	1,398.8	878.3	741.9	136.37	6.441
18,240.0	9,779.2	18,297.1	9,771.8	67.1	70.3	-91.21	-8,112.4	1,398.5	878.3	741.4	136.94	6.414
18,300.0	9,779.3	18,357.1	9,771.9	67.5	70.8	-91.21	-8,172.4	1,398.0	878.4	740.5	137.81	6.374
18,335.0	9,779.3	18,392.1	9,771.9	67.8	71.0	-91.21	-8,207.4	1,397.7	878.4	740.1	138.31	6.351
18,400.0	9,779.3	18,457.1	9,772.0	68.3	71.5	-91.21	-8,272.4	1,397.2	878.4	739.2	139.25	6.308
18,430.0	9,779.3	18,487.1	9,772.0	68.5	71.7	-91.21	-8,302.4	1,396.9	878.4	738.8	139.68	6.289
18,500.0	9,779.4	18,557.1	9,772.0	69.0	72.2	-91.21	-8,372.4	1,396.4	878.5	737.8	140.69	6.244
18,525.0	9,779.4	18,582.1	9,772.0	69.2	72.3	-91.21	-8,397.4	1,396.2	878.5	737.4	141.05	6.228
18,600.0	9,779.4	18,657.1	9,772.1	69.7	72.9	-91.21	-8,472.4	1,395.5	878.5	736.4	142.14	6.181
18,620.0	9,779.4	18,677.1	9,772.1	69.9	73.0	-91.21	-8,492.4	1,395.4	878.5	736.1	142.43	6.168
18,700.0	9,779.5	18,757.1	9,772.2	70.4	73.6	-91.21	-8,572.4	1,394.7	878.6	735.0	143.59	6.119
18,715.0	9,779.5	18,772.1	9,772.2	70.6	73.7	-91.21	-8,587.4	1,394.6	878.6	734.8	143.80	6.110
18,800.0	9,779.5	18,857.1	9,772.2	71.2	74.3	-91.21	-8,672.4	1,393.9	878.7	733.6	145.03	6.058
18,810.0	9,779.5	18,867.1	9,772.3	71.3	74.4	-91.21	-8,682.4	1,393.8	878.7	733.5	145.18	6.052
18,900.0	9,779.6	18,957.1	9,772.3	71.9	75.0	-91.21	-8,772.4	1,393.1	878.7	732.2	146.48	5.999
18,905.0	9,779.6	18,962.1	9,772.3	72.0	75.0	-91.21	-8,777.4	1,393.0	878.7	732.2	146.56	5.996
19,000.0	9,779.6	19,057.1	9,772.4	72.6	75.7	-91.22	-8,872.3	1,392.2	878.8	730.8	147.94	5.940
19,095.0	9,779.7	19,152.1	9,772.5	73.3	76.4	-91.22	-8,967.3	1,391.4	878.8	729.5	149.32	5.886
19,100.0	9,779.7	19,157.1	9,772.5	73.4	76.4	-91.22	-8,972.3	1,391.4	878.8	729.4	149.39	5.883
19,190.0	9,779.7	19,247.1	9,772.5	74.0	77.1	-91.22	-9,062.3	1,390.7	878.9	728.2	150.70	5.832
19,200.0	9,779.8	19,257.1	9,772.5	74.1	77.1	-91.22	-9,072.3	1,390.6	878.9	728.0	150.84	5.826
19,285.0	9,779.8	19,342.1	9,772.6	74.7	77.7	-91.22	-9,157.3	1,389.9	878.9	726.9	152.08	5.779

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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		Warning						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
19,300.0	9,779.8	19,357.1	9,772.6	74.9	77.8	-91.22	-9,172.3	1,389.8	879.0	726.7	152.30	5.771		
19,380.0	9,779.8	19,437.1	9,772.7	75.4	78.4	-91.22	-9,252.3	1,389.1	879.0	725.5	153.47	5.728		
19,400.0	9,779.9	19,457.1	9,772.7	75.6	78.6	-91.22	-9,272.3	1,388.9	879.0	725.3	153.76	5.717		
19,475.0	9,779.9	19,532.1	9,772.7	76.1	79.1	-91.22	-9,347.3	1,388.3	879.1	724.2	154.85	5.677		
19,500.0	9,779.9	19,557.1	9,772.8	76.3	79.3	-91.22	-9,372.3	1,388.1	879.1	723.9	155.22	5.664		
19,570.0	9,779.9	19,627.1	9,772.8	76.8	79.8	-91.22	-9,442.3	1,387.5	879.1	722.9	156.24	5.627		
19,600.0	9,780.0	19,657.1	9,772.8	77.1	80.0	-91.22	-9,472.3	1,387.3	879.1	722.5	156.68	5.611		
19,665.0	9,780.0	19,722.1	9,772.9	77.5	80.5	-91.22	-9,537.3	1,386.7	879.2	721.5	157.63	5.578		
19,700.0	9,780.0	19,757.1	9,772.9	77.8	80.7	-91.22	-9,572.3	1,386.4	879.2	721.1	158.14	5.560		
19,760.0	9,780.0	19,817.1	9,772.9	78.3	81.1	-91.22	-9,632.3	1,385.9	879.2	720.2	159.02	5.529		
19,800.0	9,780.1	19,857.1	9,773.0	78.5	81.4	-91.23	-9,672.3	1,385.6	879.2	719.6	159.60	5.509		
19,855.0	9,780.1	19,912.1	9,773.0	79.0	81.8	-91.23	-9,727.3	1,385.2	879.3	718.9	160.41	5.482		
19,900.0	9,780.1	19,957.1	9,773.0	79.3	82.1	-91.23	-9,772.3	1,384.8	879.3	718.2	161.06	5.459		
19,950.0	9,780.1	20,007.1	9,773.1	79.7	82.5	-91.23	-9,822.3	1,384.4	879.3	717.5	161.80	5.435		
20,000.0	9,780.2	20,057.1	9,773.1	80.0	82.9	-91.23	-9,872.3	1,384.0	879.4	716.8	162.53	5.410		
20,045.0	9,780.2	20,102.1	9,773.1	80.4	83.2	-91.23	-9,917.3	1,383.6	879.4	716.2	163.19	5.389		
20,100.0	9,780.2	20,157.1	9,773.2	80.8	83.6	-91.23	-9,972.3	1,383.1	879.4	715.4	164.00	5.362		
20,140.0	9,780.2	20,197.1	9,773.2	81.1	83.9	-91.23	-10,012.3	1,382.8	879.4	714.9	164.58	5.343		
20,200.0	9,780.3	20,257.1	9,773.3	81.5	84.3	-91.23	-10,072.3	1,382.3	879.5	714.0	165.46	5.315		
20,235.0	9,780.3	20,292.1	9,773.3	81.8	84.6	-91.23	-10,107.3	1,382.0	879.5	713.5	165.98	5.299		
20,300.0	9,780.3	20,357.1	9,773.3	82.3	85.0	-91.23	-10,172.3	1,381.5	879.5	712.6	166.93	5.269		
20,330.0	9,780.3	20,387.1	9,773.4	82.5	85.2	-91.23	-10,202.3	1,381.2	879.6	712.2	167.37	5.255		
20,400.0	9,780.4	20,457.1	9,773.4	83.0	85.7	-91.23	-10,272.3	1,380.7	879.6	711.2	168.40	5.223		
20,425.0	9,780.4	20,482.1	9,773.4	83.2	85.9	-91.23	-10,297.3	1,380.4	879.6	710.8	168.77	5.212		
20,500.0	9,780.4	20,557.1	9,773.5	83.7	86.5	-91.23	-10,372.3	1,379.8	879.7	709.8	169.87	5.178		
20,520.0	9,780.4	20,577.1	9,773.5	83.9	86.6	-91.23	-10,392.3	1,379.7	879.7	709.5	170.17	5.169		
20,600.0	9,780.5	20,657.1	9,773.5	84.5	87.2	-91.23	-10,472.3	1,379.0	879.7	708.4	171.34	5.134		
20,615.0	9,780.5	20,672.1	9,773.6	84.6	87.3	-91.23	-10,487.3	1,378.9	879.7	708.2	171.56	5.128		
20,700.0	9,780.5	20,757.1	9,773.6	85.2	87.9	-91.24	-10,572.3	1,378.2	879.8	707.0	172.82	5.091		
20,710.0	9,780.5	20,767.1	9,773.6	85.3	88.0	-91.24	-10,582.3	1,378.1	879.8	706.8	172.96	5.087		
20,800.0	9,780.6	20,857.1	9,773.7	86.0	88.6	-91.24	-10,672.3	1,377.3	879.8	705.6	174.29	5.048		
20,805.0	9,780.6	20,862.1	9,773.7	86.0	88.7	-91.24	-10,677.3	1,377.3	879.8	705.5	174.36	5.046		
20,900.0	9,780.6	20,957.1	9,773.8	86.7	89.4	-91.24	-10,772.3	1,376.5	879.9	704.1	175.76	5.006		
20,995.0	9,780.7	21,052.1	9,773.8	87.4	90.1	-91.24	-10,867.3	1,375.7	880.0	702.8	177.17	4.967		
21,000.0	9,780.7	21,057.1	9,773.8	87.5	90.1	-91.24	-10,872.3	1,375.7	880.0	702.7	177.24	4.965		
21,090.0	9,780.7	21,147.1	9,773.9	88.1	90.8	-91.24	-10,962.3	1,374.9	880.0	701.4	178.57	4.928		
21,100.0	9,780.8	21,157.1	9,773.9	88.2	90.8	-91.24	-10,972.3	1,374.9	880.0	701.3	178.72	4.924		
21,185.0	9,780.8	21,242.1	9,774.0	88.8	91.4	-91.24	-11,057.3	1,374.2	880.1	700.1	179.97	4.890		
21,200.0	9,780.8	21,257.1	9,774.0	88.9	91.6	-91.24	-11,072.3	1,374.0	880.1	699.9	180.19	4.884		
21,280.0	9,780.8	21,337.1	9,774.0	89.5	92.1	-91.24	-11,152.3	1,373.4	880.1	698.8	181.38	4.853		
21,300.0	9,780.9	21,357.1	9,774.1	89.7	92.3	-91.24	-11,172.3	1,373.2	880.1	698.5	181.67	4.845		
21,375.0	9,780.9	21,432.1	9,774.1	90.2	92.8	-91.24	-11,247.3	1,372.6	880.2	697.4	182.78	4.816		
21,400.0	9,780.9	21,457.1	9,774.1	90.4	93.0	-91.24	-11,272.3	1,372.4	880.2	697.0	183.15	4.806		
21,470.0	9,780.9	21,527.1	9,774.2	91.0	93.5	-91.25	-11,342.3	1,371.8	880.2	696.1	184.18	4.779		
21,500.0	9,781.0	21,557.1	9,774.2	91.2	93.7	-91.25	-11,372.3	1,371.6	880.3	695.6	184.63	4.768		
21,565.0	9,781.0	21,622.1	9,774.2	91.7	94.2	-91.25	-11,437.3	1,371.0	880.3	694.7	185.59	4.743		
21,600.0	9,781.0	21,657.1	9,774.3	91.9	94.5	-91.25	-11,472.3	1,370.7	880.3	694.2	186.11	4.730		
21,660.0	9,781.0	21,717.1	9,774.3	92.4	94.9	-91.25	-11,532.3	1,370.2	880.4	693.4	187.00	4.708		
21,700.0	9,781.1	21,757.1	9,774.3	92.7	95.2	-91.25	-11,572.3	1,369.9	880.4	692.8	187.59	4.693		
21,755.0	9,781.1	21,812.1	9,774.4	93.1	95.6	-91.25	-11,627.3	1,369.4	880.4	692.0	188.41	4.673		
21,800.0	9,781.1	21,857.1	9,774.4	93.4	95.9	-91.25	-11,672.2	1,369.1	880.4	691.4	189.07	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 #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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		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	
21,850.0	9,781.1	21,907.1	9,774.5	93.8	96.3	-91.25	-11,722.2	1,368.7	880.5	690.7	189.81	4.639	
21,900.0	9,781.2	21,957.1	9,774.5	94.2	96.7	-91.25	-11,772.2	1,368.3	880.5	689.9	190.55	4.621	
21,945.0	9,781.2	22,002.1	9,774.5	94.5	97.0	-91.25	-11,817.2	1,367.9	880.5	689.3	191.22	4.605	
22,000.0	9,781.2	22,057.1	9,774.6	94.9	97.4	-91.25	-11,872.2	1,367.4	880.6	688.5	192.04	4.585	
22,040.0	9,781.2	22,097.1	9,774.6	95.2	97.7	-91.25	-11,912.2	1,367.1	880.6	687.9	192.63	4.571	
22,100.0	9,781.3	22,157.1	9,774.6	95.7	98.1	-91.25	-11,972.2	1,366.6	880.6	687.1	193.52	4.550	
22,135.0	9,781.3	22,192.1	9,774.7	95.9	98.4	-91.25	-12,007.2	1,366.3	880.6	686.6	194.04	4.538	
22,200.0	9,781.3	22,257.1	9,774.7	96.4	98.9	-91.25	-12,072.2	1,365.8	880.7	685.7	195.01	4.516	
22,230.0	9,781.3	22,287.1	9,774.7	96.6	99.1	-91.25	-12,102.2	1,365.5	880.7	685.2	195.45	4.506	
22,300.0	9,781.4	22,357.1	9,774.8	97.2	99.6	-91.26	-12,172.2	1,364.9	880.7	684.2	196.49	4.482	
22,325.0	9,781.4	22,382.1	9,774.8	97.3	99.8	-91.26	-12,197.2	1,364.7	880.7	683.9	196.86	4.474	
22,400.0	9,781.4	22,457.1	9,774.8	97.9	100.3	-91.26	-12,272.2	1,364.1	880.8	682.8	197.98	4.449	
22,420.0	9,781.4	22,477.1	9,774.9	98.1	100.5	-91.26	-12,292.2	1,364.0	880.8	682.5	198.27	4.442	
22,500.0	9,781.5	22,557.1	9,774.9	98.7	101.1	-91.26	-12,372.2	1,363.3	880.9	681.4	199.46	4.416	
22,515.0	9,781.5	22,572.1	9,774.9	98.8	101.2	-91.26	-12,387.2	1,363.2	880.9	681.2	199.69	4.411	
22,600.0	9,781.5	22,657.1	9,775.0	99.4	101.8	-91.26	-12,472.2	1,362.5	880.9	680.0	200.95	4.384	
22,610.0	9,781.5	22,667.1	9,775.0	99.5	101.9	-91.26	-12,482.2	1,362.4	880.9	679.8	201.10	4.380	
22,700.0	9,781.6	22,757.1	9,775.1	100.2	102.5	-91.26	-12,572.2	1,361.6	881.0	678.5	202.44	4.352	
22,705.0	9,781.6	22,762.1	9,775.1	100.2	102.6	-91.26	-12,577.2	1,361.6	881.0	678.5	202.51	4.350	
22,800.0	9,781.6	22,857.1	9,775.1	100.9	103.3	-91.26	-12,672.2	1,360.8	881.0	677.1	203.93	4.320	
22,895.0	9,781.7	22,952.1	9,775.2	101.6	104.0	-91.26	-12,767.2	1,360.0	881.1	675.7	205.34	4.291	
22,900.0	9,781.7	22,957.1	9,775.2	101.7	104.0	-91.26	-12,772.2	1,360.0	881.1	675.7	205.42	4.289	
22,990.0	9,781.7	23,047.1	9,775.3	102.3	104.7	-91.26	-12,862.2	1,359.2	881.1	674.4	206.76	4.262	
23,000.0	9,781.8	23,057.1	9,775.3	102.4	104.7	-91.26	-12,872.2	1,359.2	881.1	674.2	206.91	4.259	
23,085.0	9,781.8	23,142.1	9,775.3	103.0	105.4	-91.26	-12,957.2	1,358.5	881.2	673.0	208.17	4.233	
23,100.0	9,781.8	23,157.1	9,775.4	103.2	105.5	-91.26	-12,972.2	1,358.3	881.2	672.8	208.40	4.229	
23,180.0	9,781.9	23,237.1	9,775.4	103.8	106.1	-91.27	-13,052.2	1,357.7	881.3	671.7	209.59	4.205	
23,200.0	9,781.9	23,257.1	9,775.4	103.9	106.2	-91.27	-13,072.2	1,357.5	881.3	671.4	209.89	4.199	
23,275.0	9,781.9	23,332.1	9,775.5	104.5	106.8	-91.27	-13,147.2	1,356.9	881.3	670.3	211.01	4.177	
23,300.0	9,781.9	23,357.1	9,775.5	104.7	107.0	-91.27	-13,172.2	1,356.7	881.3	669.9	211.38	4.169	
23,370.0	9,782.0	23,427.1	9,775.6	105.2	107.5	-91.27	-13,242.2	1,356.1	881.4	668.9	212.42	4.149	
23,400.0	9,782.0	23,457.1	9,775.6	105.4	107.7	-91.27	-13,272.2	1,355.8	881.4	668.5	212.87	4.140	
23,465.0	9,782.0	23,522.1	9,775.6	105.9	108.2	-91.27	-13,337.2	1,355.3	881.4	667.6	213.84	4.122	
23,500.0	9,782.0	23,557.1	9,775.6	106.2	108.4	-91.27	-13,372.2	1,355.0	881.4	667.1	214.36	4.112	
23,560.0	9,782.1	23,617.1	9,775.7	106.6	108.9	-91.27	-13,432.2	1,354.5	881.5	666.2	215.26	4.095	
23,600.0	9,782.1	23,657.1	9,775.7	106.9	109.2	-91.27	-13,472.2	1,354.2	881.5	665.7	215.85	4.084	
23,655.0	9,782.1	23,712.1	9,775.8	107.3	109.6	-91.27	-13,527.2	1,353.7	881.5	664.9	216.68	4.068	
23,700.0	9,782.1	23,757.1	9,775.8	107.7	109.9	-91.27	-13,572.2	1,353.4	881.6	664.2	217.35	4.056	
23,750.0	9,782.2	23,807.1	9,775.8	108.0	110.3	-91.27	-13,622.2	1,353.0	881.6	663.5	218.09	4.042	
23,800.0	9,782.2	23,857.1	9,775.9	108.4	110.7	-91.27	-13,672.2	1,352.5	881.6	662.8	218.84	4.029	
23,845.0	9,782.2	23,902.1	9,775.9	108.7	111.0	-91.27	-13,717.2	1,352.2	881.7	662.1	219.51	4.016	
23,900.0	9,782.2	23,957.1	9,775.9	109.2	111.4	-91.27	-13,772.2	1,351.7	881.7	661.3	220.34	4.002	
23,940.0	9,782.3	23,997.1	9,776.0	109.5	111.7	-91.27	-13,812.2	1,351.4	881.7	660.8	220.93	3.991	
24,000.0	9,782.3	24,057.1	9,776.0	109.9	112.1	-91.28	-13,872.2	1,350.9	881.7	659.9	221.83	3.975	
24,035.0	9,782.3	24,092.1	9,776.0	110.2	112.4	-91.28	-13,907.2	1,350.6	881.8	659.4	222.35	3.966	
24,100.0	9,782.3	24,157.1	9,776.1	110.7	112.9	-91.28	-13,972.2	1,350.1	881.8	658.5	223.33	3.949	
24,130.0	9,782.4	24,187.1	9,776.1	110.9	113.1	-91.28	-14,002.2	1,349.8	881.8	658.0	223.77	3.941	
24,200.0	9,782.4	24,257.1	9,776.2	111.4	113.6	-91.28	-14,072.2	1,349.2	881.9	657.0	224.82	3.923	
24,225.0	9,782.4	24,282.1	9,776.2	111.6	113.8	-91.28	-14,097.2	1,349.0	881.9	656.7	225.19	3.916	
24,300.0	9,782.4	24,357.1	9,776.2	112.2	114.4	-91.28	-14,172.2	1,348.4	881.9	655.6	226.32	3.897	
24,320.0	9,782.5	24,377.1	9,776.2	112.3	114.5	-91.28	-14,192.2	1,348.2	881.9	655.3	226.62	3.892	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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		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		
24,400.0	9,782.5	24,457.1	9,776.3	112.9	115.1	-91.28	-14,272.2	1,347.6	882.0	654.2	227.81	3.872		
24,415.0	9,782.5	24,472.1	9,776.3	113.0	115.2	-91.28	-14,287.2	1,347.5	882.0	654.0	228.04	3.868		
24,500.0	9,782.5	24,557.1	9,776.4	113.7	115.8	-91.28	-14,372.2	1,346.7	882.0	652.7	229.31	3.846		
24,510.0	9,782.6	24,567.1	9,776.4	113.7	115.9	-91.28	-14,382.2	1,346.7	882.0	652.6	229.46	3.844		
24,600.0	9,782.6	24,657.1	9,776.4	114.4	116.6	-91.28	-14,472.2	1,345.9	882.1	651.3	230.81	3.822		
24,605.0	9,782.6	24,662.1	9,776.4	114.5	116.6	-91.28	-14,477.2	1,345.9	882.1	651.2	230.88	3.821		
24,700.0	9,782.7	24,757.1	9,776.5	115.2	117.3	-91.28	-14,572.1	1,345.1	882.2	649.9	232.30	3.797		
24,795.0	9,782.7	24,852.1	9,776.6	115.9	118.0	-91.28	-14,667.1	1,344.3	882.2	648.5	233.73	3.775		
24,800.0	9,782.7	24,857.1	9,776.6	115.9	118.1	-91.28	-14,672.1	1,344.3	882.2	648.4	233.80	3.773		
24,890.0	9,782.8	24,947.1	9,776.7	116.6	118.7	-91.29	-14,762.1	1,343.5	882.3	647.1	235.15	3.752		
24,900.0	9,782.8	24,957.1	9,776.7	116.7	118.8	-91.29	-14,772.1	1,343.4	882.3	647.0	235.30	3.750		
24,985.0	9,782.8	25,042.1	9,776.7	117.3	119.4	-91.29	-14,857.1	1,342.7	882.3	645.8	236.57	3.730		
25,000.0	9,782.8	25,057.1	9,776.7	117.4	119.6	-91.29	-14,872.1	1,342.6	882.3	645.5	236.80	3.726		
25,080.0	9,782.9	25,137.1	9,776.8	118.0	120.2	-91.29	-14,952.1	1,342.0	882.4	644.4	238.00	3.708		
25,100.0	9,782.9	25,157.1	9,776.8	118.2	120.3	-91.29	-14,972.1	1,341.8	882.4	644.1	238.30	3.703		
25,175.0	9,782.9	25,232.1	9,776.9	118.8	120.9	-91.29	-15,047.1	1,341.2	882.4	643.0	239.42	3.686		
25,200.0	9,782.9	25,257.1	9,776.9	118.9	121.0	-91.29	-15,072.1	1,341.0	882.5	642.7	239.80	3.680		
25,229.2	9,782.9	25,286.2	9,776.9	119.2	121.3	-91.29	-15,101.3	1,340.7	882.5	642.2	240.23	3.673		
25,270.0	9,783.0	25,327.1	9,776.9	119.5	121.6	-91.29	-15,142.1	1,340.4	882.5	641.7	240.85	3.664		
25,300.0	9,783.0	25,357.1	9,776.9	119.7	121.8	-91.29	-15,172.1	1,340.1	882.5	641.2	241.30	3.657		
25,359.2	9,783.0	25,416.2	9,777.0	120.1	122.2	-91.29	-15,231.3	1,339.6	882.6	640.4	242.18	3.644 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 #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	-90.96	-0.5	-29.9	29.9				
95.0	95.0	94.9	94.9	3.0	3.0	-90.96	-0.5	-29.9	29.9	23.9	6.04	4.954	
100.0	100.0	99.9	99.9	3.0	3.0	-90.96	-0.5	-29.9	29.9	23.9	6.04	4.950	
190.0	190.0	189.9	189.9	3.1	3.1	-90.96	-0.5	-29.9	29.9	23.7	6.25	4.783	
200.0	200.0	199.9	199.9	3.1	3.1	-90.96	-0.5	-29.9	29.9	23.6	6.29	4.757	
285.0	285.0	284.9	284.9	3.3	3.3	-90.96	-0.5	-29.9	29.9	23.4	6.48	4.613	
300.0	300.0	299.9	299.9	3.3	3.3	-90.96	-0.5	-29.9	29.9	23.4	6.52	4.585	
380.0	380.0	379.9	379.9	3.4	3.4	-90.96	-0.5	-29.9	29.9	23.2	6.70	4.462	
400.0	400.0	399.9	399.9	3.4	3.4	-90.96	-0.5	-29.9	29.9	23.2	6.75	4.430	
475.0	475.0	474.9	474.9	3.5	3.5	-90.96	-0.5	-29.9	29.9	23.0	6.91	4.326	
500.0	500.0	499.9	499.9	3.5	3.5	-90.96	-0.5	-29.9	29.9	22.9	6.97	4.290	
570.0	570.0	569.9	569.9	3.6	3.6	-90.96	-0.5	-29.9	29.9	22.8	7.12	4.201	
600.0	600.0	599.9	599.9	3.6	3.6	-90.96	-0.5	-29.9	29.9	22.7	7.18	4.162	
665.0	665.0	664.9	664.9	3.7	3.7	-90.96	-0.5	-29.9	29.9	22.6	7.32	4.086	
700.0	700.0	699.9	699.9	3.8	3.8	-90.96	-0.5	-29.9	29.9	22.5	7.39	4.046	
760.0	760.0	759.9	759.9	3.8	3.8	-90.96	-0.5	-29.9	29.9	22.4	7.51	3.981	
800.0	800.0	799.9	799.9	3.9	3.9	-90.96	-0.5	-29.9	29.9	22.3	7.59	3.938	
855.0	855.0	854.9	854.9	4.0	4.0	-90.96	-0.5	-29.9	29.9	22.2	7.70	3.883	
900.0	900.0	899.9	899.9	4.0	4.0	-90.96	-0.5	-29.9	29.9	22.1	7.79	3.839	
950.0	950.0	949.9	949.9	4.1	4.1	-90.96	-0.5	-29.9	29.9	22.0	7.89	3.792	
1,000.0	1,000.0	999.9	999.9	4.1	4.1	-90.96	-0.5	-29.9	29.9	21.9	7.98	3.746	
1,045.0	1,045.0	1,044.9	1,044.9	4.2	4.2	-90.96	-0.5	-29.9	29.9	21.8	8.07	3.708	
1,100.0	1,100.0	1,099.9	1,099.9	4.2	4.2	-90.96	-0.5	-29.9	29.9	21.7	8.17	3.660	
1,140.0	1,140.0	1,139.9	1,139.9	4.3	4.3	-90.96	-0.5	-29.9	29.9	21.7	8.24	3.628	
1,200.0	1,200.0	1,199.9	1,199.9	4.4	4.4	-90.96	-0.5	-29.9	29.9	21.6	8.35	3.580	
1,235.0	1,235.0	1,234.9	1,234.9	4.4	4.4	-90.96	-0.5	-29.9	29.9	21.5	8.41	3.554	
1,300.0	1,300.0	1,299.9	1,299.9	4.5	4.5	-90.96	-0.5	-29.9	29.9	21.4	8.53	3.505	
1,330.0	1,330.0	1,329.9	1,329.9	4.5	4.5	-90.96	-0.5	-29.9	29.9	21.3	8.58	3.484	
1,400.0	1,400.0	1,399.9	1,399.9	4.6	4.6	-90.96	-0.5	-29.9	29.9	21.2	8.71	3.434	
1,425.0	1,425.0	1,424.9	1,424.9	4.6	4.6	-90.96	-0.5	-29.9	29.9	21.2	8.75	3.418	
1,500.0	1,500.0	1,499.9	1,499.9	4.7	4.7	-90.96	-0.5	-29.9	29.9	21.0	8.88	3.368 CC, ES	
1,520.0	1,520.0	1,519.8	1,519.8	4.7	4.8	-140.10	-0.4	-29.9	30.0	21.1	8.93	3.358 SF	
1,600.0	1,600.0	1,599.4	1,599.4	4.9	4.9	-139.32	1.0	-30.7	32.0	22.9	9.13	3.505	
1,615.0	1,615.0	1,614.3	1,614.3	4.9	4.9	-139.08	1.5	-30.9	32.7	23.5	9.19	3.556	
1,700.0	1,699.8	1,698.6	1,698.5	5.1	5.2	-137.40	5.6	-33.0	38.3	28.8	9.54	4.017	
1,710.0	1,709.8	1,708.5	1,708.3	5.1	5.2	-137.18	6.3	-33.3	39.2	29.6	9.58	4.090	
1,800.0	1,799.5	1,797.3	1,796.8	5.4	5.4	-135.28	13.3	-36.9	48.9	38.9	9.96	4.911	
1,805.0	1,804.4	1,802.2	1,801.7	5.4	5.4	-135.18	13.7	-37.1	49.5	39.6	9.98	4.965	
1,900.0	1,898.7	1,895.2	1,893.9	5.7	5.7	-133.45	23.8	-42.2	63.7	53.3	10.38	6.138	
1,995.0	1,992.5	1,987.2	1,984.9	6.0	6.0	-132.06	36.4	-48.6	81.6	70.8	10.79	7.568	
2,000.0	1,997.5	1,992.0	1,989.6	6.0	6.0	-132.00	37.1	-48.9	82.7	71.9	10.81	7.649	
2,090.0	2,085.8	2,078.1	2,074.2	6.3	6.3	-130.96	51.4	-56.1	103.3	92.1	11.21	9.216	
2,100.0	2,095.6	2,087.6	2,083.5	6.3	6.3	-130.86	53.1	-57.0	105.8	94.5	11.25	9.401	
2,185.0	2,178.5	2,168.7	2,162.7	6.6	6.5	-130.19	68.5	-64.8	128.4	116.8	11.59	11.080	
2,200.2	2,193.2	2,183.3	2,177.0	6.7	6.6	-130.15	71.4	-66.3	132.6	121.0	11.65	11.383	
2,280.0	2,270.7	2,259.9	2,251.7	6.9	6.8	-130.33	86.2	-73.7	155.0	143.0	11.99	12.921	
2,300.0	2,290.1	2,279.1	2,270.5	7.0	6.9	-130.37	89.9	-75.6	160.6	148.5	12.08	13.290	
2,375.0	2,362.9	2,351.1	2,340.8	7.2	7.1	-130.50	103.8	-82.7	181.6	169.2	12.43	14.614	
2,400.0	2,387.1	2,375.1	2,364.2	7.3	7.2	-130.53	108.4	-85.0	188.6	176.1	12.54	15.038	
2,470.0	2,455.0	2,442.3	2,429.8	7.5	7.4	-130.62	121.4	-91.6	208.2	195.3	12.87	16.174	
2,500.0	2,484.1	2,471.1	2,457.9	7.7	7.5	-130.65	127.0	-94.4	216.6	203.6	13.02	16.641	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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 Toolface	Offset Wellbore Centre	Distance	Rule Assigned:	Minimum Separation	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
2,565.0	2,547.2	2,533.5	2,518.8	7.9	7.7	-130.71	139.0	-100.5	234.8	221.5	13.34	17.608	
2,600.0	2,581.2	2,567.1	2,551.6	8.0	7.8	-130.74	145.5	-103.8	244.6	231.1	13.51	18.108	
2,660.0	2,639.4	2,624.7	2,607.9	8.2	8.0	-130.78	156.6	-109.4	261.4	247.6	13.81	18.928	
2,700.0	2,678.2	2,663.1	2,645.4	8.4	8.2	-130.81	164.0	-113.1	272.7	258.6	14.02	19.452	
2,755.0	2,731.6	2,715.9	2,696.9	8.6	8.4	-130.84	174.2	-118.3	288.1	273.8	14.30	20.142	
2,800.0	2,775.2	2,759.1	2,739.1	8.8	8.5	-130.87	182.6	-122.5	300.7	286.1	14.54	20.684	
2,850.0	2,823.7	2,807.1	2,785.9	9.0	8.7	-130.89	191.9	-127.2	314.7	299.9	14.80	21.260	
2,900.0	2,872.3	2,855.1	2,832.8	9.2	8.9	-130.92	201.1	-131.9	328.7	313.6	15.07	21.814	
2,945.0	2,915.9	2,898.2	2,875.0	9.3	9.1	-130.94	209.5	-136.1	341.3	326.0	15.31	22.291	
3,000.0	2,969.3	2,951.0	2,926.5	9.6	9.3	-130.96	219.7	-141.3	356.7	341.1	15.61	22.851	
3,040.0	3,008.1	2,989.4	2,964.0	9.7	9.4	-130.97	227.1	-145.0	367.9	352.1	15.83	23.242	
3,100.0	3,066.3	3,047.0	3,020.2	10.0	9.7	-130.99	238.2	-150.7	384.7	368.6	16.16	23.805	
3,135.0	3,100.3	3,080.6	3,053.0	10.1	9.8	-131.01	244.7	-153.9	394.5	378.2	16.36	24.120	
3,200.0	3,163.3	3,143.0	3,113.9	10.4	10.1	-131.02	256.8	-160.0	412.8	396.0	16.72	24.683	
3,230.0	3,192.4	3,171.8	3,142.1	10.5	10.2	-131.03	262.3	-162.9	421.2	404.3	16.89	24.933	
3,300.0	3,260.4	3,239.0	3,207.7	10.8	10.5	-131.05	275.3	-169.4	440.8	423.5	17.29	25.493	
3,325.0	3,284.6	3,263.0	3,231.1	10.9	10.6	-131.06	279.9	-171.8	447.8	430.4	17.43	25.685	
3,400.0	3,357.4	3,335.0	3,301.4	11.2	10.9	-131.07	293.9	-178.8	468.8	450.9	17.87	26.241	
3,420.0	3,376.8	3,354.2	3,320.1	11.3	10.9	-131.08	297.6	-180.7	474.4	456.4	17.98	26.384	
3,500.0	3,454.4	3,431.0	3,395.1	11.7	11.3	-131.09	312.4	-188.2	496.8	478.4	18.45	26.934	
3,515.0	3,469.0	3,445.4	3,409.1	11.7	11.3	-131.10	315.2	-189.6	501.0	482.5	18.53	27.033	
3,600.0	3,551.4	3,527.0	3,488.8	12.1	11.7	-131.11	330.9	-197.6	524.9	505.8	19.03	27.576	
3,610.0	3,561.1	3,536.6	3,498.2	12.2	11.7	-131.11	332.8	-198.5	527.7	508.6	19.09	27.637	
3,700.0	3,648.5	3,623.0	3,582.5	12.6	12.1	-131.13	349.5	-207.0	552.9	533.3	19.63	28.172	
3,705.0	3,653.3	3,627.8	3,587.2	12.6	12.1	-131.13	350.4	-207.4	554.3	534.6	19.66	28.200	
3,800.0	3,745.5	3,719.0	3,676.2	13.0	12.5	-131.14	368.0	-216.3	580.9	560.7	20.22	28.726	
3,895.0	3,837.7	3,810.2	3,765.3	13.4	12.9	-131.16	385.6	-225.2	607.5	586.7	20.79	29.217	
3,900.0	3,842.5	3,815.0	3,770.0	13.5	12.9	-131.16	386.6	-225.7	608.9	588.1	20.82	29.242	
3,990.0	3,929.9	3,901.4	3,854.3	13.9	13.3	-131.17	403.3	-234.2	634.1	612.8	21.37	29.677	
4,000.0	3,939.6	3,911.0	3,863.7	13.9	13.3	-131.17	405.1	-235.1	636.9	615.5	21.43	29.724	
4,085.0	4,022.0	3,992.6	3,943.3	14.3	13.7	-131.18	420.9	-243.1	660.8	638.8	21.95	30.109	
4,100.0	4,036.6	4,007.0	3,957.4	14.4	13.8	-131.18	423.7	-244.5	665.0	642.9	22.04	30.175	
4,180.0	4,114.2	4,083.8	4,032.4	14.7	14.1	-131.19	438.5	-252.0	687.4	664.9	22.52	30.526	
4,200.0	4,133.6	4,105.2	4,053.3	14.8	14.2	-131.20	442.6	-254.1	693.0	670.3	22.65	30.598	
4,275.0	4,206.4	4,188.7	4,135.1	15.2	14.6	-131.32	457.2	-261.5	713.2	690.0	23.18	30.760	
4,300.0	4,230.6	4,216.6	4,162.6	15.3	14.7	-131.40	461.7	-263.7	719.7	696.3	23.36	30.806	
4,370.0	4,298.6	4,295.2	4,240.2	15.6	15.1	-131.71	472.8	-269.3	737.1	713.3	23.85	30.907	
4,400.0	4,327.7	4,329.0	4,273.7	15.7	15.2	-131.88	477.0	-271.5	744.3	720.2	24.05	30.945	
4,465.0	4,390.7	4,402.5	4,346.6	16.0	15.5	-132.33	485.0	-275.5	759.2	734.8	24.49	31.001	
4,500.0	4,424.7	4,442.1	4,386.0	16.2	15.7	-132.62	488.5	-277.3	766.9	742.2	24.72	31.029	
4,560.0	4,482.9	4,510.1	4,453.8	16.5	16.0	-133.17	493.6	-279.8	779.6	754.5	25.10	31.057	
4,600.0	4,521.7	4,555.4	4,499.1	16.7	16.1	-133.59	496.1	-281.1	787.7	762.3	25.35	31.074	
4,655.0	4,575.1	4,617.8	4,561.4	16.9	16.4	-134.22	498.6	-282.4	798.3	772.6	25.68	31.087	
4,700.0	4,618.8	4,668.8	4,612.3	17.1	16.5	-134.78	499.7	-282.9	806.6	780.7	25.94	31.100	
4,750.0	4,667.3	4,723.6	4,667.2	17.4	16.6	-135.43	500.0	-283.1	815.5	789.3	26.18	31.153	
4,755.7	4,672.8	4,729.1	4,672.7	17.4	16.6	-135.50	500.0	-283.1	816.5	790.3	26.20	31.163	
4,800.0	4,715.9	4,772.2	4,715.8	17.6	16.6	-136.10	500.0	-283.1	824.0	797.6	26.38	31.242	
4,845.0	4,759.8	4,816.1	4,759.7	17.8	16.7	-136.67	500.0	-283.1	831.2	804.7	26.57	31.280	
4,900.0	4,813.6	4,870.0	4,813.5	18.1	16.7	-137.30	500.0	-283.1	839.4	812.6	26.82	31.294	
4,940.0	4,852.9	4,909.3	4,852.8	18.3	16.7	-137.71	500.0	-283.1	845.0	818.0	27.00	31.294	
5,000.0	4,912.1	4,968.4	4,912.0	18.5	16.7	-138.27	500.0	-283.1	852.6	825.3	27.27	31.265	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #805H - OWB - PWP1													Offset Site Error: 0.0 usft	
Survey Program: Reference		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9240-r.5 MWD+IFR1+MS					Rule Assigned:		Offset Well Error: 3.0 usft					
Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Warning						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,035.0	4,946.7	5,003.0	4,946.6	18.7	16.8	-138.56	500.0	-283.1	856.6	829.1	27.42	31.240		
5,100.0	5,011.1	5,067.4	5,011.0	19.0	16.8	-139.03	500.0	-283.1	863.2	835.5	27.70	31.163		
5,130.0	5,040.9	5,097.2	5,040.8	19.1	16.8	-139.22	500.0	-283.1	865.9	838.1	27.82	31.122		
5,200.0	5,110.5	5,166.8	5,110.4	19.4	16.9	-139.60	500.0	-283.1	871.3	843.2	28.11	30.995		
5,225.0	5,135.4	5,191.8	5,135.3	19.5	16.9	-139.71	500.0	-283.1	872.9	844.7	28.21	30.947		
5,300.0	5,210.2	5,266.6	5,210.1	19.8	16.9	-139.97	500.0	-283.1	876.8	848.3	28.49	30.771		
5,320.0	5,230.2	5,286.6	5,230.1	19.9	16.9	-140.02	500.0	-283.1	877.6	849.0	28.56	30.725		
5,400.0	5,310.2	5,366.5	5,310.1	20.1	17.0	-140.16	500.0	-283.1	879.6	850.8	28.83	30.508		
5,415.0	5,325.1	5,381.5	5,325.0	20.1	17.0	-140.18	500.0	-283.1	879.8	851.0	28.86	30.485		
5,455.9	5,366.0	5,422.4	5,365.9	20.2	17.0	-91.02	500.0	-283.1	880.0	851.1	28.94	30.412		
5,500.0	5,410.1	5,466.5	5,410.0	20.2	17.0	-91.02	500.0	-283.1	880.0	851.1	28.98	30.366		
5,510.0	5,420.1	5,476.5	5,420.0	20.2	17.0	-91.02	500.0	-283.1	880.0	851.0	28.99	30.352		
5,600.0	5,510.1	5,566.5	5,510.0	20.3	17.1	-91.02	500.0	-283.1	880.0	850.9	29.11	30.233		
5,605.0	5,515.1	5,571.5	5,515.0	20.3	17.1	-91.02	500.0	-283.1	880.0	850.9	29.12	30.226		
5,700.0	5,610.1	5,666.5	5,610.0	20.3	17.1	-91.02	500.0	-283.1	880.0	850.8	29.24	30.101		
5,795.0	5,705.1	5,761.5	5,705.0	20.3	17.2	-91.02	500.0	-283.1	880.0	850.7	29.36	29.976		
5,800.0	5,710.1	5,766.5	5,710.0	20.3	17.2	-91.02	500.0	-283.1	880.0	850.7	29.36	29.969		
5,890.0	5,800.1	5,856.5	5,800.0	20.4	17.2	-91.02	500.0	-283.1	880.0	850.6	29.48	29.852		
5,900.0	5,810.1	5,866.5	5,810.0	20.4	17.2	-91.02	500.0	-283.1	880.0	850.5	29.49	29.839		
5,985.0	5,895.1	5,951.5	5,895.0	20.4	17.3	-91.02	500.0	-283.1	880.0	850.4	29.60	29.729		
6,000.0	5,910.1	5,966.5	5,910.0	20.4	17.3	-91.02	500.0	-283.1	880.0	850.4	29.62	29.710		
6,080.0	5,990.1	6,046.5	5,990.0	20.5	17.3	-91.02	500.0	-283.1	880.0	850.3	29.72	29.606		
6,100.0	6,010.1	6,066.5	6,010.0	20.5	17.4	-91.02	500.0	-283.1	880.0	850.3	29.75	29.581		
6,175.0	6,085.1	6,141.5	6,085.0	20.5	17.4	-91.02	500.0	-283.1	880.0	850.2	29.85	29.485		
6,200.0	6,110.1	6,166.5	6,110.0	20.5	17.4	-91.02	500.0	-283.1	880.0	850.2	29.88	29.453		
6,270.0	6,180.1	6,236.5	6,180.0	20.6	17.5	-91.02	500.0	-283.1	880.0	850.1	29.97	29.364		
6,300.0	6,210.1	6,266.5	6,210.0	20.6	17.5	-91.02	500.0	-283.1	880.0	850.0	30.01	29.326		
6,365.0	6,275.1	6,331.5	6,275.0	20.6	17.5	-91.02	500.0	-283.1	880.0	849.9	30.09	29.244		
6,400.0	6,310.1	6,366.5	6,310.0	20.6	17.5	-91.02	500.0	-283.1	880.0	849.9	30.14	29.200		
6,460.0	6,370.1	6,426.5	6,370.0	20.6	17.6	-91.02	500.0	-283.1	880.0	849.8	30.22	29.124		
6,500.0	6,410.1	6,466.5	6,410.0	20.7	17.6	-91.02	500.0	-283.1	880.0	849.8	30.27	29.074		
6,555.0	6,465.1	6,521.5	6,465.0	20.7	17.6	-91.02	500.0	-283.1	880.0	849.7	30.34	29.006		
6,600.0	6,510.1	6,566.5	6,510.0	20.7	17.7	-91.02	500.0	-283.1	880.0	849.6	30.40	28.950		
6,650.0	6,560.1	6,616.5	6,560.0	20.7	17.7	-91.02	500.0	-283.1	880.0	849.6	30.46	28.888		
6,700.0	6,610.1	6,666.5	6,610.0	20.8	17.7	-91.02	500.0	-283.1	880.0	849.5	30.53	28.826		
6,745.0	6,655.1	6,711.5	6,655.0	20.8	17.7	-91.02	500.0	-283.1	880.0	849.5	30.59	28.771		
6,800.0	6,710.1	6,766.5	6,710.0	20.8	17.8	-91.02	500.0	-283.1	880.0	849.4	30.66	28.703		
6,840.0	6,750.1	6,806.5	6,750.0	20.8	17.8	-91.02	500.0	-283.1	880.0	849.3	30.71	28.654		
6,900.0	6,810.1	6,866.5	6,810.0	20.9	17.8	-91.02	500.0	-283.1	880.0	849.2	30.79	28.581		
6,935.0	6,845.1	6,901.5	6,845.0	20.9	17.8	-91.02	500.0	-283.1	880.0	849.2	30.84	28.538		
7,000.0	6,910.1	6,966.5	6,910.0	20.9	17.9	-91.02	500.0	-283.1	880.0	849.1	30.92	28.460		
7,030.0	6,940.1	6,996.5	6,940.0	20.9	17.9	-91.02	500.0	-283.1	880.0	849.1	30.96	28.423		
7,100.0	7,010.1	7,066.5	7,010.0	20.9	17.9	-91.02	500.0	-283.1	880.0	849.0	31.05	28.339		
7,125.0	7,035.1	7,091.5	7,035.0	21.0	18.0	-91.02	500.0	-283.1	880.0	849.0	31.09	28.309		
7,200.0	7,110.1	7,166.5	7,110.0	21.0	18.0	-91.02	500.0	-283.1	880.0	848.9	31.19	28.219		
7,220.0	7,130.1	7,186.5	7,130.0	21.0	18.0	-91.02	500.0	-283.1	880.0	848.8	31.21	28.195		
7,300.0	7,210.1	7,266.5	7,210.0	21.0	18.1	-91.02	500.0	-283.1	880.0	848.7	31.32	28.100		
7,315.0	7,225.1	7,281.5	7,225.0	21.1	18.1	-91.02	500.0	-283.1	880.0	848.7	31.34	28.083		
7,400.0	7,310.1	7,366.5	7,310.0	21.1	18.1	-91.02	500.0	-283.1	880.0	848.6	31.45	27.982		
7,410.0	7,320.1	7,376.5	7,320.0	21.1	18.1	-91.02	500.0	-283.1	880.0	848.6	31.46	27.970		
7,500.0	7,410.1	7,466.5	7,410.0	21.1	18.2	-91.02	500.0	-283.1	880.0	848.5	31.58	27.865		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #805H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9240-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
7,505.0	7,415.1	7,471.5	7,415.0	21.1	18.2	-91.02	500.0	-283.1	880.0	848.4	31.59	27.859	
7,600.0	7,510.1	7,566.5	7,510.0	21.2	18.2	-91.02	500.0	-283.1	880.0	848.3	31.72	27.748	
7,695.0	7,605.1	7,661.5	7,605.0	21.2	18.3	-91.02	500.0	-283.1	880.0	848.2	31.84	27.638	
7,700.0	7,610.1	7,666.5	7,610.0	21.2	18.3	-91.02	500.0	-283.1	880.0	848.2	31.85	27.632	
7,790.0	7,700.1	7,756.5	7,700.0	21.3	18.4	-91.02	500.0	-283.1	880.0	848.1	31.97	27.528	
7,800.0	7,710.1	7,766.5	7,710.0	21.3	18.4	-91.02	500.0	-283.1	880.0	848.1	31.98	27.517	
7,885.0	7,795.1	7,851.5	7,795.0	21.3	18.4	-91.02	500.0	-283.1	880.0	847.9	32.10	27.420	
7,900.0	7,810.1	7,866.5	7,810.0	21.3	18.4	-91.02	500.0	-283.1	880.0	847.9	32.12	27.403	
7,980.0	7,890.1	7,946.5	7,890.0	21.4	18.5	-91.02	500.0	-283.1	880.0	847.8	32.22	27.312	
8,000.0	7,910.1	7,966.5	7,910.0	21.4	18.5	-91.02	500.0	-283.1	880.0	847.8	32.25	27.289	
8,075.0	7,985.1	8,041.5	7,985.0	21.4	18.5	-91.02	500.0	-283.1	880.0	847.7	32.35	27.204	
8,100.0	8,010.1	8,066.5	8,010.0	21.4	18.6	-91.02	500.0	-283.1	880.0	847.7	32.38	27.176	
8,170.0	8,080.1	8,136.5	8,080.0	21.5	18.6	-91.02	500.0	-283.1	880.0	847.6	32.48	27.097	
8,200.0	8,110.1	8,166.5	8,110.0	21.5	18.6	-91.02	500.0	-283.1	880.0	847.5	32.52	27.064	
8,265.0	8,175.1	8,231.5	8,175.0	21.5	18.7	-91.02	500.0	-283.1	880.0	847.4	32.60	26.991	
8,300.0	8,210.1	8,266.5	8,210.0	21.5	18.7	-91.02	500.0	-283.1	880.0	847.4	32.65	26.953	
8,360.0	8,270.1	8,326.5	8,270.0	21.6	18.7	-91.02	500.0	-283.1	880.0	847.3	32.73	26.886	
8,400.0	8,310.1	8,366.5	8,310.0	21.6	18.7	-91.02	500.0	-283.1	880.0	847.3	32.79	26.842	
8,455.0	8,365.1	8,421.5	8,365.0	21.6	18.8	-91.02	500.0	-283.1	880.0	847.2	32.86	26.781	
8,500.0	8,410.1	8,466.5	8,410.0	21.6	18.8	-91.02	500.0	-283.1	880.0	847.1	32.92	26.732	
8,550.0	8,460.1	8,516.5	8,460.0	21.7	18.8	-91.02	500.0	-283.1	880.0	847.0	32.99	26.677	
8,600.0	8,510.1	8,566.5	8,510.0	21.7	18.9	-91.02	500.0	-283.1	880.0	847.0	33.06	26.623	
8,645.0	8,555.1	8,611.5	8,555.0	21.7	18.9	-91.02	500.0	-283.1	880.0	846.9	33.12	26.574	
8,700.0	8,610.1	8,666.5	8,610.0	21.7	18.9	-91.02	500.0	-283.1	880.0	846.8	33.19	26.514	
8,740.0	8,650.1	8,706.5	8,650.0	21.8	18.9	-91.02	500.0	-283.1	880.0	846.8	33.25	26.471	
8,800.0	8,710.1	8,766.5	8,710.0	21.8	19.0	-91.02	500.0	-283.1	880.0	846.7	33.33	26.406	
8,835.0	8,745.1	8,801.5	8,745.0	21.8	19.0	-91.02	500.0	-283.1	880.0	846.7	33.37	26.369	
8,900.0	8,810.1	8,866.5	8,810.0	21.8	19.0	-91.02	500.0	-283.1	880.0	846.6	33.46	26.299	
8,930.0	8,840.1	8,896.5	8,840.0	21.9	19.1	-91.02	500.0	-283.1	880.0	846.5	33.50	26.267	
9,000.0	8,910.1	8,966.5	8,910.0	21.9	19.1	-91.02	500.0	-283.1	880.0	846.4	33.60	26.193	
9,025.0	8,935.1	8,991.5	8,935.0	21.9	19.1	-91.02	500.0	-283.1	880.0	846.4	33.63	26.166	
9,100.0	9,010.1	9,066.5	9,010.0	21.9	19.2	-91.02	500.0	-283.1	880.0	846.3	33.73	26.087	
9,120.0	9,030.1	9,086.5	9,030.0	22.0	19.2	-91.02	500.0	-283.1	880.0	846.3	33.76	26.066	
9,200.0	9,110.1	9,166.5	9,110.0	22.0	19.2	-91.02	500.0	-283.1	880.0	846.2	33.87	25.982	
9,215.0	9,125.1	9,181.5	9,125.0	22.0	19.2	-91.02	500.0	-283.1	880.0	846.1	33.89	25.967	
9,219.5	9,129.7	9,186.0	9,129.6	22.0	19.2	-91.02	500.0	-283.1	880.0	846.1	33.90	25.962	
9,291.9	9,202.0	9,257.7	9,201.2	22.0	19.3	-91.03	499.7	-283.1	880.0	846.1	33.96	25.915	
9,300.0	9,210.1	9,265.4	9,209.0	22.0	19.3	88.44	499.4	-283.1	880.1	846.1	33.96	25.914	
9,310.0	9,220.1	9,275.0	9,218.5	22.0	19.3	88.42	498.9	-283.1	880.1	846.1	33.96	25.912	
9,350.0	9,260.0	9,313.3	9,256.7	22.1	19.3	88.35	495.2	-283.1	880.1	846.1	33.97	25.907	
9,400.0	9,309.5	9,361.2	9,303.8	22.1	19.4	88.26	487.1	-283.2	880.1	846.2	33.97	25.908	
9,405.0	9,314.4	9,365.9	9,308.4	22.1	19.4	88.25	486.1	-283.2	880.1	846.2	33.97	25.909	
9,450.0	9,358.1	9,408.9	9,350.0	22.1	19.4	88.19	475.1	-283.3	880.2	846.2	33.96	25.915	
9,500.0	9,405.6	9,456.5	9,394.9	22.2	19.5	88.13	459.4	-283.5	880.2	846.2	33.95	25.926	
9,550.0	9,451.5	9,504.1	9,438.3	22.2	19.6	88.09	440.0	-283.6	880.2	846.3	33.93	25.942	
9,595.0	9,491.2	9,546.9	9,475.9	22.2	19.6	88.06	419.5	-283.8	880.2	846.3	33.91	25.959	
9,600.0	9,495.5	9,551.6	9,480.0	22.2	19.6	88.06	417.1	-283.8	880.2	846.3	33.91	25.961	
9,650.0	9,537.3	9,600.0	9,520.2	22.3	19.7	88.04	390.3	-284.1	880.2	846.4	33.88	25.979	
9,650.8	9,537.9	9,600.0	9,520.2	22.3	19.7	88.04	390.3	-284.1	880.2	846.4	33.88	25.981	
9,690.0	9,568.9	9,637.2	9,549.5	22.3	19.7	88.04	367.5	-284.3	880.2	846.4	33.86	25.995	
9,700.0	9,576.5	9,646.7	9,556.8	22.3	19.7	88.04	361.3	-284.3	880.2	846.4	33.86	25.999	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #805H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9240-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Offset	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)	
9,750.0	9,612.9	9,694.2	9,591.5	22.4	19.8	88.06	328.9	-284.6	880.2	846.4	33.84	26.015
9,785.0	9,636.5	9,727.4	9,614.1	22.4	19.8	88.07	304.5	-284.8	880.2	846.4	33.82	26.023
9,800.0	9,646.1	9,741.7	9,623.4	22.4	19.8	88.08	293.6	-284.9	880.2	846.4	33.82	26.027
9,850.0	9,676.0	9,789.3	9,652.3	22.4	19.9	88.12	255.9	-285.3	880.2	846.4	33.81	26.032
9,880.0	9,692.2	9,817.9	9,668.1	22.5	19.9	88.15	232.1	-285.5	880.2	846.4	33.81	26.030
9,900.0	9,702.2	9,836.9	9,677.9	22.5	19.9	88.18	215.8	-285.6	880.2	846.4	33.82	26.028
9,950.0	9,724.7	9,884.6	9,700.2	22.5	20.0	88.24	173.6	-286.0	880.1	846.3	33.83	26.015
9,975.0	9,734.4	9,908.5	9,710.1	22.5	20.0	88.28	151.9	-286.2	880.1	846.3	33.85	26.004
10,000.0	9,743.2	9,932.4	9,719.0	22.6	20.0	88.32	129.7	-286.4	880.1	846.2	33.86	25.991
10,050.0	9,757.5	9,980.3	9,734.0	22.6	20.1	88.42	84.2	-286.8	880.1	846.2	33.91	25.955
10,070.0	9,762.1	10,000.0	9,739.1	22.6	20.1	88.46	65.2	-287.0	880.1	846.1	33.93	25.936
10,100.0	9,767.6	10,028.3	9,745.2	22.7	20.1	88.52	37.6	-287.2	880.0	846.1	33.97	25.906
10,150.0	9,773.5	10,076.4	9,752.5	22.7	20.1	88.64	-10.0	-287.6	880.0	845.9	34.05	25.844
10,165.0	9,774.4	10,090.9	9,753.9	22.7	20.1	88.67	-24.4	-287.8	880.0	845.9	34.08	25.823
10,191.6	9,775.0	10,116.6	9,755.5	22.7	20.1	88.74	-50.0	-288.0	879.9	845.8	34.13	25.784
10,200.0	9,775.0	10,124.7	9,755.8	22.7	20.1	88.76	-58.1	-288.1	879.9	845.8	34.14	25.771
10,214.8	9,775.0	10,139.0	9,756.0	22.7	20.2	88.77	-72.5	-288.2	879.9	845.8	34.18	25.745
10,260.0	9,775.0	10,184.2	9,756.0	22.8	20.2	88.77	-117.6	-288.6	879.9	845.6	34.30	25.655
10,300.0	9,775.1	10,224.2	9,756.1	22.8	20.2	88.77	-157.6	-288.9	879.9	845.5	34.41	25.569
10,355.0	9,775.1	10,279.2	9,756.1	22.9	20.2	88.77	-212.6	-289.4	879.9	845.3	34.60	25.432
10,400.0	9,775.1	10,324.2	9,756.1	22.9	20.2	88.77	-257.6	-289.8	879.9	845.2	34.76	25.314
10,450.0	9,775.1	10,374.2	9,756.2	23.0	20.3	88.77	-307.6	-290.3	879.9	845.0	34.96	25.169
10,500.0	9,775.2	10,424.2	9,756.2	23.1	20.3	88.77	-357.6	-290.7	879.9	844.8	35.17	25.020
10,545.0	9,775.2	10,469.2	9,756.3	23.1	20.3	88.77	-402.6	-291.1	879.9	844.6	35.38	24.873
10,600.0	9,775.2	10,524.2	9,756.3	23.2	20.4	88.78	-457.6	-291.6	879.9	844.3	35.64	24.690
10,640.0	9,775.2	10,564.2	9,756.3	23.3	20.4	88.78	-497.6	-292.0	879.9	844.1	35.85	24.546
10,700.0	9,775.3	10,624.2	9,756.4	23.4	20.4	88.78	-557.6	-292.5	879.9	843.8	36.17	24.328
10,735.0	9,775.3	10,659.2	9,756.4	23.4	20.5	88.78	-592.6	-292.8	879.9	843.6	36.37	24.193
10,800.0	9,775.3	10,724.2	9,756.5	23.5	20.5	88.78	-657.6	-293.4	879.9	843.2	36.76	23.940
10,830.0	9,775.3	10,754.2	9,756.5	23.6	20.5	88.78	-687.6	-293.6	879.9	843.0	36.95	23.817
10,900.0	9,775.4	10,824.2	9,756.5	23.7	20.6	88.78	-757.6	-294.3	879.9	842.5	37.39	23.531
10,925.0	9,775.4	10,849.2	9,756.6	23.8	20.6	88.78	-782.6	-294.5	879.9	842.4	37.57	23.424
11,000.0	9,775.4	10,924.2	9,756.6	23.9	20.7	88.78	-857.6	-295.1	879.9	841.9	38.08	23.105
11,020.0	9,775.4	10,944.2	9,756.6	24.0	20.8	88.78	-877.6	-295.3	879.9	841.7	38.23	23.016
11,100.0	9,775.5	11,024.2	9,756.7	24.1	20.9	88.78	-957.6	-296.0	879.9	841.1	38.82	22.665
11,115.0	9,775.5	11,039.2	9,756.7	24.2	20.9	88.78	-972.6	-296.2	879.9	841.0	38.94	22.598
11,200.0	9,775.5	11,124.2	9,756.8	24.4	21.0	88.79	-1,057.6	-296.9	879.9	840.3	39.61	22.217
11,210.0	9,775.5	11,134.2	9,756.8	24.4	21.0	88.79	-1,067.6	-297.0	879.9	840.3	39.69	22.171
11,300.0	9,775.6	11,224.2	9,756.9	24.6	21.2	88.79	-1,157.6	-297.8	879.9	839.5	40.43	21.763
11,305.0	9,775.6	11,229.2	9,756.9	24.6	21.2	88.79	-1,162.6	-297.9	879.9	839.5	40.48	21.740
11,400.0	9,775.6	11,324.2	9,756.9	24.9	21.4	88.79	-1,257.6	-298.7	879.9	838.6	41.30	21.307
11,495.0	9,775.7	11,419.2	9,757.0	25.2	21.6	88.79	-1,352.6	-299.5	879.9	837.8	42.16	20.874
11,500.0	9,775.7	11,424.2	9,757.0	25.2	21.6	88.79	-1,357.6	-299.6	879.9	837.7	42.20	20.851
11,590.0	9,775.7	11,514.2	9,757.1	25.5	21.9	88.79	-1,447.6	-300.4	879.9	836.9	43.05	20.442
11,600.0	9,775.7	11,524.2	9,757.1	25.5	21.9	88.79	-1,457.6	-300.5	879.9	836.8	43.14	20.397
11,685.0	9,775.8	11,609.2	9,757.2	25.8	22.2	88.79	-1,542.6	-301.2	879.9	836.0	43.96	20.015
11,700.0	9,775.8	11,624.2	9,757.2	25.8	22.2	88.79	-1,557.6	-301.4	879.9	835.8	44.11	19.948
11,780.0	9,775.8	11,704.2	9,757.2	26.1	22.5	88.80	-1,637.6	-302.1	879.9	835.0	44.91	19.593
11,800.0	9,775.8	11,724.2	9,757.3	26.2	22.5	88.80	-1,657.6	-302.2	879.9	834.8	45.11	19.505
11,875.0	9,775.9	11,799.2	9,757.3	26.5	22.8	88.80	-1,732.6	-302.9	879.9	834.1	45.88	19.177
11,900.0	9,775.9	11,824.2	9,757.3	26.6	22.9	88.80	-1,757.6	-303.1	879.9	833.8	46.14	19.069

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #805H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9240-r.5 MWD+IFR1+MS						Rule Assigned:				Offset Well Error:	3.0 usft	
Reference	Offset	Semi Major Axis		Offset Wellbore Centre			Distance			Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
11,970.0	9,775.9	11,894.2	9,757.4	26.8	23.2	88.80	-1,827.6	-303.8	880.0	833.1	46.88	18.769		
12,000.0	9,776.0	11,924.2	9,757.4	26.9	23.3	88.80	-1,857.6	-304.0	880.0	832.7	47.20	18.642		
12,065.0	9,776.0	11,989.2	9,757.5	27.2	23.6	88.80	-1,922.6	-304.6	880.0	832.0	47.90	18.369		
12,100.0	9,776.0	12,024.2	9,757.5	27.4	23.8	88.80	-1,957.6	-304.9	880.0	831.7	48.29	18.224		
12,160.0	9,776.0	12,084.2	9,757.5	27.6	24.0	88.80	-2,017.6	-305.4	880.0	831.0	48.95	17.978		
12,200.0	9,776.1	12,124.2	9,757.6	27.8	24.2	88.80	-2,057.6	-305.8	880.0	830.6	49.39	17.816		
12,255.0	9,776.1	12,179.2	9,757.6	28.0	24.5	88.80	-2,112.6	-306.3	880.0	829.9	50.01	17.595		
12,300.0	9,776.1	12,224.2	9,757.7	28.2	24.7	88.80	-2,157.6	-306.7	880.0	829.4	50.52	17.418		
12,350.0	9,776.1	12,274.2	9,757.7	28.4	25.0	88.81	-2,207.6	-307.1	880.0	828.9	51.09	17.223		
12,400.0	9,776.2	12,324.2	9,757.7	28.7	25.2	88.81	-2,257.6	-307.6	880.0	828.3	51.67	17.031		
12,445.0	9,776.2	12,369.2	9,757.8	28.9	25.5	88.81	-2,302.6	-308.0	880.0	827.8	52.19	16.860		
12,500.0	9,776.2	12,424.2	9,757.8	29.2	25.8	88.81	-2,357.6	-308.5	880.0	827.1	52.83	16.655		
12,540.0	9,776.2	12,464.2	9,757.8	29.3	26.0	88.81	-2,397.6	-308.8	880.0	826.6	53.31	16.507		
12,600.0	9,776.3	12,524.2	9,757.9	29.6	26.3	88.81	-2,457.6	-309.3	880.0	825.9	54.02	16.289		
12,635.0	9,776.3	12,559.2	9,757.9	29.8	26.5	88.81	-2,492.6	-309.7	880.0	825.5	54.44	16.164		
12,700.0	9,776.3	12,624.2	9,758.0	30.1	26.9	88.81	-2,557.6	-310.2	880.0	824.7	55.22	15.935		
12,730.0	9,776.3	12,654.2	9,758.0	30.3	27.1	88.81	-2,587.6	-310.5	880.0	824.4	55.59	15.830		
12,800.0	9,776.4	12,724.2	9,758.0	30.7	27.5	88.81	-2,657.5	-311.1	880.0	823.5	56.44	15.591		
12,825.0	9,776.4	12,749.2	9,758.1	30.8	27.6	88.81	-2,682.5	-311.3	880.0	823.2	56.75	15.507		
12,900.0	9,776.4	12,824.2	9,758.1	31.2	28.1	88.81	-2,757.5	-312.0	880.0	822.3	57.67	15.258		
12,920.0	9,776.4	12,844.2	9,758.1	31.3	28.2	88.82	-2,777.5	-312.2	880.0	822.0	57.92	15.192		
13,000.0	9,776.5	12,924.2	9,758.2	31.7	28.7	88.82	-2,857.5	-312.9	880.0	821.0	58.92	14.935		
13,015.0	9,776.5	12,939.2	9,758.2	31.8	28.8	88.82	-2,872.5	-313.0	880.0	820.9	59.11	14.888		
13,100.0	9,776.5	13,024.2	9,758.3	32.3	29.3	88.82	-2,957.5	-313.8	880.0	819.8	60.18	14.623		
13,110.0	9,776.5	13,034.2	9,758.3	32.3	29.4	88.82	-2,967.5	-313.9	880.0	819.7	60.30	14.592		
13,200.0	9,776.6	13,124.2	9,758.4	32.8	29.9	88.82	-3,057.5	-314.7	880.0	818.5	61.45	14.320		
13,205.0	9,776.6	13,129.2	9,758.4	32.9	30.0	88.82	-3,062.5	-314.7	880.0	818.4	61.51	14.305		
13,300.0	9,776.6	13,224.2	9,758.4	33.4	30.6	88.82	-3,157.5	-315.6	880.0	817.2	62.73	14.028		
13,395.0	9,776.7	13,319.2	9,758.5	34.0	31.2	88.82	-3,252.5	-316.4	880.0	816.0	63.96	13.758		
13,400.0	9,776.7	13,324.2	9,758.5	34.0	31.2	88.82	-3,257.5	-316.4	880.0	815.9	64.02	13.744		
13,490.0	9,776.7	13,414.2	9,758.6	34.5	31.8	88.82	-3,347.5	-317.2	880.0	814.8	65.20	13.497		
13,500.0	9,776.7	13,424.2	9,758.6	34.6	31.9	88.83	-3,357.5	-317.3	880.0	814.6	65.33	13.470		
13,585.0	9,776.8	13,509.2	9,758.7	35.1	32.4	88.83	-3,442.5	-318.1	880.0	813.5	66.44	13.244		
13,600.0	9,776.8	13,524.2	9,758.7	35.2	32.5	88.83	-3,457.5	-318.2	880.0	813.3	66.64	13.205		
13,680.0	9,776.8	13,604.2	9,758.7	35.7	33.0	88.83	-3,537.5	-318.9	880.0	812.3	67.70	12.999		
13,700.0	9,776.9	13,624.2	9,758.8	35.8	33.2	88.83	-3,557.5	-319.1	880.0	812.0	67.96	12.948		
13,775.0	9,776.9	13,699.2	9,758.8	36.2	33.7	88.83	-3,632.5	-319.8	880.0	811.0	68.96	12.761		
13,800.0	9,776.9	13,724.2	9,758.8	36.4	33.8	88.83	-3,657.5	-320.0	880.0	810.7	69.29	12.699		
13,870.0	9,776.9	13,794.2	9,758.9	36.8	34.3	88.83	-3,727.5	-320.6	880.0	809.7	70.23	12.530		
13,900.0	9,777.0	13,824.2	9,758.9	37.0	34.5	88.83	-3,757.5	-320.9	880.0	809.3	70.63	12.459		
13,965.0	9,777.0	13,889.2	9,759.0	37.4	35.0	88.83	-3,822.5	-321.5	880.0	808.5	71.50	12.306		
14,000.0	9,777.0	13,924.2	9,759.0	37.6	35.2	88.83	-3,857.5	-321.8	880.0	808.0	71.98	12.226		
14,060.0	9,777.0	13,984.2	9,759.0	38.0	35.6	88.83	-3,917.5	-322.3	880.0	807.2	72.79	12.090		
14,100.0	9,777.1	14,024.2	9,759.1	38.3	35.9	88.84	-3,957.5	-322.6	880.0	806.6	73.33	12.000		
14,155.0	9,777.1	14,079.2	9,759.1	38.6	36.3	88.84	-4,012.5	-323.1	880.0	805.9	74.08	11.879		
14,200.0	9,777.1	14,124.2	9,759.2	38.9	36.6	88.84	-4,057.5	-323.5	880.0	805.3	74.69	11.782		
14,250.0	9,777.1	14,174.2	9,759.2	39.2	36.9	88.84	-4,107.5	-324.0	880.0	804.6	75.37	11.675		
14,300.0	9,777.2	14,224.2	9,759.2	39.5	37.3	88.84	-4,157.5	-324.4	880.0	803.9	76.05	11.570		
14,345.0	9,777.2	14,269.2	9,759.3	39.8	37.6	88.84	-4,202.5	-324.8	880.0	803.3	76.67	11.477		
14,400.0	9,777.2	14,324.2	9,759.3	40.2	38.0	88.84	-4,257.5	-325.3	880.0	802.5	77.43	11.365		
14,440.0	9,777.2	14,364.2	9,759.3	40.4	38.2	88.84	-4,297.5	-325.7	880.0	802.0	77.98	11.285		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #805H - OWB - PWP1													Offset Site Error: 0.0 usft	
Survey Program: Reference		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9240-r.5 MWD+IFR1+MS						Rule Assigned:					Offset Well Error: 3.0 usft	
Offset		Semi Major Axis		Offset Wellbore Centre			Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
14,500.0	9,777.3	14,424.2	9,759.4	40.8	38.6	88.84	-4,357.5	-326.2	880.0	801.2	78.80	11.167		
14,535.0	9,777.3	14,459.2	9,759.4	41.1	38.9	88.84	-4,392.5	-326.5	880.0	800.7	79.29	11.099		
14,600.0	9,777.3	14,524.2	9,759.5	41.5	39.3	88.84	-4,457.5	-327.1	880.0	799.8	80.19	10.974		
14,630.0	9,777.3	14,554.2	9,759.5	41.7	39.6	88.84	-4,487.5	-327.4	880.0	799.4	80.60	10.917		
14,700.0	9,777.4	14,624.2	9,759.6	42.2	40.0	88.85	-4,557.5	-328.0	880.0	798.4	81.57	10.787		
14,725.0	9,777.4	14,649.2	9,759.6	42.3	40.2	88.85	-4,582.5	-328.2	880.0	798.0	81.92	10.742		
14,800.0	9,777.4	14,724.2	9,759.6	42.8	40.8	88.85	-4,657.5	-328.9	880.0	797.0	82.97	10.606		
14,820.0	9,777.4	14,744.2	9,759.6	42.9	40.9	88.85	-4,677.5	-329.0	880.0	796.7	83.25	10.571		
14,900.0	9,777.5	14,824.2	9,759.7	43.5	41.5	88.85	-4,757.5	-329.7	880.0	795.6	84.36	10.431		
14,915.0	9,777.5	14,839.2	9,759.7	43.6	41.6	88.85	-4,772.5	-329.9	880.0	795.4	84.58	10.405		
15,000.0	9,777.5	14,924.2	9,759.8	44.2	42.2	88.85	-4,857.5	-330.6	880.0	794.2	85.77	10.260		
15,010.0	9,777.5	14,934.2	9,759.8	44.2	42.2	88.85	-4,867.5	-330.7	880.0	794.1	85.91	10.243		
15,100.0	9,777.6	15,024.2	9,759.9	44.8	42.9	88.85	-4,957.5	-331.5	880.0	792.8	87.17	10.095		
15,105.0	9,777.6	15,029.2	9,759.9	44.9	42.9	88.85	-4,962.5	-331.6	880.0	792.7	87.24	10.086		
15,200.0	9,777.6	15,124.2	9,759.9	45.5	43.6	88.85	-5,057.5	-332.4	880.0	791.4	88.58	9.934		
15,295.0	9,777.7	15,219.2	9,760.0	46.2	44.3	88.86	-5,152.4	-333.3	880.0	790.0	89.93	9.785		
15,300.0	9,777.7	15,224.2	9,760.0	46.2	44.3	88.86	-5,157.4	-333.3	880.0	790.0	90.00	9.778		
15,390.0	9,777.7	15,314.2	9,760.1	46.8	44.9	88.86	-5,247.4	-334.1	880.0	788.7	91.27	9.641		
15,400.0	9,777.7	15,324.2	9,760.1	46.9	45.0	88.86	-5,257.4	-334.2	880.0	788.6	91.42	9.626		
15,485.0	9,777.8	15,409.2	9,760.2	47.5	45.6	88.86	-5,342.4	-334.9	880.0	787.4	92.62	9.501		
15,500.0	9,777.8	15,424.2	9,760.2	47.6	45.7	88.86	-5,357.4	-335.1	880.0	787.1	92.84	9.479		
15,580.0	9,777.8	15,504.2	9,760.3	48.1	46.3	88.86	-5,437.4	-335.8	880.0	786.0	93.98	9.364		
15,600.0	9,777.9	15,524.2	9,760.3	48.2	46.5	88.86	-5,457.4	-336.0	880.0	785.7	94.26	9.335		
15,675.0	9,777.9	15,599.2	9,760.3	48.8	47.0	88.86	-5,532.4	-336.6	880.0	784.6	95.33	9.231		
15,700.0	9,777.9	15,624.2	9,760.3	48.9	47.2	88.86	-5,557.4	-336.8	880.0	784.3	95.69	9.196		
15,770.0	9,777.9	15,694.2	9,760.4	49.4	47.7	88.86	-5,627.4	-337.5	880.0	783.3	96.69	9.101		
15,800.0	9,778.0	15,724.2	9,760.4	49.6	47.9	88.86	-5,657.4	-337.7	880.0	782.9	97.12	9.061		
15,865.0	9,778.0	15,789.2	9,760.5	50.1	48.4	88.87	-5,722.4	-338.3	880.0	781.9	98.05	8.975		
15,900.0	9,778.0	15,824.2	9,760.5	50.3	48.6	88.87	-5,757.4	-338.6	880.0	781.4	98.55	8.929		
15,960.0	9,778.0	15,884.2	9,760.6	50.8	49.1	88.87	-5,817.4	-339.2	880.0	780.6	99.42	8.852		
16,000.0	9,778.1	15,924.2	9,760.6	51.0	49.3	88.87	-5,857.4	-339.5	880.0	780.0	99.99	8.801		
16,055.0	9,778.1	15,979.2	9,760.6	51.4	49.7	88.87	-5,912.4	-340.0	880.0	779.2	100.78	8.732		
16,100.0	9,778.1	16,024.2	9,760.7	51.7	50.1	88.87	-5,957.4	-340.4	880.0	778.6	101.43	8.676		
16,150.0	9,778.1	16,074.2	9,760.7	52.1	50.4	88.87	-6,007.4	-340.8	880.0	777.8	102.15	8.615		
16,200.0	9,778.2	16,124.2	9,760.7	52.4	50.8	88.87	-6,057.4	-341.3	880.0	777.1	102.87	8.554		
16,245.0	9,778.2	16,169.2	9,760.8	52.8	51.1	88.87	-6,102.4	-341.7	880.0	776.5	103.52	8.500		
16,300.0	9,778.2	16,224.2	9,760.8	53.1	51.5	88.87	-6,157.4	-342.2	880.0	775.7	104.32	8.436		
16,340.0	9,778.2	16,264.2	9,760.9	53.4	51.8	88.87	-6,197.4	-342.5	880.0	775.1	104.89	8.389		
16,400.0	9,778.3	16,324.2	9,760.9	53.8	52.3	88.88	-6,257.4	-343.1	880.0	774.2	105.76	8.320		
16,435.0	9,778.3	16,359.2	9,760.9	54.1	52.5	88.88	-6,292.4	-343.4	880.0	773.7	106.27	8.281		
16,500.0	9,778.3	16,424.2	9,761.0	54.6	53.0	88.88	-6,357.4	-343.9	880.0	772.8	107.21	8.208		
16,530.0	9,778.3	16,454.2	9,761.0	54.8	53.2	88.88	-6,387.4	-344.2	880.0	772.3	107.65	8.175		
16,600.0	9,778.4	16,524.2	9,761.1	55.3	53.7	88.88	-6,457.4	-344.8	880.0	771.3	108.66	8.098		
16,625.0	9,778.4	16,549.2	9,761.1	55.4	53.9	88.88	-6,482.4	-345.1	880.0	771.0	109.03	8.071		
16,700.0	9,778.4	16,624.2	9,761.1	56.0	54.5	88.88	-6,557.4	-345.7	880.0	769.9	110.11	7.992		
16,720.0	9,778.4	16,644.2	9,761.2	56.1	54.6	88.88	-6,577.4	-345.9	880.0	769.6	110.41	7.970		
16,800.0	9,778.5	16,724.2	9,761.2	56.7	55.2	88.88	-6,657.4	-346.6	880.0	768.4	111.57	7.887		
16,815.0	9,778.5	16,739.2	9,761.2	56.8	55.3	88.88	-6,672.4	-346.7	880.0	768.2	111.79	7.872		
16,900.0	9,778.5	16,824.2	9,761.3	57.4	55.9	88.88	-6,757.4	-347.5	880.0	767.0	113.03	7.786		
16,910.0	9,778.5	16,834.2	9,761.3	57.5	56.0	88.88	-6,767.4	-347.6	880.0	766.8	113.17	7.776		
17,000.0	9,778.6	16,924.2	9,761.4	58.1	56.7	88.89	-6,857.4	-348.4	880.0	765.5	114.49	7.686		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #805H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9240-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Offset	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)		
17,005.0	9,778.6	16,929.2	9,761.4	58.2	56.7	88.89	-6,862.4	-348.4	880.0	765.4	114.56	7.682
17,100.0	9,778.6	17,024.2	9,761.5	58.8	57.4	88.89	-6,957.4	-349.3	880.0	764.0	115.95	7.590
17,195.0	9,778.7	17,119.2	9,761.5	59.5	58.1	88.89	-7,052.4	-350.1	880.0	762.7	117.34	7.500
17,200.0	9,778.7	17,124.2	9,761.5	59.6	58.1	88.89	-7,057.4	-350.2	880.0	762.6	117.41	7.495
17,290.0	9,778.7	17,214.2	9,761.6	60.2	58.8	88.89	-7,147.4	-351.0	880.0	761.3	118.73	7.412
17,300.0	9,778.7	17,224.2	9,761.6	60.3	58.9	88.89	-7,157.4	-351.0	880.0	761.1	118.87	7.403
17,385.0	9,778.8	17,309.2	9,761.7	60.9	59.5	88.89	-7,242.4	-351.8	880.0	759.9	120.12	7.326
17,400.0	9,778.8	17,324.2	9,761.7	61.0	59.6	88.89	-7,257.4	-351.9	880.0	759.7	120.34	7.313
17,480.0	9,778.8	17,404.2	9,761.8	61.6	60.2	88.89	-7,337.4	-352.6	880.0	758.5	121.51	7.242
17,500.0	9,778.9	17,424.2	9,761.8	61.7	60.3	88.89	-7,357.4	-352.8	880.0	758.2	121.81	7.225
17,575.0	9,778.9	17,499.2	9,761.8	62.3	60.9	88.90	-7,432.4	-353.5	880.0	757.1	122.91	7.160
17,600.0	9,778.9	17,524.2	9,761.9	62.4	61.1	88.90	-7,457.4	-353.7	880.0	756.7	123.27	7.139
17,670.0	9,778.9	17,594.2	9,761.9	62.9	61.6	88.90	-7,527.4	-354.3	880.0	755.7	124.30	7.079
17,700.0	9,779.0	17,624.2	9,761.9	63.2	61.8	88.90	-7,557.4	-354.6	880.0	755.2	124.74	7.054
17,765.0	9,779.0	17,689.2	9,762.0	63.6	62.3	88.90	-7,622.4	-355.2	880.0	754.3	125.70	7.001
17,800.0	9,779.0	17,724.2	9,762.0	63.9	62.6	88.90	-7,657.3	-355.5	880.0	753.8	126.22	6.972
17,860.0	9,779.0	17,784.2	9,762.1	64.3	63.0	88.90	-7,717.3	-356.0	880.0	752.9	127.10	6.924
17,900.0	9,779.1	17,824.2	9,762.1	64.6	63.3	88.90	-7,757.3	-356.4	880.0	752.3	127.69	6.892
17,955.0	9,779.1	17,879.2	9,762.1	65.0	63.7	88.90	-7,812.3	-356.9	880.0	751.5	128.50	6.848
18,000.0	9,779.1	17,924.2	9,762.2	65.3	64.1	88.90	-7,857.3	-357.3	880.0	750.8	129.16	6.813
18,050.0	9,779.1	17,974.2	9,762.2	65.7	64.4	88.90	-7,907.3	-357.7	880.0	750.1	129.90	6.774
18,100.0	9,779.2	18,024.2	9,762.2	66.1	64.8	88.90	-7,957.3	-358.1	880.0	749.4	130.64	6.736
18,145.0	9,779.2	18,069.2	9,762.3	66.4	65.1	88.91	-8,002.3	-358.5	880.0	748.7	131.30	6.702
18,200.0	9,779.2	18,124.2	9,762.3	66.8	65.5	88.91	-8,057.3	-359.0	880.0	747.9	132.11	6.661
18,240.0	9,779.2	18,164.2	9,762.4	67.1	65.8	88.91	-8,097.3	-359.4	880.0	747.3	132.70	6.631
18,300.0	9,779.3	18,224.2	9,762.4	67.5	66.3	88.91	-8,157.3	-359.9	880.0	746.4	133.59	6.587
18,335.0	9,779.3	18,259.2	9,762.4	67.8	66.5	88.91	-8,192.3	-360.2	880.0	745.9	134.11	6.562
18,400.0	9,779.3	18,324.2	9,762.5	68.3	67.0	88.91	-8,257.3	-360.8	880.0	744.9	135.07	6.515
18,430.0	9,779.3	18,354.2	9,762.5	68.5	67.2	88.91	-8,287.3	-361.1	880.0	744.5	135.51	6.494
18,500.0	9,779.4	18,424.2	9,762.6	69.0	67.8	88.91	-8,357.3	-361.7	880.0	743.4	136.55	6.445
18,525.0	9,779.4	18,449.2	9,762.6	69.2	68.0	88.91	-8,382.3	-361.9	880.0	743.1	136.92	6.427
18,600.0	9,779.4	18,524.2	9,762.6	69.7	68.5	88.91	-8,457.3	-362.6	880.0	742.0	138.03	6.375
18,620.0	9,779.4	18,544.2	9,762.7	69.9	68.7	88.91	-8,477.3	-362.8	880.0	741.7	138.33	6.362
18,700.0	9,779.5	18,624.2	9,762.7	70.4	69.3	88.91	-8,557.3	-363.5	880.0	740.5	139.51	6.308
18,715.0	9,779.5	18,639.2	9,762.7	70.6	69.4	88.92	-8,572.3	-363.6	880.0	740.3	139.73	6.298
18,800.0	9,779.5	18,724.2	9,762.8	71.2	70.0	88.92	-8,657.3	-364.3	880.0	739.0	141.00	6.241
18,810.0	9,779.5	18,734.2	9,762.8	71.3	70.1	88.92	-8,667.3	-364.4	880.0	738.9	141.14	6.235
18,900.0	9,779.6	18,824.2	9,762.9	71.9	70.8	88.92	-8,757.3	-365.2	880.0	737.5	142.48	6.176
18,905.0	9,779.6	18,829.2	9,762.9	72.0	70.8	88.92	-8,762.3	-365.3	880.0	737.4	142.55	6.173
19,000.0	9,779.6	18,924.2	9,763.0	72.6	71.5	88.92	-8,857.3	-366.1	880.0	736.0	143.96	6.113
19,095.0	9,779.7	19,019.2	9,763.0	73.3	72.2	88.92	-8,952.3	-367.0	880.0	734.6	145.37	6.053
19,100.0	9,779.7	19,024.2	9,763.0	73.4	72.2	88.92	-8,957.3	-367.0	880.0	734.6	145.45	6.050
19,190.0	9,779.7	19,114.2	9,763.1	74.0	72.9	88.92	-9,047.3	-367.8	880.0	733.2	146.79	5.995
19,200.0	9,779.8	19,124.2	9,763.1	74.1	73.0	88.92	-9,057.3	-367.9	880.0	733.1	146.94	5.989
19,285.0	9,779.8	19,209.2	9,763.2	74.7	73.6	88.93	-9,142.3	-368.7	880.0	731.8	148.20	5.938
19,300.0	9,779.8	19,224.2	9,763.2	74.9	73.7	88.93	-9,157.3	-368.8	880.0	731.6	148.42	5.929
19,380.0	9,779.8	19,304.2	9,763.3	75.4	74.3	88.93	-9,237.3	-369.5	880.0	730.4	149.61	5.882
19,400.0	9,779.9	19,324.2	9,763.3	75.6	74.5	88.93	-9,257.3	-369.7	880.0	730.1	149.91	5.870
19,475.0	9,779.9	19,399.2	9,763.3	76.1	75.0	88.93	-9,332.3	-370.3	880.0	729.0	151.03	5.827
19,500.0	9,779.9	19,424.2	9,763.4	76.3	75.2	88.93	-9,357.3	-370.6	880.0	728.6	151.40	5.812
19,570.0	9,779.9	19,494.2	9,763.4	76.8	75.8	88.93	-9,427.3	-371.2	880.0	727.6	152.44	5.773

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 #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #805H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9240-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Offset	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)		
19,600.0	9,780.0	19,524.2	9,763.4	77.1	76.0	88.93	-9,457.3	-371.4	880.0	727.1	152.89	5.756
19,665.0	9,780.0	19,589.2	9,763.5	77.5	76.5	88.93	-9,522.3	-372.0	880.0	726.1	153.86	5.720
19,700.0	9,780.0	19,624.2	9,763.5	77.8	76.7	88.93	-9,557.3	-372.3	880.0	725.6	154.38	5.700
19,760.0	9,780.0	19,684.2	9,763.6	78.3	77.2	88.93	-9,617.3	-372.9	880.0	724.7	155.27	5.667
19,800.0	9,780.1	19,724.2	9,763.6	78.5	77.5	88.93	-9,657.3	-373.2	880.0	724.1	155.87	5.646
19,855.0	9,780.1	19,779.2	9,763.6	79.0	77.9	88.93	-9,712.3	-373.7	880.0	723.3	156.69	5.616
19,900.0	9,780.1	19,824.2	9,763.7	79.3	78.2	88.94	-9,757.3	-374.1	880.0	722.6	157.36	5.592
19,950.0	9,780.1	19,874.2	9,763.7	79.7	78.6	88.94	-9,807.3	-374.6	880.0	721.9	158.11	5.566
20,000.0	9,780.2	19,924.2	9,763.8	80.0	79.0	88.94	-9,857.3	-375.0	880.0	721.2	158.86	5.540
20,045.0	9,780.2	19,969.2	9,763.8	80.4	79.3	88.94	-9,902.3	-375.4	880.0	720.5	159.53	5.516
20,100.0	9,780.2	20,024.2	9,763.8	80.8	79.7	88.94	-9,957.3	-375.9	880.0	719.7	160.35	5.488
20,140.0	9,780.2	20,064.2	9,763.9	81.1	80.0	88.94	-9,997.3	-376.2	880.0	719.1	160.95	5.468
20,200.0	9,780.3	20,124.2	9,763.9	81.5	80.5	88.94	-10,057.3	-376.8	880.0	718.2	161.84	5.437
20,235.0	9,780.3	20,159.2	9,763.9	81.8	80.7	88.94	-10,092.3	-377.1	880.0	717.6	162.37	5.420
20,300.0	9,780.3	20,224.2	9,764.0	82.3	81.2	88.94	-10,157.2	-377.7	880.0	716.7	163.34	5.388
20,330.0	9,780.3	20,254.2	9,764.0	82.5	81.5	88.94	-10,187.2	-377.9	880.0	716.2	163.79	5.373
20,400.0	9,780.4	20,324.2	9,764.1	83.0	82.0	88.94	-10,257.2	-378.5	880.0	715.2	164.83	5.339
20,425.0	9,780.4	20,349.2	9,764.1	83.2	82.2	88.94	-10,282.2	-378.8	880.0	714.8	165.21	5.327
20,500.0	9,780.4	20,424.2	9,764.1	83.7	82.7	88.95	-10,357.2	-379.4	880.0	713.7	166.33	5.291
20,520.0	9,780.4	20,444.2	9,764.2	83.9	82.9	88.95	-10,377.2	-379.6	880.0	713.4	166.63	5.281
20,600.0	9,780.5	20,524.2	9,764.2	84.5	83.5	88.95	-10,457.2	-380.3	880.0	712.2	167.82	5.244
20,615.0	9,780.5	20,539.2	9,764.2	84.6	83.6	88.95	-10,472.2	-380.5	880.0	712.0	168.05	5.237
20,700.0	9,780.5	20,624.2	9,764.3	85.2	84.2	88.95	-10,557.2	-381.2	880.0	710.7	169.32	5.197
20,710.0	9,780.5	20,634.2	9,764.3	85.3	84.3	88.95	-10,567.2	-381.3	880.0	710.5	169.47	5.193
20,800.0	9,780.6	20,724.2	9,764.4	86.0	85.0	88.95	-10,657.2	-382.1	880.0	709.2	170.82	5.152
20,805.0	9,780.6	20,729.2	9,764.4	86.0	85.0	88.95	-10,662.2	-382.1	880.0	709.1	170.89	5.149
20,900.0	9,780.6	20,824.2	9,764.5	86.7	85.7	88.95	-10,757.2	-383.0	880.0	707.7	172.32	5.107
20,995.0	9,780.7	20,919.2	9,764.5	87.4	86.5	88.95	-10,852.2	-383.8	880.0	706.3	173.74	5.065
21,000.0	9,780.7	20,924.2	9,764.5	87.5	86.5	88.95	-10,857.2	-383.9	880.0	706.2	173.82	5.063
21,090.0	9,780.7	21,014.2	9,764.6	88.1	87.2	88.96	-10,947.2	-384.7	880.0	704.9	175.16	5.024
21,100.0	9,780.8	21,024.2	9,764.6	88.2	87.2	88.96	-10,957.2	-384.8	880.0	704.7	175.31	5.020
21,185.0	9,780.8	21,109.2	9,764.7	88.8	87.9	88.96	-11,042.2	-385.5	880.0	703.4	176.59	4.983
21,200.0	9,780.8	21,124.2	9,764.7	88.9	88.0	88.96	-11,057.2	-385.6	880.0	703.2	176.81	4.977
21,280.0	9,780.8	21,204.2	9,764.8	89.5	88.6	88.96	-11,137.2	-386.4	880.0	702.0	178.01	4.944
21,300.0	9,780.9	21,224.2	9,764.8	89.7	88.8	88.96	-11,157.2	-386.5	880.0	701.7	178.31	4.935
21,375.0	9,780.9	21,299.2	9,764.8	90.2	89.3	88.96	-11,232.2	-387.2	880.0	700.6	179.44	4.904
21,400.0	9,780.9	21,324.2	9,764.9	90.4	89.5	88.96	-11,257.2	-387.4	880.0	700.2	179.81	4.894
21,470.0	9,780.9	21,394.2	9,764.9	91.0	90.0	88.96	-11,327.2	-388.0	880.0	699.2	180.87	4.866
21,500.0	9,781.0	21,424.2	9,764.9	91.2	90.3	88.96	-11,357.2	-388.3	880.0	698.7	181.32	4.854
21,565.0	9,781.0	21,489.2	9,765.0	91.7	90.7	88.96	-11,422.2	-388.9	880.0	697.7	182.29	4.828
21,600.0	9,781.0	21,524.2	9,765.0	91.9	91.0	88.96	-11,457.2	-389.2	880.0	697.2	182.82	4.814
21,660.0	9,781.0	21,584.2	9,765.1	92.4	91.5	88.97	-11,517.2	-389.7	880.0	696.3	183.72	4.790
21,700.0	9,781.1	21,624.2	9,765.1	92.7	91.8	88.97	-11,557.2	-390.1	880.0	695.7	184.32	4.774
21,755.0	9,781.1	21,679.2	9,765.1	93.1	92.2	88.97	-11,612.2	-390.6	880.0	694.9	185.15	4.753
21,800.0	9,781.1	21,724.2	9,765.2	93.4	92.5	88.97	-11,657.2	-391.0	880.0	694.2	185.82	4.736
21,850.0	9,781.1	21,774.2	9,765.2	93.8	92.9	88.97	-11,707.2	-391.4	880.0	693.5	186.57	4.717
21,900.0	9,781.2	21,824.2	9,765.3	94.2	93.3	88.97	-11,757.2	-391.9	880.0	692.7	187.32	4.698
21,945.0	9,781.2	21,869.2	9,765.3	94.5	93.6	88.97	-11,802.2	-392.3	880.0	692.0	188.00	4.681
22,000.0	9,781.2	21,924.2	9,765.3	94.9	94.0	88.97	-11,857.2	-392.7	880.0	691.2	188.83	4.660
22,040.0	9,781.2	21,964.2	9,765.4	95.2	94.3	88.97	-11,897.2	-393.1	880.0	690.6	189.43	4.646
22,100.0	9,781.3	22,024.2	9,765.4	95.7	94.8	88.97	-11,957.2	-393.6	880.0	689.7	190.33	4.624

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #805H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9240-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning			
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	+N/-S	+E/-W	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
22,135.0	9,781.3	22,059.2	9,765.4	95.9	95.0	88.97	-11,992.2	-393.9	880.0	689.2	190.86	4.611	
22,200.0	9,781.3	22,124.2	9,765.5	96.4	95.5	88.98	-12,057.2	-394.5	880.0	688.2	191.83	4.587	
22,230.0	9,781.3	22,154.2	9,765.5	96.6	95.8	88.98	-12,087.2	-394.8	880.0	687.7	192.29	4.577	
22,300.0	9,781.4	22,224.2	9,765.6	97.2	96.3	88.98	-12,157.2	-395.4	880.0	686.7	193.34	4.552	
22,325.0	9,781.4	22,249.2	9,765.6	97.3	96.5	88.98	-12,182.2	-395.6	880.0	686.3	193.71	4.543	
22,400.0	9,781.4	22,324.2	9,765.7	97.9	97.0	88.98	-12,257.2	-396.3	880.0	685.2	194.84	4.517	
22,420.0	9,781.4	22,344.2	9,765.7	98.1	97.2	88.98	-12,277.2	-396.5	880.0	684.9	195.14	4.510	
22,500.0	9,781.5	22,424.2	9,765.7	98.7	97.8	88.98	-12,357.2	-397.2	880.0	683.7	196.35	4.482	
22,515.0	9,781.5	22,439.2	9,765.7	98.8	97.9	88.98	-12,372.2	-397.3	880.0	683.5	196.57	4.477	
22,600.0	9,781.5	22,524.2	9,765.8	99.4	98.6	88.98	-12,457.2	-398.1	880.0	682.2	197.85	4.448	
22,610.0	9,781.5	22,534.2	9,765.8	99.5	98.6	88.98	-12,467.2	-398.2	880.0	682.0	198.00	4.445	
22,700.0	9,781.6	22,624.2	9,765.9	100.2	99.3	88.98	-12,557.2	-399.0	880.0	680.7	199.36	4.414	
22,705.0	9,781.6	22,629.2	9,765.9	100.2	99.3	88.98	-12,562.2	-399.0	880.0	680.6	199.43	4.413	
22,800.0	9,781.6	22,724.2	9,766.0	100.9	100.1	88.99	-12,657.2	-399.8	880.0	679.2	200.87	4.381	
22,895.0	9,781.7	22,819.2	9,766.0	101.6	100.8	88.99	-12,752.1	-400.7	880.0	677.7	202.30	4.350	
22,900.0	9,781.7	22,824.2	9,766.1	101.7	100.8	88.99	-12,757.1	-400.7	880.0	677.7	202.37	4.349	
22,990.0	9,781.7	22,914.2	9,766.1	102.3	101.5	88.99	-12,847.1	-401.5	880.0	676.3	203.73	4.320	
23,000.0	9,781.8	22,924.2	9,766.1	102.4	101.6	88.99	-12,857.1	-401.6	880.0	676.2	203.88	4.316	
23,085.0	9,781.8	23,009.2	9,766.2	103.0	102.2	88.99	-12,942.1	-402.4	880.0	674.9	205.16	4.290	
23,100.0	9,781.8	23,024.2	9,766.2	103.2	102.3	88.99	-12,957.1	-402.5	880.0	674.6	205.39	4.285	
23,180.0	9,781.9	23,104.2	9,766.3	103.8	102.9	88.99	-13,037.1	-403.2	880.0	673.4	206.59	4.260	
23,200.0	9,781.9	23,124.2	9,766.3	103.9	103.1	88.99	-13,057.1	-403.4	880.0	673.1	206.89	4.254	
23,275.0	9,781.9	23,199.2	9,766.3	104.5	103.7	88.99	-13,132.1	-404.1	880.0	672.0	208.02	4.230	
23,300.0	9,781.9	23,224.2	9,766.4	104.7	103.8	88.99	-13,157.1	-404.3	880.0	671.6	208.40	4.223	
23,370.0	9,782.0	23,294.2	9,766.4	105.2	104.4	89.00	-13,227.1	-404.9	880.0	670.6	209.46	4.202	
23,400.0	9,782.0	23,324.2	9,766.4	105.4	104.6	89.00	-13,257.1	-405.2	880.0	670.1	209.91	4.192	
23,465.0	9,782.0	23,389.2	9,766.5	105.9	105.1	89.00	-13,322.1	-405.7	880.0	669.1	210.89	4.173	
23,500.0	9,782.0	23,424.2	9,766.5	106.2	105.4	89.00	-13,357.1	-406.0	880.0	668.6	211.42	4.163	
23,560.0	9,782.1	23,484.2	9,766.6	106.6	105.8	89.00	-13,417.1	-406.6	880.0	667.7	212.32	4.145	
23,600.0	9,782.1	23,524.2	9,766.6	106.9	106.1	89.00	-13,457.1	-406.9	880.0	667.1	212.92	4.133	
23,655.0	9,782.1	23,579.2	9,766.6	107.3	106.5	89.00	-13,512.1	-407.4	880.0	666.3	213.75	4.117	
23,700.0	9,782.1	23,624.2	9,766.7	107.7	106.9	89.00	-13,557.1	-407.8	880.0	665.6	214.43	4.104	
23,750.0	9,782.2	23,674.2	9,766.7	108.0	107.2	89.00	-13,607.1	-408.3	880.0	664.9	215.19	4.090	
23,800.0	9,782.2	23,724.2	9,766.8	108.4	107.6	89.00	-13,657.1	-408.7	880.0	664.1	215.94	4.075	
23,845.0	9,782.2	23,769.2	9,766.8	108.7	108.0	89.00	-13,702.1	-409.1	880.0	663.4	216.62	4.063	
23,900.0	9,782.2	23,824.2	9,766.8	109.2	108.4	89.00	-13,757.1	-409.6	880.0	662.6	217.45	4.047	
23,940.0	9,782.3	23,864.2	9,766.9	109.5	108.7	89.01	-13,797.1	-410.0	880.0	662.0	218.06	4.036	
24,000.0	9,782.3	23,924.2	9,766.9	109.9	109.1	89.01	-13,857.1	-410.5	880.0	661.1	218.96	4.019	
24,035.0	9,782.3	23,959.2	9,766.9	110.2	109.4	89.01	-13,892.1	-410.8	880.0	660.6	219.49	4.009	
24,100.0	9,782.3	24,024.2	9,767.0	110.7	109.9	89.01	-13,957.1	-411.4	880.0	659.6	220.47	3.992	
24,130.0	9,782.4	24,054.2	9,767.0	110.9	110.1	89.01	-13,987.1	-411.6	880.0	659.1	220.92	3.983	
24,200.0	9,782.4	24,124.2	9,767.1	111.4	110.7	89.01	-14,057.1	-412.3	880.0	658.1	221.98	3.964	
24,225.0	9,782.4	24,149.2	9,767.1	111.6	110.8	89.01	-14,082.1	-412.5	880.0	657.7	222.36	3.958	
24,300.0	9,782.4	24,224.2	9,767.2	112.2	111.4	89.01	-14,157.1	-413.1	880.0	656.6	223.49	3.938	
24,320.0	9,782.5	24,244.2	9,767.2	112.3	111.6	89.01	-14,177.1	-413.3	880.0	656.3	223.79	3.932	
24,400.0	9,782.5	24,324.2	9,767.2	112.9	112.2	89.01	-14,257.1	-414.0	880.0	655.0	225.00	3.911	
24,415.0	9,782.5	24,339.2	9,767.3	113.0	112.3	89.01	-14,272.1	-414.2	880.0	654.8	225.23	3.907	
24,500.0	9,782.5	24,424.2	9,767.3	113.7	112.9	89.02	-14,357.1	-414.9	880.0	653.5	226.51	3.885	
24,510.0	9,782.6	24,434.2	9,767.3	113.7	113.0	89.02	-14,367.1	-415.0	880.0	653.4	226.66	3.883	
24,600.0	9,782.6	24,524.2	9,767.4	114.4	113.7	89.02	-14,457.1	-415.8	880.0	652.0	228.02	3.859	
24,605.0	9,782.6	24,529.2	9,767.4	114.5	113.7	89.02	-14,462.1	-415.9	880.0	651.9	228.10	3.858	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #805H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9240-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:		Distance		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
24,700.0	9,782.7	24,624.2	9,767.5	115.2	114.4	89.02	-14,557.1	-416.7	880.0	650.5	229.53	3.834	
24,795.0	9,782.7	24,719.2	9,767.6	115.9	115.2	89.02	-14,652.1	-417.5	880.0	649.1	230.97	3.810	
24,800.0	9,782.7	24,724.2	9,767.6	115.9	115.2	89.02	-14,657.1	-417.6	880.0	649.0	231.05	3.809	
24,890.0	9,782.8	24,814.2	9,767.6	116.6	115.9	89.02	-14,747.1	-418.4	880.0	647.6	232.41	3.787	
24,900.0	9,782.8	24,824.2	9,767.6	116.7	116.0	89.02	-14,757.1	-418.5	880.0	647.5	232.56	3.784	
24,985.0	9,782.8	24,909.2	9,767.7	117.3	116.6	89.02	-14,842.1	-419.2	880.0	646.2	233.84	3.763	
25,000.0	9,782.8	24,924.2	9,767.7	117.4	116.7	89.02	-14,857.1	-419.4	880.0	646.0	234.07	3.760	
25,080.0	9,782.9	25,004.2	9,767.8	118.0	117.3	89.03	-14,937.1	-420.1	880.1	644.8	235.28	3.740	
25,100.0	9,782.9	25,024.2	9,767.8	118.2	117.5	89.03	-14,957.1	-420.2	880.1	644.5	235.58	3.736	
25,175.0	9,782.9	25,099.2	9,767.9	118.8	118.0	89.03	-15,032.1	-420.9	880.1	643.3	236.72	3.718	
25,200.0	9,782.9	25,124.2	9,767.9	118.9	118.2	89.03	-15,057.1	-421.1	880.1	643.0	237.09	3.712	
25,229.2	9,782.9	25,153.4	9,767.9	119.2	118.4	89.03	-15,086.2	-421.4	880.1	642.5	237.53	3.705	
25,270.0	9,783.0	25,194.2	9,767.9	119.5	118.8	89.03	-15,127.1	-421.8	880.1	641.9	238.15	3.695	
25,300.0	9,783.0	25,224.2	9,768.0	119.7	119.0	89.03	-15,157.1	-422.0	880.1	641.4	238.60	3.688	
25,359.2	9,783.0	25,283.4	9,768.0	120.1	119.4	89.03	-15,216.2	-422.5	880.1	640.6	239.50	3.675	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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:		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)			
0.0	0.0	0.1	0.1	3.0	3.0	-90.96	-1.0	-59.9	59.9				
95.0	95.0	95.1	95.1	3.0	3.0	-90.96	-1.0	-59.9	59.9	53.9	6.04	9.925	
100.0	100.0	100.1	100.1	3.0	3.0	-90.96	-1.0	-59.9	59.9	53.9	6.04	9.917	
190.0	190.0	190.1	190.1	3.1	3.1	-90.96	-1.0	-59.9	59.9	53.7	6.25	9.582	
200.0	200.0	200.1	200.1	3.1	3.1	-90.96	-1.0	-59.9	59.9	53.6	6.29	9.530	
285.0	285.0	285.1	285.1	3.3	3.3	-90.96	-1.0	-59.9	59.9	53.4	6.48	9.241	
300.0	300.0	300.1	300.1	3.3	3.3	-90.96	-1.0	-59.9	59.9	53.4	6.52	9.185	
380.0	380.0	380.1	380.1	3.4	3.4	-90.96	-1.0	-59.9	59.9	53.2	6.70	8.939	
400.0	400.0	400.1	400.1	3.4	3.4	-90.96	-1.0	-59.9	59.9	53.2	6.75	8.875	
475.0	475.0	475.1	475.1	3.5	3.5	-90.96	-1.0	-59.9	59.9	53.0	6.91	8.665	
500.0	500.0	500.1	500.1	3.5	3.5	-90.96	-1.0	-59.9	59.9	52.9	6.97	8.594	
570.0	570.0	570.1	570.1	3.6	3.6	-90.96	-1.0	-59.9	59.9	52.8	7.12	8.416	
600.0	600.0	600.1	600.1	3.6	3.6	-90.96	-1.0	-59.9	59.9	52.7	7.18	8.338	
665.0	665.0	665.1	665.1	3.7	3.7	-90.96	-1.0	-59.9	59.9	52.6	7.32	8.186	
700.0	700.0	700.1	700.1	3.8	3.8	-90.96	-1.0	-59.9	59.9	52.5	7.39	8.104	
760.0	760.0	760.1	760.1	3.8	3.8	-90.96	-1.0	-59.9	59.9	52.4	7.51	7.975	
800.0	800.0	800.1	800.1	3.9	3.9	-90.96	-1.0	-59.9	59.9	52.3	7.59	7.889	
855.0	855.0	855.1	855.1	4.0	4.0	-90.96	-1.0	-59.9	59.9	52.2	7.70	7.779	
900.0	900.0	900.1	900.1	4.0	4.0	-90.96	-1.0	-59.9	59.9	52.1	7.79	7.690	
950.0	950.0	950.1	950.1	4.1	4.1	-90.96	-1.0	-59.9	59.9	52.0	7.89	7.597	
1,000.0	1,000.0	1,000.1	1,000.1	4.1	4.1	-90.96	-1.0	-59.9	59.9	51.9	7.98	7.505	
1,045.0	1,045.0	1,045.1	1,045.1	4.2	4.2	-90.96	-1.0	-59.9	59.9	51.8	8.07	7.427	
1,100.0	1,100.0	1,100.1	1,100.1	4.2	4.2	-90.96	-1.0	-59.9	59.9	51.7	8.17	7.333	
1,140.0	1,140.0	1,140.1	1,140.1	4.3	4.3	-90.96	-1.0	-59.9	59.9	51.7	8.24	7.268	
1,200.0	1,200.0	1,200.1	1,200.1	4.4	4.4	-90.96	-1.0	-59.9	59.9	51.6	8.35	7.172	
1,235.0	1,235.0	1,235.1	1,235.1	4.4	4.4	-90.96	-1.0	-59.9	59.9	51.5	8.42	7.119	
1,300.0	1,300.0	1,300.1	1,300.1	4.5	4.5	-90.96	-1.0	-59.9	59.9	51.4	8.53	7.022	
1,330.0	1,330.0	1,330.1	1,330.1	4.5	4.5	-90.96	-1.0	-59.9	59.9	51.3	8.58	6.979	
1,400.0	1,400.0	1,400.1	1,400.1	4.6	4.6	-90.96	-1.0	-59.9	59.9	51.2	8.71	6.880	
1,425.0	1,425.0	1,425.1	1,425.1	4.6	4.6	-90.96	-1.0	-59.9	59.9	51.2	8.75	6.847	
1,437.5	1,437.5	1,437.6	1,437.6	4.6	4.6	-90.96	-1.0	-59.9	59.9	51.1	8.77	6.830 CC	
1,500.0	1,500.0	1,500.0	1,500.0	4.7	4.7	-90.96	-1.0	-59.9	59.9	51.0	8.88	6.747 ES	
1,520.0	1,520.0	1,519.7	1,519.7	4.7	4.7	-140.14	-1.0	-60.0	60.0	51.1	8.94	6.712 SF	
1,600.0	1,600.0	1,598.2	1,598.1	4.9	4.8	-140.45	-0.3	-61.4	62.8	53.6	9.20	6.829	
1,615.0	1,615.0	1,612.8	1,612.8	4.9	4.9	-140.55	-0.1	-61.9	63.7	54.5	9.27	6.879	
1,700.0	1,699.8	1,695.7	1,695.6	5.1	5.0	-141.26	1.7	-66.0	71.5	61.8	9.67	7.390	
1,710.0	1,709.8	1,705.4	1,705.2	5.1	5.1	-141.35	2.0	-66.6	72.7	63.0	9.72	7.475	
1,800.0	1,799.5	1,792.3	1,791.8	5.4	5.3	-142.21	5.0	-73.5	85.9	75.8	10.16	8.454	
1,805.0	1,804.4	1,797.1	1,796.5	5.4	5.3	-142.26	5.2	-74.0	86.8	76.6	10.19	8.519	
1,900.0	1,898.7	1,887.4	1,886.2	5.7	5.5	-143.07	9.5	-83.8	106.0	95.4	10.67	9.940	
1,995.0	1,992.5	1,976.0	1,973.8	6.0	5.8	-143.70	14.9	-96.0	130.3	119.2	11.16	11.677	
2,000.0	1,997.5	1,980.6	1,978.4	6.0	5.8	-143.72	15.2	-96.7	131.7	120.5	11.19	11.776	
2,090.0	2,085.8	2,062.6	2,059.0	6.3	6.1	-144.13	21.2	-110.3	159.5	147.8	11.66	13.674	
2,100.0	2,095.6	2,071.6	2,067.8	6.3	6.2	-144.17	21.9	-111.9	162.8	151.1	11.72	13.898	
2,185.0	2,178.5	2,146.8	2,141.3	6.6	6.4	-144.40	28.3	-126.5	193.4	181.2	12.18	15.885	
2,200.2	2,193.2	2,160.1	2,154.2	6.7	6.5	-144.43	29.5	-129.2	199.3	187.0	12.26	16.256	
2,280.0	2,270.7	2,230.8	2,223.0	6.9	6.7	-144.80	36.3	-144.6	230.9	218.3	12.66	18.240	
2,300.0	2,290.1	2,249.1	2,240.7	7.0	6.8	-144.87	38.1	-148.7	238.9	226.2	12.77	18.719	
2,375.0	2,362.9	2,317.9	2,307.4	7.2	7.0	-145.10	44.8	-163.9	269.0	255.8	13.17	20.429	
2,400.0	2,387.1	2,340.8	2,329.6	7.3	7.1	-145.17	47.0	-169.0	279.0	265.7	13.30	20.972	
2,470.0	2,455.0	2,404.9	2,391.9	7.5	7.3	-145.33	53.2	-183.2	307.0	293.3	13.69	22.418	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #806H - OWB - PWP1														Offset Site Error: 0.0 usft	
Survey Program: Reference		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9308-r.5 MWD+IFR1+MS						Rule Assigned:						Offset Well Error: 3.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
2,500.0	2,484.1	2,432.4	2,418.6	7.7	7.4	-145.39	55.9	-189.3	319.0	305.1	13.87	23.007			
2,565.0	2,547.2	2,492.0	2,476.3	7.9	7.6	-145.51	61.7	-202.4	345.0	330.8	14.25	24.220			
2,600.0	2,581.2	2,524.0	2,507.5	8.0	7.7	-145.56	64.8	-209.5	359.0	344.6	14.45	24.842			
2,660.0	2,639.4	2,579.0	2,560.8	8.2	7.9	-145.65	70.2	-221.7	383.1	368.2	14.82	25.854			
2,700.0	2,678.2	2,615.7	2,596.4	8.4	8.0	-145.70	73.8	-229.8	399.1	384.0	15.06	26.498			
2,755.0	2,731.6	2,666.1	2,645.3	8.6	8.2	-145.77	78.7	-241.0	421.1	405.7	15.40	27.337			
2,800.0	2,775.2	2,707.3	2,685.3	8.8	8.4	-145.81	82.7	-250.1	439.1	423.4	15.69	27.993			
2,850.0	2,823.7	2,753.1	2,729.7	9.0	8.5	-145.86	87.2	-260.3	459.1	443.1	16.01	28.682			
2,900.0	2,872.3	2,798.9	2,774.2	9.2	8.7	-145.91	91.6	-270.4	479.1	462.8	16.33	29.343			
2,945.0	2,915.9	2,840.2	2,814.2	9.3	8.9	-145.94	95.6	-279.5	497.2	480.5	16.62	29.906			
3,000.0	2,969.3	2,890.6	2,863.1	9.6	9.1	-145.99	100.5	-290.7	519.2	502.2	16.99	30.564			
3,040.0	3,008.1	2,927.2	2,898.7	9.7	9.2	-146.01	104.1	-298.8	535.2	517.9	17.25	31.019			
3,100.0	3,066.3	2,982.2	2,952.0	10.0	9.5	-146.05	109.5	-311.0	559.2	541.6	17.66	31.672			
3,135.0	3,100.3	3,014.3	2,983.1	10.1	9.6	-146.08	112.6	-318.1	573.2	555.3	17.89	32.034			
3,200.0	3,163.3	3,073.8	3,040.9	10.4	9.8	-146.11	118.4	-331.3	599.3	580.9	18.34	32.677			
3,230.0	3,192.4	3,101.3	3,067.6	10.5	9.9	-146.13	121.1	-337.4	611.3	592.7	18.55	32.961			
3,300.0	3,260.4	3,165.5	3,129.8	10.8	10.2	-146.16	127.3	-351.6	639.3	620.3	19.03	33.593			
3,325.0	3,284.6	3,188.4	3,152.1	10.9	10.3	-146.18	129.6	-356.7	649.3	630.1	19.21	33.809			
3,400.0	3,357.4	3,257.1	3,218.7	11.2	10.6	-146.21	136.3	-371.9	679.3	659.6	19.73	34.428			
3,420.0	3,376.8	3,275.4	3,236.5	11.3	10.7	-146.22	138.0	-375.9	687.4	667.5	19.87	34.586			
3,500.0	3,454.4	3,348.7	3,307.7	11.7	11.0	-146.25	145.2	-392.2	719.4	698.9	20.44	35.192			
3,515.0	3,469.0	3,362.5	3,321.0	11.7	11.1	-146.26	146.5	-395.2	725.4	704.8	20.55	35.300			
3,600.0	3,551.4	3,440.4	3,396.6	12.1	11.4	-146.29	154.1	-412.4	759.4	738.3	21.16	35.891			
3,610.0	3,561.1	3,449.5	3,405.5	12.2	11.4	-146.29	155.0	-414.5	763.4	742.2	21.23	35.958			
3,700.0	3,648.5	3,532.0	3,485.5	12.6	11.8	-146.32	163.0	-432.7	799.5	777.6	21.88	36.534			
3,705.0	3,653.3	3,536.6	3,489.9	12.6	11.8	-146.32	163.5	-433.8	801.5	779.6	21.92	36.564			
3,800.0	3,745.5	3,623.6	3,574.4	13.0	12.2	-146.35	172.0	-453.0	839.5	816.9	22.61	37.125			
3,895.0	3,837.7	3,710.7	3,658.9	13.4	12.6	-146.37	180.4	-472.3	877.6	854.2	23.31	37.644			
3,900.0	3,842.5	3,715.3	3,663.3	13.5	12.6	-146.37	180.9	-473.3	879.6	856.2	23.35	37.671			
3,990.0	3,929.9	3,797.7	3,743.3	13.9	13.0	-146.40	188.9	-491.6	915.6	891.6	24.02	38.126			
4,000.0	3,939.6	3,806.9	3,752.2	13.9	13.0	-146.40	189.8	-493.6	919.6	895.5	24.09	38.175			
4,085.0	4,022.0	3,884.8	3,827.8	14.3	13.4	-146.42	197.4	-510.9	953.6	928.9	24.72	38.573			
4,100.0	4,036.6	3,898.5	3,841.1	14.4	13.4	-146.42	198.7	-513.9	959.6	934.8	24.83	38.641			
4,180.0	4,114.2	3,971.8	3,912.3	14.7	13.8	-146.44	205.9	-530.1	991.7	966.2	25.43	38.990			
4,200.0	4,133.6	3,990.2	3,930.0	14.8	13.8	-146.44	207.7	-534.2	999.7	974.1	25.58	39.074			
4,275.0	4,206.4	4,058.9	3,996.7	15.2	14.2	-146.46	214.4	-549.4	1,029.7	1,003.6	26.15	39.378			
4,300.0	4,230.6	4,081.8	4,018.9	15.3	14.3	-146.46	216.6	-554.5	1,039.7	1,013.4	26.34	39.476			
4,370.0	4,298.6	4,145.9	4,081.2	15.6	14.6	-146.47	222.8	-568.7	1,067.8	1,040.9	26.87	39.741			
4,400.0	4,327.7	4,173.4	4,107.9	15.7	14.7	-146.48	225.5	-574.8	1,079.8	1,052.7	27.10	39.851			
4,465.0	4,390.7	4,233.0	4,165.6	16.0	15.0	-146.49	231.3	-588.0	1,105.8	1,078.2	27.59	40.081			
4,500.0	4,424.7	4,265.0	4,196.8	16.2	15.1	-146.49	234.4	-595.1	1,119.8	1,092.0	27.86	40.201			
4,560.0	4,482.9	4,320.0	4,250.1	16.5	15.4	-146.50	239.8	-607.2	1,143.8	1,115.5	28.31	40.399			
4,600.0	4,521.7	4,356.7	4,285.7	16.7	15.5	-146.51	243.4	-615.4	1,159.9	1,131.2	28.62	40.528			
4,655.0	4,575.1	4,407.1	4,334.6	16.9	15.8	-146.52	248.3	-626.5	1,181.9	1,152.8	29.04	40.698			
4,700.0	4,618.8	4,448.3	4,374.6	17.1	15.9	-146.52	252.3	-635.6	1,199.9	1,170.5	29.39	40.833			
4,750.0	4,667.3	4,494.1	4,419.0	17.4	16.2	-146.53	256.8	-645.8	1,219.9	1,190.2	29.76	40.994			
4,755.7	4,672.8	4,499.3	4,424.1	17.4	16.2	-146.53	257.3	-646.9	1,222.2	1,192.4	29.80	41.012			
4,800.0	4,715.9	4,540.1	4,463.6	17.6	16.4	-146.74	261.2	-656.0	1,239.7	1,209.5	30.13	41.144			
4,845.0	4,759.8	4,581.6	4,503.9	17.8	16.6	-146.92	265.3	-665.2	1,256.9	1,226.4	30.48	41.234			
4,900.0	4,813.6	4,632.7	4,553.5	18.1	16.8	-147.10	270.3	-676.5	1,277.2	1,246.3	30.91	41.315			
4,940.0	4,852.9	4,670.1	4,589.8	18.3	17.0	-147.21	273.9	-684.8	1,291.4	1,260.2	31.22	41.362			

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design:		FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #806H - OWB - PWP1										Offset Site Error:		0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9308-r.5 MWD+IFR1+MS										Offset Well Error:		3.0 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Rule Assigned:					
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)			
5,000.0	4,912.1	4,726.4	4,644.4	18.5	17.2	-147.35	279.4	-697.2	1,312.0	1,280.3	31.69	41.403		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 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)		
10,700.0	9,775.3	9,723.1	9,717.0	23.4	286.3	-89.64	-1,398.9	1,566.9	1,286.2	984.4	301.83	4.261	
10,735.0	9,775.3	9,723.3	9,717.2	23.4	286.3	-89.66	-1,398.9	1,566.9	1,264.1	962.1	301.95	4.186	
10,800.0	9,775.3	9,723.8	9,717.7	23.5	286.3	-89.68	-1,398.9	1,566.9	1,224.5	922.3	302.21	4.052	
10,830.0	9,775.3	9,724.0	9,717.9	23.6	286.3	-89.70	-1,398.9	1,566.9	1,207.0	904.6	302.36	3.992	
10,900.0	9,775.4	9,724.5	9,718.4	23.7	286.4	-89.73	-1,398.9	1,566.9	1,168.1	865.4	302.75	3.858	
10,925.0	9,775.4	9,724.7	9,718.6	23.8	286.4	-89.74	-1,398.9	1,566.9	1,154.9	852.0	302.92	3.813	
11,000.0	9,775.4	9,725.2	9,719.1	23.9	286.4	-89.77	-1,398.9	1,566.9	1,117.8	814.4	303.47	3.683	
11,020.0	9,775.4	9,725.4	9,719.2	24.0	286.4	-89.78	-1,398.9	1,566.9	1,108.6	804.9	303.64	3.651	
11,100.0	9,775.5	9,726.0	9,719.8	24.1	286.4	-89.81	-1,398.9	1,566.9	1,074.5	770.1	304.37	3.530	
11,115.0	9,775.5	9,726.1	9,719.9	24.2	286.4	-89.82	-1,398.9	1,566.9	1,068.7	764.2	304.52	3.509	
11,200.0	9,775.5	9,726.7	9,720.6	24.4	286.4	-89.85	-1,398.9	1,566.9	1,039.1	733.6	305.42	3.402	
11,210.0	9,775.5	9,726.8	9,720.6	24.4	286.4	-89.86	-1,398.9	1,566.9	1,036.0	730.4	305.54	3.391	
11,300.0	9,775.6	9,727.5	9,721.3	24.6	286.4	-89.90	-1,398.9	1,566.9	1,012.3	705.7	306.60	3.302	
11,305.0	9,775.6	9,727.5	9,721.4	24.6	286.5	-89.90	-1,398.9	1,566.9	1,011.2	704.5	306.66	3.297	
11,400.0	9,775.6	9,728.2	9,722.1	24.9	286.5	-89.94	-1,398.9	1,566.9	994.8	687.0	307.84	3.232	
11,495.0	9,775.7	9,728.9	9,722.8	25.2	286.5	-89.98	-1,398.9	1,566.9	987.4	678.4	309.02	3.195	
11,500.0	9,775.7	9,729.0	9,722.9	25.2	286.5	-89.99	-1,398.9	1,566.9	987.3	678.2	309.08	3.194	
11,524.8	9,775.7	9,729.2	9,723.1	25.3	286.5	-90.00	-1,398.9	1,566.9	987.0	677.6	309.38	3.190 CC, ES	
11,590.0	9,775.7	9,729.7	9,723.6	25.5	286.5	-90.03	-1,398.9	1,566.9	989.1	679.0	310.15	3.189 SF	
11,600.0	9,775.7	9,729.8	9,723.6	25.5	286.5	-90.03	-1,398.9	1,566.9	989.9	679.6	310.26	3.190	
11,685.0	9,775.8	9,730.4	9,724.3	25.8	286.5	-90.07	-1,398.9	1,566.9	999.9	688.7	311.17	3.213	
11,700.0	9,775.8	9,730.6	9,724.4	25.8	286.5	-90.08	-1,398.9	1,566.9	1,002.4	691.1	311.32	3.220	
11,780.0	9,775.8	9,731.2	9,725.1	26.1	286.6	-90.11	-1,398.9	1,566.9	1,019.4	707.4	312.06	3.267	
11,800.0	9,775.8	9,731.4	9,725.2	26.2	286.6	-90.12	-1,398.9	1,566.9	1,024.6	712.4	312.23	3.282	
11,875.0	9,775.9	9,732.0	9,725.9	26.5	286.6	-90.16	-1,398.9	1,566.9	1,047.3	734.5	312.80	3.348	
11,900.0	9,775.9	9,732.2	9,726.1	26.6	286.6	-90.17	-1,398.9	1,566.9	1,055.9	742.9	312.96	3.374	
11,970.0	9,775.9	9,732.8	9,726.6	26.8	286.6	-90.21	-1,398.9	1,566.9	1,082.8	769.4	313.38	3.455	
12,000.0	9,776.0	9,733.0	9,726.9	26.9	286.6	-90.22	-1,399.0	1,566.9	1,095.4	781.9	313.54	3.494	
12,065.0	9,776.0	9,733.6	9,727.4	27.2	286.6	-90.25	-1,399.0	1,566.9	1,125.1	811.3	313.83	3.585	
12,100.0	9,776.0	9,733.9	9,727.7	27.4	286.6	-90.27	-1,399.0	1,566.9	1,142.4	828.4	313.96	3.639	
12,160.0	9,776.0	9,734.4	9,728.2	27.6	286.7	-90.30	-1,399.0	1,566.9	1,173.7	859.6	314.15	3.736	
12,200.0	9,776.1	9,734.7	9,728.6	27.8	286.7	-90.32	-1,399.0	1,566.9	1,195.8	881.6	314.25	3.805	
12,255.0	9,776.1	9,735.2	9,729.1	28.0	286.7	-90.35	-1,399.0	1,566.9	1,227.7	913.4	314.37	3.905	
12,300.0	9,776.1	9,735.6	9,729.5	28.2	286.7	-90.37	-1,399.0	1,566.9	1,255.0	940.6	314.44	3.991	
12,350.0	9,776.1	9,736.0	9,729.9	28.4	286.7	-90.39	-1,399.0	1,566.9	1,286.5	972.0	314.51	4.090	
12,400.0	9,776.2	9,736.5	9,730.3	28.7	286.7	-90.42	-1,399.0	1,566.9	1,319.1	1,004.6	314.55	4.194	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 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	-40.00		872.5	-732.0	1,139.3				
95.0	95.0	60.4	60.4	3.0	3.2	-39.99		872.7	-731.9	1,139.0	1,132.9	6.04	188.598	
100.0	100.0	65.2	65.2	3.0	3.2	-39.99		872.7	-731.9	1,139.0	1,132.9	6.05	188.400	
190.0	190.0	151.0	151.0	3.1	3.9	-39.94		873.6	-731.5	1,139.4	1,133.2	6.26	182.036	
200.0	200.0	160.5	160.5	3.1	4.0	-39.93		873.7	-731.4	1,139.5	1,133.2	6.29	181.067	
285.0	285.0	241.5	241.5	3.3	5.0	-39.86		875.2	-730.7	1,140.2	1,133.6	6.57	173.546	
300.0	300.0	255.8	255.8	3.3	5.2	-39.84		875.6	-730.6	1,140.4	1,133.8	6.63	172.074	
380.0	380.0	332.0	331.9	3.4	6.2	-39.74		877.6	-729.6	1,141.4	1,134.5	6.94	164.419	
400.0	400.0	351.0	350.9	3.4	6.5	-39.71		878.2	-729.3	1,141.7	1,134.7	7.03	162.445	
475.0	475.0	431.0	430.9	3.5	7.7	-39.56		881.2	-727.9	1,143.0	1,135.6	7.39	154.631	
500.0	500.0	451.7	451.5	3.5	7.8	-39.52		881.9	-727.5	1,143.4	1,136.0	7.45	153.466	
570.0	570.0	538.1	538.0	3.6	8.2	-39.43		883.5	-726.5	1,143.8	1,136.1	7.69	148.728	
600.0	600.0	568.6	568.4	3.6	8.3	-39.41		883.7	-726.2	1,143.8	1,136.0	7.83	146.164	
665.0	665.0	634.7	634.5	3.7	8.6	-39.38		884.1	-725.8	1,143.8	1,135.7	8.11	140.987	
700.0	700.0	670.3	670.1	3.8	8.7	-39.37		884.2	-725.5	1,143.8	1,135.5	8.27	138.334	
760.0	760.0	730.3	730.1	3.8	8.9	-39.36		884.3	-725.3	1,143.7	1,135.1	8.52	134.301	
800.0	800.0	769.0	768.9	3.9	9.0	-39.35		884.3	-725.1	1,143.6	1,135.0	8.66	132.062	
814.3	814.3	782.9	782.7	3.9	9.0	-39.35		884.4	-725.1	1,143.6	1,134.9	8.71	131.294	
855.0	855.0	822.3	822.1	4.0	9.1	-39.34		884.5	-725.0	1,143.6	1,134.8	8.86	129.146	
900.0	900.0	865.9	865.7	4.0	9.2	-39.33		884.6	-724.9	1,143.7	1,134.7	9.02	126.850	
950.0	950.0	914.8	914.6	4.1	9.3	-39.33		884.8	-724.9	1,143.9	1,134.7	9.18	124.607	
1,000.0	1,000.0	964.7	964.5	4.1	9.5	-39.32		885.1	-724.9	1,144.0	1,134.7	9.32	122.706	
1,045.0	1,045.0	1,009.5	1,009.3	4.2	9.6	-39.31		885.3	-724.9	1,144.2	1,134.7	9.46	121.012	
1,100.0	1,100.0	1,064.4	1,064.2	4.2	9.8	-39.30		885.5	-724.9	1,144.4	1,134.8	9.62	118.935	
1,140.0	1,140.0	1,104.2	1,104.0	4.3	9.9	-39.30		885.7	-724.9	1,144.5	1,134.8	9.75	117.404	
1,200.0	1,200.0	1,163.8	1,163.7	4.4	10.1	-39.28		886.1	-724.7	1,144.8	1,134.8	9.95	115.106	
1,235.0	1,235.0	1,198.6	1,198.4	4.4	10.2	-39.26		886.5	-724.5	1,144.9	1,134.9	10.06	113.811	
1,300.0	1,300.0	1,263.2	1,263.0	4.5	10.4	-39.21		887.3	-724.0	1,145.2	1,134.9	10.27	111.469	
1,330.0	1,330.0	1,296.7	1,296.5	4.5	10.5	-39.18		887.8	-723.6	1,145.3	1,134.9	10.44	109.745	
1,400.0	1,400.0	1,379.2	1,379.0	4.6	10.7	-39.09		888.7	-722.0	1,145.1	1,134.2	10.88	105.258	
1,425.0	1,425.0	1,408.7	1,408.4	4.6	10.8	-39.05		888.9	-721.2	1,144.8	1,133.8	11.03	103.765	
1,500.0	1,500.0	1,487.4	1,487.1	4.7	11.0	-38.94		889.3	-718.6	1,143.5	1,132.0	11.44	99.916	
1,520.0	1,520.0	1,504.2	1,503.9	4.7	11.0	-88.11		889.3	-718.2	1,143.2	1,131.6	11.54	99.057	
1,600.0	1,600.0	1,574.5	1,574.2	4.9	11.1	-88.18		889.1	-717.5	1,142.5	1,130.5	11.93	95.763	
1,615.0	1,615.0	1,590.6	1,590.3	4.9	11.1	-88.21		889.0	-717.5	1,142.4	1,130.3	12.05	94.809	
1,700.0	1,699.8	1,681.8	1,681.5	5.1	11.3	-88.47		888.6	-716.8	1,141.5	1,128.8	12.72	89.760	
1,710.0	1,709.8	1,692.5	1,692.2	5.1	11.3	-88.50		888.5	-716.6	1,141.3	1,128.6	12.80	89.197	
1,800.0	1,799.5	1,787.4	1,787.1	5.4	11.5	-88.91		888.0	-715.1	1,139.8	1,126.3	13.47	84.608	
1,805.0	1,804.4	1,792.6	1,792.3	5.4	11.5	-88.94		887.9	-715.0	1,139.7	1,126.2	13.51	84.379	
1,900.0	1,898.7	1,890.4	1,890.0	5.7	11.6	-89.51		887.5	-712.7	1,137.8	1,123.6	14.17	80.318	
1,995.0	1,992.5	1,985.8	1,985.4	6.0	11.8	-90.21		887.1	-710.0	1,135.7	1,121.0	14.72	77.149	
2,000.0	1,997.5	1,990.7	1,990.3	6.0	11.8	-90.25		887.1	-709.9	1,135.6	1,120.9	14.74	77.017	
2,090.0	2,085.8	2,078.3	2,077.8	6.3	12.0	-91.03		886.9	-707.2	1,133.8	1,118.7	15.17	74.748	
2,100.0	2,095.6	2,087.9	2,087.5	6.3	12.0	-91.12		886.9	-706.9	1,133.7	1,118.5	15.21	74.514	
2,185.0	2,178.5	2,170.9	2,170.4	6.6	12.2	-91.99		886.8	-704.5	1,132.4	1,116.8	15.65	72.340	
2,200.2	2,193.2	2,186.0	2,185.5	6.7	12.2	-92.17		886.8	-704.0	1,132.2	1,116.5	15.74	71.918	
2,280.0	2,270.7	2,265.1	2,264.6	6.9	12.4	-93.05		886.7	-701.7	1,131.3	1,115.1	16.22	69.770	
2,300.0	2,290.1	2,284.9	2,284.4	7.0	12.5	-93.28		886.6	-701.1	1,131.1	1,114.8	16.33	69.256	
2,375.0	2,362.9	2,358.1	2,357.5	7.2	12.6	-94.10		886.4	-698.9	1,130.5	1,113.7	16.81	67.273	
2,400.0	2,387.1	2,381.9	2,381.4	7.3	12.7	-94.37		886.3	-698.1	1,130.4	1,113.4	16.97	66.597	
2,470.0	2,455.0	2,448.8	2,448.2	7.5	12.9	-95.12		886.3	-696.1	1,130.2	1,112.8	17.44	64.800	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - WHITE CITY 21 25 27 FEDERAL COM #5H - OWB - AWP													Offset Site Error: 0.0 usft	
Survey Program: 431-MWD		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Offset Well Error: 3.0 usft		
Measured Reference	Vertical	Measured	Vertical	Reference	Offset	Highside			Distance				Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
2,475.8	2,460.6	2,454.3	2,453.7	7.6	12.9	-95.18	886.3	-695.9	1,130.2	1,112.8	17.48	64.658 CC		
2,500.0	2,484.1	2,477.5	2,476.9	7.7	13.0	-95.44	886.3	-695.2	1,130.3	1,112.6	17.64	64.074		
2,565.0	2,547.2	2,535.3	2,534.7	7.9	13.1	-96.08	886.4	-693.5	1,130.5	1,112.5	18.02	62.754 ES		
2,600.0	2,581.2	2,562.6	2,562.0	8.0	13.2	-96.39	886.5	-692.9	1,131.0	1,112.8	18.17	62.241		
2,660.0	2,639.4	2,609.3	2,608.6	8.2	13.3	-96.94	886.6	-692.4	1,132.3	1,113.9	18.44	61.416		
2,700.0	2,678.2	2,640.3	2,639.6	8.4	13.4	-97.31	886.8	-692.4	1,133.7	1,115.1	18.61	60.908		
2,755.0	2,731.6	2,682.7	2,682.1	8.6	13.6	-97.83	887.0	-692.8	1,136.1	1,117.3	18.85	60.258		
2,800.0	2,775.2	2,720.4	2,719.7	8.8	13.7	-98.30	887.2	-693.5	1,138.6	1,119.5	19.11	59.590		
2,850.0	2,823.7	2,769.2	2,768.5	9.0	13.8	-98.91	887.5	-694.6	1,141.5	1,122.0	19.51	58.497		
2,900.0	2,872.3	2,817.9	2,817.2	9.2	13.9	-99.52	887.8	-695.7	1,144.6	1,124.6	19.91	57.476		
2,945.0	2,915.9	2,861.8	2,861.1	9.3	14.0	-100.07	888.0	-696.7	1,147.4	1,127.1	20.27	56.611		
3,000.0	2,969.3	2,915.3	2,914.5	9.6	14.1	-100.73	888.2	-697.9	1,151.0	1,130.4	20.67	55.685		
3,040.0	3,008.1	2,953.9	2,953.2	9.7	14.2	-101.21	888.3	-698.8	1,153.7	1,132.8	20.93	55.133		
3,100.0	3,066.3	3,012.0	3,011.3	10.0	14.4	-101.93	888.5	-700.1	1,158.0	1,136.7	21.31	54.352		
3,135.0	3,100.3	3,045.8	3,045.1	10.1	14.4	-102.34	888.6	-700.9	1,160.5	1,139.0	21.52	53.918		
3,200.0	3,163.3	3,109.1	3,108.3	10.4	14.6	-103.11	888.8	-702.3	1,165.5	1,143.6	21.91	53.197		
3,230.0	3,192.4	3,138.7	3,137.9	10.5	14.7	-103.47	888.9	-703.0	1,167.8	1,145.7	22.07	52.916		
3,300.0	3,260.4	3,201.2	3,200.5	10.8	14.8	-104.22	889.0	-704.4	1,173.4	1,151.0	22.45	52.273		
3,325.0	3,284.6	3,219.3	3,218.5	10.9	14.9	-104.45	888.9	-705.1	1,175.6	1,153.1	22.58	52.055		
3,400.0	3,357.4	3,278.0	3,277.1	11.2	15.1	-105.25	888.0	-708.3	1,183.3	1,160.3	23.02	51.412		
3,420.0	3,376.8	3,288.2	3,287.2	11.3	15.2	-105.39	887.7	-709.1	1,185.6	1,162.5	23.11	51.295		
3,500.0	3,454.4	3,350.6	3,349.3	11.7	15.6	-106.32	885.5	-714.5	1,195.5	1,171.9	23.65	50.543		
3,515.0	3,469.0	3,362.1	3,360.8	11.7	15.7	-106.50	885.0	-715.7	1,197.5	1,173.8	23.76	50.411		
3,600.0	3,551.4	3,442.6	3,440.8	12.1	16.1	-107.76	880.9	-724.3	1,209.5	1,185.1	24.39	49.579		
3,610.0	3,561.1	3,452.5	3,450.6	12.2	16.1	-107.91	880.4	-725.3	1,210.9	1,186.4	24.47	49.480		
3,700.0	3,648.5	3,541.5	3,539.0	12.6	16.6	-109.28	875.7	-734.4	1,224.0	1,198.8	25.18	48.607		
3,705.0	3,653.3	3,546.5	3,543.9	12.6	16.6	-109.35	875.4	-734.9	1,224.7	1,199.5	25.22	48.559		
3,800.0	3,745.5	3,638.4	3,635.3	13.0	17.0	-110.73	870.5	-744.1	1,238.9	1,213.0	25.94	47.756		
3,895.0	3,837.7	3,729.9	3,726.2	13.4	17.4	-112.07	865.5	-753.0	1,253.7	1,227.1	26.63	47.081		
3,900.0	3,842.5	3,734.7	3,731.0	13.5	17.4	-112.14	865.3	-753.5	1,254.5	1,227.8	26.67	47.046		
3,990.0	3,929.9	3,826.5	3,822.2	13.9	17.8	-113.47	859.7	-762.3	1,268.8	1,241.4	27.43	46.251		
4,000.0	3,939.6	3,836.8	3,832.4	13.9	17.8	-113.62	859.0	-763.3	1,270.4	1,242.9	27.52	46.157		
4,085.0	4,022.0	3,924.0	3,918.9	14.3	18.2	-114.93	851.9	-771.8	1,284.1	1,255.8	28.31	45.361		
4,100.0	4,036.6	3,939.3	3,934.1	14.4	18.3	-115.17	850.4	-773.3	1,286.5	1,258.0	28.45	45.221		
4,180.0	4,114.2	4,018.8	4,012.8	14.7	18.7	-116.37	842.9	-781.0	1,299.5	1,270.4	29.16	44.565		
4,200.0	4,133.6	4,038.7	4,032.5	14.8	18.8	-116.67	841.0	-782.9	1,302.8	1,273.5	29.34	44.406		
4,275.0	4,206.4	4,113.3	4,106.5	15.2	19.1	-117.76	834.0	-789.7	1,315.3	1,285.3	30.02	43.822		
4,300.0	4,230.6	4,138.3	4,131.3	15.3	19.2	-118.12	831.7	-791.9	1,319.6	1,289.3	30.24	43.635 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 #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - WHITE CITY 21 25 27 FEDERAL COM #6H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 430-MWD													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	12.75	12.75	888.5	201.0	911.6				
95.0	95.0	63.1	63.1	3.0	3.2	12.75	12.75	888.4	201.0	910.9	904.7	6.19	147.246	
100.0	100.0	68.3	68.3	3.0	3.2	12.75	12.75	888.4	201.0	910.9	904.7	6.22	146.520	
190.0	190.0	160.8	160.8	3.1	4.0	12.76	12.76	888.1	201.2	910.6	903.5	7.10	128.307	
200.0	200.0	171.1	171.1	3.1	4.1	12.76	12.76	888.0	201.2	910.5	903.3	7.22	126.026	
285.0	285.0	258.5	258.5	3.3	5.2	12.79	12.79	887.4	201.4	910.0	901.6	8.39	108.447	
300.0	300.0	273.9	273.9	3.3	5.4	12.79	12.79	887.2	201.4	909.9	901.2	8.62	105.599	
380.0	380.0	356.2	356.2	3.4	6.6	12.82	12.82	886.4	201.8	909.1	899.2	9.86	92.235	
400.0	400.0	376.7	376.7	3.4	6.9	12.83	12.83	886.1	201.8	908.9	898.7	10.18	89.289	
475.0	475.0	453.4	453.4	3.5	7.9	12.87	12.87	885.0	202.2	907.9	896.7	11.22	80.898	
500.0	500.0	478.6	478.6	3.5	8.1	12.88	12.88	884.7	202.4	907.6	896.2	11.44	79.329	
570.0	570.0	549.2	549.2	3.6	8.6	12.92	12.92	883.6	202.7	906.6	894.6	12.05	75.243	
600.0	600.0	579.5	579.4	3.6	8.9	12.94	12.94	883.1	202.9	906.2	893.9	12.31	73.596	
665.0	665.0	644.9	644.9	3.7	9.2	12.97	12.97	882.1	203.2	905.3	892.5	12.77	70.908	
700.0	700.0	680.1	680.0	3.8	9.4	12.99	12.99	881.5	203.4	904.7	891.8	12.92	70.045	
760.0	760.0	740.3	740.3	3.8	9.5	13.03	13.03	880.5	203.7	903.8	890.7	13.17	68.621	
800.0	800.0	780.5	780.4	3.9	9.7	13.05	13.05	879.8	203.9	903.2	889.9	13.34	67.694	
855.0	855.0	835.8	835.8	4.0	9.8	13.08	13.08	878.8	204.2	902.3	888.8	13.58	66.455	
900.0	900.0	881.2	881.1	4.0	10.0	13.11	13.11	878.0	204.5	901.6	887.8	13.77	65.461	
950.0	950.0	931.5	931.4	4.1	10.1	13.14	13.14	877.1	204.8	900.8	886.8	13.99	64.393	
1,000.0	1,000.0	981.9	981.8	4.1	10.3	13.18	13.18	876.1	205.1	900.0	885.7	14.21	63.350	
1,045.0	1,045.0	1,027.1	1,027.0	4.2	10.5	13.21	13.21	875.3	205.4	899.2	884.8	14.40	62.435	
1,100.0	1,100.0	1,082.4	1,082.3	4.2	10.6	13.24	13.24	874.2	205.7	898.2	883.6	14.64	61.342	
1,140.0	1,140.0	1,122.7	1,122.5	4.3	10.8	13.26	13.26	873.4	205.8	897.5	882.7	14.82	60.572	
1,200.0	1,200.0	1,183.0	1,182.9	4.4	11.0	13.29	13.29	872.2	206.1	896.4	881.3	15.08	59.447	
1,235.0	1,235.0	1,218.5	1,218.3	4.4	11.1	13.31	13.31	871.5	206.2	895.8	880.5	15.22	58.837	
1,300.0	1,300.0	1,284.4	1,284.2	4.5	11.3	13.33	13.33	870.2	206.2	894.5	879.0	15.49	57.728	
1,330.0	1,330.0	1,314.8	1,314.6	4.5	11.4	13.34	13.34	869.6	206.3	893.9	878.3	15.62	57.229	
1,400.0	1,400.0	1,386.2	1,386.0	4.6	11.6	13.36	13.36	868.1	206.2	892.4	876.5	15.91	56.083	
1,425.0	1,425.0	1,412.2	1,412.0	4.6	11.7	13.37	13.37	867.5	206.2	891.9	875.8	16.02	55.674	
1,500.0	1,500.0	1,490.4	1,490.1	4.7	12.0	13.40	13.40	865.4	206.2	890.0	873.6	16.34	54.463	
1,520.0	1,520.0	1,511.2	1,511.0	4.7	12.0	-35.77	-35.77	864.8	206.3	889.4	873.0	16.43	54.123	
1,600.0	1,600.0	1,586.1	1,585.8	4.9	12.2	-35.81	-35.81	862.6	206.6	885.8	869.1	16.76	52.857	
1,615.0	1,615.0	1,597.9	1,597.6	4.9	12.3	-35.83	-35.83	862.4	206.6	885.1	868.3	16.81	52.647	
1,700.0	1,699.8	1,666.9	1,666.6	5.1	12.4	-36.03	-36.03	861.8	206.6	880.6	863.5	17.11	51.463	
1,710.0	1,709.8	1,676.6	1,676.4	5.1	12.4	-36.06	-36.06	861.8	206.5	880.0	862.8	17.15	51.314	
1,800.0	1,799.5	1,764.2	1,763.9	5.4	12.5	-36.45	-36.45	861.9	206.4	873.6	856.1	17.50	49.933	
1,805.0	1,804.4	1,769.0	1,768.8	5.4	12.5	-36.48	-36.48	862.0	206.4	873.2	855.7	17.52	49.854	
1,900.0	1,898.7	1,861.5	1,861.2	5.7	12.7	-37.03	-37.03	862.3	206.5	864.2	846.3	17.89	48.306	
1,995.0	1,992.5	1,955.0	1,954.8	6.0	12.9	-37.76	-37.76	862.7	206.7	852.8	834.5	18.29	46.632	
2,000.0	1,997.5	1,959.9	1,959.7	6.0	12.9	-37.80	-37.80	862.7	206.8	852.2	833.9	18.31	46.543	
2,090.0	2,085.8	2,048.2	2,047.9	6.3	13.2	-38.65	-38.65	863.1	207.1	839.2	820.5	18.69	44.909	
2,100.0	2,095.6	2,058.0	2,057.8	6.3	13.2	-38.76	-38.76	863.1	207.1	837.6	818.9	18.73	44.725	
2,185.0	2,178.5	2,141.3	2,141.0	6.6	13.4	-39.75	-39.75	863.5	207.4	823.2	804.1	19.08	43.135	
2,200.2	2,193.2	2,156.2	2,155.9	6.7	13.4	-39.94	-39.94	863.6	207.5	820.5	801.3	19.15	42.851	
2,280.0	2,270.7	2,234.0	2,233.7	6.9	13.6	-40.80	-40.80	863.9	207.7	805.9	786.5	19.44	41.455	
2,300.0	2,290.1	2,253.4	2,253.2	7.0	13.7	-41.03	-41.03	863.9	207.7	802.3	782.8	19.51	41.112	
2,375.0	2,362.9	2,326.5	2,326.2	7.2	13.9	-41.87	-41.87	864.2	207.9	788.8	769.0	19.80	39.845	
2,400.0	2,387.1	2,350.8	2,350.6	7.3	13.9	-42.16	-42.16	864.3	208.0	784.4	764.5	19.89	39.435	
2,470.0	2,455.0	2,419.0	2,418.7	7.5	14.1	-42.98	-42.98	864.5	208.2	772.0	751.8	20.15	38.306	
2,500.0	2,484.1	2,448.3	2,448.1	7.7	14.2	-43.34	-43.34	864.6	208.3	766.7	746.4	20.27	37.832	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - WHITE CITY 21 25 27 FEDERAL COM #6H - OWB - AWP											Offset Site Error:	0.0 usft
Survey Program: 430-MWD											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		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
2,565.0	2,547.2	2,512.0	2,511.7	7.9	14.3	-44.14	864.8	208.5	755.4	734.8	20.52	36.819
2,600.0	2,581.2	2,546.2	2,545.9	8.0	14.4	-44.58	864.8	208.7	749.3	728.6	20.65	36.287
2,660.0	2,639.4	2,604.9	2,604.6	8.2	14.5	-45.34	864.9	208.9	739.0	718.1	20.88	35.391
2,700.0	2,678.2	2,643.8	2,643.6	8.4	14.6	-45.86	865.0	209.1	732.2	711.1	21.03	34.809
2,755.0	2,731.6	2,697.2	2,696.9	8.6	14.8	-46.60	865.0	209.2	722.9	701.6	21.25	34.026
2,800.0	2,775.2	2,740.8	2,740.6	8.8	14.9	-47.21	865.1	209.3	715.4	694.0	21.41	33.406
2,850.0	2,823.7	2,789.3	2,789.0	9.0	15.0	-47.92	865.2	209.4	707.2	685.6	21.60	32.737
2,900.0	2,872.3	2,837.7	2,837.4	9.2	15.2	-48.64	865.2	209.4	699.1	677.2	21.83	32.030
2,945.0	2,915.9	2,881.2	2,880.9	9.3	15.3	-49.30	865.3	209.3	691.9	669.8	22.04	31.386
3,000.0	2,969.3	2,934.3	2,934.0	9.6	15.5	-50.13	865.4	209.3	683.2	660.9	22.30	30.632
3,040.0	3,008.1	2,972.9	2,972.7	9.7	15.6	-50.75	865.5	209.3	677.1	654.6	22.49	30.103
3,100.0	3,066.3	3,031.1	3,030.8	10.0	15.8	-51.70	865.7	209.2	668.0	645.2	22.78	29.325
3,135.0	3,100.3	3,065.1	3,064.8	10.1	16.0	-52.27	865.8	209.1	662.8	639.8	22.95	28.881
3,200.0	3,163.3	3,128.2	3,127.9	10.4	16.2	-53.35	866.0	209.0	653.3	630.0	23.26	28.090
3,230.0	3,192.4	3,157.3	3,157.0	10.5	16.3	-53.86	866.0	209.0	649.0	625.6	23.40	27.738
3,300.0	3,260.4	3,225.4	3,225.1	10.8	16.5	-55.07	866.2	208.9	639.1	615.4	23.71	26.957
3,325.0	3,284.6	3,249.8	3,249.5	10.9	16.6	-55.51	866.3	208.9	635.7	611.9	23.82	26.690
3,400.0	3,357.4	3,322.9	3,322.6	11.2	16.9	-56.86	866.4	208.8	625.5	601.4	24.13	25.923
3,420.0	3,376.8	3,342.4	3,342.1	11.3	17.0	-57.23	866.5	208.8	622.9	598.7	24.21	25.726
3,500.0	3,454.4	3,420.6	3,420.3	11.7	17.2	-58.74	866.6	208.8	612.5	588.0	24.48	25.019
3,515.0	3,469.0	3,435.3	3,435.0	11.7	17.2	-59.02	866.6	208.7	610.6	586.1	24.52	24.898
3,600.0	3,551.4	3,518.5	3,518.2	12.1	17.4	-60.69	866.6	208.7	600.0	575.3	24.76	24.238
3,610.0	3,561.1	3,528.3	3,528.0	12.2	17.4	-60.89	866.6	208.7	598.8	574.0	24.78	24.163
3,700.0	3,648.5	3,615.7	3,615.5	12.6	17.6	-62.71	866.5	208.7	588.2	563.2	25.01	23.513
3,705.0	3,653.3	3,620.6	3,620.3	12.6	17.7	-62.81	866.5	208.7	587.6	562.6	25.03	23.479
3,800.0	3,745.5	3,712.3	3,712.1	13.0	17.9	-64.79	866.4	208.6	577.1	551.9	25.26	22.846
3,895.0	3,837.7	3,804.5	3,804.3	13.4	18.1	-66.86	866.3	208.4	567.5	542.0	25.50	22.251
3,900.0	3,842.5	3,809.4	3,809.1	13.5	18.2	-66.97	866.3	208.4	567.0	541.5	25.52	22.220
3,990.0	3,929.9	3,897.2	3,896.9	13.9	18.4	-69.00	866.2	208.3	558.5	532.8	25.76	21.685
4,000.0	3,939.6	3,906.9	3,906.6	13.9	18.4	-69.23	866.2	208.2	557.6	531.9	25.78	21.627
4,085.0	4,022.0	3,989.5	3,989.2	14.3	18.6	-71.20	866.0	208.1	550.4	524.4	26.01	21.162
4,100.0	4,036.6	4,004.0	4,003.7	14.4	18.7	-71.56	866.0	208.0	549.2	523.1	26.05	21.084
4,180.0	4,114.2	4,081.5	4,081.2	14.7	18.9	-73.47	865.8	207.8	543.1	516.8	26.26	20.684
4,200.0	4,133.6	4,100.8	4,100.5	14.8	19.0	-73.95	865.7	207.7	541.7	515.4	26.31	20.587
4,275.0	4,206.4	4,173.5	4,173.2	15.2	19.2	-75.79	865.5	207.5	536.7	510.2	26.52	20.235
4,300.0	4,230.6	4,197.8	4,197.5	15.3	19.3	-76.41	865.5	207.4	535.2	508.6	26.60	20.120
4,370.0	4,298.6	4,265.7	4,265.4	15.6	19.5	-78.17	865.3	207.2	531.3	504.5	26.82	19.807
4,400.0	4,327.7	4,294.8	4,294.5	15.7	19.6	-78.93	865.2	207.1	529.8	502.9	26.93	19.677
4,465.0	4,390.7	4,357.8	4,357.5	16.0	19.7	-80.59	865.0	206.8	526.9	499.7	27.16	19.401
4,500.0	4,424.7	4,391.7	4,391.4	16.2	19.8	-81.49	864.9	206.7	525.5	498.2	27.29	19.256
4,560.0	4,482.9	4,449.7	4,449.4	16.5	20.0	-83.03	864.8	206.6	523.4	495.9	27.53	19.013
4,600.0	4,521.7	4,488.4	4,488.1	16.7	20.1	-84.07	864.7	206.5	522.3	494.6	27.70	18.856
4,655.0	4,575.1	4,541.7	4,541.4	16.9	20.3	-85.49	864.6	206.3	521.1	493.1	27.95	18.642
4,700.0	4,618.8	4,585.3	4,585.0	17.1	20.4	-86.67	864.5	206.2	520.3	492.1	28.17	18.469
4,750.0	4,667.3	4,633.8	4,633.5	17.4	20.6	-87.98	864.4	206.0	519.7	491.3	28.41	18.293
4,755.7	4,672.8	4,639.3	4,639.0	17.4	20.6	-88.13	864.4	206.0	519.7	491.3	28.44	18.273
4,800.0	4,715.9	4,682.3	4,682.0	17.6	20.7	-89.26	864.3	205.9	519.5	490.8	28.67	18.122
4,825.0	4,740.3	4,706.7	4,706.4	17.7	20.8	-89.86	864.2	205.8	519.4	490.6	28.80	18.034
4,845.0	4,759.8	4,726.1	4,725.8	17.8	20.9	-90.34	864.2	205.7	519.5	490.6	28.91	17.965
4,900.0	4,813.6	4,779.8	4,779.5	18.1	21.0	-91.56	864.1	205.5	519.7	490.5	29.23	17.783
4,940.0	4,852.9	4,819.0	4,818.7	18.3	21.1	-92.38	864.1	205.4	520.0	490.6	29.45	17.658

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - WHITE CITY 21 25 27 FEDERAL COM #6H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 430-MWD												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre	Distance	Rule Assigned:							
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)	Minimum Separation (usft)	Separation Factor	Warning
5,000.0	4,912.1	4,878.0	4,877.7	18.5	21.3	-93.49	864.1	205.3	520.6	490.8	29.79	17.475	
5,035.0	4,946.7	4,912.6	4,912.4	18.7	21.4	-94.08	864.1	205.3	521.0	491.0	29.98	17.378	
5,100.0	5,011.1	4,977.6	4,977.4	19.0	21.5	-95.05	864.2	205.3	521.8	491.5	30.31	17.214	
5,130.0	5,040.9	5,010.3	5,010.0	19.1	21.7	-95.47	864.2	205.4	522.1	491.6	30.47	17.134	
5,200.0	5,110.5	5,097.7	5,097.4	19.4	22.1	-96.57	861.9	205.9	521.3	490.4	30.89	16.877	
5,225.0	5,135.4	5,130.2	5,129.8	19.5	22.4	-96.98	860.0	206.2	520.3	489.3	31.03	16.766	
5,300.0	5,210.2	5,218.0	5,217.2	19.8	22.9	-98.08	852.2	207.6	515.6	484.1	31.46	16.388	
5,320.0	5,230.2	5,237.8	5,236.9	19.9	23.0	-98.31	850.3	207.9	514.2	482.6	31.57	16.286	
5,400.0	5,310.2	5,316.4	5,315.1	20.1	23.2	-99.06	842.4	209.2	508.4	476.4	31.98	15.895	
5,415.0	5,325.1	5,331.0	5,329.7	20.1	23.2	-99.17	841.0	209.4	507.3	475.2	32.05	15.829	
5,455.9	5,366.0	5,370.8	5,369.3	20.2	23.4	-50.28	837.0	210.0	504.3	472.1	32.22	15.651	
5,500.0	5,410.1	5,414.1	5,412.3	20.2	23.5	-50.61	832.8	210.5	501.1	468.7	32.40	15.466	
5,510.0	5,420.1	5,423.9	5,422.1	20.2	23.5	-50.69	831.8	210.6	500.4	468.0	32.45	15.423	
5,600.0	5,510.1	5,512.0	5,509.8	20.3	23.8	-51.38	823.3	211.6	494.2	461.3	32.85	15.043	
5,605.0	5,515.1	5,516.9	5,514.6	20.3	23.8	-51.42	822.9	211.6	493.8	461.0	32.87	15.023	
5,700.0	5,610.1	5,610.3	5,607.6	20.3	24.0	-52.16	814.2	212.5	487.7	454.4	33.31	14.642	
5,795.0	5,705.1	5,704.4	5,701.3	20.3	24.3	-52.92	805.4	213.2	481.7	447.9	33.75	14.273	
5,800.0	5,710.1	5,709.3	5,706.3	20.3	24.3	-52.96	805.0	213.3	481.4	447.6	33.77	14.254	
5,890.0	5,800.1	5,796.7	5,793.3	20.4	24.6	-53.63	797.4	214.2	476.0	441.8	34.18	13.925	
5,900.0	5,810.1	5,806.1	5,802.7	20.4	24.6	-53.70	796.7	214.2	475.4	441.2	34.23	13.891	
5,985.0	5,895.1	5,887.7	5,884.0	20.4	24.9	-54.26	790.5	214.8	471.1	436.5	34.61	13.614	
6,000.0	5,910.1	5,902.4	5,898.7	20.4	24.9	-54.36	789.4	214.9	470.4	435.7	34.67	13.566	
6,080.0	5,990.1	5,981.6	5,977.8	20.5	25.1	-54.85	784.0	215.6	466.8	431.7	35.04	13.321	
6,100.0	6,010.1	6,001.8	5,997.9	20.5	25.2	-54.99	782.6	215.7	465.8	430.7	35.13	13.259	
6,175.0	6,085.1	6,076.7	6,072.5	20.5	25.4	-55.58	776.7	215.8	462.4	426.9	35.50	13.027	
6,200.0	6,110.1	6,101.3	6,097.1	20.5	25.5	-55.77	774.8	215.8	461.3	425.7	35.61	12.952	
6,270.0	6,180.1	6,169.0	6,164.6	20.6	25.7	-56.25	770.0	216.1	458.3	422.3	35.94	12.752	
6,300.0	6,210.1	6,197.3	6,192.8	20.6	25.8	-56.43	768.2	216.1	457.2	421.1	36.07	12.674	
6,365.0	6,275.1	6,261.2	6,256.6	20.6	26.0	-56.85	764.3	216.0	455.0	418.7	36.37	12.511	
6,400.0	6,310.1	6,298.1	6,293.5	20.6	26.1	-57.10	761.9	216.0	453.8	417.3	36.55	12.416	
6,460.0	6,370.1	6,358.2	6,353.4	20.6	26.3	-57.57	757.6	216.0	451.5	414.6	36.85	12.252	
6,500.0	6,410.1	6,395.8	6,390.9	20.7	26.4	-57.83	755.1	216.0	450.1	413.1	37.03	12.156	
6,555.0	6,465.1	6,449.2	6,444.2	20.7	26.6	-58.16	752.1	216.0	448.5	411.2	37.28	12.031	
6,600.0	6,510.1	6,494.9	6,489.9	20.7	26.7	-58.45	749.5	215.9	447.2	409.7	37.50	11.926	
6,650.0	6,560.1	6,545.6	6,540.5	20.7	26.9	-58.79	746.4	215.8	445.7	407.9	37.74	11.807	
6,700.0	6,610.1	6,596.2	6,590.9	20.8	27.0	-59.10	743.5	216.0	444.1	406.1	37.99	11.690	
6,745.0	6,655.1	6,641.1	6,635.7	20.8	27.2	-59.35	741.1	216.2	442.6	404.4	38.20	11.587	
6,800.0	6,710.1	6,695.2	6,689.8	20.8	27.3	-59.64	738.3	216.5	440.9	402.4	38.45	11.466	
6,840.0	6,750.1	6,734.4	6,729.0	20.8	27.5	-59.85	736.4	216.7	439.7	401.1	38.63	11.382	
6,900.0	6,810.1	6,793.0	6,787.5	20.9	27.7	-60.13	733.7	217.0	438.1	399.2	38.90	11.262	
6,935.0	6,845.1	6,825.6	6,820.1	20.9	27.8	-60.27	732.4	217.1	437.3	398.3	39.05	11.199	
7,000.0	6,910.1	6,884.2	6,878.6	20.9	27.9	-60.46	730.8	217.0	436.5	397.2	39.29	11.111	
7,020.9	6,931.1	6,903.0	6,897.5	20.9	28.0	-60.49	730.6	216.9	436.5	397.1	39.36	11.089 CC	
7,030.0	6,940.1	6,912.0	6,906.4	20.9	28.0	-60.51	730.5	216.9	436.5	397.1	39.40	11.078	
7,100.0	7,010.1	6,981.0	6,975.5	20.9	28.3	-60.63	729.7	216.4	436.6	396.9	39.69	10.999 ES	
7,125.0	7,035.1	7,002.0	6,996.4	21.0	28.3	-60.65	729.6	216.2	436.7	396.9	39.76	10.983 SF	
7,200.0	7,110.1	7,054.0	7,048.4	21.0	28.5	-60.44	731.9	215.3	439.4	399.6	39.81	11.039	
7,220.0	7,130.1	7,068.5	7,062.8	21.0	28.6	-60.29	733.4	215.0	440.8	401.0	39.80	11.075	
7,300.0	7,210.1	7,117.0	7,110.5	21.0	28.7	-59.39	741.9	214.3	449.3	409.7	39.60	11.346	
7,315.0	7,225.1	7,130.3	7,123.4	21.1	28.8	-59.05	745.1	214.1	451.4	411.8	39.59	11.401	
7,400.0	7,310.1	7,181.0	7,171.6	21.1	28.9	-57.45	760.6	212.9	467.4	428.1	39.22	11.918	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 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		
7,410.0	7,320.1	7,188.1	7,178.3	21.1	28.9	-57.20	763.2	212.7	469.6	430.4	39.18	11.986		
7,500.0	7,410.1	7,245.0	7,230.0	21.1	29.1	-54.90	786.8	211.0	493.8	455.0	38.76	12.741		
7,505.0	7,415.1	7,245.0	7,230.0	21.1	29.1	-54.90	786.8	211.0	495.3	456.6	38.68	12.804		
7,600.0	7,510.1	7,297.3	7,275.3	21.2	29.2	-52.50	812.7	209.6	527.9	489.8	38.11	13.853		
7,695.0	7,605.1	7,340.0	7,310.5	21.2	29.3	-50.40	837.0	208.3	567.8	530.4	37.43	15.170		
7,700.0	7,610.1	7,340.0	7,310.5	21.2	29.3	-50.40	837.0	208.3	570.1	532.8	37.35	15.263		
7,790.0	7,700.1	7,380.5	7,341.9	21.3	29.4	-48.34	862.6	206.9	614.7	577.9	36.80	16.703		
7,800.0	7,710.1	7,384.3	7,344.7	21.3	29.4	-48.14	865.1	206.7	620.0	583.3	36.73	16.879		
7,885.0	7,795.1	7,415.1	7,367.1	21.3	29.5	-46.56	886.2	205.5	667.9	631.7	36.17	18.467		
7,900.0	7,810.1	7,420.3	7,370.7	21.3	29.5	-46.29	889.9	205.3	676.8	640.8	36.07	18.763		
7,980.0	7,890.1	7,446.7	7,388.7	21.4	29.6	-44.94	909.2	204.1	726.6	691.0	35.60	20.410		
8,000.0	7,910.1	7,453.0	7,392.8	21.4	29.6	-44.61	913.9	203.9	739.6	704.1	35.49	20.841		
8,075.0	7,985.1	7,467.0	7,401.9	21.4	29.6	-43.89	924.6	203.3	790.1	755.2	34.93	22.621		
8,100.0	8,010.1	7,481.8	7,411.1	21.4	29.7	-43.14	936.1	202.7	807.4	772.4	34.95	23.099		
8,170.0	8,080.1	7,499.0	7,421.4	21.5	29.7	-42.27	949.9	202.1	857.4	822.8	34.61	24.774		
8,200.0	8,110.1	7,499.0	7,421.4	21.5	29.7	-42.27	949.9	202.1	879.5	845.2	34.34	25.611		
8,265.0	8,175.1	7,531.0	7,439.4	21.5	29.8	-40.66	976.3	201.1	928.4	894.0	34.39	26.995		
8,300.0	8,210.1	7,531.0	7,439.4	21.5	29.8	-40.66	976.3	201.1	955.1	921.0	34.12	27.991		
8,360.0	8,270.1	7,541.0	7,444.6	21.6	29.8	-40.16	984.8	200.8	1,002.0	968.2	33.88	29.580		
8,400.0	8,310.1	7,548.7	7,448.6	21.6	29.8	-39.78	991.4	200.7	1,033.9	1,000.1	33.75	30.634		
8,455.0	8,365.1	7,562.0	7,455.2	21.6	29.8	-39.12	1,003.0	200.4	1,078.3	1,044.7	33.65	32.046		
8,500.0	8,410.1	7,562.0	7,455.2	21.6	29.8	-39.12	1,003.0	200.4	1,115.2	1,081.8	33.41	33.379		
8,550.0	8,460.1	7,573.4	7,460.5	21.7	29.8	-38.56	1,013.1	200.3	1,156.7	1,123.3	33.35	34.684		
8,600.0	8,510.1	7,580.4	7,463.7	21.7	29.9	-38.22	1,019.3	200.2	1,198.7	1,165.4	33.24	36.061		
8,645.0	8,555.1	7,594.0	7,469.7	21.7	29.9	-37.56	1,031.5	200.0	1,237.0	1,203.7	33.27	37.183		
8,700.0	8,610.1	7,594.0	7,469.7	21.7	29.9	-37.56	1,031.5	200.0	1,284.1	1,251.0	33.07	38.824		
8,740.0	8,650.1	7,594.0	7,469.7	21.8	29.9	-37.56	1,031.5	200.0	1,318.7	1,285.7	32.95	40.020		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to *RKB 32ft + GL 3150.6ft @ 3182.6usft

Offset Depths are relative to Offset Datum

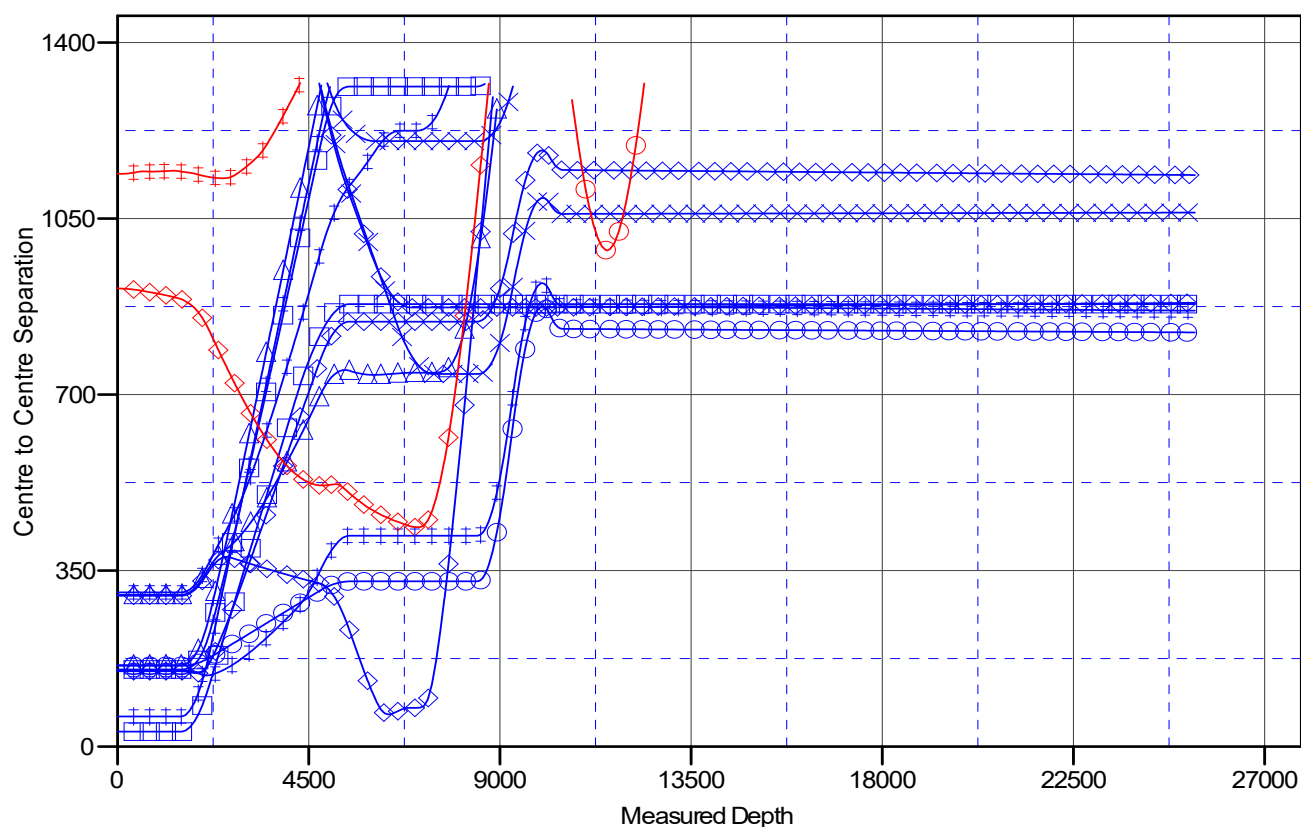
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: FLAMING SNAIL FEDERAL COM #804H

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

Grid Convergence at Surface is: 0.07°

Ladder Plot



LEGEND

FLAMING SNAIL FEDERAL COM #503H, OWB, PWP0 V0	FLAMING SNAIL FEDERAL COM #707H, OWB, PWP1 V0	FLAMING SNAIL FEDERAL COM #806H, OWB, PWP1 V0
FLAMING SNAIL FEDERAL COM #504H, OWB, PWP0 V0	FLAMING SNAIL FEDERAL COM #708H, OWB, PWP1 V0	LEONARDO BKL FEDERAL COM #1, OWB, AWP V0
FLAMING SNAIL FEDERAL COM #521H, OWB, PWP0 V0	FLAMING SNAIL FEDERAL COM #709H, OWB, PWP1 V0	WHITE CITY 21 25 27 FEDERAL COM #5H, OWB, AWP V0
FLAMING SNAIL FEDERAL COM #704H, OWB, PWP1 V0	FLAMING SNAIL FEDERAL COM #710H, 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 #803H, OWB, PWP1 V0	
FLAMING SNAIL FEDERAL COM #706H, OWB, PWP1 V0	FLAMING SNAIL FEDERAL COM #805H, OWB, PWP1 V0	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #804H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to *RKB 32ft + GL 3150.6ft @ 3182.6usft

Offset Depths are relative to Offset Datum

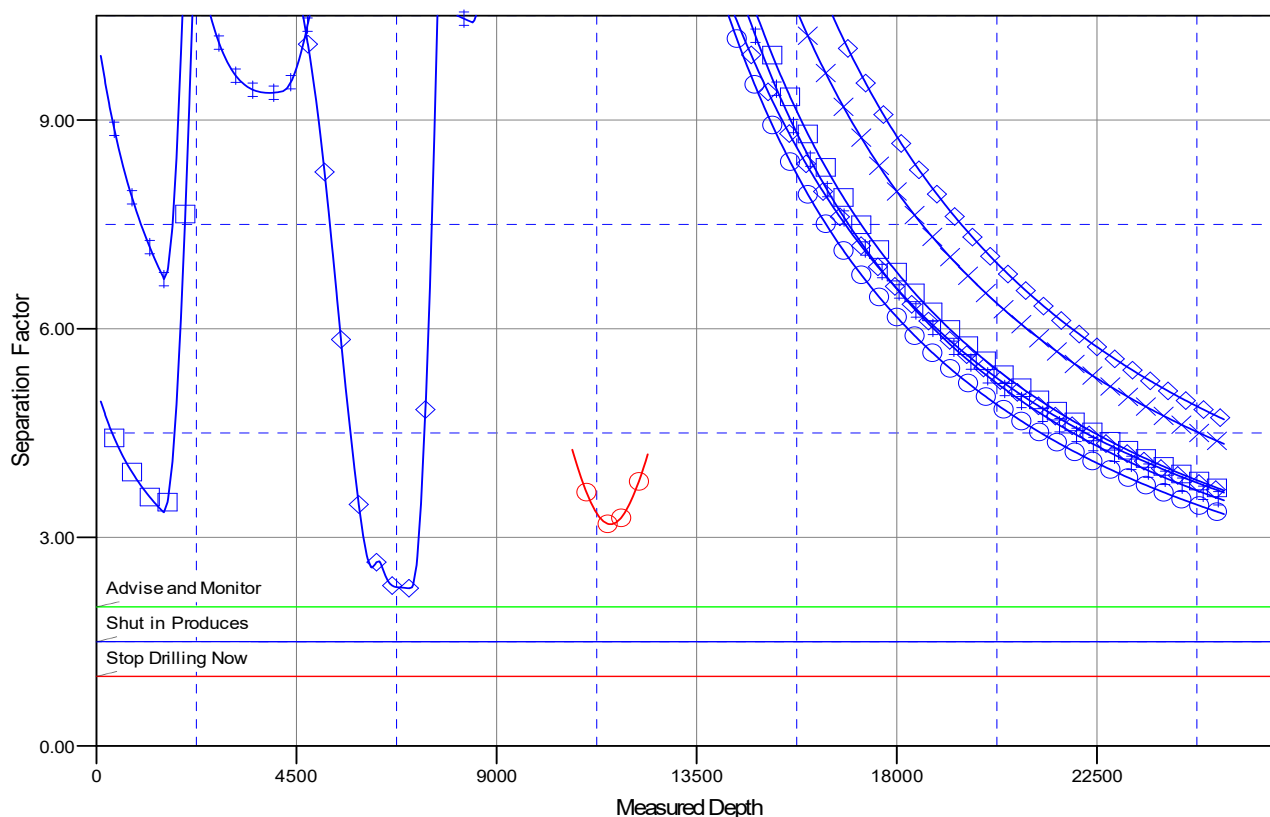
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: FLAMING SNAIL FEDERAL COM #804H

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

Grid Convergence at Surface is: 0.07°

Separation Factor Plot



LEGEND

FLAMING SNAIL FEDERAL COM #503H, OWB, PWP0 V0	FLAMING SNAIL FEDERAL COM #707H, OWB, PWP1 V0	FLAMING SNAIL FEDERAL COM #806H, OWB, PWP1 V0
FLAMING SNAIL FEDERAL COM #504H, OWB, PWP0 V0	FLAMING SNAIL FEDERAL COM #708H, OWB, PWP1 V0	LEONARDO BKL FEDERAL COM #1, OWB, AWP V0
FLAMING SNAIL FEDERAL COM #521H, OWB, PWP0 V0	FLAMING SNAIL FEDERAL COM #709H, OWB, PWP1 V0	WHITE CITY 21 25 27 FEDERAL COM #5H, OWB, AWP V0
FLAMING SNAIL FEDERAL COM #704H, OWB, PWP1 V0	FLAMING SNAIL FEDERAL COM #710H, 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 #803H, OWB, PWP1 V0	
FLAMING SNAIL FEDERAL COM #706H, OWB, PWP1 V0	FLAMING SNAIL FEDERAL COM #805H, 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 #804H

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 #804H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #804H	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 #804H					
Well Position	+N/-S	-493.2 usft	Northing:	402,528.50 usft	Latitude:	32° 6' 23.739 N
	+E/-W	1,755.1 usft	Easting:	542,067.00 usft	Longitude:	104° 11' 50.905 W
Position Uncertainty		3.0 usft	Wellhead Elevation:		Ground Level:	3,150.6 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2022	12/1/2023	6.78	59.68	47,314.47747920

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	178.28

Plan Survey Tool Program	Date	9/23/2022		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	1,500.0 PWP1 (OWB)	r.5 SDI_KPR_WL_NS-CT	SDI Keeper Wireline Gyrocomp
2	1,500.0	9,291.9 PWP1 (OWB)	r.5 MWD+IFR1	OWSG MWD + IFR1 rev.5
3	9,291.9	25,359.2 PWP1 (OWB)	r.5 MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-St

ConocoPhillips

Planning Report

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Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #804H	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	
2,200.2	14.00	49.17	2,193.2	55.7	64.4	2.00	2.00	0.00	49.17	
4,755.7	14.00	49.17	4,672.8	459.9	532.4	0.00	0.00	0.00	0.00	
5,455.9	0.00	0.00	5,366.0	515.6	596.8	2.00	-2.00	0.00	180.00	
9,291.9	0.00	0.00	9,202.0	515.6	596.8	0.00	0.00	0.00	0.00	VT (FLAMING SNAIL
10,191.6	89.97	180.51	9,775.0	-57.0	591.7	10.00	10.00	-19.95	180.51	
25,229.2	89.97	180.51	9,782.9	-15,094.0	458.5	0.00	0.00	0.00	0.00	LTP (FLAMING SNAII
25,359.2	89.97	180.51	9,783.0	-15,224.0	457.3	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 #804H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #804H	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	49.17	1,600.0	1.1	1.3	-1.1	2.00	2.00	0.00
1,700.0	4.00	49.17	1,699.8	4.6	5.3	-4.4	2.00	2.00	0.00
1,800.0	6.00	49.17	1,799.5	10.3	11.9	-9.9	2.00	2.00	0.00
1,900.0	8.00	49.17	1,898.7	18.2	21.1	-17.6	2.00	2.00	0.00
2,000.0	10.00	49.17	1,997.5	28.5	32.9	-27.5	2.00	2.00	0.00
2,100.0	12.00	49.17	2,095.6	40.9	47.4	-39.5	2.00	2.00	0.00
2,200.2	14.00	49.17	2,193.2	55.7	64.4	-53.7	2.00	2.00	0.00
Start 2555.5 hold at 2200.2 MD									
2,300.0	14.00	49.17	2,290.1	71.5	82.7	-68.9	0.00	0.00	0.00
2,400.0	14.00	49.17	2,387.1	87.3	101.0	-84.2	0.00	0.00	0.00
2,500.0	14.00	49.17	2,484.1	103.1	119.3	-99.5	0.00	0.00	0.00
2,600.0	14.00	49.17	2,581.2	118.9	137.6	-114.7	0.00	0.00	0.00
2,700.0	14.00	49.17	2,678.2	134.7	156.0	-130.0	0.00	0.00	0.00
2,800.0	14.00	49.17	2,775.2	150.6	174.3	-145.3	0.00	0.00	0.00
2,900.0	14.00	49.17	2,872.3	166.4	192.6	-160.5	0.00	0.00	0.00
3,000.0	14.00	49.17	2,969.3	182.2	210.9	-175.8	0.00	0.00	0.00
3,100.0	14.00	49.17	3,066.3	198.0	229.2	-191.0	0.00	0.00	0.00
3,200.0	14.00	49.17	3,163.3	213.8	247.5	-206.3	0.00	0.00	0.00
3,300.0	14.00	49.17	3,260.4	229.7	265.8	-221.6	0.00	0.00	0.00
3,400.0	14.00	49.17	3,357.4	245.5	284.1	-236.8	0.00	0.00	0.00
3,500.0	14.00	49.17	3,454.4	261.3	302.4	-252.1	0.00	0.00	0.00
3,600.0	14.00	49.17	3,551.4	277.1	320.8	-267.4	0.00	0.00	0.00
3,700.0	14.00	49.17	3,648.5	292.9	339.1	-282.6	0.00	0.00	0.00
3,800.0	14.00	49.17	3,745.5	308.8	357.4	-297.9	0.00	0.00	0.00
3,900.0	14.00	49.17	3,842.5	324.6	375.7	-313.1	0.00	0.00	0.00
4,000.0	14.00	49.17	3,939.6	340.4	394.0	-328.4	0.00	0.00	0.00
4,100.0	14.00	49.17	4,036.6	356.2	412.3	-343.7	0.00	0.00	0.00
4,200.0	14.00	49.17	4,133.6	372.0	430.6	-358.9	0.00	0.00	0.00
4,300.0	14.00	49.17	4,230.6	387.9	448.9	-374.2	0.00	0.00	0.00
4,400.0	14.00	49.17	4,327.7	403.7	467.2	-389.5	0.00	0.00	0.00
4,500.0	14.00	49.17	4,424.7	419.5	485.6	-404.7	0.00	0.00	0.00
4,600.0	14.00	49.17	4,521.7	435.3	503.9	-420.0	0.00	0.00	0.00
4,700.0	14.00	49.17	4,618.8	451.1	522.2	-435.2	0.00	0.00	0.00
4,755.7	14.00	49.17	4,672.8	459.9	532.4	-443.7	0.00	0.00	0.00
Start Drop -2.00									
4,800.0	13.12	49.17	4,715.9	466.7	540.2	-450.3	2.00	-2.00	0.00

ConocoPhillips

Planning Report

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Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #804H	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	11.12	49.17	4,813.6	480.5	556.1	-463.5	2.00	-2.00	0.00
5,000.0	9.12	49.17	4,912.1	491.9	569.4	-474.6	2.00	-2.00	0.00
5,100.0	7.12	49.17	5,011.1	501.2	580.1	-483.5	2.00	-2.00	0.00
5,200.0	5.12	49.17	5,110.5	508.1	588.2	-490.2	2.00	-2.00	0.00
5,300.0	3.12	49.17	5,210.2	512.8	593.6	-494.8	2.00	-2.00	0.00
5,400.0	1.12	49.17	5,310.2	515.2	596.4	-497.1	2.00	-2.00	0.00
5,455.9	0.00	0.00	5,366.0	515.6	596.8	-497.4	2.00	-2.00	0.00
Start 3836.0 hold at 5455.9 MD									
5,500.0	0.00	0.00	5,410.1	515.6	596.8	-497.4	0.00	0.00	0.00
5,600.0	0.00	0.00	5,510.1	515.6	596.8	-497.4	0.00	0.00	0.00
5,700.0	0.00	0.00	5,610.1	515.6	596.8	-497.4	0.00	0.00	0.00
5,800.0	0.00	0.00	5,710.1	515.6	596.8	-497.4	0.00	0.00	0.00
5,900.0	0.00	0.00	5,810.1	515.6	596.8	-497.4	0.00	0.00	0.00
6,000.0	0.00	0.00	5,910.1	515.6	596.8	-497.4	0.00	0.00	0.00
6,100.0	0.00	0.00	6,010.1	515.6	596.8	-497.4	0.00	0.00	0.00
6,200.0	0.00	0.00	6,110.1	515.6	596.8	-497.4	0.00	0.00	0.00
6,300.0	0.00	0.00	6,210.1	515.6	596.8	-497.4	0.00	0.00	0.00
6,400.0	0.00	0.00	6,310.1	515.6	596.8	-497.4	0.00	0.00	0.00
6,500.0	0.00	0.00	6,410.1	515.6	596.8	-497.4	0.00	0.00	0.00
6,600.0	0.00	0.00	6,510.1	515.6	596.8	-497.4	0.00	0.00	0.00
6,700.0	0.00	0.00	6,610.1	515.6	596.8	-497.4	0.00	0.00	0.00
6,800.0	0.00	0.00	6,710.1	515.6	596.8	-497.4	0.00	0.00	0.00
6,900.0	0.00	0.00	6,810.1	515.6	596.8	-497.4	0.00	0.00	0.00
7,000.0	0.00	0.00	6,910.1	515.6	596.8	-497.4	0.00	0.00	0.00
7,100.0	0.00	0.00	7,010.1	515.6	596.8	-497.4	0.00	0.00	0.00
7,200.0	0.00	0.00	7,110.1	515.6	596.8	-497.4	0.00	0.00	0.00
7,300.0	0.00	0.00	7,210.1	515.6	596.8	-497.4	0.00	0.00	0.00
7,400.0	0.00	0.00	7,310.1	515.6	596.8	-497.4	0.00	0.00	0.00
7,500.0	0.00	0.00	7,410.1	515.6	596.8	-497.4	0.00	0.00	0.00
7,600.0	0.00	0.00	7,510.1	515.6	596.8	-497.4	0.00	0.00	0.00
7,700.0	0.00	0.00	7,610.1	515.6	596.8	-497.4	0.00	0.00	0.00
7,800.0	0.00	0.00	7,710.1	515.6	596.8	-497.4	0.00	0.00	0.00
7,900.0	0.00	0.00	7,810.1	515.6	596.8	-497.4	0.00	0.00	0.00
8,000.0	0.00	0.00	7,910.1	515.6	596.8	-497.4	0.00	0.00	0.00
8,100.0	0.00	0.00	8,010.1	515.6	596.8	-497.4	0.00	0.00	0.00
8,200.0	0.00	0.00	8,110.1	515.6	596.8	-497.4	0.00	0.00	0.00
8,300.0	0.00	0.00	8,210.1	515.6	596.8	-497.4	0.00	0.00	0.00
8,400.0	0.00	0.00	8,310.1	515.6	596.8	-497.4	0.00	0.00	0.00
8,500.0	0.00	0.00	8,410.1	515.6	596.8	-497.4	0.00	0.00	0.00
8,600.0	0.00	0.00	8,510.1	515.6	596.8	-497.4	0.00	0.00	0.00
8,700.0	0.00	0.00	8,610.1	515.6	596.8	-497.4	0.00	0.00	0.00
8,800.0	0.00	0.00	8,710.1	515.6	596.8	-497.4	0.00	0.00	0.00
8,900.0	0.00	0.00	8,810.1	515.6	596.8	-497.4	0.00	0.00	0.00
9,000.0	0.00	0.00	8,910.1	515.6	596.8	-497.4	0.00	0.00	0.00
9,100.0	0.00	0.00	9,010.1	515.6	596.8	-497.4	0.00	0.00	0.00
9,200.0	0.00	0.00	9,110.1	515.6	596.8	-497.4	0.00	0.00	0.00
9,291.9	0.00	0.00	9,202.0	515.6	596.8	-497.4	0.00	0.00	0.00
Start DLS 10.00 TFO 180.51									
9,300.0	0.81	180.51	9,210.1	515.5	596.8	-497.4	10.00	10.00	0.00
9,350.0	5.81	180.51	9,260.0	512.7	596.8	-494.5	10.00	10.00	0.00
9,400.0	10.81	180.51	9,309.5	505.4	596.7	-487.3	10.00	10.00	0.00
9,450.0	15.81	180.51	9,358.1	493.9	596.6	-475.8	10.00	10.00	0.00
9,500.0	20.81	180.51	9,405.6	478.2	596.5	-460.1	10.00	10.00	0.00
9,550.0	25.81	180.51	9,451.5	458.4	596.3	-440.3	10.00	10.00	0.00

ConocoPhillips

Planning Report

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Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,600.0	30.81	180.51	9,495.5	434.7	596.1	-416.6	10.00	10.00	0.00
9,650.0	35.81	180.51	9,537.3	407.3	595.8	-389.2	10.00	10.00	0.00
9,700.0	40.81	180.51	9,576.5	376.3	595.6	-358.2	10.00	10.00	0.00
9,750.0	45.81	180.51	9,612.9	342.0	595.3	-324.0	10.00	10.00	0.00
9,800.0	50.81	180.51	9,646.1	304.7	594.9	-286.7	10.00	10.00	0.00
9,850.0	55.81	180.51	9,676.0	264.6	594.6	-246.6	10.00	10.00	0.00
9,900.0	60.81	180.51	9,702.2	222.1	594.2	-204.1	10.00	10.00	0.00
9,950.0	65.81	180.51	9,724.7	177.4	593.8	-159.5	10.00	10.00	0.00
10,000.0	70.81	180.51	9,743.2	131.0	593.4	-113.1	10.00	10.00	0.00
10,050.0	75.81	180.51	9,757.5	83.1	593.0	-65.3	10.00	10.00	0.00
10,100.0	80.81	180.51	9,767.6	34.2	592.5	-16.4	10.00	10.00	0.00
10,150.0	85.81	180.51	9,773.5	-15.5	592.1	33.3	10.00	10.00	0.00
10,191.6	89.97	180.51	9,775.0	-57.0	591.7	74.8	10.00	10.00	0.00
Start 15037.6 hold at 10191.6 MD									
10,200.0	89.97	180.51	9,775.0	-65.4	591.7	83.2	0.00	0.00	0.00
10,300.0	89.97	180.51	9,775.1	-165.4	590.8	183.1	0.00	0.00	0.00
10,400.0	89.97	180.51	9,775.1	-265.4	589.9	283.0	0.00	0.00	0.00
10,500.0	89.97	180.51	9,775.2	-365.4	589.0	383.0	0.00	0.00	0.00
10,600.0	89.97	180.51	9,775.2	-465.4	588.1	482.9	0.00	0.00	0.00
10,700.0	89.97	180.51	9,775.3	-565.4	587.2	582.8	0.00	0.00	0.00
10,800.0	89.97	180.51	9,775.3	-665.4	586.3	682.7	0.00	0.00	0.00
10,900.0	89.97	180.51	9,775.4	-765.4	585.5	782.7	0.00	0.00	0.00
11,000.0	89.97	180.51	9,775.4	-865.4	584.6	882.6	0.00	0.00	0.00
11,100.0	89.97	180.51	9,775.5	-965.4	583.7	982.5	0.00	0.00	0.00
11,200.0	89.97	180.51	9,775.5	-1,065.4	582.8	1,082.4	0.00	0.00	0.00
11,300.0	89.97	180.51	9,775.6	-1,165.4	581.9	1,182.3	0.00	0.00	0.00
11,400.0	89.97	180.51	9,775.6	-1,265.4	581.0	1,282.3	0.00	0.00	0.00
11,500.0	89.97	180.51	9,775.7	-1,365.4	580.1	1,382.2	0.00	0.00	0.00
11,600.0	89.97	180.51	9,775.7	-1,465.4	579.2	1,482.1	0.00	0.00	0.00
11,700.0	89.97	180.51	9,775.8	-1,565.4	578.4	1,582.0	0.00	0.00	0.00
11,800.0	89.97	180.51	9,775.8	-1,665.4	577.5	1,682.0	0.00	0.00	0.00
11,900.0	89.97	180.51	9,775.9	-1,765.4	576.6	1,781.9	0.00	0.00	0.00
12,000.0	89.97	180.51	9,776.0	-1,865.4	575.7	1,881.8	0.00	0.00	0.00
12,100.0	89.97	180.51	9,776.0	-1,965.4	574.8	1,981.7	0.00	0.00	0.00
12,200.0	89.97	180.51	9,776.1	-2,065.4	573.9	2,081.7	0.00	0.00	0.00
12,300.0	89.97	180.51	9,776.1	-2,165.4	573.0	2,181.6	0.00	0.00	0.00
12,400.0	89.97	180.51	9,776.2	-2,265.4	572.2	2,281.5	0.00	0.00	0.00
12,500.0	89.97	180.51	9,776.2	-2,365.4	571.3	2,381.4	0.00	0.00	0.00
12,600.0	89.97	180.51	9,776.3	-2,465.3	570.4	2,481.4	0.00	0.00	0.00
12,700.0	89.97	180.51	9,776.3	-2,565.3	569.5	2,581.3	0.00	0.00	0.00
12,800.0	89.97	180.51	9,776.4	-2,665.3	568.6	2,681.2	0.00	0.00	0.00
12,900.0	89.97	180.51	9,776.4	-2,765.3	567.7	2,781.1	0.00	0.00	0.00
13,000.0	89.97	180.51	9,776.5	-2,865.3	566.8	2,881.1	0.00	0.00	0.00
13,100.0	89.97	180.51	9,776.5	-2,965.3	566.0	2,981.0	0.00	0.00	0.00
13,200.0	89.97	180.51	9,776.6	-3,065.3	565.1	3,080.9	0.00	0.00	0.00
13,300.0	89.97	180.51	9,776.6	-3,165.3	564.2	3,180.8	0.00	0.00	0.00
13,400.0	89.97	180.51	9,776.7	-3,265.3	563.3	3,280.8	0.00	0.00	0.00
13,500.0	89.97	180.51	9,776.7	-3,365.3	562.4	3,380.7	0.00	0.00	0.00
13,600.0	89.97	180.51	9,776.8	-3,465.3	561.5	3,480.6	0.00	0.00	0.00
13,700.0	89.97	180.51	9,776.9	-3,565.3	560.6	3,580.5	0.00	0.00	0.00
13,800.0	89.97	180.51	9,776.9	-3,665.3	559.8	3,680.5	0.00	0.00	0.00
13,900.0	89.97	180.51	9,777.0	-3,765.3	558.9	3,780.4	0.00	0.00	0.00
14,000.0	89.97	180.51	9,777.0	-3,865.3	558.0	3,880.3	0.00	0.00	0.00
14,100.0	89.97	180.51	9,777.1	-3,965.3	557.1	3,980.2	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 #804H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #804H	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	89.97	180.51	9,777.1	-4,065.3	556.2	4,080.2	0.00	0.00	0.00
14,300.0	89.97	180.51	9,777.2	-4,165.3	555.3	4,180.1	0.00	0.00	0.00
14,400.0	89.97	180.51	9,777.2	-4,265.3	554.4	4,280.0	0.00	0.00	0.00
14,500.0	89.97	180.51	9,777.3	-4,365.3	553.6	4,379.9	0.00	0.00	0.00
14,600.0	89.97	180.51	9,777.3	-4,465.3	552.7	4,479.9	0.00	0.00	0.00
14,700.0	89.97	180.51	9,777.4	-4,565.3	551.8	4,579.8	0.00	0.00	0.00
14,800.0	89.97	180.51	9,777.4	-4,665.3	550.9	4,679.7	0.00	0.00	0.00
14,900.0	89.97	180.51	9,777.5	-4,765.3	550.0	4,779.6	0.00	0.00	0.00
15,000.0	89.97	180.51	9,777.5	-4,865.3	549.1	4,879.5	0.00	0.00	0.00
15,100.0	89.97	180.51	9,777.6	-4,965.2	548.2	4,979.5	0.00	0.00	0.00
15,200.0	89.97	180.51	9,777.6	-5,065.2	547.4	5,079.4	0.00	0.00	0.00
15,300.0	89.97	180.51	9,777.7	-5,165.2	546.5	5,179.3	0.00	0.00	0.00
15,400.0	89.97	180.51	9,777.7	-5,265.2	545.6	5,279.2	0.00	0.00	0.00
15,500.0	89.97	180.51	9,777.8	-5,365.2	544.7	5,379.2	0.00	0.00	0.00
15,600.0	89.97	180.51	9,777.9	-5,465.2	543.8	5,479.1	0.00	0.00	0.00
15,700.0	89.97	180.51	9,777.9	-5,565.2	542.9	5,579.0	0.00	0.00	0.00
15,800.0	89.97	180.51	9,778.0	-5,665.2	542.0	5,678.9	0.00	0.00	0.00
15,900.0	89.97	180.51	9,778.0	-5,765.2	541.2	5,778.9	0.00	0.00	0.00
16,000.0	89.97	180.51	9,778.1	-5,865.2	540.3	5,878.8	0.00	0.00	0.00
16,100.0	89.97	180.51	9,778.1	-5,965.2	539.4	5,978.7	0.00	0.00	0.00
16,200.0	89.97	180.51	9,778.2	-6,065.2	538.5	6,078.6	0.00	0.00	0.00
16,300.0	89.97	180.51	9,778.2	-6,165.2	537.6	6,178.6	0.00	0.00	0.00
16,400.0	89.97	180.51	9,778.3	-6,265.2	536.7	6,278.5	0.00	0.00	0.00
16,500.0	89.97	180.51	9,778.3	-6,365.2	535.8	6,378.4	0.00	0.00	0.00
16,600.0	89.97	180.51	9,778.4	-6,465.2	535.0	6,478.3	0.00	0.00	0.00
16,700.0	89.97	180.51	9,778.4	-6,565.2	534.1	6,578.3	0.00	0.00	0.00
16,800.0	89.97	180.51	9,778.5	-6,665.2	533.2	6,678.2	0.00	0.00	0.00
16,900.0	89.97	180.51	9,778.5	-6,765.2	532.3	6,778.1	0.00	0.00	0.00
17,000.0	89.97	180.51	9,778.6	-6,865.2	531.4	6,878.0	0.00	0.00	0.00
17,100.0	89.97	180.51	9,778.6	-6,965.2	530.5	6,978.0	0.00	0.00	0.00
17,200.0	89.97	180.51	9,778.7	-7,065.2	529.6	7,077.9	0.00	0.00	0.00
17,300.0	89.97	180.51	9,778.7	-7,165.2	528.7	7,177.8	0.00	0.00	0.00
17,400.0	89.97	180.51	9,778.8	-7,265.2	527.9	7,277.7	0.00	0.00	0.00
17,500.0	89.97	180.51	9,778.9	-7,365.2	527.0	7,377.7	0.00	0.00	0.00
17,600.0	89.97	180.51	9,778.9	-7,465.1	526.1	7,477.6	0.00	0.00	0.00
17,700.0	89.97	180.51	9,779.0	-7,565.1	525.2	7,577.5	0.00	0.00	0.00
17,800.0	89.97	180.51	9,779.0	-7,665.1	524.3	7,677.4	0.00	0.00	0.00
17,900.0	89.97	180.51	9,779.1	-7,765.1	523.4	7,777.4	0.00	0.00	0.00
18,000.0	89.97	180.51	9,779.1	-7,865.1	522.5	7,877.3	0.00	0.00	0.00
18,100.0	89.97	180.51	9,779.2	-7,965.1	521.7	7,977.2	0.00	0.00	0.00
18,200.0	89.97	180.51	9,779.2	-8,065.1	520.8	8,077.1	0.00	0.00	0.00
18,300.0	89.97	180.51	9,779.3	-8,165.1	519.9	8,177.1	0.00	0.00	0.00
18,400.0	89.97	180.51	9,779.3	-8,265.1	519.0	8,277.0	0.00	0.00	0.00
18,500.0	89.97	180.51	9,779.4	-8,365.1	518.1	8,376.9	0.00	0.00	0.00
18,600.0	89.97	180.51	9,779.4	-8,465.1	517.2	8,476.8	0.00	0.00	0.00
18,700.0	89.97	180.51	9,779.5	-8,565.1	516.3	8,576.7	0.00	0.00	0.00
18,800.0	89.97	180.51	9,779.5	-8,665.1	515.5	8,676.7	0.00	0.00	0.00
18,900.0	89.97	180.51	9,779.6	-8,765.1	514.6	8,776.6	0.00	0.00	0.00
19,000.0	89.97	180.51	9,779.6	-8,865.1	513.7	8,876.5	0.00	0.00	0.00
19,100.0	89.97	180.51	9,779.7	-8,965.1	512.8	8,976.4	0.00	0.00	0.00
19,200.0	89.97	180.51	9,779.8	-9,065.1	511.9	9,076.4	0.00	0.00	0.00
19,300.0	89.97	180.51	9,779.8	-9,165.1	511.0	9,176.3	0.00	0.00	0.00
19,400.0	89.97	180.51	9,779.9	-9,265.1	510.1	9,276.2	0.00	0.00	0.00
19,500.0	89.97	180.51	9,779.9	-9,365.1	509.3	9,376.1	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #804H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #804H	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	89.97	180.51	9,780.0	-9,465.1	508.4	9,476.1	0.00	0.00	0.00
19,700.0	89.97	180.51	9,780.0	-9,565.1	507.5	9,576.0	0.00	0.00	0.00
19,800.0	89.97	180.51	9,780.1	-9,665.1	506.6	9,675.9	0.00	0.00	0.00
19,900.0	89.97	180.51	9,780.1	-9,765.1	505.7	9,775.8	0.00	0.00	0.00
20,000.0	89.97	180.51	9,780.2	-9,865.1	504.8	9,875.8	0.00	0.00	0.00
20,100.0	89.97	180.51	9,780.2	-9,965.1	503.9	9,975.7	0.00	0.00	0.00
20,200.0	89.97	180.51	9,780.3	-10,065.0	503.1	10,075.6	0.00	0.00	0.00
20,300.0	89.97	180.51	9,780.3	-10,165.0	502.2	10,175.5	0.00	0.00	0.00
20,400.0	89.97	180.51	9,780.4	-10,265.0	501.3	10,275.5	0.00	0.00	0.00
20,500.0	89.97	180.51	9,780.4	-10,365.0	500.4	10,375.4	0.00	0.00	0.00
20,600.0	89.97	180.51	9,780.5	-10,465.0	499.5	10,475.3	0.00	0.00	0.00
20,700.0	89.97	180.51	9,780.5	-10,565.0	498.6	10,575.2	0.00	0.00	0.00
20,800.0	89.97	180.51	9,780.6	-10,665.0	497.7	10,675.2	0.00	0.00	0.00
20,900.0	89.97	180.51	9,780.6	-10,765.0	496.9	10,775.1	0.00	0.00	0.00
21,000.0	89.97	180.51	9,780.7	-10,865.0	496.0	10,875.0	0.00	0.00	0.00
21,100.0	89.97	180.51	9,780.8	-10,965.0	495.1	10,974.9	0.00	0.00	0.00
21,200.0	89.97	180.51	9,780.8	-11,065.0	494.2	11,074.9	0.00	0.00	0.00
21,300.0	89.97	180.51	9,780.9	-11,165.0	493.3	11,174.8	0.00	0.00	0.00
21,400.0	89.97	180.51	9,780.9	-11,265.0	492.4	11,274.7	0.00	0.00	0.00
21,500.0	89.97	180.51	9,781.0	-11,365.0	491.5	11,374.6	0.00	0.00	0.00
21,600.0	89.97	180.51	9,781.0	-11,465.0	490.7	11,474.6	0.00	0.00	0.00
21,700.0	89.97	180.51	9,781.1	-11,565.0	489.8	11,574.5	0.00	0.00	0.00
21,800.0	89.97	180.51	9,781.1	-11,665.0	488.9	11,674.4	0.00	0.00	0.00
21,900.0	89.97	180.51	9,781.2	-11,765.0	488.0	11,774.3	0.00	0.00	0.00
22,000.0	89.97	180.51	9,781.2	-11,865.0	487.1	11,874.3	0.00	0.00	0.00
22,100.0	89.97	180.51	9,781.3	-11,965.0	486.2	11,974.2	0.00	0.00	0.00
22,200.0	89.97	180.51	9,781.3	-12,065.0	485.3	12,074.1	0.00	0.00	0.00
22,300.0	89.97	180.51	9,781.4	-12,165.0	484.5	12,174.0	0.00	0.00	0.00
22,400.0	89.97	180.51	9,781.4	-12,265.0	483.6	12,274.0	0.00	0.00	0.00
22,500.0	89.97	180.51	9,781.5	-12,365.0	482.7	12,373.9	0.00	0.00	0.00
22,600.0	89.97	180.51	9,781.5	-12,465.0	481.8	12,473.8	0.00	0.00	0.00
22,700.0	89.97	180.51	9,781.6	-12,564.9	480.9	12,573.7	0.00	0.00	0.00
22,800.0	89.97	180.51	9,781.6	-12,664.9	480.0	12,673.6	0.00	0.00	0.00
22,900.0	89.97	180.51	9,781.7	-12,764.9	479.1	12,773.6	0.00	0.00	0.00
23,000.0	89.97	180.51	9,781.8	-12,864.9	478.2	12,873.5	0.00	0.00	0.00
23,100.0	89.97	180.51	9,781.8	-12,964.9	477.4	12,973.4	0.00	0.00	0.00
23,200.0	89.97	180.51	9,781.9	-13,064.9	476.5	13,073.3	0.00	0.00	0.00
23,300.0	89.97	180.51	9,781.9	-13,164.9	475.6	13,173.3	0.00	0.00	0.00
23,400.0	89.97	180.51	9,782.0	-13,264.9	474.7	13,273.2	0.00	0.00	0.00
23,500.0	89.97	180.51	9,782.0	-13,364.9	473.8	13,373.1	0.00	0.00	0.00
23,600.0	89.97	180.51	9,782.1	-13,464.9	472.9	13,473.0	0.00	0.00	0.00
23,700.0	89.97	180.51	9,782.1	-13,564.9	472.0	13,573.0	0.00	0.00	0.00
23,800.0	89.97	180.51	9,782.2	-13,664.9	471.2	13,672.9	0.00	0.00	0.00
23,900.0	89.97	180.51	9,782.2	-13,764.9	470.3	13,772.8	0.00	0.00	0.00
24,000.0	89.97	180.51	9,782.3	-13,864.9	469.4	13,872.7	0.00	0.00	0.00
24,100.0	89.97	180.51	9,782.3	-13,964.9	468.5	13,972.7	0.00	0.00	0.00
24,200.0	89.97	180.51	9,782.4	-14,064.9	467.6	14,072.6	0.00	0.00	0.00
24,300.0	89.97	180.51	9,782.4	-14,164.9	466.7	14,172.5	0.00	0.00	0.00
24,400.0	89.97	180.51	9,782.5	-14,264.9	465.8	14,272.4	0.00	0.00	0.00
24,500.0	89.97	180.51	9,782.5	-14,364.9	465.0	14,372.4	0.00	0.00	0.00
24,600.0	89.97	180.51	9,782.6	-14,464.9	464.1	14,472.3	0.00	0.00	0.00
24,700.0	89.97	180.51	9,782.7	-14,564.9	463.2	14,572.2	0.00	0.00	0.00
24,800.0	89.97	180.51	9,782.7	-14,664.9	462.3	14,672.1	0.00	0.00	0.00
24,900.0	89.97	180.51	9,782.8	-14,764.9	461.4	14,772.1	0.00	0.00	0.00

ConocoPhillips

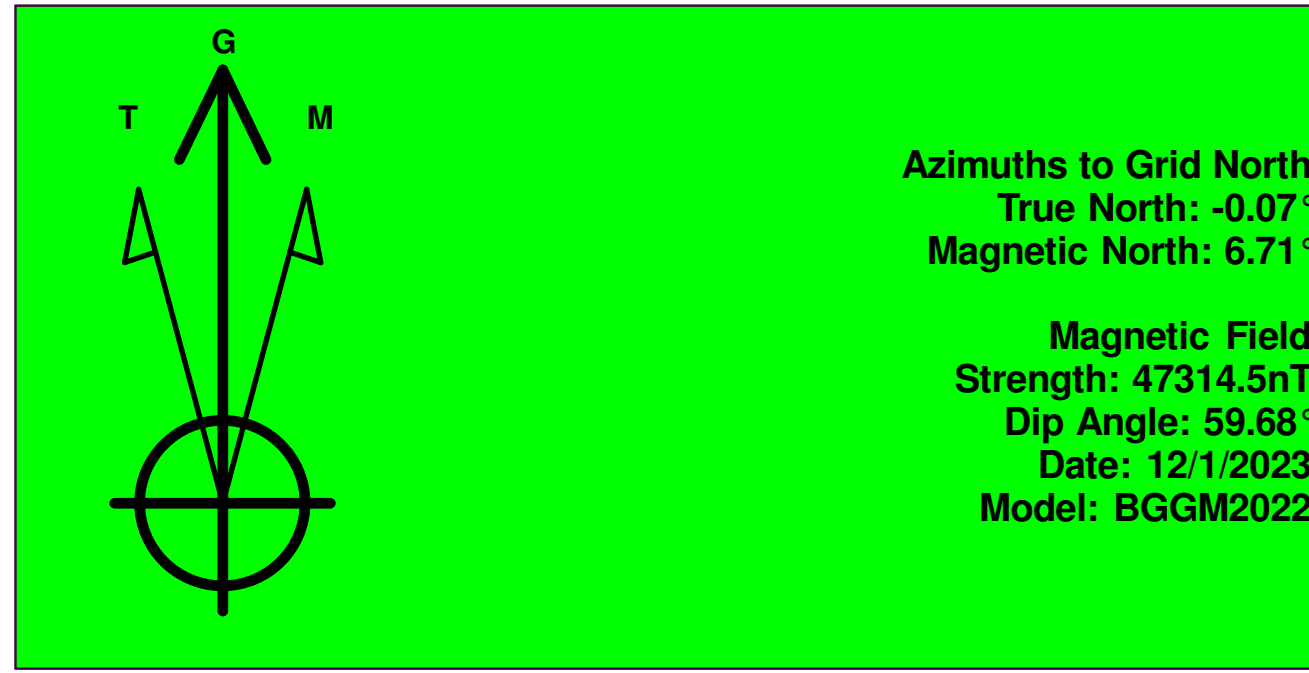
Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #804H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3150.6ft @ 3182.6usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #804H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
25,000.0	89.97	180.51	9,782.8	-14,864.9	460.5	14,872.0	0.00	0.00	0.00	
25,100.0	89.97	180.51	9,782.9	-14,964.9	459.6	14,971.9	0.00	0.00	0.00	
25,200.0	89.97	180.51	9,782.9	-15,064.9	458.8	15,071.8	0.00	0.00	0.00	
25,229.2	89.97	180.51	9,782.9	-15,094.0	458.5	15,101.0	0.00	0.00	0.00	
Start 130.0 hold at 25229.2 MD										
25,300.0	89.97	180.51	9,783.0	-15,164.8	457.9	15,171.8	0.00	0.00	0.00	
25,359.2	89.97	180.51	9,783.0	-15,224.0	457.3	15,230.9	0.00	0.00	0.00	
TD at 25359.2										

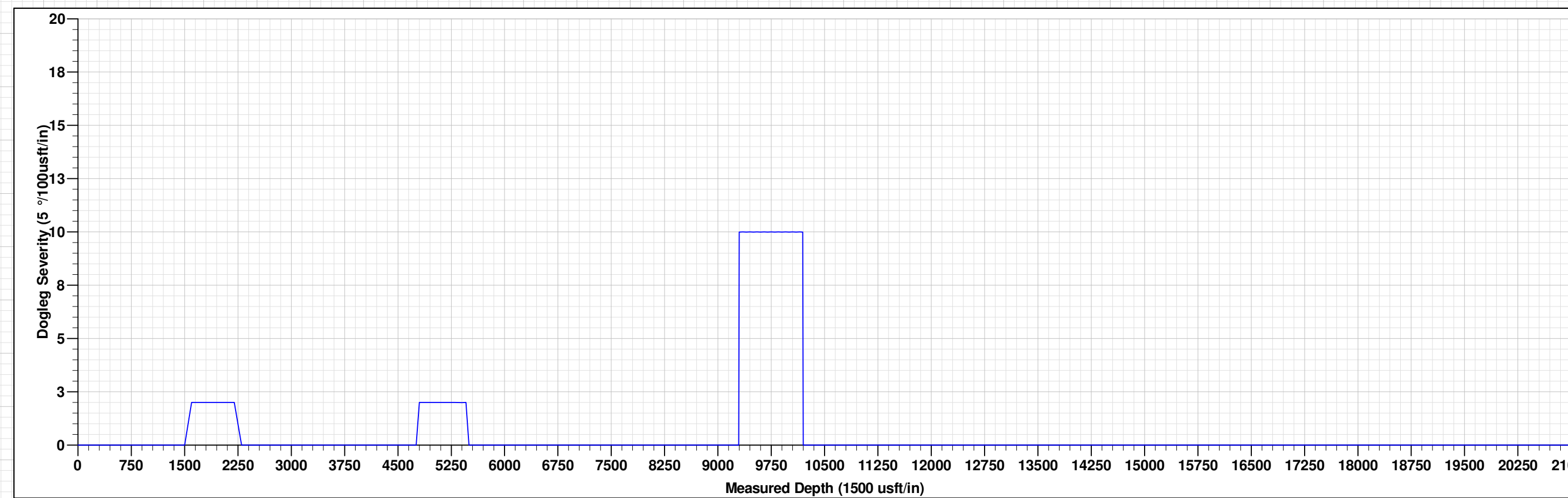
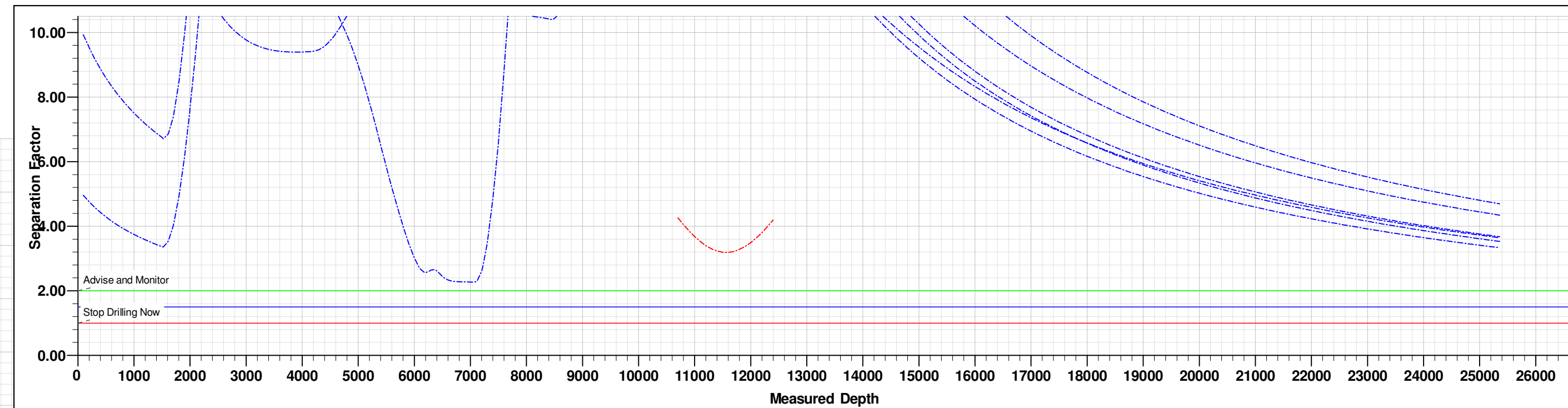
Design Targets										
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
VT (FLAMING SNAIL FE - plan hits target center - Circle (radius 25.0)	0.00	0.00	9,202.0	515.6	596.8	403,044.10	542,663.80	32° 6' 28.834 N	104° 11' 43.959 W	
FTP (FLAMING SNAIL F - plan misses target center by 70.5usft at 9920.6usft MD (9712.0 TVD, 203.9 N, 594.0 E) - Circle (radius 50.0)	0.00	0.00	9,775.0	235.6	594.3	402,764.10	542,661.30	32° 6' 26.063 N	104° 11' 43.992 W	
LTP (FLAMING SNAIL F - plan hits target center - Point	0.00	0.01	9,782.9	-15,094.0	458.5	387,434.50	542,525.50	32° 3' 54.354 N	104° 11' 45.798 W	
PBHL (FLAMING SNAIL - plan misses target center by 0.1usft at 25359.2usft MD (9783.0 TVD, -15224.0 N, 457.3 E) - Rectangle (sides W100.0 H15,460.2 D20.0)	0.03	0.51	9,783.0	-15,224.0	457.4	387,304.50	542,524.40	32° 3' 53.068 N	104° 11' 45.812 W	

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
1,500.0	1,500.0	0.0	0.0	Start Build 2.00	
2,200.2	2,193.2	55.7	64.4	Start 2555.5 hold at 2200.2 MD	
4,755.7	4,672.8	459.9	532.4	Start Drop -2.00	
5,455.9	5,366.0	515.6	596.8	Start 3836.0 hold at 5455.9 MD	
9,291.9	9,202.0	515.6	596.8	Start DLS 10.00 TFO 180.51	
10,191.6	9,775.0	-57.0	591.7	Start 15037.6 hold at 10191.6 MD	
25,229.2	9,782.9	-15,094.0	458.5	Start 130.0 hold at 25229.2 MD	
25,359.2	9,783.0	-15,224.0	457.3	TD at 25359.2	

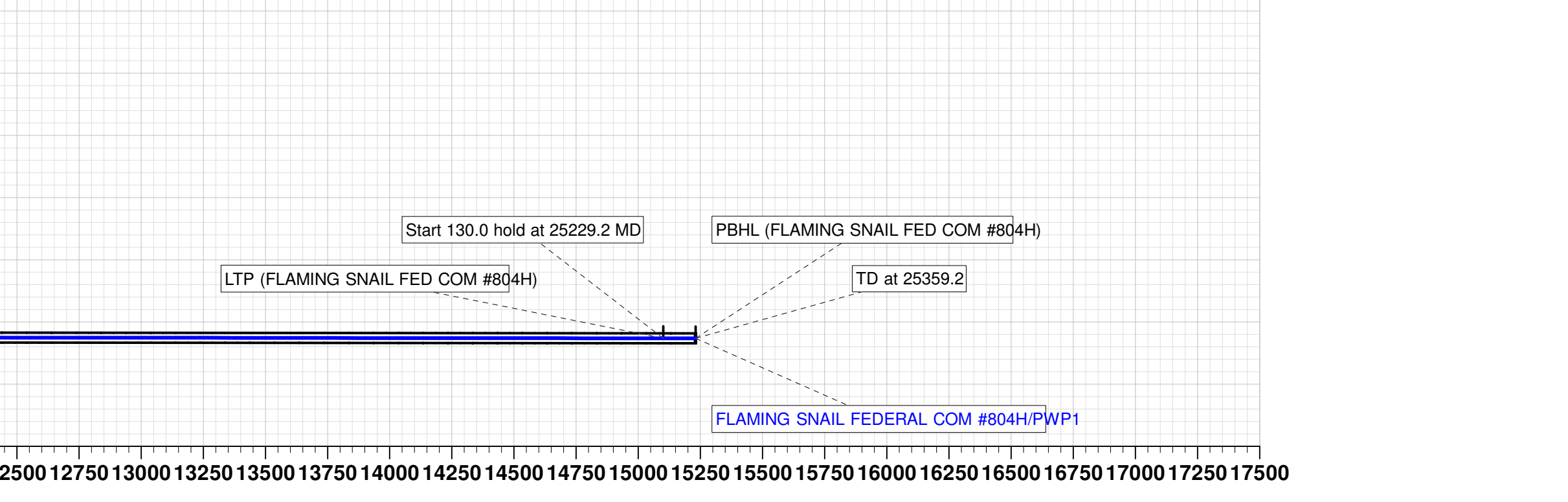
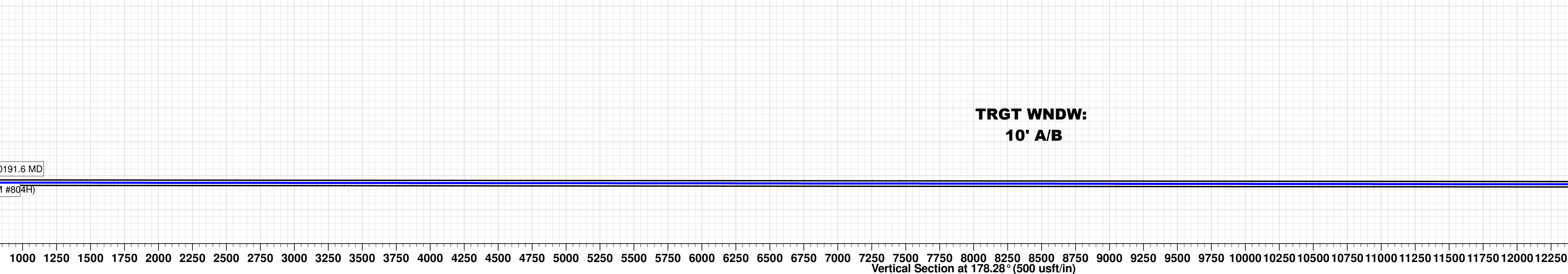
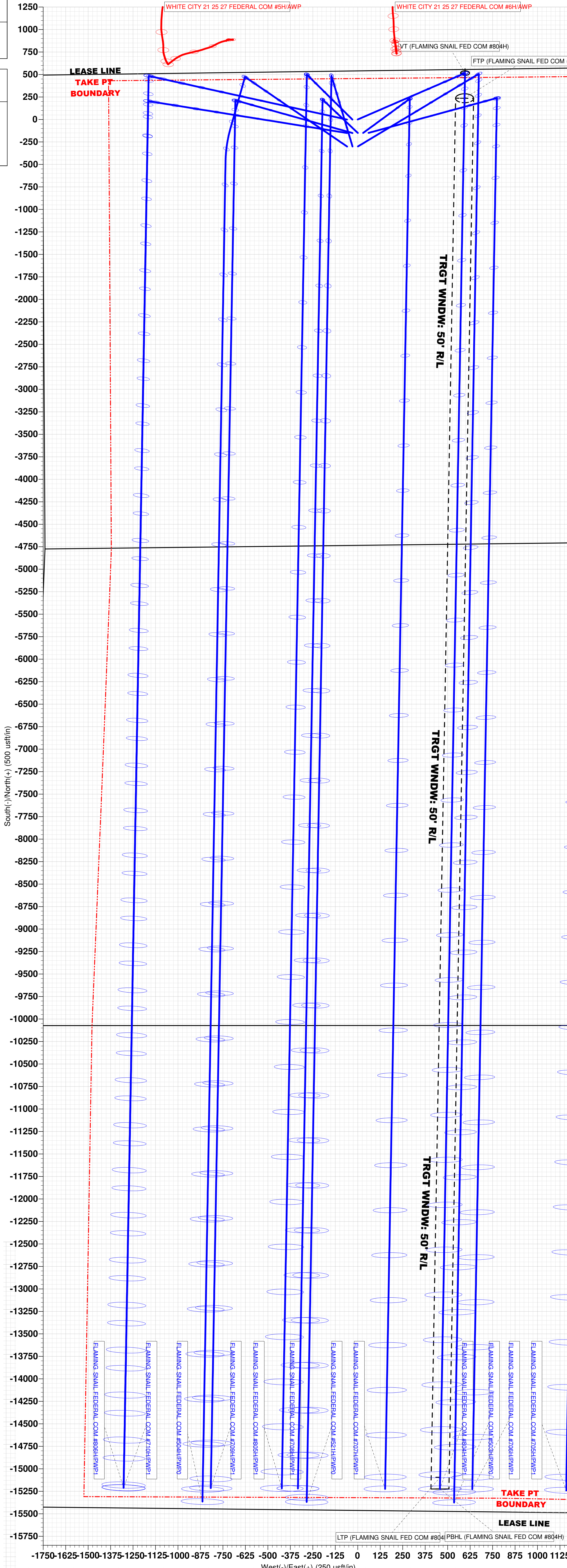
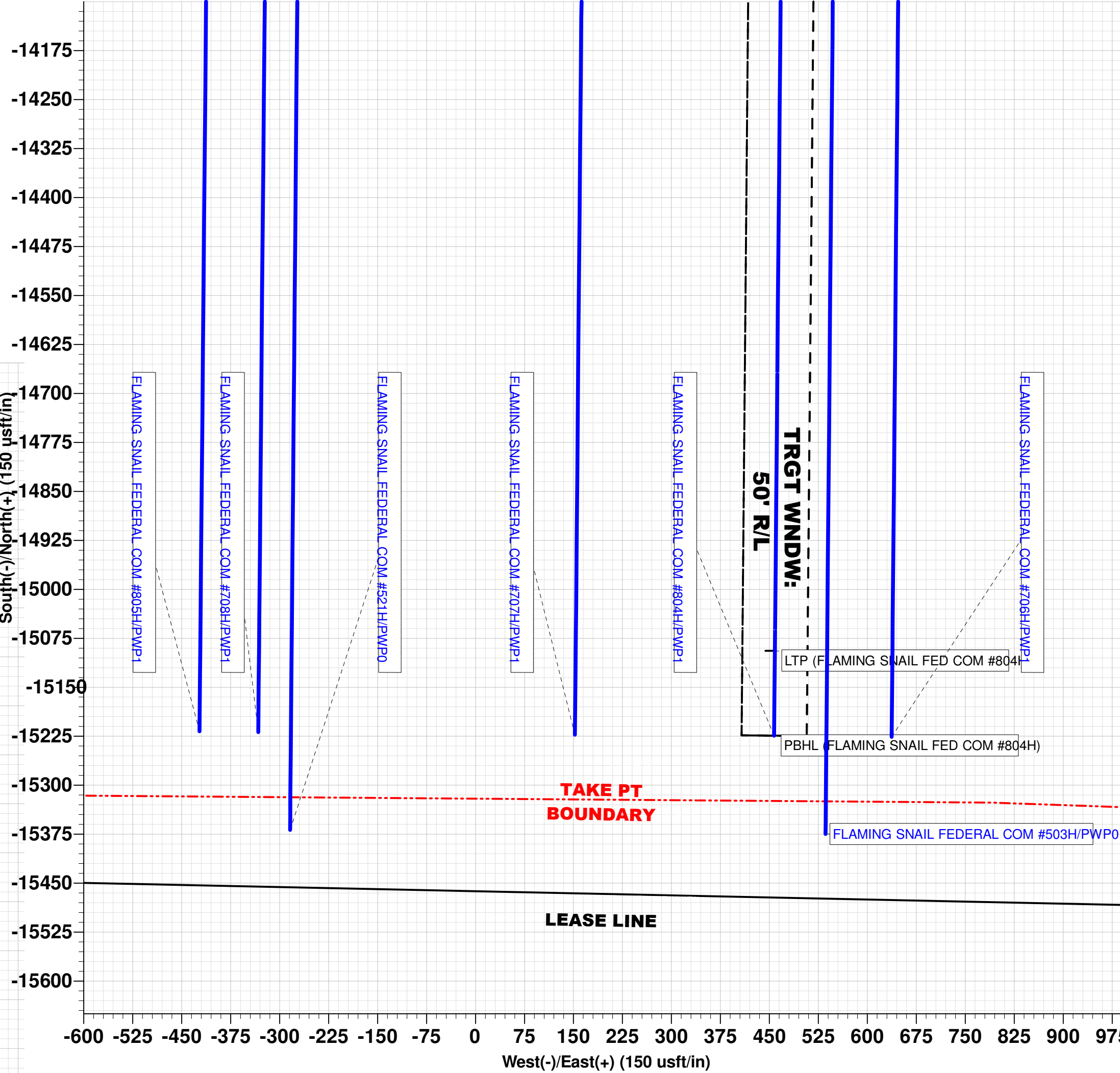
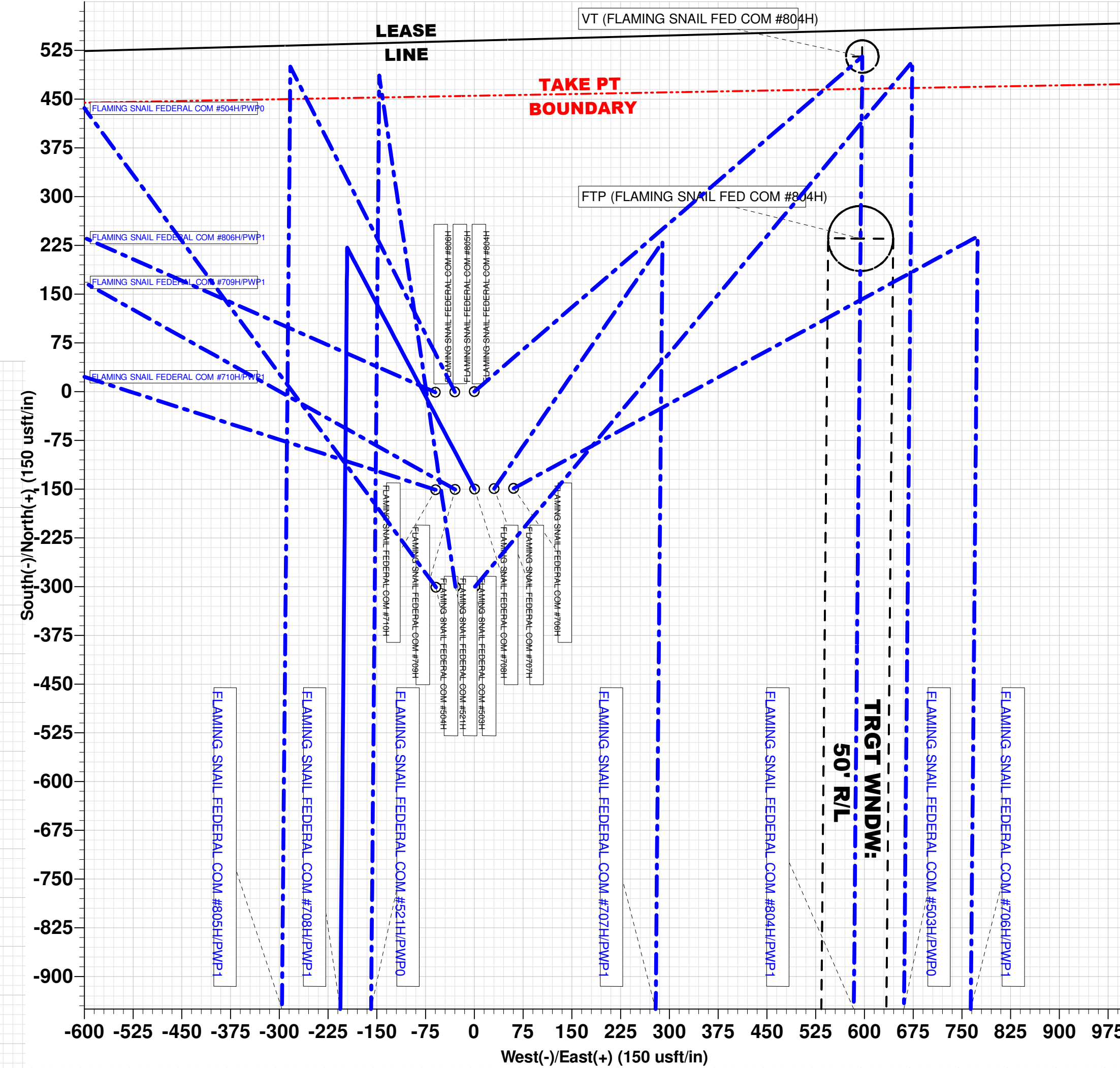
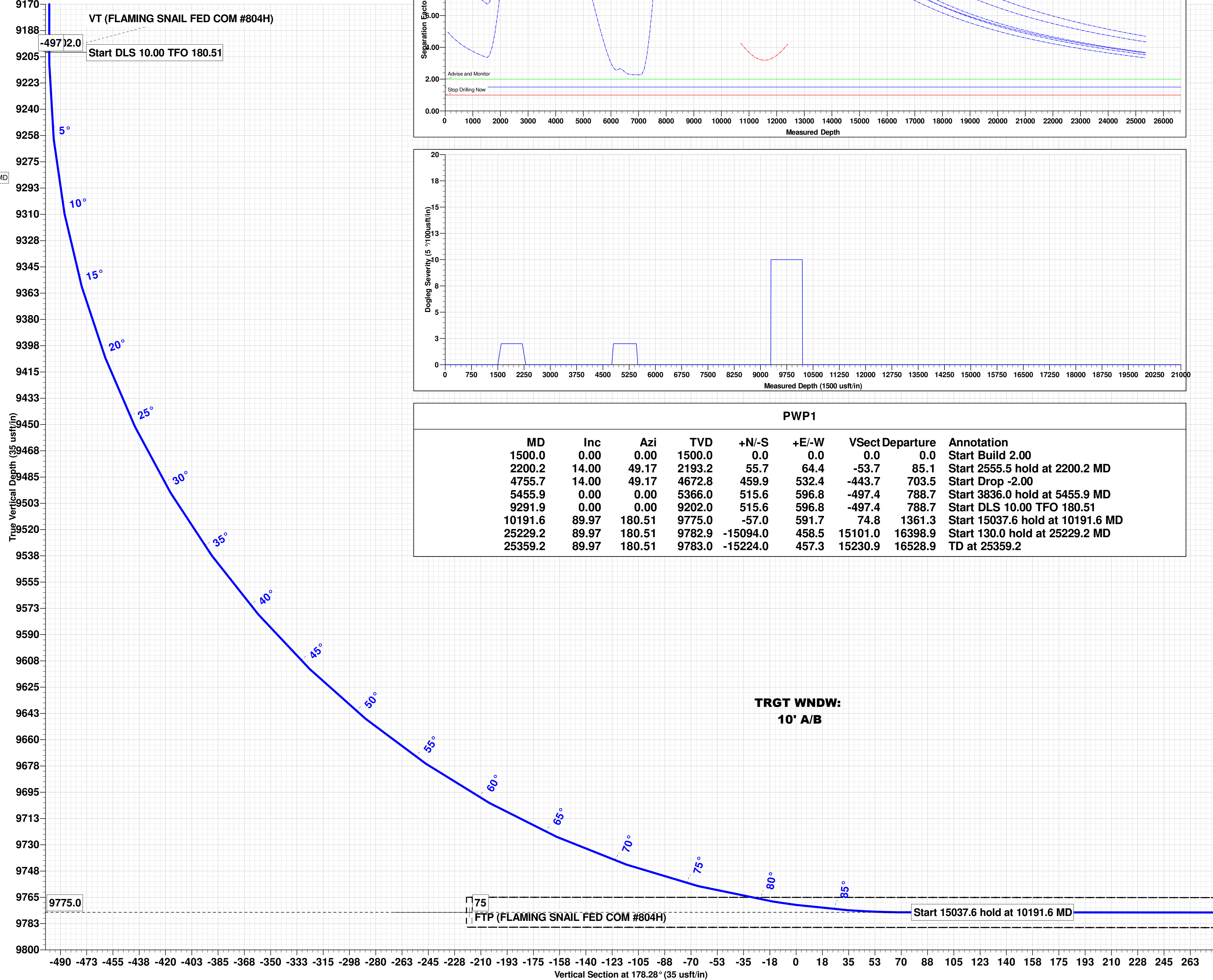


WELL DETAILS: FLAMING SNAIL FEDERAL COM #804H					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	402528.50	542067.00	32° 6' 23.739 N	104° 11' 50.905 W

DESIGN TARGET DETAILS					
Name	TVD	+N/-S	+E/-W	Northing	Easting
VT (FLAMING SNAIL FED COM #804H)	9202.0	515.6	596.8	403044.10	542863.80
FTP (FLAMING SNAIL FED COM #804H)	9775.0	235.6	594.3	402764.10	542661.30
LTP (FLAMING SNAIL FED COM #804H)	9782.9	-15094.0	458.5	387434.50	542525.50
PBHL (FLAMING SNAIL FED COM #804H)	9783.0	-15224.0	457.4	387304.50	542524.40
Shape				Circle (Radius: 25.0)	
				Circle (Radius: 50.0)	
				Point	
				Rectangle (Sides: L15460.2 W100.0)	



PWP1									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Departure	Annotation	
1500.0	0.00	0.00	1500.0	0.0	0.0	0.0	0.0	Start Build 2.00	
2200.2	14.00	49.17	2193.2	55.7	64.4	-53.7	85.1	Start 2555.5 hold at 2200.2 MD	
4755.7	14.00	49.17	4672.8	459.9	532.4	-443.7	703.5	Start Drop -2.00	
5455.9	0.00	0.00	5366.0	515.6	596.8	-497.4	788.7	Start 3836.0 hold at 5455.9 MD	
9291.9	0.00	0.00	9202.0	515.6	596.8	-497.4	788.7	Start DLS 10.00 TFO 180.51	
10191.6	89.97	180.51	9775.0	-57.0	591.7	74.8	1361.3	Start 15037.6 hold at 10191.6 MD	
25229.2	89.97	180.51	9782.9	-15094.0	458.5	15101.0	16398.9	Start 130.0 hold at 25229.2 MD	
25359.2	89.97	180.51	9783.0	-15224.0	457.3	15230.9	16528.9	TD at 25359.2	



PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	COG
LEASE NO.:	NMNM92167
LOCATION:	Section 28, T.25 S, R.27 E., NMPM
COUNTY:	Eddy County, New Mexico
WELL NAME & NO.:	Flaming Snail Fed Com 804H
SURFACE HOLE FOOTAGE:	557'/N & 1649'/W
BOTTOM HOLE FOOTAGE:	200'/S & 2310'/W

COA

H₂S	☐ Yes	☒ No		
Potash / WIPP	☒ None	☐ Secretary	☐ R-111-P	☐ WIPP
Cave / Karst	☐ Low	☐ Medium	☒ High	☐ Critical
Wellhead	☐ Conventional	☒ Multibowl	☐ Both	☐ Diverter
Cementing	☐ Primary Squeeze	☐ Cont. Squeeze	☐ EchoMeter	☐ DV Tool
Special Req	☐ Break Testing	☐ Water Disposal	☒ COM	☐ Unit
Variance	☒ Flex Hose	☐ Casing Clearance	☐ Pilot Hole	☐ Capitan Reef
Variance	☐ Four-String	☐ Offline Cementing	☐ Fluid-Filled	☐ Open Annulus
☐ Batch APD / Sundry				

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 must meet all requirements from **43 CFR 3176**, 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, above the salt, and below usable fresh water) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to

- include the lead cement)
- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The minimum required fill of cement behind the 7-5/8 inch intermediate casing is:
- Cement to surface. If cement does not circulate see B.1.a, c-d above. **Excess calculates to 18%. Additional cement maybe required.**

Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst.

Option 2:

Operator is approved to use a DV Tool, the depth may be adjusted as long as the cement is changed proportionally. Operator shall contact BLM before proceeding with the DV Tool operation.

- ❖ 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 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 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.
- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in 43 CFR 3171 and 3172.
- 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 **43 CFR part 3170 Subpart 3172** 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 **43 CFR part 3170 Subpart 3172** 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 **43 CFR part 3170 Subpart 3172** 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 **43 CFR part 3170 Subpart 3172**.

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.

ZS 8/2/2023

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 260977

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 260977
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Notify OCD 24 hours prior to casing & cement	9/11/2023
ward.rikala	Will require a File As Drilled C-102 and a Directional Survey with the C-104	9/11/2023
ward.rikala	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string	9/11/2023
ward.rikala	Cement is required to circulate on both surface and intermediate1 strings of casing	9/11/2023
ward.rikala	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system	9/11/2023